

## ASFA THESAURUS

AAS

USE: **Absorption spectroscopy**

Abalone fisheries

USE: **Gastropod fisheries**

**Abdomen**

UF: Peritoneum

BT: Body regions

RT: Digestive system

Abiotic diseases

USE: **Environmental diseases**

**Abiotic factors**

SN: Before 1982 search

ENVIRONMENTAL FACTORS

UF: Density-independent factors

BT: Environmental factors

RT: Dissolved oxygen

Light

Salinity

Water temperature

**Ablation**

SN: Use only for processes

resulting in removal and loss

of ice from glaciers, floating

ice, etc. For organ ablation

use ORGAN REMOVAL

RT: Air-ice interface

Calving

Evaporation

Glaciers

Ice accretion

Ice caps

Ice islands

Ice melting

Ice shelves

Ice volume

Icebergs

Sublimation

Abnormal organisms

USE: **Abnormalities**

**Abnormalities**

SN: Restricted to living organisms

UF: Abnormal organisms

Body deformations

Malformations

NT: Genetic abnormalities

**Absolute age**

UF: Actual age

BT: Age

RT: Radiometric dating

Absolute food deficiency

USE: **Starvation**

**Absolute humidity**

BT: Humidity

Absolute velocity

USE: **Velocity**

**Absolute vorticity**

BT: Vorticity

RT: Conservation of vorticity

Coriolis parameters

Relative vorticity

**Absorptance**

BT: Optical properties

RT: Absorption coefficient

Absorption spectra

Light absorption

Wave motion

Absorption (chemistry)

USE: **Sorption**

Absorption (food)

USE: **Food absorption**

Absorption (light)

USE: **Light absorption**

**Absorption (physics)**

NT: Light absorption

Sound absorption

RT: Amplitude

Attenuation

Reflection

Transmission

Wave motion

Absorption (sound)

USE: **Sound absorption**

**Absorption coefficient**

SN: Before 1982 search also

ABSORPTIVITY

UF: Absorptivity

RT: Absorptance

Emissivity

Extinction coefficient

Light absorption

Light penetration

Absorption loss

USE: **Transmission loss**

**Absorption spectra**

BT: Spectra

RT: Absorptance

Absorption spectroscopy

Light absorption

Light penetration

Turbidity

Absorption spectrometry

USE: **Absorption spectroscopy**

**Absorption spectroscopy**

UF: AAS

Absorption spectrometry

Atomic absorption spectroscopy

BT: Spectroscopic techniques

RT: Absorption spectra

Absorptivity

USE: **Absorption coefficient**

**Abstracts**

UF: Summaries

RT: Documents

**Abundance**

SN: For population studies use

POPULATION NUMBER if

given in number, or BIOMASS

if given in weight

UF: Relative abundance

RT: Availability

Biomass

Depletion

Population number

Quantitative distribution

Abundance (chemical)

USE: **Chemical composition**

**Abyssal circulation**

SN: World-wide deep circulation of  
ocean basins

BT: Ocean circulation

RT: Abyssal currents

Bottom topography effects

Abyssal cones

USE: **Deep-sea fans**

**Abyssal currents**

BT: Bottom currents

RT: Abyssal circulation

Benthic currents

Abyssal environment

USE: **Abyssal zone**

**Abyssal hills**

BT: Submarine features

**Abyssal plains**

BT: Submarine features

RT: Continental rise

Ocean basins

Ocean floor

Plains

Seachannels

## ASFA THESAURUS

### **Abyssal zone**

SN: Zone below 1000 m depth  
 UF: Abyssal environment  
 RT: Abyssobenthic zone  
   Abyssopelagic zone  
   Pelagic environment

### **Abyssobenthic zone**

SN: Benthic regions below 1000 m depth  
 BT: Benthic environment  
 RT: Abyssal zone  
   Abyssopelagic zone

### **Abyssopelagic zone**

SN: Pelagic regions below 1000 m depth  
 BT: Oceanic province  
 RT: Abyssal zone  
   Abyssobenthic zone  
   Aphotic zone

### **Acceleration**

NT: Coriolis acceleration  
 RT: Accelerometers  
   Centrifugal force  
   Centripetal force  
   Coriolis force  
   Kinematics  
   Velocity

### **Accelerometers**

BT: Instruments  
 RT: Acceleration  
   Gravity meters  
   Seismometers  
   Transducers  
   Wave recorders

### **Acceptability**

RT: Acceptance tests  
   Evaluation  
   Inspection  
   Performance assessment  
   Quality  
   Reliability  
   Standards  
   Testing

### **Acceptance tests**

BT: Tests  
 RT: Acceptability  
   Quality control

### **Access**

NT: Public access

### **Accessory respiratory organs**

USE: **Respiratory organs**

### **Accident prevention**

BT: Health and safety  
 RT: Accidents  
   Protection  
   Safety devices  
   Safety regulations

### **Accidents**

UF: Disasters (man-made)  
   Man-made disasters  
 NT: Chemical spills  
   Collisions  
   Diving accidents  
   Marine accidents  
   Oil spills  
   Radiation leaks  
 RT: Accident prevention  
   Damage  
   Disasters  
   Emergencies  
   Hazards  
   Injuries  
   Search and rescue

### **Acclimation**

SN: Adjustment of aquatic  
   Organisms to conditions in the laboratory  
 BT: Adaptations  
 RT: Acclimatization  
   Captivity

### **Acclimatization**

SN: Adjustment of organisms to conditions in the aquatic environment  
 UF: Adaptations (physiological)  
   Physiological adaptations  
 BT: Adaptations  
 RT: Acclimation  
   Captivity

### **Accommodation**

UF: Living quarters  
 RT: Offshore structures  
   Underwater habitats

### **Accreting plate boundaries**

USE: **Diverging plate boundaries**

### **Accretion**

UF: Aggradation  
 NT: Beach accretion  
   Crustal accretion  
   Ice accretion  
 RT: Sedimentation

### **Accumulation**

NT: Bioaccumulation  
   Ion accumulation  
 RT: Fate

### **Accumulation of ions**

USE: **Ion accumulation**

### **Accumulation of sediments**

USE: **Sedimentation**

### **Accuracy**

RT: Calibration  
   Measurement  
   Reliability  
   Resolution  
   Tests

### **Acetate**

BT: Carboxylic acid salts

### **Acetone**

BT: Ketones

### **Acetylcholine**

USE: **Neurotransmitters**

### **Acetylene**

USE: **Ethyne**

### **Acid precipitation**

USE: **Acid rain**

### **Acid rain**

SN: Precipitation having a pH  
   Below 5.6 due to high concentrations of sulphate, nitrate, ammonium or other anions  
 UF: Acid precipitation  
 BT: Rain  
 RT: Acidity  
   Freshwater pollution

### **Acidification**

RT: Acidity  
   Acids  
   pH

### **Acidity**

BT: Chemical properties  
 RT: Acid rain  
   Acidification  
   Acids  
   Alkalinity  
   Buffers  
   pH  
   pH effects

### **Acids**

SN: Use of a more specific term is recommended  
 NT: Inorganic acids  
   Organic acids  
 RT: Acidification  
   Acidity

## ASFA THESAURUS

Acoustic analogs  
USE: **Acoustic models**

**Acoustic arrays**  
BT: Arrays  
NT: Sonar arrays  
    Transducer arrays  
    Transponder arrays  
RT: Acoustic equipment  
    Seismic arrays

Acoustic baffles  
USE: **Acoustic insulation**

**Acoustic beacons**  
BT: Navigational aids  
RT: Acoustic equipment  
    Acoustic navigation  
    Acoustic transponders  
    Dynamic positioning  
    Positioning systems

Acoustic cavitation  
USE: **Cavitation**

Acoustic channels  
USE: **Sound channels**

**Acoustic command systems**  
RT: Acoustic equipment  
    Acoustic telemetry  
    Acoustic transponders  
    Remote control

**Acoustic current meters**  
BT: Current meters  
RT: Eulerian current measurement

**Acoustic data**  
BT: Data

Acoustic detection  
USE: **Sonar detection**

Acoustic devices  
USE: **Acoustic equipment**

Acoustic direction finding  
USE: **Echo ranging**

Acoustic distance measurement  
USE: **Echo ranging**

Acoustic doppler sonar  
USE: **Doppler sonar**

**Acoustic emission**  
RT: Nondestructive testing

Acoustic emission testing  
USE: **Nondestructive testing**

**Acoustic equipment**  
UF: Acoustic devices  
    Acoustic systems  
    Instruments (acoustic)  
BT: Equipment  
NT: Acoustic transducers  
    Acoustic transponders  
    Echosounders  
    Electroacoustic devices  
    Net sounders  
    Sound generators  
RT: Acoustic arrays  
    Acoustic beacons  
    Acoustic command systems  
    Acoustic tracking systems  
    Acoustics  
    Echo integrators  
    Electronic equipment  
    Fish counters  
    Sonar  
    Sonar receivers  
    Sonar targets  
    Sonic tags  
    Sound recorders  
    Sound waves

Acoustic generators  
USE: **Sound generators**

**Acoustic holography**  
BT: Acoustic imagery  
    Holography  
RT: Acoustic tomography

**Acoustic imagery**  
UF: Acoustic sensing  
BT: Imagery  
NT: Acoustic holography  
    Acoustic tomography  
    Sonar imagery  
RT: Acoustic images  
    Sodar

**Acoustic images**  
RT: Acoustic imagery

**Acoustic impedance**  
BT: Impedance  
RT: Acoustic properties  
    Sound velocity

**Acoustic insulation**  
UF: Acoustic baffles  
    Baffles (sound)  
    Sound baffles  
    Sound insulation  
BT: Insulating materials  
RT: Acoustic properties  
    Noise reduction  
    Sound absorption  
    Suppressors

Acoustic intensity  
USE: **Sound intensity**

Acoustic measurement  
USE: **Sound measurement**

**Acoustic models**  
UF: Acoustic analogs  
BT: Analog models  
RT: Acoustics

**Acoustic navigation**  
UF: Sonar navigation  
    Transponder navigation  
BT: Navigation  
NT: Doppler navigation  
RT: Acoustic beacons  
    Navigation underwater  
    Sonar

Acoustic pingers  
USE: **Pingers**

**Acoustic properties**  
UF: Sound properties  
BT: Physical properties  
RT: Acoustic impedance  
    Acoustic insulation  
    Acoustics  
    Cavitation  
    Sound attenuation  
    Sound intensity  
    Sound velocity

Acoustic radiators  
USE: **Sound generators**

Acoustic release mechanisms  
USE: **Release mechanisms**

Acoustic sensing  
USE: **Acoustic imagery**

Acoustic sizing techniques  
USE: **Fish sizing**

Acoustic spectra  
USE: **Sound spectra**

Acoustic stratigraphy  
USE: **Seismic stratigraphy**

Acoustic surveys  
USE: **Echo surveys**

Acoustic surveys (atmosphere)  
USE: **Sodar**

Acoustic systems  
USE: **Acoustic equipment**

## ASFA THESAURUS

Acoustic tags  
USE: **Sonic tags**

**Acoustic telemetry**  
BT: Telemetry  
RT: Acoustic command systems  
Acoustic tracking systems

**Acoustic tomography**  
BT: Acoustic imagery  
RT: Acoustic holography

Acoustic tracking  
USE: **Tracking**

**Acoustic tracking systems**  
UF: Underwater tracking systems  
BT: Detectors  
RT: Acoustic equipment  
Acoustic telemetry  
Active sonar  
Echo ranging  
Navigation underwater

**Acoustic transducers**  
BT: Acoustic equipment  
Transducers  
NT: Hydrophones  
Microphones  
Sonar transducers  
RT: Electroacoustic devices  
Piezoelectric transducers

**Acoustic transponders**  
UF: Beacons (transponders)  
Sonar transponders  
BT: Acoustic equipment  
Transponders  
RT: Acoustic beacons  
Acoustic command systems  
Swallow floats

Acoustic wave absorption  
USE: **Sound absorption**

Acoustic wave attenuation  
USE: **Sound attenuation**

Acoustic wave diffraction  
USE: **Sound diffraction**

Acoustic wave dispersion  
USE: **Sound dispersion**

Acoustic wave propagation  
USE: **Sound propagation**

Acoustic wave reflection  
USE: **Sound reflection**

Acoustic wave refraction  
USE: **Sound refraction**

Acoustic wave scattering  
USE: **Sound scattering**

Acoustic wave transmission  
USE: **Sound transmission**

Acoustic waves  
USE: **Sound waves**

**Acoustics**  
UF: Underwater acoustics  
BT: Physics  
NT: Bioacoustics  
Ultrasonics  
RT: Acoustic equipment  
Acoustic models  
Acoustic properties  
Echoes  
Sound  
Sound channels  
Sound recorders  
Sound waves

**Acquisition**  
NT: Data acquisition  
RT: Purchasing

**Acronyms**  
RT: Terminology

**Acrylic acid**  
BT: Organic acids

**Acrylics**  
BT: Plastics

**Actin**  
SN: Before 1982 search PROTEINS  
BT: Proteins  
RT: Muscles

**Actinide compounds**  
BT: Chemical compounds  
NT: Thorium compounds  
Uranium compounds  
RT: Actinides

**Actinides**  
BT: Rare earths  
NT: Actinium  
Americium  
Californium  
Curium  
Neptunium  
Plutonium  
Protactinium  
Thorium  
Uranium

RT: Actinide compounds  
Transition elements

**Actinium**  
BT: Actinides  
RT: Radioactivity

**Actinometers**  
UF: Pyranometers  
Pyrgeometers  
BT: Radiometers  
RT: Meteorological instruments

Activated sludge  
USE: **Sludge**

**Activation analysis**  
BT: Analytical techniques  
NT: Neutron activation analysis

**Active margins**  
UF: Convergent margins  
Seismic margins  
BT: Continental margins  
RT: Earthquakes  
Forearc basins  
Marginal basins  
Orogeny  
Plate boundaries  
Plate convergence  
Plate margins  
Subduction  
Volcanism

**Active sonar**  
BT: Sonar  
NT: Doppler sonar  
Multibeam sonar  
Side scan sonar  
RT: Acoustic tracking systems  
Echo ranging  
Echosounders  
Insonification  
Sonographs

Activity coefficient  
USE: **Thermodynamic activity**

**Activity patterns**  
UF: Activity rhythms  
RT: Behaviour  
Biological rhythms  
Feeding  
Local movements  
Locomotion  
Migrations

Activity rhythms  
USE: **Activity patterns**

Actual age  
USE: **Absolute age**

## ASFA THESAURUS

### Acyclic hydrocarbons

UF: Branched chain saturated hydrocarbons  
Straight chain saturated hydrocarbons  
BT: Saturated hydrocarbons  
NT: Butane  
Ethane  
Methane  
Propane

### Adaptations

SN: Use of a more specific term is recommended  
BT: Biological phenomena  
NT: Acclimation  
Acclimatization  
Camouflage  
Chromatic adaptations  
Mimicry  
Osmotic adaptations  
RT: Behaviour  
Ecotypes  
Synecology  
Tolerance

Adaptations (physiological)

USE: **Acclimatization**

Adaptive colouration

USE: **Mimicry**

Additional catch

USE: **By catch**

### Additives

UF: Modifiers  
NT: Food additives  
RT: Agents

Adenosine diphosphate

USE: **ADP**

Adenosine monophosphate

USE: **AMP**

Adenosine triphosphate

USE: **ATP**

### Adhesion

UF: Bonding  
RT: Adhesives  
Surface properties

### Adhesives

UF: Binders (adhesives)  
Cements (adhesives)  
Rubber (adhesives)  
NT: Fish glue  
RT: Adhesion  
Epoxy resins

Adiabatic cooling

USE: **Adiabatic processes**

Adiabatic heating

USE: **Adiabatic processes**

Adiabatic lapse rates

USE: **Temperature gradients**

### Adiabatic processes

UF: Adiabatic cooling  
Adiabatic heating  
BT: Isothermal processes  
RT: Potential density  
Potential temperature  
Thermodynamics

Adiabatic temperature gradient

USE: **Temperature gradients**

Adjacent seas

USE: **Marginal seas**

Administration

USE: **Management**

### ADP

UF: Adenosine diphosphate  
BT: Nucleotides  
Phosphates

### Adrenal glands

SN: Before 1982 search  
ENDOCRINE GLANDS  
UF: Suprarenal glands  
BT: Endocrine glands  
RT: Kidneys

Adsorbents

USE: **Adsorption**

### Adsorption

SN: The taking up of one substance at the surface of another  
UF: Adsorbents  
BT: Sorption  
RT: Chromatographic techniques  
Diffusion  
Drying  
Exchange capacity  
Oil removal  
Oil water separation  
Osmosis  
Separation  
Surface properties

### Adults

BT: Developmental stages  
RT: Sexual maturity

### Advection

SN: Process of transport of property by mass motion  
UF: Marine advection  
BT: Transport processes  
NT: Convection  
Horizontal advection  
Salt advection  
Vertical advection  
RT: Circulation  
Convergence zones  
Heat transport  
Oceanic convergences

Advection fog

USE: **Fog**

Advertisements

USE: **Publicity material**

Aeolian deposits

USE: **Eolian deposits**

Aeolian dust

USE: **Eolian dust**

Aeolian processes

USE: **Eolian processes**

Aeolian transport

USE: **Eolian transport**

### Aeration

NT: Artificial aeration  
Bioaeration  
RT: Air  
Air bubbles  
Bubbling  
Dissolved oxygen  
Mixing processes  
Oxygenation  
Self purification  
Separation  
Sewage treatment  
Sludge treatment  
Water circulation  
Water filtration  
Water mixing  
Water treatment

Aerial exposure

USE: **Air exposure**

### Aerial photographs

SN: Before 1982 search AERIAL PHOTOGRAPHY  
BT: Photographs  
RT: Aerial photography  
Satellite mosaics

## ASFA THESAURUS

### **Aerial photography**

BT: Photography  
NT: Satellite photography  
RT: Aerial photographs  
Aerial surveys  
Airborne sensing  
Stereophotography

### **Aerial surveys**

BT: Surveys  
RT: Aerial photography  
Airborne sensing  
Fishery surveys

### **Aerobic bacteria**

BT: Bacteria  
RT: Self purification

### **Aerobic conditions**

USE: **Oxic conditions**

### **Aerobic respiration**

BT: Respiration  
RT: Anoxia  
Biochemical oxygen demand  
Compensation depth  
Dissolved oxygen  
Gills  
Lungs  
Oxygen consumption  
Respirometers

### **Aerobic sediments**

USE: **Oxic sediments**

### **Aerodynamics**

BT: Fluid dynamics

### **Aeromagnetic surveys**

BT: Surveys  
RT: Airborne sensing  
Geomagnetic field  
Magnetic exploration

### **Aeronomy**

USE: **Atmospheric physics**

### **Aerosols**

UF: Atmospheric aerosols  
Continental aerosols  
Marine aerosols  
BT: Colloids  
NT: Radioactive aerosols  
RT: Air pollution  
Atmospheric particulates  
Bubble bursting  
Turbidity

### **Aestivation**

RT: Animal physiology  
Body temperature  
Dormancy

Ecophysiology  
Environmental effects  
Heat balance  
Hibernation  
Metabolism  
Plant physiology  
Temperature tolerance  
Thermoregulation

### **Actiology**

SN: The medical study of the causation of diseases  
UF: Etiology  
BT: Medicine  
RT: Disease control  
Disease detection  
Diseases

### **Afferent nerves**

USE: **Nerves**

### **Agar**

BT: Seaweed products  
RT: Alginates  
Carbohydrates  
Carrageenins  
Colloids  
Polysaccharides

### **Agarose**

BT: Polysaccharides

### **Age**

UF: Age of seawater  
Age of tide  
Earth age  
Wave age  
NT: Absolute age  
Biological age  
RT: Age determination  
Aging  
Geochronometry  
Residence time

### **Age (biological)**

USE: **Biological age**

### **Age (organisms)**

USE: **Biological age**

### **Age at first maturity**

USE: **Age at recruitment**

### **Age at recruitment**

SN: Age at which fish are recruited as fishable stock  
UF: Age at first maturity  
BT: Biological age  
RT: Age composition  
Recruitment

### **Age composition**

SN: Year-class frequencies  
BT: Population structure  
RT: Age at recruitment  
Age determination  
Age groups  
Biological aging  
Size distribution  
Year class

### **Age determination**

SN: Restricted to age determination in aquatic organisms. For physical purposes use GEOCHRONOMETRY. Before 1982 search also AGEING METHODS  
UF: Biological dating  
Dating (biological)  
Organism dating  
NT: Otolith reading  
Scale reading  
RT: Age  
Age composition  
Age groups  
Biological aging  
Fossils  
Growth

### **Age determination (earth sciences)**

USE: **Geochronometry**

### **Age groups**

SN: A group of fish at a given age. Before 1982 search AGE COMPOSITION  
RT: Age composition  
Age determination

### **Age length relationships**

USE: **Growth curves**

### **Age of seawater**

USE: **Age**

### **Age of tide**

USE: **Age**

### **Ageing**

USE: **Aging**

### **Ageing (biological)**

USE: **Biological aging**

### **Agents**

SN: Use of a more specific term is recommended  
NT: Anticoagulants  
Antifouling substances  
Antifreezes  
Anthelmintic agents

(cont'd)

## ASFA THESAURUS

### *Agents (cont'd)*

Antioxidants  
Antiparasitic agents  
Antitumour agents  
Antiviral agents  
Catalysts  
Coagulants  
Dispersants  
Inhibitors  
Mutagens  
Preservatives  
Solvents  
Surfactants

RT: Additives

### **Ageostrophic flow**

BT: Fluid flow  
RT: Geostrophic flow  
Geostrophy

### **Agglutinins**

UF: Haemagglutinins  
BT: Antibodies  
RT: Bacteria  
Blood cells

### Aggradation

USE: **Accretion**

### **Aggregates**

SN: Sand and gravel dredged and used as construction material  
BT: Seabed deposits  
RT: Aggregation  
Gravel  
Sand  
Sediments

### **Aggregation**

RT: Aggregates

### Aggregations (ecological)

USE: **Ecological aggregations**

### Aggregations (organisms)

USE: **Organism aggregations**

### Aggression

USE: **Aggressive behaviour**

### **Aggressive behaviour**

SN: Before 1982 search  
AGONISTIC BEHAVIOUR  
UF: Aggression  
Aggressive mimicry  
BT: Behaviour  
RT: Agonistic behaviour  
Pecking order  
Territoriality

### Aggressive mimicry

USE: **Aggressive behaviour**

### **Aging**

SN: Before 1982 search also  
AGEING.  
Use of a more specific term is recommended  
UF: Ageing  
NT: Biological aging  
RT: Age

### Aging (biological)

USE: **Biological aging**

### **Agonistic behaviour**

SN: Animal behaviour including threatening behaviour, posturing, and fleeing  
BT: Behaviour  
RT: Aggressive behaviour  
Display behaviour

### Agreements

USE: **International agreements**

### **Agricultural pollution**

BT: Pollution  
RT: Agricultural runoff  
Agriculture  
Chemical pollution

### **Agricultural runoff**

UF: Runoff from agricultural land  
BT: Runoff  
RT: Agricultural pollution  
Agriculture

### **Agriculture**

UF: Life sciences (agriculture)  
RT: Agricultural pollution  
Agricultural runoff  
Agropisciculture  
Irrigation

### **Agropisciculture**

SN: Combination or alternation of agriculture and freshwater aquaculture  
UF: Fish-cum-chicken culture  
Fish-cum-duck culture  
Fish-cum-pig culture  
Integrated agriculture  
NT: Rice field aquaculture  
RT: Agriculture  
Aquaculture techniques  
Fish culture  
Freshwater aquaculture  
Frog culture  
Plant culture  
Pond culture

### **Air**

RT: Aeration  
Air bubbles

### Air conditioning

Air pollution  
Air temperature  
Earth atmosphere  
Gases  
Oxygen

### Air bladder

USE: **Swim bladder**

### **Air breathing fish**

BT: Fish

### **Air bubbles**

BT: Bubbles  
RT: Aeration  
Air  
Air-water interface  
Capillarity  
Foams

### Air compressors

USE: **Compressors**

### **Air conditioning**

RT: Air  
Ventilation

### Air contamination

USE: **Air pollution**

### Air cushion vehicles

USE: **Hovercraft**

### **Air exposure**

UF: Aerial exposure  
Exposure to air  
RT: Exposure tolerance  
Intertidal environment

### **Air flow over land**

BT: Flow over surfaces  
RT: Atmospheric motion

### **Air flow over water**

UF: Flow over water surface  
BT: Flow over surfaces  
RT: Atmospheric motion  
Wind wave generation  
Wind-wave interaction

### **Air guns**

BT: Seismic energy sources

### **Air masses**

NT: Polar air masses  
RT: Atmospheric disturbances  
Atmospheric fronts  
Frontogenesis

### Air motion

USE: **Atmospheric motion**

## ASFA THESAURUS

Air poisoning

USE: **Air pollution**

### **Air pollution**

SN: Including its effects on aquatic environment

UF: Air contamination

Air poisoning

Atmospheric pollution

BT: Pollution

RT: Aerosols

Air

Air sampling

Anthropogenic factors

Atmospheric chemistry

Atmospheric particulates

Climatic changes

Dust

Fallout

Fly ash

Haze

Smoke

Air pumps

USE: **Pumps**

### **Air sampling**

BT: Sampling

RT: Air pollution

Atmospheric chemistry

Atmospheric particulates

### **Air temperature**

UF: Dry bulb temperature

BT: Temperature

RT: Air

Cold season

Evaporation

Isotherms

Potential temperature

Radiosondes

Southern oscillation

Storage conditions

Troposphere

Weather

### **Air transportation**

SN: Carriage of passengers and goods by air

BT: Transportation

RT: Aircraft

Hovercraft

Air-deployed expendable

bathythermographs

USE: **AXBTs**

### **Air-ice interface**

UF: Ice-air interface

BT: Interfaces

RT: Ablation

Evaporation

Heat exchange

Ice

Ice caps

### **Air-sea coupling**

RT: Air-sea interaction

Meteorology

Ocean-atmosphere system

Ocean-ice-atmosphere system

Air-sea exchanges

USE: **Air-water exchanges**

### **Air-sea interaction**

BT: Interactions

RT: Air-sea coupling

Air-water exchanges

Air-water interface

Meteorology

Ocean-atmosphere system

Sea surface

Teleconnections

Air-sea transfer

USE: **Air-water exchanges**

Air-water boundary layer

USE: **Atmospheric boundary layer**

### **Air-water exchanges**

UF: Air-sea exchanges

Air-sea transfer

Sea-air exchanges

Water-air exchanges

RT: Air-sea interaction

Air-water interface

Air-water temperature difference

Bowen ratio

Bubble bursting

Energy transfer

Evaporation

Gas exchange

Heat exchange

Moisture transfer

Momentum transfer

Ocean-atmosphere system

Surface chemistry

### **Air-water interface**

UF: Naviface

BT: Interfaces

RT: Air bubbles

Air-sea interaction

Air-water exchanges

Air-water temperature difference

Atmospheric boundary layer

Energy transfer

Evaporation

Gas exchange

Heat exchange

Light reflection

Light refraction

Moisture transfer

Momentum transfer

Oceanic boundary layer

Reflectance

Reflected global radiation

Sea surface

Surface microlayer

Surface properties

Surface radiation temperature

### **Air-water temperature difference**

BT: Temperature differences

RT: Air-water exchanges

Air-water interface

### **Airborne equipment**

UF: Aircraft equipment

BT: Equipment

RT: Airborne sensing

Aircraft

AXBTs

Electronic equipment

Surveying equipment

Airborne remote sensing

USE: **Airborne sensing**

### **Airborne sensing**

SN: Employing equipment carried by low flying aircraft and helicopters

UF: Airborne remote sensing

BT: Geosensing

RT: Aerial photography

Aerial surveys

Aeromagnetic surveys

Airborne equipment

Aircraft

### **Aircraft**

BT: Vehicles

NT: Helicopters

RT: Air transportation

Airborne equipment

Airborne sensing

Airports

Hovercraft

Aircraft equipment

USE: **Airborne equipment**

### **Airports**

RT: Aircraft

Airy waves

USE: **Linear waves**

### **Alanine**

BT: Amino acids



## ASFA THESAURUS

### Alarm substances

RT: Chemoreception  
Olfaction

### Alarm systems

UF: Warning devices  
BT: Warning systems  
NT: Distress signals  
RT: Detectors  
Safety devices

### Albacore fisheries

USE: **Tuna fisheries**

### Albedo

RT: Ratios  
Reflectance  
Reflection  
Solar radiation  
Surface properties

### Albinism

SN: Complete or almost complete  
absence of pigment in aquatic  
organisms  
RT: Chromatic pigments  
Genetic abnormalities

### Albumins

SN: Before 1980 search PROTEINS  
UF: Ovalbumin  
Serum albumins  
BT: Proteins  
RT: Bird eggs  
Blood

### Alcohols

BT: Organic compounds  
NT: Choline  
Glycerol  
RT: Carbohydrates  
Sterols

### Aldehydes

BT: Organic compounds  
RT: Arabinose  
Glucose  
Mannose  
Ribose  
Xylose

### Aldrin

BT: Chlorinated hydrocarbons  
RT: Insecticides

### Algae

SN: In ASFA-1, use as taxonomic  
descriptor; in ASFA-2, use as  
subject descriptor  
NT: Diatoms  
Zooxanthellae  
RT: Algal blooms

Algal culture  
Algal mats  
Algal settlements  
Stromatolites

Algae culture  
USE: **Algal culture**

Algae resources  
USE: **Botanical resources**

### Algal blooms

UF: Blooms  
Plankton blooms  
Sea blooms  
Water blooms  
RT: Algae  
Biological poisons  
Marine snow  
Mortality causes  
Phytoplankton  
Primary production  
Red tides

### Algal culture

UF: Algae culture  
Algculture  
BT: Cultures  
NT: Phytoplankton culture  
RT: Algae  
Brackishwater aquaculture  
Culture tanks  
Freshwater aquaculture  
Marine aquaculture  
Mass culture  
Spores

### Algal mats

BT: Biogenic sedimentary  
structures  
RT: Algae  
Stromatolites

### Algal settlements

BT: Biological settlement  
RT: Algae  
Artificial substrata  
Settling behaviour  
Substrate preferences

### Algicides

BT: Pesticides  
RT: Herbicides  
Toxicants

### Algculture

USE: **Algal culture**

### Alginates

SN: Industrial product derived from  
brown algae  
UF: Seaweed meal

BT: Seaweed products  
RT: Agar  
Carrageenins  
Kelps  
Organic acids

### Alginic acid

BT: Polysaccharides  
RT: Amino acids

### Algologists

UF: Phycologists  
BT: Biologists  
RT: Algology  
Fishery biologists  
Taxonomists

### Algology

UF: Phycology  
BT: Botany  
RT: Algologists  
Aquatic plants  
Hydrobiology  
Marine sciences  
Phytobenthos  
Phytoplankton  
Plant physiology

### Algorithms

RT: Computer programs  
Mathematical models  
Numerical analysis

### Alicyclic hydrocarbons

BT: Saturated hydrocarbons

### Alien species

USE: **Introduced species**

### Alimentary organs

BT: Animal organs  
Digestive system  
NT: Intestines  
Lophophores  
Pyloric caeca  
Stomach  
RT: Digestive glands  
Mouth parts  
Radulae

### Aliphatic hydrocarbons

USE: **Saturated hydrocarbons**

### Alkali basalts

BT: Basalts  
RT: Pyroxenes

### Alkali metal compounds

BT: Chemical compounds  
NT: Lithium compounds  
Potassium compounds  
Sodium compounds

## ASFA THESAURUS

### Alkali metals

BT: Metals  
NT: Caesium  
Lithium  
Potassium  
Rubidium  
Sodium

### Alkaline earth metal compounds

BT: Chemical compounds  
NT: Barium compounds  
Calcium compounds  
Magnesium compounds  
RT: Alkaline earth metals

### Alkaline earth metals

BT: Metals  
NT: Barium  
Beryllium  
Calcium  
Magnesium  
Radium  
Strontium  
Yttrium  
RT: Alkaline earth metal compounds

### Alkalinity

SN: For a pH above 7  
UF: Causticity  
BT: Chemical properties  
RT: Acidity  
Buffers  
pH  
pH effects  
Water hardness

### Alkaloids

BT: Organic compounds  
RT: Aquatic plants  
Drugs

### Alkanes

USE: **Saturated hydrocarbons**

### Alkenes

BT: Unsaturated hydrocarbons  
NT: Ethene

### Alkynes

BT: Unsaturated hydrocarbons  
NT: Ethyne

### Alleles

SN: (Genes for) paired characteristics  
BT: Genes

### Allergic reactions

UF: Allergies  
BT: Biological phenomena  
RT: Food poisoning

Histamines  
Immunology  
Poisonous organisms  
Toxicity

Allergies  
USE: **Allergic reactions**

Alligator culture  
USE: **Reptile culture**

### Allocation systems

SN: Restricted to fisheries for division of a total catch between participants in the fishery  
UF: International allocation  
National allocation  
RT: Exclusive economic zone  
Fishery policy  
Shared stocks

### Allochthonous deposits

RT: Autochthonous deposits  
Eolian deposits  
Extraterrestrial material  
Glacial deposits  
Sediments  
Volcanic rocks

### Allometry

SN: Size-dependence of metabolic processes  
RT: Metabolism

### Allopatric populations

SN: Populations of a same species living in different geographic areas  
RT: Geographical distribution  
Sympatric populations

Allowable catch  
USE: **Total allowable catch**

### Alloys

UF: Metals (materials)  
BT: Materials  
NT: Ferrous alloys  
Nonferrous alloys  
RT: Chemical elements  
Metallurgy  
Metals

### Allozymes

SN: Enzymes with allelic variants  
BT: Enzymes

### Alluvial deposits

UF: Alluvium  
BT: Sediments  
RT: Alluvial fans

Alluvial terraces  
Clastics  
Deltas  
Flood plains  
Fluvial morphology  
Fluvial sedimentation  
Fluvial transport  
Levees

### Alluvial fans

BT: Fans  
Landforms  
RT: Alluvial deposits  
Alluvial terraces  
Deep-sea fans  
Deposition features  
Fluvial features

### Alluvial terraces

BT: Landforms  
Terraces  
RT: Alluvial deposits  
Alluvial fans  
River valleys

### Alluvium

USE: **Alluvial deposits**

### Almanacs

BT: Tables  
NT: Nautical almanacs

### Alpha spectroscopy

USE: **Spectroscopic techniques**

### Alternate reproduction

SN: Alternation of generations  
BT: Reproduction  
RT: Sporophytes

### Alternative name

USE: **Synonymy**

### Altimeters

BT: Measuring devices  
NT: Laser altimeters  
Radar altimeters  
RT: Altimetry  
Height

### Altimetry

UF: Laser altimetry  
NT: Radar altimetry  
Satellite altimetry  
RT: Altimeters  
Height

### Altitude

USE: **Height**

## ASFA THESAURUS

### Aluminium

UF: Aluminum  
BT: Nonmetals  
RT: Aluminium compounds  
Bauxite  
Ferromanganese nodules

### Aluminium compounds

BT: Chemical compounds  
RT: Aluminium  
Silicon compounds

Aluminum

USE: **Aluminium**

### Ambient noise

UF: Background noise (sound)  
Underwater ambient noise  
BT: Noise (sound)  
NT: Biological noise  
Sediment noise  
Shipping noise  
Surface noise  
RT: Passive sonar  
Underwater noise

### Americium

BT: Actinides  
Transuranic elements  
RT: Americium isotopes

### Americium isotopes

BT: Isotopes  
RT: Americium

### Amination

BT: Chemical reactions  
RT: Deamination

### Amines

BT: Organic compounds  
NT: Hexosamines  
Hydroxylamines  
Nitrosamines  
Pyrrolidine  
RT: Amino acids

### Amino acid sequence

RT: Amino acids

### Amino acids

BT: Organic acids  
NT: Alanine  
Arginine  
Aspartic acid  
Cysteine  
Cystine  
Glutamic acid  
Glycine  
Leucine  
Lysine  
Methionine

Ornithine  
Phenylalanine  
Proline  
Serine  
Threonine  
Tyrosine  
Valine  
RT: Alginic acid  
Amines  
Amino acid sequence  
Nitrogen compounds  
Organic constituents  
Peptides  
Protein synthesis  
Proteins

Ammocetes

USE: **Fish larvae**

### Ammonia

UF: Ammonium salts  
BT: Nitrogen compounds  
RT: Ammonium compounds  
Gases  
Nitrogen cycle  
Nitrogen fixation  
Urea  
Volatile compounds

Ammonium

USE: **Ammonium compounds**

### Ammonium chloride

BT: Ammonium compounds  
Chlorides

### Ammonium compounds

SN: Before 1986 search also  
AMMONIUM  
UF: Ammonium  
NT: Ammonium chloride  
RT: Ammonia

Ammonium salts

USE: **Ammonia**

### Amoebocytes

SN: Before 1982 search CELLS  
BT: Cells  
RT: Body fluids  
Coelom  
Phagocytosis

### AMP

UF: Adenosine monophosphate  
BT: Nucleotides  
Phosphates

Amperometric titration

USE: **Titration**

Amphibian culture

USE: **Frog culture**

### Amphibiotic species

SN: Species that are aquatic during one part of the life cycle and terrestrial during the rest of the life cycle  
BT: Species  
RT: Aquatic organisms

### Amphibious vehicles

BT: Vehicles  
RT: Hovercraft

### Amphiboles

BT: Silicate minerals

### Amphibolite facies

BT: Metamorphic facies  
RT: Amphibolites

### Amphibolites

UF: Hornblende  
BT: Metamorphic rocks  
RT: Amphibolite facies

Amphidromes

USE: **Amphidromic systems**

Amphidromic point

USE: **Amphidromic systems**

### Amphidromic systems

UF: Amphidromes  
Amphidromic point  
RT: Cotidal lines

Amphihaline fish

USE: **Amphihaline species**

Amphihaline potamotocous species

USE: **Anadromous species**

### Amphihaline species

SN: Aquatic species which pass periodically, at well defined stages of their life cycle, from salt to fresh water and vice versa  
UF: Amphihaline fish  
BT: Species  
NT: Anadromous species  
Catadromous species  
RT: Osmoregulation  
Osmotic adaptations  
Salinity tolerance  
Spawning migrations

Amphihaline thalassotocous species

USE: **Catadromous species**

## ASFA THESAURUS

### **Amplitude**

BT: Dimensions  
NT: Wave amplitude  
RT: Absorption (physics)  
Attenuation

### **Anabolism**

BT: Metabolism  
RT: Catabolism

Anadromous fish

USE: **Anadromous species**

### **Anadromous migrations**

UF: Upstream migrations  
BT: Spawning migrations  
RT: Anadromous species  
Brackishwater fish  
Catadromous migrations  
Fishways  
Homing behaviour  
Potadromous migrations

### **Anadromous species**

SN: Having the habit to migrate  
from oceanic to coastal water  
or from salt water to  
freshwater to breed  
UF: Amphihaline potamotocous  
species  
Anadromous fish  
BT: Amphihaline species  
RT: Anadromous migrations  
Catadromous species

### **Anaemia**

SN: Deficiency in red blood cells,  
haemoglobin or both  
UF: Anemia  
BT: Haematological diseases  
RT: Erythrocytes  
Haemocyanins  
Haemoglobins  
Nutrition disorders

### **Anaerobic bacteria**

SN: See also the taxonomic index  
BT: Bacteria  
RT: Anaerobic digestion  
Anaerobic respiration  
Anaerobiosis  
Fermentation

Anaerobic conditions

USE: **Anoxic conditions**

### **Anaerobic digestion**

BT: Biodegradation  
RT: Anaerobic bacteria  
Anaerobiosis  
Biodegradable substances  
Waste treatment

### **Anaerobic respiration**

BT: Respiration  
RT: Anaerobic bacteria  
Anaerobiosis

Anaerobic sediments

USE: **Anoxic sediments**

Anaerobionts

USE: **Anaerobiosis**

### **Anaerobiosis**

UF: Anaerobionts  
RT: Anaerobic bacteria  
Anaerobic digestion  
Anaerobic respiration

### **Anaesthesia**

SN: Apparatus and methods for  
anaesthesia of aquatic  
organisms  
UF: Anesthesia  
Electroanaesthesia  
RT: Anaesthetics

### **Anaesthetics**

UF: Anesthetics  
BT: Drugs  
RT: Anaesthesia  
Fixation  
Inhibitors  
Narcotics

Analcime

USE: **Analcite**

### **Analcite**

UF: Analcime  
BT: Zeolites

Analog data records

USE: **Analog records**

### **Analog models**

UF: Electronic models  
BT: Models  
NT: Acoustic models

### **Analog records**

UF: Analog data records  
BT: Records  
NT: Bathythermograms  
Echosounder profiles  
Seismic profiles  
Seismograms  
Tidal curves  
Tidal records  
RT: Data converters  
Digital records

### **Analogs**

RT: Mathematical models

### **Analysis**

SN: Use of a more specific term is  
recommended  
NT: Biochemical analysis  
Chemical analysis  
Core analysis  
Cost analysis  
Dynamic analysis  
Economic analysis  
Electroanalysis  
Hydrocarbon analysis  
Mathematical analysis  
Microbiological analysis  
Response analysis  
Sediment analysis  
Volumetric analysis  
Water analysis  
Wave analysis  
RT: Analytical techniques  
Electrolysis  
Tests

### **Analytical errors**

BT: Errors  
RT: Analytical techniques

### **Analytical techniques**

UF: Isentropic analysis  
NT: Activation analysis  
Chromatographic techniques  
Colorimetric techniques  
Electrophoresis  
Gravimetric techniques  
Interferometry  
Ion selective electrode  
analysis  
Microscopy  
Polarography  
Spectroscopic techniques  
Stripping analysis  
Titration  
Winkler method  
RT: Analysis  
Analytical errors  
Automated recording  
Centrifugation  
Methodology

### **Anatomical structures**

NT: Body organs  
Body regions  
Circulatory system  
Digestive system  
Integumentary system  
Lymphatic system  
Nervous system  
Neurosecretory system  
Respiratory system  
Skeleton  
Urinary system

(cont'd)

## ASFA THESAURUS

### *Anatomical structures (cont'd)*

RT: Anatomy  
Animal physiology  
Cells  
Tissues

### **Anatomy**

BT: Biology  
RT: Anatomical structures  
Histology  
Organism morphology  
Osteology  
Physiology

### **Anchor stations**

USE: Cruise stations

### **Anchorages**

UF: Roadsteads  
NT: Harbours  
RT: Anchoring

### **Anchoring**

RT: Anchorages  
Anchors  
Berthing  
Drift  
Mooring systems  
Pipeline construction  
Semisubmersible platforms

### **Anchors**

UF: Ship anchors  
RT: Anchoring  
Berthing  
Drogues

### **Anchovy fisheries**

USE: **Clupeoid fisheries**

### **Ancient shorelines**

USE: **Strandlines**

### **Andalusite**

BT: Silicate minerals

### **Andesite**

BT: Volcanic rocks

### **Androgenesis**

BT: Reproduction

### **Androgens**

USE: **Sex hormones**

### **Anelasticity**

USE: **Elasticity**

### **Anemia**

USE: **Anaemia**

### **Anemometers**

SN: Use only for mechanically operated anemometers (cups, propellers, vanes, etc.).  
UF: Cup anemometers  
BT: Wind measuring equipment  
RT: Flowmeters  
Turbulence measurement

### **Anesthesia**

USE: **Anaesthesia**

### **Anesthetics**

USE: **Anaesthetics**

### **Angling**

SN: Restricted to sport fishing only  
BT: Sport fishing  
RT: Bait fishing  
Pole-line fishing

### **Angular distribution**

BT: Optical properties

### **Angular momentum**

BT: Momentum  
RT: Conservation of angular momentum

### **Anhydrite**

BT: Sulphate minerals  
RT: Authigenic minerals  
Chemical sediments  
Evaporites

### **Animal appendages**

SN: Projections of the body  
UF: Appendages  
NT: Antennae  
Barbels  
Byssus  
Cilia  
Limbs  
Locomotory appendages  
Telson  
Tentacles  
RT: Cephalothorax  
Flagella  
Thorax

### **Animal associations**

USE: **Ecological associations**

### **Animal behaviour**

USE: **Behaviour**

### **Animal body regions**

USE: **Body regions**

### **Animal communication**

UF: Biocommunication

### **Zoosemiotics**

BT: Communication  
RT: Behaviour  
Sound production  
Vocalization behaviour

### **Animal diseases**

SN: Before 1982 search DISEASES  
UF: Aquatic animal diseases  
BT: Diseases  
NT: Fish diseases  
RT: Aquatic animals  
Environmental diseases  
Nutrition disorders

### **Animal feed**

USE: **Feed**

### **Animal fossils**

BT: Fossils  
NT: Fossil foraminifera  
Fossil pteropods  
Fossil radiolaria

### **Animal growth**

BT: Growth

### **Animal head**

USE: **Head**

### **Animal manure**

USE: **Manure**

### **Animal metabolism**

SN: Before 1982 search METABOLISM  
BT: Metabolism  
RT: Animal physiology  
Conversion factors

### **Animal migrations**

USE: **Migrations**

### **Animal morphology**

SN: Before 1982 search MORPHOLOGY (ORGANISMS)  
UF: Morphology (animal)  
BT: Organism morphology  
RT: Animal physiology  
Aquatic animals  
Body regions  
Body size

### **Animal navigation**

UF: Bird navigation  
Navigation (animal)  
RT: Homing behaviour  
Locomotion  
Migrations  
Navigation  
Orientation

## ASFA THESAURUS

### Animal nutrition

UF: Finfish nutrition  
 Fish nutrition  
 BT: Nutrition  
 RT: Animal physiology  
 Diets  
 Digestion  
 Food consumption  
 Food conversion  
 Heterotrophy  
 Ingestion

### Animal oil extraction

UF: Extraction (animal oil)  
 Oil extraction (animal)  
 BT: Processing fishery products  
 NT: Fish oil extraction  
 RT: Chemical extraction  
 Separation

### Animal organs

UF: Organs (animal)  
 BT: Body organs  
 NT: Alimentary organs  
 Animal reproductive organs  
 Bladders  
 Excretory organs  
 Photophores  
 Respiratory organs  
 Sense organs  
 Vocal organs  
 RT: Animal physiology  
 Body regions  
 Tissues

Animal orientation

USE: **Orientation behaviour**

Animal pathology

USE: **Pathology**

### Animal physiology

SN: Before 1982 search  
 PHYSIOLOGY  
 UF: Physiology (animal)  
 BT: Physiology  
 NT: Avian physiology  
 Fish physiology  
 Mammalian physiology  
 RT: Aestivation  
 Anatomical structures  
 Animal metabolism  
 Animal morphology  
 Animal nutrition  
 Animal organs  
 Aquatic animals  
 Diving physiology  
 Zoology

Animal plankton

USE: **Zooplankton**

### Animal populations

UF: Populations (animal)  
 BT: Natural populations  
 NT: Spawning populations  
 RT: Aquatic animals  
 Stocks  
 Zoology

### Animal products

UF: Aquatic animal products  
 NT: Coral  
 Guano  
 Manure  
 Pearls  
 Shells  
 Sponges  
 RT: Aquatic animals  
 Waxes

### Animal reproductive organs

SN: For sexual reproduction only.  
 Before 1982 search  
 REPRODUCTIVE ORGANS  
 (ANIMAL)  
 UF: Reproductive organs (animal)  
 Reproductive system  
 Sexual glands  
 BT: Animal organs  
 NT: Gonads  
 RT: Hermaphroditism  
 Imposex  
 Self fertilization  
 Sex characters  
 Sex reversal  
 Sexual reproduction  
 Sterility

Animal wastes

USE: **Organic wastes**

Animals (aquatic)

USE: **Aquatic animals**

Anion exchange

USE: **Ion exchange**

### Anions

UF: Negative ions  
 BT: Ions  
 RT: Electrolysis

### Anisotropic rocks

BT: Rocks  
 RT: Anisotropy

### Anisotropy

BT: Physical properties  
 RT: Anisotropic rocks  
 Isotropic materials  
 Isotropy

Magnetic susceptibility  
 Mechanical properties  
 Optical properties  
 Orientation

Annotation

USE: **Bibliographic information**

### Annual

BT: Periodicity  
 RT: Annual variations  
 Biennial

### Annual range

BT: Extreme values  
 RT: Annual variations

### Annual reports

BT: Report literature  
 RT: Progress reports

### Annual variations

UF: Year to year variations  
 Yearly changes  
 BT: Periodic variations  
 RT: Annual  
 Annual range  
 Horizontal distribution  
 Regional variations  
 Seasonal variations

Annuli

USE: **Growth rings**

### Anodes

BT: Electrodes  
 NT: Sacrificial anodes

Anodic stripping voltammetry

USE: **Stripping analysis**

### Anomalies

SN: Use of a more specific term is recommended  
 NT: Dynamic height anomaly  
 Geoid anomalies  
 Gravity anomalies  
 Magnetic anomalies  
 Specific volume anomalies  
 Temperature anomalies

### Anoxia

SN: Deficiency or absence of oxygen in the blood and tissues  
 BT: Oxygen depletion  
 RT: Aerobic respiration  
 Asphyxia  
 Hypoxia  
 Mortality causes  
 Necroses  
 Oxygen

## ASFA THESAURUS

### Anoxic basins

SN: Water basins, without vertical circulation, characterized by a total absence of dissolved oxygen and a higher sulphides production  
 UF: Anoxic waters  
 BT: Basins  
 RT: Anoxic conditions  
   Anoxic sediments  
   Dissolved oxygen  
   Marginal seas  
   Oxygen depletion

### Anoxic conditions

SN: Depletion of dissolved oxygen in any specific aquatic environment  
 UF: Anaerobic conditions  
 RT: Anoxic basins  
   Dissolved oxygen  
   Oxic conditions  
   Oxygen consumption  
   Oxygen depletion  
   Pollution effects  
   Stagnant water  
   Winterkill

### Anoxic sediments

UF: Anaerobic sediments  
 BT: Sediments  
 RT: Anoxic basins  
   Hydrogen sulphide  
   Lacustrine sedimentation  
   Lake deposits  
   Organic matter  
   Oxic sediments  
   Oxygen  
   Oxygen depletion  
   Sapropels

### Anoxic waters

USE: **Anoxic basins**

### ANS

USE: **Autonomic nervous system**

### Antagonism

RT: Behaviour  
   Synergism

### Antarctic convergence

UF: Antarctic polar front (ocean)  
 BT: Polar convergences

### Antarctic front

SN: Use only for the semi-permanent front separating continental and maritime air masses over the Southern Ocean  
 UF: Antarctic polar front (atmospheric)

BT: Polar fronts  
 RT: Polar air masses  
   Polar meteorology

### Antarctic polar front (atmospheric)

USE: **Antarctic front**

### Antarctic polar front (ocean)

USE: **Antarctic convergence**

### Antarctic waters

USE: **Polar waters**

### Antarctic zone

BT: **Polar zones**

### Antennae

SN: A pair of anterior appendages, normally of sensory function  
 UF: Antennulae  
 BT: Animal appendages  
 RT: Orientation behaviour  
   Sense functions

### Antennulae

USE: **Antennae**

### Anthropogenic effects

USE: **Man-induced effects**

### Anthropogenic factors

SN: Influences exercised by man and his activities on an organism or biotic community  
 BT: Environmental factors  
 RT: Air pollution  
   Limiting factors  
   Pollution effects

### Anti-submarine warfare

USE: **Undersea warfare**

### Antibacterials

USE: **Antibiotics**

### Antibiotic resistance

USE: **Control resistance**

### Antibiotics

UF: Antibacterials  
 BT: Drugs  
 RT: Antihelminthic agents  
   Antiprotozoal agents  
   Bacterial diseases  
   Bacteriocides  
   Fungicides  
   Terpenes

### Antibodies

UF: Antitoxins  
 BT: Serum  
 NT: Agglutinins

### Monoclonal antibodies

RT: Antigens  
   Biological poisons  
   Defence mechanisms  
   Immunity  
   Immunology  
   Immunoprecipitation  
   Target cells  
   Toxicity  
   Vaccines

### Anticholinesterases

USE: **Cholinesterase inhibitors**

### Anticlines

BT: Folds  
 NT: Domes  
 RT: Salt domes  
   Synclines

### Anticoagulants

BT: Agents  
 RT: Coagulants  
   Dispersants  
   Preservatives

### Anticorrosion material

USE: **Corrosion control**

### Anticyclones

UF: Midlatitude anticyclones  
 RT: Anticyclonic motion  
   Atmospheric pressure  
   Cyclones  
   Winds

### Anticyclonic eddies

USE: **Current rings**

### Anticyclonic gyres

USE: **Gyres**

### Anticyclonic motion

BT: Motion  
 RT: Anticyclones  
   Cyclonic motion  
   Fluid motion  
   Rotation

### Anticyclonic rings

USE: **Current rings**

### Antidunes

BT: Bed forms  
 RT: Transverse bed forms

### Antifouling coatings

USE: **Antifouling substances**

## ASFA THESAURUS

### Antifouling substances

UF: Antifouling coatings  
BT: Agents  
RT: Arsenic compounds  
Chemical control  
Coating materials  
Fouling  
Fouling control

### Antifreezes

UF: Freezing point depressants  
BT: Agents  
RT: Deicing  
Freezing

### Antifungals

USE: **Fungicides**

### Antigens

RT: Antibodies  
Bacteria  
Blood cells  
Blood groups  
Glycoproteins  
Immunoprecipitation  
Serological studies  
Vaccines

### Anthelminthes pesticides

USE: **Anthelminthic agents**

### Anthelminthic agents

SN: Before 1982 search  
PESTICIDES  
UF: Anthelminthes pesticides  
BT: Agents  
Pesticides  
RT: Antibiotics  
Parasitic diseases

### Antimony

BT: Heavy metals  
RT: Antimony isotopes

### Antimony isotopes

BT: Isotopes  
RT: Antimony

### Antioxidants

BT: Agents  
RT: Chemical compounds  
Corrosion  
Corrosion control  
Food additives  
Oxidation  
Paints

### Antiparasitic agents

SN: Before 1982 search  
PESTICIDES  
BT: Agents  
Pesticides

NT: Antiprotozoal agents  
RT: Parasitic diseases

### Antiprotozoal agents

SN: Before 1982 search  
PESTICIDES  
UF: Protozoal pesticides  
BT: Antiparasitic agents  
RT: Antibiotics  
Protozoan diseases

### Antiseptics

USE: **Disinfectants**

### Antitoxins

USE: **Antibodies**

### Antitumour activity

USE: **Antitumour agents**

### Antitumour agents

UF: Antitumour activity  
BT: Agents  
RT: Drugs  
Tumours

### Antiviral activity

USE: **Antiviral agents**

### Antiviral agents

UF: Antiviral activity  
BT: Agents  
RT: Drugs  
Viral diseases  
Viruses

### Anus

BT: Body regions

### Apatite

BT: Phosphate minerals

### Aphotic zone

SN: Not reached by sunlight  
RT: Abyssopelagic zone  
Bathypelagic zone  
Deep water  
Euphotic zone  
Light penetration  
Marine environment

### Aplanospores

USE: **Spores**

### Appendages

USE: **Animal appendages**

### Application

USE: **Utilization**

### Appraisal

USE: **Evaluation**

### Appropriate technology

BT: Technology

### Approximation

UF: Estimation  
BT: Numerical analysis  
NT: Boussinesq approximation  
Closure approximation  
Least squares method  
RT: Back calculation  
Errors  
Finite difference method  
Prediction  
Statistical analysis

### Aquaculture

UF: Aquaculture industry  
Aquatic agriculture  
Aquiculture  
NT: Brackishwater aquaculture  
Freshwater aquaculture  
Marine aquaculture  
RT: Aquaculture development  
Aquaculture economics  
Aquaculture engineering  
Aquaculture facilities  
Aquaculture products  
Aquaculture regulations  
Aquaculture statistics  
Aquaculture systems  
Aquaculture techniques  
Aquaculturists  
Aquatic sciences  
Breeding  
Brood care  
Culture effects  
Cultured organisms  
Cultures  
Rearing  
Stocking (organisms)

### Aquaculture development

BT: Resource development  
RT: Aquaculture  
Aquaculture economics  
Aquaculture enterprises  
Aquaculture regulations  
Aquaculture systems  
Aquaculture techniques  
Development projects  
Experimental culture

### Aquaculture economics

SN: Before 1982 search FISHERY  
ECONOMICS  
UF: Farmed fish economics  
Fish culture economics  
BT: Fishery economics  
RT: Aquaculture  
Aquaculture development  
Aquaculture enterprises  
Aquaculture statistics



## ASFA THESAURUS

### **Aquaculture effluents**

UF: Effluents (aquaculture)  
BT: Effluents

### **Aquaculture engineering**

BT: Engineering  
RT: Aquaculture  
Fishery engineering

### **Aquaculture enterprises**

UF: Aquaculture industries  
Commercial aquaculture  
BT: Industries  
RT: Aquaculture development  
Aquaculture economics  
Aquaculture systems

### **Aquaculture equipment**

BT: Equipment  
RT: Aquaculture facilities  
Aquaria  
Cages  
Culture tanks  
Feeding equipment  
Harvesting machines  
Recirculating systems  
Screens  
Water pumps

### **Aquaculture facilities**

NT: Hatcheries  
RT: Aquaculture  
Aquaculture equipment  
Aquaculture techniques  
Artificial lakes  
Desalination plants  
Fish ponds  
Water reservoirs

### **Aquaculture industries**

USE: **Aquaculture enterprises**

### **Aquaculture industry**

USE: **Aquaculture**

### **Aquaculture law**

USE: **Aquaculture regulations**

### **Aquaculture licensing**

USE: **Aquaculture regulations**

### **Aquaculture products**

SN: Organisms or products derived  
from aquaculture practices  
BT: Products  
RT: Aquaculture  
Cultured organisms  
Fishery products

### **Aquaculture regulations**

UF: Aquaculture law  
Aquaculture licensing

BT: Legislation

RT: Aquaculture  
Aquaculture development

Aquaculture sites

USE: **Site selection**

### **Aquaculture statistics**

SN: Referring to statistical data  
on cultivated aquatic organisms  
and harvested products  
BT: Fishery statistics  
RT: Aquaculture  
Aquaculture economics  
Seaweed statistics

### **Aquaculture systems**

NT: Open systems  
Recirculating systems  
RT: Aquaculture  
Aquaculture development  
Aquaculture enterprises  
Aquaculture techniques  
Cultures

### **Aquaculture techniques**

NT: Aquarium culture  
Batch culture  
Bottom culture  
Cage culture  
Continuous culture  
Extensive culture  
Hybrid culture  
Intensive culture  
Mass culture  
Monoculture  
Monosex culture  
Off-bottom culture  
Overwintering techniques  
Polyculture  
Pond culture  
Raceway culture  
Raft culture  
Silo culture  
Thermal aquaculture  
Tray culture  
Valliculture  
Warm-water aquaculture  
Wastewater aquaculture

RT: Agropisciculture  
Aquaculture  
Aquaculture development  
Aquaculture facilities  
Aquaculture systems  
Artificial aeration  
Cultures  
Habitat improvement  
Induced breeding  
Rearing  
Rice field aquaculture  
Selective breeding  
Small scale aquaculture

Stocking (organisms)

### **Aquaculturists**

BT: Technicians  
RT: Aquaculture

### **Aquaria**

UF: Aquarium systems  
Oceanaria  
RT: Aquaculture equipment  
Aquariology  
Aquarium culture  
Continuous culture  
Ornamental fish  
Water filtration  
Water pumps

### **Aquariology**

RT: Aquaria  
Artificial aeration

### **Aquarium culture**

BT: Aquaculture techniques  
RT: Aquaria  
Fish culture  
Ornamental fish

Aquarium fish

USE: **Ornamental fish**

Aquarium systems

USE: **Aquaria**

Aquatic agriculture

USE: **Aquaculture**

Aquatic animal diseases

USE: **Animal diseases**

Aquatic animal products

USE: **Animal products**

### **Aquatic animals**

SN: Any microscopic or  
macroscopic animal organisms  
living permanently or developing  
a part of their life cycle in an  
aquatic environment  
UF: Animals (aquatic)  
Aquatic fauna  
BT: Aquatic organisms  
Fauna  
NT: Aquatic birds  
Aquatic insects  
Aquatic mammals  
Aquatic reptiles  
Fish  
Marine invertebrates  
Shellfish  
RT: Animal diseases  
Animal morphology

(cont'd)

## ASFA THESAURUS

### *Aquatic animals (cont'd)*

Animal physiology  
Animal populations  
Animal products  
Biogeography  
Fishery resources  
Rare species  
Zoobenthos  
Zoology  
Zooplankton

Aquatic biologists  
USE: **Biologists**

Aquatic biology  
USE: **Hydrobiology**

### **Aquatic birds**

UF: Birds (aquatic)  
BT: Aquatic animals  
NT: Marine birds  
RT: Avian physiology  
Feathers  
Flight behaviour  
Flying  
Imprinting  
Ornithology  
Wings

Aquatic botanical resources  
USE: **Botanical resources**

### **Aquatic communities**

UF: Communities (ecological)  
NT: Benthos  
Epipsammon  
Nekton  
Neuston  
Periphyton  
Plankton  
Pleuston  
Psammon  
Seston  
RT: Aquatic environment  
Aquatic organisms  
Biocoenosis  
Biological charts  
Biota  
Brackishwater ecology  
Climax community  
Community composition  
Ecological associations  
Ecological succession  
Ecosystems  
Freshwater ecology  
Habitat  
Marine ecology  
Niches  
Organism aggregations  
Synecology

### **Aquatic drugs**

SN: Drugs of aquatic origin and their medical uses  
BT: Drugs

### Aquatic ecology

USE: **Ecology**

### **Aquatic environment**

SN: Environment of all types of hydrosphere  
BT: Environments  
NT: Benthic environment  
Brackishwater environment  
Epontic environment  
Inland water environment  
Interstitial environment  
Marine environment  
Pelagic environment  
RT: Aquatic communities  
Aquatic sciences  
Biotores  
Ecosystems  
Environment management  
Environmental surveys  
Habitat  
Water  
Water bodies

Aquatic fauna  
USE: **Aquatic animals**

### Aquatic habitat

USE: **Habitat**

### **Aquatic insects**

SN: Restricted to aquatic insects and their larvae  
UF: Insects (aquatic)  
BT: Aquatic animals  
RT: Boring organisms  
Entomology  
Food organisms  
Insect eggs  
Insect larvae  
Wings

Aquatic living resources  
USE: **Living resources**

### **Aquatic mammals**

UF: Mammals (aquatic)  
BT: Aquatic animals  
NT: Marine mammals  
RT: Cetology  
Mammalian physiology  
Mammalogists  
Mammalogy  
Stranding

Aquatic natural resources  
USE: **Natural resources**

### **Aquatic organisms**

SN: Use of a more specific term is recommended  
UF: Organisms (aquatic)  
NT: Aquatic animals  
Aquatic plants  
Boring organisms  
Burrowing organisms  
Cultured organisms  
Dangerous organisms  
Estuarine organisms  
Food organisms  
Fouling organisms  
Freshwater organisms  
Heterotrophic organisms  
Luminous organisms  
Marine organisms  
Noxious organisms  
Test organisms  
Tube dwellers  
RT: Amphibiotic species  
Aquatic communities  
Microorganisms  
Organism aggregations  
Species

Aquatic plant culture  
USE: **Plant culture**

Aquatic plant resources  
USE: **Botanical resources**

### Aquatic plant utilization

USE: **Plant utilization**

### **Aquatic plants**

SN: Any microscopic or macroscopic vegetal organism living in aquatic environment, excluding bacteria and viruses  
UF: Hydrophytes  
Plants (aquatic)  
BT: Aquatic organisms  
Flora  
RT: Algology  
Alkaloids  
Biogeography  
Botanical resources  
Botany  
Emergent vegetation  
Fishery resources  
Fungi  
Phytobenthos  
Phytohormones  
Phytoplankton  
Phytosociology  
Plant culture  
Plant utilization  
Pleuston  
Rare species  
Weeds

## ASFA THESAURUS

Aquatic pollution  
USE: **Water pollution**

**Aquatic reptiles**  
UF: Reptiles (aquatic)  
BT: Aquatic animals  
RT: Herpetology  
Reptile culture

**Aquatic sciences**  
NT: Freshwater sciences  
Limnology  
Marine sciences  
RT: Aquaculture  
Aquatic environment  
Earth sciences  
Hydrosphere

Aquatic weed control  
USE: **Plant control**

Aquatic weed utilization  
USE: **Plant utilization**

Aquatic weeds  
USE: **Weeds**

Aquiculture  
USE: **Aquaculture**

**Arabinose**  
BT: Monosaccharides  
RT: Aldehydes

**Arachidonic acid**  
BT: Organic acids

**Aragonite**  
BT: Carbonate minerals  
RT: Calcium carbonates  
Pteropod ooze

**Archaeology**  
UF: Archeology  
Marine archaeology  
Nautical archaeology  
RT: Fossils  
Hydrographic surveys  
Palaeontology

Archean  
USE: **Precambrian**

Archeology  
USE: **Archaeology**

Archipelagic waters  
USE: **Archipelagoes**

**Archipelagoes**  
UF: Archipelagic waters  
RT: Islands

**Archives**  
RT: Historical account  
Libraries

Archivists  
USE: **Librarians**

Arcs (island)  
USE: **Island arcs**

Arctic environment  
USE: **Arctic zone**

Arctic sea smoke  
USE: **Fog**

Arctic waters  
USE: **Polar waters**

**Arctic zone**  
UF: Arctic environment  
BT: Polar zones  
RT: Permafrost

**Area**  
UF: Surface area  
BT: Dimensions  
RT: Hypsometric curves  
Size  
Surfaces

**Arenites**  
BT: Clastics  
RT: Graywacke  
Placers  
Sand  
Sandstone

**Argillaceous deposits**  
RT: Clays  
Lutites  
Marl  
Marlstone  
Sediments  
Slates

**Arginine**  
BT: Amino acids

**Argon**  
BT: Rare gases  
RT: Argon isotopes

**Argon isotopes**  
BT: Isotopes  
RT: Argon  
Potassium-argon dating

**Arid environments**  
NT: Deserts  
RT: Climatic zones

Droughts  
Playas  
Sabkhas

Arkshell fisheries  
USE: **Clam fisheries**

Aroma  
USE: **Odour**

Aromatic compounds  
USE: **Aromatics**

**Aromatic hydrocarbons**  
SN: Before 1982 search also  
AROMATICS  
UF: Monocyclic hydrocarbons  
Polycyclic hydrocarbons  
BT: Unsaturated hydrocarbons  
NT: Benzene  
Naphthalene  
PCB  
Xylene

**Aromatics**  
UF: Aromatic compounds  
NT: Phenols  
RT: Chemical compounds  
Organic compounds

**Arrays**  
NT: Acoustic arrays  
Current meter arrays  
Seismic arrays  
Thermistor chains  
Thermocouple arrays

**Arsenates**  
BT: Arsenic compounds

**Arsenic**  
BT: Heavy metals  
RT: Arsenic compounds

**Arsenic compounds**  
BT: Chemical compounds  
NT: Arsenates  
RT: Antifouling substances  
Arsenic

Artemia culture  
USE: **Brine shrimp culture**

Arteries  
USE: **Blood vessels**

**Articulated columns**  
UF: Articulated structures  
BT: Offshore structures  
RT: Loading buoys  
Single point moorings

## ASFA THESAURUS

Articulated structures  
USE: **Articulated columns**

### Artificial aeration

SN: Aeration systems used in aquaria, aquaculture, diving and lakes  
BT: Aeration  
RT: Aquaculture techniques  
Aquariology  
Bubble disease  
Gases  
Habitat improvement (chemical)

Artificial fecundation  
USE: **Induced breeding**

Artificial feed  
USE: **Feed**

### Artificial feeding

BT: Feeding  
NT: Selective feeding  
RT: Balanced rations  
Diets  
Feed composition  
Feeding experiments  
Rearing

Artificial habitats  
USE: **Underwater habitats**

### Artificial harbours

SN: Purpose-built anchorages constructed on an open coast. Use of a more specific term is recommended  
BT: Harbours  
NT: Marinas  
RT: Military ports  
Offshore docking

### Artificial intelligence

UF: Expert systems  
RT: Computer programs

### Artificial islands

BT: Offshore structures  
NT: Ice rafts  
Sand structures  
RT: Ice islands  
Islands

### Artificial lakes

UF: Man-made lakes  
BT: Lakes  
RT: Aquaculture facilities  
Water reservoirs

Artificial manure  
USE: **Manure**

Artificial rearing  
USE: **Rearing**

### Artificial reefs

SN: Artificial structures introduced or built in marine or brackish coastal waters creating a sheltered space for fishing or aquaculture  
UF: Reefs (artificial)  
BT: Offshore structures  
RT: Artificial spawning grounds  
Habitat improvement (physical)  
Reef fish  
Reef fisheries  
Reefs  
Shelters

Artificial satellites  
USE: **Satellites**

### Artificial seawater

UF: Synthetic sea water  
RT: Sea water  
Standard sea water

### Artificial seaweed

UF: Seaweed (artificial)  
RT: Scour protection  
Seabed protection  
Seaweeds

### Artificial shelters

USE: **Shelters**

Artificial spawning  
USE: **Induced breeding**

### Artificial spawning grounds

SN: Any man-made arrangement put into water bodies for fish to spawn  
BT: Spawning grounds  
RT: Artificial reefs  
Shelters

### Artificial substrata

BT: Substrata  
NT: Cultch  
RT: Algal settlements  
Settling behaviour

### Artificial upwelling

BT: Upwelling  
RT: OTEC  
Temperature differences  
Thermal power

Artisanal aquaculture  
USE: **Small scale aquaculture**

### Artisanal fishing

SN: Mainly for local human food subsistence using primitive gears and vessels  
UF: Small scale fishing  
BT: Fishing  
RT: Artisanal whaling  
Canoe fisheries  
Coastal fisheries  
Estuarine fisheries  
Handlining  
Lagoon fisheries  
Lake fisheries  
River fisheries

### Artisanal whaling

UF: Shore whaling  
BT: Whaling  
RT: Artisanal fishing

### Asbestos

RT: Insulating materials

Ascorbic acid  
USE: **Vitamin C**

Ascospores  
USE: **Spores**

ASCP  
USE: **Single cell proteins**

Asdic  
USE: **Sonar**

Aseismic margins  
USE: **Passive margins**

### Aseismic ridges

BT: Submarine ridges  
RT: Seismic ridges

### Aseismic zones

BT: Earth structure  
RT: Seismic zones

### Asexual reproduction

BT: Reproduction  
NT: Budding  
RT: Clones  
Cloning  
Conidia  
Gemmules  
Plant reproductive structures  
Sporangia  
Spores  
Vegetative reproduction

### Ash content

RT: Ashes

## ASFA THESAURUS

### Ash layers

RT: Ashes  
Tephra

### Ashes

NT: Fly ash  
Volcanic ash  
RT: Ash content  
Ash layers

### Aspartic acid

BT: Amino acids

### Asphalt

BT: Petroleum hydrocarbons  
RT: Oil sands  
Petroleum residues

### Asphyxia

SN: State of suspended animation  
as a result of deficiency of  
oxygen in the blood  
UF: Suffocation  
RT: Anoxia  
Hypercapnia  
Mortality causes

### Assembling

USE: **Construction**

### Assimilation (food)

USE: **Food conversion**

### Associated species

SN: Species which have a  
predator/prey or competitive  
relationship with the exploited  
species  
UF: Dependent species  
Interdependent species  
BT: Species  
RT: Competition  
Interspecific relationships  
Intraspecific relationships  
Predation

### Association constants

BT: Constants

### Associations

USE: **Organizations**

### Associations (animal)

USE: **Ecological associations**

### Associations (ecological)

USE: **Ecological associations**

### Astaciculture

USE: **Crayfish culture**

### Asthenosphere

BT: Earth structure  
RT: Isostasy  
Lithosphere  
Low-velocity layer  
Magma  
Moho  
Plate tectonics  
Upper mantle

### Astronomical tides

UF: Highest astronomical tides  
Lowest astronomical tides  
BT: Tides  
RT: Extreme values  
Tidal amplitude

### Astronomy

RT: Celestial navigation  
Earth orbit  
Moon  
Moon phases  
Satellites  
Solar activity  
Solar eclipse  
Solar radiation  
Sun

### Atlases

BT: Documents  
NT: Oceanographic atlases  
RT: Cartography  
Expedition reports  
Gazetteers  
Maps

### Atmosphere (earth)

USE: **Earth atmosphere**

### Atmosphere (life support)

USE: **Life support systems**

### Atmosphere (planetary)

USE: **Planetary atmospheres**

### Atmosphere evolution

SN: Evolution of planetary  
atmospheres  
UF: Evolution (atmosphere)  
RT: Atmospheric chemistry  
Earth history  
Geochemistry  
Planetary atmospheres  
Seawater evolution

### Atmosphere-ocean system

USE: **Ocean-atmosphere system**

### Atmospheric aerosols

USE: **Aerosols**

### Atmospheric boundary layer

UF: Air-water boundary layer  
Planetary boundary layer  
Surface boundary layer  
BT: Boundary layers  
RT: Air-water interface  
Atmospheric fronts  
Atmospheric turbulence  
Cellular convection  
Moisture transfer  
Momentum transfer  
Troposphere  
Wave interactions  
Wind profiles  
Wind stress

### Atmospheric chemistry

UF: Atmospheric composition  
BT: Atmospheric sciences  
Chemistry  
RT: Air pollution  
Air sampling  
Atmosphere evolution  
Atmospheric gases  
Atmospheric particulates  
Climatic changes  
Earth atmosphere

### Atmospheric circulation

UF: General circulation  
(atmospheric)  
BT: Atmospheric motion  
Circulation  
NT: Meridional atmospheric  
circulation  
RT: Coriolis force  
Heat transport  
Ocean circulation  
Southern oscillation  
Winds

### Atmospheric composition

USE: **Atmospheric chemistry**

### Atmospheric conditions

USE: **Weather**

### Atmospheric convection

BT: Convection  
RT: Atmospheric motion

### Atmospheric convergences

BT: Convergence zones  
NT: Intertropical convergence zone  
Polar fronts  
RT: Atmospheric fronts

### Atmospheric depressions

NT: Tropical depressions  
RT: Weather

## ASFA THESAURUS

### Atmospheric diffusion

BT: Diffusion  
RT: Turbulent diffusion

### Atmospheric disturbances

SN: Use of a more specific term is recommended  
RT: Air masses  
Atmospheric fronts  
Atmospheric motion  
High pressure ridges  
High pressure systems  
Low pressure systems  
Meteorology  
Tornadoes  
Tropical depressions

Atmospheric electrical phenomena  
USE: **Atmospheric electricity**

### Atmospheric electricity

UF: Atmospheric electrical phenomena  
Aurora  
St Elmo's fire  
BT: Electricity  
NT: Lightning  
RT: Atmospheric physics  
Ionosphere

Atmospheric fallout  
USE: **Fallout**

### Atmospheric forcing

UF: Meteorological forcing  
RT: Atmospheric pressure  
Hurricanes  
Mixed layer depth  
Oceanic response  
Response time  
Surface mixed layer  
Thermal structure  
Wind stress

### Atmospheric fronts

UF: Cold fronts  
Fronts (meteorology)  
Meteorological fronts  
Occluded fronts  
Warm fronts  
BT: Fronts  
RT: Air masses  
Atmospheric boundary layer  
Atmospheric convergences  
Atmospheric disturbances  
Frontal features  
Meteorology  
Troposphere  
Weather forecasting

### Atmospheric gases

BT: Gases

NT: Carbon dioxide  
Hydrogen  
Nitrogen  
Oxygen  
Ozone  
RT: Atmospheric chemistry

### Atmospheric motion

UF: Air motion  
BT: Motion  
NT: Atmospheric circulation  
Winds  
RT: Air flow over land  
Air flow over water  
Atmospheric convection  
Atmospheric disturbances  
Atmospheric turbulence  
Earth atmosphere  
Fluid dynamics  
Heat transport  
Horizontal motion  
Lee waves  
Meteorology  
Planetary waves  
Vertical motion  
Vorticity  
Waterspouts

### Atmospheric optical phenomena

UF: Mirages  
RT: Atmospheric physics  
Haze  
Light  
Optics  
Visibility

### Atmospheric particulates

UF: Dust (atmospheric)  
Particulate matter (air)  
Particulates (atmospheric)  
BT: Particulates  
NT: Salt particles  
RT: Aerosols  
Air pollution  
Air sampling  
Atmospheric chemistry  
Dust  
Fallout  
Fly ash  
Pollen  
Smoke  
Spores

### Atmospheric physics

UF: Aeronomy  
BT: Atmospheric sciences  
Physics  
NT: Cloud physics  
RT: Atmospheric electricity  
Atmospheric optical phenomena  
Earth atmosphere  
Meteorology

Atmospheric polar fronts  
USE: **Polar fronts**

Atmospheric pollution  
USE: **Air pollution**

### Atmospheric precipitations

SN: Before 1982 use  
PRECIPITATIONS  
(ATMOSPHERIC)  
UF: Precipitation (atmospheric)  
Precipitation (meteorology)  
BT: Hydrometeors  
NT: Hail  
Rain  
Snow  
RT: Clouds  
Meteorology  
Water resources  
Weather

### Atmospheric pressure

UF: Barometric pressure  
Pressure (atmospheric)  
BT: Pressure  
NT: Sea level pressure  
RT: Anticyclones  
Atmospheric forcing  
Barometers  
Earth atmosphere  
High pressure systems  
Hypsometry  
Low pressure systems  
Meteorology  
Pressure field  
Radiosondes  
Sigma-T  
Weather  
Weather forecasting  
Winds

Atmospheric radiation  
USE: **Downward long wave radiation**

### Atmospheric sciences

BT: Earth sciences  
NT: Atmospheric chemistry  
Atmospheric physics  
Climatology  
Meteorology

### Atmospheric tides

SN: Tidal motion in the atmosphere  
UF: Tides (atmospheric)  
BT: Tidal motion  
RT: Earth tides  
Meteorological tides  
Tides

Atmospheric turbidity  
USE: **Haze**

## ASFA THESAURUS

### Atmospheric turbulence

UF: Clear air turbulence  
 BT: Turbulence  
 NT: Gusts  
 RT: Atmospheric boundary layer  
     Atmospheric motion  
     Laminar flow  
     Turbulence measurement  
     Winds

### Atoll lagoons

BT: Lagoons  
 RT: Atolls

### Atolls

UF: Coral islands  
 BT: Islands  
 RT: Atoll lagoons  
     Coral  
     Coral reefs

### Atomic absorption spectroscopy

USE: **Absorption spectroscopy**

### Atomic energy

USE: **Nuclear energy**

### Atomic fluorescence spectroscopy

USE: **Fluorescence spectroscopy**

### Atomic physics

USE: **Nuclear physics**

### Atomic power plants

USE: **Nuclear power plants**

### ATP

UF: Adenosine triphosphate  
 BT: Nucleotides  
     Phosphates

### Attachment (biological)

USE: **Biological attachment**

### Attachment (lampreys)

USE: **Lamprey attachment**

### Attachment (parasites)

USE: **Parasite attachment**

### Attachment organs

BT: Body organs  
 RT: Biological attachment

### Attenuance

BT: Optical properties  
 RT: Extinction coefficient  
     Light attenuation  
     Transmittance

### Attenuation

SN: Use of a more specific term is recommended  
 NT: Light attenuation  
     Seismic attenuation  
     Wave attenuation  
 RT: Absorption (physics)  
     Amplitude  
     Damping  
     Signal-to-noise ratio  
     Transmission  
     Wave motion

### Attenuation (light)

USE: **Light attenuation**

### Attenuation (water waves)

USE: **Wave attenuation**

### Attenuation coefficient

USE: **Extinction coefficient**

### Attracting techniques

SN: Use of artificial or natural objects or artificial stimuli (light, electricity, etc.) to attract and concentrate fish and other aquatic animals for fishing purposes  
 UF: Fish attracting  
     Luring  
 RT: Bait fishing  
     Catching methods

### Audio recordings

UF: Gramophone records  
     Sound recordings  
     Tape recordings (sound)  
 BT: Audiovisual materials  
 RT: Magnetic tape recordings  
     Records  
     Sound recorders

### Audiovisual materials

UF: Visual aids  
 NT: Audio recordings  
     Films  
     Filmstrips  
     Graphics  
     Photographs  
     Satellite mosaics  
     Slides (photographic)  
     Videotape recordings  
 RT: Documents  
     Magnetic tapes  
     Scale models  
     Training aids

### Audition

BT: Sense functions

### RT: Auditory organs

Auditory stimuli  
 Sound production

### Auditory organs

UF: Ears  
     Phonoreceptors  
 BT: Sense organs  
 RT: Audition  
     Auditory stimuli  
     Echolocation  
     Mechanical stimuli  
     Sound production  
     Vocalization behaviour

### Auditory stimuli

BT: Stimuli  
 RT: Audition  
     Auditory organs  
     Sound production  
     Vocalization behaviour

### Augite

BT: Pyroxenes

### Aurora

USE: **Atmospheric electricity**

### Austausch coefficients

USE: **Exchange coefficients**

### Autecology

SN: Ecological study of a single individual or many individuals of a given species  
 BT: Ecology  
 RT: Biological rhythms  
     Life history  
     Migrations

### Authigenes

USE: **Authigenic minerals**

### Authigenesis

BT: Diagenesis  
 RT: Authigenic minerals

### Authigenic minerals

UF: Authigenes  
     Authigenic sediments  
 BT: Sediments  
 NT: Evaporites  
     Ironstone  
 RT: Anhydrite  
     Authigenesis  
     Chemical sediments  
     Gypsum  
     Halite  
     Phosphate deposits  
     Phosphorite  
     Submarine cements

## ASFA THESAURUS

Authigenic sediments  
USE: **Authigenic minerals**

Autobiographies  
USE: **Biographies**

**Autochthonous deposits**  
RT: Allochthonous deposits  
Biogenic deposits  
Sediments

**Autocorrelation**  
UF: Autocorrelation functions  
BT: Correlation analysis  
RT: Cross correlation

Autocorrelation functions  
USE: **Autocorrelation**

**Autolysis**  
SN: Self digestion by the action of enzymes  
BT: Chemical reactions  
RT: Degradation  
Enzymes

**Automated cartography**  
UF: Computer aided cartography  
BT: Cartography  
RT: Automated recording  
Automation

Automated data processing  
USE: **Data processing**

**Automated recording**  
SN: Automated techniques for determination of physico-chemical properties of water  
UF: Automated techniques  
RT: Analytical techniques  
Automated cartography  
Automation

Automated techniques  
USE: **Automated recording**

**Automation**  
RT: Automated cartography  
Automated recording  
Computers  
Data processing  
Mechanization  
Remote control  
Robots

**Autonomic nervous system**  
SN: Before 1982 search NERVOUS SYSTEM  
UF: ANS

Parasympathetic nervous system  
Sympathetic nervous system  
BT: Nervous system

**Autopilots**  
RT: Navigation systems  
Navigational aids

Autoradiographic techniques  
USE: **Autoradiography**

**Autoradiography**  
UF: Autoradiographic techniques  
BT: Radiography  
RT: Radioactive tracers

**Autotomy**  
SN: Voluntary separation of a part of the body  
RT: Protective behaviour  
Regeneration

**Autotrophy**  
BT: Nutritional types  
RT: Plant nutrition

**Autumn**  
UF: Fall  
Fall season  
BT: Seasons

**Auxins**  
BT: Growth regulators  
RT: Phytohormones  
Plant physiology

**Availability**  
SN: Use of a more specific term is recommended  
NT: Commercial availability  
Food availability  
Resource availability  
RT: Abundance

Available potential energy  
USE: **Potential energy**

**Avian physiology**  
SN: Before 1982 search PHYSIOLOGY  
UF: Bird physiology  
BT: Animal physiology  
RT: Aquatic birds

Avitaminosis  
USE: **Vitamin deficiencies**

Avoidance  
USE: **Avoidance reactions**

**Avoidance reactions**  
SN: Before 1982 search AVOIDANCE  
UF: Avoidance  
Net avoidance  
BT: Behaviour  
RT: Catchability  
Escapement  
Migrations

**AXBTs**  
UF: Air-deployed expendable bathythermographs  
BT: XBTs  
RT: Airborne equipment

**Axenic culture**  
SN: Growth of organisms of a single species in the absence of cells or living organisms of any other species  
RT: Monoculture

Axons  
USE: **Neurons**

**Azimuth**  
RT: Direction

**Azines**  
BT: Organic compounds  
NT: Pyridines  
Pyrimidines  
Quinolines

**Back calculation**  
RT: Approximation

Back-arc basins  
USE: **Marginal basins**

Background noise (sound)  
USE: **Ambient noise**

Backrush  
USE: **Backwash**

**Backscatter**  
UF: Sound backscatter  
BT: Sound scattering  
RT: Forward scattering  
Reverberation  
Scatterometers

Backshore  
USE: **Beach features**

**Backwash**  
UF: Backrush  
RT: Wave effects  
Wave runoff  
Waves on beaches



## ASFA THESAURUS

### Backwaters

SN: Water held back from the main flow of a river  
RT: Dams  
Lagoons  
Stream flow  
Water reservoirs

### Bacteria

SN: Use of a more specific term is recommended. In ASFA-1, use as taxonomic descriptor; in ASFA-2, use as subject descriptor  
BT: Microorganisms  
NT: Aerobic bacteria  
Anaerobic bacteria  
Pathogenic bacteria  
RT: Agglutinins  
Antigens  
Bacteria collecting devices  
Bacterial counters  
Bacterial filtration  
Bacterins  
Bacteriology  
Bacteriophages  
Bioerosion  
Decomposers  
Endotoxins  
Filter feeders  
Food poisoning  
Nannoplankton  
Single cell proteins  
Spores

### Bacteria collecting devices

BT: Collecting devices  
RT: Bacteria

### Bacterial counters

BT: Counters  
RT: Bacteria  
Bacteriology

### Bacterial diseases

UF: Bacterioses  
BT: Infectious diseases  
NT: Botulism  
Tuberculosis  
Vibriosis  
RT: Antibiotics  
Bacterins  
Bacteriology  
Boil disease  
Endotoxins  
Gill disease  
Immunization  
Pathogenic bacteria  
Peduncle disease  
Redmouth disease

### Bacterial filtration

BT: Filtration  
RT: Bacteria

### Bacterial gill disease

USE: **Gill disease**

### Bacterial haemorrhagic septicaemia

USE: **Septicaemia**

### Bacterial vaccines

USE: **Vaccines**

### Bactericides

USE: **Bacteriocides**

### Bacterins

BT: Vaccines  
RT: Bacteria  
Bacterial diseases  
Pathogens

### Bacteriocides

UF: Bactericides  
BT: Pesticides  
RT: Antibiotics  
Bacteriology

### Bacteriology

BT: Microbiology  
RT: Bacteria  
Bacterial counters  
Bacterial diseases  
Bacteriocides  
Bacteriophages  
Bioassays  
Endotoxins  
Epidemiology  
Parasitology

### Bacteriophages

RT: Bacteria  
Bacteriology  
Transduction  
Viruses

### Bacterioplankton

USE: **Nannoplankton**

### Bacterioses

USE: **Bacterial diseases**

### Baffles (sound)

USE: **Acoustic insulation**

### Bait

SN: Including natural (dead or living) and artificial baits (lures, chemical baits, etc.)  
UF: Fishing bait  
Lures  
RT: Bait fish

Bait fishing  
Hooks  
Line fishing  
Trap fishing

### Bait culture

SN: Before 1982 search FISH CULTURE  
UF: Bait farming  
Bait fish culture  
BT: Fish culture  
RT: Bait fish  
Bait fisheries  
Brackishwater aquaculture  
Freshwater aquaculture  
Hatcheries  
Worm culture

### Bait farming

USE: **Bait culture**

### Bait fish

BT: Fish  
RT: Bait  
Bait culture  
Bait fisheries  
Bait fishing

### Bait fish culture

USE: **Bait culture**

### Bait fisheries

BT: Fisheries  
RT: Bait culture  
Bait fish  
Clupeoid fisheries

### Bait fishing

BT: Fishing  
RT: Angling  
Attracting techniques  
Bait  
Bait fish  
Ice fishing  
Line fishing  
Purse seining  
Trap fishing

### Balance (ecological)

USE: **Ecological balance**

### Balance of nature

USE: **Ecological balance**

### Balance organs

BT: Sense organs  
NT: Statocysts

### Balanced diets

BT: Diets  
RT: Balanced rations  
Nutritional requirements

## ASFA THESAURUS

Balanced polymorphism  
USE: **Biopolymorphism**

**Balanced rations**  
RT: Artificial feeding  
Balanced diets  
Nutritional requirements  
Nutritive value

**Baleens**  
UF: Whalebones  
BT: Mouth parts

**Ballast**  
RT: Ballast tanks  
Buoyancy  
Buoyancy floats  
Floating  
Loads (forces)  
Stability

**Ballast tanks**  
RT: Ballast  
Underwater vehicles

**Balloons**  
UF: Meteorological balloons  
BT: Wind measuring equipment  
RT: Meteorological instruments  
Radiosondes

Banks (financial)  
USE: **Financial institutions**

**Banks (topography)**  
BT: Topographic features  
NT: Embankments  
Mud banks  
River banks  
Sand banks  
Submarine banks

**Barbels**  
BT: Animal appendages  
RT: Tactile organs

**Barges**  
SN: Do not use for drilling structures  
BT: Surface craft  
NT: Crane barges  
Pipelaying barges  
RT: Floating structures  
Pontoons  
Towing  
Work platforms

**Barite**  
BT: Sulphate minerals  
RT: Barium  
Placers

**Barium**  
BT: Alkaline earth metals  
RT: Barite  
Barium compounds  
Barium isotopes  
Magnesium

**Barium compounds**  
BT: Alkaline earth metal compounds  
RT: Barium

**Barium isotopes**  
BT: Isotopes  
RT: Barium

**Baroclinic field**  
BT: Fields  
RT: Baroclinic mode  
Baroclinic motion

Baroclinic flow  
USE: **Baroclinic motion**

**Baroclinic instability**  
BT: Instability  
RT: Baroclinic mode  
Baroclinic motion  
Barotropic instability  
Energy transfer  
Mesoscale eddies  
Potential vorticity  
Rossby parameter

**Baroclinic mode**  
UF: Baroclinicity  
Baroclinity  
BT: Modes  
RT: Baroclinic field  
Baroclinic instability  
Baroclinic motion  
Barotropic mode  
Internal tides  
Isobaric surfaces  
Isopycnic surfaces  
Stratification  
Stratified flow

**Baroclinic motion**  
UF: Baroclinic flow  
Baroclinic waves  
BT: Fluid motion  
RT: Baroclinic field  
Baroclinic instability  
Baroclinic mode  
Barotropic motion  
Internal tides  
Stratified flow

Baroclinic tides  
USE: **Internal tides**

Baroclinic waves  
USE: **Baroclinic motion**

Baroclinicity  
USE: **Baroclinic mode**

Baroclinity  
USE: **Baroclinic mode**

Barographs  
USE: **Barometers**

**Barometers**  
UF: Barographs  
BT: Measuring devices  
RT: Atmospheric pressure  
Manometers

Barometric currents  
USE: **Wind-driven currents**

Barometric pressure  
USE: **Atmospheric pressure**

**Barotropic field**  
BT: Fields  
RT: Barotropic mode  
Barotropic motion

Barotropic flow  
USE: **Barotropic motion**

**Barotropic instability**  
BT: Instability  
RT: Baroclinic instability  
Barotropic mode  
Energy transfer  
Potential vorticity  
Unsteady flow

**Barotropic mode**  
UF: Barotropy  
BT: Modes  
RT: Baroclinic mode  
Barotropic field  
Barotropic instability  
Barotropic motion  
Conservation of vorticity  
Isobaric surfaces  
Isopycnic surfaces  
Stratification

**Barotropic motion**  
UF: Barotropic flow  
Barotropic waves  
BT: Fluid motion  
RT: Baroclinic motion  
Barotropic field  
Barotropic mode  
Barotropic tides

## ASFA THESAURUS

### Barotropic tides

BT: Tides  
RT: Barotropic motion

Barotropic waves

USE: **Barotropic motion**

Barotropy

USE: **Barotropic mode**

### Barrages

SN: Fixed structures built for the purpose of containing water for irrigation, power generation, recreation, flood control, etc.

BT: Hydraulic structures

NT: Dams

Enclosures

Tidal barrages

Weirs

RT: Barriers

Coastal structures

Containment

### Barrier beaches

BT: Beaches

RT: Barrier islands

Barrier spits

Nearshore bars

### Barrier islands

BT: Coastal landforms

Islands

RT: Barrier beaches

Barrier reefs

Barrier spits

Beach accretion

Coastal lagoons

Deposition features

Tidal inlets

### Barrier reefs

BT: Coral reefs

RT: Barrier islands

Fringing reefs

Lagoons

### Barrier spits

UF: Bay barriers

Nehrung

BT: Spits

RT: Barrier beaches

Barrier islands

Bays

Coastal lagoons

### Barriers

SN: Use of a more specific term is recommended

NT: Bubble barriers

Fishing barriers

Floating barriers

Ice barriers

Storm surge barriers

RT: Barrages

Biotic barriers

Breakwaters

Containment

Barriers (biological)

USE: **Biotic barriers**

Barriers (fishing)

USE: **Fishing barriers**

Bars

USE: **Nearshore bars**

### Basalt-seawater interaction

BT: Hydrothermal activity

RT: Hydrothermal alteration

Palagonite

Basaltic glass

USE: **Volcanic glass**

Basaltic lava

USE: **Basalts**

Basaltic layer

USE: **Sima**

### Basalts

UF: Basaltic lava

BT: Volcanic rocks

NT: Alkali basalts

Oceanite

Tholeiite

Tholeiitic basalt

RT: Lava

### Baseline studies

SN: Studies conducted in advance of an anticipated environmental change or for long-term comparison of environmental or ecological conditions

UF: Baseline surveys

Ecological baseline studies

RT: Long-term changes

Monitoring

Surveys

Baseline surveys

USE: **Baseline studies**

Basement (geology)

USE: **Basement rock**

### Basement rock

UF: Basement (geology)

BT: Earth structure

RT: Earth crust

Moho

Rocks

### Basic diets

BT: Diets

Basidiospores

USE: **Spores**

### Basins

SN: Use of a more specific term is recommended

NT: Anoxic basins

Lake basins

Ocean basins

River basins

Sedimentary basins

Structural basins

RT: Topographic features

Basket culture

USE: **Cage culture**

### Batch culture

SN: Culture of organisms in homogeneous developmental stages

BT: Aquaculture techniques

RT: Continuous culture

Culture tanks

Hatcheries

Seed production

Batch processing

USE: **Data processing**

Batfish

USE: **Undulators**

### Bathing

SN: Before 1982 search

RECREATIONAL SWIMMING

UF: Recreational swimming

Swimming (recreation)

BT: Recreation

RT: Drowning

Surfing

### Batholiths

BT: Igneous intrusions

RT: Igneous dikes

Igneous rocks

Plutons

### Bathyal zone

SN: Zone between 500 and 1000 m depth

RT: Bathyal-benthic zone

Bathypelagic zone

Pelagic environment

## ASFA THESAURUS

### **Bathyal-benthic zone**

SN: Benthic regions between 500 and 1000 m depth  
 BT: Benthic environment  
 RT: Bathyal zone  
     Bathypelagic zone  
     Mesopelagic zone

Bathygenesis

USE: **Epeirogeny**

### **Bathymeters**

BT: Measuring devices  
 NT: Laser bathymeters  
 RT: Bathymetry  
     Bathythermographs  
     Depth recorders  
     Oceanographic equipment  
     Water depth

### **Bathymetric charts**

BT: Hydrographic charts  
 RT: Bathymetric data  
     Bathymetric profiles  
     Bathymetric surveys  
     Bathymetry  
     Geological maps  
     Isobaths  
     Topographic maps  
     Vertical distribution  
     Water depth

### **Bathymetric data**

BT: Oceanographic data  
 NT: Soundings  
 RT: Bathymetric charts  
     Bathymetric profiles  
     Bathymetry  
     Geological data  
     Limnological data  
     Water depth

Bathymetric distribution

USE: **Vertical distribution**

Bathymetric observations

USE: **Soundings**

### **Bathymetric profiles**

BT: Hydrographic sections  
 RT: Bathymetric charts  
     Bathymetric data  
     Bathymetry  
     Echosounder profiles  
     Horizontal profiles  
     Water depth

### **Bathymetric surveys**

BT: Hydrographic surveys  
 RT: Bathymetric charts

Bathymetry

Cartography

Water depth

### **Bathymetry**

SN: To be used only for the operation of measuring water depth, i.e. surface to seabed

UF: Depth sounding (water)

Laser bathymetry

Sounding (water depth)

Water depth measurement

BT: Depth measurement

RT: Bathymeters

Bathymetric charts

Bathymetric data

Bathymetric profiles

Bathymetric surveys

Bottom topography

Deep water

Echosounding

Hydrographic surveys

Hydrography

Isobaths

Morphometry

Seafloor mapping

Sounding lines

Soundings

Water depth

### **Bathypelagic zone**

SN: Waters between about 500 and 4000 m depth

BT: Oceanic province

RT: Aphotic zone

Bathyal zone

Bathyal-benthic zone

Pelagic environment

### **Bathyspheres**

BT: Observation chambers

RT: Underwater exploration

### **Bathythermograms**

BT: Analog records

RT: Bathythermographic data

Bathythermographs

### **Bathythermographic data**

BT: Oceanographic data

RT: Bathythermograms

Bathythermographs

Temperature sections

Water depth

### **Bathythermographs**

SN: Devices used to record water temperature as a function of depth

UF: Mechanical bathythermographs

BT: Profilers

NT: XBTs

RT: Bathymeters

Bathythermograms

Bathythermographic data

Depth recorders

Limnological equipment

Thermometers

Water depth

Water temperature

### **Batteries**

UF: Electric batteries

BT: Electric power sources

RT: Electrical equipment

Electromagnetic power

### **Bauxite**

BT: Oxide minerals

RT: Aluminium

Clay minerals

Bay barriers

USE: **Barrier spits**

### **Bay dynamics**

BT: Shelf dynamics

RT: Bays

Estuarine dynamics

Nearshore dynamics

Wave dynamics

### **Bays**

BT: Coastal inlets

RT: Barrier spits

Bay dynamics

Estuaries

Inlets (waterways)

### **Beach accretion**

BT: Accretion

NT: Beach nourishment

RT: Barrier islands

Beach erosion

Beach features

Beach morphology

Beach ridges

Beaches

Berms

Deposition features

Progradation

Beach berms

USE: **Berms**

### **Beach cusps**

BT: Beach features

RT: Edge waves

Longshore currents

Rip currents

Shoaling

Shoaling waves

Swell

## ASFA THESAURUS

### **Beach erosion**

BT: Coastal erosion  
 RT: Beach accretion  
   Beach features  
   Beach morphology  
   Beaches  
   Coast defences  
   Dune stabilization  
   Groynes  
   Shore protection  
   Tidal effects  
   Wave effects

Beach face

USE: **Foreshore**

### **Beach features**

UF: Backshore  
 BT: Topographic features  
 NT: Beach cusps  
   Beach ridges  
   Berms  
   Dunes  
   Foreshore  
   Nearshore bars  
   Rip channels  
   Runnels  
   Spits  
   Surf zone  
   Tomboles  
   Wave-cut platforms  
 RT: Beach accretion  
   Beach erosion  
   Beach morphology  
   Beach slope  
   Beaches  
   Bed forms  
   Headlands  
   Sand ripples

Beach gradient

USE: **Beach slope**

### **Beach morphology**

UF: Beach processes  
 BT: Coastal morphology  
 RT: Beach accretion  
   Beach erosion  
   Beach features  
   Beach nourishment  
   Beach profiles  
   Beaches  
   Terraces

### **Beach nourishment**

BT: Beach accretion  
 RT: Beach morphology  
   Longshore sediment transport

Beach platforms

USE: **Wave-cut platforms**

Beach processes

USE: **Beach morphology**

### **Beach profiles**

BT: Horizontal profiles  
 RT: Beach morphology  
   Beach slope  
   Beaches  
   Break-point bars  
   Topographic surveying  
   Wave effects

### **Beach ridges**

BT: Beach features  
 NT: Cheniers  
 RT: Beach accretion  
   Deposition features  
   Shingle

Beach rock

USE: **Beachrock**

### **Beach seines**

BT: Seine nets  
 RT: Boat seines

### **Beach slope**

UF: Beach gradient  
 BT: Slopes (topography)  
 RT: Beach features  
   Beach profiles  
   Beaches

Beach temperature

USE: **Sediment temperature**

### **Beaches**

UF: Ocean beaches  
   Sandy beaches  
   Shingle beaches  
 BT: Coastal landforms  
 NT: Barrier beaches  
   Raised beaches  
 RT: Beach accretion  
   Beach erosion  
   Beach features  
   Beach morphology  
   Beach profiles  
   Beach slope  
   Coastal zone  
   Coasts  
   Dunes  
   Intertidal environment  
   Littoral zone  
   Recreational waters  
   Runnels  
   Sand  
   Surf  
   Wave processes on beaches

### **Beachrock**

UF: Beach rock  
 BT: Carbonate rocks

Beacons (distress)

USE: **Distress signals**

Beacons (transponders)

USE: **Acoustic transponders**

### **Beam transmittance**

BT: Transmittance  
 RT: Beam transmittance meters

### **Beam transmittance meters**

UF: Transparency meters  
 BT: Light measuring instruments  
 RT: Beam transmittance

Beam trawlers

USE: **Trawlers**

Beam trawls (bottom)

USE: **Bottom trawls**

Beam trawls (midwater)

USE: **Midwater trawls**

### **Bearing capacity**

BT: Strength  
 RT: Compaction  
   Loads (forces)  
   Pile driving  
   Shear strength

### **Beaufort scale**

UF: Beaufort wind scale  
 RT: Breezes  
   Gale force winds  
   Sea state scales

Beaufort wind scale

USE: **Beaufort scale**

### **Bed forms**

SN: Before 1986 search also  
   BEDFORMS  
 UF: Bedforms  
 BT: Sedimentary structures  
 NT: Antidunes  
   Gravel waves  
   Mud banks  
   Ploughmarks  
   Pock marks  
   Sand banks  
   Sand bars  
   Sand patches  
   Sand ribbons  
   Sand ripples  
   Sand waves  
   Scour hollows

(cont'd)

## ASFA THESAURUS

### *Bed forms (cont'd)*

Seachannels  
Sediment drifts  
Transverse bed forms

RT: Beach features  
Contour currents  
Current scouring  
Dunes  
Fluvial features  
Iceberg scouring  
Nearshore bars  
Oscillatory flow  
Sediment-water interface  
Submarine features  
Topographic features  
Wave scouring  
Wave-seabed interaction

### Bed friction

USE: **Bottom friction**

### Bed load

UF: Bedload  
Bottom load  
Traction load  
BT: Sediment load  
RT: River beds  
Saltation  
Sediment transport  
Shelf geology  
Shelf sedimentation  
Suspended load  
Traction

### Bed roughness

UF: Bottom roughness  
BT: Roughness  
RT: Bottom friction  
Drag coefficient  
Form drag  
River beds

### Bed shear stress

USE: **Bottom stress**

### Bed stress

USE: **Bottom stress**

### Bedding structures

SN: Use of a more specific term is recommended  
BT: Sedimentary structures  
NT: Current marks  
Ripple marks  
Varves

### Bedforms

USE: **Bed forms**

### Bedload

USE: **Bed load**

### Behavior

USE: **Behaviour**

### Behaviour

SN: Use of a more specific term is recommended  
UF: Animal behaviour  
Behavior  
NT: Aggressive behaviour  
Agonistic behaviour  
Avoidance reactions  
Chromatic behaviour  
Cleaning behaviour  
Competitive behaviour  
Display behaviour  
Exploratory behaviour  
Feeding behaviour  
Flight behaviour  
Homing behaviour  
Hydrostatic behaviour  
Learning behaviour  
Migrations  
Orientation behaviour  
Parental behaviour  
Protective behaviour  
Reproductive behaviour  
Settling behaviour  
Sexual behaviour  
Social behaviour  
Territoriality  
Vocalization behaviour  
RT: Activity patterns  
Adaptations  
Animal communication  
Antagonism  
Behavioural responses  
Biological rhythms  
Echolocation  
Ethology  
Instinct  
Interspecific relationships  
Intraspecific relationships  
Niches  
Phenology  
Synergism  
Tropism

### Behavioural responses

SN: As observed in experimental conditions  
RT: Behaviour  
Stimuli

### Bench marks

RT: Datum levels  
Levelling  
Sea level measurement  
Surveys

### Bending

USE: **Deformation**

### Bends

USE: **Decompression sickness**

### Benioff seismic zone

USE: **Benioff zone**

### Benioff zone

UF: Benioff seismic zone  
BT: Earth structure  
RT: Lithosphere  
Oceanic trenches  
Plate tectonics  
Seismic zones  
Subduction zones

### Benjamin Feir instability

BT: Instability  
RT: Wave trains

### Benthic algae

USE: **Phytoplankton**

### Benthic boundary layer

UF: Benthic layer  
Bottom boundary layer  
BT: Boundary layers  
RT: Benthic currents  
Bottom Ekman layer  
Bottom mixed layer  
Deep layer  
Water column  
Wave-seabed interaction

### Benthic communities

USE: **Benthos**

### Benthic currents

SN: Water currents at +4000 m depth  
BT: Bottom currents  
RT: Abyssal currents  
Benthic boundary layer  
Bottom Ekman layer

### Benthic environment

UF: Benthic regions  
BT: Aquatic environment  
NT: Abyssobenthic zone  
Bathyal-benthic zone  
Littoral zone  
RT: Benthos  
Interstitial environment  
Intertidal environment  
Lenitic environment  
Lotic environment  
Marine environment  
Sediment-water interface  
Substrata

### Benthic fauna

USE: **Zoobenthos**

## ASFA THESAURUS

Benthic flora  
USE: **Phytobenthos**

**Benthic fronts**  
BT: Oceanic fronts

Benthic infauna  
USE: **Burrowing organisms**

Benthic layer  
USE: **Benthic boundary layer**

Benthic regions  
USE: **Benthic environment**

Benthon  
USE: **Benthos**

**Benthos**  
UF: Benthic communities  
Benthon  
Epibenthos  
Macrobenthos  
Microbenthos  
BT: Aquatic communities  
NT: Meiobenthos  
Phytobenthos  
Zoobenthos  
RT: Benthic environment  
Benthos collecting devices  
Burrowing organisms  
Ecological zonation  
Interstitial environment  
Sessile species  
Substrata  
Tube dwellers

**Benthos collecting devices**  
BT: Collecting devices  
RT: Benthos  
Seafloor sampling

**Bentonite**  
BT: Clastics  
RT: Lutites  
Montmorillonite  
Volcanic ash

**Benzene**  
BT: Aromatic hydrocarbons

**Berms**  
UF: Beach berms  
BT: Beach features  
RT: Beach accretion  
Deposition features  
Sand

**Berthing**  
SN: Use for both docking vessel  
and action of securing vessel to  
mooring buoy

UF: Docking  
Mooring ships  
NT: Offshore docking  
RT: Anchoring  
Anchors  
Mooring buoys  
Offshore terminals  
Positioning systems  
Ship mooring systems

**Beryllium**  
BT: Alkaline earth metals  
RT: Beryllium isotopes

**Beryllium isotopes**  
BT: Isotopes  
RT: Beryllium

**Beta spirals**  
RT: Coriolis parameters

**Beta-plane**  
RT: Coriolis parameters  
Equatorial dynamics  
Rossby parameter  
Vorticity

**Bibliographic information**  
UF: Annotation  
Bibliographic studies  
RT: Bibliographies  
Documentation

Bibliographic studies  
USE: **Bibliographic information**

**Bibliographies**  
UF: Reading lists  
BT: Documents  
NT: Personal bibliographies  
RT: Bibliographic information  
Literature reviews

**Bicarbonates**  
BT: Carbonates

**Biennial**  
BT: Periodicity  
RT: Annual

**Bilateral agreements**  
UF: Bilateral aid  
BT: International agreements  
RT: Joint ventures

Bilateral aid  
USE: **Bilateral agreements**

**Bile**  
SN: Before 1982 search BODY  
FLUIDS  
UF: Bile pigments

Bile salts  
BT: Body fluids  
RT: Fats  
Gall bladder  
Liver

Bile pigments  
USE: **Bile**

Bile salts  
USE: **Bile**

Billfisheries  
USE: **Tuna fisheries**

**Billows**  
UF: Kelvin-Helmholtz billows  
BT: Fluid motion  
RT: Internal waves  
Kelvin-Helmholtz instability

Binders (adhesives)  
USE: **Adhesives**

**Bioaccumulation**  
SN: Biological uptake and  
accumulation or concentration  
in the tissues  
BT: Accumulation  
Biological phenomena  
RT: Excretion  
Lethal effects  
Pollution effects  
Pollution tolerance  
Sublethal effects  
Toxicity tolerance

**Bioacoustics**  
BT: Acoustics  
RT: Biological noise  
Biology  
Biophysics  
Biotelemetry  
Sound production  
Vocalization behaviour

**Bioactive compounds**

**Bioaeration**  
SN: Sewage purification by  
oxidation  
BT: Aeration  
Sewage treatment

**Bioassays**  
UF: Biological assays  
BT: Tests  
RT: Bacteriology  
Biotesting  
Immunoassays  
Test organisms  
Toxicity tests

## ASFA THESAURUS

### **Biocalcarenite**

BT: Carbonate rocks  
RT: Calcarene

Biocenosis

USE: **Biocoenosis**

### **Biochemical analysis**

BT: Analysis  
RT: Biochemical composition  
Biochemistry  
Electrophoresis  
Organic constituents

### **Biochemical composition**

BT: Composition  
RT: Biochemical analysis  
Biochemistry  
Organic constituents  
Water content

### **Biochemical cycles**

BT: Chemical cycles  
RT: Biogeochemical cycle  
Chemical degradation

### **Biochemical oxygen demand**

SN: Before 1982 search also  
BIOLOGICAL OXYGEN  
DEMAND  
UF: Biological oxygen demand  
BOD  
BT: Oxygen demand  
RT: Aerobic respiration  
Biochemical phenomena  
Chemical oxygen demand  
Coagulation  
Metabolism  
Oxygenation  
Self purification  
Water quality

### **Biochemical phenomena**

NT: Calcification  
Decalcification  
Protein denaturation  
Protein synthesis  
RT: Biochemical oxygen demand  
Biochemistry  
Biodegradation  
Biological phenomena  
Chemical reactions  
Metabolism  
Nitrogen fixation

### **Biochemistry**

UF: Physiochemistry  
BT: Chemistry  
NT: Cytochemistry  
Histochemistry  
RT: Biochemical analysis  
Biochemical composition

Biochemical phenomena  
Biogeochemical cycle  
Biogeochemistry  
Pharmacology  
Physiology

Biocides

USE: **Pesticides**

### **Bioclimatology**

SN: The study of the effects of  
climate on living organisms  
UF: Biological climatology  
Biometeorology  
BT: Climatology  
RT: Hydroclimate  
Temperature effects

### **Biocoenosis**

SN: A group of plants and animals  
forming a natural community  
UF: Biocenosis  
RT: Aquatic communities  
Biota  
Biomes  
Community composition  
Ecological associations  
Habitat

Biocommunication

USE: **Animal communication**

Biocontrol

USE: **Biological control**

### **Biodegradable substances**

SN: Substances that can be broken  
down by microorganisms  
RT: Anaerobic digestion  
Biodegradation

### **Biodegradation**

UF: Microbial degradation  
BT: Degradation  
NT: Anaerobic digestion  
RT: Biochemical phenomena  
Biodegradable substances  
Biogeochemical cycle  
Decomposers  
Degeneration  
Sewage treatment  
Sludge treatment  
Wastewater treatment  
Water pollution treatment

Biodeposition

USE: **Detritus**

Biodeterioration

USE: **Biological damage**

### **Biodiversity**

UF: Ecosystem diversity  
Habitat diversity  
RT: Genetic diversity  
Species diversity

### **Bioelectricity**

SN: The production of electricity  
by living animals  
BT: Biological properties  
RT: Biophysics  
Defence mechanisms  
Electric organs

Bioenergetic studies

USE: **Bioenergetics**

### **Bioenergetics**

SN: Energy transformation in living  
organisms and aquatic  
ecosystems. Before 1982 search  
ENERGY BUDGET  
UF: Bioenergetic studies  
RT: Conversion factors  
Ecosystems  
Energy budget  
Food chains  
Food consumption  
Metabolism

Bioengineering

USE: **Biotechnology**

### **Bioerosion**

UF: Erosion (biological)  
RT: Bacteria  
Biological damage  
Boring organisms  
Fungi

Bioevolution

USE: **Evolution**

### **Biofacies**

BT: Facies  
RT: Biostratigraphy  
Ecology  
Fossils  
Palaeontology  
Sedimentation

### **Biofilms**

### **Biofilters**

UF: Biological filters  
Subgravel filters  
BT: Filters  
RT: Recirculating systems  
Water treatment

### **Biogas**

BT: Gases



## ASFA THESAURUS

### Biogenesis

SN: Before 1982 search  
EVOLUTION  
BT: Biological phenomena  
RT: Biogeny  
Evolution  
Reproduction

### Biogenic deposits

UF: Biogenic sediments  
BT: Sediments  
NT: Coral reefs  
Organic sediments  
Siliceous sediments  
RT: Autochthonous deposits  
Biogenic material  
Oozes

### Biogenic material

SN: Material of biological origin  
UF: Biogenous material  
BT: Materials  
RT: Biogenic deposits  
Detritus  
Suspended organic matter  
Trophodynamic cycle

### Biogenic sedimentary structures

BT: Sedimentary structures  
NT: Algal mats  
Stromatolites  
Trace fossils  
RT: Bioturbation  
Coral reefs

Biogenic sediments

USE: **Biogenic deposits**

Biogenous material

USE: **Biogenic material**

### Biogeny

SN: The science of the evolution of organisms, comprising ontogeny and phylogeny. Before 1982 search EVOLUTION  
NT: Ontogeny  
Phylogeny  
RT: Biogenesis  
Evolution

### Biogeochemical cycle

SN: Complete cycle between organic matter in aquatic ecosystems. Before 1982 search BIOCHEMICAL CYCLE  
BT: Geochemical cycle  
NT: Nutrient cycles  
RT: Biochemical cycles  
Biochemistry  
Biodegradation  
Biogeochemistry

Biological clocks

Chemical degradation

Detritus

Oxidation

Photosynthesis

Primary production

Suspended particulate matter

### Biogeochemistry

BT: Geochemistry  
RT: Biochemistry  
Biogeochemical cycle  
Biology  
Pyrolysis  
Sediment chemistry  
Sulphate reduction

### Biogeography

UF: Chorology  
Phytogeography  
Zoogeography  
BT: Geography  
RT: Aquatic animals  
Aquatic plants  
Biological charts  
Biology  
Botany  
Cosmopolite species  
Ecological distribution  
Ecology  
Endemic species  
Endemism  
Faunal provinces  
Hydroclimate  
Ichthyology  
Phytosociology  
Zoology

### Biographies

UF: Autobiographies  
BT: Documents

### Bioherms

BT: Reefs  
RT: Coral reefs  
Limestone

Bioindicator organisms

USE: **Indicator species**

Bioindicators

USE: **Indicator species**

### Biological age

UF: Age (biological)  
Age (organisms)  
BT: Age  
NT: Age at recruitment  
RT: Biological aging  
Growth  
Life cycle  
Longevity

### Biological aging

UF: Ageing (biological)  
Aging (biological)  
Senescence  
BT: Aging  
RT: Age composition  
Age determination  
Biological age  
Growth  
Life cycle  
Longevity

Biological assays

USE: **Bioassays**

### Biological attachment

UF: Attachment (biological)  
NT: Parasite attachment  
RT: Attachment organs

Biological balance

USE: **Ecological balance**

### Biological charts

SN: Distributional charts of aquatic organisms, aquatic communities, living resources and their migrations  
BT: Maps  
RT: Aquatic communities  
Biogeography  
Distribution records  
Geographical distribution  
Quantitative distribution

Biological classification

USE: **Taxonomy**

Biological climatology

USE: **Bioclimatology**

### Biological clocks

RT: Biogeochemical cycle  
Biological rhythms

### Biological collections

SN: Museum collections and comparative collections of aquatic organisms  
BT: Collections

Biological competition

USE: **Competition**

### Biological control

SN: Use of organisms or viruses to control parasites, aquatic weeds or other pests  
UF: Biocontrol  
BT: Control  
RT: Biological vectors

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## ASFA THESAURUS

### *Biological control (cont'd)*

- Fouling control
- Pest control
- Plant control
- Predator control
- Protozoan diseases
- Viral diseases

Biological corrosion

USE: **Biological damage**

Biological culture

USE: **Laboratory culture**

### **Biological damage**

SN: Damage caused by aquatic organisms

UF: Biodeterioration

- Biological corrosion

- Biological deterioration

- Damage (biological)

BT: Damage

RT: Bioerosion

- Boring organisms

- Dangerous organisms

- Fouling organisms

### **Biological data**

BT: Data

RT: Biological sampling

- Biological surveys

- Census

Biological dating

USE: **Age determination**

Biological deterioration

USE: **Biological damage**

### **Biological development**

SN: Before 1982 search

- DEVELOPMENT

- (BIOLOGICAL). Restricted to development processes of organisms

UF: Development (biological)

NT: Embryonic development

- Larval development

RT: Developmental stages

- Growth

- Life cycle

- Ontogeny

### **Biological drift**

UF: Drift (biological)

BT: Dispersion

RT: Biotic barriers

- Wind-driven currents

Biological engineering

USE: **Biotechnology**

Biological equilibrium

USE: **Ecological balance**

### **Biological fertilization**

UF: External fertilization

- Fertilization (biological)

- Internal fertilization

- Reproductive fertilization

- Syngamy

BT: Sexual reproduction

RT: Polyspermy

- Sexual cells

- Spermatophores

Biological filters

USE: **Biofilters**

### **Biological half life**

SN: Time required by the body to

- eliminate one-half of the

- administered dose of any substance by regular process of elimination

UF: Biological half time

- Half life (biological)

- Half life (effective)

RT: Body burden

- Radionuclide kinetics

Biological half time

USE: **Biological half life**

### **Biological institutions**

BT: Research institutions

RT: Limnological institutions

- Oceanographic institutions

Biological limnology

USE: **Freshwater ecology**

### **Biological membranes**

UF: Membranes (biological)

BT: Membranes

RT: Cell membranes

- Ion exchange

- Ion transport

### **Biological noise**

SN: Sound emitted by marine animals present on echo trace

UF: Fish sounds

- Marine biological noise

BT: Ambient noise

RT: Bioacoustics

- Sound production

- Sound waves

Biological oceanography

USE: **Marine ecology**

Biological oxygen demand

USE: **Biochemical oxygen demand**

### **Biological phenomena**

UF: Phenomena (biological)

NT: Adaptations

- Allergic reactions

- Bioaccumulation

- Biogenesis

- Biological rhythms

- Biosynthesis

- Degeneration

- Encystment

- Evolution

- Metamorphosis

- Mutations

- Regeneration

RT: Biochemical phenomena

- Bioluminescence

- Interspecific relationships

- Intraspecific relationships

### **Biological poisons**

SN: Before 1982 search POISONS (BIOLOGICAL)

UF: Biotoxins

- Poisons (biological)

- Toxins

- Venoms

BT: Hazardous materials

NT: Ciguatoxin

- Endotoxins

- Neurotoxins

- Tetrodotoxin

RT: Algal blooms

- Antibodies

- Detoxification

- Lethal effects

- Lethal limits

- Metabolites

- Poisonous organisms

- Red tides

- Sublethal effects

- Toxicity

- Toxicology

- Venom apparatus

### **Biological pollutants**

SN: Pollutants having a biological origin

BT: Pollutants

RT: Biological production

- Culture effects

- Microbial contamination

Biological polymorphism

USE: **Biopolymorphism**

### **Biological production**

SN: Organic production in aquatic environment, including dynamic parameters. Before 1982 search PRODUCTION (BIOLOGICAL)

(cont'd)

## ASFA THESAURUS

### *Biological production (cont'd)*

UF: Natural increase  
 Natural production  
 Organic production  
 Production (biological)  
 Production rate  
 NT: Primary production  
 Secondary production  
 RT: Biological pollutants  
 Biomass  
 Density dependence  
 Ecosystems  
 Environmental effects  
 Fertility  
 Food webs  
 Nutrient cycles  
 Nutrients (mineral)  
 Oxygen demand  
 Plankton equivalents  
 Trophic levels  
 Trophodynamic cycle  
 Yield

### **Biological properties**

BT: Properties  
 NT: Bioelectricity  
 Biological resistance  
 Euryhalinity  
 Eurythermy  
 Fecundity  
 Heterosis  
 Homoiothermy  
 Immunity  
 Longevity  
 Neoteny  
 Poikilothermy  
 Sexual maturity  
 Stenohalinity  
 Stenothermy  
 Tolerance  
 Toxicity  
 Vulnerability  
 RT: Bioluminescence  
 Fluorescence  
 Instinct  
 Phosphorescence  
 Physicochemical properties

### **Biological rafting**

SN: Transport of sediment by aquatic organisms  
 BT: Rafting  
 RT: Bioturbation  
 Sediments

### **Biological resistance**

SN: Use of a more specific term is recommended  
 UF: Resistance (biological)  
 BT: Biological properties  
 NT: Cold resistance  
 Control resistance

Disease resistance  
 Drought resistance  
 Drug resistance  
 Parasite resistance  
 RT: Ecophysiology  
 Environmental effects  
 Resistance mechanisms  
 Tolerance

Biological resources

USE: **Living resources**

### **Biological rhythms**

SN: A repeated cyclic change in the behaviour of organisms  
 UF: Biorhythms  
 Endogenous rhythms  
 Rhythms (biological)  
 BT: Biological phenomena  
 NT: Circadian rhythms  
 Nyctimeral rhythms  
 RT: Activity patterns  
 Autecology  
 Behaviour  
 Biological clocks  
 Ecological distribution  
 Phenology  
 Photoperiodicity  
 Vertical migrations

### **Biological sampling**

SN: Before 1982 search  
 SAMPLING (BIOLOGICAL).  
 Sampling methods and techniques for aquatic animals and plants  
 UF: Sampling (biological)  
 BT: Sampling  
 RT: Biological data  
 Biological surveys  
 Biometrics  
 Census  
 Collecting devices  
 Statistical sampling

Biological sciences

USE: **Biology**

Biological selection

USE: **Bioselection**

### **Biological settlement**

SN: Before 1982 search  
 SETTLEMENT (BIOLOGICAL)  
 UF: Settlement (biological)  
 NT: Algal settlements  
 Larval settlement  
 RT: Colonization  
 Settling behaviour  
 Substrate preferences

### **Biological speciation**

SN: Before 1982 search  
 SPECIATION (BIOLOGICAL)  
 UF: Speciation (biological)  
 RT: Bioselection  
 Breeding  
 Ecotypes  
 Evolution  
 Genetics  
 Isolating mechanisms  
 Mutations  
 New species  
 Phylogenetics  
 Phylogeny  
 Population genetics  
 Species  
 Taxonomy

### **Biological stress**

SN: Physiological condition of a tissue, organ or organism which is unable to respond normally to a stimulus without rest.  
 Before 1982 search FATIGUE (BIOLOGICAL)  
 UF: Fatigue (biological)  
 Stress (biological)  
 Stress (physiological)  
 RT: Stimuli  
 Stress (mechanics)

### **Biological surveys**

BT: Surveys  
 NT: Plankton surveys  
 RT: Biological data  
 Biological sampling  
 Community composition  
 Environmental surveys

Biological testing

USE: **Biotesting**

Biological tissues

USE: **Tissues**

Biological transplantation

USE: **Transplants**

### **Biological vectors**

SN: Organisms serving as passive carrier of a disease agent.  
 Before 1982 search VECTORS (BIOLOGICAL)  
 BT: Vectors  
 RT: Biological control  
 Hosts  
 Parasites  
 Parasitic diseases  
 Protozoan diseases

## ASFA THESAURUS

### **Biologists**

UF: Aquatic biologists  
Hydrobiologists  
BT: Scientific personnel  
NT: Algologists  
Botanists  
Fishery biologists  
Microbiologists  
Taxonomists  
Zoologists  
RT: Biology

### **Biology**

SN: Before 1982 search  
BIOLOGICAL SCIENCES. Use  
of a more specific term is  
recommended  
UF: Biological sciences  
Life sciences (biology)  
NT: Anatomy  
Botany  
Cryobiology  
Cytology  
Embryology  
Fishery biology  
Functional morphology  
Genetics  
Haematology  
Histology  
Hydrobiology  
Microbiology  
Molecular biology  
Organism morphology  
Physiology  
Zoology  
RT: Bioacoustics  
Biogeochemistry  
Biogeography  
Biologists  
Biophysics  
Biotechnology  
Ecology  
Life history

### **Bioluminescence**

SN: Biological fluorescence and  
phosphorescence produced by  
photogenic or luminous organs  
or organisms  
BT: Luminescence  
RT: Biological phenomena  
Biological properties  
Chemiluminescence  
Fluorescence  
Phosphorescence  
Photophores

### **Bio-manipulation**

### **Biomarkers**

### **Biomass**

UF: Live weight  
Population abundance (in  
weight)  
Population size (in weight)  
Standing crop (in weight)  
Standing stock (in weight)  
BT: Population characteristics  
RT: Abundance  
Biological production  
Plankton equivalents  
Population density  
Population number  
Quantitative distribution  
Yield

### **Biostatistics**

USE: **Biometrics**

### **Biometeorology**

USE: **Bioclimatology**

### **Biometrics**

UF: Biomathematics  
Biometry  
Biostatistics  
RT: Biological sampling  
Mathematics  
Numerical taxonomy  
Statistical analysis  
Statistics

### **Biometry**

USE: **Biometrics**

### **Bionomics**

USE: **Ecology**

### **Biophysics**

BT: Physics  
RT: Bioacoustics  
Bioelectricity  
Biology  
Physiology

### **Bioplasm**

USE: **Cytoplasm**

### **Biopolymorphism**

SN: Before 1982 search  
POLYMORPHISM  
(BIOLOGICAL)  
UF: Balanced polymorphism  
Biological polymorphism  
Genetic polymorphism  
Polymorphism (biological)  
Transient polymorphism  
NT: Cyclomorphosis  
RT: Organism morphology  
Population genetics  
Sexual dimorphism

### **Bioreactors**

### **Bioremediation**

Biorhythms  
USE: **Biological rhythms**

### **Bioselection**

UF: Biological selection  
Selection (biological)  
NT: Genetic drift  
Natural selection  
Sexual selection  
RT: Biological speciation  
Evolution  
Mutations  
Phylogeny

### **Biosociology**

USE: **Synecology**

### **Biostatistics**

USE: **Biometrics**

### **Biostratigraphy**

BT: Stratigraphy  
RT: Biofacies  
Fossil assemblages

### **Biosynthesis**

BT: Biological phenomena  
RT: Biotechnology  
Chemosynthesis  
Enzymatic activity  
Pearls  
Photosynthesis

### **Biota**

SN: Collective flora and fauna of a  
given region, a specific  
habitat or a biotope  
RT: Aquatic communities  
Biocoenosis  
Biomes  
Community composition  
Fauna  
Flora  
Habitat

### **Biotechnology**

SN: Engineering methods of  
achieving biosynthesis of animal  
and plant products, including  
genetic engineering. Before 1986  
search also BIOENGINEERING  
UF: Bioengineering  
Biological engineering  
Genetic engineering  
BT: Technology

(cont'd)

## ASFA THESAURUS

### *Biotechnology (cont'd)*

RT: Biology  
 Biosynthesis  
 Biotelemetry  
 Medicine  
 Ultrastructure

### **Biotelemetry**

SN: Instrumentation and application of the technique of remote signaling by means of ultrasonic or radio signals from a transmitter on or in an animal.  
 Before 1982 search  
**TELEMETRY**  
 UF: Marine biotelemetry  
 Underwater biotelemetry  
 BT: Telemetry  
 RT: Bioacoustics  
 Biotechnology  
 Sonic tags  
 Tagging  
 Tracking

### **Biotesting**

SN: Bioassays for testing degree of toxicity  
 UF: Biological testing  
 BT: Testing  
 RT: Bioassays  
 Lethal effects  
 Sublethal effects  
 Toxicity  
 Toxicity tests

### **Biotic barriers**

SN: Biotic limitations affecting the dispersal and/or survival of organisms  
 UF: Barriers (biological)  
 RT: Barriers  
 Biological drift  
 Biotic factors

### Biotic diseases

USE: **Infectious diseases**

### Biotic environment

USE: **Biotic factors**

### **Biotic factors**

SN: Before 1982 search  
**ENVIRONMENTAL FACTORS**  
 UF: Biotic environment  
 Density-dependent factors  
 BT: Environmental factors  
 RT: Biotic barriers  
 Density dependence  
 Food availability  
 Group effects  
 Interspecific relationships  
 Stocking density

### Biotic natural resources

USE: **Living resources**

### **Biotic pressure**

SN: Activities of an enlarging population to maintain itself and spread  
 UF: Population pressure  
 Pressure (populations)  
 RT: Competition  
 Food availability  
 Natural mortality  
 Population control  
 Population density

### Biotin

USE: **Vitamin B**

### **Biotite**

BT: Micas  
 RT: Kimberlites

### **Biotopes**

BT: Habitat  
 RT: Aquatic environment  
 Biocoenosis  
 Biota  
 Ecological associations  
 Microhabitats  
 Niches

### Biotoxins

USE: **Biological poisons**

### **Bioturbation**

SN: Sediments disturbance by organisms  
 BT: Sediment mixing  
 RT: Biogenic sedimentary structures  
 Biological rafting  
 Burrowing organisms  
 Diagenesis  
 Mixing processes  
 Sediments

### **Bipolar distribution**

UF: Bipolarity  
 BT: Horizontal distribution

### Bipolarity

USE: **Bipolar distribution**

### **Bird eggs**

BT: Eggs  
 RT: Albumins  
 Clutch  
 Nesting  
 Nests

### Bird flight behaviour

USE: **Flight behaviour**

### Bird flying

USE: **Flying**

### Bird navigation

USE: **Animal navigation**

### Bird physiology

USE: **Avian physiology**

### Birds (aquatic)

USE: **Aquatic birds**

### Birds (marine)

USE: **Marine birds**

### **Birnessite**

BT: Oxide minerals

### Birth

USE: **Parturition**

### Bisexuality

USE: **Hermaphroditism**

### **Bismuth**

BT: Heavy metals  
 RT: Bismuth compounds  
 Bismuth isotopes

### **Bismuth compounds**

BT: Chemical compounds  
 RT: Bismuth

### **Bismuth isotopes**

BT: Isotopes  
 RT: Bismuth

### **Bitumens**

UF: Pitch (mineral)  
 BT: Petroleum hydrocarbons  
 RT: Oil sands  
 Petroleum residues

### **Bladders**

SN: Any membrane sac containing gas or fluid  
 BT: Animal organs  
 NT: Gall bladder  
 Swim bladder  
 RT: Excretory organs

### **Blasting**

SN: Controlled use of explosives  
 RT: Detonators  
 Explosions  
 Explosives

### Blastospores

USE: **Spores**

## ASFA THESAURUS

### **Bleaching**

SN: Bleaching of corals, etc.; not used for pulp mills

Blind spot

USE: **Retinas**

Block fillets

USE: **Fish fillets**

### **Blood**

UF: Blood liquids

Plasma (blood)

BT: Body fluids

RT: Albumins

Blood cells

Blood circulation

Blood groups

Blood vessels

Circulatory system

Connective tissues

Haematology

Haemocyanins

Hypercapnia

Lipoproteins

Myoglobins

Serological studies

### **Blood cells**

UF: Haematoblasts

BT: Cells

NT: Erythrocytes

Hepatocytes

Leukocytes

Lymphocytes

Macrophages

RT: Agglutinins

Antigens

Blood

Cholesterol

Haemoglobins

Haemopoiesis

Blood chemistry

USE: **Haematology**

### **Blood circulation**

UF: Blood flow

BT: Circulation

RT: Blood

Blood pressure

Blood vessels

Circulatory system

Heart

Blood diseases

USE: **Haematological diseases**

Blood flow

USE: **Blood circulation**

### **Blood groups**

SN: Types of blood classified on the basis of the different antigens present

UF: Blood types

RT: Antigens

Blood

Haematology

Blood liquids

USE: **Blood**

### **Blood pressure**

BT: Pressure

RT: Blood circulation

Circulatory system

Blood types

USE: **Blood groups**

### **Blood vessels**

UF: Arteries

Veins

Venules

BT: Circulatory system

RT: Blood

Blood circulation

Connective tissues

Haemorrhage

Heart

Blooms

USE: **Algal blooms**

### **Blowout control**

BT: Control

RT: Blowout preventers

Blowouts

### **Blowout preventers**

RT: Blowout control

Blowouts

Wellheads

### **Blowouts**

SN: Pertains to oil and gas well blowouts

UF: Gas well blowouts

Oil well blowouts

RT: Blowout control

Blowout preventers

Fire

Fire hazards

### **Blue whale unit**

UF: BWU

RT: Quota regulations

Whaling

Whaling regulations

Whaling statistics

Blueprints

USE: **Engineering drawings**

Boat dredges

USE: **Dredges**

### **Boat seines**

UF: Danish seines

Pair seines

Scottish seines

BT: Seine nets

RT: Beach seines

### **Boating**

UF: Canoeing

Sailing

BT: Recreation

NT: Yachting

### **Boats**

UF: Rafts

BT: Surface craft

NT: Canoes

Catamarans

Lifeboats

Motor boats

Row boats

RT: Dredges

BOD

USE: **Biochemical oxygen demand**

### **Body burden**

SN: The amount of radioactive material present in the body of a human or animal

RT: Biological half life

Pollutants

Radioactive contamination

Radionuclide kinetics

### **Body cavities**

SN: Before 1982 search BODY

CAVITY

NT: Coelom

Mantle cavity

RT: Body walls

Haemolymph

### **Body conditions**

UF: Fat content

RT: Body weight

Condition factor

Nutritional requirements

Body deformations

USE: **Abnormalities**

## ASFA THESAURUS

### Body fluids

UF: Body liquids  
BT: Fluids  
NT: Bile  
Blood  
Coelomic fluids  
Haemolymph  
Lymph  
Mucus  
Serum  
Urine  
RT: Amoebocytes  
Colloids

Body liquids

USE: **Body fluids**

### Body organs

SN: A part of an organism that forms a structural and functional unit  
UF: Organs (body)  
BT: Anatomical structures  
NT: Animal organs  
Attachment organs  
Plant organs  
RT: Organ removal  
Organogenesis  
Regeneration  
Transplants

### Body regions

UF: Animal body regions  
BT: Anatomical structures  
NT: Abdomen  
Anus  
Cephalothorax  
Head  
Thorax  
RT: Animal morphology  
Animal organs  
Body shape  
Body size

### Body shape

RT: Body regions  
Body size  
Body weight  
Length-weight relationships

### Body size

RT: Animal morphology  
Body regions  
Body shape  
Body weight  
Length-weight relationships

### Body temperature

BT: Temperature  
RT: Aestivation  
Heat balance  
Hibernation

Homoiothermy  
Hyperthermia  
Hypothermia  
Metabolism  
Poikilothermy  
Thermal stimuli  
Thermoregulation

### Body walls

NT: Mantle  
RT: Body cavities  
Skin

### Body waves

SN: Use of a more specific term is recommended  
BT: Seismic waves  
NT: P-waves  
S-waves

### Body weight

RT: Body conditions  
Body shape  
Body size  
Length-weight relationships

### Boehmite

BT: Oxide minerals

Bogs

USE: **Marshes**

### Boil disease

SN: Before 1982 search  
PARASITIC DISEASES  
UF: Bubonic disease  
Fish furunculosis  
Furunculosis  
Red boil disease  
BT: Fish diseases  
RT: Bacterial diseases  
Parasitic diseases

### Boiling point

BT: Transition temperatures

### Boluses

BT: Water mass intrusions  
RT: Cascading  
Overflow

Bonding

USE: **Adhesion**

### Bone necrosis

UF: Osteonecrosis  
RT: Diving physiology  
Underwater medicine

### Bones

BT: Endoskeleton  
NT: Skull

Vertebrae

RT: Calcification  
Connective tissues  
Decalcification  
Osteology  
Otoliths

Bonito fisheries

USE: **Tuna fisheries**

### Bony fins

UF: Bony rays  
BT: Fins  
RT: Exoskeleton  
Meristic counts

Bony rays

USE: **Bony fins**

### Book catalogues

SN: Use only for listings of books, periodicals, etc. issued by publishers and antiquarian dealers  
BT: Catalogues

Boomerang corers

USE: **Corers**

Booms

USE: **Floating barriers**

Booster stations

USE: **Pump stations**

Bora

USE: **Local winds**

### Borate minerals

UF: Borates  
BT: Minerals  
NT: Borax  
RT: Boron  
Evaporites

Borates

USE: **Borate minerals**

### Borax

BT: Borate minerals

Borderland (continental)

USE: **Continental margins**

### Boreholes

UF: Drill holes  
RT: Cores  
Drilling  
Hole re-entry  
Well logging

## ASFA THESAURUS

Borers  
USE: **Boring organisms**

Bores  
USE: **Tidal bores**

Bores in estuaries  
USE: **Tidal bores**

**Boric acid**  
SN: Before 1982 search  
INORGANIC ACIDS  
BT: Inorganic acids  
RT: Boron  
Boron compounds

Boring  
USE: **Drilling**

**Boring organisms**  
UF: Borers  
BT: Aquatic organisms  
RT: Aquatic insects  
Bioerosion  
Biological damage  
Fouling organisms

**Boron**  
BT: Nonmetals  
RT: Borate minerals  
Boric acid  
Boron compounds  
Boron isotopes

**Boron compounds**  
BT: Chemical compounds  
RT: Boric acid  
Boron  
Organic compounds

**Boron isotopes**  
BT: Isotopes  
RT: Boron

**Botanical resources**  
UF: Algae resources  
Aquatic botanical resources  
Aquatic plant resources  
Plant resources  
Seagrass resources  
Seaweed resources  
BT: Living resources  
RT: Aquatic plants

**Botanists**  
BT: Biologists  
RT: Botany  
Taxonomists

**Botany**  
UF: Phytology  
BT: Biology

NT: Algology  
RT: Aquatic plants  
Biogeography  
Botanists  
Palaeontology  
Palynology  
Phytoplankton  
Phytosociology  
Plant culture  
Plant physiology  
Species  
Taxonomy

Bottle post  
USE: **Drift bottles**

Bottom boundary layer  
USE: **Benthic boundary layer**

Bottom cages  
USE: **Submerged cages**

Bottom crawlers  
USE: **Seabed vehicles**

**Bottom culture**  
UF: Seabed farming  
BT: Aquaculture techniques  
RT: Shellfish culture

**Bottom currents**  
SN: Before 1982 search DEEP  
CURRENTS  
UF: Near-bottom currents  
BT: Water currents  
NT: Abyssal currents  
Benthic currents  
RT: Bottom erosion  
Current scouring  
Deep currents  
Density flow  
Lake currents  
Ocean currents  
Scouring  
Seabed drifters  
Sediment drifts  
Shelf seas  
Subsurface currents  
Turbidity currents

**Bottom Ekman layer**  
BT: Ekman layers  
RT: Benthic boundary layer  
Benthic currents

**Bottom erosion**  
UF: Deep-sea erosion  
Submarine erosion  
Underwater erosion  
BT: Erosion  
RT: Bottom currents  
Contour currents

Current scouring  
Deep-sea furrows  
Hiatuses  
Microtopography  
Seachannels  
Wave scouring

Bottom features  
USE: **Submarine features**

**Bottom friction**  
UF: Bed friction  
BT: Friction  
RT: Bed roughness  
Bottom stress  
Form drag  
River beds  
Tidal friction  
Wave dissipation

Bottom load  
USE: **Bed load**

**Bottom mixed layer**  
BT: Mixed layer  
RT: Benthic boundary layer  
Bottom water  
Deep layer

**Bottom photographs**  
SN: Photographs of the seabed  
UF: Seabed photographs  
BT: Underwater photographs

**Bottom pressure**  
BT: Hydrostatic pressure  
RT: Hurricanes  
Wave-seabed interaction

**Bottom reverberation**  
BT: Reverberation  
RT: Bottom scattering

Bottom roughness  
USE: **Bed roughness**

Bottom sampling  
USE: **Seafloor sampling**

**Bottom scattering**  
BT: Sound scattering  
RT: Bottom reverberation

**Bottom stress**  
UF: Bed shear stress  
Bed stress  
BT: Stress (mechanics)  
RT: Bottom friction  
Drag  
Reynolds stresses

(cont'd)



## ASFA THESAURUS

### *Bottom stress (cont'd)*

Sediment dynamics  
Sediment transport  
Shear stress

### **Bottom temperature**

BT: Water temperature  
RT: Potential temperature

### **Bottom topography**

SN: The general configuration of the ocean floor  
UF: Ocean bottom topography  
Ocean floor topography  
Sea floor topography  
Underwater topography  
BT: Topography (geology)  
NT: Palaeotopography  
RT: Bathymetry  
Bottom topography effects  
Echosounding  
Isobaths  
Morphometry  
Ocean basins  
Ocean floor  
Physiographic provinces  
Sediment distribution  
Submarine features

### **Bottom topography effects**

SN: Influence of bottom topography on general ocean circulation, currents and waves  
BT: Topographic effects  
RT: Abyssal circulation  
Bottom topography  
Ocean circulation  
Water currents  
Wave refraction

### **Bottom tow**

BT: Pipeline construction  
RT: Ocean floor

### Bottom trapped waves

USE: **Trapped waves**

### **Bottom trawling**

UF: Dredging (catching methods)  
BT: Trawling  
RT: Bottom trawls  
Demersal fisheries

### **Bottom trawls**

UF: Beam trawls (bottom)  
Dragging nets  
Otter trawls (bottom)  
Pair trawls (bottom)  
BT: Trawl nets  
RT: Bottom trawling

### **Bottom water**

SN: The water in the bottom layer of the sea, lakes, reservoirs or other water bodies. For deep water masses such as Antarctic Bottom Water, use DEEP-WATER MASSES  
BT: Water  
RT: Bottom mixed layer  
Deep-water masses  
Surface water

### Bottom water masses

USE: **Deep-water masses**

### **Botulism**

SN: Bacterial food-born intoxication  
UF: Botulism hazard  
BT: Bacterial diseases  
Human diseases  
RT: Food poisoning  
Microbial contamination  
Neurotoxins

### Botulism hazard

USE: **Botulism**

### **Boudinage**

BT: Sedimentary structures  
RT: Deformation  
Melanges

### **Bouguer anomalies**

BT: Gravity anomalies  
RT: Bouguer gravity charts

### Bouguer correction

USE: **Gravity corrections**

### **Bouguer gravity charts**

BT: Gravity charts  
RT: Bouguer anomalies

### **Boulder clay**

UF: Till  
BT: Glacial deposits  
RT: Clastics  
Rudites

### **Boulders**

BT: Clastics  
Sedimentary rocks  
RT: Cobblestone  
Glacial erratics  
Rudites

### **Boundaries**

UF: Boundary line  
Territorial boundaries  
NT: Fishery boundaries  
International boundaries

### RT: Interfaces

Plate boundaries  
Surfaces

### **Boundary conditions**

RT: Mathematical models

### **Boundary currents**

BT: Water currents  
NT: Eastern boundary currents  
Western boundary currents  
RT: Ocean currents  
Wind-driven currents

### **Boundary layers**

BT: Layers  
NT: Atmospheric boundary layer  
Benthic boundary layer  
Coastal boundary layer  
Ekman layers  
Laminar boundary layer  
Oceanic boundary layer  
Turbulent boundary layer  
RT: Heat transfer  
Hydrodynamics  
Interfaces

### Boundary line

USE: **Boundaries**

### **Boundary value problems**

UF: Initial value problems  
RT: Finite element method  
Numerical analysis

### **Boussinesq approximation**

BT: Approximation

### **Bowen ratio**

BT: Ratios  
RT: Air-water exchanges  
Evaporation  
Heat budget  
Latent heat transfer  
Sensible heat transfer  
Vapour pressure

### Boxes

USE: **Containers**

### **Brackish water**

BT: Water  
RT: Brackishwater aquaculture  
Brackishwater environment  
Brackishwater pollution

### **Brackishwater aquaculture**

SN: Referring to culture of fish and other aquatic organisms in coastal lagoons, deltas, estuaries and mangrove swamps  
(*cont'd*)

## ASFA THESAURUS

### *Brackishwater aquaculture (cont'd)*

UF: Brackishwater culture  
 Estuarine aquaculture  
 BT: Aquaculture  
 RT: Algal culture  
 Bait culture  
 Brackish water  
 Brackishwater ecology  
 Brackishwater fish  
 Brackishwater molluscs  
 Cage culture  
 Estuarine organisms  
 Extensive culture  
 Fish culture  
 Seaweed culture  
 Shellfish culture  
 Valliculture

Brackishwater crab culture  
 USE: **Crab culture**

Brackishwater culture  
 USE: **Brackishwater aquaculture**

### **Brackishwater ecology**

BT: Ecology  
 RT: Aquatic communities  
 Brackishwater aquaculture  
 Brackishwater environment  
 Brackishwater fish  
 Brackishwater pollution  
 Coastal lagoons  
 Estuarine organisms  
 Mangrove swamps

### **Brackishwater environment**

UF: Estuarine environment  
 BT: Aquatic environment  
 RT: Brackish water  
 Brackishwater ecology  
 Coastal lagoons  
 Deltas  
 Estuaries  
 Eutrophic waters  
 Inland water environment  
 Lagoons  
 Mangrove swamps  
 Marine environment

### **Brackishwater fish**

UF: Estuarine fish  
 BT: Estuarine organisms  
 Fish  
 RT: Anadromous migrations  
 Brackishwater aquaculture  
 Brackishwater ecology  
 Catadromous migrations  
 Estuarine fisheries  
 Lagoon fisheries

### **Brackishwater molluscs**

UF: Estuarine molluscs

Molluscs (brackishwater)  
 Mollusks (brackishwater)  
 BT: Estuarine organisms  
 Shellfish  
 RT: Brackishwater aquaculture  
 Mollusc culture  
 Mollusc fisheries

Brackishwater organisms  
 USE: **Estuarine organisms**

### **Brackishwater pollution**

UF: Estuarine pollution  
 BT: Water pollution  
 RT: Brackish water  
 Brackishwater ecology

### **Brain**

BT: Central nervous system  
 NT: Hypothalamus  
 Pineal organ  
 RT: Ganglia  
 Head  
 Nerves  
 Skull

Branched chain saturated  
 hydrocarbons  
 USE: **Acylic hydrocarbons**

Breadth  
 USE: **Width**

### **Break-point bars**

BT: Nearshore bars  
 RT: Beach profiles  
 Breaking waves  
 Deposition features  
 Longshore bars

Breaker zone  
 USE: **Surf zone**

### **Breakers**

BT: Breaking waves  
 RT: Rollers  
 Undertow

### **Breaking waves**

BT: Surface water waves  
 NT: Breakers  
 Spilling waves  
 Surf  
 Whitecaps  
 RT: Break-point bars  
 Shoaling waves  
 Surf zone  
 Wave breaking  
 Wave crests  
 Wave dissipation  
 Waves on beaches

### **Breakwaters**

BT: Coast defences  
 NT: Riprap  
 Rubblemound breakwaters  
 RT: Barriers  
 Coastal erosion  
 Harbours  
 Overtopping  
 Sea walls  
 Wave damping  
 Wave runup

### **Breathing apparatus**

BT: Life support systems  
 RT: Breathing mixtures  
 Diving equipment  
 Safety devices  
 Scuba diving

### **Breathing mixtures**

BT: Gases  
 NT: Mixed gas  
 RT: Breathing apparatus  
 Deep-sea diving  
 Saturation diving  
 Scuba diving

### **Breccia**

BT: Clastics  
 RT: Conglomerates  
 Rudites  
 Volcanic breccia

### **Breeding**

UF: Natural breeding  
 NT: Inbreeding  
 Induced breeding  
 Selective breeding  
 RT: Aquaculture  
 Biological speciation  
 Breeding ponds  
 Breeding seasons  
 Breeding sites  
 Breeding success  
 Brood care  
 Brood stocks  
 Genetics  
 Hybridization  
 Nesting  
 Phenology  
 Photoperiodicity  
 Reproductive behaviour  
 Reproductive cycle  
 Sexual maturity  
 Sexual reproduction  
 Spawning

Breeding cycle  
 USE: **Reproductive cycle**

Breeding grounds  
 USE: **Breeding sites**

## ASFA THESAURUS

### Breeding ponds

BT: Fish ponds  
RT: Breeding

### Breeding seasons

SN: Before 1982 use SPAWNING SEASONS  
RT: Breeding  
Nesting  
Sexual isolation

### Breeding sites

UF: Breeding grounds  
RT: Breeding  
Nesting  
Nests

### Breeding stocks

USE: **Brood stocks**

### Breeding success

RT: Breeding

### Breezes

BT: Local winds  
NT: Land breezes  
Sea breezes  
RT: Beaufort scale

### Bridges

UF: Rail bridges  
Road bridges  
RT: Pontoon  
Tunnels

### Bright spot technology

BT: Seismic data processing  
RT: Seismic profiles

### Brightness temperature

USE: **Surface radiation temperature**

### Brine

USE: **Brines**

### Brine shrimp culture

UF: Artemia culture  
BT: Crustacean culture  
RT: Mass culture  
Zooplankton culture

### Brine shrimp eggs

BT: Eggs

### Brines

UF: Brine  
BT: Solutions  
NT: Hot brines  
RT: Chlorine compounds  
Dissolved salts  
Fluorine compounds

### Saline water

Sea ice

### Brittleness

BT: Mechanical properties  
RT: Embrittlement

### Bromides

BT: Bromine compounds  
RT: Halides

### Brominated hydrocarbons

BT: Halogenated hydrocarbons  
RT: Bromine

### Bromine

BT: Halogens  
RT: Brominated hydrocarbons  
Bromine compounds  
Bromine isotopes

### Bromine compounds

BT: Halogen compounds  
NT: Bromides  
RT: Bromine

### Bromine isotopes

BT: Isotopes  
RT: Bromine

### Brood care

RT: Aquaculture  
Breeding  
Brood stocks

### Brood stocks

SN: A population of specimens selected for reproduction purposes  
UF: Breeding stocks  
Parent stocks  
BT: Stocks  
RT: Breeding  
Brood care  
Fecundity  
Hybridization

### Brucite

BT: Oxide minerals

### Brunt-Vaisala frequency

UF: Buoyancy frequency  
Stability frequency  
BT: Frequency  
RT: Vertical stability

### BTU

USE: **Calorimetry**

### Bubble barriers

UF: Bubble breakwaters  
BT: Barriers

### Bubble breakwaters

USE: **Bubble barriers**

### Bubble bursting

RT: Aerosols  
Air-water exchanges  
Bubbles  
Droplets  
Electric charge  
Surface chemistry

### Bubble disease

UF: Gas bubble disease  
Gas embolism  
BT: Fish diseases  
RT: Artificial aeration  
Dissolved gases  
Exophthalmia

### Bubbles

NT: Air bubbles  
RT: Bubble bursting  
Bubbling  
Cavitation  
Debubbling

### Bubbling

RT: Aeration  
Bubbles  
Debubbling

### Bubonic disease

USE: **Boil disease**

### Bucket temperature

USE: **Surface temperature**

### Buckling

USE: **Deformation**

### Buckling (pipe)

USE: **Pipe buckling**

### Budding

BT: Asexual reproduction  
RT: Buds  
Gemmules  
Polyps  
Spores  
Vegetative reproduction

### Buds

RT: Budding  
Plant organs  
Polyps

### Buffer capacity

USE: **Buffers**

### Buffer solution

USE: **Buffers**

## ASFA THESAURUS

### Buffers

SN: Buffers occurring in natural water or used in laboratory work  
 UF: Buffer capacity  
 Buffer solution  
 RT: Acidity  
 Alkalinity  
 Chemical reactions  
 pH  
 Solutions

### Bulk carriers

UF: Ore carriers  
 BT: Merchant ships  
 RT: Cargoes

### Bulk modulus

BT: Elastic constants  
 RT: Compressibility  
 Deformation  
 Elasticity  
 Shear modulus

Buoy dynamics

USE: **Buoy motion**

Buoy hull shapes

USE: **Buoy hulls**

### Buoy hulls

UF: Buoy hull shapes  
 BT: Hulls  
 NT: Discus-shaped buoys  
 Spar buoys  
 RT: Buoys

Buoy masts

USE: **Masts**

### Buoy mooring systems

BT: Mooring systems  
 RT: Buoy motion  
 Buoy systems  
 Buoys  
 Mooring recovery

### Buoy motion

UF: Buoy dynamics  
 BT: Motion  
 RT: Buoy mooring systems  
 Buoy motion effects  
 Cable dynamics  
 Ship motion  
 Wave effects

### Buoy motion effects

SN: Effect of buoy motion on instruments and on instrument readings  
 BT: Motion effects  
 RT: Buoy motion

Buoys

Heave response  
 Heaving  
 Mooring motion effects  
 Pitch response  
 Pitching  
 Roll resonance  
 Roll response  
 Rolling  
 Surge response  
 Surging  
 Yaw response  
 Yawing

### Buoy systems

RT: Buoy mooring systems  
 Buoys  
 Floating structures

### Buoyancy

SN: Includes mechanisms in organisms for buoyancy  
 BT: Physical properties  
 RT: Ballast  
 Buoyancy floats  
 Buoyancy flux  
 Buoyancy materials  
 Buoys  
 Density  
 Flotation  
 Hydrostatic behaviour  
 Stability  
 Swim bladder  
 Water density

### Buoyancy floats

UF: Buoyancy spheres  
 Floats (buoyancy)  
 Subsurface buoyancy floats  
 RT: Ballast  
 Buoyancy  
 Buoys

### Buoyancy flux

SN: The buoyant or submerged weight of the fluid passing through a cross section in unit time  
 RT: Buoyancy  
 Buoyant jets

Buoyancy frequency

USE: **Brunt-Vaisala frequency**

### Buoyancy materials

BT: Materials  
 RT: Buoyancy

Buoyancy spheres

USE: **Buoyancy floats**

### Buoyant jets

BT: Jets  
 RT: Buoyancy flux  
 Density stratification  
 Outfalls  
 Plumes  
 Turbulent entrainment  
 Water mixing

### Buoys

SN: Use of a more specific term is recommended  
 NT: Data buoys  
 Fishing buoys  
 Marker buoys  
 Mooring buoys  
 Navigational buoys  
 Radio buoys  
 Sonobuoys  
 RT: Buoy hulls  
 Buoy mooring systems  
 Buoy motion effects  
 Buoy systems  
 Buoyancy  
 Buoyancy floats  
 Drogues  
 Masts

Burial

USE: **Burying**

### Burrowing organisms

UF: Benthic infauna  
 Endofauna  
 BT: Aquatic organisms  
 RT: Benthos  
 Bioturbation  
 Burrows  
 Protective behaviour

### Burrows

RT: Burrowing organisms  
 Trace fossils

### Burying

UF: Burial  
 RT: Pipeline construction  
 Pipeline protection  
 Trenching

Business management

USE: **Financial management**

### Butane

BT: Acyclic hydrocarbons

BWU

USE: **Blue whale unit**

## ASFA THESAURUS

### By catch

SN: The catch taken incidentally during the capture of a species of specific interest to fishermen.  
Before 1986 search also BY-CATCH  
UF: Additional catch  
By-catch  
RT: Byproducts  
Catch composition  
Catch/effort  
Fish catch statistics  
Shellfish catch statistics

By-catch

USE: **By catch**

By-products

USE: **Byproducts**

### Byproducts

UF: By-products  
BT: Products  
RT: By catch  
Fish oils  
Industrial products  
Powdered products  
Processed fishery products  
Stickwater  
Wastes

### Byssus

SN: In Mollusca Lamellibranchiata, a tuft of filaments secreted by a gland in the foot and used for attachment  
UF: Byssus threads  
BT: Animal appendages  
RT: Secretion

Byssus threads

USE: **Byssus**

Cabaling

USE: **Cabelling**

### Cabelling

SN: Mixing of two water masses with identical insitu densities but different insitu temperatures and salinities, so that the resulting mixture is denser than its components. Before 1984 search also CABELLING  
UF: Cabaling  
Cabelling  
BT: Vertical water movement  
RT: Mixing processes  
Salinity  
Water density  
Water masses

Water mixing

Water temperature

Cabelling

USE: **Cabelling**

Cable breaks

USE: **Submarine cable breaks**

### Cable depressors

BT: Depressors  
RT: Oceanographic equipment  
Towed sensors  
Towing lines

### Cable dynamics

BT: Dynamics  
RT: Buoy motion  
Cables  
Catenary  
Wire rope

### Cable laying

RT: Cable ships  
Submarine cables

### Cable ships

BT: Ships  
RT: Cable laying  
Submarine cables  
Work platforms

### Cables

NT: Electric cables  
Guide lines  
Mooring lines  
Riser cables  
Streamers  
Towing lines  
Umbilicals  
RT: Cable dynamics  
Catenary  
Chain  
Fairings  
Ropes  
Wire rope

### Cadmium

BT: Heavy metals  
RT: Cadmium compounds  
Cadmium isotopes

### Cadmium compounds

BT: Chemical compounds  
RT: Cadmium

### Cadmium isotopes

BT: Isotopes  
RT: Cadmium

Caenozoic

USE: **Cenozoic**

### Caesium

UF: Cesium  
BT: Alkali metals  
RT: Caesium isotopes

### Caesium 137

BT: Caesium isotopes

### Caesium isotopes

BT: Isotopes  
NT: Caesium 137  
RT: Caesium

Cage construction

USE: **Gear construction**

### Cage culture

SN: Culture of shellfish species and fish in fixed or floating cages  
UF: Basket culture  
Net culture  
Pen culture  
BT: Aquaculture techniques  
RT: Brackishwater aquaculture  
Cages  
Crustacean culture  
Fish culture  
Freshwater aquaculture  
Intensive culture  
Marine aquaculture  
Monoculture  
Raft culture  
Thermal aquaculture

### Cages

NT: Floating cages  
Submerged cages  
RT: Aquaculture equipment  
Cage culture

### Caissons

BT: Offshore structures  
RT: Submersible platforms  
Underwater habitats

### Calcareenite

BT: Carbonate rocks  
RT: Biocalcareenite  
Limestone

Calcareous deposits

USE: **Carbonate sediments**

### Calcareous ooze

UF: Ooze (calcareous)  
BT: Oozes  
NT: Foraminiferal ooze  
Pteropod ooze  
RT: Calcium carbonates  
Carbonate sediments  
Coccoliths  
Nannofossil ooze

## ASFA THESAURUS

Calciferol

USE: **Vitamin D**

### **Calcification**

SN: The formation of calcium salt deposits in a tissue

UF: Physiological calcification

BT: Biochemical phenomena

RT: Bones

Decalcification

Diagenesis

Fossils

Shells

Tissues

Vitamin D

### **Calcite**

BT: Carbonate minerals

RT: Calcite dissolution

Calcitization

Calcium carbonates

Limestone

Calcite compensation depth

USE: **Carbonate compensation depth**

### **Calcite dissolution**

BT: Dissolution

RT: Calcite

Carbonate compensation depth

### **Calcitization**

BT: Diagenesis

RT: Calcite

Dolomitization

### **Calcium**

BT: Alkaline earth metals

RT: Calcium compounds

Calcium isotopes

Water hardness

### **Calcium carbonates**

BT: Calcium compounds

Carbonates

RT: Aragonite

Calcareous ooze

Calcite

Dolomitization

### **Calcium compounds**

SN: Use of a specific compound is recommended

BT: Alkaline earth metal compounds

NT: Calcium carbonates

Calcium phosphates

Calcium sulphates

RT: Calcium

Coral

Water hardness

### **Calcium isotopes**

BT: Isotopes

RT: Calcium

### **Calcium phosphates**

BT: Calcium compounds

Phosphates

### **Calcium sulphates**

BT: Calcium compounds

Sulphates

### **Calcrete**

BT: Carbonate rocks

RT: Conglomerates

### **Calculators**

BT: Electronic equipment

### **Calibration**

SN: Methods for calibrating accuracy or reliability of equipment

BT: Standardization

NT: Intercalibration

RT: Accuracy

Efficiency

Equipment

Testing

### **Californium**

BT: Actinides

Transuranic elements

RT: Californium isotopes

### **Californium isotopes**

BT: Isotopes

RT: Californium

### **Calories**

SN: Before 1982 search

NUTRITIVE VALUE

UF: Calories (nutrition)

RT: Calorimetry

Food consumption

Nutritive value

Calories (nutrition)

USE: **Calories**

### **Calorimetry**

UF: BTU

Heat measurement

BT: Measurement

RT: Calories

Energy budget

Calved ice

USE: **Icebergs**

### **Calving**

SN: Formation of icebergs

RT: Ablation

Ice shelves

Icebergs

### **Cambrian**

SN: Before 1982 search also

CAMBRIAN PERIOD

BT: Palaeozoic

### **Cameras**

BT: Photographic equipment

NT: Underwater cameras

RT: Optical filters

Photography

Television systems

### **Camouflage**

BT: Adaptations

RT: Defence mechanisms

Mimicry

Protective behaviour

### **Canals**

SN: Restricted to artificial water courses through a land area; used for navigation, irrigation, etc.

UF: Irrigation canals

BT: Inland waters

NT: Interocean canals

Ship canals

RT: Channels

Inlets (waterways)

Cangronid fisheries

USE: **Shrimp fisheries**

Canned fishery products

USE: **Canned products**

### **Canned products**

SN: Fishery products preserved in cans by sterilization process

UF: Canned fishery products

BT: Processed fishery products

RT: Canning

### **Cannibalism**

BT: Feeding behaviour

### **Canning**

SN: Preservation of fishery products in cans by sterilization process

BT: Processing fishery products

RT: Canned products

### **Canoe fisheries**

BT: Fisheries

RT: Artisanal fishing

Canoes

## ASFA THESAURUS

Canoeing

USE: **Boating**

**Canoes**

BT: Boats

RT: Canoe fisheries

**Canopies**

RT: Shading

Cans

USE: **Containers**

**Cap rocks**

RT: Diapirs

Oil reservoirs

Salt domes

**Capacitance**

BT: Electrical properties

RT: Dielectric constant

Electric charge

Electric impedance

Capacitance wire wave recorders

USE: **Wave recorders**

**Capacity**

BT: Dimensions

NT: Carrying capacity

RT: Size

Volume

Capacity (storage)

USE: **Storage**

Capacity (volume)

USE: **Volume**

Cape rock lobster fisheries

USE: **Lobster fisheries**

Capelin fisheries

USE: **Gadoid fisheries**

**Capillarity**

SN: Physical capillary action  
associated with surface tension

UF: Capillary action

Capillary phenomena

RT: Air bubbles

Capillary waves

Droplets

Electrical properties

Foams

Permeability

Porosity

Surface films

Surface properties

Surface tension

Viscosity

Capillary action

USE: **Capillarity**

Capillary phenomena

USE: **Capillarity**

**Capillary waves**

UF: Surface tension waves

BT: Surface water waves

NT: Water ripples

RT: Capillarity

Gravity waves

Nonlinear waves

Surface tension

Capital investments

USE: **Investments**

Capital resources

USE: **Financial resources**

**Capsizing**

BT: Marine accidents

Ship motion

RT: Floating

Instability

Righting

Ship losses

Ship stability

Wave effects

**Captivity**

RT: Acclimation

Acclimatization

Domestication

Capture fisheries

USE: **Fisheries**

**Capture fishery economics**

SN: Economics of exploiting wild  
stocks. Before 1982 search

FISHERY ECONOMICS

BT: Fishery economics

**Carangid fisheries**

UF: Horse mackerel fisheries

Jack fisheries

Scad fisheries

Yellow tail fisheries

BT: Fisheries

RT: Marine fisheries

Percoid fisheries

**Carapace**

SN: An exoskeletal shield covering  
part or all of the dorsal  
surface of an animal

BT: Exoskeleton

RT: Cephalothorax

Chitin

**Carbohydrates**

BT: Organic compounds

NT: Glycogen

Glycosides

Saccharides

RT: Agar

Alcohols

Carbon fixation

Nutritive value

Organic constituents

**Carbon**

BT: Nonmetals

NT: Inorganic carbon

Organic carbon

RT: Carbon compounds

Carbon cycle

Carbon isotopes

Carbon/nitrogen ratio

Carbon sinks

Diamonds

Hydrocarbons

**Carbon 13**

BT: Carbon isotopes

RT: Radioactive tracers

Radiocarbon dating

Radioisotopes

**Carbon 14**

BT: Carbon isotopes

Radioisotopes

RT: Radioactive tracers

Radiocarbon dating

Carbon assimilation

USE: **Carbon fixation**

**Carbon compounds**

BT: Chemical compounds

NT: Carbon dioxide

Carbon monoxide

Carbon sulphides

Carbonates

RT: Carbon

Cyanides

Hydrocarbons

Organic compounds

**Carbon cycle**

BT: Nutrient cycles

RT: Carbon

Carbon dioxide

Transpiration

**Carbon dioxide**

BT: Atmospheric gases

Carbon compounds

RT: Carbon cycle

Carbon fixation

Greenhouse effect

(cont'd)

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### *Carbon dioxide (cont'd)*

Hypercapnia  
Photosynthesis

Carbon dioxide fixation

USE: **Carbon fixation**

Carbon dioxide poisoning

USE: **Hypercapnia**

### **Carbon fixation**

SN: Before 1982 search  
PHOTOSYNTHESIS  
UF: Carbon assimilation  
Carbon dioxide fixation  
BT: Photosynthesis  
RT: Carbohydrates  
Carbon dioxide

### **Carbon isotope ratio**

BT: Ratios  
RT: Carbon isotopes

### **Carbon isotopes**

BT: Isotopes  
NT: Carbon 13  
Carbon 14  
RT: Carbon  
Carbon isotope ratio

### **Carbon monoxide**

BT: Carbon compounds

### **Carbon/nitrogen ratio**

BT: Ratios  
RT: Carbon  
Nitrogen

### **Carbon sinks**

RT: Carbon

### **Carbon sulphides**

BT: Carbon compounds  
Sulphides

Carbonaceous deposits

USE: **Organic sediments**

Carbonate biogenic deposits

USE: **Carbonate sediments**

### **Carbonate compensation depth**

UF: Calcite compensation depth  
Compensation depth (carbonate)  
Compensation depth (oceans)  
BT: Compensation depth  
RT: Calcite dissolution  
Lysocline

### **Carbonate minerals**

BT: Minerals  
NT: Aragonite

Calcite  
Dolomite  
Magnesite  
Siderite

### **Carbonate rocks**

BT: Rocks  
NT: Beachrock  
Biocalcarenite  
Calcarenite  
Calcrete  
Chalk  
Dolostone  
Limestone  
RT: Carbonate sediments  
Coral reefs  
Sedimentary rocks

### **Carbonate sediments**

UF: Calcareous deposits  
Carbonate biogenic deposits  
BT: Sediments  
RT: Calcareous ooze  
Carbonate rocks  
Chemical sediments  
Coccoliths  
Pelagic sediments

### **Carbonates**

BT: Carbon compounds  
NT: Bicarbonates  
Calcium carbonates  
RT: Carbonic acid  
Salts  
Water hardness

### **Carbonic acid**

BT: Organic acids  
RT: Carbonates

### **Carbonic anhydrase**

BT: Enzymes

### **Carboniferous**

SN: Before 1982 search  
CARBONIFEROUS PERIOD  
BT: Palaeozoic

### **Carboxylation**

BT: Chemical reactions  
RT: Decarboxylation

### **Carboxylic acid salts**

BT: Salts  
NT: Acetate  
Citrates  
RT: Organic acids

Carboxylic acids

USE: **Organic acids**

Carcases

USE: **Carcasses**

### **Carcasses**

UF: Carcases  
Dead bodies  
RT: Stranding

### **Carcinogenesis**

SN: The production and  
development of cancer  
RT: Carcinogens  
Pollution effects  
Tumours

### **Carcinogens**

RT: Carcinogenesis  
Chemical pollutants  
Diseases  
Radioactive pollutants

### **Carcinologists**

BT: Zoologists  
RT: Carcinology  
Fishery biologists  
Taxonomists

### **Carcinology**

BT: Invertebrate zoology  
RT: Carcinologists

Carcinoma

USE: **Tumours**

### **Careers**

RT: Personnel

Cargo ships

USE: **Merchant ships**

### **Cargoes**

RT: Bulk carriers  
Merchant ships  
Shipping  
Transportation

Caridean shrimp fisheries

USE: **Shrimp fisheries**

### **Carnallite**

BT: Halide minerals

### **Carnivores**

BT: Heterotrophic organisms  
RT: Herbivores  
Omnivores  
Plankton feeders  
Predators  
Trophic levels

Carotenes

USE: **Vitamin A**



## ASFA THESAURUS

### **Carotenoids**

BT: Chromatic pigments  
RT: Photosynthesis  
Photosynthetic pigments

### **Carrageenins**

BT: Seaweed products  
RT: Agar  
Alginates

### **Carrying capacity**

SN: The maximum number of organisms that can be sustained within a given area or habitat  
BT: Capacity  
RT: Habitat

### **Cartesian coordinates**

USE: **Coordinate systems**

### **Cartilage**

SN: A form of connective tissue of vertebrates. Before 1982 search TISSUES  
BT: Connective tissues  
RT: Musculoskeletal system  
Skeleton

### **Cartographic methods**

USE: **Cartography**

### **Cartography**

UF: Cartographic methods  
Oceanographic cartography  
NT: Automated cartography  
RT: Atlases  
Bathymetric surveys  
Geographical coordinates  
Geography  
Map graphics  
Map projections  
Mapping  
Maps  
Photogrammetry  
Surveying  
Surveys

### **Cascading**

BT: Vertical water movement  
RT: Boluses  
Overflow  
Slope processes

### **Cassiterite**

BT: Oxide minerals  
RT: Placers  
Tin

### **Cast nets**

UF: Falling gear  
BT: Fishing nets

### **Castration**

BT: Organ removal  
NT: Parasitic castration  
RT: Sterility  
Testes  
Castration by parasites  
USE: **Parasitic castration**

### **Catabolism**

BT: Metabolism  
RT: Anabolism

### **Catadromous fish**

USE: **Catadromous species**

### **Catadromous migrations**

UF: Downstream migrations  
BT: Spawning migrations  
RT: Anadromous migrations  
Brackishwater fish  
Catadromous species  
Homing behaviour  
Potadromous migrations

### **Catadromous species**

SN: Having the habit to migrate from fresh to salt water to spawn  
UF: Amphihaline thalassotocous species  
Catadromous fish  
Katadromous species  
BT: Amphihaline species  
RT: Anadromous species  
Catadromous migrations

### **Catagenesis**

RT: Diagenesis  
Sediments

### **Catalogs**

USE: **Catalogues**

### **Catalogues**

UF: Catalogs  
Equipment catalogues  
BT: Documents

### **Catalogues**

NT: Book catalogues  
Inventories  
RT: Collections

### **Catalysis**

USE: **Catalysts**

### **Catalysts**

UF: Catalysis  
BT: Agents  
RT: Chemical kinetics  
Chemical reactions  
Enzymatic activity  
Enzymes  
Inhibitors

### **Catamarans**

BT: Boats  
RT: Ship hulls

### **Catastrophes**

USE: **Disasters**

### **Catastrophic waves**

BT: Water waves  
RT: Freak waves  
Storm surges  
Tsunamis

### **Catch composition**

RT: By catch  
Catch statistics  
Commercial species  
Multispecies fisheries

### **Catch limit**

USE: **Quota regulations**

### **Catch per unit effort**

USE: **Catch/effort**

### **Catch quota**

USE: **Quota regulations**

### **Catch rate**

USE: **Catch/effort**

### **Catch statistics**

BT: Fishery statistics  
NT: Fish catch statistics  
Hunting statistics  
Seaweed statistics  
Shellfish catch statistics  
Whaling statistics  
RT: Catch composition  
Catch/effort  
Fishery data  
Fishing effort  
Fishing time  
Landing statistics  
Quota regulations  
Stock assessment  
Total allowable catch

### **Catch/effort**

UF: Catch per unit effort  
Catch rate  
Hook rate  
RT: By catch  
Catch statistics  
Catchability  
Fishery data  
Fishing effort  
Fishing power  
Stock assessment

## ASFA THESAURUS

### **Catchability**

UF: Catchability coefficient  
RT: Avoidance reactions  
Catch/effort  
Catching methods  
Escapement  
Vulnerability

Catchability coefficient  
USE: **Catchability**

### **Catching methods**

UF: Fishing methods  
NT: Electric fishing  
Explosive fishing  
Fish poisoning  
Fishing by diving  
Light fishing  
Line fishing  
Net fishing  
Pot fishing  
Pump fishing  
Spear fishing  
Trap fishing  
Wounding  
RT: Attracting techniques  
Catchability  
Experimental fishing  
Fishery engineering  
Fishery technology  
Fishing  
Fishing gear  
Fishing technology

### **Catchment area**

RT: Lake basins  
River basins  
Runoff  
Watersheds

### **Catenary**

BT: Deflection  
RT: Cable dynamics  
Cables  
Mooring lines  
Riser cables

### **Cathodes**

BT: Electrodes

### **Cathodic protection**

BT: Corrosion control  
RT: Impressed currents  
Sacrificial anodes

Cathodic stripping voltammetry  
USE: **Stripping analysis**

Cation exchange  
USE: **Ion exchange**

Cation exchange capacity  
USE: **Exchange capacity**

### **Cations**

BT: Ions  
RT: Electrolysis  
Exchange capacity

Causticity  
USE: **Alkalinity**

### **Caustics**

RT: Orthogonals  
Wave refraction diagrams

Cave fauna  
USE: **Cavernicolous species**

### **Cavernicolous species**

UF: Cave fauna  
BT: Species  
RT: Caves  
Speleology

### **Caves**

SN: Restricted to marine  
subterranean environment  
UF: Sea caves  
BT: Coastal landforms  
RT: Cavernicolous species  
Cliffs  
Speleology

### **Caviar**

SN: Sturgeon eggs detached from  
roe, sorted, washed and salted,  
or fish roe prepared like caviar  
UF: Caviar substitutes  
BT: Roes

Caviar substitutes  
USE: **Caviar**

### **Cavitation**

UF: Acoustic cavitation  
BT: Turbulent flow  
RT: Acoustic properties  
Bubbles  
Corrosion  
Propellers  
Vaporization  
Vortices

Cavitation erosion  
USE: **Corrosion**

### **Cays**

UF: Keys (islands)  
BT: Islands  
RT: Coral reefs

### **Celestial navigation**

BT: Navigation  
RT: Astronomy  
Inertial navigation

Cell biology  
USE: **Cytology**

### **Cell constituents**

NT: Cell membranes  
Cell organelles  
Cell walls  
Chromosomes  
Cytoplasm  
Nuclei  
RT: Cell division  
Cell morphology  
Cells  
Cytology  
Histochemistry

### **Cell counters**

BT: Counters  
RT: Cells

### **Cell culture**

BT: Laboratory culture  
RT: Cells  
Culture media  
Phytoplankton culture  
Tissue culture

### **Cell differentiation**

UF: Differentiation (cells)  
RT: Cell morphology  
Cells  
Cytology

### **Cell division**

UF: Nuclear division  
BT: Reproduction  
NT: Meiosis  
Mitosis  
RT: Cell constituents  
Cell fusion  
Cells  
Cytology

Cell flagella

USE: **Cell organelles**

### **Cell fusion**

RT: Cell division  
Cells

### **Cell inclusions**

SN: Any non living material present  
in the cytoplasm, whether  
organic or inorganic  
RT: Cells  
Cytoplasm

## ASFA THESAURUS

### Cell membranes

UF: Cytoplasmic membranes  
 Membranes (cells)  
 Nuclear membranes  
 Plasma membranes  
 Plasmalemma  
 BT: Cell constituents  
 Membranes  
 RT: Biological membranes  
 Cell walls  
 Cytology  
 Protoplasts

### Cell morphology

BT: Organism morphology  
 RT: Cell constituents  
 Cell differentiation  
 Cytology

### Cell organelles

SN: Specialized part of a cell  
 having specific functions  
 UF: Cell flagella  
 Chondriosomes  
 Contractile vacuole  
 Myoneme  
 Organelles  
 BT: Cell constituents  
 NT: Golgi apparatus  
 Lysosomes  
 Mitochondria  
 RT: Cytology

### Cell walls

SN: Outermost rigid layer of a  
 plant cell  
 BT: Cell constituents  
 RT: Cell membranes

### Cells

NT: Amoebocytes  
 Blood cells  
 Neurons  
 Receptors  
 Sexual cells  
 RT: Anatomical structures  
 Cell constituents  
 Cell counters  
 Cell culture  
 Cell differentiation  
 Cell division  
 Cell fusion  
 Cell inclusions  
 Chloroplasts  
 Chromatophores  
 Clones  
 Cytology  
 Extracellular  
 Histochemistry  
 Necroses  
 Phagocytosis  
 Protoplasts

Tissues

Ultrastructure

### Cellular convection

UF: Thermal convection  
 BT: Convection  
 RT: Atmospheric boundary layer  
 Mantle convection  
 Windrows

Cellulase

USE: **Enzymes**

### Cellulose

SN: Before 1982 search  
 CARBOHYDRATES  
 BT: Polysaccharides

Cement (building material)

USE: **Concrete**

### Cementation

BT: Diagenesis  
 RT: Clastics  
 Consolidation  
 Lithification  
 Submarine cements

Cements (adhesives)

USE: **Adhesives**

Cements (geology)

USE: **Submarine cements**

### Cenozoic

SN: Before 1982 search  
 CENOZOIC ERA  
 UF: Caenozoic  
 BT: Geological time  
 NT: Quaternary  
 Tertiary  
 RT: Phanerozoic

### Census

RT: Biological data  
 Biological sampling  
 Data collections  
 Sampling  
 Stock assessment  
 Surveys

### Central nervous system

UF: CNS  
 BT: Nervous system  
 NT: Brain  
 Ganglia  
 Spinal cord  
 RT: Sense organs

### Centrifugal force

BT: Forces  
 RT: Acceleration

Centrifuges

Centripetal force

### Centrifugation

BT: Separation  
 RT: Analytical techniques  
 Centrifuges  
 Water filtration  
 Water purification

### Centrifuges

BT: Laboratory equipment  
 RT: Centrifugal force  
 Centrifugation  
 Centripetal force

### Centripetal force

BT: Forces  
 RT: Acceleration  
 Centrifugal force  
 Centrifuges

### Cephalopod fisheries

UF: Cuttlefish fisheries  
 Octopus fisheries  
 Squid fisheries  
 BT: Mollusc fisheries  
 RT: Marine fisheries  
 Pot fishing  
 Squid culture

### Cephalothorax

BT: Body regions  
 RT: Animal appendages  
 Carapace  
 Thorax

### Ceramics

BT: Materials

### Cerium

BT: Lanthanides  
 RT: Cerium compounds  
 Cerium isotopes

### Cerium compounds

BT: Chemical compounds  
 RT: Cerium

### Cerium isotopes

BT: Isotopes  
 RT: Cerium

### Certification

RT: Evaluation  
 Performance assessment  
 Quality control  
 Reliability  
 Tests

Cesium

USE: **Caesium**

## ASFA THESAURUS

### Cetology

BT: Mammalogy  
RT: Aquatic mammals  
Vocalization behaviour

### Chain

RT: Cables  
Mooring lines  
Ropes

### Chalk

BT: Carbonate rocks  
RT: Coccoliths

Chambers (one-atmosphere)

USE: **Underwater habitats**

### Chandler wobble

RT: Earth rotation  
Pole tides

Changes (time)

USE: **Temporal variations**

Changes of state

USE: **Phase changes**

### Channel flow

SN: Includes flow through pipes and conduits  
UF: Flow in channels  
Open channel flow  
BT: Fluid flow  
RT: Flowmeters  
Fluvial transport  
Laminar flow  
Sediment dynamics  
Sediment transport  
Turbulent flow  
Unidirectional flow

### Channels

UF: Water channels  
BT: Topographic features  
NT: Navigational channels  
Rip channels  
Seachannels  
RT: Canals  
Dredgers  
Flumes  
Fluvial features  
Inlets (waterways)  
Rivers  
Runnels  
Straits  
Tidal inlets  
Valleys  
Water bodies  
Water currents

Channels (sound)

USE: **Sound channels**

### Chaos

#### Chart datum

BT: Datum levels  
RT: Maps

Charting (distributions)

USE: **Mapping**

Charting (environmental conditions)

USE: **Mapping**

Charting (navigational hazards)

USE: **Hydrographic surveying**

Charts (maps)

USE: **Maps**

#### Check lists

SN: Any relatively extensive list of a group of organisms by species  
UF: Species composition  
RT: Identification keys

#### Chelates

UF: Chelating agents  
Chelation  
RT: Chemical compounds  
Haemoglobins  
Metals  
Organic compounds

Chelating agents

USE: **Chelates**

Chelation

USE: **Chelates**

Chelatometric titration

USE: **Titration**

Chemical activity

USE: **Thermodynamic activity**

#### Chemical analysis

UF: Chemical assays  
BT: Analysis  
RT: Chemical composition  
Hydrocarbon analysis  
Microscopy  
Pollution detection  
Sediment analysis  
Water analysis  
Water samples  
X-ray spectroscopy

Chemical assays

USE: **Chemical analysis**

### Chemical composition

UF: Abundance (chemical)  
Chemical constituents  
BT: Composition  
NT: Feed composition  
Food composition  
RT: Chemical analysis  
Chemical elements  
Chemical properties  
Chemotaxonomy

### Chemical compounds

SN: Use of a more specific term is recommended; consult NTs listed below  
NT: Actinide compounds  
Alkali metal compounds  
Alkaline earth metal compounds  
Aluminium compounds  
Arsenic compounds  
Bismuth compounds  
Boron compounds  
Cadmium compounds  
Carbon compounds  
Cerium compounds  
Chromium compounds  
Cobalt compounds  
Copper compounds  
Cyanides  
Germanium compounds  
Gold compounds  
Halogen compounds  
Hydrogen compounds  
Inorganic compounds  
Iron compounds  
Lead compounds  
Manganese compounds  
Mercury compounds  
Molybdenum compounds  
Nickel compounds  
Nitrogen compounds  
Organic compounds  
Oxygen compounds  
Phosphorus compounds  
Selenium compounds  
Silicon compounds  
Silver compounds  
Sulphur compounds  
Technetium compounds  
Tin compounds  
Titanium compounds  
Tungsten compounds  
Uranium compounds  
Vanadium compounds  
Volatile compounds  
Zinc compounds  
Zirconium compounds  
RT: Antioxidants  
Aromatics  
Chelates  
Disinfectants

(cont'd)

## ASFA THESAURUS

### *Chemical compounds (cont'd)*

Dissolved chemicals  
Fixatives  
Inorganic acids  
Polymers  
Salts  
Volatile compounds

Chemical constituents

USE: **Chemical composition**

### **Chemical control**

SN: Use of chemicals to control  
noxious organisms  
UF: Chemocontrol  
BT: Control  
RT: Antifouling substances  
Pest control  
Plant control

### **Chemical cycles**

BT: Cycles  
NT: Biochemical cycles  
Geochemical cycle

### **Chemical defence**

RT: Protective behaviour

### **Chemical degradation**

BT: Degradation  
RT: Biochemical cycles  
Biogeochemical cycle  
Chemical reactions  
Corrosion  
Electrolysis  
Hydrolysis  
Sewage treatment  
Sludge treatment  
Water pollution treatment

### **Chemical elements**

SN: Use of a more specific term is  
recommended  
UF: Elements  
Elements (chemical)  
NT: Metals  
Nonmetals  
Rare gases  
RT: Alloys  
Chemical composition  
Dissolved chemicals  
Electroanalysis  
Isotopes  
Trace elements

### **Chemical engineering**

BT: Engineering  
RT: Petroleum engineering

### **Chemical equilibrium**

UF: Equilibrium constants  
BT: Equilibrium

RT: Chemical kinetics  
Chemical reactions  
Thermodynamic activity  
Thermodynamic equilibrium

### **Chemical extraction**

SN: Extraction of fats, enzymes,  
seaweed products, oils, protein,  
concentrates, stickwater, etc.  
UF: Extraction (chemical)  
BT: Separation  
RT: Animal oil extraction

### **Chemical fertilizers**

SN: Chemical substances used to  
fertilize soils or aquatic  
environment  
BT: Fertilizers  
RT: Chemical pollutants  
Nitrogen compounds  
Phosphorus compounds

### **Chemical kinetics**

UF: Kinetics of chemical reactions  
Reaction kinetics  
BT: Kinetics  
RT: Catalysts  
Chemical equilibrium  
Chemical reactions

### **Chemical limnology**

SN: Before 1982 search also  
LIMNOLOGY (CHEMICAL)  
UF: Limnology (chemical)  
BT: Limnology  
RT: Chemical properties  
Estuarine chemistry  
Water analysis

Chemical messengers

USE: **Hormones**

### **Chemical oceanography**

UF: Marine chemistry  
BT: Oceanography  
RT: Chemical properties  
Chemistry  
Estuarine chemistry  
Water analysis

### **Chemical oxygen demand**

BT: Oxygen demand  
RT: Biochemical oxygen demand  
Chemical properties  
Water analysis  
Water quality

### **Chemical plumes**

BT: Plumes  
RT: Chemical pollution  
Chemical spills

### **Chemical pollutants**

SN: Any pollutants of chemical  
origin (organic and inorganic)  
BT: Hazardous materials  
Pollutants  
RT: Carcinogens  
Chemical fertilizers  
Chemical pollution  
DDT  
Detergents  
Industrial wastes  
Paints  
PCB  
Pesticides  
Phenols  
Phthalate esters

### **Chemical pollution**

BT: Pollution  
RT: Agricultural pollution  
Chemical plumes  
Chemical pollutants  
Sediment pollution  
Water pollution

### **Chemical precipitation**

SN: Before 1982 search  
PRECIPITATION  
(CHEMISTRY)  
UF: Precipitation (chemistry)  
BT: Separation  
NT: Coprecipitation  
Flocculation  
RT: Chemical properties  
Chemical reactions  
Coagulants  
Colloids  
Sedimentation  
Solubility  
Supersaturation

### **Chemical properties**

BT: Properties  
NT: Acidity  
Alkalinity  
pH  
Redox potential  
Salinity  
Solubility  
RT: Chemical composition  
Chemical limnology  
Chemical oceanography  
Chemical oxygen demand  
Chemical precipitation  
Chemical reactions  
Chemistry  
Electrical properties  
Electrochemistry  
Luminescence  
Molecular weight

(cont'd)

## ASFA THESAURUS

### *Chemical properties (cont'd)*

Physical properties  
Physicochemical properties  
Sediment chemistry  
Thermodynamic properties  
Water properties

### **Chemical reactions**

SN: Use of a more specific term is recommended  
UF: Reactions (chemical)  
NT: Amination  
Autolysis  
Carboxylation  
Coagulation  
Corrosion  
Deamination  
Decarboxylation  
Degradation  
Dehydration  
Denitrification  
Depolymerization  
Dissociation  
Electrolysis  
Fermentation  
Halogenation  
Hydrolysis  
Isomerization  
Nitrification  
Nitrogen fixation  
Oxidation  
Photochemical reactions  
Polymerization  
Redox reactions  
Reduction  
RT: Biochemical phenomena  
Buffers  
Catalysts  
Chemical degradation  
Chemical equilibrium  
Chemical kinetics  
Chemical precipitation  
Chemical properties  
Chemiluminescence  
Chemistry  
Electrochemistry  
Ion association  
Ion exchange  
Photosynthesis  
Redox potential  
Specificity  
Thermodynamic activity  
Titration

Chemical receptors  
USE: **Chemoreceptors**

Chemical resistance  
USE: **Control resistance**

### **Chemical sediments**

SN: Search also AUTHIGENES before 1983  
UF: Chemically precipitated sediments  
Hydrogenous sediments  
BT: Sediments  
NT: Concretions  
Ferruginous deposits  
Hydrothermal deposits  
Manganese deposits  
Metalliferous sediments  
Nodules  
Phosphate deposits  
Submarine cements  
Sulphide deposits  
RT: Anhydrite  
Authigenic minerals  
Carbonate sediments  
Cherts  
Evaporites  
Mineral deposits  
Organic sediments  
Pelagic sediments  
Siliceous sediments

### **Chemical speciation**

UF: Speciation (chemical)  
RT: Chemistry

### **Chemical spills**

BT: Accidents  
RT: Chemical plumes

### **Chemical stimuli**

UF: Olfactory stimuli  
BT: Stimuli  
RT: Chemoreception  
Chemoreceptors  
Chemotaxis  
Chemotropism  
Olfactory organs

Chemical waste disposal  
USE: **Waste disposal**

Chemically precipitated sediments  
USE: **Chemical sediments**

Chemicals (fire fighting)  
USE: **Fire extinguishers**

### **Chemiluminescence**

BT: Luminescence  
RT: Bioluminescence  
Chemical reactions  
Phosphorescence

Chemisorption  
USE: **Sorption**

### **Chemistry**

SN: Use of a more specific term is recommended  
NT: Atmospheric chemistry  
Biochemistry  
Electrochemistry  
Geochemistry  
Photochemistry  
Radiochemistry  
Surface chemistry  
RT: Chemical oceanography  
Chemical properties  
Chemical reactions  
Chemical speciation

Chemocontrol

USE: **Chemical control**

### **Chemoreception**

SN: Any sensory perception of ions or chemical compounds  
RT: Alarm substances  
Chemical stimuli  
Chemoreceptors  
Chemotropism  
Olfaction  
Sense functions

### **Chemoreceptors**

UF: Chemical receptors  
BT: Sense organs  
RT: Chemical stimuli  
Chemoreception  
Olfactory organs  
Taste organs

### **Chemosynthesis**

RT: Biosynthesis  
Nutrients (mineral)  
Photosynthesis

### **Chemotaxis**

BT: Taxis  
RT: Chemical stimuli  
Chemotropism  
Olfactory organs

### **Chemotaxonomy**

SN: The classification of organisms on the basis of the distribution and composition of their chemical substances  
UF: Molecular taxonomy  
BT: Taxonomy  
RT: Chemical composition  
DNA

### **Chemotropism**

BT: Tropism  
RT: Chemical stimuli  
Chemoreception  
Chemotaxis

## ASFA THESAURUS

### **Chenier plains**

BT: Coastal landforms  
RT: Cheniers

### **Cheniers**

BT: Beach ridges  
RT: Chenier plains  
Wetlands

### **Chertification**

RT: Cherts  
Diagenesis  
Metasomatism  
Silicification

### **Cherts**

BT: Siliceous rocks  
RT: Chemical sediments  
Chertification  
Concretions  
Nodules  
Silica

Chi square test

USE: **Statistical analysis**

Chilled fishery products

USE: **Chilled products**

### **Chilled products**

UF: Chilled fishery products  
BT: Processed fishery products  
RT: Chilling storage  
Frozen products  
Refrigeration

### **Chilling storage**

BT: Cold storage  
RT: Chilled products  
Refrigeration

Chimaeras fisheries

USE: **Shark fisheries**

### **Chitin**

BT: Mucopolysaccharides  
RT: Carapace  
Chitosan  
Cuticles  
Exoskeleton  
Glucosamine

### **Chitosan**

RT: Chitin

### **Chloric acid**

BT: Inorganic acids  
RT: Chlorine compounds  
Fluorine compounds

### **Chlorides**

BT: Chlorine compounds  
NT: Ammonium chloride  
Sodium chloride  
RT: Halides

### **Chlorinated hydrocarbons**

BT: Halogenated hydrocarbons  
NT: Aldrin  
Chloroform  
DDE  
DDT  
Dieldrin  
Lindane  
Trichloroethylene  
RT: Pesticides

### **Chlorination**

SN: Sterilization of water with  
chlorine or chlorine compounds  
UF: Chlorinators  
BT: Halogenation  
RT: Chlorine  
Dechlorination  
Disinfection  
Sewage treatment  
Water purification

Chlorinators

USE: **Chlorination**

### **Chlorine**

BT: Halogens  
RT: Chlorination  
Chlorine compounds  
Chlorine isotopes  
Dechlorination  
Disinfectants

### **Chlorine compounds**

BT: Halogen compounds  
NT: Chlorides  
RT: Brines  
Chloric acid  
Chlorine  
Chlorinity  
Dissolved salts  
Fluorine compounds  
Organic compounds

### **Chlorine isotopes**

BT: Isotopes  
RT: Chlorine

### **Chlorinity**

SN: Measured chemical value of the  
amount of chloride in sea water  
BT: Salinity  
RT: Chlorine compounds  
Chlorosity  
Fluorine compounds  
Water density

### **Chlorite**

BT: Clay minerals  
RT: Slates

### **Chloroform**

BT: Chlorinated hydrocarbons  
RT: Methane

### **Chlorophylls**

BT: Photosynthetic pigments  
RT: Chloroplasts  
Porphyrins

### **Chloroplasts**

RT: Cells  
Chlorophylls  
Chromatophores  
Photosynthetic pigments

### **Chlorosity**

SN: Chlorinity in grams/litre  
BT: Salinity  
RT: Chlorinity  
Water density

### **Cholesterol**

BT: Sterols  
RT: Blood cells

### **Choline**

BT: Alcohols  
RT: Lipids

### **Cholinesterase inhibitors**

UF: Anticholinesterases  
BT: Enzyme inhibitors  
RT: Muscles

Cholocalciferol

USE: **Vitamin D**

Chondriosomes

USE: **Cell organelles**

Chordate zoology

USE: **Vertebrate zoology**

Chorology

USE: **Biogeography**

Christmas trees

USE: **Wellheads**

### **Chromatic adaptations**

BT: Adaptations  
RT: Chromatic behaviour  
Chromatic pigments  
Colour

## ASFA THESAURUS

### Chromatic behaviour

BT: Behaviour  
RT: Chromatic adaptations  
Chromatic pigments  
Chromatophores  
Light effects  
Protective behaviour

### Chromatic pigments

BT: Pigments  
NT: Carotenoids  
RT: Albinism  
Chromatic adaptations  
Chromatic behaviour  
Chromatophores  
Colour  
Discolouration

### Chromatographic analysis

USE: **Chromatographic techniques**

### Chromatographic techniques

UF: Chromatographic analysis  
Chromatography  
BT: Analytical techniques  
NT: Gas chromatography  
RT: Adsorption  
Colorimetric techniques  
HPLC  
Light absorption  
Spectroscopic techniques

### Chromatography

USE: **Chromatographic techniques**

### Chromatophores

UF: Erythrophores  
Melanophores  
Xanthophores  
RT: Cells  
Chloroplasts  
Chromatic behaviour  
Chromatic pigments

### Chromite

BT: Oxide minerals  
RT: Chromium  
Placers

### Chromium

BT: Heavy metals  
Transition elements  
RT: Chromite  
Chromium compounds  
Chromium isotopes  
Heavy minerals

### Chromium compounds

BT: Chemical compounds  
RT: Chromium

### Chromium isotopes

BT: Isotopes  
RT: Chromium

### Chromosome mutations

USE: **Mutations**

### Chromosome numbers

USE: **Chromosomes**

### Chromosomes

UF: Chromosome numbers  
Karyomites  
BT: Cell constituents  
NT: Genes  
RT: Genomes  
Histones  
Karyology  
Karyotypes  
Meiosis  
Mitosis  
Mutations  
Polyploids  
Sex determination

### Chronometers

UF: Clocks  
Time measuring equipment  
Timing devices  
BT: Measuring devices  
RT: Geochronometry

### Chronostratigraphy

BT: Stratigraphy

### Ciguatera

BT: Human diseases  
RT: Ciguatoxin  
Poisonous fish

### Ciguatoxin

BT: Biological poisons  
RT: Ciguatera  
Poisonous fish

### Cilia

BT: Animal appendages  
RT: Flagella  
Locomotion

### Circadian rhythms

SN: Pertaining to 24-hour biological cycle  
UF: Diurnal rhythms  
BT: Biological rhythms  
RT: Diurnal variations  
Moon phases  
Photoperiods  
Phototropism

### Circulation

SN: Use of a more specific term is

recommended

NT: Atmospheric circulation  
Blood circulation  
Water circulation  
RT: Advection

### Circulatory system

UF: Vascular system  
BT: Anatomical structures  
NT: Blood vessels  
Heart  
RT: Blood  
Blood circulation  
Blood pressure

### Citrates

BT: Carboxylic acid salts

### Civil engineering

BT: Engineering  
RT: Coastal engineering

### Cladistics

BT: Classification  
RT: Taxonomy

### Clam culture

SN: Before 1982 search MOLLUSC CULTURE  
BT: Mollusc culture  
RT: Clam fisheries  
Spat

### Clam fisheries

UF: Arkshell fisheries  
Cockle fisheries  
Quahog fisheries  
BT: Mollusc fisheries  
RT: Clam culture

### Clapotis

USE: **Standing waves**

### Classification

NT: Cladistics  
Optical classification  
Taxonomy  
RT: Classification systems

### Classification (biological)

USE: **Taxonomy**

### Classification systems

SN: Systems for classification of inanimate objects or ecological or biological attributes of organisms  
RT: Classification

### Clastic deposits

USE: **Clastics**



## ASFA THESAURUS

Clastic rocks

USE: **Clastics**

Clastic sediments

USE: **Clastics**

### **Clastics**

SN: Before 1982 search CLASTIC

SEDIMENTS

UF: Clastic deposits

Clastic rocks

Clastic sediments

BT: Sediments

NT: Arenites

Bentonite

Boulders

Breccia

Clays

Cobblestone

Contourites

Flysch

Gravel

Marlstone

Mud

Mudstone

Pebbles

Sand

Sandstone

Shale

Shingle

Silt

Siltstone

Turbidites

RT: Alluvial deposits

Boulder clay

Cementation

Detrital deposits

Eolian deposits

Glacial deposits

Radiolarite

Tephra

Terrigenous sediments

### **Clay minerals**

BT: Silicate minerals

NT: Chlorite

Illite

Kaolin

Kaolinite

Montmorillonite

Nontronite

Palygorskite

Saponite

Smectite

Vermiculite

RT: Bauxite

Clays

Clay soils

USE: **Clays**

### **Clays**

UF: Clay soils

BT: Clastics

NT: Colloidal clay

Pelagic clay

RT: Argillaceous deposits

Clay minerals

Kaolin

Marl

Mud

Sediment load

### **Cleaning**

NT: Tank cleaning

RT: Pigging

### **Cleaning behaviour**

BT: Behaviour

RT: Symbiosis

Clear air turbulence

USE: **Atmospheric turbulence**

### **Cliffs**

BT: Coastal landforms

RT: Caves

Fault scarps

Wave-cut platforms

### **Climate**

NT: Hydroclimate

Palaeoclimate

Weather

RT: Climate prediction

Climatic changes

Climatic data

Climatic zones

Climatology

Ocean-atmosphere system

Phenology

Rainfall

Seasons

Solar radiation

Wave climate

Winds

### **Climate prediction**

BT: Prediction

RT: Climate

Weather forecasting

### **Climatic changes**

RT: Air pollution

Atmospheric chemistry

Climate

Climatology

Deglaciation

Earth rotation

Eustatic changes

Glaciation

Greenhouse effect

Long-term changes

Mass extinctions

Palaeoclimate

Palaeotemperature

Sea level changes

Solar constant

Solar-terrestrial activity

### **Climatic data**

UF: Climatological data

BT: Meteorological data

RT: Climate

Climatological charts

Climatology

Climatic maps

USE: **Climatological charts**

### **Climatic zones**

SN: Mainly related to hydroclimate

NT: Polar zones

Subtropical zones

Temperate zones

RT: Arid environments

Climate

Climatology

Seasons

### **Climatological charts**

UF: Climatic maps

BT: Maps

RT: Climatic data

Oceanographic atlases

Wave climate

Wind roses

Climatological data

USE: **Climatic data**

Climatologists

USE: **Meteorologists**

### **Climatology**

BT: Atmospheric sciences

NT: Bioclimatology

Palaeoclimatology

RT: Climate

Climatic changes

Climatic data

Climatic zones

Geography

Phenology

Seasons

Winds

### **Climax community**

SN: A stable community by climax

formation as consequence of a

successional series of

ecological changes

RT: Aquatic communities

Community composition

(cont'd)

## ASFA THESAURUS

### *Climax community (cont'd)*

Dominant species  
Ecological associations  
Ecological succession  
Species diversity

### **Clines**

NT: Ecoclines  
Geoclines  
RT: Halocline  
Lysocline  
Thermocline

### **Clinoptilonite**

BT: Zeolites

### **Cloaca**

RT: Intestines  
Urinary system

### **Clocks**

USE: **Chronometers**

### **Clones**

SN: Groups of organisms  
genetically identical  
RT: Asexual reproduction  
Cells  
Cloning  
Genetics  
Parthenogenesis

### **Cloning**

RT: Asexual reproduction  
Clones

### **Closed recirculating systems**

USE: **Recirculating systems**

### **Closed seasons**

USE: **Season regulations**

### **Closure approximation**

BT: Approximation

### **Cloud cover**

UF: Cloudiness  
RT: Clouds  
Insolation  
Solar radiation  
Terrestrial radiation  
Weather

### **Cloud height**

BT: Height  
RT: Clouds

### **Cloud physics**

BT: Atmospheric physics  
RT: Clouds

### **Cloudiness**

USE: **Cloud cover**

### **Clouds**

UF: Cumulus  
BT: Hydrometeors  
NT: Fog  
RT: Atmospheric precipitations  
Cloud cover  
Cloud height  
Cloud physics  
Weather

### **Clupeoid fisheries**

UF: Anchovy fisheries  
Herring fisheries  
Pilchard fisheries  
Sardine fisheries  
Sardinella fisheries  
Sprat fisheries  
BT: Finfish fisheries  
RT: Bait fisheries  
Coastal fisheries

### **Clutch**

UF: Clutch size  
RT: Bird eggs  
Hatching  
Nesting  
Nests

### **Clutch size**

USE: **Clutch**

### **Cnoidal waves**

BT: Shallow water waves  
RT: Surface gravity waves

### **CNS**

USE: **Central nervous system**

### **Coagulants**

UF: Coagulators  
BT: Agents  
RT: Anticoagulants  
Chemical precipitation  
Coagulation  
Drugs

### **Coagulation**

BT: Chemical reactions  
RT: Biochemical oxygen demand  
Coagulants  
Flotation  
Water treatment

### **Coagulators**

USE: **Coagulants**

### **Coal**

BT: Fossil fuels

### **Coamplitude lines**

USE: **Isopleths**

### **Coarse fish**

SN: Freshwater fish not belonging  
to the family Salmonidae  
BT: Freshwater fish

### **Coast accretion**

USE: **Progradation**

### **Coast defences**

SN: Before 1982 search also  
**COASTAL STRUCTURES**  
BT: Coastal structures  
NT: Breakwaters  
Groynes  
Sea walls  
Storm surge barriers  
RT: Beach erosion  
Coastal engineering  
Coastal zone  
Coastal zone management  
Shore protection

### **Coast effect**

RT: Electrical exploration  
Gravity exploration  
Magnetic exploration  
Magnetotelluric methods  
Telluric currents

### **Coast protection**

USE: **Shore protection**

### **Coastal aquaculture**

USE: **Marine aquaculture**

### **Coastal boundary layer**

BT: Boundary layers  
RT: Coastal jets  
Lake dynamics  
Nearshore dynamics

### **Coastal circulation**

USE: **Shelf dynamics**

### **Coastal countercurrents**

BT: Countercurrents  
RT: Coastal currents  
Coastal upwelling  
Shelf dynamics  
Undercurrents

### **Coastal countries**

USE: **Coastal states**

## ASFA THESAURUS

### Coastal currents

BT: Water currents  
RT: Coastal countercurrents  
Coastal oceanography  
Nearshore currents  
Upwelling  
Wind-driven currents

Coastal currents (littoral)  
USE: **Nearshore currents**

Coastal dunes  
USE: **Dunes**

### Coastal engineering

BT: Engineering  
RT: Civil engineering  
Coast defences  
Coastal structures  
Coastal zone management  
Geotechnology  
Marine technology  
River engineering  
Shore protection  
Structural engineering

Coastal environment  
USE: **Coastal zone**

### Coastal erosion

UF: Shoreline erosion  
BT: Erosion  
NT: Beach erosion  
RT: Breakwaters  
Coastal landforms  
Coastal zone  
Coasts  
Deltas  
Land reclamation  
Retrogradation  
Sediment transport  
Shore protection

Coastal erosion features  
USE: **Erosion features**

### Coastal fisheries

BT: Fisheries  
RT: Artisanal fishing  
Clupeoid fisheries  
Crustacean fisheries  
Echinoderm fisheries  
Estuarine fisheries  
Fishing barriers  
Lake fisheries  
Marine fisheries  
Percoid fisheries  
Scallop fisheries

### Coastal geodesy

BT: Geodesy  
RT: Marine geodesy

### Coastal inlets

UF: Voes  
BT: Coastal landforms  
Coastal waters  
NT: Bays  
Drowned valleys  
Estuaries  
Fjords  
Inlets (waterways)  
Tidal inlets  
RT: Coastal lagoons  
Coastal oceanography  
Coastal zone  
Coasts

### Coastal jets

BT: Jets  
RT: Coastal boundary layer  
Lake currents  
Lake dynamics  
Longshore currents  
Nearshore dynamics  
Shelf dynamics

### Coastal lagoons

UF: Haff  
BT: Lagoons  
RT: Barrier islands  
Barrier spits  
Brackishwater ecology  
Brackishwater environment  
Coastal inlets  
Coastal waters  
Sabkhas

### Coastal landforms

UF: Coastal topographic features  
Shoreline features  
BT: Landforms  
NT: Barrier islands  
Beaches  
Caves  
Chenier plains  
Cliffs  
Coastal inlets  
Deltas  
Headlands  
Palaeoshorelines  
Rocky shores  
Stacks  
Tidal flats  
RT: Coastal erosion  
Coastal morphology  
Drowned valleys

### Coastal morphology

UF: Morphology (coastal)  
BT: Geomorphology  
NT: Beach morphology  
RT: Coastal landforms  
Lake shores

Progradation  
Retrogradation

Coastal nations  
USE: **Coastal states**

### Coastal oceanography

UF: Nearshore oceanography  
BT: Oceanography  
RT: Coastal currents  
Coastal inlets  
Coastal waters  
Estuarine dynamics  
Nearshore currents  
Nearshore dynamics  
Shelf dynamics

Coastal reclamation  
USE: **Land reclamation**

### Coastal states

UF: Coastal countries  
Coastal nations  
Littoral states  
Sea states (countries)  
BT: Countries  
RT: Coastal zone  
Exclusive economic zone  
Extended jurisdiction  
Landlocked states  
Territorial waters

### Coastal structures

BT: Hydraulic structures  
NT: Coast defences  
Piers  
Port installations  
RT: Barrages  
Coastal engineering  
Coastal zone management  
Design wave  
Harbours  
Shore protection

Coastal topographic features  
USE: **Coastal landforms**

Coastal trapped waves  
USE: **Trapped waves**

### Coastal upwelling

BT: Upwelling  
RT: Coastal countercurrents  
Eastern boundary currents  
El Nino phenomena  
Shelf dynamics  
Trade winds

## ASFA THESAURUS

### Coastal waters

BT: Water bodies  
 NT: Coastal inlets  
   Straits  
 RT: Coastal lagoons  
   Coastal oceanography  
   Coastal zone  
   Coasts  
   Littoral zone  
   Marginal seas  
   Nearshore dynamics  
   Shelf dynamics

### Coastal zone

SN: The band of dry land and adjacent ocean space in which land ecology and use directly affect ocean space ecology and use, and vice versa  
 UF: Coastal environment  
   Nearshore environment  
 RT: Beaches  
   Coast defences  
   Coastal erosion  
   Coastal inlets  
   Coastal states  
   Coastal waters  
   Coastal zone management  
   Coasts  
   Littoral zone  
   Marine environment  
   Riparian zone  
   Tidal flats

### Coastal zone management

BT: Ecosystem management  
 NT: Shore protection  
 RT: Coast defences  
   Coastal engineering  
   Coastal structures  
   Coastal zone  
   Dune stabilization  
   Lake reclamation  
   Land reclamation

### Coastguards

RT: Surveillance and enforcement

### Coastlines

USE: **Coasts**

### Coasts

UF: Coastlines  
   Sea coast  
   Seacoast  
   Shorelines  
 BT: Landforms  
 NT: Emergent shorelines  
   Relict shorelines  
   Strandlines  
   Submerged shorelines  
 RT: Beaches

### Coastal erosion

Coastal inlets  
 Coastal waters  
 Coastal zone  
 Deltas  
 Dunes  
 Progradation  
 Regressions  
 Retrogradation  
 Rip currents  
 Riparian environments  
 Rocky shores  
 Transgressions

### Coating materials

UF: Coatings  
   Protective coatings  
 BT: Materials  
 NT: Paints  
   Plastic coatings  
   Primers  
 RT: Antifouling substances  
   Coating processes  
   Fouling control

### Coating processes

RT: Coating materials  
   Corrosion control  
   Fouling control

### Coatings

USE: **Coating materials**

### Coaxial cables

BT: Electric cables  
 RT: Submarine cables

### Cobalt

BT: Heavy metals  
   Transition elements  
 RT: Cobalt compounds  
   Cobalt isotopes  
   Ferromanganese nodules

### Cobalt compounds

BT: Chemical compounds  
 RT: Cobalt

### Cobalt isotopes

BT: Isotopes  
 RT: Cobalt

### Cobbles

USE: **Cobblestone**

### Cobblestone

UF: Cobbles  
 BT: Clastics  
   Sedimentary rocks  
 RT: Boulders  
   Rudites

### Coccoliths

SN: Minute calcareous plates of algal, protozoan or protist origin  
 RT: Calcareous ooze  
   Carbonate sediments  
   Chalk  
   Nannofossil ooze

### Cockle fisheries

USE: **Clam fisheries**

### Cod fisheries

USE: **Gadoid fisheries**

### Codends

Codes of practice  
 USE: **Standards**

### Codex alimentarius

USE: **Codex standards**

### Codex standards

SN: International standards for fish and fishery products  
 UF: Codex alimentarius  
 BT: Standards  
 RT: Fish inspection regulations  
   Processing fishery products

### Coefficient of eddy viscosity

USE: **Eddy viscosity coefficient**

### Coefficients

NT: Exchange coefficients  
 RT: Constants  
   Kurtosis  
   Ratios  
   Skewness

### Coelom

BT: Body cavities  
 RT: Amoebocytes  
   Coelomic fluids

### Coelomic fluids

BT: Body fluids  
 RT: Coelom

### Coenobia

USE: **Colonies**

### Coenzymes

UF: Glutathione  
 BT: Enzymes  
 NT: Cytochromes  
 RT: Vitamins

### Coherent Light Detection and Ranging

USE: **Lidar**

## ASFA THESAURUS

### **Cohesionless sediments**

UF: Non-cohesive sediments  
 BT: Sediments  
 RT: Cohesive sediments  
   Fluidized sediment flow  
   Grain flow  
   Gravel  
   Silt  
   Turbidity currents

### **Cohesive sediments**

BT: Sediments  
 RT: Cohesionless sediments  
   Mud  
   Shear strength  
   Soil mechanics  
   Vane shear testing

### **Cohorts**

RT: Ecological associations

### **Cold blooded animals**

USE: **Poikilothermy**

### **Cold branding**

SN: Marking fish with liquid nitrogen  
 UF: Freeze branding  
   Kryogenic marking  
 BT: Marking

### **Cold fronts**

USE: **Atmospheric fronts**

### **Cold resistance**

UF: Frost resistance  
 BT: Biological resistance  
 RT: Cold shock  
   Cryobiology  
   Temperature tolerance

### **Cold season**

BT: Seasons  
 RT: Air temperature  
   Water temperature  
   Winter

### **Cold shock**

BT: Temperature effects  
 RT: Cold resistance  
   Heat shock

### **Cold storage**

UF: Refrigeration storage  
 BT: Storage  
 NT: Chilling storage  
   Freezing storage  
 RT: Fish storage  
   Refrigeration  
   Refrigerators

### **Cold tolerance**

USE: **Temperature tolerance**

### **Cold water diseases**

USE: **Peduncle disease**

### **Cold water masses**

BT: Water masses  
 RT: Temperature sections  
   Thermal stratification  
   Water temperature

### **Collagen**

BT: Proteins  
 RT: Connective tissues

### **Collapse strength**

BT: Strength  
 RT: Deformation  
   Yield point

### **Collected papers**

UF: Festschriften  
   Honour volumes  
 BT: Documents

### **Collecting devices**

SN: Devices for collection of aquatic organisms  
 NT: Bacteria collecting devices  
   Benthos collecting devices  
   Nekton collecting devices  
   Plankton collecting devices  
 RT: Biological sampling  
   Limnological equipment  
   Oceanographic equipment  
   Samplers  
   Sediment traps

### **Collections**

SN: Use of a more specific term is recommended  
 NT: Biological collections  
   Data collections  
   Geological collections  
   Mineral collections  
   Museum collections  
   Sediment collections  
 RT: Catalogues

### **Collision avoidance**

RT: Collisions  
   Navigation regulations  
   Radar navigation  
   Traffic management

### **Collisions**

UF: Impacts  
 BT: Accidents  
 RT: Collision avoidance  
   Ship losses  
   Sinking

### **Colloidal clay**

BT: Clays  
   Suspended inorganic matter  
 RT: Colloids

### **Colloids**

UF: Dispersions (chemical)  
 NT: Aerosols  
   Gels  
 RT: Agar  
   Body fluids  
   Chemical precipitation  
   Colloidal clay  
   Dialysis  
   Electrophoresis  
   Emulsions  
   Enzymes  
   Flocculation  
   Foams  
   Suspended particulate matter  
   Turbidity

### **Colloquia**

USE: **Conferences**

### **Colonies**

UF: Coenobia  
 RT: Colonization  
   Ecological associations  
   Gemmules  
   Introduced species

### **Colonisation**

USE: **Colonization**

### **Colonization**

UF: Colonisation  
 RT: Biological settlement  
   Colonies  
   Ecosystem resilience  
   Habitat selection  
   Introduced species  
   Seeding (aquaculture)  
   Settling behaviour  
   Substrate preferences

### **Color**

USE: **Colour**

### **Coloration**

USE: **Colour**

### **Colorimetric techniques**

UF: Colorimetry  
 BT: Analytical techniques  
 RT: Chromatographic techniques  
   Colour  
   Light measurement  
   Photometry  
   Spectroscopic techniques

## ASFA THESAURUS

Colorimetry  
USE: **Colorimetric techniques**

### Colour

UF: Color  
Coloration  
BT: Optical properties  
NT: Water colour  
RT: Chromatic adaptations  
Chromatic pigments  
Colorimetric techniques  
Discolouration  
Spectral composition

Columbium  
USE: **Niobium**

### Commensalism

BT: Interspecific relationships  
RT: Commensals  
Epizootes  
Parasites  
Symbiosis

### Commensals

RT: Commensalism  
Symbionts

### Commerce

RT: Economics  
Trade

Commercial aquaculture

USE: **Aquaculture enterprises**

### Commercial availability

SN: Commercial availability of  
primary and secondary fishery  
products  
BT: Availability

Commercial exploitation

USE: **Exploitation**

Commercial fisheries

USE: **Fisheries**

### Commercial fishing

SN: Any activities of fishing or  
harvesting of aquatic organisms  
for commercial purposes  
BT: Fishing  
NT: Foreign fishing  
Overfishing  
RT: Commercial species  
Fishery industry

Commercial land use

USE: **Land use**

### Commercial legislation

SN: Before 1982 search  
MARKETING LEGISLATION  
UF: Marketing legislation  
BT: Legislation  
NT: Fish inspection regulations  
RT: Pricing  
Quality control

Commercial organizations

USE: **Companies**

### Commercial species

SN: Animal or vegetal aquatic  
species of commercial value  
UF: Economic species  
BT: Species  
NT: Underutilized species  
RT: Catch composition  
Commercial fishing

Commercialization

USE: **Marketing**

Comminuted products

USE: **Minced products**

Commodity statistics

USE: **Industrial products statistics**

Common names

USE: **Vernacular names**

### Common property resources

SN: Natural resources held or used  
by all who choose to do so  
UF: Open access resources  
BT: Natural resources

Common salt

USE: **Sodium chloride**

Communicable diseases

USE: **Infectious diseases**

### Communication

NT: Animal communication  
Satellite communication  
RT: Communication systems  
Speech distortion

### Communication satellites

BT: Satellites  
RT: Satellite communication

### Communication systems

SN: Before 1982 search also  
COMMUNICATION DEVICES  
UF: Telecommunications  
NT: Radio  
Telephone systems  
Television systems

Telex

RT: Communication  
Diving equipment  
Microwaves  
Radio buoys  
Standard signals  
Submarine cables  
Telemetry

Communities (ecological)

USE: **Aquatic communities**

### Community composition

BT: Composition  
RT: Aquatic communities  
Biocoenosis  
Biological surveys  
Biota  
Climax community  
Dominant species  
Ecological succession  
Species diversity

### Community diversity

USE: Species diversity

### Compaction

BT: Diagenesis  
RT: Bearing capacity  
Consolidation  
Lithification  
Porosity  
Settlement (structural)  
Soil mechanics

### Companies

UF: Commercial organizations  
BT: Organizations

### Comparative studies

RT: Cost analysis

Compartmental models

USE: **Mathematical models**

### Compasses

UF: Magnetic compasses  
BT: Direction indicators  
Measuring devices  
Navigational aids  
NT: Gyrocompasses  
RT: Surveying

### Compensation depth

SN: Zone in aquatic environment  
where just enough light  
penetrates for the rate of  
photosynthesis to equal the  
rate of respiration  
UF: Compensation level

(cont'd)

## ASFA THESAURUS

### *Compensation depth (cont'd)*

NT: Carbonate compensation depth  
RT: Aerobic respiration  
Euphotic zone  
Light penetration  
Photosynthesis  
Primary production

Compensation depth (carbonate)  
USE: **Carbonate compensation depth**

Compensation depth (isostasy)  
USE: **Isostasy**

Compensation depth (oceans)  
USE: **Carbonate compensation depth**

Compensation level  
USE: **Compensation depth**

### **Competition**

UF: Biological competition  
BT: Interspecific relationships  
RT: Associated species  
Biotic pressure  
Competitive behaviour  
Competitors  
Dominance hierarchies  
Food availability  
Natural selection  
Overcrowding  
Prey selection

### **Competitive behaviour**

BT: Behaviour  
RT: Competition  
Competitors  
Home range  
Territoriality

### **Competitors**

RT: Competition  
Competitive behaviour  
Predators

Completion (well)

USE: **Well completion**

### **Complex lipids**

UF: Glycolipids  
Phospholipids  
Sphingolipids  
BT: Lipids

Compliant platforms

USE: **Guyed towers**

Compliant towers

USE: **Guyed towers**

### **Components**

RT: Equipment  
Materials

Composite cultures

USE: **Polyculture**

### **Composite materials**

BT: Materials

### **Composition**

SN: The nature of the elements present in a substance or organism and the proportion in which they occur. Use of a more specific term is recommended

NT: Biochemical composition

Chemical composition

Community composition

Mineral composition

Sediment composition

RT: Major constituents

### **Composts**

BT: Organic fertilizers

### **Compound eyes**

BT: Eyes

Compounds (organic)

USE: **Organic compounds**

### **Compressed gas**

BT: Gases  
RT: Compressors

### **Compressibility**

BT: Mechanical properties

RT: Bulk modulus

Compression

Elasticity

Plasticity

Porosity

### **Compression**

BT: Stress (mechanics)

RT: Compressibility

Deformation

Lithification

Pressure

Compression chambers

USE: **Decompression chambers**

Compression tables

USE: **Decompression tables**

### **Compressional wave velocities**

BT: Seismic velocities

RT: P-waves

Compressional waves (seismic)

USE: **P-waves**

### **Compressive strength**

BT: Strength

RT: Poisson's ratio

### **Compressors**

UF: Air compressors

RT: Compressed gas

Diving equipment

### **Computation**

RT: Computer programs

Mathematics

Models

Computer aided cartography

USE: **Automated cartography**

Computer models

USE: **Mathematical models**

Computer programmes

USE: **Computer programs**

### **Computer programs**

SN: Before 1986 search also

COMPUTER PROGRAMMES

UF: Computer programmes

RT: Algorithms

Artificial intelligence

Computation

Computers

Data processing

Linear programming

Numerical analysis

System analysis

### **Computers**

SN: Before 1985 search also

MINICOMPUTERS

UF: Microcomputers

Minicomputers

Shipboard computers

BT: Electronic equipment

RT: Automation

Computer programs

Data processing

Data storage

Microprocessors

Robots

### **Concessions**

SN: Use only for rights to exploit or explore for mineral resources

UF: Mineral rights

BT: Licences

RT: Mineral exploration

Mining legislation

Oil and gas exploration

Oil and gas legislation

## ASFA THESAURUS

Conch fisheries  
USE: **Gastropod fisheries**

### **Conchology**

SN: The branch of zoology dealing with shells of animals (molluscs, brachiopods, etc.)  
BT: Zoology  
RT: Malacology  
Shells

### **Concrete**

UF: Cement (building material)  
BT: Construction materials  
NT: Prestressed concrete  
Reinforced concrete  
RT: Concrete structures

Concrete platforms  
USE: **Concrete structures**

### **Concrete structures**

SN: Before 1986 search also  
CONCRETE PLATFORMS  
UF: Concrete platforms  
BT: Structures  
RT: Concrete  
Offshore structures  
Steel structures

### **Concretions**

SN: Use only for mineral deposits formed within sediments  
UF: Crusts (rocks)  
Encrustations  
BT: Chemical sediments  
RT: Cherts  
Nodules  
Ooids  
Oolites  
Sedimentary structures

Condensate fields  
USE: **Gas condensate fields**

### **Condensation**

BT: Phase changes  
RT: Dew point  
Evaporation  
Hydrometeors  
Saturation  
Sublimation  
Vaporization heat  
Vapour pressure  
Water vapour

### **Condition factor**

UF: Ponderal index  
BT: Population factors  
RT: Body conditions  
Growth  
Length-weight relationships

Conductance (electrical)  
USE: **Electrical conductivity**

Conduction (heat)  
USE: **Heat conduction**

Conductive heat transfer  
USE: **Heat conduction**

Conductivity (electrical)  
USE: **Electrical conductivity**

Conductivity (thermal)  
USE: **Thermal conductivity**

Conductivity probes  
USE: **Conductivity sensors**

### **Conductivity ratio**

BT: Ratios  
RT: Electrical conductivity

### **Conductivity sensors**

UF: Conductivity probes  
Electrical conductivity sensors  
BT: Sensors  
RT: CTD profilers  
Electrical conductivity  
Salinity measuring equipment  
STD profilers

Conductivity-temperature-depth observations  
USE: **CTD observations**

Conductivity-temperature-depth profilers  
USE: **CTD profilers**

### **Conferences**

SN: Use only to index the monographic entry for bound proceedings, and general reports on meetings; do not use for individual (analytic) conference papers  
UF: Colloquia  
Meetings  
Proceedings  
Seminars  
Symposia  
Workshops  
RT: Exhibitions  
Lectures  
Organizations

Configuration  
USE: **Shape**

Conflict of interests  
USE: **Disputes**

Conflicts  
USE: **Disputes**

### **Conglomerates**

RT: Breccia  
Calcrete  
Kimberlites

### **Conidia**

SN: Asexually formed spores produced by fungi  
BT: Spores  
RT: Asexual reproduction  
Fungi

### **Conjugation**

RT: Sexual reproduction

### **Connecting**

UF: Coupling (joining components)  
Tie-in  
RT: Connectors  
Pipeline construction

### **Connective tissues**

BT: Tissues  
NT: Cartilage  
RT: Blood  
Blood vessels  
Bones  
Collagen  
Musculoskeletal system  
Nerves

### **Connectors**

UF: Couplings (components)  
Underwater connectors  
RT: Connecting  
Electric cables  
Manifolds

### **Conservation**

SN: Conservation of nature and resources. Use of a more specific term is recommended  
NT: Nature conservation  
Resource conservation  
Soil conservation  
Water conservation  
RT: Conservation principles  
Depletion  
Environmental legislation  
Environmental protection  
Reclamation

Conservation (fishery products)  
USE: **Processing fishery products**

Conservation (organisms)  
USE: **Fixation**



## ASFA THESAURUS

### Conservation equations

BT: Equations  
RT: Diffusion  
Equation of continuity

### Conservation of angular momentum

BT: Conservation of momentum  
RT: Angular momentum  
Conservation of vorticity

### Conservation of energy

BT: Conservation principles  
RT: Energy

### Conservation of heat

BT: Conservation principles  
RT: Heat  
Heat transport

### Conservation of mass

BT: Conservation principles  
RT: Equation of continuity  
Mass

### Conservation of momentum

UF: Momentum conservation  
BT: Conservation principles  
NT: Conservation of angular momentum  
RT: Momentum

### Conservation of salt

BT: Conservation principles  
RT: Salt advection  
Salt budget  
Salts  
Water exchange

Conservation of volume

USE: **Equation of continuity**

### Conservation of vorticity

BT: Conservation principles  
RT: Absolute vorticity  
Barotropic mode  
Conservation of angular momentum  
Mesoscale eddies

### Conservation principles

NT: Conservation of energy  
Conservation of heat  
Conservation of mass  
Conservation of momentum  
Conservation of salt  
Conservation of vorticity  
RT: Conservation

### Conservative properties

BT: Properties  
RT: Enthalpy

Non-conservative properties

Salinity  
Water masses

### Consolidation

BT: Diagenesis  
RT: Cementation  
Compaction  
Lithification  
Soil mechanics

### Constants

NT: Association constants  
Elastic constants  
Solar constant  
Stability constants  
RT: Coefficients  
Ratios

### Construction

UF: Assembling  
NT: Installation  
Pipeline construction  
RT: Construction materials

### Construction materials

BT: Materials  
NT: Concrete  
RT: Construction  
Fibre glass

### Consultants

BT: Personnel  
RT: Experts  
Scientific personnel

### Consumers

UF: Purchasers  
RT: Purchasing

Contagious diseases

USE: **Infectious diseases**

Container ports

USE: **Ferry terminals**

### Container ships

BT: Merchant ships

### Containers

UF: Boxes  
Cans  
Packages  
NT: Tanks

### Containment

BT: Pollution control  
RT: Barrages  
Barriers  
Oil slicks  
Oil spills

Contamination (internal)

USE: **Radionuclide kinetics**

Contamination (radioactive)

USE: **Radioactive contamination**

Contamination of samples

USE: **Sample contamination**

Contiguous fishing zones

USE: **Contiguous zones**

### Contiguous zones

SN: Offshore area claimed by a nation for exclusive fishing rights  
UF: Contiguous fishing zones  
BT: Ocean space  
RT: Exclusive economic zone  
Fishery boundaries  
Fishing rights  
Territorial waters

Continental aerosols

USE: **Aerosols**

Continental borderland

USE: **Continental margins**

### Continental crust

BT: Earth crust  
RT: Continents  
Cratons  
Obduction  
Oceanic crust  
Oceanization  
Sial

### Continental drift

UF: Continental migration  
Drift (continental)  
Wegener hypothesis  
RT: Continents  
Drift  
Earth mantle  
Moho  
Ocean basins  
Palaeoclimate  
Palaeomagnetism  
Plate tectonics  
Polar wandering  
Seafloor spreading  
Tectonophysics

### Continental margins

SN: Before 1994 search also  
CONTINENTAL  
BORDERLAND  
UF: Borderland (continental)  
Continental borderland

(cont'd)

## ASFA THESAURUS

### *Continental margins (cont'd)*

Margins (continental)  
 BT: Submarine features  
 NT: Active margins  
   Passive margins  
 RT: Continental rise  
   Continental shelves  
   Continental slope  
   Continents  
   Cratons  
   Island arcs  
   Oceanic trenches

Continental migration  
 USE: **Continental drift**

Continental nations  
 USE: **Landlocked states**

### **Continental ridges**

BT: Ridges  
   Submarine features

### **Continental rise**

UF: Rise (continental)  
 BT: Submarine features  
 RT: Abyssal plains  
   Continental margins  
   Continental shelves  
   Continental slope  
   Contour currents  
   Nepheloid layer  
   Ocean floor

Continental shelf  
 USE: **Continental shelves**

Continental shelf break  
 USE: **Shelf edge**

Continental shelf edge  
 USE: **Shelf edge**

### **Continental shelves**

SN: Before 1982 search also  
   CONTINENTAL SHELF  
 UF: Continental shelf  
 BT: Submarine features  
 NT: Outer continental shelf  
 RT: Continental margins  
   Continental rise  
   Continental slope  
   Littoral zone  
   Marine environment  
   Neritic province  
   Offshore  
   Shallow water  
   Shelf dynamics  
   Shelf edge  
   Shelf edge fronts  
   Shelf geology  
   Shelf seas

Shelf sedimentation  
 Submarine canyons  
 Territorial waters

### **Continental slope**

BT: Submarine features  
 RT: Continental margins  
   Continental rise  
   Continental shelves  
   Continents  
   Contour currents  
   Island slope  
   Marginal basins  
   Ocean floor  
   Shelf edge  
   Slope environment  
   Slopes (topography)  
   Slumping  
   Submarine canyons

### **Continents**

BT: Landforms  
 RT: Continental crust  
   Continental drift  
   Continental margins  
   Continental slope  
   Cratons  
   Earth structure  
   Epeirogeny  
   Island arcs

Continuity equation  
 USE: **Equation of continuity**

### **Continuous culture**

BT: Aquaculture techniques  
 RT: Aquaria  
   Batch culture  
   Culture tanks  
   Phytoplankton culture  
   Zooplankton culture

Continuous profilers  
 USE: **Profilers**

Continuous tracking  
 USE: **Tracking**

### **Contour currents**

BT: Surface currents  
 RT: Bed forms  
   Bottom erosion  
   Continental rise  
   Continental slope  
   Contourites  
   Nepheloid layer  
   Topographic effects  
   Western boundary undercurrents

Contour feathers  
 USE: **Feathers**

### **Contourites**

BT: Clastics  
 RT: Contour currents

### **Contours**

BT: Isopleths  
 NT: Isobaths  
 RT: Depth  
   Profiles  
   Shape  
   Topography

Contractile vacuole  
 USE: **Cell organelles**

### **Contractors**

BT: Personnel  
 RT: Contracts

### **Contracts**

RT: Contractors

### **Control**

SN: Use of a more specific term is recommended  
 UF: Control systems  
 NT: Biological control  
   Blowout control  
   Chemical control  
   Corrosion control  
   Depth control  
   Disease control  
   Erosion control  
   Flood control  
   Fouling control  
   Parasite control  
   Pest control  
   Plant control  
   Pollution control  
   Population control  
   Predator control  
   Quality control  
   Remote control  
 RT: Control resistance  
   Damping  
   Monitoring

### **Control charts**

BT: Maps  
 RT: Critical path method  
   Quality control

### **Control resistance**

UF: Antibiotic resistance  
   Chemical resistance  
   Resistance to chemicals  
 BT: Biological resistance  
 RT: Control  
   Drug resistance

Control systems  
 USE: **Control**

## ASFA THESAURUS

### **Controlled conditions**

UF: Laboratory conditions  
RT: Experimental research  
Laboratories  
Laboratory culture

### **Convection**

UF: Convective heat transfer  
BT: Advection  
NT: Atmospheric convection  
Cellular convection  
Forced convection  
Mantle convection  
Oceanic convection  
RT: Heat transfer  
Heat transport  
Mass transfer

Convective heat transfer

USE: **Convection**

Convective overturn

USE: **Overturn**

Conventions

USE: **International agreements**

### **Convergence**

NT: Plate convergence  
RT: Convergence zones  
Divergence  
Downwelling  
Frontal features  
Frontogenesis  
Horizontal motion  
Langmuir circulation

### **Convergence zones**

NT: Atmospheric convergences  
Intertropical convergence zone  
Oceanic convergences  
RT: Advection  
Convergence  
Divergence zones  
Frontal features  
Fronts  
Water masses

Convergent evolution

USE: **Evolution**

Convergent margins

USE: **Active margins**

### **Converging plate boundaries**

BT: Plate boundaries  
RT: Diverging plate boundaries  
Island arcs  
Oceanic trenches  
Plate convergence  
Subduction zones

Conversion efficiency

USE: **Food conversion**

### **Conversion factors**

RT: Animal metabolism  
Bioenergetics  
Conversion tables  
Feed efficiency  
Oxygen consumption

### **Conversion tables**

UF: Nomograms  
BT: Tables  
RT: Conversion factors  
Meteorological tables  
Numerical analysis  
Oceanographic tables

Conversion tables (meteorology)

USE: **Meteorological tables**

### **Convolution**

BT: Mathematical analysis  
RT: Cross correlation  
Deconvolution  
Seismic data processing

### **Cooling**

UF: Heat dissipation  
BT: Heat transfer  
RT: Cooling ponds  
Cooling systems  
Cooling water  
Freezing  
Heating

### **Cooling ponds**

BT: Ponds  
RT: Cooling  
Power plants  
Thermal pollution

### **Cooling systems**

RT: Cooling  
Open systems

### **Cooling water**

BT: Water  
RT: Cooling  
Entrainment  
Power plants  
Thermal pollution

### **Cooperatives**

UF: Fishery cooperatives  
RT: Fishery organizations

### **Coordinate systems**

UF: Cartesian coordinates  
RT: Geodetic coordinates  
Geographical coordinates

Copolymerization

USE: **Polymerization**

### **Copper**

BT: Heavy metals  
Transition elements  
RT: Copper compounds  
Ferromanganese nodules  
Haemocyanins  
Metalliferous sediments

### **Copper compounds**

BT: Chemical compounds  
RT: Copper

### **Coprecipitation**

BT: Chemical precipitation  
RT: Flocculation

### **Coral**

SN: Before 1982 search also  
CORALS  
BT: Animal products  
RT: Atolls  
Calcium compounds  
Coral farming  
Coral reefs

Coral culture

USE: **Coral farming**

### **Coral farming**

UF: Coral culture  
BT: Cultures  
RT: Coral  
Coral reefs  
Marine aquaculture

Coral islands

USE: **Atolls**

### **Coral reefs**

UF: Reefs (coral)  
BT: Biogenic deposits  
Reefs  
NT: Barrier reefs  
Fringing reefs  
RT: Atolls  
Biogenic sedimentary structures  
Bioherms  
Carbonate rocks  
Cays  
Coral  
Coral farming  
Lagoons  
Marine environment  
Polyps  
Reef fish  
Reef fisheries  
Tropical fish

## ASFA THESAURUS

Corange charts  
USE: **Tidal charts**

Corange lines  
USE: **Isopleths**

Core (earth)  
USE: **Earth core**

**Core analysis**  
BT: Analysis  
Sediment analysis  
RT: Core handling  
Cores

**Core handling**  
RT: Core analysis  
Core recovery  
Cores  
Coring  
Sample storage

**Core layer method**  
RT: Core layers (water)  
Outflow waters  
T/S diagrams  
Water mixing

**Core layers (water)**  
BT: Layers  
NT: Oxygen maximum layer  
Oxygen minimum layer  
Salinity maximum layer  
Salinity minimum layer  
Temperature maximum layer  
Temperature minimum layer  
RT: Core layer method  
T/S diagrams  
Water masses  
Water types

**Core orientation**  
UF: Magnetic core orientation  
BT: Orientation  
RT: Cores  
Remanent magnetization

**Core recovery**  
BT: Recovery  
RT: Core handling  
Cores  
Coring

Core samples  
USE: **Cores**

Core sampling  
USE: **Coring**

**Corers**  
SN: Before 1982 search CORING  
DEVICES

UF: Boomerang corers  
Coring devices  
Free-fall corers  
BT: Sediment samplers  
NT: Gravity corers  
Piston corers  
Vibratory corers  
RT: Cores  
Coring  
Drilling equipment  
Penetrometers

**Cores**  
UF: Core samples  
BT: Sediment samples  
RT: Boreholes  
Core analysis  
Core handling  
Core orientation  
Core recovery  
Corers  
Coring

**Coring**  
SN: Bottom sampling and core  
studies  
UF: Core sampling  
BT: Sediment sampling  
RT: Core handling  
Core recovery  
Corers  
Cores  
Drilling  
Underwater exploration

Coring devices  
USE: **Corers**

**Coriolis acceleration**  
BT: Acceleration  
RT: Coriolis force  
Coriolis parameters

**Coriolis force**  
BT: Forces (mechanics)  
RT: Acceleration  
Atmospheric circulation  
Coriolis acceleration  
Coriolis parameters  
Geostrophic equilibrium  
Geostrophic flow  
Hydrostatic equation  
Rossby number  
Rotary currents  
Vorticity  
Water circulation

**Coriolis parameters**  
BT: Parameters  
RT: Absolute vorticity  
Beta spirals  
Beta-plane

Coriolis acceleration  
Coriolis force  
Ekman spiral  
Planetary vorticity  
Rossby parameter  
Stream functions

**Corrections**  
NT: Gravity corrections  
RT: Errors

**Correlation**  
NT: Geological correlation  
RT: Correlation analysis

**Correlation analysis**  
UF: Correlation functions  
BT: Statistical analysis  
NT: Autocorrelation  
Cross correlation  
RT: Correlation  
Numerical taxonomy  
Regression analysis  
Time series analysis  
Variance analysis

Correlation functions  
USE: **Correlation analysis**

Correspondence (letters)  
USE: **Documents**

**Corrosion**  
UF: Cavitation erosion  
Crevice corrosion  
Pitting  
Rust  
BT: Chemical reactions  
NT: Cracking (corrosion)  
Stress corrosion  
RT: Antioxidants  
Cavitation  
Chemical degradation  
Corrosion control  
Deterioration  
Electrochemistry  
Electrolysis  
Fatigue (materials)  
Oxidation  
Splash zone  
Weathering

**Corrosion control**  
UF: Anticorrosion material  
Corrosion inhibition  
Corrosion prevention  
Corrosion protection  
BT: Control  
NT: Cathodic protection  
RT: Antioxidants

(cont'd)

## ASFA THESAURUS

### *Corrosion control (cont'd)*

Coating processes  
Corrosion  
Maintenance and repair  
Stainless steel

### Corrosion cracking

USE: **Cracking (corrosion)**

### Corrosion inhibition

USE: **Corrosion control**

### Corrosion prevention

USE: **Corrosion control**

### Corrosion protection

USE: **Corrosion control**

### Cosine collectors

BT: Light measuring instruments  
RT: Irradiance

### Cosmic dust

UF: Dust (cosmic)  
BT: Dust  
Extraterrestrial material  
RT: Eolian dust  
Sediments

### Cosmic radiation

UF: Cosmic rays  
BT: Ionizing radiation

### Cosmic rays

USE: **Cosmic radiation**

### Cosmic spherules

UF: Magnetic spherules  
BT: Extraterrestrial material  
RT: Magnetite

### Cosmopolite species

BT: Species  
RT: Biogeography  
Geographical distribution

### Cost analysis

SN: Study of costs related to technical and financial operations in aquaculture, commercial fishing, fishing industry, marketing, trade, etc.  
BT: Analysis  
RT: Comparative studies  
Costs  
Economic analysis  
Economic feasibility  
Market research  
Pricing

### Costs

UF: Expenses

### Prices

NT: Labour costs  
Operational costs  
Production cost  
RT: Cost analysis  
Pricing  
Purchasing

### Cotidal charts

BT: Tidal charts  
RT: Cotidal lines  
Tidal propagation

### Cotidal lines

BT: Isopleths  
RT: Amphidromic systems  
Cotidal charts  
High tide  
Tidal range

### Couette flow

BT: Laminar flow  
RT: Shear stress

### Countercurrents

BT: Water currents  
NT: Coastal countercurrents  
Equatorial countercurrents  
RT: Ocean currents

### Counters

SN: Automatic devices for biological and physical counting  
NT: Bacterial counters  
Cell counters  
Egg counters  
Fish counters  
Geiger counters  
Particle counters

### Countries

UF: States (political)  
NT: Coastal states  
Developed countries  
Developing countries  
Landlocked states  
RT: Governments

### Coupled bodies

RT: Hydrodynamics

### Coupling (joining components)

USE: **Connecting**

### Couplings (components)

USE: **Connectors**

### Courtship

RT: Display behaviour  
Reproductive behaviour

### Crab culture

SN: Before 1982 search  
CRUSTACEAN CULTURE  
UF: Brackishwater crab culture  
Freshwater crab culture  
Marine crab culture  
BT: Crustacean culture  
RT: Polyculture  
Pond culture

### Crab fisheries

UF: Dungeness crab fisheries  
Edible crab fisheries  
King crab fisheries  
Market crab fisheries  
Snow crab fisheries  
Tanner crab fisheries  
BT: Crustacean fisheries  
RT: Trap fishing

### Crack propagation

RT: Cracks  
Deterioration

### Cracking (corrosion)

UF: Corrosion cracking  
BT: Corrosion  
RT: Cracks  
Embrittlement

### Cracks

BT: Defects  
RT: Crack propagation  
Cracking (corrosion)  
Fractures

### Crane barges

BT: Barges  
RT: Cranes  
Support ships

### Cranes

UF: Derricks  
Hoists  
BT: Lifting tackle  
RT: Crane barges

### Cratons

RT: Continental crust  
Continental margins  
Continents  
Platforms (geology)

### Crawfish culture

USE: **Crayfish culture**

### Crawlers

USE: **Seabed vehicles**

## ASFA THESAURUS

### **Crayfish culture**

SN: Before 1982 search

CRUSTACEAN CULTURE

UF: Astaciculture

Crawfish culture

Crayfish farming

BT: Crustacean culture

RT: Pond culture

Rice field aquaculture

Crayfish farming

USE: **Crayfish culture**

Crayfish fisheries

USE: **Lobster fisheries**

Credit management

USE: **Financial management**

Creel census

USE: **Sport fishing statistics**

### **Creep**

UF: Solifluction

RT: Deformation

Landslides

Mass movement

Slides

Slope stability

Slumping

Soil mechanics

### **Cretaceous**

SN: Before 1982 search

CRETACEOUS PERIOD

BT: Mesozoic

Crevice corrosion

USE: **Corrosion**

Crew

BT: **Personnel**

### **Cristobalite**

BT: Oxide minerals

RT: Silica

### **Critical flow**

BT: Fluid flow

### **Critical path method**

BT: Operations research

RT: Control charts

Numerical analysis

PERT

Prediction

Croaker fisheries

USE: **Percoid fisheries**

Crocodile farming

USE: **Reptile culture**

Cross breeding

USE: **Hybrid culture**

### **Cross correlation**

BT: Correlation analysis

RT: Autocorrelation

Convolution

Cross pollination

USE: **Pollination**

Crowding

USE: **Stocking density**

### **Crude oil**

BT: Petroleum

RT: Natural gas

Oil

Oil production

Oil recovery

Crude oil production

USE: **Oil production**

Crude oil treating

USE: **Oil treating**

### **Cruise programmes**

BT: Programmes

RT: Cruises

Research programmes

Research vessels

### **Cruise reports**

SN: Preliminary report on results obtained during a cruise by one research vessel

BT: Data reports

RT: Cruises

Expedition reports

Track charts

### **Cruise stations**

UF: Anchor stations

Expedition stations

BT: Oceanographic stations

RT: Cruises

Track charts

### **Cruises**

SN: Use only for surveys involving one vessel

UF: Expeditions (one vessel)

BT: Expeditions

RT: Cruise programmes

Cruise reports

Cruise stations

Multiship expeditions

Surveys

Track charts

Crust (earth)

USE: **Earth crust**

Crust (ocean)

USE: **Oceanic crust**

### **Crustacean culture**

BT: Shellfish culture

NT: Brine shrimp culture

Crab culture

Crayfish culture

Lobster culture

Prawn culture

Shrimp culture

RT: Cage culture

Crustacean larvae

Freshwater crustaceans

Marine crustaceans

Mass culture

Monoculture

Pond culture

Raceway culture

### **Crustacean fisheries**

BT: Shellfish fisheries

NT: Crab fisheries

Krill fisheries

Lobster fisheries

Shrimp fisheries

Squat lobster fisheries

RT: Coastal fisheries

Demersal fisheries

Freshwater crustaceans

Marine crustaceans

River fisheries

### **Crustacean larvae**

BT: Invertebrate larvae

NT: Megalops

Nauplii

Phyllosomae

Zoeae

RT: Crustacean culture

Freshwater crustaceans

Marine crustaceans

Crustaceans

USE: **Shellfish**

Crustaceans (freshwater)

USE: **Freshwater crustaceans**

Crustaceans (marine)

USE: **Marine crustaceans**

### **Crustal accretion**

BT: Accretion

RT: Diverging plate boundaries

Oceanic crust

Plate divergence

## ASFA THESAURUS

### **Crustal adjustment**

NT: Isostasy  
RT: Epeirogeny  
Plate tectonics

### **Crustal shortening**

BT: Diastrophism  
RT: Earth crust  
Epeirogeny

### **Crustal structure**

RT: Earth crust

### **Crustal thickness**

BT: Thickness  
RT: Earth crust

### **Crusts (rocks)**

USE: **Concretions**

### **Cryobiology**

SN: Low temperature biology  
BT: Biology  
RT: Cold resistance  
Cryoplankton  
Physiology  
Temperature tolerance

### **Cryoplankton**

SN: Ice- and snow-inhabiting organisms  
BT: Plankton  
RT: Cryobiology

### **Cryopreservation**

USE: **Freezing storage**

### **Cryoprotectants**

USE: **Freezing storage**

### **Cryosphere**

BT: Hydrosphere  
RT: Glaciers  
Ice  
Ice caps  
Ice volume  
Permafrost

### **Crystallization**

### **CTD measurements**

USE: **CTD observations**

### **CTD observations**

UF: Conductivity-temperature-depth observations  
CTD measurements  
BT: Hydrographic data  
RT: CTD profilers

### **Finestructure**

STD observations

### **CTD probes**

USE: **CTD profilers**

### **CTD profilers**

UF: Conductivity-temperature depth profilers  
CTD probes  
CTD sensors  
BT: Profilers  
RT: Conductivity sensors  
CTD observations  
Electrical conductivity  
Finestructure  
Salinity measuring equipment  
Salinity profiles  
STD profilers  
Temperature profiles  
Thermometers  
Vertical profiles

### **CTD sensors**

USE: **CTD profilers**

### **Culch**

USE: **Cultch**

### **Culling**

SN: Removal or killing of a certain number of animals to maintain a steady population

### **Cultch**

SN: Any substrata placed in the environment to attract the attachment of oyster larvae  
UF: Culch  
Cultch material  
BT: Artificial substrata  
RT: Larval settlement  
Oyster culture  
Spat  
Substrate preferences

### **Cultch material**

USE: **Cultch**

### **Culture effects**

SN: Effects of aquaculture practice on the ecosystem  
BT: Environmental effects  
RT: Aquaculture  
Biological pollutants

### **Culture media**

SN: Fluid, solid and nutritive media for culture of tissue and organisms  
RT: Cell culture

### **Laboratory culture**

Tissue culture

### **Culture tanks**

BT: Tanks  
RT: Algal culture  
Aquaculture equipment  
Batch culture  
Continuous culture  
Hatcheries  
Laboratory culture  
Rearing  
Recirculating systems

### **Cultured fish**

USE: **Cultured organisms**

### **Cultured food**

USE: **Cultured organisms**

### **Cultured organisms**

UF: Cultured fish  
Cultured food  
Cultured species  
BT: Aquatic organisms  
RT: Aquaculture  
Aquaculture products  
Domestic species  
Microbiological culture  
Phytoplankton culture  
Zooplankton culture

### **Cultured species**

USE: **Cultured organisms**

### **Cultures**

SN: Use of a more specific term is recommended  
NT: Algal culture  
Coral farming  
Fish culture  
Frog culture  
Plant culture  
Reptile culture  
Shellfish culture  
Sponge culture  
Worm culture  
Zooplankton culture  
RT: Aquaculture  
Aquaculture systems  
Aquaculture techniques  
Experimental culture  
Laboratory culture

### **Cumulus**

USE: **Clouds**

### **Cup anemometers**

USE: **Anemometers**

## ASFA THESAURUS

### **Cured products**

UF: Dried salted products  
 Marinated products  
 Smoked products  
 BT: Processed fishery products  
 RT: Curing  
 Dried products

### **Curing**

SN: To preserve by salting, drying, smoking, fermentation or a combination of these methods  
 UF: Salting  
 Smoking  
 BT: Processing fishery products  
 RT: Cured products  
 Dressing  
 Drying

### **Curium**

BT: Actinides  
 Transuranic elements  
 RT: Curium isotopes

### **Curium isotopes**

BT: Isotopes  
 RT: Curium

### **Curl (vectors)**

BT: Vectors  
 NT: Wind stress curl  
 RT: Vorticity

Curl of wind stress

USE: **Wind stress curl**

### **Current charts**

UF: Tidal current charts  
 BT: Hydrographic charts  
 RT: Current direction  
 Current roses  
 Current vectors  
 Current velocity  
 Streamlines  
 Tidal charts  
 Tide tables  
 Water currents

### **Current data**

SN: Data collections obtained by any method of current measurement  
 UF: Water current data  
 BT: Hydrographic data  
 RT: Current direction  
 Current measurement  
 Current observations  
 Current velocity  
 Oceanographic data  
 Water currents

### **Current density**

BT: Density  
 RT: Electric currents

### **Current direction**

RT: Current charts  
 Current data  
 Current roses  
 Streamlines  
 Water currents

### **Current ellipses**

BT: Hodographs  
 RT: Rotary currents

### **Current forces**

BT: Loads (forces)  
 RT: Current velocity  
 Hydrodynamics  
 Vortex shedding  
 Water currents

### **Current marks**

UF: Flute casts  
 Sole marks  
 BT: Bedding structures  
 NT: Scour marks

### **Current meandering**

UF: Meandering (currents)  
 BT: Meandering  
 RT: Current rings  
 Fluid motion  
 Mesoscale eddies  
 Mesoscale features  
 Water currents

Current meanders

USE: **Current rings**

### **Current measurement**

SN: Methods for measuring speed and direction of water currents  
 UF: Current measuring  
 Current measuring methods  
 Velocity measurement (water)  
 BT: Flow measurement  
 NT: Eulerian current measurement  
 Lagrangian current measurement  
 RT: Current data  
 Current measuring equipment  
 Current observations  
 Current velocity  
 Photogrammetry  
 Water currents

Current measuring

USE: **Current measurement**

### **Current measuring equipment**

BT: Flow measuring equipment  
 NT: Current meters

Current sensors

Drifters

RT: Current measurement

Drogues

GEK

Water currents

Current measuring methods

USE: **Current measurement**

### **Current meter arrays**

BT: Arrays  
 RT: Current meters

### **Current meter data**

BT: Hydrographic data  
 RT: Current meters

### **Current meter moorings**

BT: Mooring systems  
 RT: Current meters

Current meter vanes

USE: **Vanes**

### **Current meters**

SN: For measurement of water speed and direction only  
 BT: Current measuring equipment  
 NT: Acoustic current meters  
 RT: Current meter arrays  
 Current meter data  
 Current meter moorings  
 Current observations  
 Current sensors  
 Flowmeters  
 Water currents

### **Current observations**

UF: Water current observations  
 RT: Current data  
 Current measurement  
 Current meters  
 Hydrographic data

### **Current power**

SN: Power derived from water currents  
 UF: Ocean current energy conversion  
 RT: Power from the sea  
 Water currents

### **Current prediction**

BT: Prediction  
 RT: Water currents

### **Current profiles**

UF: Current speed profiles  
 BT: Velocity profiles



## ASFA THESAURUS

### Current reversal

RT: Monsoon reversal  
Water currents

### Current rings

SN: Oceanic eddies of order 10 kms diameter  
UF: Anticyclonic eddies  
Anticyclonic rings  
Current meanders  
Cyclonic eddies  
Cyclonic rings  
Gulf stream rings  
Meanders (current)  
BT: Oceanic eddies  
RT: Current meandering  
Ocean currents  
Vortices

### Current roses

BT: Map graphics  
RT: Current charts  
Current direction  
Current velocity  
Water currents  
Wind roses

### Current scouring

UF: Tidal scour  
BT: Scouring  
RT: Bed forms  
Bottom currents  
Bottom erosion  
Flow around objects  
Scour and fill  
Scour hollows  
Scour marks  
Water currents  
Wave scouring

### Current sensors

BT: Current measuring equipment  
Sensors  
RT: Current meters  
Flowmeters

### Current shear

BT: Shear  
RT: Wind shear

### Current spectra

BT: Spectra

### Current speed

USE: **Current velocity**

### Current speed profiles

USE: **Current profiles**

### Current vectors

BT: Vectors  
RT: Current charts

### Current velocity

Streamlines  
Water currents

### Current velocity

UF: Current speed  
BT: Velocity  
NT: Stream flow rate  
RT: Current charts  
Current data  
Current forces  
Current measurement  
Current roses  
Current vectors  
Electric potential  
Flowmeters  
Tide tables  
Velocity microstructure  
Velocity sections  
Volume transport  
Westward intensification

### Currents (electric)

USE: **Electric currents**

### Currents (water)

USE: **Water currents**

### Curricula

SN: Before 1982 search also  
EDUCATION  
UF: Syllabuses  
Training programmes  
RT: Education

### Curves (graphs)

USE: **Graphs**

### Cusplate forelands

USE: **Headlands**

### Customary fishing rights

USE: **Fishing rights**

### Cuticles

SN: A layer covering and secreted by the epidermis of plants and many invertebrates  
BT: Exoskeleton  
RT: Chitin  
Transpiration

### Cutting

NT: Cutting underwater  
RT: Welding

### Cutting underwater

BT: Cutting  
Working underwater  
RT: Welding underwater

### Cuttlefish fisheries

USE: **Cephalopod fisheries**

### Cyanides

BT: Chemical compounds  
RT: Carbon compounds  
Nitrogen compounds  
Salts

### Cycles

SN: Use of a more specific term is recommended  
UF: Rhythms  
NT: Chemical cycles  
Hydrologic cycle  
Life cycle  
Tidal cycles  
Trophodynamic cycle  
RT: Energy budget  
Food webs  
Moon phases

### Cyclic loading

BT: Loads (forces)  
RT: Dynamic loads  
Fatigue (materials)  
Ocean loading  
Periodic variations  
Wave-induced loading  
Wave-seabed interaction

### Cyclogenesis

RT: Cyclones

### Cyclomorphosis

SN: Seasonal change in morphology displayed by some planktonic animals  
BT: Biopolymorphism  
RT: Defence mechanisms

### Cyclones

SN: Use of a more specific term is recommended  
UF: Depressions (meteorology)  
Midlatitude cyclones  
BT: Low pressure systems  
RT: Anticyclones  
Cyclogenesis  
Hurricanes  
Polar fronts  
Winds

### Cyclones (tropical)

USE: **Hurricanes**

### Cyclonic eddies

USE: **Current rings**

## ASFA THESAURUS

### **Cyclonic motion**

BT: Motion  
RT: Anticyclonic motion  
Rotation

Cyclonic rings

USE: **Current rings**

### **Cylinders**

RT: Cylindrical structures  
Tubing

Cylindrical bodies

USE: **Cylindrical structures**

### **Cylindrical structures**

SN: Before 1986 search also  
CYLINDRICAL BODIES  
UF: Cylindrical bodies  
BT: Structures  
RT: Cylinders

### **Cysteine**

BT: Amino acids

### **Cystine**

BT: Amino acids

### **Cysts**

SN: Resistant resting stages formed  
by different organisms, as a  
response to adverse  
environmental conditions  
UF: Dormant stages  
RT: Encystment

### **Cytochemistry**

BT: Biochemistry  
RT: Cytochromes  
Cytology  
Cytotoxicity

### **Cytochromes**

BT: Coenzymes  
RT: Cytochemistry  
Oxidation  
Proteins

### **Cytogenetics**

SN: Before 1995 search  
GENETICS  
BT: Genetics

Cytokinins

USE: **Phytohormones**

### **Cytology**

UF: Cell biology  
BT: Biology  
NT: Karyology  
RT: Cell constituents  
Cell differentiation

Cell division  
Cell membranes  
Cell morphology  
Cell organelles  
Cells  
Cytochemistry  
Cytoplasm  
Cytotoxicity  
Fixatives  
Histology  
Microscopy

### **Cytoplasm**

UF: Bioplasm  
Protoplasm  
BT: Cell constituents  
RT: Cell inclusions  
Cytology  
Golgi apparatus  
Plastids  
Protoplasts  
Ribosomes  
Yolk

Cytoplasmic membranes

USE: **Cell membranes**

### **Cytotoxicity**

BT: Toxicity  
RT: Cytochemistry  
Cytology

### **Daily**

BT: Periodicity  
RT: Diurnal variations

Daily variation

USE: **Diurnal variations**

### **Damage**

NT: Biological damage  
RT: Accidents  
Defects  
Deterioration  
Failures  
Fire  
Hazards  
Maintenance and repair

Damage (biological)

USE: **Biological damage**

### **Damping**

SN: To artificially reduce amplitude  
or physical processes  
UF: Suppressing  
NT: Evaporation reduction  
Noise reduction  
Wave damping  
RT: Attenuation  
Control

Suppressors

Vibration

Damping (water waves)

USE: **Wave damping**

### **Dams**

SN: Fixed structures for the  
containment etc. of water in  
valleys  
BT: Barrages  
RT: Backwaters  
Fishways  
Flood control  
Impoundments  
Pond construction  
Ponds  
Water reservoirs  
Weirs

Danger

USE: **Hazards**

Dangerous materials

USE: **Hazardous materials**

### **Dangerous organisms**

SN: Harmful to persons  
BT: Aquatic organisms  
RT: Biological damage  
Diving hazards

Danish seines

USE: **Boat seines**

### **Data**

SN: Use of a more specific term is  
recommended  
NT: Acoustic data  
Biological data  
Experimental data  
Fishery data  
Geological data  
Geophysical data  
Geotechnical data  
Hydrographic data  
Limnological data  
Meteorological data  
Oceanographic data  
Pollution data  
Temperature data  
Wave data  
RT: Data acquisition  
Data collections  
Data loggers  
Data processing  
Data reports  
Data storage

## ASFA THESAURUS

### **Data acquisition**

BT: Acquisition

RT: Data

Data loggers

Data processing

Data storage

Remote sensing

Data analysis

USE: **Data processing**

Data banks

USE: **Data collections**

### **Data buoys**

UF: Meteorological buoys

Oceanographic buoys

Rafts (instrument carriers)

BT: Buoys

NT: Drifting data buoys

Wave buoys

RT: Lagrangian current

measurement

Ocean stations

Oceanographic equipment

Recording equipment

Weather ships

Data catalogues

USE: **Inventories**

Data centres

USE: **Information centres**

### **Data collections**

UF: Data banks

Databases

BT: Collections

RT: Census

Data

Data processing

Data storage

Documentation

Inventories

Libraries

Report literature

Surveys

### **Data converters**

SN: Analog/digital converters

RT: Analog records

Digital records

Data handling

USE: **Data processing**

### **Data loggers**

RT: Data

Data acquisition

Recording equipment

Data presentation (graphics)

USE: **Graphics**

### **Data processing**

UF: Automated data processing

Batch processing

Data analysis

Data handling

NT: Data reduction

Seismic data processing

Signal processing

RT: Automation

Computer programs

Computers

Data

Data acquisition

Data collections

Data storage

### **Data reduction**

BT: Data processing

RT: Reference levels

Seismic data processing

Spectral analysis

### **Data reports**

BT: Report literature

NT: Cruise reports

Station lists

RT: Data

Ocean stations

Data retrieval

USE: **Information retrieval**

### **Data storage**

BT: Storage

RT: Computers

Data

Data acquisition

Data collections

Data processing

### **Data transmission**

NT: Facsimile transmission

RT: Telemetry

Databases

USE: **Data collections**

Dating (biological)

USE: **Age determination**

Dating (earth sciences)

USE: **Geochronometry**

### **Datum levels**

BT: Reference levels

NT: Chart datum

Tidal datum

RT: Bench marks

Geodesy

Levelling

Sea level

### **Davits**

BT: Lifting tackle

RT: Gear handling

Day length

USE: **Photoperiods**

### **Daytime**

RT: Diurnal variations

Nighttime

### **DDE**

UF: Dichlorodiphenylethylene

BT: Chlorinated hydrocarbons

### **DDT**

UF: Dichlorodiphenyl-

trichloroethane

BT: Chlorinated hydrocarbons

RT: Chemical pollutants

Pesticides

Toxicants

De-icing

USE: **Deicing**

De-icing equipment

USE: **Deicing equipment**

Dead bodies

USE: **Carcasses**

### **Dead reckoning**

BT: Navigation

RT: Inertial navigation

Ship drift

### **Dead water**

RT: Density stratification

Interface phenomena

Internal wave effects

Surface wave-internal wave

interactions

Water

### **Deamination**

BT: Chemical reactions

RT: Amination

Death rate

USE: **Mortality**

Debris (nuclear)

USE: **Fission products**

## ASFA THESAURUS

### **Debris flow**

UF: Mudflows  
Rock falls  
BT: Mass gravity transport (sediments)  
RT: Melanges  
Olistostromes

### **Debubbling**

RT: Bubbles  
Bubbling

### **Decalcification**

SN: The process of absorption of lime salts from bones  
BT: Biochemical phenomena  
RT: Bones  
Calcification  
Shells

### **Decantation**

SN: Decantation of transported solid pollutants or suspended sediments  
BT: Separation  
RT: Sedimentation  
Sludge treatment  
Waste treatment  
Water pollution treatment  
Water treatment

### **Decarboxylation**

BT: Chemical reactions  
RT: Carboxylation

### **Decay**

BT: Degradation

### **Decca**

BT: Radio navigation  
RT: Navigational tables

### **Dechlorination**

RT: Chlorination  
Chlorine  
Disinfection  
Sewage treatment  
Water purification  
Water treatment

Deck compression chambers

USE: **Decompression chambers**

### **Deck equipment**

UF: Deck machinery  
Handling equipment  
BT: Equipment  
NT: Lifting tackle  
RT: Decks  
Gear handling  
Hydraulic systems  
Oceanographic equipment

Rigging  
Safety devices

Deck machinery  
USE: **Deck equipment**

Deck safety equipment  
USE: **Safety devices**

### **Decks**

NT: Helidecks  
RT: Deck equipment  
Mobile platforms

### **Decomposers**

SN: Micro-organisms returning nutrients to water by biodegradation  
BT: Heterotrophic organisms  
RT: Bacteria  
Biodegradation  
Food chains  
Fungi

Decomposition  
USE: **Degradation**

### **Decompression**

RT: Decompression chambers  
Decompression sickness  
Decompression tables  
Hydrostatic pressure  
Saturation diving

### **Decompression chambers**

UF: Compression chambers  
Deck compression chambers  
Hyperbaric chambers  
Pressure chambers  
Transfer chambers  
BT: Diving equipment  
RT: Decompression  
Decompression sickness  
Decompression tables  
Diving bells  
High pressure effects  
Hyperbaric

### **Decompression sickness**

SN: Before 1986 search also BENDS  
UF: Bends  
BT: Human diseases  
RT: Decompression  
Decompression chambers  
Decompression tables  
Diving physiology  
Nitrogen narcosis  
Underwater medicine

### **Decompression tables**

UF: Compression tables

BT: Tables  
RT: Decompression  
Decompression chambers  
Decompression sickness  
Diving equipment

### **Deconvolution**

UF: Seismic deconvolution  
BT: Mathematical analysis  
RT: Convolution  
Seismic data processing

Deep adjacent seas

USE: **Marginal seas**

### **Deep currents**

SN: Midwater currents in deep ocean  
BT: Subsurface currents  
RT: Bottom currents  
Deep water  
Water depth

### **Deep layer**

UF: Deep layers (water column)  
BT: Water column  
RT: Benthic boundary layer  
Bottom mixed layer  
Hypolimnion

Deep layers (lakes)

USE: **Hypolimnion**

Deep layers (water column)

USE: **Deep layer**

Deep ocean mining

USE: **Deep-sea mining**

Deep scattering layers

USE: **Scattering layers**

Deep sea

USE: **Deep water**

Deep tow

USE: **Towed vehicles**

### **Deep water**

UF: Deep sea  
BT: Water  
RT: Aphotic zone  
Bathymetry  
Deep currents  
Deep water formation  
Hypolimnion  
Shallow water  
Water depth

### **Deep water formation**

RT: Deep water

## ASFA THESAURUS

Deep-sea bed  
USE: **Ocean floor**

**Deep-sea channels**  
BT: Seachannels  
Submarine features

**Deep-sea diving**  
UF: Dry diving  
BT: Diving  
RT: Breathing mixtures  
One-atmosphere systems  
Submersibles  
Underwater exploration

**Deep-sea drilling**  
SN: Drilling operations beyond the continental shelf  
BT: Drilling  
Offshore operations  
RT: Deep-sea mining  
Drilling vessels  
Hole re-entry

Deep-sea erosion  
USE: **Bottom erosion**

**Deep-sea fans**  
UF: Abyssal cones  
Sea fans  
Submarine fans  
BT: Fans  
Submarine features  
RT: Alluvial fans  
Seachannels  
Submarine canyons  
Turbidites

**Deep-sea fisheries**  
BT: Marine fisheries

**Deep-sea furrows**  
UF: Furrows (deep-sea)  
BT: Submarine features  
RT: Bottom erosion  
Oceanic trenches

Deep-sea lobster fisheries  
USE: **Lobster fisheries**

**Deep-sea mining**  
UF: Deep ocean mining  
BT: Mining  
Offshore operations  
RT: Deep-sea drilling  
Mining vessels  
Seabed deposits  
Subsurface deposits

Deep-sea terraces  
USE: **Terraces**

Deep-sea thermometers  
USE: **Thermometers**

**Deep-sea tide gauges**  
BT: Tide gauges

**Deep-water masses**  
UF: Bottom water masses  
BT: Water masses  
RT: Bottom water

**Deep-water terminals**  
BT: Tanker terminals  
RT: Offshore docking

**Deep-water waves**  
BT: Water waves

**Defaecation**  
UF: Defecation  
BT: Excretion  
RT: Faecal pellets

Defecation  
USE: **Defaecation**

**Defects**  
SN: Use for faults of construction or results of damage or deterioration  
UF: Faults (defects)  
Flaws  
NT: Cracks  
Fractures  
Leaks  
Spalling  
RT: Damage  
Deterioration  
Failures

Defence  
USE: **Security**

**Defence craft**  
SN: Vessels designed for military or security purposes  
UF: Defense craft  
Naval craft  
Warships  
RT: Military oceanography  
Military operations  
Naval bases  
Protection vessels  
Security  
Surface craft  
Surveillance and enforcement  
Underwater vehicles

**Defence mechanisms**  
SN: Before 1986 search also DEFENSE MECHANISMS  
UF: Defense mechanisms

Defensive mechanisms  
Defensive secretions  
NT: Phagocytosis  
RT: Antibodies  
Bioelectricity  
Camouflage  
Cyclomorphosis  
Encystment  
Immunity  
Mimicry  
Protective behaviour  
Resistance mechanisms

Defense craft  
USE: **Defence craft**

Defense mechanisms  
USE: **Defence mechanisms**

Defensive mechanisms  
USE: **Defence mechanisms**

Defensive secretions  
USE: **Defence mechanisms**

**Deficiency diseases**  
UF: Deficiency syndromes  
BT: Diseases  
RT: Dietary deficiencies  
Nutrition disorders  
Nutritional requirements

Deficiency syndromes  
USE: **Deficiency diseases**

Definitions  
USE: **Terminology**

**Deflection**  
NT: Catenary  
Plumbline deflection

**Deflocculation**  
UF: Peptization  
RT: Dispersion  
Flocculation

**Deforestation**  
SN: Removal of trees from land without the intention of reforesting it  
RT: Forest industry  
Forests

**Deformation**  
UF: Bending  
Buckling  
Distortion  
BT: Mechanical properties  
NT: Rock deformation  
Strain

(cont'd)

## ASFA THESAURUS

### *Deformation (cont'd)*

RT: Boudinage  
Bulk modulus  
Collapse strength  
Compression  
Creep  
Elasticity  
Flexibility  
Melanges  
Pipe buckling  
Plastic flow  
Plasticity  
Rheology  
Shape  
Stress-strain relations  
Tensile strength  
Yield point

### Defrosting

USE: **Thawing**

### Degassification

USE: **Degassing**

### Degassing

UF: Degassification  
RT: Desorption  
Earth atmosphere  
Earth mantle

### Degeneration

UF: Evolutionary retrogression  
BT: Biological phenomena  
RT: Biodegradation  
Evolution  
Mutations  
Regeneration

### Deglaciation

RT: Climatic changes  
Emergent shorelines  
Glaciation  
Interglacial periods  
Transgressions

### Degradation

UF: Decomposition  
BT: Chemical reactions  
NT: Biodegradation  
Chemical degradation  
Decay  
Pyrolysis  
Thermal decomposition  
RT: Autolysis  
Deterioration  
Discolouration  
Fate  
Fouling  
Humus  
Leaching  
Oxygen depletion  
Weathering

### Dehydrated products

USE: **Dried products**

### Dehydration

BT: Chemical reactions  
RT: Desiccation  
Dewatering  
Drying  
Evaporation  
Hydration  
Separation  
Transpiration  
Water content

### Dehydrogenases

BT: Enzymes

### Deicing

SN: Preventing and removing rime and glaze from decks, superstructures, equipment, etc. For melting of ice/snow on land and frozen soil, use ICE MELTING. For thawing of frozen fishery products use THAWING. Before 1996 search also DE-ICING  
UF: De-icing  
RT: Antifreezes  
Deicing equipment  
Ice melting  
Ice prevention  
Icing  
Thawing

### Deicing equipment

UF: De-icing equipment  
BT: Equipment  
RT: Deicing  
Ice prevention  
Icing

### Delta structures

USE: **Deltaic features**

### Deltaic deposits

RT: Fluvial sedimentation  
Foreset beds

### Deltaic features

UF: Delta structures  
NT: Foreset beds  
RT: Deltas

### Deltaic sedimentation

BT: Sedimentation  
RT: Deltas  
Foreset beds  
Sedimentary environments  
SEDIMENTARY ENVIRONMENTS

### Deltas

BT: Coastal landforms  
RT: Alluvial deposits  
Brackishwater environment  
Coastal erosion  
Coasts  
Deltaic features  
Deltaic sedimentation  
Distributaries  
Flood plains  
Fluvial features  
Fluvial morphology  
Progradation  
Rivers  
Swamps  
Wetlands

### Demersal fisheries

BT: Fisheries  
RT: Bottom trawling  
Crustacean fisheries  
Finfish fisheries  
Lagoon fisheries  
Lake fisheries  
Longlining  
Marine fish  
Marine fisheries

### Demineralization

UF: Salts extraction  
BT: Separation processes  
RT: Distillation  
Ion exchange

### Denaturation (proteins)

USE: **Protein denaturation**

### Dendrites

USE: **Neurons**

### Denitrification

SN: Before 1982 search NITROGEN CYCLE  
BT: Chemical reactions  
RT: Nitrification  
Nitrogen cycle

### Dense water

BT: Sea water

### Densimeters

USE: **Densitometers**

### Densitometers

UF: Densimeters  
BT: Density measuring equipment

## ASFA THESAURUS

### Density

SN: Before 1982 search also  
**DENSITY (PHYSICAL)**  
 UF: Density (physical)  
 BT: Physical properties  
 NT: Current density  
   Sediment density  
   Water density  
 RT: Buoyancy  
   Density measurement  
   Density measuring equipment  
   Diffusion  
   Gravimetric techniques  
   Specific gravity  
   Wet weight

Density (physical)  
 USE: **Density**

Density (population)  
 USE: **Population density**

Density (stocking)  
 USE: **Stocking density**

Density (water)  
 USE: **Water density**

Density (wave action)  
 USE: **Wave action**

### Density charts

SN: Charts showing distribution of  
   water density  
 BT: Hydrographic charts  
 RT: Density sections  
   Isopycnics  
   Water density

Density currents  
 USE: **Density flow**

### Density dependence

UF: Density dependent effects  
 RT: Biological production  
   Biotic factors  
   Population density  
   Population functions  
   Stocking (organisms)  
   Stocking density

Density dependent effects  
 USE: **Density dependence**

Density dependent factor  
 USE: **Population density**

### Density field

BT: Fields  
 RT: Geostrophic flow  
   Geostrophic method  
   Water density

### Density flow

SN: Before 1982 search  
**TURBIDITY CURRENTS**  
 UF: Density currents  
   Gravity induced flow  
 BT: Fluid flow  
 RT: Bottom currents  
   Stratified flow  
   Turbidity currents  
   Water currents

### Density fronts

BT: Oceanic fronts  
 RT: Isopycnics  
   Pycnocline  
   Water density

### Density gradients

SN: Used only for density gradients  
   in water  
 BT: Gradients  
 RT: Density profiles  
   Density stratification  
   Pycnocline  
   Water density

### Density interfaces

BT: Interfaces  
 RT: Density stratification  
   Water density

### Density layer

USE: **Pycnocline**

### Density measurement

UF: Hydrometry  
   Specific gravity measurement  
 BT: Measurement  
 RT: Density  
   Density measuring equipment  
   Hydrometers  
   Water density

### Density measuring equipment

BT: Measuring devices  
 NT: Densitometers  
 RT: Density  
   Density measurement  
   Hydrometers

### Density profiles

BT: Vertical profiles  
 RT: Density gradients  
   Density sections  
   Density stratification  
   Pycnocline  
   Water density

### Density sections

BT: Hydrographic sections  
 RT: Density charts

Density profiles  
 Water density

### Density stratification

UF: Stratification (density)  
 BT: Stratification  
 RT: Buoyant jets  
   Dead water  
   Density gradients  
   Density interfaces  
   Density profiles  
   Geostrophic flow  
   Monin-Obukhov length  
   Pycnocline  
   Salinity stratification  
   Sound channels  
   Water density

Density-dependent factors  
 USE: **Biotic factors**

Density-independent factors  
 USE: **Abiotic factors**

### Denudation

SN: Combined effect of erosional  
   processes and transportation of  
   eroded material  
 RT: Erosion

### Deoxygenation

RT: Oxygen  
   Oxygen demand  
   Oxygen depletion  
   Oxygenation  
   Water quality

Deoxyribonucleic acid  
 USE: **DNA**

Dependent species  
 USE: **Associated species**

### Depleted stocks

SN: A stock (or population)  
   suffering from recruitment  
   overfishing  
 UF: Stock depletion  
 BT: Stocks  
 RT: Depletion  
   Overfishing

### Depletion

NT: Oxygen depletion  
   Resource depletion  
 RT: Abundance  
   Conservation  
   Depleted stocks  
   Reclamation

## ASFA THESAURUS

### **Deployment**

SN: Deployment of materials and equipment including underwater vehicles

RT: Gear handling  
Launching  
Recovery  
Station keeping

### **Depolymerization**

BT: Chemical reactions  
RT: Polymerization

Deposition (geology)

USE: **Sedimentation**

### **Deposition features**

RT: Alluvial fans  
Barrier islands  
Beach accretion  
Beach ridges  
Berms  
Break-point bars  
Erosion features  
Fluvial features  
Glacial features  
Nearshore bars  
Sediment drifts  
Spits

Depositional environments

USE: **Sedimentary environments**

Depressions (meteorology)

USE: **Cyclones**

### **Depressors**

NT: Cable depressors  
RT: Depth control

### **Depth**

BT: Dimensions  
NT: Mixed layer depth  
Sill depth  
Standard depths  
Water depth  
RT: Contours  
Depth control  
Depth measurement  
Height  
Hypsometric curves  
Thickness

Depth contours

USE: **Isobaths**

### **Depth control**

BT: Control  
RT: Depressors  
Depth

Depth finders

USE: **Depth recorders**

Depth finding

USE: **Echosounding**

### **Depth measurement**

SN: Measurement of depth in water only. Use of a more specific term is recommended

BT: Measurement  
NT: Bathymetry  
Echosounding  
Instrument depth measurement

RT: Depth  
Depth recorders  
Sounding lines  
Stereophotography

### **Depth recorders**

UF: Depth finders  
Precision depth recorders  
BT: Recording equipment  
RT: Bathymeters  
Bathithermographs  
Depth measurement  
Echosounders  
Oceanographic equipment  
Water depth

Depth sounding (water)

USE: **Bathymetry**

Depuration

USE: **Self purification**

Derived lipids

USE: **Lipids**

Dermal denticles

USE: **Scales**

Derricks

USE: **Cranes**

### **Desalination**

SN: Sea water conversion and water desalting

UF: Desalination processes  
Extraction (salts)  
Sea water conversion  
Seawater conversion  
Water desalting

BT: Water treatment  
RT: Desalination plants  
Dissolved salts  
Distillation  
Electrodialysis  
Evaporation  
Reverse osmosis  
Saline water  
Salinity

Salts

Sea water  
Separation  
Water purification

### **Desalination plants**

RT: Aquaculture facilities  
Desalination  
Mineral industry  
Water supply

Desalination processes

USE: **Desalination**

Descriptive physical oceanography

USE: **Hydrography**

### **Deserts**

BT: Arid environments  
RT: Sabkhas

### **Desiccation**

BT: Separation  
RT: Dehydration  
Drying  
Evaporation

### **Design**

SN: Limit to design methods  
UF: Design engineering  
NT: Ship design  
Towed body design  
RT: Engineering  
Engineering drawings  
Specifications  
Structural analysis  
Tolerances (dimensional)

Design engineering

USE: **Design**

### **Design wave**

RT: Coastal structures  
Offshore structures  
Surface water waves  
Wave climate  
Wave forces  
Wave forecasting  
Wave height  
Wave statistics

### **Desorption**

BT: Sorption  
RT: Degassing  
Surface properties

### **Destratification**

RT: Stratification  
Water mixing



## ASFA THESAURUS

### **Destructive waves**

BT: Water waves  
RT: Nearshore bars

### **Detection**

NT: Disease detection  
Fish detection  
Iceberg detection  
Pollution detection  
Sonar detection  
Wreck location  
RT: Detectors  
Echo ranging  
Identification  
Inspection  
Locating  
Surveillance and enforcement  
Tracking

### **Detectors**

BT: Equipment  
NT: Acoustic tracking systems  
RT: Alarm systems  
Detection

### **Detergents**

NT: Soaps  
RT: Chemical pollutants  
Domestic wastes  
Surfactants

### **Deterioration**

SN: Gradual decline in quality (of materials). For results of fire and accidents use DAMAGE  
RT: Corrosion  
Crack propagation  
Damage  
Defects  
Degradation  
Embrittlement  
Failures  
Fatigue (materials)  
Maintenance and repair  
Restoration  
Scouring  
Spalling  
Wear

### **Detonators**

BT: Equipment  
RT: Blasting  
Explosives

### **Detoxification**

SN: Removal of poison or poison effects  
RT: Biological poisons  
Hydrolysis  
Oxidation

Toxicants  
Toxicity  
Toxicology

### **Detrital deposits**

UF: Detrital sediments  
RT: Clastics  
Detritus  
Sediments  
Suspended particulate matter

Detrital sediments

USE: **Detrital deposits**

Detritivores

USE: **Detritus feeders**

### **Detritus**

UF: Biodeposition  
Organic detritus  
NT: Leaf litter  
RT: Biogenic material  
Biogeochemical cycle  
Detrital deposits  
Detritus feeders  
Filter feeders  
Litter  
Sapropels  
Suspended organic matter  
Suspended particulate matter  
Turbidity

### **Detritus feeders**

UF: Detritivores  
BT: Heterotrophic organisms  
RT: Detritus  
Omnivores

### **Deuterium**

SN: Before 1982 search  
HYDROGEN ISOTOPES  
BT: Hydrogen isotopes  
RT: Deuterium compounds

### **Deuterium compounds**

BT: Hydrogen compounds  
RT: Deuterium  
Heavy water

### **Developed countries**

BT: Countries  
RT: Developing countries

### **Developing countries**

UF: Developing nations  
Developing world  
Underdeveloped countries  
BT: Countries  
RT: Developed countries

Developing nations  
USE: **Developing countries**

Developing world  
USE: **Developing countries**

Development (biological)  
USE: **Biological development**

Development (products)  
USE: **Product development**

Development (resources)  
USE: **Resource development**

Development (rural)  
USE: **Rural development**

Development (urban)  
USE: **Urbanization**

Development plans  
USE: **Development projects**

### **Development potential**

RT: Development projects  
Resource availability  
Resource development

### **Development projects**

UF: Development plans  
RT: Aquaculture development  
Development potential  
Fishery development  
International cooperation  
Resource development  
Technology transfer

### **Developmental stages**

NT: Adults  
Embryos  
Juveniles  
Larvae  
RT: Biological development  
Diapause  
Emergence  
Growth  
Kelt  
Life cycle  
Metamorphosis  
Ontogeny  
Resting stages

### **Devonian**

SN: Before 1982 search  
DEVONIAN PERIOD  
BT: Palaeozoic

## ASFA THESAURUS

### Dew point

UF: Dew point temperature  
BT: Transition temperatures  
RT: Condensation  
Fog  
Humidity  
Mixing ratio  
Water vapour

Dew point temperature  
USE: **Dew point**

### Dewatering

RT: Dehydration  
Drying  
Pore water  
Water content

### Diadromy

### Diagenesis

BT: Sedimentation  
NT: Authigenesis  
Calcitization  
Cementation  
Compaction  
Consolidation  
Dolomitization  
Lithification  
RT: Bioturbation  
Calcification  
Catagenesis  
Chertification  
Gas turbation  
Metasomatism  
Sedimentology  
Silicification

### Dialysis

BT: Separation processes  
NT: Electrodialysis  
RT: Colloids  
Osmosis

### Diamonds

BT: Placers  
RT: Carbon  
Graphite  
Kimberlites

### Diapause

SN: The state of suspended development  
RT: Developmental stages  
Growth  
Photoperiodicity

### Diapirism

BT: Rock deformation  
RT: Diapirs  
Igneous intrusions  
Salt domes

### Diapirs

RT: Cap rocks  
Diapirism  
Salt domes  
Structural domes

### Diarrhetic shellfish poisoning

UF: Shellfish poisoning (diarrhetic)  
BT: Human diseases  
RT: Paralytic shellfish poisoning

### Diastrophism

NT: Crustal shortening

### Diatom culture

USE: **Phytoplankton culture**

### Diatom ooze

BT: Siliceous ooze  
RT: Diatomites  
Diatoms  
Fossil diatoms

### Diatomites

BT: Siliceous rocks  
RT: Diatom ooze  
Diatoms

### Diatoms

SN: Microscopic one-celled algae.  
Used as descriptor for ASFA-2 only; for ASFA-1, use taxonomic descriptor  
BACILLARIOPHYCEAE  
BT: Algae  
RT: Diatom ooze  
Diatomites

Dichlorodiphenyltrichloroethane  
USE: **DDT**

Dichlorodiphenylethylene  
USE: **DDE**

Dicothermal layer  
USE: **Temperature inversions**

Dictionaries  
USE: **Glossaries**

### Dieldrin

BT: Chlorinated hydrocarbons  
RT: Insecticides

### Dielectric constant

BT: Electrical properties  
RT: Capacitance  
Ice properties

### Diesel engines

BT: Motors

RT: Propulsion systems  
Shipboard equipment

Diesel fuels  
USE: **Fuels**

### Dietary deficiencies

NT: Nutrient deficiency  
Protein deficiency  
Vitamin deficiencies  
RT: Deficiency diseases  
Diets  
Feed composition  
Feeding experiments  
Nutrition disorders  
Nutritional requirements  
Nutritive value

### Dietary fibre

UF: Digestible fibre

### Diets

NT: Balanced diets  
Basic diets  
RT: Animal nutrition  
Artificial feeding  
Dietary deficiencies  
Feed efficiency  
Nutrition disorders  
Nutritional requirements  
Nutritive value

### Differential distribution

SN: Restricted to areal distribution of the life history stages of aquatic organisms  
BT: Geographical distribution  
RT: Life cycle

### Differential equations

SN: Including integral equations  
BT: Equations  
RT: Eigenfunctions  
Finite element method  
Harmonic analysis  
Integral equations  
Nonlinear equations  
Numerical analysis

Differentiation (cells)

USE: **Cell differentiation**

### Diffraction

SN: Use of a more specific term is recommended  
NT: Light diffraction  
Sound diffraction  
Wave diffraction  
RT: Wave motion  
X-ray diffraction analysis

## ASFA THESAURUS

Diffuse sky radiation  
USE: **Solar radiation**

### **Diffusion**

BT: Transport processes  
NT: Atmospheric diffusion  
Molecular diffusion  
Thermal diffusion  
Turbulent diffusion  
RT: Adsorption  
Conservation equations  
Density  
Diffusion coefficients  
Equilibrium  
Evaporation  
Ion exchange  
Ion transport  
Leaching  
Mass transfer  
Mixing processes  
Momentum  
Osmosis  
Permeability  
Separation  
Turbulence  
Water circulation  
Water mixing

Diffusion (dye patch)  
USE: **Dye dispersion**

### **Diffusion coefficients**

UF: Diffusivity  
BT: Exchange coefficients  
RT: Diffusion  
Eddy diffusivity

Diffusive convection  
USE: **Double diffusion**

Diffusivity  
USE: **Diffusion coefficients**

### **Digestibility**

BT: Organoleptic properties  
RT: Digestion

Digestible fibre  
USE: **Dietary fibre**

### **Digestion**

RT: Animal nutrition  
Digestibility  
Digestive system  
Enzymatic activity  
Excretory products  
Food absorption  
Food consumption  
Food conversion  
Hydrolysis  
Ingestion

Metabolism  
Physiology

### **Digestive glands**

BT: Digestive system  
Exocrine glands  
NT: Hepatopancreas  
Liver  
Pancreas  
RT: Alimentary organs  
Pyloric caeca

### **Digestive system**

SN: Before 1995 search also  
DIGESTIVE TRACT  
UF: Digestive tract  
Gastrointestinal system  
BT: Anatomical structures  
NT: Alimentary organs  
Digestive glands  
RT: Abdomen  
Digestion  
Oesophagus

Digestive tract  
USE: **Digestive system**

Digital data records  
USE: **Digital records**

### **Digital records**

UF: Digital data records  
BT: Records  
RT: Analog records  
Data converters

Dikes (embankments)  
USE: **Embankments**

### **Dilution**

RT: Water mixing

### **Dimensionless numbers**

NT: Mixing ratio  
RT: Froude number  
Prandtl number  
Ratios  
Reynolds number  
Rossby number

### **Dimensions**

NT: Amplitude  
Area  
Capacity  
Depth  
Height  
Length  
Size  
Thickness  
Volume  
Width  
RT: Morphometry

Shape  
Spatial variations

Dimorphism (sexual)  
USE: **Sexual dimorphism**

### **Diploids**

### **Direction**

NT: Wave direction  
Wind direction  
RT: Azimuth  
Direction finding  
Direction indicators  
Directional spectra  
Echo ranging  
Horizon

### **Direction finding**

RT: Direction  
Navigation

### **Direction indicators**

BT: Instruments  
NT: Compasses  
RT: Direction  
Vanes

### **Directional spectra**

UF: Directional wave spectra  
BT: Spectra  
RT: Direction  
Energy spectra  
Internal waves  
Long-crested waves  
Short-crested waves  
Surface water waves  
Wave direction

Directional wave spectra  
USE: **Directional spectra**

### **Directories**

BT: Documents

### **Disasters**

UF: Catastrophes  
Disasters (natural)  
Natural disasters  
RT: Accidents  
Droughts  
Earthquakes  
El Nino phenomena  
Emergencies  
Floods  
Hazards  
Hurricanes  
Storm surges  
Tsunamis  
Volcanic eruptions

## ASFA THESAURUS

Disasters (man-made)  
USE: **Accidents**

Disasters (natural)  
USE: **Disasters**

Discoloration  
USE: **Discolouration**

Discolored water  
USE: **Discoloured water**

**Discolouration**  
UF: Discoloration  
RT: Chromatic pigments  
Colour  
Degradation  
Pigments  
Staining

**Discoloured water**  
SN: Before 1982 search also RED  
TIDES  
UF: Discolored water  
BT: Water  
RT: Red tides  
Water colour

**Discontinuity layers**  
BT: Layers  
NT: Halocline  
Lysocline  
Nepheloid layer  
Pycnocline  
Scattering layers  
Thermocline  
RT: Environmental factors  
Interfaces  
Thermal stratification

**Discus-shaped buoys**  
BT: Buoy hulls

**Disease control**  
BT: Control  
RT: Aetiology  
Disease detection  
Disease resistance  
Diseases  
Epidemiology  
Pathogens  
Pest control  
Prophylaxis  
Therapy

**Disease detection**  
BT: Detection  
RT: Aetiology  
Disease control  
Diseases  
Symptoms  
Therapy

Disease preventive treatment  
USE: **Prophylaxis**

**Disease resistance**  
UF: Disease susceptibility  
Pathogen resistance  
Resistance to disease  
BT: Biological resistance  
RT: Disease control  
Diseases  
Drug resistance  
Environmental effects  
Immunity  
Vaccination

Disease susceptibility  
USE: **Disease resistance**

**Disease transmission**  
UF: Transmission of diseases  
RT: Diseases

Disease treatment  
USE: **Therapy**

**Diseases**  
UF: Disorders (biological)  
Morbidity  
NT: Animal diseases  
Deficiency diseases  
Environmental diseases  
Haematological diseases  
Human diseases  
Husbandry diseases  
Infectious diseases  
Metabolic disorders  
Nutrition disorders  
Plant diseases  
Tumours

RT: Aetiology  
Carcinogens  
Disease control  
Disease detection  
Disease resistance  
Disease transmission  
Haemorrhage  
Histopathology  
Hosts  
Hygiene  
Immunology  
Medicine  
Microbial contamination  
Mortality causes  
Natural mortality  
Necroses  
Pathogens  
Pathology  
Prophylaxis  
Sublethal effects  
Symptoms  
Therapy  
Virulence

**Disinfectants**  
UF: Antiseptics  
RT: Chemical compounds  
Chlorine  
Disinfection  
Pesticides

**Disinfection**  
RT: Chlorination  
Dechlorination  
Disinfectants  
Microbial contamination  
Pathogens  
Water purification

Disorders (biological)  
USE: **Diseases**

Disorders (human)  
USE: **Human diseases**

Dispersal phenomena  
USE: **Dispersion**

**Dispersants**  
SN: Chemicals used to contribute to the break-up of an oil spill at sea  
UF: Dispersing agents  
BT: Agents  
RT: Anticoagulants  
Dispersion  
Oil removal  
Oil spills  
Solvents  
Surfactants

Dispersing  
USE: **Dispersion**

Dispersing agents  
USE: **Dispersants**

**Dispersion**  
UF: Dispersal phenomena  
Dispersing  
Spreading  
NT: Biological drift  
Dye dispersion  
Light dispersion  
Longitudinal dispersion  
Sound dispersion  
Wave dispersion  
RT: Deflocculation  
Dispersants  
Fate  
Mixing processes  
Separation  
Water mixing

Dispersion (water waves)  
USE: **Wave dispersion**

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Dispersions (chemical)

USE: **Colloids**

### **Displacement**

SN: Weight of water displaced by vehicle; weight in water

RT: Flotation

Motion

Weight

### **Display behaviour**

BT: Behaviour

RT: Agonistic behaviour

Courtship

Disposal (waste)

USE: **Waste disposal**

### **Disputes**

UF: Conflict of interests

Conflicts

NT: Fishery disputes

RT: International law

Legal aspects

Dissipation (water waves)

USE: **Wave dissipation**

### **Dissociation**

BT: Chemical reactions

RT: Pyrolysis

### **Dissolution**

UF: Solution

BT: Separation processes

NT: Calcite dissolution

RT: Exchange capacity

Leaching

Solubility

Solutions

Solvent extraction

Solvents

Supersaturation

### **Dissolved chemicals**

UF: Dissolved mineral resources

RT: Chemical compounds

Chemical elements

Hot brines

Solubility

Solutions

### **Dissolved gases**

BT: Gases

NT: Dissolved oxygen

RT: Bubble disease

Solubility

Solutions

Water analysis

### **Dissolved inorganic carbon**

BT: Dissolved inorganic matter

Inorganic carbon

### **Dissolved inorganic matter**

BT: Inorganic matter

NT: Dissolved inorganic carbon

RT: Solutions

Dissolved mineral resources

USE: **Dissolved chemicals**

### **Dissolved organic carbon**

BT: Dissolved organic matter

Organic carbon

RT: Total organic carbon

### **Dissolved organic matter**

SN: Before 1982 search ORGANIC

SUSPENDED MATTER

BT: Organic matter

NT: Dissolved organic carbon

Dissolved organic nitrogen

Dissolved organic phosphorus

RT: Solutions

### **Dissolved organic nitrogen**

BT: Dissolved organic matter

Organic nitrogen

### **Dissolved organic phosphorus**

BT: Dissolved organic matter

Organic phosphorus

### **Dissolved oxygen**

UF: DO

Oxygen content

BT: Dissolved gases

Oxygen

RT: Abiotic factors

Aeration

Aerobic respiration

Anoxic basins

Anoxic conditions

Eutrophication

Hydrographic sections

Non-conservative properties

Oxygen minimum layer

Oxygen profiles

Water properties

Winkler method

### **Dissolved salts**

BT: Salts

RT: Brines

Chlorine compounds

Desalination

Fluorine compounds

Salinity

Salt budget

Salt fingers

Salt flux

Salt lakes

Sodium compounds

Water properties

### **Distance**

Distant water fisheries

USE: **High seas fisheries**

### **Distillation**

BT: Separation processes

RT: Demineralization

Desalination

Distilled water

### **Distilled water**

BT: Water

RT: Distillation

Distortion

USE: **Deformation**

### **Distress signals**

UF: Beacons (distress)

BT: Alarm systems

### **Distributaries**

BT: Rivers

RT: Deltas

Fluvial morphology

Tributaries

### **Distribution**

SN: Use of a narrower term is recommended

NT: Ecological distribution

Gaussian distribution

Geographical distribution

Geological distribution

Quantitative distribution

Sediment distribution

Temporal distribution

RT: Distribution records

New records

### **Distribution records**

RT: Biological charts

Distribution

Type localities

Disturbance (ecosystem)

USE: **Ecosystem disturbance**

Ditching

USE: **Trenching**

Diurnal rhythms

USE: **Circadian rhythms**

### **Diurnal thermocline**

BT: Thermocline

RT: Diurnal variations

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### Diurnal tides

UF: Lunar diurnal tides  
Solar diurnal tides  
BT: Tides

### Diurnal variations

UF: Daily variation  
BT: Periodic variations  
RT: Circadian rhythms  
Daily  
Daytime  
Diurnal thermocline  
Nighttime  
Nyctimeral rhythms  
Photoperiodicity  
Photoperiods  
Vertical distribution  
Vertical migrations

### Divergence

NT: Plate divergence  
RT: Convergence  
Divergence zones  
Horizontal motion  
Langmuir circulation  
Upwelling

### Divergence zones

NT: Oceanic divergences  
RT: Convergence zones  
Divergence  
Upwelling  
Water masses

Divergent margins

USE: **Passive margins**

### Diverging plate boundaries

UF: Accreting plate boundaries  
BT: Plate boundaries  
RT: Converging plate boundaries  
Crustal accretion  
Mantle plumes  
Mid-ocean ridges  
Plate divergence  
Rift zones  
Spreading centres

### Divers

RT: Diving  
Diving equipment  
Diving industry  
Diving physiology

Divers physiology

USE: **Diving physiology**

Divers safety

USE: **Diving regulations**

Divers work

USE: **Working underwater**

Diversity index

USE: **Species diversity**

### Diving

NT: Deep-sea diving  
Saturation diving  
Scuba diving  
RT: Divers  
Diving accidents  
Diving bells  
Diving equipment  
Diving hazards  
Diving physiology  
Diving regulations  
Diving suits  
Fishing by diving  
Search and rescue  
Spear fishing  
Surveying underwater  
Underwater exploration  
Underwater medicine  
Visibility underwater  
Working underwater

### Diving accidents

BT: Accidents  
RT: Diving  
Diving hazards  
Diving regulations  
Drowning  
Marine accidents  
Mortality causes

### Diving bells

BT: Manned vehicles  
RT: Decompression chambers  
Diving  
One-atmosphere systems  
Saturation diving  
Submersibles  
Support ships  
Tethered vehicles  
Underwater habitats  
Working underwater

Diving chambers

USE: **Manned vehicles**

### Diving equipment

UF: Diving gear  
Diving systems  
BT: Equipment  
NT: Decompression chambers  
Diving suits  
Diving tools  
RT: Breathing apparatus  
Communication systems  
Compressors  
Decompression tables  
Divers  
Diving  
Diving industry  
Life support systems

Protective clothing

Submersibles

Support ships

Surveying equipment

Diving gear

USE: **Diving equipment**

### Diving hazards

BT: Hazards  
NT: Shark attacks  
RT: Dangerous organisms  
Diving  
Diving accidents  
Drowning  
Hyperthermia

### Diving industry

BT: Industries  
RT: Divers  
Diving equipment  
Working underwater

Diving medicine

USE: **Underwater medicine**

### Diving physiology

SN: All physiological and medical aspects of diving in man, mammals, and other animals, including experimental laboratory studies  
UF: Divers physiology  
BT: Physiology  
RT: Animal physiology  
Bone necrosis  
Decompression sickness  
Divers  
Diving  
Human physiology  
Hyperthermia  
Hypothermia  
Pressure effects  
Underwater medicine  
Working underwater

### Diving regulations

UF: Divers safety  
BT: Safety regulations  
RT: Diving  
Diving accidents

### Diving suits

SN: Use for one-man equipment with articulated limbs  
BT: Diving equipment  
RT: Manipulators  
One-atmosphere systems  
Saturation diving  
Submersibles  
Umbilicals

## ASFA THESAURUS

### Diving surveys

BT: Surveys  
RT: Surveying underwater  
Underwater exploration

### Diving systems

USE: **Diving equipment**

### Diving tools

SN: Pertains to tools operated by divers  
UF: Tools (underwater)  
Underwater tools  
BT: Diving equipment  
RT: Underwater equipment  
Working underwater

### Diving vehicles

USE: **Manned vehicles**

### DNA

SN: Before 1982 search  
DEOXYRIBONUCLEIC ACID  
UF: Deoxyribonucleic acid  
BT: Nucleic acids  
RT: Chemotaxonomy  
Genes  
Polymerization

### DO

USE: **Dissolved oxygen**

### Docking

USE: **Berthing**

### Docks

USE: **Port installations**

### Documentation

RT: Bibliographic information  
Data collections  
Documents

### Documentation services

USE: **Information services**

### Documents

SN: Before 1982 search also  
PUBLICATIONS  
UF: Correspondence (letters)  
Manuscripts (historical)  
Publications  
NT: Atlases  
Bibliographies  
Biographies  
Catalogues  
Collected papers  
Directories  
Encyclopaedias  
Expedition reports  
Gazetteers  
Glossaries

### Logbooks

Manuals  
Tables  
Thesaurus  
RT: Abstracts  
Audiovisual materials  
Documentation  
Literature reviews  
Microforms  
Obituaries  
Patents  
Publicity material  
Report literature  
Synopsis  
Transcription  
Translations

### Doldrums

USE: **Equatorial trough**

### Dolomite

SN: Use only for mineral dolomite  
BT: Carbonate minerals  
RT: Dolostone  
Evaporites

### Dolomite (rock)

USE: **Dolostone**

### Dolomitization

BT: Diagenesis  
RT: Calcitization  
Calcium carbonates  
Dolostone  
Limestone

### Dolostone

UF: Dolomite (rock)  
BT: Carbonate rocks  
RT: Dolomite  
Dolomitization

### Domes

BT: Anticlines  
RT: Salt domes

### Domestic species

SN: Species kept by man from the wild  
UF: Domesticated species  
BT: Species  
RT: Cultured organisms  
Domestication  
Introduced species  
Selective breeding

### Domestic wastes

BT: Wastes  
RT: Detergents  
Organic wastes  
Sewage  
Soaps

### Domesticated species

USE: **Domestic species**

### Domestication

RT: Captivity  
Domestic species

### Dominance hierarchies

SN: Before 1982 search SOCIAL BEHAVIOUR  
UF: Hierarchies (social)  
Social hierarchy  
NT: Pecking order  
RT: Competition  
Social behaviour  
Territoriality

### Dominant species

BT: Species  
RT: Climax community  
Community composition  
Ecological associations  
Ecological succession  
Multispecies fisheries  
Species diversity

### Doppler effect

UF: Doppler shift  
RT: Doppler navigation  
Doppler sonar

### Doppler navigation

UF: Doppler sonar navigation  
BT: Acoustic navigation  
RT: Doppler effect

### Doppler shift

USE: **Doppler effect**

### Doppler sonar

UF: Acoustic doppler sonar  
BT: Active sonar  
RT: Doppler effect

### Doppler sonar navigation

USE: **Doppler navigation**

### Dormancy

RT: Aestivation  
Hibernation  
Metabolism  
Resting stages  
Thermoregulation

### Dormant stages

USE: **Cysts**

### Double diffusion

UF: Diffusive convection  
Double diffusive convection  
Salt finger convection

(cont'd)

## ASFA THESAURUS

### *Double diffusion (cont'd)*

Salt fingering

BT: Molecular diffusion

RT: Double diffusive instability

Microstructure

Salinity gradients

Salt fingers

Temperature gradients

Vertical mixing

### Double diffusive convection

USE: **Double diffusion**

### Double diffusive instability

BT: Instability

RT: Double diffusion

Trans-isopycnal mixing

### Double kelvin waves

USE: **Kelvin waves**

### Douglas scale

USE: **Sea state scales**

### Downstream migrations

USE: **Catadromous migrations**

### Downward irradiance

BT: Irradiance

### Downward long wave radiation

UF: Atmospheric radiation

BT: Terrestrial radiation

### Downwelling

BT: Vertical water movement

RT: Convergence

Mixing processes

Oceanic convergences

Upwelling

Water mixing

### Drag

NT: Form drag

RT: Bottom stress

Drag coefficient

Friction

Wind stress

Wind wave generation

### Drag coefficient

RT: Bed roughness

Drag

Kinetic energy

Reynolds number

Surface roughness

Wind stress

Wind wave generation

### Dragging nets

USE: **Bottom trawls**

### Drainage basins

USE: **River basins**

### Drainage water

SN: Drainage water of artificial or natural origin

BT: Water

NT: Runoff

RT: Sewage

Waste water

Water table

Watersheds

### Drawings

USE: **Illustrations**

### Dredge spoil

BT: Wastes

RT: Dredgers

Dredging

Spoil

### Dredged samples

BT: Sediment samples

RT: Dredges (geology)

### Dredgers

UF: Dredging vessels

BT: Surface craft

RT: Channels

Dredge spoil

Dredges

Dredging

Work platforms

### Dredges

SN: Refers to fishing dredges only.

For sediment dredges use

DREDGES (GEOLOGY)

UF: Boat dredges

Dredges (fishing)

Hand dredges

BT: Fishing gear

RT: Boats

Dredgers

### Dredges (fishing)

USE: **Dredges**

### Dredges (geology)

BT: Sediment samplers

RT: Dredged samples

Seafloor sampling

### Dredging

UF: Dredging (excavation)

RT: Dredge spoil

Dredgers

Excavation underwater

Trenching

### Dredging (catching methods)

USE: **Bottom trawling**

### Dredging (excavation)

USE: **Dredging**

### Dredging vessels

USE: **Dredgers**

### Dressing

SN: Removal of scales, head and tail from fish

UF: Fish dressing

BT: Fish handling

NT: Gutting

RT: Curing

### Dried fish

USE: **Dried products**

### Dried products

UF: Dehydrated products

Dried fish

Sun dried products

BT: Processed fishery products

NT: Freeze-dried products

RT: Cured products

Drying

### Dried salted products

USE: **Cured products**

### Drift

NT: Ice drift

Ship drift

RT: Anchoring

Continental drift

Drifters

Motion

### Drift (biological)

USE: **Biological drift**

### Drift (continental)

USE: **Continental drift**

### Drift (genetic)

USE: **Genetic drift**

### Drift (ice)

USE: **Ice drift**

### Drift (sediments)

USE: **Glacial deposits**

### Drift (ships)

USE: **Ship drift**



## ASFA THESAURUS

### **Drift bottles**

SN: Before 1982 search DRIFTERS  
 UF: Bottle post  
 BT: Surface drifters  
 RT: Drift cards

Drift buoys

USE: **Drifting data buoys**

### **Drift cards**

SN: Before 1982 search DRIFTERS  
 BT: Surface drifters  
 RT: Drift bottles

Drift currents

USE: **Wind-driven currents**

Drift lines

USE: **Lines**

Drift nets

USE: **Gillnets**

### **Drifters**

UF: Floats (current measurement)  
 Lagrangian drifters  
 BT: Current measuring equipment  
 NT: Subsurface drifters  
 Surface drifters  
 RT: Drift

Drifting buoys

USE: **Drifting data buoys**

### **Drifting data buoys**

SN: Before 1985 search also DRIFT  
 BUOYS  
 UF: Drift buoys  
 Drifting buoys  
 Expendable drifting buoys  
 Lagrangian drifting buoys  
 Satellite-tracked buoys  
 BT: Data buoys  
 Surface drifters  
 RT: Drifting stations

### **Drifting stations**

BT: Oceanographic stations  
 RT: Drifting data buoys  
 Ice islands

Drill bits

USE: **Drills**

Drill holes

USE: **Boreholes**

### **Drill pipe**

RT: Drill string  
 Drilling equipment  
 Drilling fluids

Drilling rigs

Drills

Drill stem

USE: **Drill string**

### **Drill string**

UF: Drill stem  
 RT: Drill pipe  
 Drilling equipment  
 Drills  
 Heave compensators

### **Drilling**

SN: Before 1986 search also  
 OFFSHORE DRILLING  
 UF: Boring  
 Offshore drilling  
 NT: Deep-sea drilling  
 RT: Boreholes  
 Coring  
 Drilling equipment  
 Drilling platforms  
 Heave compensators  
 Oil and gas exploration  
 Oil wells  
 Production platforms  
 Seafloor sampling  
 Templates  
 Underwater exploration

Drilling devices

USE: **Drilling equipment**

### **Drilling equipment**

SN: Before 1982 search DRILLING  
 DEVICES  
 UF: Drilling devices  
 BT: Equipment  
 NT: Drilling rigs  
 RT: Corers  
 Drill pipe  
 Drill string  
 Drilling  
 Drilling fluids  
 Drilling platforms  
 Production platforms

### **Drilling fluids**

UF: Drilling muds  
 Muds (drilling)  
 Sludge (drilling fluids)  
 BT: Fluids  
 RT: Drill pipe  
 Drilling equipment

Drilling muds

USE: **Drilling fluids**

### **Drilling platforms**

SN: Use with type of offshore  
 structures

BT: Work platforms

RT: Drilling

Drilling equipment

Drilling rigs

Drilling vessels

Production platforms

### **Drilling rigs**

UF: Oil rigs  
 Rigs  
 BT: Drilling equipment  
 RT: Drill pipe  
 Drilling platforms  
 Production platforms

Drilling ships

USE: **Drilling vessels**

### **Drilling vessels**

UF: Drilling ships  
 RT: Deep-sea drilling  
 Drilling platforms  
 Production platforms  
 Surface craft  
 Work platforms

### **Drills**

UF: Drill bits  
 BT: Sediment samplers  
 RT: Drill pipe  
 Drill string

### **Drogues**

BT: Surface drifters  
 RT: Anchors  
 Buoys  
 Current measuring equipment  
 Lagrangian current measurement

### **Droplets**

UF: Drops  
 Rain drops  
 BT: Hydrometeors  
 RT: Bubble bursting  
 Capillarity  
 Spray

Drops

USE: **Droplets**

### **Dropsonde**

BT: Profilers  
 RT: Velocity profilers

Dropwindsondes

USE: **Radiosondes**

### **Drought resistance**

BT: Biological resistance  
 RT: Droughts  
 Environmental effects  
 Temporary ponds

## ASFA THESAURUS

### **Droughts**

UF: Drouths  
BT: Weather hazards  
RT: Arid environments  
Disasters  
Drought resistance  
Dry season  
Rain  
Rainfall  
Temporary ponds  
Water levels  
Water resources

Drouths

USE: **Droughts**

### **Drowned valleys**

UF: Rias  
BT: Coastal inlets  
Valleys  
RT: Coastal landforms  
Fjords  
Submarine valleys  
Submerged shorelines

### **Drowning**

BT: Marine accidents  
RT: Bathing  
Diving accidents  
Diving hazards  
Mortality causes

### **Drug resistance**

UF: Resistance to drugs  
BT: Biological resistance  
RT: Control resistance  
Disease resistance  
Drugs

Drug toxicology

USE: **Toxicology**

### **Drugs**

UF: Pharmaceutical products  
NT: Anaesthetics  
Antibiotics  
Aquatic drugs  
Narcotics  
Vaccines  
RT: Alkaloids  
Antitumour agents  
Antiviral agents  
Coagulants  
Drug resistance  
Hormones  
Inhibitors  
Medicine  
Pharmacology  
Steroids  
Therapy  
Vitamins

Dry bulb temperature

USE: **Air temperature**

Dry diving

USE: **Deep-sea diving**

### **Dry season**

BT: Seasons  
RT: Droughts  
Rainy season  
Tropical environment  
Tropical lakes

### **Dry weight**

BT: Weight  
RT: Drying

### **Drying**

UF: Drying of fish  
Fish drying  
BT: Processing fishery products  
NT: Freeze-drying  
RT: Adsorption  
Curing  
Dehydration  
Desiccation  
Dewatering  
Dried products  
Dry weight  
Evaporation  
Separation  
Water content

Drying of fish

USE: **Drying**

Ductless glands

USE: **Endocrine glands**

Dumping

USE: **Ocean dumping**

Dumping grounds

USE: **Waste disposal sites**

### **Dune stabilization**

RT: Beach erosion  
Coastal zone management  
Dunes  
Erosion control  
Vegetation cover

### **Dunes**

UF: Coastal dunes  
Sand dunes (subaerial)  
BT: Beach features  
RT: Beaches  
Bed forms  
Coasts  
Dune stabilization  
Sand  
Sand waves

Dung

USE: **Manure**

Dungeness crab fisheries

USE: **Crab fisheries**

Durability

USE: **Toughness**

### **Duration**

RT: Wave parameters  
Wind wave generation  
Wind wave parameters

### **Dust**

NT: Cosmic dust  
Eolian dust  
RT: Air pollution  
Atmospheric particulates  
Dust clouds  
Haze  
Radioactive contamination

Dust (atmospheric)

USE: **Atmospheric particulates**

Dust (cosmic)

USE: **Cosmic dust**

Dust (volcanic)

USE: **Volcanic ash**

### **Dust clouds**

UF: Dust falls  
Dust storms  
RT: Dust  
Eolian transport  
Haze  
Volcanic ash

Dust falls

USE: **Dust clouds**

Dust storms

USE: **Dust clouds**

### **Dye dispersion**

UF: Diffusion (dye patch)  
BT: Dispersion  
RT: Dyes  
Oceanic turbulence  
Turbulent diffusion

### **Dyes**

BT: Tracers  
NT: Rhodamine B-dye  
RT: Dye dispersion  
Pigments  
Staining

### **Dynamic analysis**

BT: Analysis

## ASFA THESAURUS

### **Dynamic height**

UF: Geopotential  
 BT: Potential energy  
 RT: Dynamic height anomaly  
   Dynamic topography  
   Height  
   Stream functions

### **Dynamic height anomaly**

UF: Geopotential anomaly  
 BT: Anomalies  
 RT: Dynamic height  
   Isobaric surfaces  
   Specific volume anomalies

Dynamic instability

USE: **Instability**

### **Dynamic loads**

BT: Loads (forces)  
 RT: Cyclic loading  
   Structural dynamics

### **Dynamic positioning**

BT: Positioning systems  
 RT: Acoustic beacons  
   Locating  
   Navigation  
   Thrusters

### **Dynamic response**

BT: Instrument responses  
 NT: Heave response  
   Pitch response  
   Roll response  
   Surge response  
   Yaw response  
 RT: Frequency

### **Dynamic topography**

UF: Geopotential topography  
 BT: Topography  
 RT: Dynamic height  
   Geostrophic flow  
   Geostrophic method  
   Isobaric surfaces  
   Streamlines  
   Surface slope  
   Surface topography

### **Dynamic viscosity**

BT: Viscosity  
 RT: Eddy viscosity  
   Momentum transfer  
   Shear  
   Shear flow  
   Shear stress

### **Dynamical oceanography**

BT: Oceanography  
 RT: Equatorial dynamics  
   Estuarine dynamics

Fluid mechanics  
 Fluid motion  
 Hydrodynamic equations  
 Marine geodesy  
 Nearshore dynamics  
 Ocean currents  
 Ocean-atmosphere system  
 Seiches  
 Shelf dynamics  
 Tides

### **Dynamics**

BT: Mechanics  
 NT: Cable dynamics  
   Fluid dynamics  
   Hydrodynamics  
   Sediment dynamics  
   Structural dynamics

### **Dysprosium**

BT: Lanthanides

### **Dystrophic lakes**

UF: Dystrophic waters  
 BT: Lakes  
 RT: Eutrophic lakes  
   Humic acids  
   Oligotrophic lakes  
   Stagnant water

Dystrophic waters

USE: **Dystrophic lakes**

Eagre

USE: **Tidal bores**

Ears

USE: **Auditory organs**

### **Earth**

RT: Earth atmosphere  
   Earth curvature  
   Earth history  
   Earth orbit  
   Earth rotation  
   Earth sciences  
   Earth structure  
   Earth tides  
   Earth tilt  
   Geoid

Earth (soil)

USE: **Soils**

Earth age

USE: **Age**

### **Earth atmosphere**

SN: Before 1982 search also  
   ATMOSPHERE (EARTH)  
 UF: Atmosphere (earth)  
   Terrestrial atmosphere

BT: Planetary atmospheres

NT: Stratosphere

  Tropopause

  Troposphere

  Upper atmosphere

RT: Air

  Atmospheric chemistry

  Atmospheric motion

  Atmospheric physics

  Atmospheric pressure

  Degassing

  Earth

  Greenhouse effect

  Heat budget

  Hygrometry

  Meteorology

  Ocean-atmosphere system

  Ozone

### **Earth core**

UF: Core (earth)

BT: Earth structure

RT: Earth mantle

### **Earth crust**

UF: Crust (earth)

BT: Earth structure

NT: Continental crust

  Oceanic crust

  Sial

  Sima

RT: Basement rock

  Crustal shortening

  Crustal structure

  Crustal thickness

  Earth mantle

  Epeirogeny

  Isostasy

  Lithosphere

  Tectonophysics

Earth currents

USE: **Telluric currents**

### **Earth curvature**

RT: Earth

### **Earth history**

RT: Atmosphere evolution  
   Earth

Earth magnetic field

USE: **Geomagnetic field**

Earth magnetism

USE: **Geomagnetism**

### **Earth mantle**

SN: Before 1986 search also

  MANTLE

UF: Mantle (earth)

(cont'd)

## ASFA THESAURUS

### *Earth mantle (cont'd)*

BT: Earth structure  
 NT: Lower mantle  
   Upper mantle  
 RT: Continental drift  
   Degassing  
   Earth core  
   Earth crust  
   Mantle convection  
   Mantle plumes  
   Moho

Earth measurement  
 USE: **Geodesy**

### **Earth orbit**

RT: Astronomy  
   Earth

Earth remote sensing  
 USE: **Geosensing**

### **Earth rotation**

BT: Rotation  
 RT: Chandler wobble  
   Climatic changes  
   Earth  
   Polar wandering  
   Tidal friction

### **Earth sciences**

NT: Atmospheric sciences  
   Geology  
   Geophysics  
   Oceanography  
 RT: Aquatic sciences  
   Earth

### **Earth structure**

NT: Aseismic zones  
   Asthenosphere  
   Basement rock  
   Benioff zone  
   Earth core  
   Earth crust  
   Earth mantle  
   Lithosphere  
   Plates  
   Seismic layers  
   Seismic zones  
 RT: Continents  
   Earth  
   Moho

### **Earth tides**

UF: Tides (earth)  
 BT: Tidal motion  
 RT: Atmospheric tides  
   Earth  
   Geodesy  
   Ocean loading

Tides  
 Tiltmeters

### **Earth tilt**

RT: Earth

Earth waves  
 USE: **Seismic waves**

### **Earthquake loading**

BT: Loads (forces)  
 RT: Earthquakes  
   Ground motion  
   Seismic activity

### **Earthquake prediction**

BT: Prediction  
 RT: Earthquakes  
   Warning services

Earthquake waves  
 USE: **Seismic waves**

### **Earthquakes**

UF: Seismic events  
 BT: Geological hazards  
 NT: Microearthquakes  
 RT: Active margins  
   Disasters  
   Earthquake loading  
   Earthquake prediction  
   Epicentres  
   Ground motion  
   Seaquakes  
   Seismic activity  
   Seismology  
   Slumping  
   Tsunami generation  
   Tsunamis

### **Easterly waves**

RT: Equatorial easterlies  
   Equatorial trough  
   Tropical depressions  
   Tropical meteorology

### **Eastern boundary currents**

BT: Boundary currents  
 RT: Coastal upwelling  
   Ekman transport  
   Tidal cycles

### **Ebb currents**

BT: Tidal currents  
 RT: Low tide  
   Tidal cycles

Ecdysis  
 USE: **Moulting**

Ecdysores  
 USE: **Ecdysores**

### **Ecdysores**

SN: Before 1982 search  
 HORMONES  
 UF: Ecdysores  
   Moulting hormones  
 BT: Hormones  
 RT: Moulting

### **Echinoderm fisheries**

UF: Sea cucumber fisheries  
   Sea urchin fisheries  
 BT: Shellfish fisheries  
 RT: Coastal fisheries  
   Marine fisheries

Echo counting systems  
 USE: **Fish counters**

Echo integration  
 USE: **Echo integrators**

### **Echo integrators**

UF: Echo integration  
 RT: Acoustic equipment  
   Echoes  
   Fish counters  
   Sonar detection

### **Echo ranging**

UF: Acoustic direction finding  
   Acoustic distance measurement  
   Sound ranging  
 RT: Acoustic tracking systems  
   Active sonar  
   Detection  
   Direction  
   Echoes  
   Echolocation  
   Sonar detection

### **Echo surveys**

UF: Acoustic surveys  
 BT: Surveys  
 RT: Echoes  
   Echosounders  
   Echosounding  
   Fish sizing  
   Fishery surveys  
   Tracking

### **Echoes**

RT: Acoustics  
   Echo integrators  
   Echo ranging  
   Echo surveys  
   Echolocation  
   Echosounder profiles  
   Echosounders  
   Echosounding

## ASFA THESAURUS

### Echolocation

RT: Auditory organs  
Behaviour  
Echo ranging  
Echoes  
Sonar detection  
Sound production

### Echosounder profiles

BT: Analog records  
RT: Bathymetric profiles  
Echoes  
Geological sections  
Vertical sections

### Echosounders

UF: Precision echosounders  
BT: Acoustic equipment  
RT: Active sonar  
Depth recorders  
Echo surveys  
Echoes  
Echosounding  
Sound recorders  
Wave measuring equipment

### Echosounding

SN: For detection of organisms and abundance estimation, depth and bottom structure  
UF: Depth finding  
BT: Depth measurement  
RT: Bathymetry  
Bottom topography  
Echo surveys  
Echoes  
Echosounders  
Remote sensing  
Scattering layers  
Seafloor mapping  
Sound waves  
Soundings  
Sub-bottom profiling

### Eclipse (solar)

USE: **Solar eclipse**

### Ecoclines

BT: Clines  
RT: Ecological distribution  
Ecological zonation

### Ecological aggregations

UF: Aggregations (ecological)  
RT: Environmental effects  
Social behaviour

### Ecological associations

SN: A characteristic association of animals and/or plants belonging to a particular habitat. Before 1982 search ASSOCIATIONS

### (ECOLOGICAL)

UF: Animal associations  
Associations (animal)  
Associations (ecological)  
Organism associations  
RT: Aquatic communities  
Biocoenosis  
Biotopes  
Climax community  
Cohorts  
Colonies  
Dominant species  
Ecological succession  
Habitat  
Synecology

### Ecological balance

SN: The state of dynamic equilibrium of a biotic community or ecosystem  
UF: Balance (ecological)  
Balance of nature  
Biological balance  
Biological equilibrium  
Ecosystem stability  
Stability (ecological)  
RT: Ecological crisis  
Ecology  
Ecosystem management  
Ecosystems

### Ecological balance disruption

USE: **Ecological crisis**

### Ecological baseline studies

USE: **Baseline studies**

### Ecological crisis

UF: Ecological balance disruption  
RT: Ecological balance  
Ecology  
Environmental effects  
Pollution

### Ecological distribution

BT: Distribution  
RT: Biogeography  
Biological rhythms  
Ecoclines  
Ecological zonation  
Ecology  
Ecosystems  
Endemic species  
Environmental effects  
Geographical distribution  
Limiting factors  
Migrations  
Relict species

### Ecological diversity

USE: **Species diversity**

### Ecological efficiency

SN: Ratio of production to food ingestion  
UF: Efficiency (ecological)  
RT: Energy budget  
Food consumption  
Nutritional requirements

### Ecological niches

USE: **Niches**

### Ecological physiology

USE: **Ecophysiology**

### Ecological sciences

USE: **Ecology**

### Ecological succession

SN: Before 1982 search  
SUCCESSION (ECOLOGICAL)  
UF: Succession (ecological)  
RT: Aquatic communities  
Climax community  
Community composition  
Dominant species  
Ecological associations  
Habitat  
Multispecies fisheries  
Species diversity

### Ecological zonation

UF: Intertidal zonation  
Littoral zonation  
Zonation (ecological)  
RT: Benthos  
Ecoclines  
Ecological distribution  
Intertidal environment  
Littoral zone  
Sheltered habitats  
Substrata  
Tides  
Vertical distribution

### Ecologists

BT: Scientific personnel  
NT: Freshwater ecologists  
Marine ecologists  
RT: Ecology

### Ecology

UF: Aquatic ecology  
Bionomics  
Ecological sciences  
NT: Autecology  
Brackishwater ecology  
Ethology  
Freshwater ecology  
Genecology  
Marine ecology  
Palaeoecology

(cont'd)

## ASFA THESAURUS

### *Ecology (cont'd)*

- Parasitology
- Phytosociology
- Planktonology
- Radioecology
- Synecology
- RT: Biofacies
- Biogeography
- Biology
- Ecological balance
- Ecological crisis
- Ecological distribution
- Ecologists
- Ecophysiology
- Ecosystems
- Ecotoxicology
- Environmental conditions
- Phenology
- Photoperiodicity
- Species

Econometric models  
USE: **Economic models**

### **Econometrics**

SN: Statistical analysis of economic data with the aid of electronic computers  
BT: Economics  
RT: Economic analysis  
Linear programming

### **Economic analysis**

UF: Economic evaluations  
BT: Analysis  
RT: Cost analysis  
Econometrics  
Economic benefits  
Economic models  
Statistical analysis

### **Economic benefits**

RT: Economic analysis  
Economic feasibility

Economic evaluations  
USE: **Economic analysis**

### **Economic feasibility**

SN: Before 1982 search  
FEASIBILITY  
BT: Feasibility  
RT: Cost analysis  
Economic benefits

### **Economic models**

UF: Econometric models  
BT: Mathematical models  
RT: Economic analysis  
Economics

Economic resources

USE: **Resources**

Economic species

USE: **Commercial species**

### **Economics**

NT: Econometrics  
Fishery economics  
RT: Commerce  
Economic models  
Trade

### **Ecophene**

SN: A type of individual developing as a result of a physiological, as opposed to genetic, response to habitat factors  
RT: Ecophysiology  
Phenotypes

### **Ecophysiology**

UF: Ecological physiology  
Physiological ecology  
BT: Physiology  
RT: Aestivation  
Biological resistance  
Ecology  
Ecophene  
Environmental effects  
Photoperiods  
Survival  
Tolerance

### **Ecosystem disturbance**

UF: Disturbance (ecosystem)  
RT: Ecosystems

Ecosystem diversity

USE: **Biodiversity**

### **Ecosystem management**

SN: Management of aquatic ecosystems  
BT: Management  
NT: Coastal zone management  
River basin management  
RT: Ecological balance  
Ecosystems  
Environment management

### **Ecosystem resilience**

UF: Resilience (ecosystem)  
RT: Colonization  
Ecosystems

Ecosystem stability

USE: **Ecological balance**

### **Ecosystems**

RT: Aquatic communities  
Aquatic environment

Bioenergetics

Biological production  
Ecological balance  
Ecological distribution  
Ecology  
Ecosystem disturbance  
Ecosystem management  
Ecosystem resilience  
Food webs  
Niches  
Trophic levels  
Trophic structure

### **Ecotoxicology**

BT: Toxicology  
RT: Ecology

### **Ecotypes**

SN: A biotype resulting from selection in a particular habitat  
UF: Habitat types  
RT: Adaptations  
Biological speciation  
Habitat  
Typology

### **Ectocrines**

RT: Hormones  
Metabolites

Ectoderm

USE: **Skin**

### **Ectoparasites**

BT: Parasites  
RT: Ectoparasitism  
Epizootics  
Lamprey attachment

### **Ectoparasitism**

BT: Parasitism  
RT: Ectoparasites

Ectosymbionts

USE: **Symbionts**

Eddies (lee)

USE: **Lee eddies**

Eddies (oceanic)

USE: **Oceanic eddies**

### **Eddy coefficients**

USE: Exchange coefficients

### **Eddy conduction**

UF: Eddy heat conduction  
Eddy heat flux  
Turbulent heat transfer  
BT: Heat transfer

(cont'd)

## ASFA THESAURUS

*Eddy conduction (cont'd)*

RT: Eddy conductivity  
Heat conduction  
Turbulent diffusion

Eddy conduction coefficient

USE: **Eddy conductivity**

**Eddy conductivity**

UF: Eddy conduction coefficient  
BT: Eddy diffusivity  
RT: Eddy conduction  
Thermal conductivity  
Turbulence

Eddy diffusion

USE: **Turbulent diffusion**

Eddy diffusion coefficient

USE: **Eddy diffusivity**

**Eddy diffusivity**

UF: Eddy diffusion coefficient  
NT: Eddy conductivity  
RT: Diffusion coefficients  
Thermal diffusivity  
Turbulence  
Turbulent diffusion

**Eddy flux**

UF: Turbulent exchange  
RT: Exchange coefficients  
Mixing length

Eddy heat conduction

USE: **Eddy conduction**

Eddy heat flux

USE: **Eddy conduction**

**Eddy kinetic energy**

UF: Turbulent energy  
BT: Kinetic energy  
RT: Mesoscale eddies

Eddy stresses

USE: **Reynolds stresses**

**Eddy viscosity**

UF: Kinematic eddy viscosity  
BT: Viscosity  
RT: Dynamic viscosity  
Eddy viscosity coefficient  
Mixing length  
Momentum transfer  
Reynolds stresses  
Turbulence  
Turbulent diffusion  
Turbulent flow

**Eddy viscosity coefficient**

UF: Coefficient of eddy viscosity

BT: Viscosity coefficients

RT: Eddy viscosity

**Edge waves**

BT: Trapped waves  
RT: Beach cusps  
Rip currents  
Tsunamis  
Waves on beaches

Edible crab fisheries

USE: **Crab fisheries**

Edible fish

USE: **Food fish**

**Education**

UF: Teaching  
RT: Curricula  
Education establishments  
Fellowships  
Training

**Education establishments**

UF: Schools  
Universities  
BT: Organizations  
RT: Education  
Research institutions  
Training centres

EEZ

USE: **Exclusive economic zone**

Efferent nerves

USE: **Nerves**

**Efficiency**

RT: Calibration  
Performance assessment

Efficiency (ecological)

USE: **Ecological efficiency**

**Effluents**

BT: Wastes  
NT: Aquaculture effluents  
RT: Influent  
Outfalls  
Sewage  
Waste water  
Wastewater treatment

Effluents (aquaculture)

USE: **Aquaculture effluents**

**Egg counters**

BT: Counters  
RT: Eggs

**Eggs**

UF: Ova

BT: Sexual cells

NT: Bird eggs

Brine shrimp eggs

Fish eggs

Insect eggs

Oocytes

Resting eggs

RT: Egg counters

Embryology

Embryonic development

Embryos

Fecundity

Hatching

Incubation

Oogenesis

Oviparity

Oviposition

Ovoviviparity

Ovulation

Vitellogenesis

Yolk

EH

USE: **Redox potential**

**Eigenfunctions**

SN: Solutions of differential equations satisfying specific conditions

RT: Differential equations

Mathematics

Ekman boundary layers

USE: **Ekman layers**

Ekman circulation

USE: **Ekman transport**

Ekman current

USE: **Ekman transport**

**Ekman layers**

UF: Ekman boundary layers

BT: Boundary layers

NT: Bottom Ekman layer

Surface Ekman layer

RT: Ekman spiral

Vertical shear

**Ekman pumping**

UF: Ekman suction

RT: Upwelling

**Ekman spiral**

BT: Hodographs

RT: Coriolis parameters

Ekman layers

Wind-driven currents

Ekman suction

USE: **Ekman pumping**

## ASFA THESAURUS

### **Ekman transport**

UF: Ekman circulation  
Ekman current  
BT: Transport  
Upwelling  
RT: Eastern boundary currents  
El Nino phenomena

### **El Nino phenomena**

RT: Coastal upwelling  
Disasters  
Ekman transport  
Southern oscillation  
Teleconnections

### **Elastic constants**

BT: Constants  
NT: Bulk modulus  
Shear modulus  
RT: Elasticity  
Poisson's ratio  
Soil mechanics

### **Elastic waves**

UF: Pressure waves  
Waves (elastic)  
NT: Seismic waves  
Sound waves  
RT: Vibration

### **Elasticity**

UF: Anelasticity  
BT: Mechanical properties  
RT: Bulk modulus  
Compressibility  
Deformation  
Elastic constants  
Flexibility  
Plasticity  
Poisson's ratio  
Rock mechanics  
Shear modulus  
Soil mechanics  
Strain  
Stress (mechanics)  
Tensile strength

### **Electric arc welding**

BT: Welding  
RT: Electrodes

Electric batteries

USE: **Batteries**

### **Electric cables**

BT: Cables  
NT: Coaxial cables  
Power cables  
Submarine cables  
RT: Connectors  
Electrical equipment

Riser cables

Umbilicals

### **Electric charge**

BT: Electricity  
RT: Bubble bursting  
Capacitance  
Electrical properties

### **Electric currents**

UF: Currents (electric)  
NT: Impressed currents  
Telluric currents  
RT: Current density  
Electric fields  
Electricity

### **Electric fences**

BT: Guiding devices  
RT: Electric fishing  
Electric stimuli  
Electrified gear

### **Electric fields**

BT: Fields  
RT: Electric currents  
Electric potential  
Electrical conductivity  
Electromagnetic radiation

### **Electric fishing**

UF: Electro-fishing  
BT: Catching methods  
RT: Electric fences  
Electric stimuli  
Electrified gear  
Pump fishing  
Stupefying methods

### **Electric generators**

UF: Generators  
BT: Electric power sources  
RT: Electrical equipment  
Motors

### **Electric impedance**

BT: Electrical properties  
Impedance  
RT: Capacitance  
Electrical conductivity  
Electrical resistivity

### **Electric organs**

UF: Electoreceptors  
RT: Bioelectricity  
Electric stimuli  
Stinging organs

### **Electric potential**

UF: Electric potential difference  
RT: Current velocity  
Electric fields

Electrical properties

Electrodes

Electromagnetism

GEK

Electric potential difference

USE: **Electric potential**

Electric power plants

USE: **Power plants**

### **Electric power sources**

UF: Power supplies  
Power systems  
NT: Batteries  
Electric generators  
Solar cells  
Wave power devices  
RT: Electricity  
Energy resources  
Motors  
Power consumption  
Power plants

Electric shocking gear

USE: **Electrified gear**

### **Electric stimuli**

BT: Stimuli  
RT: Electric fences  
Electric fishing  
Electric organs  
Electrophysiology

Electrical conductance

USE: **Electrical conductivity**

### **Electrical conductivity**

SN: Before 1982 search also  
ELECTRICAL  
CONDUCTANCE  
UF: Conductance (electrical)  
Conductivity (electrical)  
Electrical conductance  
BT: Electrical properties  
RT: Conductivity ratio  
Conductivity sensors  
CTD profilers  
Electric fields  
Electric impedance  
Electrical resistivity  
Refractive index

Electrical conductivity sensors

USE: **Conductivity sensors**

### **Electrical engineering**

BT: Engineering



## ASFA THESAURUS

### Electrical equipment

BT: Equipment  
 NT: Electroacoustic devices  
   Electrodes  
   Electronic equipment  
 RT: Batteries  
   Electric cables  
   Electric generators

### Electrical exploration

BT: Geophysical exploration  
 RT: Coast effect  
   Electrical resistivity

### Electrical insulation

BT: Insulating materials

### Electrical properties

BT: Physical properties  
 NT: Capacitance  
   Dielectric constant  
   Electric impedance  
   Electrical conductivity  
   Electrical resistivity  
 RT: Capillarity  
   Chemical properties  
   Electric charge  
   Electric potential  
   Electricity  
   Electroanalysis  
   Electrochemistry  
   Electrodialysis  
   Electrolysis  
   Electrophoresis  
   Luminescence  
   Thermodynamic properties

### Electrical resistivity

UF: Resistivity (electrical)  
 BT: Electrical properties  
 RT: Electric impedance  
   Electrical conductivity  
   Electrical exploration  
   Magnetotelluric methods  
   Permeability  
   Porosity

### Electricity

NT: Atmospheric electricity  
   Electric charge  
 RT: Electric currents  
   Electric power sources  
   Electrical properties  
   Electromagnetism  
   Power consumption

### Electrified gear

UF: Electric shocking gear  
   Electrified nets  
 BT: Fishing gear  
 RT: Electric fences

Electric fishing  
 Stupefying methods

Electrified nets  
 USE: **Electrified gear**

Electro-fishing  
 USE: **Electric fishing**

### Electroacoustic devices

BT: Acoustic equipment  
   Electrical equipment  
 RT: Acoustic transducers  
   Electronic equipment  
   Pingers

Electroanaesthesia  
 USE: **Anaesthesia**

### Electroanalysis

UF: Electrolytic analysis  
 BT: Analysis  
 RT: Chemical elements  
   Electrical properties  
   Electrochemistry  
   Polarography  
   Voltammetry

### Electrochemistry

BT: Chemistry  
 RT: Chemical properties  
   Chemical reactions  
   Corrosion  
   Electrical properties  
   Electroanalysis  
   Electrodialysis  
   Electrolysis  
   Electrophoresis

### Electrodes

BT: Electrical equipment  
 NT: Anodes  
   Cathodes  
 RT: Electric arc welding  
   Electric potential

### Electrodialysis

BT: Dialysis  
 RT: Desalination  
   Electrical properties  
   Electrochemistry  
   Electrophoresis

### Electrolysis

BT: Chemical reactions  
 RT: Analysis  
   Anions  
   Cations  
   Chemical degradation  
   Corrosion  
   Electrical properties  
   Electrochemistry

Electrolytes  
 Ion transport  
 Oxidation  
 Polarization  
 Polarography  
 Voltammetry

### Electrolytes

RT: Electrolysis

Electrolytic analysis  
 USE: **Electroanalysis**

### Electromagnetic exploration

UF: Electromagnetic survey  
 BT: Geophysical exploration  
 RT: Magnetotelluric methods

### Electromagnetic power

BT: Power from the sea  
 RT: Batteries  
   Electromagnetism

### Electromagnetic radiation

UF: Electromagnetic waves  
   Waves (electromagnetic)  
 BT: Radiations  
 NT: Gamma radiation  
   Infrared radiation  
   Light  
   Microwaves  
   Radio waves  
   Solar radiation  
   Terrestrial radiation  
   Ultraviolet radiation  
   X-rays  
 RT: Electric fields  
   Electromagnetism  
   Geosensing  
   Lasers  
   Luminescence  
   Magnetic fields  
   Nuclear radiations  
   Polarization  
   Radar imagery  
   Radiative transfer  
   Radiometers  
   Remote sensing  
   Thermal radiation

Electromagnetic survey  
 USE: **Electromagnetic exploration**

Electromagnetic waves  
 USE: **Electromagnetic radiation**

### Electromagnetism

BT: Magnetism  
 RT: Electric potential  
   Electricity  
   Electromagnetic power  
   Electromagnetic radiation

## ASFA THESAURUS

Electron microscopes  
USE: **Electron microscopy**

**Electron microscopy**  
UF: Electron microscopes  
Scanning electron microscopy  
BT: Microscopy  
RT: Ultrastructure

**Electronic equipment**  
BT: Electrical equipment  
NT: Calculators  
Computers  
Robots  
RT: Acoustic equipment  
Airborne equipment  
Electroacoustic devices  
Electronic noise  
Recording equipment  
Remote sensing equipment  
Satellites  
Sensors  
Sonar  
Test equipment  
Thermistors  
Thermocouples  
Transponders

Electronic models  
USE: **Analog models**

**Electronic noise**  
UF: Noise (electronics)  
RT: Electronic equipment  
Signal-to-noise ratio

**Electrophoresis**  
UF: Electrophoretic analysis  
BT: Analytical techniques  
RT: Biochemical analysis  
Colloids  
Electrical properties  
Electrochemistry  
Electrodialysis  
Separation  
Serological studies  
Serological taxonomy

Electrophoretic analysis  
USE: **Electrophoresis**

Electrophoretic marking  
USE: **Marking**

**Electrophysiology**  
BT: Physiology  
RT: Electric stimuli

Electroreceptors  
USE: **Electric organs**

Elements  
USE: **Chemical elements**

Elements (chemical)  
USE: **Chemical elements**

**Elisa**

Elvers  
USE: **Juveniles**

**Embankments**  
UF: Dikes (embankments)  
BT: Banks (topography)  
NT: Levees  
RT: Flood control  
Polders  
Semi-enclosed seas

**Embrittlement**  
RT: Brittleness  
Cracking (corrosion)  
Deterioration  
Stress corrosion

**Embryology**  
BT: Biology  
RT: Eggs  
Embryonic development  
Embryos  
Morphogenesis  
Ontogeny  
Organogenesis  
Vitellogenesis  
Zoology

**Embryonic development**  
BT: Biological development  
RT: Eggs  
Embryology  
Embryos  
Morphogenesis  
Vitellogenesis

**Embryos**  
BT: Developmental stages  
NT: Foetus  
RT: Eggs  
Embryology  
Embryonic development  
Larvae

**Emergence**  
SN: Appearance of the imago from  
the pupa-case or  
pupalintegument  
RT: Developmental stages  
Nymphs

**Emergencies**  
RT: Accidents

Disasters  
Evacuation

**Emergency vessels**  
UF: Standby vessels  
RT: Fire fighting  
Search and rescue  
Support ships  
Surface craft

Emergent coasts  
USE: **Emergent shorelines**

**Emergent shorelines**  
UF: Emergent coasts  
BT: Coasts  
RT: Deglaciation  
Epeirogeny  
Progradation  
Raised beaches  
Regressions  
Submerged shorelines  
Uplift

**Emergent vegetation**  
RT: Aquatic plants  
Vegetation cover

**Emission spectroscopy**  
BT: Spectroscopic techniques

**Emissivity**  
RT: Absorption coefficient  
Optical properties  
Radiance  
Surface properties

Employees  
USE: **Personnel**

**Emulsions**  
RT: Colloids  
Oil in water content  
Solutions

**Enclosures**  
BT: Barrages  
RT: Fish ponds

Encrustations  
USE: **Concretions**

**Encyclopaedias**  
UF: Encyclopedias  
BT: Documents

Encyclopedias  
USE: **Encyclopaedias**

## ASFA THESAURUS

### Encystment

SN: The formation by an organism  
of a protective capsule  
surrounding itself  
BT: Biological phenomena  
RT: Cysts  
Defence mechanisms  
Spores

Endangered organisms

USE: **Rare species**

Endangered species

USE: **Rare species**

### Endemic species

SN: A species confined naturally to  
a certain limited area or region  
UF: Indigenous species  
BT: Species  
RT: Biogeography  
Ecological distribution  
Endemism  
Geographical distribution  
Introduced species  
Migratory species

Endemicity

USE: **Endemism**

### Endemism

UF: Endemicity  
RT: Biogeography  
Endemic species  
Geographical distribution

### Endocrine glands

UF: Ductless glands  
Endocrine systems  
BT: Glands  
NT: Adrenal glands  
Gonads  
Pituitary gland  
Thymus  
Thyroid  
RT: Endocrinology  
Hormones

Endocrine systems

USE: **Endocrine glands**

### Endocrinology

BT: Physiology  
RT: Endocrine glands  
Enzymes  
Hormones  
Metabolism

Endofauna

USE: **Burrowing organisms**

Endogenous rhythms

USE: **Biological rhythms**

### Endoparasites

BT: Parasites  
RT: Endoparasitism  
Phagocytosis  
Toxicity

### Endoparasitism

BT: Parasitism  
RT: Endoparasites  
Phagocytosis

### Endoskeleton

BT: Skeleton  
NT: Bones  
RT: Otoliths  
Vertebrae counts

Endosymbionts

USE: **Symbionts**

Endothelium

USE: **Epithelia**

### Endotoxins

SN: Poisonous substances produced  
and retained within a cell, and  
released only after death of  
the cell  
BT: Biological poisons  
RT: Bacteria  
Bacterial diseases  
Bacteriology

### Energy

SN: Use does not include energy  
resources  
NT: Geothermal energy  
Heat  
Kinetic energy  
Nuclear energy  
Potential energy  
Wave energy  
RT: Conservation of energy  
Energy balance  
Energy budget  
Energy flow  
Energy resources  
Free energy

### Energy balance

RT: Energy  
Energy budget  
Energy flow

### Energy budget

NT: Heat budget  
RT: Bioenergetics  
Calorimetry  
Cycles

Ecological efficiency

Energy  
Energy balance  
Energy dissipation  
Energy flow  
Entropy  
Hydrologic cycle  
Interface phenomena  
Nutrients (mineral)

### Energy dissipation

BT: Energy transfer  
NT: Wave dissipation  
RT: Energy budget  
Friction

### Energy flow

RT: Energy  
Energy balance  
Energy budget  
Food webs  
Metabolism  
Solar radiation  
Trophic levels  
Trophodynamic cycle

Energy flux

USE: **Energy transfer**

### Energy resources

UF: Energy sources  
BT: Natural resources  
NT: Geothermal power  
Hydroelectric power  
Power from the sea  
Solar power  
Wind power  
RT: Electric power sources  
Energy  
Fossil fuels  
Oil reserves

Energy sources

USE: **Energy resources**

### Energy spectra

UF: Power spectra  
BT: Spectra  
RT: Directional spectra  
Frequency spectra  
Water currents  
Water waves

### Energy transfer

UF: Energy flux  
Transfer of properties  
NT: Energy dissipation  
Heat transfer  
Radiative transfer  
RT: Air-water exchanges  
Air-water interface

(cont'd)

## ASFA THESAURUS

### *Energy transfer (cont'd)*

- Baroclinic instability
- Barotropic instability
- Mass transfer
- Moisture transfer
- Momentum transfer
- Wave energy
- Wave generation
- Wave interactions

### **Engineering**

SN: Use of a more specific term is recommended

NT: Aquaculture engineering

- Chemical engineering
- Civil engineering
- Coastal engineering
- Electrical engineering
- Fishery engineering
- Hydraulic engineering
- Offshore engineering
- Petroleum engineering
- River engineering
- Sanitary engineering
- Structural engineering

RT: Design

- Engineering drawings
- Engineers
- Technology

### **Engineering drawings**

UF: Blueprints

BT: Graphics

RT: Design

- Engineering

### **Engineers**

BT: Experts

RT: Engineering

### Engines

USE: **Motors**

### Enmeshing nets

USE: **Gillnets**

### **Enstrophy**

SN: Total squared vorticity

BT: Vorticity

### **Entangling nets**

UF: Trammels

BT: Fishing nets

RT: Gillnets

### Enteric redmouth

USE: **Redmouth disease**

### **Enthalpy**

BT: Thermodynamic properties

NT: Sublimation heat

- Vaporization heat

RT: Conservative properties

- Entropy
- Free energy
- Specific heat
- Thermodynamics

### **Entomologists**

BT: Zoologists

RT: Entomology

- Taxonomists

### **Entomology**

BT: Invertebrate zoology

RT: Aquatic insects

- Entomologists

### **Entrainment**

SN: Intaking of free-floating organisms from surrounding waters through power plant screens. For entrainment as a hydrodynamic process use **TURBULENT ENTRAINMENT**

UF: Plankton entrainment

- Power plant entrainment

RT: Cooling water

- Impingement
- Turbulent entrainment

### **Entropy**

BT: Thermodynamic properties

RT: Energy budget

- Enthalpy
- Heat transfer
- Thermodynamics

### **Environment management**

SN: Management of the aquatic environment

BT: Management

RT: Aquatic environment

- Ecosystem management
- Environmental legislation
- Environmental monitoring
- Environmental surveys
- Nature conservation
- Resource conservation
- Resource management
- Waste treatment

### **Environmental assessment**

RT: Environmental conditions

- Environmental effects
- Environmental factors
- Environmental impact
- Environmental monitoring
- Environmental surveys

### **Environmental charts**

SN: Distributional charts of physico-chemical factors in aquatic environment

BT: Maps

RT: Environmental conditions

- Environmental factors
- Environmental surveys
- Environments
- Hydrographic charts
- Isohalines
- Isotherms

Environmental chemistry

USE: **Geochemistry**

### **Environmental conditions**

RT: Ecology

- Environmental assessment
- Environmental charts
- Environmental diseases
- Environmental effects
- Environmental factors
- Environmental surveys
- Environments
- Limiting factors
- Sea state
- Wave climate

Environmental contamination

USE: **Pollution**

### **Environmental diseases**

SN: Diseases associated with physical or physico-chemical abnormalities of water

UF: Abiotic diseases

BT: Diseases

RT: Animal diseases

- Environmental conditions
- Husbandry diseases
- Sunburn

### **Environmental effects**

SN: Effects of environmental conditions on living organisms and fisheries

NT: Culture effects

- Gravity effects
- Group effects
- Light effects
- pH effects
- Pressure effects
- Salinity effects
- Temperature effects
- Tidal effects

RT: Aestivation

- Biological production
- Biological resistance
- Disease resistance
- Drought resistance
- Ecological aggregations
- Ecological crisis
- Ecological distribution
- Ecophysiology

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## ASFA THESAURUS

### *Environmental effects (cont'd)*

Environmental assessment  
Environmental conditions  
Environmental factors  
Environments  
Evapotranspiration  
Hibernation  
Natural selection  
Phenotypes  
Phenotypic variations  
Resting stages  
Synecology  
Tolerance  
Vertical migrations  
Weathering

### **Environmental factors**

NT: Abiotic factors  
    Anthropogenic factors  
    Biotic factors  
RT: Discontinuity layers  
    Environmental assessment  
    Environmental charts  
    Environmental conditions  
    Environmental effects  
    Environmental surveys  
    Environments  
    Food availability  
    Habitat selection  
    Limiting factors  
    Marine ecology  
    Seismic activity  
    Thermocline  
    Water properties

### **Environmental impact**

SN: The change in well-being of the ecosystems, that results from a process set in motion or accelerated by man's actions  
RT: Environmental assessment  
    Environmental legislation  
    Hazard assessment  
    Man-induced effects  
    Pollution effects

### **Environmental legislation**

SN: Legislation for protection of aquatic environment and organisms  
BT: Legislation  
NT: Pollution legislation  
RT: Conservation  
    Environment management  
    Environmental impact  
    Environmental protection  
    Law of the sea

### **Environmental monitoring**

BT: Monitoring  
NT: Pollution monitoring  
RT: Environment management

Environmental assessment  
Environmental protection  
Warning services

Environmental pollution

USE: **Pollution**

### **Environmental protection**

BT: Protection  
NT: Shore protection  
RT: Conservation  
    Environmental legislation  
    Environmental monitoring  
    Pollution control

### **Environmental surveys**

BT: Surveys  
NT: Limnological surveys  
    Oceanographic surveys  
    Pollution surveys  
RT: Aquatic environment  
    Biological surveys  
    Environment management  
    Environmental assessment  
    Environmental charts  
    Environmental conditions  
    Environmental factors

### **Environments**

SN: Use of a more specific term is recommended  
NT: Aquatic environment  
    Palaeoenvironments  
    Sedimentary environments  
    Tropical environment  
RT: Environmental charts  
    Environmental conditions  
    Environmental effects  
    Environmental factors

### **Enzymatic activity**

UF: Enzyme activity  
    Enzymic activity  
RT: Biosynthesis  
    Catalysts  
    Digestion  
    Enzymes  
    Metabolism

Enzymatic hydrolysis

USE: **Enzymolysis**

Enzyme activity

USE: **Enzymatic activity**

### **Enzyme inhibitors**

SN: Before 1982 search INHIBITORS  
BT: Inhibitors  
NT: Cholinesterase inhibitors  
RT: Enzymes  
    Metabolism

### **Enzymes**

UF: Cellulase  
    Heteroenzymes  
    Isodynamic enzymes  
    Ligases  
    Permeases  
    Proteinase  
NT: Allozymes  
    Carbonic anhydrase  
    Coenzymes  
    Dehydrogenases  
    Hydrolases  
    Isoenzymes  
    Isomerases  
    Lyases  
    Oxidoreductases  
    Phosphatase  
    Transferases  
RT: Autolysis  
    Catalysts  
    Colloids  
    Endocrinology  
    Enzymatic activity  
    Enzyme inhibitors  
    Enzymolysis  
    Fermentation  
    Hormones  
    Proteins

Enzymic activity

USE: **Enzymatic activity**

### **Enzymolysis**

SN: Hydrolysis by means of enzymes  
UF: Enzymatic hydrolysis  
BT: Hydrolysis  
RT: Enzymes

### **Eocene**

SN: Before 1982 search EOCENE  
    EPOCH  
BT: Palaeogene

### **Eolian deposits**

SN: Consolidated wind-blown deposits  
UF: Aeolian deposits  
RT: Allochthonous deposits  
    Clastics  
    Eolian processes  
    Eolian transport  
    Sabkhas  
    Sandstone  
    Terrigenous sediments  
    Volcanic ash

### **Eolian dust**

SN: Restrict use to dust of terrigenous origin found in sediments, suspended

(cont'd)

## ASFA THESAURUS

### *Eolian dust (cont'd)*

particulate matter or at sea surface

UF: Aeolian dust

BT: Dust

RT: Cosmic dust

Eolian processes

Eolian transport

Palaeoclimatology

Suspended particulate matter

Terrigenous sediments

Volcanic ash

### **Eolian processes**

UF: Aeolian processes

RT: Eolian deposits

Eolian dust

Eolian transport

Winds

### **Eolian transport**

UF: Aeolian transport

BT: Sediment transport

RT: Dust clouds

Eolian deposits

Eolian dust

Eolian processes

Volcanic ash

Wind abrasion

Winds

Eotvos correction

USE: **Gravity corrections**

### **Epeirogeny**

SN: Movements which affect large tracts of the earth's crust

UF: Bathymogenesis

Vertical movements (geology)

BT: Tectonics

NT: Subsidence

Uplift

RT: Continents

Crustal adjustment

Crustal shortening

Earth crust

Emergent shorelines

Eustatic changes

Ocean basins

Orogeny

Submerged shorelines

Submergence

Vertical tectonics

Ephemeral lakes

USE: **Temporary ponds**

Ephemeris

USE: **Nautical almanacs**

Epibenthos

USE: **Benthos**

### **Epibionts**

UF: Epibiota

NT: Epiphytes

Epizoites

RT: Epibiosis

### **Epibiosis**

BT: Interspecific relationships

RT: Epibionts

Epiphytes

Epizoites

Symbiosis

Epibiota

USE: **Epibionts**

### **Epicentres**

UF: Seismic epicentres

RT: Earthquakes

Seismology

### **Epidemics**

RT: Epidemiology

Infectious diseases

Mortality causes

Pathology

Public health

Quarantine regulations

### **Epidemiology**

RT: Bacteriology

Disease control

Epidemics

Infectious diseases

Parasitology

Epidermis

USE: **Skin**

### **Epilimnion**

UF: Upper layers (lakes)

RT: Hypolimnion

Metalimnion

Surface layers

Surface water

Thermal stratification

Thermocline

Water column

### **Epipelagic zone**

SN: Waters above 200 m depth

UF: Photic environment

BT: Oceanic province

RT: Euphotic zone

Littoral zone

Neritic province

### **Epiphytes**

BT: Epibionts

RT: Epibiosis

Periphyton

Symbionts

Epipsammic species

USE: **Epipsammon**

### **Epipsammon**

SN: Organisms living attached to sand grain

UF: Epipsammic species

BT: Aquatic communities

RT: Microorganisms

Psammon

Sand

### **Epithelia**

UF: Endothelium

Epithelium

BT: Tissues

RT: Integumentary system

Skin

Epithelium

USE: **Epithelia**

### **Epizoites**

BT: Epibionts

RT: Commensalism

Ectoparasites

Epibiosis

### **Epontic environment**

UF: Under-ice environment

BT: Aquatic environment

RT: Epontic organisms

### **Epontic organisms**

UF: Under-ice organisms

RT: Epontic environment

### **Epoxy resins**

SN: Synthetic resins used for protective coatings and adhesives

RT: Adhesives

Plastic coatings

### **Equation of continuity**

UF: Conservation of volume

Continuity equation

BT: Equations

RT: Conservation equations

Conservation of mass

Equations of state

Fluid dynamics

### **Equations**

NT: Conservation equations

Differential equations

Equation of continuity

Equations of motion

Equations of state

Hydrodynamic equations

Integral equations

(cont'd)

## ASFA THESAURUS

### *Equations (cont'd)*

Kortweg Devries equation  
Laplace equation  
Morison's equation  
Navier-Stokes equations  
Nonlinear equations  
Poisson's equation  
Tidal equations  
RT: Mathematics

### **Equations of motion**

UF: Euler equations of motion  
BT: Equations  
RT: Hydrostatic equation

### **Equations of state**

BT: Equations  
RT: Equation of continuity  
Thermodynamics

### **Equator**

RT: Latitude

Equatorial calms

USE: **Equatorial trough**

### **Equatorial circulation**

SN: Before 1982 search  
EQUATORIAL CURRENTS  
UF: Equatorial current system  
Equatorial currents  
BT: Ocean circulation  
RT: Equatorial countercurrents  
Equatorial dynamics  
Equatorial undercurrents  
Equatorial upwelling  
Monsoon reversal  
Tropical oceanography

### **Equatorial countercurrents**

BT: Countercurrents  
RT: Equatorial circulation  
Equatorial dynamics

Equatorial current system

USE: **Equatorial circulation**

Equatorial currents

USE: **Equatorial circulation**

### **Equatorial dynamics**

RT: Beta-plane  
Dynamical oceanography  
Equatorial circulation  
Equatorial countercurrents  
Equatorial trapped waves  
Equatorial undercurrents  
Equatorial upwelling  
Monsoon reversal  
Planetary waves  
Tropical meteorology  
Tropical oceanography

### **Equatorial easterlies**

BT: Trade winds  
RT: Easterly waves  
Equatorial waves  
Equatorial westerlies

### **Equatorial trapped waves**

BT: Kelvin waves  
RT: Equatorial dynamics

### **Equatorial trough**

UF: Doldrums  
Equatorial calms  
BT: Low pressure troughs  
RT: Easterly waves  
Equatorial westerlies  
Intertropical convergence zone  
Tropical meteorology

### **Equatorial undercurrents**

BT: Undercurrents  
RT: Equatorial circulation  
Equatorial dynamics

### **Equatorial upwelling**

BT: Upwelling  
RT: Equatorial circulation  
Equatorial dynamics

### **Equatorial waves**

BT: Water waves  
RT: Equatorial easterlies

### **Equatorial westerlies**

BT: Westerlies  
RT: Equatorial easterlies  
Equatorial trough

### **Equilibrium**

NT: Chemical equilibrium  
Geostrophic equilibrium  
Thermodynamic equilibrium  
RT: Diffusion  
Isostasy  
Stability  
Steady state  
Unsteady state  
Variability

Equilibrium constants

USE: **Chemical equilibrium**

### **Equipment**

SN: Only for papers in which the description, use, performance, or fabrication of equipment is the main topic. Use of a more specific term is recommended  
UF: Plant (equipment)  
NT: Acoustic equipment  
Airborne equipment  
Aquaculture equipment

Deck equipment  
Deicing equipment  
Detectors  
Detonators  
Diving equipment  
Drilling equipment  
Electrical equipment  
Feeding equipment  
Fishery industry equipment  
Geological equipment  
Geophysical equipment  
Instruments  
Laboratory equipment  
Limnological equipment  
Measuring devices  
Mining equipment  
Oceanographic equipment  
Offshore equipment  
Photographic equipment  
Recording equipment  
Remote sensing equipment  
Safety devices  
Salvage equipment  
Sensors  
Shipboard equipment  
Surveying equipment  
Test equipment  
Transducers  
Underwater equipment  
RT: Calibration  
Components  
Machinery  
Modules  
Monitoring systems

Equipment catalogues

USE: **Catalogues**

### **Erbium**

BT: Lanthanides

### **Erosion**

UF: Erosion (geology)  
NT: Bottom erosion  
Coastal erosion  
Glacial erosion  
Scouring  
Soil erosion  
Wind erosion  
RT: Denudation  
Erosion control  
Erosion features  
Sedimentation  
Slumping  
Weathering

Erosion (biological)

USE: **Bioerosion**

Erosion (geology)

USE: **Erosion**

## ASFA THESAURUS

Erosion (thermocline)  
USE: **Thermocline decay**

### **Erosion control**

UF: Erosion prevention  
Erosion protection  
BT: Control  
NT: Pipeline protection  
RT: Dune stabilization  
Erosion  
Flood control  
Soil conservation

### **Erosion features**

UF: Coastal erosion features  
RT: Deposition features  
Erosion  
Erosion surfaces  
Landforms  
Sedimentary structures  
Topographic features

Erosion platforms  
USE: **Wave-cut platforms**

Erosion prevention  
USE: **Erosion control**

Erosion protection  
USE: **Erosion control**

### **Erosion surfaces**

UF: Planation surfaces  
BT: Surfaces  
RT: Erosion features  
Wave-cut platforms

Erratics  
USE: **Glacial erratics**

### **Errors**

NT: Analytical errors  
RT: Approximation  
Corrections  
Resolution

### **Erythrocytes**

UF: Red blood cells  
Red blood corpuscles  
BT: Blood cells  
RT: Anaemia  
Erythropoiesis

### **Erythropoiesis**

RT: Erythrocytes  
Haematology  
Haemopoiesis

### **Erytrophores**

USE: **Chromatophores**

Escape of water  
USE: **Floods**

### **Escapement**

UF: Escapement rate  
RT: Avoidance reactions  
Catchability  
Survival

Escapement rate  
USE: **Escapement**

### **Escarments**

UF: Scarps  
BT: Topographic features  
NT: Fault scarps  
Submarine scarps  
RT: Fracture zones  
Median valleys

### **Eskers**

RT: Glacial features

Esophagus  
USE: **Oesophagus**

### **Esters**

BT: Organic compounds  
NT: Phthalate esters  
RT: Lipids

Estimation  
USE: **Approximation**

Estrogens  
USE: **Sex hormones**

### **Estuaries**

BT: Coastal inlets  
NT: Partially-mixed estuaries  
Salt-wedge estuaries  
RT: Bays  
Brackishwater environment  
Estuarine chemistry  
Estuarine dynamics  
Estuarine front  
Estuarine sedimentation  
Estuarine tides  
Fjords  
Inlets (waterways)  
Tidal inlets

Estuarine aquaculture  
USE: **Brackishwater aquaculture**

### **Estuarine chemistry**

RT: Chemical limnology  
Chemical oceanography  
Estuaries

Estuarine circulation  
USE: **Estuarine dynamics**

### **Estuarine dynamics**

SN: Before 1982 search also  
ESTUARINE CIRCULATION  
UF: Estuarine circulation  
BT: Shelf dynamics  
RT: Bay dynamics  
Coastal oceanography  
Dynamical oceanography  
Estuaries  
Estuarine front  
Estuarine tides  
Flushing time  
Longitudinal dispersion  
Longshore currents  
Nearshore currents  
Nearshore dynamics  
Salt wedges  
Tidal currents  
Water mixing

Estuarine environment  
USE: **Brackishwater environment**

Estuarine fish  
USE: **Brackishwater fish**

### **Estuarine fisheries**

SN: Fisheries in estuaries and coastal lagoons  
BT: Fisheries  
RT: Artisanal fishing  
Brackishwater fish  
Coastal fisheries  
Estuarine organisms  
Finfish fisheries  
Marine fisheries  
Oyster fisheries  
River fisheries

### **Estuarine front**

UF: Estuarine interface  
Freshwater-seawater interface  
BT: Oceanic fronts  
RT: Estuaries  
Estuarine dynamics  
River plumes

Estuarine interface  
USE: **Estuarine front**

Estuarine molluscs  
USE: **Brackishwater molluscs**

### **Estuarine organisms**

UF: Brackishwater organisms  
BT: Aquatic organisms  
NT: Brackishwater fish  
Brackishwater molluscs  
RT: Brackishwater aquaculture  
Brackishwater ecology  
Estuarine fisheries  
Salinity tolerance



## ASFA THESAURUS

Estuarine pollution

USE: **Brackishwater pollution**

### **Estuarine sedimentation**

BT: Sedimentation

RT: Estuaries

Intertidal sedimentation

Sedimentary environments

Tidal deposits

Tidal flats

### **Estuarine tides**

BT: Tides

RT: Estuaries

Estuarine dynamics

Shallow water tides

### **Ethane**

BT: Acyclic hydrocarbons

### **Ethene**

UF: Ethylene

BT: Alkenes

### **Ethology**

SN: Study of all aspects of  
behaviour using biological  
methods. Before 1982 search

BEHAVIOUR

BT: Ecology

RT: Behaviour

Ethylene

USE: **Ethene**

### **Ethyne**

UF: Acetylene

BT: Alkynes

Etiology

USE: **Aetiology**

Euler equations of motion

USE: **Equations of motion**

### **Eulerian current measurement**

SN: Before 1982 search also

EULERIAN METHODS

(CURRENT MEASUREMENT)

UF: Eulerian methods (current  
measurement)

BT: Current measurement

RT: Acoustic current meters

Eulerian methods (current  
measurement)

USE: **Eulerian current  
measurement**

### **Eulittoral zone**

BT: Littoral zone

RT: Intertidal environment

### **Euphotic zone**

SN: Upper level of ocean region  
from surface to limit of  
effective light penetration

UF: Photosynthetic zone

RT: Aphotic zone

Compensation depth

Epipelagic zone

Lenitic environment

Light penetration

Marine environment

Mesopelagic zone

### **Europium**

BT: Lanthanides

RT: Europium isotopes

Radioisotopes

### **Europium isotopes**

BT: Isotopes

RT: Europium

Euryhaline organisms

USE: **Euryhalinity**

Euryhaline species

USE: **Euryhalinity**

### **Euryhalinity**

UF: Euryhaline organisms

Euryhaline species

BT: Biological properties

RT: Osmoregulation

Osmotic adaptations

Salinity tolerance

Stenohalinity

Eurythermal organisms

USE: **Eurythermy**

### **Eurythermy**

UF: Eurythermal organisms

BT: Biological properties

RT: Stenothermy

Temperature tolerance

Eustasy

USE: **Eustatic changes**

### **Eustatic changes**

SN: World-wide sea level changes  
resulting from change in absolute  
volume of seawater due mainly to  
climatic change

UF: Eustasy

BT: Sea level changes

RT: Climatic changes

Epeirogeny

Progradation

Regressions

Retrogradation

Transgressions

Water budget

### **Eutrophic lakes**

BT: Lakes

RT: Dystrophic lakes

Eutrophic waters

Eutrophication

Oligotrophic lakes

### **Eutrophic waters**

RT: Brackishwater environment

Eutrophic lakes

Eutrophication

Inland water environment

Marine environment

### **Eutrophication**

SN: The continuing process of  
increasing fertility of water

RT: Dissolved oxygen

Eutrophic lakes

Eutrophic waters

Hypertrophy

Nutrients (mineral)

Pollution effects

Primary production

Water properties

Water quality

### **Evacuation**

RT: Emergencies

Safety regulations

### **Evaluation**

UF: Appraisal

NT: Performance assessment

Site selection

RT: Acceptability

Certification

Feasibility

Reliability

### **Evaporation**

BT: Vaporization

NT: Evapotranspiration

RT: Ablation

Air temperature

Air-ice interface

Air-water exchanges

Air-water interface

Bowen ratio

Condensation

Dehydration

Desalination

Desiccation

Diffusion

Drying

Heat budget

Heat exchange

Moisture

(cont'd)

## ASFA THESAURUS

### *Evaporation (cont'd)*

Moisture transfer  
Saturation  
Sublimation  
Surface water  
Transpiration  
Water budget  
Water properties  
Water temperature

Evaporation control

USE: **Evaporation reduction**

Evaporation fog

USE: **Fog**

Evaporation ponds

USE: **Evaporation tanks**

### **Evaporation reduction**

UF: Evaporation control  
BT: Damping  
RT: Water conservation

### **Evaporation tanks**

UF: Evaporation ponds  
BT: Tanks

### **Evaporites**

BT: Authigenic minerals  
RT: Anhydrite  
Borate minerals  
Chemical sediments  
Dolomite  
Gypsum  
Halite  
Sabkhas  
Salt deposits  
Sedimentary rocks  
Sodium chloride

### **Evapotranspiration**

SN: Loss of water vapour from soil surface and vegetation combined  
BT: Evaporation  
Transpiration  
RT: Environmental effects  
Water balance  
Water content

Evisceration

USE: **Gutting**

### **Evolution**

SN: Use of a more specific term is recommended  
UF: Bioevolution  
Convergent evolution  
Evolution (organisms)  
BT: Biological phenomena  
RT: Biogenesis  
Biogeny

Biological speciation

Bioselection

Degeneration

Genetics

Morphogenesis

Mutations

New genera

New species

Phylogenetics

Protists

Sibling species

Evolution (atmosphere)

USE: **Atmosphere evolution**

Evolution (organisms)

USE: **Evolution**

Evolution (seawater)

USE: **Seawater evolution**

Evolutionary retrogression

USE: **Degeneration**

Examinations

USE: **Inspection**

### **Excavation underwater**

UF: Underwater excavation  
RT: Dredging

### **Exchange capacity**

UF: Cation exchange capacity  
RT: Adsorption  
Cations  
Dissolution  
Ions  
Solutions

### **Exchange coefficients**

UF: Austausch coefficients  
Eddy coefficients  
BT: Coefficients  
NT: Diffusion coefficients  
Viscosity coefficients  
RT: Eddy flux  
Mixing length

### **Exclusive economic zone**

UF: EEZ  
Exclusive fishery zone  
Exclusive fishing zone  
BT: Ocean space  
RT: Allocation systems  
Coastal states  
Contiguous zones  
Fishery boundaries  
Fishery protection  
Fishery regulations  
Fishing rights  
Foreign fishing  
Illegal fishing

Shared stocks

Territorial waters

Underwater exploitation

Exclusive fishery zone

USE: **Exclusive economic zone**

Exclusive fishing rights

USE: **Fishing rights**

Exclusive fishing zone

USE: **Exclusive economic zone**

### **Exclusive rights**

BT: Rights  
RT: Fishing rights  
Water rights

### **Excretion**

NT: Defaecation  
RT: Bioaccumulation  
Excretory organs  
Excretory products  
Gastric evacuation  
Secretion

### **Excretory organs**

BT: Animal organs  
NT: Kidneys  
Spleen  
RT: Bladders  
Excretion  
Excretory products

### **Excretory products**

NT: Faecal pellets  
Urine  
RT: Digestion  
Excretion  
Excretory organs

### **Exhibitions**

UF: Trade shows  
RT: Conferences  
Museums

### **Exocrine glands**

BT: Glands  
NT: Digestive glands  
RT: Mucins  
Mucus

### **Exophthalmia**

SN: Protruding of fish eyeballs as a result of accumulation of fluid or gases at the back of the eye socket  
UF: Popeye  
BT: Symptoms  
RT: Bubble disease

## ASFA THESAURUS

### Exoskeleton

BT: Skeleton  
NT: Carapace  
Cuticles  
Scales  
RT: Bony fins  
Chitin  
Shells

### Expedition reports

SN: Final published reports  
containing results etc. of both  
cruises and multiship  
expeditions  
BT: Documents  
RT: Atlases  
Cruise reports  
Expeditions  
Historical account

### Expedition stations

USE: **Cruise stations**

### Expeditions

SN: Use only for international  
projects involving simultaneous  
surveys of land, sea and air, e.g.  
IGY. For oceanographic surveys  
use narrower term. Before 1982  
search also CRUISES  
NT: Cruises  
Multiship expeditions  
RT: Expedition reports  
Exploration  
Surveys

### Expeditions (multiship)

USE: **Multiship expeditions**

### Expeditions (one vessel)

USE: **Cruises**

### Expendable bathythermographs

USE: **XBTs**

### Expendable drifting buoys

USE: **Drifting data buoys**

### Expenses

USE: **Costs**

### Experimental culture

UF: Pilot-scale culture  
RT: Aquaculture development  
Cultures  
Experimental research  
Feeding experiments  
Laboratory culture

### Experimental data

BT: Data  
RT: Experimental research

### Experimental fisheries

USE: **Experimental fishing**

### Experimental fishing

UF: Experimental fisheries  
Test fishing  
BT: Fishing  
RT: Catching methods  
Exploratory fishing  
Fishing technology  
Gear research

### Experimental rearing

USE: **Rearing**

### Experimental research

SN: Research done in experimental  
or laboratory conditions. Used  
only as a qualifier  
UF: Laboratory research  
Research (experimental)  
BT: Research  
RT: Controlled conditions  
Experimental culture  
Experimental data

### Expert systems

USE: **Artificial intelligence**

### Experts

SN: Restricted to professionals  
involved with aquatic sciences  
and technology  
UF: Professionals  
Specialists  
BT: Personnel  
NT: Engineers  
Technicians  
RT: Consultants  
Scientific personnel

### Exploitation

UF: Commercial exploitation  
Exploitation rate  
Resource exploitation  
NT: Underwater exploitation  
RT: Multiple use of resources  
Resource availability  
Resource development

### Exploitation (minerals)

USE: **Mining**

### Exploitation (oil and gas)

USE: **Oil and gas production**

### Exploitation rate

USE: **Exploitation**

### Exploration

SN: Use of a specific term is  
recommended

### NT: Geographical exploration

Geophysical exploration  
Polar exploration  
Resource exploration  
Underwater exploration  
RT: Expeditions  
Exploration rights  
Surveys

### Exploration rights

BT: Rights  
RT: Exploration

### Exploratory behaviour

BT: Behaviour

### Exploratory drilling

USE: **Oil and gas exploration**

### Exploratory fishing

BT: Fishing  
RT: Experimental fishing  
Stock assessment

### Exploratory mining

USE: **Mineral exploration**

### Explosions

NT: Nuclear explosions  
Underwater explosions  
RT: Blasting  
Explosives  
Fire  
Implosions

### Explosive fishing

SN: Handling of explosives for  
capture of aquatic animals,  
mainly fish  
BT: Catching methods  
RT: Stupefying methods

### Explosive welding

USE: **Welding**

### Explosives

BT: Hazardous materials  
NT: Shaped charges  
RT: Blasting  
Detonators  
Explosions

### Exports

USE: **Trade**

### Exposed environment

USE: **Exposed habitats**

## ASFA THESAURUS

### Exposed habitats

UF: Exposed environment  
BT: Habitat  
RT: Exposure tolerance  
Intertidal environment  
Sheltered habitats

Exposure to air

USE: **Air exposure**

### Exposure tolerance

BT: Tolerance  
RT: Air exposure  
Exposed habitats  
Sheltered habitats

### Extended jurisdiction

UF: Extraterritoriality  
BT: Jurisdiction  
RT: Coastal states  
Fishing rights  
Ocean space

Extensive aquaculture

USE: **Extensive culture**

### Extensive culture

UF: Extensive aquaculture  
BT: Aquaculture techniques  
RT: Brackishwater aquaculture  
Fish culture  
Freshwater aquaculture  
Pond culture  
Valliculture

External anatomy

USE: **Organism morphology**

External fertilization

USE: **Biological fertilization**

Exteroceptors

USE: **Receptors**

### Extinction coefficient

SN: Before 1982 search  
ABSORPTIVITY  
UF: Attenuation coefficient  
BT: Optical properties  
RT: Absorption coefficient  
Attenuance  
Light absorption  
Light attenuation  
Water transparency

Extinction of species

USE: **Species extinction**

### Extracellular

RT: Cells

Extraction (animal oil)

USE: **Animal oil extraction**

Extraction (chemical)

USE: **Chemical extraction**

Extraction (salts)

USE: **Desalination**

Extraterrestrial interactions

USE: **Solar-terrestrial activity**

### Extraterrestrial material

SN: Material of cosmic origin found  
in sediments  
UF: Tektites  
NT: Cosmic dust  
Cosmic spherules  
RT: Allochthonous deposits

Extraterritoriality

USE: **Extended jurisdiction**

### Extreme values

SN: Use with property or  
phenomena

UF: Extremes  
NT: Annual range  
RT: Astronomical tides  
Extreme waves

### Extreme waves

RT: Extreme values  
Surface water waves  
Wave height

Extremes

USE: **Extreme values**

### Eyes

BT: Photoreceptors  
NT: Compound eyes  
Eyestalks  
Retinas  
RT: Vision  
Visual stimuli

Eyestalk ablation

USE: **Eyestalk extirpation**

### Eyestalk extirpation

SN: Before 1982 search ORGAN  
REMOVAL  
UF: Eyestalk ablation  
BT: Organ removal  
RT: Eyestalks

### Eyestalks

BT: Eyes  
RT: Eyestalk extirpation

### Facies

NT: Biofacies  
Lithofacies  
Metamorphic facies  
Sedimentary facies  
Shelf facies

### Facsimile transmission

BT: Data transmission

### Factory ships

BT: Support ships  
RT: Fishery industry equipment  
Fishery industry plants  
Fishing vessels  
High seas fisheries  
Work platforms

### Faecal pellets

UF: Fecal pellets  
BT: Excretory products  
RT: Defaecation

### Failures

SN: Significant result of damage,  
defects or deterioration  
RT: Damage  
Defects  
Deterioration  
Reliability  
Scouring  
Settlement (structural)

### Fairings

RT: Cables

Fall

USE: **Autumn**

Fall season

USE: **Autumn**

Falling gear

USE: **Cast nets**

### Fallout

UF: Atmospheric fallout  
Radioactive fallout  
RT: Air pollution  
Atmospheric particulates  
Fission products  
Nuclear radiations  
Radioactive aerosols  
Radioactive contamination  
Radioactive pollutants  
Radioactive wastes  
Radioactivity

### Fans

NT: Alluvial fans  
Deep-sea fans

## ASFA THESAURUS

Farm ponds

USE: **Fish ponds**

Farmed fish economics

USE: **Aquaculture economics**

**Fast ice**

BT: Floating ice

RT: Ice shelves

Lake ice

Sea ice

Fat content

USE: **Body conditions**

**Fate**

SN: Fate of substances in the environment

RT: Accumulation

Degradation

Dispersion

Permanence

Persistence

Weathering

Fatigue (biological)

USE: **Biological stress**

**Fatigue (materials)**

SN: Before 1982 search STRESS

NT: Metal fatigue

RT: Corrosion

Cyclic loading

Deterioration

Stress (mechanics)

Stress corrosion

**Fats**

BT: Lipids

RT: Bile

Fatty acids

Organic constituents

Fattening ponds

USE: **Growing ponds**

**Fatty acids**

BT: Organic acids

NT: Polyunsaturated fatty acids

RT: Fats

Hydrocarbons

Fault escarpments

USE: **Fault scarps**

**Fault scarps**

UF: Fault escarpments

BT: Escarpments

RT: Cliffs

Faults

Submarine scarps

**Fault zones**

RT: Faults

Fracture zones

Rift valleys

Rift zones

Rifting

Shear zone

**Faults**

UF: Faults (geology)

Geological faults

BT: Geological structures

NT: Strike-slip faults

Thrust faults

Transform faults

RT: Fault scarps

Fault zones

Graben

Rift valleys

Rock deformation

Faults (defects)

USE: **Defects**

Faults (geology)

USE: **Faults**

**Fauna**

NT: Aquatic animals

RT: Biota

Faunal provinces

**Faunal provinces**

RT: Biogeography

Fauna

**Feasibility**

SN: More specific term is recommended. Before 1995 search also FEASIBILITY STUDIES

UF: Feasibility studies

NT: Economic feasibility

Technical feasibility

RT: Evaluation

Production cost

Risks

Feasibility studies

USE: **Feasibility**

**Feathers**

UF: Contour feathers

Filoplumes

Plumulae

BT: Integumentary system

RT: Aquatic birds

Fecal pellets

USE: **Faecal pellets**

**Fecundity**

SN: An organism's capacity to produce offspring

UF: Fertility (reproductive)

Natality

BT: Biological properties

RT: Brood stocks

Eggs

Ovaries

Sexual maturity

Sperm

Testes

Federal governments

USE: **Governments**

Federal jurisdiction

USE: **Jurisdiction**

**Fee fishing**

SN: An enterprise in which catchable organisms are stocked into ponds or lakes and customers pay for the privilege of fishing

BT: Fishing

RT: Sport fishing

**Feed**

SN: Substances used for animal feeding by man

UF: Animal feed

Artificial feed

BT: Livestock food

NT: Pellet feeds

RT: Feed efficiency

Feed preparation

Feeding

Feeding experiments

**Feed composition**

SN: Constituents and chemical composition of artificial feeds

BT: Chemical composition

RT: Artificial feeding

Dietary deficiencies

Feed efficiency

Feed preparation

Feeding experiments

Feed conversion rate

USE: **Feed efficiency**

**Feed efficiency**

UF: Feed conversion rate

RT: Conversion factors

Diets

Feed

Feed composition

Feeding experiments

Nutritive value

## ASFA THESAURUS

### Feed preparation

- RT: Feed
- Feed composition
- Feeding equipment
- Feeding experiments

### Feeding

- NT: Artificial feeding
- RT: Activity patterns
- Feed
- Feeding behaviour
- Feeding equipment
- Feeding migrations
- Food conversion
- Nutrition

### Feeding behaviour

- BT: Behaviour
- NT: Cannibalism
- Foraging behaviour
- Grazing
- RT: Feeding
- Feeding migrations
- Food chains
- Food preferences
- Heterotrophic organisms
- Predation
- Schooling behaviour
- Trophic levels
- Trophodynamic cycle

### Feeding equipment

- BT: Equipment
- RT: Aquaculture equipment
- Feed preparation
- Feeding

### Feeding experiments

- RT: Artificial feeding
- Dietary deficiencies
- Experimental culture
- Feed
- Feed composition
- Feed efficiency
- Feed preparation
- Nutritional requirements

### Feeding ground

USE: **Nursery grounds**

### Feeding migrations

- BT: Migrations
- RT: Feeding
- Feeding behaviour
- Oceanodromous migrations

### Feldspars

- BT: Silicate minerals
- NT: Orthoclase
- Plagioclase

### Fellowships

- UF: Scholarships
- RT: Education
- Grants
- Research programmes

### Females

- BT: Sex
- NT: Women
- RT: Males

### Fenders

- RT: Ship mooring systems

### Fermentation

- BT: Chemical reactions
- RT: Anaerobic bacteria
- Enzymes
- Fermented products
- Yeasts

### Fermented fish paste

USE: **Fermented products**

### Fermented fish sauce

USE: **Fermented products**

### Fermented products

- SN: Before 1982 search CURED PRODUCTS
- UF: Fermented fish paste
- Fermented fish sauce
- BT: Processed fishery products
- RT: Fermentation
- Minced products

### Ferric compounds

USE: **Iron compounds**

### Ferric phosphate

USE: **Iron phosphates**

### Ferries

USE: **Passenger ships**

### Ferromanganese nodules

- SN: Nodules rich in Mn, Fe, Ni, Co, and Cu. Before 1982 search NODULES
- UF: Manganese nodules
- Polymetallic nodules
- BT: Nodules
- Seabed deposits
- RT: Aluminium
- Cobalt
- Copper
- Ferromanganese oxides
- Gallium
- Iron
- Lead
- Magnesium

### Manganese

- Manganese deposits
- Molybdenum
- Nickel
- Silver
- Titanium
- Vanadium
- Zinc
- Zirconium

### Ferromanganese oxides

- BT: Manganese oxides
- RT: Ferromanganese nodules
- Iron
- Manganese

### Ferrous alloys

- BT: Alloys
- NT: Steel

### Ferrous compounds

USE: **Iron compounds**

### Ferruginous deposits

- BT: Chemical sediments
- RT: Ironstone

### Ferry terminals

- UF: Container ports
- BT: Harbours

### Fertility

- SN: Restricted to environmental quality
- RT: Biological production

### Fertility (reproductive)

USE: **Fecundity**

### Fertility vitamin

USE: **Vitamin E**

### Fertilization (biological)

USE: **Biological fertilization**

### Fertilizers

- SN: Products used for artificial fertilization of soils or aquatic environment
- NT: Chemical fertilizers
- Organic fertilizers
- RT: Habitat improvement (fertilization)
- Nutrients (mineral)

### Festschriften

USE: **Collected papers**

## ASFA THESAURUS

### Fetch

UF: Wave fetch  
RT: Wave parameters  
Wind wave generation  
Wind wave parameters  
Winds

### Fetus

USE: **Foetus**

### Fiber glass

USE: **Fibre glass**

### Fiber optics

USE: **Fibre optics**

### Fiber rope (natural)

USE: **Fibre rope (natural)**

### Fiber rope (synthetic)

USE: **Fibre rope (synthetic)**

### Fibre glass

UF: Fiber glass  
BT: Materials  
RT: Construction materials  
Fibre optics  
Glass  
Glass-reinforced plastics

### Fibre optics

UF: Fiber optics  
BT: Technology  
RT: Fibre glass  
Optics

### Fibre rope (natural)

UF: Fiber rope (natural)  
Natural fibre rope  
BT: Ropes  
RT: Fibre rope (synthetic)

### Fibre rope (synthetic)

UF: Fiber rope (synthetic)  
Synthetic fibre rope  
BT: Ropes  
RT: Fibre rope (natural)  
Synthetic fibres

### Fields

SN: Use of a specific term is recommended  
NT: Baroclinic field  
Barotropic field  
Density field  
Electric fields  
Gravity field  
Hydrothermal fields  
Ice fields  
Light fields  
Pressure field  
Temperature fields

### Filletlets (fish)

USE: **Fish fillets**

### Filletting

BT: Fish handling  
RT: Fish fillets

### Film strips

USE: **Filmstrips**

### Films

SN: Use only for cinema films  
BT: Audiovisual materials  
RT: Filmstrips  
Photography  
Videotape recordings

### Films (surface)

USE: **Surface films**

### Filmstrips

UF: Film strips  
BT: Audiovisual materials  
RT: Films  
Slides (photographic)

### Filoplumes

USE: **Feathers**

### Filter feeders

UF: Suspension feeders  
BT: Heterotrophic organisms  
RT: Bacteria  
Detritus  
Lophophores  
Nannoplankton  
Plankton feeders

### Filters

SN: Use of a more specific term is recommended  
NT: Biofilters  
Kalman filters  
Optical filters  
Water filters  
RT: Filtration

### Filtration

NT: Bacterial filtration  
Water filtration  
RT: Filters  
Screening

### Filtration (water)

USE: **Water filtration**

### Fin ray counts

BT: Meristic counts  
RT: Fins

### Fin rays

USE: **Fins**

### Fin spines

USE: **Fins**

### Financial institutions

UF: Banks (financial)  
Institutions (financial)  
BT: Organizations  
RT: Financial resources  
Financing

### Financial management

UF: Business management  
Credit management  
Investment management  
BT: Management  
RT: Financial resources  
Financing

### Financial means

USE: **Financial resources**

### Financial resources

UF: Capital resources  
Financial means  
BT: Resources  
RT: Financial institutions  
Financial management  
Financing

### Financing

UF: Funding  
RT: Financial institutions  
Financial management  
Financial resources  
Grants  
Insurance  
Investments  
Marketing  
Pricing

### Fine structure (biology)

USE: **Ultrastructure**

### Fine structure (ocean)

USE: **Finestructure**

### Finestructure

SN: Variations in the vertical distribution of temperature, salinity and velocity with layer scales ranging from 1-100 cm  
UF: Fine structure (ocean)  
Finestructure (ocean)  
BT: Spatial variations  
RT: CTD observations  
CTD profilers  
Microstructure  
Vertical profiles

### Finestructure (biology)

USE: **Ultrastructure**

## ASFA THESAURUS

Finestructure (ocean)  
USE: **Finestructure**

### **Finfish fisheries**

BT: Fisheries  
NT: Clupeoid fisheries  
Flatfish fisheries  
Gadoid fisheries  
Mackerel fisheries  
Mullet fisheries  
Percoid fisheries  
Redfish fisheries  
Salmon fisheries  
Shark fisheries  
Tuna fisheries  
RT: Demersal fisheries  
Estuarine fisheries  
Marine fisheries  
Pelagic fisheries

Finfish nutrition  
USE: **Animal nutrition**

Finger bars  
USE: **Transverse bars**

### **Fingerlings**

BT: Fish larvae  
RT: Fry  
Seed (aquaculture)

### **Fingerprinting**

**Finite amplitude waves**  
BT: Nonlinear waves

### **Finite difference method**

BT: Numerical analysis  
RT: Approximation

### **Finite element method**

BT: Numerical analysis  
RT: Boundary value problems  
Differential equations  
Functional analysis

### **Fins**

UF: Fin rays  
Fin spines  
BT: Locomotory appendages  
NT: Bony fins  
RT: Fin ray counts  
Swimming

Fiord dynamics  
USE: **Fjord dynamics**

Fiords  
USE: **Fjords**

### **Fire**

RT: Blowouts  
Damage

Explosions  
Fire fighting  
Fire hazards  
Fire prevention  
Ship losses  
Smoke

Fire control  
USE: **Fire fighting**

### **Fire extinguishers**

UF: Chemicals (fire fighting)  
RT: Fire fighting  
Safety devices

### **Fire fighting**

UF: Fire control  
RT: Emergency vessels  
Fire  
Fire extinguishers

### **Fire hazards**

BT: Hazards  
RT: Blowouts  
Fire  
Fire prevention  
Oil spills

### **Fire prevention**

UF: Fire protection  
Fire safety  
RT: Fire  
Fire hazards  
Safety regulations

Fire protection  
USE: **Fire prevention**

Fire safety  
USE: **Fire prevention**

### **Fish**

SN: Use of a more specific term is recommended. Used only for general papers dealing with fish of all kinds; always use taxonomic name where given

UF: Fishes  
BT: Aquatic animals  
NT: Air breathing fish

Bait fish  
Brackishwater fish  
Food fish  
Forage fish  
Freshwater fish  
Game fish  
Herbivorous fish  
Marine fish  
Ornamental fish  
Poisonous fish  
Trash fish  
Tropical fish

RT: Fish culture  
Fish diseases  
Fish handling  
Fish inspection  
Fish kill  
Fish physiology  
Fish poisoning  
Fish repellents  
Fish wastes  
Ichthyology  
Shellfish

Fish (towed sensors)  
USE: **Towed sensors**

Fish attracting  
USE: **Attracting techniques**

Fish balls  
USE: **Minced products**

**Fish catch statistics**  
SN: Catch tabulation of fish by number or weight  
BT: Catch statistics  
RT: By catch  
Fish conversion factors

**Fish consumption**  
UF: Fish consumption statistics  
RT: Food fish  
Human food

Fish consumption statistics  
USE: **Fish consumption**

Fish conversion  
USE: **Fish handling**

**Fish conversion factors**  
BT: Population factors  
RT: Fish catch statistics

**Fish counters**  
UF: Echo counting systems  
Fish counting devices  
BT: Counters  
RT: Acoustic equipment  
Echo integrators

Fish counting devices  
USE: **Fish counters**

**Fish culture**  
SN: Methods and techniques for fish culture  
UF: Fish farms  
Pisciculture  
BT: Cultures  
NT: Bait culture

(cont'd)



## ASFA THESAURUS

### *Fish culture (cont'd)*

RT: Agropisciculture  
 Aquarium culture  
 Brackishwater aquaculture  
 Cage culture  
 Extensive culture  
 Fish  
 Freshwater aquaculture  
 Hybrid culture  
 Intensive culture  
 Marine aquaculture  
 Monoculture  
 Monosex culture  
 Polyculture  
 Pond culture  
 Raceway culture  
 Rice field aquaculture  
 Silo culture  
 Thermal aquaculture  
 Wastewater aquaculture

Fish culture diseases  
 USE: **Husbandry diseases**

Fish culture economics  
 USE: **Aquaculture economics**

### **Fish detection**

UF: Fish location  
 BT: Detection  
 RT: Fishing  
 Sonar detection  
 Target strength

### **Fish diseases**

UF: Shellfish diseases  
 BT: Animal diseases  
 NT: Boil disease  
 Bubble disease  
 Gill disease  
 Peduncle disease  
 Redmouth disease  
 Sunburn  
 Ulcerative dermal necrosis  
 Vibriosis  
 Whirling disease  
 RT: Fish  
 Fish kill  
 Fish physiology  
 Husbandry diseases  
 Parasitic diseases  
 Protozoan diseases  
 Septicaemia  
 Tuberculosis  
 Viral diseases

Fish dressing  
 USE: **Dressing**

Fish drying  
 USE: **Drying**

### **Fish eggs**

BT: Eggs  
 RT: Fish larvae  
 Ichthyoplankton

### Fish farms

USE: **Fish culture**

### **Fish fillets**

UF: Block fillets  
 Fillets (fish)  
 Side fillets  
 BT: Processed fishery products  
 RT: Filletting  
 Gutting

### **Fish flour**

SN: Fish meal prepared for human consumption. Before 1982 search  
**POWDERED PRODUCTS**  
 UF: Fish protein concentrate  
 BT: Fish meal

### Fish food organisms

USE: **Food organisms**

### Fish fry collection

USE: **Seed collection**

### Fish furunculosis

USE: **Boil disease**

### **Fish glue**

SN: Gelatinous liquid glue from fish waste  
 BT: Adhesives  
 Processed fishery products  
 RT: Fish wastes

### Fish grading

USE: **Grading**

### **Fish handling**

UF: Fish conversion  
 Unloading  
 BT: Handling  
 NT: Dressing  
 Filletting  
 Heading  
 RT: Fish  
 Processing fishery products

### Fish hooks

USE: **Hooks**

### Fish impingement

USE: **Impingement**

### **Fish inspection**

SN: Monitoring of fish and fishery products quality control

BT: Inspection

RT: Fish  
 Fish inspection regulations  
 Fishery products

### **Fish inspection regulations**

BT: Commercial legislation  
 RT: Codex standards  
 Fish inspection

### **Fish kill**

SN: Excessive or conspicuous mortalities of fish due to several causes  
 UF: Mass mortality  
 NT: Winterkill  
 RT: Fish  
 Fish diseases  
 Mass extinctions  
 Mortality causes

### **Fish larvae**

UF: Ammocetes  
 Leptocephalus  
 BT: Larvae  
 NT: Fingerlings  
 Fry  
 RT: Fish eggs  
 Ichthyoplankton

### Fish location

USE: **Fish detection**

### **Fish meal**

SN: Before 1982 search  
**POWDERED PRODUCTS**  
 BT: Powdered products  
 NT: Fish flour  
 RT: Fish meal processing  
 Fish wastes  
 Organic fertilizers

### **Fish meal processing**

BT: Processing fishery products  
 RT: Fish meal

### Fish mince

USE: **Minced products**

### Fish nutrition

USE: **Animal nutrition**

### **Fish oil extraction**

BT: Animal oil extraction  
 RT: Fish oils

### **Fish oils**

SN: Oils extracted from fish, fish liver, fish wastes and marine mammals

(cont'd)

## ASFA THESAURUS

### *Fish oils (cont'd)*

UF: Oils (fish)  
Sperm oils  
BT: Processed fishery products  
RT: Byproducts  
Fish oil extraction  
Fish wastes  
Stickwater

Fish paste  
USE: **Minced products**

Fish pathology  
USE: **Pathology**

**Fish physiology**  
SN: Before 1982 search  
PHYSIOLOGY  
UF: Physiology (fish)  
BT: Animal physiology  
RT: Fish  
Fish diseases  
Ichthyology

Fish plants  
USE: **Fishery industry plants**

**Fish poisoning**  
SN: Capture of fish or other aquatic animals by use of poisons of different origin  
UF: Poison fishing  
Poisoning  
Shellfish poisoning (catching method)  
BT: Catching methods  
RT: Fish  
Stupefying methods

Fish pond culture  
USE: **Pond culture**

**Fish ponds**  
UF: Farm ponds  
BT: Ponds  
NT: Breeding ponds  
Growing ponds  
Stocking ponds  
RT: Aquaculture facilities  
Enclosures  
Hatcheries  
Pond culture  
Small scale aquaculture

Fish products  
USE: **Fishery products**

Fish protein concentrate  
USE: **Fish flour**

**Fish pumps**  
SN: Used for unloading small fish.

Before 1982 search  
HARVESTING MACHINES  
BT: Pumps  
RT: Harvesting machines

Fish rearing ponds  
USE: **Nursery ponds**

**Fish repellents**  
UF: Shark repellents  
BT: Repellents  
RT: Fish

Fish resources  
USE: **Fishery resources**

Fish roe  
USE: **Roes**

Fish scales  
USE: **Scales**

Fish scientists  
USE: **Ichthyologists**

Fish screens  
USE: **Screens**

Fish seed  
USE: **Seed (aquaculture)**

**Fish silage**  
UF: Liquid fish products  
Silage from fish

**Fish sizing**  
UF: Acoustic sizing techniques  
RT: Echo surveys  
Target strength

Fish solubles  
USE: **Stickwater**

Fish sounds  
USE: **Biological noise**

**Fish spoilage**  
UF: Spoilage (fish)  
RT: Quality control

Fish stocks  
USE: **Stocks**

**Fish storage**  
SN: Before 1982 search STORAGE  
UF: Storage (fish)  
BT: Storage  
NT: Live storage  
RT: Cold storage

Fish tracking  
USE: **Tracking**

Fish traps  
USE: **Trap nets**

**Fish utilization**  
NT: Shark utilization  
RT: Fishery products  
Processing fishery products

Fish waste utilization  
USE: **Waste utilization**

**Fish wastes**  
BT: Organic wastes  
RT: Fish  
Fish glue  
Fish meal  
Fish oils  
Stickwater

Fish-cum-chicken culture  
USE: **Agropisciculture**

Fish-cum-duck culture  
USE: **Agropisciculture**

Fish-cum-pig culture  
USE: **Agropisciculture**

**Fisheries**  
UF: Capture fisheries  
Commercial fisheries  
NT: Bait fisheries  
Canoe fisheries  
Carangid fisheries  
Coastal fisheries  
Demersal fisheries  
Estuarine fisheries  
Finfish fisheries  
Inland fisheries  
Marine fisheries  
Multispecies fisheries  
Roe fisheries  
Shellfish fisheries  
Sponge fisheries  
Turtle fisheries  
RT: Fishery development  
Fishery management  
Fishery resources  
Fishing  
Fishing grounds

Fisheries biology  
USE: **Fishery biology**

Fisheries data  
USE: **Fishery data**

Fisheries hydrography  
USE: **Fishery oceanography**

Fisheries institutions  
USE: **Fishery institutions**

## ASFA THESAURUS

Fisheries management  
USE: **Fishery management**

Fisheries organizations  
USE: **Fishery organizations**

Fisheries regulations  
USE: **Fishery regulations**

Fisheries resources  
USE: **Fishery resources**

Fisheries sciences  
USE: **Fishery sciences**

Fisheries statistics  
USE: **Fishery statistics**

**Fishermen**  
RT: Fishermen statistics

**Fishermen statistics**  
BT: Fishery statistics  
RT: Fishermen

**Fishery biologists**  
BT: Biologists  
RT: Algologists  
Carcinologists  
Fishery biology  
Ichthyologists  
Malacologists

**Fishery biology**  
SN: Scientific complex of different disciplines applied to biological research in fisheries  
UF: Fisheries biology  
BT: Biology  
Fishery sciences  
RT: Fishery biologists  
Fishery limnology  
Fishery oceanography  
Hydrobiology  
Ichthyology

**Fishery boundaries**  
BT: Boundaries  
RT: Contiguous zones  
Exclusive economic zone  
Fishery disputes

**Fishery charts**  
SN: Charts for use in fishery operations including graphical descriptions of fishing grounds  
BT: Maps  
RT: Fishery surveys

Fishery conflicts  
USE: **Fishery disputes**

Fishery cooperatives  
USE: **Cooperatives**

**Fishery data**  
SN: Restricted to fishery operation data  
UF: Fisheries data  
BT: Data  
RT: Catch statistics  
Catch/effort  
Fishery statistics  
Fishing effort  
Fishing power  
Fishing time

**Fishery development**  
BT: Resource development  
RT: Development projects  
Fisheries  
Fishery industry  
Fishery institutions  
Fishery organizations  
Fishery policy  
Fishery sciences

**Fishery disputes**  
UF: Fishery conflicts  
Fishery litigation  
BT: Disputes  
RT: Fishery boundaries  
Fishery policy  
Fishery protection  
Fishery regulations  
Fishing rights  
Foreign fishing  
Illegal fishing

**Fishery economics**  
SN: Economics of all aspects of fisheries, exploitation, production, processing, marketing, distribution, trade etc.  
BT: Economics  
Fishery sciences  
NT: Aquaculture economics  
Capture fishery economics  
RT: Fishery management  
Fishery policy

**Fishery engineering**  
BT: Engineering  
Fishery sciences  
RT: Aquaculture engineering  
Catching methods  
Gear research

**Fishery industry**  
SN: Including any industries of fishery products obtained by handling or processing methods  
UF: Fishing industry

BT: Industries  
RT: Commercial fishing  
Fishery development  
Fishery industry equipment  
Fishery industry legislation  
Fishery industry plants  
Fishery policy  
Fishery products  
Packing fishery products  
Processing fishery products

**Fishery industry equipment**  
SN: Industrial equipment used for handling and processing fishery products  
BT: Equipment  
NT: Fishing gear  
RT: Factory ships  
Fishery industry  
Fishery industry plants  
Fishing vessels

**Fishery industry legislation**  
BT: Legislation  
RT: Fishery industry

**Fishery industry plants**  
UF: Fish plants  
RT: Factory ships  
Fishery industry  
Fishery industry equipment

**Fishery institutions**  
UF: Fisheries institutions  
Fishery research institutions  
BT: Research institutions  
RT: Fishery development  
Fishery organizations  
Fishery sciences  
Limnological institutions  
Oceanographic institutions

Fishery laws  
USE: **Fishery regulations**

Fishery legislation  
USE: **Fishery regulations**

**Fishery limnology**  
BT: Fishery sciences  
Limnology  
RT: Fishery biology  
Freshwater ecology  
Lake fisheries

Fishery litigation  
USE: **Fishery disputes**

**Fishery management**  
UF: Fisheries management  
(cont'd)

## ASFA THESAURUS

### *Fishery management (cont'd)*

BT: Resource management  
RT: Fisheries  
    Fishery economics  
    Fishery policy

### **Fishery oceanography**

SN: Applied investigations on oceanic conditions of fishing regions or grounds  
UF: Fisheries hydrography  
BT: Fishery sciences  
    Oceanography  
RT: Fishery biology  
    Hydrography

### **Fishery organizations**

UF: Fisheries organizations  
BT: Organizations  
RT: Cooperatives  
    Fishery development  
    Fishery institutions  
    Fishery policy  
    Fishery regulations

### **Fishery policy**

UF: Fishing policy  
BT: Policies  
RT: Allocation systems  
    Fishery development  
    Fishery disputes  
    Fishery economics  
    Fishery industry  
    Fishery management  
    Fishery organizations  
    Fishery protection  
    Fishery regulations  
    Fishing rights  
    Foreign fishing

### **Fishery products**

UF: Fish products  
    Primary fishery products  
    Seafood products  
BT: Products  
NT: Processed fishery products  
RT: Aquaculture products  
    Fish inspection  
    Fish utilization  
    Fishery industry  
    Packing fishery products

Fishery products statistics

USE: **Industrial products statistics**

### **Fishery protection**

SN: Measures against illegal fishing by foreign vessels in EEZ, territorial waters or protected fisheries  
BT: Protection  
RT: Exclusive economic zone

Fishery disputes  
Fishery policy  
Fishery regulations  
Fishing rights  
Foreign fishing  
Illegal fishing  
Protection vessels  
Surveillance and enforcement

Fishery protection vessels

USE: **Protection vessels**

### **Fishery regulations**

SN: Regulations on national rights to fisheries and legislative management of fisheries resources  
UF: Fisheries regulations  
    Fishery laws  
    Fishery legislation  
BT: Legislation  
NT: Mesh regulations  
    Quota regulations  
    Season regulations  
    Size-limit regulations  
    Whaling regulations  
RT: Exclusive economic zone  
    Fishery disputes  
    Fishery organizations  
    Fishery policy  
    Fishery protection  
    Fishing rights  
    Maritime legislation

Fishery research institutions

USE: **Fishery institutions**

### **Fishery resources**

UF: Fish resources  
    Fisheries resources  
BT: Living resources  
RT: Aquatic animals  
    Aquatic plants  
    Fisheries  
    Fishery surveys  
    Stocks

### **Fishery sciences**

UF: Fisheries sciences  
NT: Fishery biology  
    Fishery economics  
    Fishery engineering  
    Fishery limnology  
    Fishery oceanography  
RT: Fishery development  
    Fishery institutions  
    Fishery technology  
    Marine sciences

### **Fishery statistics**

SN: Including statistical tabulation of data

UF: Fisheries statistics  
BT: Statistics  
NT: Aquaculture statistics  
    Catch statistics  
    Fishermen statistics  
    Fishing vessels statistics  
    Industrial products statistics  
    Landing statistics  
    Sport fishing statistics  
RT: Fishery data

### **Fishery surveys**

BT: Surveys  
RT: Aerial surveys  
    Echo surveys  
    Fishery charts  
    Fishery resources  
    Ichthyoplankton surveys  
    Stock assessment

### **Fishery technology**

SN: Scientific research and industrial techniques applied to fishery industry  
BT: Technology  
RT: Catching methods  
    Fishery sciences  
    Fishing technology

Fishes

USE: **Fish**

### **Fishing**

SN: Use of a more specific term is recommended; consult terms listed below. Before 1995 search also FISHING OPERATIONS

UF: Fishing operations  
NT: Artisanal fishing  
    Bait fishing  
    Commercial fishing  
    Experimental fishing  
    Exploratory fishing  
    Fee fishing  
    Ice fishing  
    Intermediate fishing  
    Line fishing  
    Sport fishing  
    Trap fishing  
RT: Catching methods  
    Fish detection  
    Fisheries  
    Fishing gear  
    Fishing grounds  
    Fishing technology  
    Fishing vessels

Fishing bait

USE: **Bait**

## ASFA THESAURUS

### **Fishing barriers**

SN: Before 1982 search  
BARRIERS  
UF: Barriers (fishing)  
BT: Barriers  
RT: Coastal fisheries  
Lagoon fisheries

### **Fishing buoys**

BT: Buoys  
RT: Fishing gear  
Radio buoys

### **Fishing by diving**

BT: Catching methods  
RT: Diving  
Pearl fisheries  
Sponge fisheries

### **Fishing craft**

USE: **Fishing vessels**

### **Fishing effort**

UF: Fishing effort statistics  
RT: Catch statistics  
Catch/effort  
Fishery data  
Fishing power  
Fishing time

### **Fishing effort statistics**

USE: **Fishing effort**

### **Fishing gear**

SN: Technical description of gear  
used mainly for commercial  
fishing purposes  
BT: Fishery industry equipment  
NT: Dredges  
Electrified gear  
Fishing nets  
Grappling gear  
Harvesting machines  
Lines  
Pots  
Wounding gear  
RT: Catching methods  
Fishing  
Fishing buoys  
Fishing power  
Fishing vessels  
Gear construction  
Gear materials  
Gear research  
Gear selectivity  
Winches

### **Fishing grounds**

RT: Fisheries  
Fishing  
Fishing rights

Spawning grounds  
Submarine banks

### **Fishing harbours**

BT: Harbours

### **Fishing industry**

USE: **Fishery industry**

### **Fishing injuries**

USE: **Injuries**

### **Fishing licenses**

USE: **Fishing rights**

### **Fishing methods**

USE: **Catching methods**

### **Fishing mortality**

UF: Fishing mortality coefficient  
BT: Mortality  
RT: Overfishing  
Total mortality  
Vulnerability  
Yield

### **Fishing mortality coefficient**

USE: **Fishing mortality**

### **Fishing nets**

BT: Fishing gear  
Nets  
NT: Cast nets  
Entangling nets  
Gillnets  
Lift-nets  
Seine nets  
Surrounding nets  
Trap nets  
Trawl nets  
RT: Nekton collecting devices  
Net fishing  
Plankton collecting devices

### **Fishing operations**

USE: **Fishing**

### **Fishing overexploitation**

USE: **Overfishing**

### **Fishing policy**

USE: **Fishery policy**

### **Fishing power**

RT: Catch/effort  
Fishery data  
Fishing effort  
Fishing gear  
Fishing time

### **Fishing rights**

SN: The legal right of fishing in a

given place at a given time  
UF: Customary fishing rights  
Exclusive fishing rights  
Fishing licenses  
BT: Rights  
RT: Contiguous zones  
Exclusive economic zone  
Exclusive rights  
Extended jurisdiction  
Fishery disputes  
Fishery policy  
Fishery protection  
Fishery regulations  
Fishing grounds  
Foreign fishing  
Territorial waters

### **Fishing seasons**

USE: **Season regulations**

### **Fishing technology**

SN: Before 1982 search  
CATCHING METHODS  
BT: Technology  
RT: Catching methods  
Experimental fishing  
Fishery technology  
Fishing

### **Fishing time**

RT: Catch statistics  
Fishery data  
Fishing effort  
Fishing power  
Landing statistics

### **Fishing vessels**

UF: Fishing craft  
NT: Gillnetters  
Liners  
Seiners  
Trawlers  
RT: Factory ships  
Fishery industry equipment  
Fishing  
Fishing gear  
Fishing vessels statistics  
Mother ships  
Support ships  
Surface craft  
Work platforms

### **Fishing vessels statistics**

SN: Statistical data tabulated by  
types of vessels and size  
categories  
BT: Fishery statistics  
RT: Fishing vessels

## ASFA THESAURUS

### **Fishways**

BT: Guiding devices  
RT: Anadromous migrations  
Dams  
Habitat improvement (physical)  
Screens  
Water reservoirs

### **Fission products**

UF: Debris (nuclear)  
BT: Radioactive materials  
RT: Fallout  
Isotopes  
Nuclear explosions

### **Fixation**

SN: Fixation methods used to kill  
and preserve aquatic animal and  
vegetal organisms for  
laboratory purposes  
UF: Conservation (organisms)  
Preservation (organisms)  
RT: Anaesthetics  
Fixatives  
Preservatives

### **Fixatives**

UF: Fixing agents  
RT: Chemical compounds  
Cytology  
Fixation  
Histology

### **Fixed platforms**

SN: Membered structures,  
permanently attached to the sea  
floor, with the working level  
above water  
UF: Fixed structures  
BT: Offshore structures  
NT: Gravity platforms  
Guyed towers  
Piled platforms  
Tension leg platforms  
RT: Mobile platforms  
Work platforms

### **Fixed stations**

BT: Oceanographic stations  
NT: Inshore stations  
Ocean stations  
RT: Monitoring systems  
Standard ocean sections  
Time series

### **Fixed structures**

USE: **Fixed platforms**

### **Fixing agents**

USE: **Fixatives**

### **Fixing position**

USE: **Position fixing**

### **Fjord dynamics**

SN: Water motion in fjords  
UF: Fiord dynamics  
BT: Shelf dynamics  
RT: Fjords

### **Fjords**

UF: Fiords  
Fyords  
BT: Coastal inlets  
RT: Drowned valleys  
Estuaries  
Fjord dynamics  
Fossil sea water  
Glacial features  
Inlets (waterways)  
Sill depth  
Sills  
Submerged shorelines

### **Flagella**

SN: Before 1982 search CILIA  
UF: Flagellum  
RT: Animal appendages  
Cilia  
Locomotory appendages

### **Flagellum**

USE: **Flagella**

### **Flaring**

USE: **Gas flaring**

### **Flatfish fisheries**

UF: Flounder fisheries  
Halibut fisheries  
Plaice fisheries  
Sole fisheries  
BT: Finfish fisheries  
RT: Longlining  
Trawling

### **Flavor**

USE: **Taste**

### **Flavour**

USE: **Taste**

### **Flavour tests**

USE: **Taste tests**

### **Flaw detection**

USE: **Nondestructive testing**

### **Flaws**

USE: **Defects**

### **Flexibility**

UF: Rigidity

### **BT: Mechanical properties**

RT: Deformation  
Elasticity  
Poisson's ratio

### **Flight behaviour**

UF: Bird flight behaviour  
BT: Behaviour  
RT: Aquatic birds  
Flying

### **Floating**

RT: Ballast  
Capsizing

### **Floating barriers**

UF: Booms  
Oil booms  
BT: Barriers

### **Floating cages**

BT: Cages

### **Floating hoses**

BT: Hoses  
RT: Loading buoys  
Tanker loading

### **Floating ice**

BT: Ice  
NT: Fast ice  
Ice islands  
Ice shelves  
Icebergs  
Pack ice  
RT: Ice caps  
Ice jams  
Lake ice  
Leads  
Polynyas  
Sea ice

### **Floating structures**

BT: Offshore structures  
NT: Mobile platforms  
Pontoon  
RT: Barges  
Buoy systems  
Ice rafts  
Surface craft  
Tension leg platforms

### **Floating trawls**

USE: **Midwater trawls**

### **Floats (buoyancy)**

USE: **Buoyancy floats**

### **Floats (current measurement)**

USE: **Drifters**

## ASFA THESAURUS

Floats (subsurface)  
USE: **Subsurface drifters**

### **Flocculation**

BT: Chemical precipitation  
RT: Colloids  
Coprecipitation  
Deflocculation  
Sewage treatment  
Suspended particulate matter  
Suspension

### **Flood control**

UF: Flood prevention  
BT: Control  
RT: Dams  
Embankments  
Erosion control  
Flood forecasting  
Flood plains  
Floods  
Hydraulic engineering  
River basin management  
Stream flow  
Water management  
Water reservoirs  
Watersheds

### **Flood currents**

BT: Tidal currents  
RT: High tide  
Tidal cycles

### **Flood forecasting**

UF: Flood predictions  
BT: Prediction  
RT: Flood control  
Floods

### **Flood plains**

UF: Floodplains  
BT: Landforms  
RT: Alluvial deposits  
Deltas  
Flood control  
Floods  
Fluvial features  
Fluvial morphology  
Levees  
Plains  
River meanders  
River valleys  
Rivers

Flood predictions  
USE: **Flood forecasting**

Flood prevention  
USE: **Flood control**

### **Flooding**

UF: Intentional inundation

Inundation  
RT: Floods  
Storm surges  
Tsunamis  
Wave effects  
Wetlands

Flooding (disasters)  
USE: **Floods**

Flooding (irrigation)  
USE: **Irrigation**

Floodplains  
USE: **Flood plains**

### **Floods**

UF: Escape of water  
Flooding (disasters)  
BT: Weather hazards  
RT: Disasters  
Flood control  
Flood forecasting  
Flood plains  
Flooding  
Geological hazards  
Storm surges  
Tsunamis  
Water levels

Floor (ocean)  
USE: **Ocean floor**

### **Flora**

UF: Plants  
NT: Aquatic plants  
Riparian vegetation  
Weeds  
RT: Biota  
Vegetation cover

### **Flotation**

SN: Including flotation mechanisms  
RT: Buoyancy  
Coagulation  
Displacement  
Hydrostatic behaviour  
Surface properties  
Surface tension  
Swim bladder

### **Flotsam**

SN: Floating wreckage  
UF: Jetsam  
RT: Solid impurities  
Surface drifters  
Wrecks

Flounder fisheries  
USE: **Flatfish fisheries**

Flow around immersed structure  
USE: **Flow around objects**

### **Flow around objects**

UF: Flow around immersed structure  
BT: Fluid flow  
RT: Current scouring  
Lee eddies  
Wave forces

### **Flow cytometry**

Flow in channels  
USE: **Channel flow**

### **Flow measurement**

SN: Before 1984 search also  
FLUID FLOW  
MEASUREMENT  
BT: Measurement  
NT: Current measurement  
Turbulence measurement  
Wind measurement  
RT: Flow measuring equipment  
Fluid flow

### **Flow measuring equipment**

BT: Measuring devices  
NT: Current measuring equipment  
Flowmeters  
Wind measuring equipment  
RT: Flow measurement  
Fluid flow

### **Flow over surfaces**

SN: Use of a more specific term is recommended  
BT: Fluid flow  
NT: Air flow over land  
Air flow over water  
RT: Topographic effects

Flow over water surface  
USE: **Air flow over water**

Flow sensors  
USE: **Flowmeters**

### **Flow structures**

BT: Sedimentary structures  
RT: Slumping  
Turbidity current structures

### **Flowlines**

SN: Pipelines from underwater wellheads to manifolds or riser pipes  
BT: Pipelines  
RT: Gathering lines

(cont'd)

## ASFA THESAURUS

### *Flowlines (cont'd)*

Manifolds  
Riser pipes  
Wellheads

### **Flowmeters**

UF: Flow sensors  
BT: Flow measuring equipment  
RT: Anemometers  
Channel flow  
Current meters  
Current sensors  
Current velocity  
Thermistors  
Wind measuring equipment

### **Fluid dynamics**

BT: Dynamics  
Fluid mechanics  
NT: Aerodynamics  
RT: Atmospheric motion  
Equation of continuity  
Fluid motion  
Water motion

### **Fluid flow**

BT: Fluid motion  
NT: Ageostrophic flow  
Channel flow  
Critical flow  
Density flow  
Flow around objects  
Flow over surfaces  
Geostrophic flow  
Horizontal motion  
Hydrothermal flow  
Jets  
Laminar flow  
Multiphase flow  
Percolation  
Plumes  
Potential flow  
Shear flow  
Stratified flow  
Turbulent flow  
RT: Flow measurement  
Flow measuring equipment  
Fluids  
Froude number  
Oscillatory flow  
Water currents  
Winds

### **Fluid mechanics**

SN: Before 1982 search  
HYDRODYNAMICS  
BT: Mechanics  
NT: Fluid dynamics  
Hydrodynamics  
Hydrostatics  
RT: Dynamical oceanography

Fluid motion  
Fluids

### **Fluid motion**

SN: Before 1982 search  
HYDRODYNAMICS  
BT: Motion  
NT: Baroclinic motion  
Barotropic motion  
Billows  
Fluid flow  
Langmuir circulation  
Turbulent entrainment  
Unidirectional flow  
Unsteady flow  
RT: Anticyclonic motion  
Current meandering  
Dynamical oceanography  
Fluid dynamics  
Fluid mechanics  
Meandering  
Planetary waves  
Residual flow  
Rotating fluids  
Stream flow  
Tidal motion  
Vertical motion  
Vortices  
Water circulation  
Water currents  
Wave motion

### **Fluid mud**

BT: Mud  
RT: Fluidization

### **Fluidization**

BT: Phase changes  
NT: Liquefaction  
RT: Fluid mud  
Fluidized sediment flow  
Fluids  
Grain flow  
Slumping

### **Fluidized sediment flow**

BT: Sediment gravity flows  
NT: Liquefied sediment flow  
RT: Cohesionless sediments  
Fluidization  
Pore pressure  
Pore water

### **Fluids**

SN: Use of a more specific term is recommended  
NT: Body fluids  
Drilling fluids  
Gases  
Liquids  
Non-Newtonian fluids  
Rotating fluids

RT: Fluid flow  
Fluid mechanics  
Fluidization

### **Flumes**

BT: Laboratory equipment  
RT: Channels  
Wave tanks

### **Fluorescence**

BT: Luminescence  
RT: Biological properties  
Bioluminescence  
Fluorescence microscopy  
Fluorescence spectroscopy  
Fluorimeters  
Immunofluorescence  
Light scattering  
Phosphorescence

### **Fluorescence microscopy**

BT: Microscopy  
RT: Fluorescence  
Radiography

### **Fluorescence spectroscopy**

UF: Atomic fluorescence spectroscopy  
BT: Spectroscopic techniques  
RT: Fluorescence

### **Fluorides**

BT: Fluorine compounds  
RT: Halides

### **Fluorimeters**

UF: Fluorometers  
RT: Fluorescence  
Light measuring instruments

### **Fluorinated hydrocarbons**

BT: Halogenated hydrocarbons  
NT: Freons

### **Fluorine**

BT: Halogens  
RT: Fluorine compounds  
Fluorite

### **Fluorine compounds**

BT: Halogen compounds  
NT: Fluorides  
RT: Brines  
Chloric acid  
Chlorine compounds  
Chlorinity  
Dissolved salts  
Fluorine  
Organic compounds



## ASFA THESAURUS

### **Fluorite**

BT: Halide minerals  
RT: Fluorine

Fluorometers

USE: **Fluorimeters**

### **Flushing**

RT: Flushing time  
Tidal inlets

### **Flushing time**

RT: Estuarine dynamics  
Flushing  
Lake dynamics  
Pollutants  
Renewal  
Residence time

Flute casts

USE: **Current marks**

Fluvial deposition features

USE: **Fluvial features**

### **Fluvial deposits**

RT: Fluvial features  
Fluvial sedimentation  
Fluvial transport

### **Fluvial features**

UF: Fluvial deposition features  
RT: Alluvial fans  
Bed forms  
Channels  
Deltas  
Deposition features  
Flood plains  
Fluvial deposits  
Fluvial morphology  
Levees  
River basins  
River meanders  
River valleys  
Rivers

### **Fluvial morphology**

UF: River morphology  
BT: Geomorphology  
RT: Alluvial deposits  
Deltas  
Distributaries  
Flood plains  
Fluvial features  
Fluvial transport  
River banks  
River beds  
River engineering  
River meanders  
River valleys  
Rivers

Terraces

Tributaries

### **Fluvial sedimentation**

BT: Sedimentation  
RT: Alluvial deposits  
Deltaic deposits  
Fluvial deposits  
Fluvial transport  
Rivers  
Sedimentary environments

### **Fluvial transport**

BT: Sediment transport  
RT: Alluvial deposits  
Channel flow  
Fluvial deposits  
Fluvial morphology  
Fluvial sedimentation  
River discharge  
Rivers

### **Fly ash**

BT: Ashes  
RT: Air pollution  
Atmospheric particulates

Flyfishing

USE: **Sport fishing**

### **Flying**

UF: Bird flying  
BT: Locomotion  
RT: Aquatic birds  
Flight behaviour

### **Flysch**

BT: Clastics  
RT: Terrigenous sediments

### **Foams**

SN: Including foaming phenomena  
on the surface of water bodies  
RT: Air bubbles  
Capillarity  
Colloids  
Surface chemistry  
Whitecaps

### **Foetus**

UF: Fetus  
BT: Embryos  
RT: Parturition  
Placenta

### **Fog**

UF: Advection fog  
Arctic sea smoke  
Evaporation fog  
Mist  
Radiation fog  
Sea fog

Sea mist

Sea smoke

Steam fog

BT: Clouds

RT: Dew point

Haze

Upwelling

Visibility

Weather

### **Folds**

UF: Folds (geology)  
BT: Geological structures  
NT: Anticlines  
Geosynclines  
Nappes  
Structural domes  
Synclines  
RT: Rock deformation

Folds (geology)

USE: **Folds**

### **Food**

SN: Use of a more specific term is  
recommended  
NT: Human food  
Livestock food  
RT: Food absorption  
Food additives  
Food availability  
Food composition  
Food consumption  
Food conversion  
Food fish  
Food poisoning  
Food technology  
Food webs  
Nutrition  
Nutritive value

### **Food absorption**

UF: Absorption (food)  
RT: Digestion  
Food  
Nutrition

### **Food additives**

UF: Food colours  
Food stabilizers  
BT: Additives  
RT: Antioxidants  
Food  
Food composition  
Food technology  
Vitamins

### **Food availability**

BT: Availability  
RT: Biotic factors  
Biotic pressure

(cont'd)

## ASFA THESAURUS

### *Food availability (cont'd)*

Competition  
Environmental factors  
Food  
Food chains  
Food consumption  
Food organisms  
Starvation

### **Food chains**

BT: Food webs  
RT: Bioenergetics  
Decomposers  
Feeding behaviour  
Food availability  
Food organisms  
Grazing  
Trophic levels

### Food colours

USE: **Food additives**

### **Food composition**

SN: Chemical composition of  
industrial aquatic products for  
human and animal consumption  
BT: Chemical composition  
RT: Food  
Food additives  
Food conversion  
Food technology  
Nutritive value

### **Food consumption**

UF: Food consumption rate  
RT: Animal nutrition  
Bioenergetics  
Calories  
Digestion  
Ecological efficiency  
Food  
Food availability  
Nutritional requirements  
Stomach content

### Food consumption rate

USE: **Food consumption**

### **Food conversion**

SN: Efficiency of food conversion  
by organisms  
UF: Assimilation (food)  
Conversion efficiency  
Food conversion rate  
RT: Animal nutrition  
Digestion  
Feeding  
Food  
Food composition

### Food conversion rate

USE: **Food conversion**

### Food cycle

USE: **Trophodynamic cycle**

### **Food fish**

UF: Edible fish  
BT: Fish  
RT: Fish consumption  
Food  
Food organisms

### Food for human consumption

USE: **Human food**

### **Food organisms**

UF: Fish food organisms  
Live feed  
Live food  
Natural food  
BT: Aquatic organisms  
RT: Aquatic insects  
Food availability  
Food chains  
Food fish  
Forage fish  
Phytoplankton  
Zooplankton

### **Food poisoning**

RT: Allergic reactions  
Bacteria  
Botulism  
Food  
Microbial contamination  
Toxicity

### **Food preferences**

RT: Feeding behaviour  
Grazing

### Food processing

USE: **Food technology**

### Food requirements

USE: **Nutritional requirements**

### **Food resources**

SN: For human consumption only  
BT: Natural resources  
RT: Human food  
Living resources  
Marine resources  
Renewable resources  
Unconventional resources

### Food stabilizers

USE: **Food additives**

### **Food technology**

SN: Restricted to industrial  
aquatic products for human and  
animal consumption  
UF: Food processing

### BT: Technology

### RT: Food

Food additives  
Food composition  
Microbiology  
Processing fishery products

### **Food webs**

NT: Food chains  
RT: Biological production  
Cycles  
Ecosystems  
Energy flow  
Food  
Heterotrophic organisms  
Trophic relationships  
Trophodynamic cycle

### **Forage fish**

SN: The prey of predatory fish  
BT: Fish  
RT: Food organisms

### **Foraging behaviour**

BT: Feeding behaviour  
RT: Grazing

### **Foraminifera**

SN: Used as subject descriptor in  
ASFA-2 only; in ASFA-1, used  
as taxonomic descriptor  
RT: Foraminiferal ooze  
Fossil foraminifera  
Micropalaeontology

### **Foraminiferal ooze**

UF: Globigerina ooze  
BT: Calcareous ooze  
RT: Foraminifera  
Fossil foraminifera

### **Forced convection**

BT: Convection  
RT: Laminar flow  
Prandtl number

### **Forced oscillations**

BT: Oscillations

### **Forces**

NT: Centrifugal force  
Centripetal force  
RT: Gravitation  
Inertia

### **Forces (mechanics)**

NT: Coriolis force  
Friction  
Gravity  
Loads (forces)  
Stress (mechanics)

## ASFA THESAURUS

### **Forearc basins**

BT: Structural basins  
RT: Active margins  
Island arcs  
Marginal basins  
Ocean basins  
Oceanic trenches  
Subduction

Forecasting

USE: **Prediction**

Forecasts

USE: **Prediction**

### **Foreign fishing**

SN: Refers to commercial fishing  
by foreign vessels  
BT: Commercial fishing  
RT: Exclusive economic zone  
Fishery disputes  
Fishery policy  
Fishery protection  
Fishing rights

Foreign trade

USE: **Trade**

### **Foreset beds**

BT: Deltaic features  
RT: Deltaic deposits  
Deltaic sedimentation

### **Foreshore**

UF: Beach face  
BT: Beach features

### **Forest industry**

BT: Industries  
RT: Deforestation  
Forests

### **Forests**

RT: Deforestation  
Forest industry

### **Form drag**

BT: Drag  
RT: Bed roughness  
Bottom friction

### **Formulae**

RT: Mathematical models

### **Forward scattering**

SN: Forward scattering of sound  
waves  
BT: Sound scattering  
RT: Backscatter

### **Fossil assemblages**

RT: Biostratigraphy  
Fossils

### **Fossil diatoms**

BT: Vegetal fossils  
RT: Diatom ooze

### **Fossil foraminifera**

BT: Animal fossils  
RT: Foraminifera  
Foraminiferal ooze

### **Fossil fueled power plants**

BT: Power plants  
RT: Fossil fuels

### **Fossil fuels**

UF: Fuel resources  
BT: Fuels  
Subsurface deposits  
NT: Coal  
Natural gas  
Petroleum  
RT: Energy resources  
Fossil fueled power plants  
Hydrocarbons  
Nonrenewable resources

### **Fossil pollen**

BT: Vegetal fossils  
RT: Palynology  
Pollen

### **Fossil pteropods**

BT: Animal fossils  
RT: Pteropod ooze

### **Fossil radiolaria**

BT: Animal fossils  
RT: Radiolarian ooze

### **Fossil sea water**

BT: Sea water  
RT: Fjords  
Palaeoceanography  
Relict lakes

### **Fossil spores**

BT: Vegetal fossils  
RT: Palynology  
Spores

### **Fossilized tracks**

BT: Trace fossils

### **Fossils**

NT: Animal fossils  
Vegetal fossils  
RT: Age determination  
Archaeology  
Biofacies

Calcification

Fossil assemblages  
Living fossils  
Palaeoclimate  
Palaeoecology  
Palaeontology  
Trace fossils

Foulers

USE: **Fouling organisms**

### **Fouling**

RT: Antifouling substances  
Degradation  
Fouling control  
Fouling organisms  
Scaling

### **Fouling control**

UF: Fouling prevention  
BT: Control  
RT: Antifouling substances  
Biological control  
Coating materials  
Coating processes  
Fouling  
Fouling organisms  
Maintenance and repair

### **Fouling organisms**

UF: Foulers  
BT: Aquatic organisms  
RT: Biological damage  
Boring organisms  
Fouling  
Fouling control

Fouling prevention

USE: **Fouling control**

### **Foundations**

UF: Marine foundations  
Seabed foundations  
NT: Piles  
RT: Settlement (structural)

### **Fourier analysis**

SN: Before 1982 search  
HARMONIC ANALYSIS  
BT: Mathematical analysis  
RT: Fourier transforms  
Harmonic analysis  
Signal processing  
Tidal analysis  
Time series analysis  
Waveform analysis

### **Fourier transforms**

BT: Functional analysis  
RT: Fourier analysis

## ASFA THESAURUS

Fovea

USE: **Retinas**

### **Fracture zones**

BT: Submarine features

RT: Escarpments

Fault zones

Mid-ocean ridges

Plate tectonics

Seafloor spreading

Valleys

### **Fractures**

BT: Defects

RT: Cracks

### **Francolite**

BT: Phosphate minerals

### **Freak waves**

BT: Water waves

RT: Catastrophic waves

### **Free air anomalies**

BT: Gravity anomalies

RT: Free air gravity charts

Free air correction

USE: **Gravity corrections**

### **Free air gravity charts**

BT: Gravity charts

RT: Free air anomalies

### **Free energy**

BT: Thermodynamic properties

RT: Energy

Enthalpy

Free-fall corers

USE: **Corers**

Free-fall equipment

USE: **Free-fall instruments**

### **Free-fall instruments**

UF: Free-fall equipment

BT: Instruments

NT: Free-fall profilers

RT: Oceanographic equipment

### **Free-fall profilers**

BT: Free-fall instruments

Profilers

RT: Velocity profilers

### **Free-swimming vehicles**

SN: Underwater vehicles with 3-D manoeuvrability

BT: Underwater vehicles

NT: Tethered free-swimming vehicles

RT: Self-propelled vehicles

Submersibles

Untethered vehicles

Freeze branding

USE: **Cold branding**

### **Freeze-dried products**

BT: Dried products

RT: Freeze-drying

### **Freeze-drying**

SN: Drying in frozen state; implies water vacuum

BT: Drying

RT: Freeze-dried products

### **Freezing**

BT: Phase changes

RT: Antifreezes

Cooling

Freezing point

Freezing storage

Ice formation

Icing

Melting

Refrigeration

Solidification

Sublimation

Thawing

### **Freezing point**

BT: Transition temperatures

RT: Freezing

Freezing point depressants

USE: **Antifreezes**

### **Freezing storage**

UF: Cryopreservation

Cryoprotectants

Frozen storage

BT: Cold storage

RT: Freezing

Frozen products

### **Freons**

BT: Fluorinated hydrocarbons

### **Frequency**

NT: Brunt-Vaisala frequency

High frequency

Low frequency

Resonant frequency

Wave frequency

RT: Dynamic response

Frequency analysis

Frequency spectra

Periodicity

Frequency (time)

USE: **Periodicity**

### **Frequency analysis**

BT: Statistical analysis

RT: Frequency

Spectral analysis

### **Frequency spectra**

BT: Spectra

RT: Energy spectra

Frequency

### **Fresh water**

SN: Including any type of surface and subsurface waters. Before 1982 search also FRESHWATER

BT: Water

RT: Freshwater aquaculture

Freshwater ecology

Freshwater lakes

Freshwater pollution

### **Freshwater aquaculture**

UF: Inland water aquaculture

BT: Aquaculture

RT: Agropisciculture

Algal culture

Bait culture

Cage culture

Extensive culture

Fish culture

Fresh water

Freshwater fish

Freshwater organisms

Frog culture

Hybrid culture

Monoculture

Prawn culture

Raceway culture

Rice field aquaculture

Shellfish culture

Thermal aquaculture

Freshwater crab culture

USE: **Crab culture**

### **Freshwater crustaceans**

UF: Crustaceans (freshwater)

BT: Freshwater organisms

Shellfish

RT: Crustacean culture

Crustacean fisheries

Crustacean larvae

### **Freshwater ecologists**

BT: Ecologists

Freshwater scientists

RT: Freshwater ecology

## ASFA THESAURUS

### Freshwater ecology

UF: Biological limnology  
 Limnology (biological)  
 BT: Ecology  
 Freshwater sciences  
 RT: Aquatic communities  
 Fishery limnology  
 Fresh water  
 Freshwater ecologists  
 Freshwater organisms  
 Inland water environment

Freshwater environment

USE: **Inland water environment**

### Freshwater fish

BT: Fish  
 Freshwater organisms  
 NT: Coarse fish  
 RT: Freshwater aquaculture  
 Herbivorous fish  
 Inland fisheries  
 Inland water environment  
 Potadromous migrations

### Freshwater ice

BT: Ice  
 RT: Glaciers  
 Lake ice  
 Land ice

Freshwater lagoons

USE: **Inland lagoons**

### Freshwater lakes

BT: Lakes  
 RT: Fresh water

### Freshwater molluscs

UF: Molluscs (freshwater)  
 Mollusks (freshwater)  
 BT: Freshwater organisms  
 Shellfish  
 RT: Malacology  
 Mollusc culture  
 Mollusc fisheries

### Freshwater organisms

BT: Aquatic organisms  
 NT: Freshwater crustaceans  
 Freshwater fish  
 Freshwater molluscs  
 Freshwater weeds  
 RT: Freshwater aquaculture  
 Freshwater ecology

### Freshwater pollution

BT: Water pollution  
 RT: Acid rain  
 Fresh water  
 Groundwater pollution

### Freshwater sciences

BT: Aquatic sciences  
 NT: Freshwater ecology  
 RT: Freshwater scientists  
 Hydrobiology  
 Hydrology  
 Limnology

### Freshwater scientists

UF: Limnologists  
 BT: Scientific personnel  
 NT: Freshwater ecologists  
 RT: Freshwater sciences  
 Limnology

Freshwater sedimentation

USE: **Sedimentation**

Freshwater springs

USE: **Water springs**

### Freshwater weeds

UF: Pond weeds  
 BT: Freshwater organisms  
 Weeds

Freshwater-seawater interface

USE: **Estuarine front**

### Friction

BT: Forces (mechanics)  
 NT: Bottom friction  
 Tidal friction  
 RT: Drag  
 Energy dissipation  
 Roughness  
 Wear

### Fringing reefs

BT: Coral reefs  
 RT: Barrier reefs

### Frog culture

UF: Amphibian culture  
 Frog farms  
 BT: Cultures  
 RT: Agropisciculture  
 Freshwater aquaculture  
 Polyculture  
 Pond culture  
 Worm culture

Frog farms

USE: **Frog culture**

### Frontal features

SN: Mesoscale features of  
 convergence in atmosphere and  
 oceans  
 BT: Mesoscale features  
 RT: Atmospheric fronts  
 Convergence

Convergence zones

Frontogenesis

Oceanic fronts

Frontiers (national)

USE: **International boundaries**

### Frontogenesis

BT: Interface phenomena  
 RT: Air masses  
 Convergence  
 Frontal features  
 Fronts  
 Water masses

### Fronts

SN: Use of a more specific term is  
 recommended  
 NT: Atmospheric fronts  
 Oceanic fronts  
 Polar fronts  
 Thermal fronts  
 RT: Convergence zones  
 Frontogenesis  
 Interfaces

Fronts (meteorology)

USE: **Atmospheric fronts**

Frost resistance

USE: **Cold resistance**

### Froude number

RT: Dimensionless numbers  
 Fluid flow  
 Inertia  
 Kinetic energy  
 Potential energy  
 Reynolds number

### Frozen products

BT: Processed fishery products  
 RT: Chilled products  
 Freezing storage  
 Refrigeration  
 Thawing

Frozen storage

USE: **Freezing storage**

### Fry

BT: Fish larvae  
 RT: Fingerlings  
 Hatching  
 Seed (aquaculture)  
 Seed collection

### Fucose

BT: Monosaccharides

## ASFA THESAURUS

### **Fucosterol**

BT: Sterols

### **Fuel economy**

SN: Energy saving measures,  
including equipment and methods

RT: Fuels

Resource conservation

Fuel resources

USE: **Fossil fuels**

### **Fuels**

UF: Diesel fuels

Heating fuels

Motor fuels

NT: Fossil fuels

Liquefied petroleum gas

RT: Fuel economy

Lubricants

### **Fulvic acids**

BT: Organic acids

RT: Humic acids

Humus

### **Functional analysis**

UF: Laplace transformation

BT: Numerical analysis

NT: Fourier transforms

Harmonic analysis

RT: Finite element method

### **Functional morphology**

BT: Biology

RT: Organism morphology

Funding

USE: **Financing**

### **Fungal diseases**

UF: Fungous diseases

Fungus diseases

Mycoses

Mycotic diseases

BT: Infectious diseases

RT: Fungi

Fungicides

Gill disease

Mycology

Parasitic diseases

Fungal gill disease

USE: **Gill disease**

Fungal vaccines

USE: **Vaccines**

### **Fungi**

SN: In ASFA-1, use as taxonomic  
descriptor; in ASFA-2, use as  
subject descriptor

RT: Aquatic plants

Bioerosion

Conidia

Decomposers

Fungal diseases

Fungicides

Microbial contamination

Microbiological analysis

Microbiological culture

Microorganisms

Mycology

Spores

### **Fungicides**

SN: Before 1982 search

PESTICIDES

UF: Antifungals

Slimicides

BT: Pesticides

RT: Antibiotics

Fungal diseases

Fungi

Mycology

Fungous diseases

USE: **Fungal diseases**

Fungus diseases

USE: **Fungal diseases**

Fur

USE: **Hair**

Furrows (deep-sea)

USE: **Deep-sea furrows**

Furunculosis

USE: **Boil disease**

Fyke nets

USE: **Trap nets**

Fyords

USE: **Fjords**

### **Gabbros**

BT: Igneous rocks

### **Gadoid fisheries**

UF: Capelin fisheries

Cod fisheries

Haddock fisheries

Hake fisheries

Pollack fisheries

Whiting fisheries

BT: Finfish fisheries

RT: Trawling

### **Gadolinium**

BT: Lanthanides

Galatheid fisheries

USE: **Squat lobster fisheries**

### **Gale force winds**

SN: Winds of 28-55 knots

BT: Winds

RT: Beaufort scale

Gusts

Hurricanes

Gales

USE: **Storms**

### **Gall bladder**

BT: Bladders

RT: Bile

### **Gallium**

BT: Heavy metals

RT: Ferromanganese nodules

### **Game fish**

UF: Sport fish

BT: Fish

RT: Sport fishing

Sport fishing statistics

### **Game theory**

BT: Operations research

RT: Mathematical models

Mathematical programming

Numerical analysis

Probability theory

Simulation

### **Gametes**

SN: Before 1995 search SEXUAL  
CELLS

BT: Sexual cells

### **Gametogenesis**

BT: Morphogenesis

NT: Oogenesis

Spermatogenesis

RT: Sexual maturity

### **Gametophytes**

### **Gamma radiation**

UF: Gamma rays

BT: Electromagnetic radiation

RT: Gamma spectroscopy

Gamma ray transmission

USE: **Gamma spectroscopy**

Gamma rays

USE: **Gamma radiation**

## ASFA THESAURUS

### **Gamma spectroscopy**

UF: Gamma ray transmission  
BT: Spectroscopic techniques  
RT: Gamma radiation  
Radioactivity

Gammaglobulins

USE: **Globulins**

### **Ganglia**

UF: Ganglion  
Nerve ganglia  
BT: Central nervous system  
RT: Brain  
Nerves  
Nervous tissues

Ganglion

USE: **Ganglia**

Gangrenes

USE: **Necroses**

Garbage

USE: **Litter**

### **Garnet**

BT: Silicate minerals  
RT: Placers

Gas

USE: **Gases**

Gas bladders

USE: **Swim bladder**

Gas bubble disease

USE: **Bubble disease**

### **Gas chromatography**

BT: Chromatographic techniques

### **Gas condensate fields**

UF: Condensate fields  
BT: Oil and gas fields  
RT: Gas condensates

### **Gas condensates**

BT: Petroleum  
RT: Gas condensate fields  
Natural gas

Gas embolism

USE: **Bubble disease**

### **Gas exchange**

UF: Gas transfer  
RT: Air-water exchanges  
Air-water interface  
Gases  
Sediment-water exchanges

### **Gas fields**

BT: Oil and gas fields  
RT: Natural gas

### **Gas flaring**

UF: Flaring  
RT: Oil treating  
Waste disposal

Gas gathering

USE: **Gathering lines**

### **Gas hydrates**

UF: Solid gas hydrates  
BT: Hydrocarbons  
RT: Methane

Gas industry

USE: **Oil and gas industry**

### **Gas oil separation**

UF: Oil gas separation  
BT: Separation  
RT: Oil and gas production

### **Gas processing**

SN: For field operations  
RT: Liquefied natural gas  
Oil and gas production  
Separation

### **Gas production**

SN: Pertains to surface equipment  
and methods used to produce  
natural gas from underground  
reservoirs  
BT: Oil and gas production  
RT: Natural gas

### **Gas seepages**

BT: Seepages  
RT: Gas turbation  
Natural gas

### **Gas solubility**

BT: Solubility  
RT: Gases

### **Gas terminals**

RT: Liquefied petroleum gas  
Natural gas  
Oil and gas industry  
Pipelines  
Port installations  
Tanker terminals

Gas transfer

USE: **Gas exchange**

### **Gas turbation**

BT: Sediment mixing  
RT: Diagenesis

Gas seepages

Mixing processes

Pock marks

### **Gas water separation**

BT: Separation

Gas well blowouts

USE: **Blowouts**

Gas-oil interface

USE: **Oil-gas interface**

### **Gases**

UF: Gas  
BT: Fluids  
NT: Atmospheric gases  
Biogas  
Breathing mixtures  
Compressed gas  
Dissolved gases  
Natural gas  
Rare gases  
RT: Air  
Ammonia  
Artificial aeration  
Gas exchange  
Gas solubility  
Liquids  
Oil-gas interface

### **Gastric evacuation**

RT: Excretion  
Stomach content

Gastrointestinal system

USE: **Digestive system**

### **Gastropod fisheries**

UF: Abalone fisheries  
Conch fisheries  
Ormer fisheries  
Sea snail fisheries  
Whelk fisheries  
Winkle fisheries  
BT: Mollusc fisheries  
RT: Marine fisheries  
Trap fishing

### **Gathering lines**

UF: Gas gathering  
BT: Pipelines  
RT: Flowlines

### **Gauges**

BT: Measuring devices  
NT: Strain gauges  
Tide gauges

## ASFA THESAURUS

### **Gaussian distribution**

BT: Distribution  
RT: Statistical analysis

Gazeteers

USE: **Gazetteers**

### **Gazetteers**

SN: Before 1995 search  
GAZETEERS

UF: Gazetteers  
BT: Documents  
RT: Atlases

### **Gear construction**

UF: Cage construction  
Net construction  
RT: Fishing gear  
Gear materials  
Gear research

Gear efficiency

USE: **Gear selectivity**

### **Gear handling**

RT: Davits  
Deck equipment  
Deployment  
Recovery  
Winches

### **Gear materials**

SN: Description and different types  
of synthetic material used in  
construction of gear, fishing nets,  
aquaculture equipment

BT: Materials  
NT: Netting materials  
Yarns

RT: Fishing gear  
Gear construction  
Gear research

### **Gear research**

RT: Experimental fishing  
Fishery engineering  
Fishing gear  
Gear construction  
Gear materials  
Gear selectivity

### **Gear selectivity**

SN: Restricted to biological  
sampling and fishing gear  
UF: Gear efficiency  
NT: Mesh selectivity  
RT: Fishing gear  
Gear research

### **Geiger counters**

BT: Counters  
RT: Radioactivity

### **GEK**

UF: Geomagnetic  
electrokinetograph  
RT: Current measuring equipment  
Electric potential  
Oceanographic equipment

### **Gelbstoff**

UF: Yellow substance  
RT: Water colour

### **Gels**

BT: Colloids  
RT: Thixotropy

### **Gemmules**

RT: Asexual reproduction  
Budding  
Colonies

Gender

USE: **Sex**

### **Gene expression**

RT: Genes

Gene mutations

USE: **Mutations**

### **Gene products**

RT: Genes

### **Genecology**

BT: Ecology  
RT: Genetic diversity  
Genetic drift  
Genetics

General circulation (atmospheric)

USE: **Atmospheric circulation**

General circulation (oceans)

USE: **Ocean circulation**

Generation (sound waves)

USE: **Sound generation**

Generation (water waves)

USE: **Wave generation**

Generators

USE: **Electric generators**

### **Genes**

BT: Chromosomes  
NT: Alleles  
RT: DNA  
Gene expression  
Gene products  
Genetics  
Genotypes  
Mutations

### **Genetic abnormalities**

BT: Abnormalities  
RT: Albinism  
Genetics  
Mutations  
Teratogens  
Teratology

### **Genetic diversity**

RT: Biodiversity  
Genecology

### **Genetic drift**

UF: Drift (genetic)  
Genetic selection  
Seawall wright effect  
BT: Bioselection  
RT: Genecology  
Genetic isolation  
Mutations  
Population genetics

Genetic engineering

USE: **Biotechnology**

Genetic factors

USE: **Genomes**

### **Genetic isolation**

UF: Isolation (genetics)  
BT: Isolating mechanisms  
RT: Genetic drift

Genetic polymorphism

USE: **Biopolymorphism**

Genetic selection

USE: **Genetic drift**

### **Genetics**

UF: Heredity  
BT: Biology  
NT: Cytogenetics  
Population genetics  
RT: Biological speciation  
Breeding  
Clones  
Evolution  
Genecology  
Genes  
Genetic abnormalities  
Genomes  
Genotypes  
Hybridization  
Hybrids  
Morphogenesis  
Mutagens  
Mutations  
Nucleic acids

(cont'd)



## ASFA THESAURUS

### *Genetics (cont'd)*

Polyploids  
Racial studies  
Selective breeding  
Sibling species

### Genom

USE: **Genomes**

### **Genomes**

UF: Genetic factors  
Genom  
RT: Chromosomes  
Genetics  
Genotypes  
Karyotypes  
Nuclei  
Sexual cells

### **Genotypes**

RT: Genes  
Genetics  
Genomes  
Hybridization  
Karyotypes  
Mutations  
Phenotypes  
Subpopulations  
Typology

### **Geochemical cycle**

BT: Chemical cycles  
NT: Biogeochemical cycle  
RT: Geochemistry

### **Geochemical surveys**

BT: Surveys  
RT: Geochemistry

### **Geochemistry**

UF: Environmental chemistry  
BT: Chemistry  
NT: Biogeochemistry  
Sediment chemistry  
RT: Atmosphere evolution  
Geochemical cycle  
Geochemical surveys  
Geological institutions  
Geology  
Geophysics  
Hydrology  
Mineralogy  
Petrology  
Seawater evolution

### Geochronology

USE: **Geochronometry**

### **Geochronometry**

SN: Measurement of geologic time.  
Before 1982 search also  
GEOCHRONOLOGY and

### RADIOACTIVE DATING

UF: Age determination (earth sciences)  
Dating (earth sciences)  
Geochronology  
BT: Measurement  
NT: Radiometric dating  
RT: Age  
Chronometers  
Geological time  
Stratigraphic correlation  
Stratigraphy

### **Geoclines**

BT: Clines  
RT: Geographical distribution

### **Geodesy**

UF: Earth measurement  
BT: Geophysics  
NT: Coastal geodesy  
Marine geodesy  
RT: Datum levels  
Earth tides  
Geodetic coordinates  
Geoid  
Horizon  
Isostasy  
Levelling  
Mean sea level  
Plumbline deflection

### **Geodetic coordinates**

RT: Coordinate systems  
Geodesy  
Geographical coordinates

### Geodynamics

USE: **Tectonophysics**

### Geographic information systems

USE: **GIS**

### **Geographical coordinates**

NT: Latitude  
Longitude  
RT: Cartography  
Coordinate systems  
Geodetic coordinates  
Geographical reference systems  
Map projections  
Marsden squares  
Plotting  
Position fixing

### **Geographical distribution**

SN: Distributional studies of organisms and abiotic factors in aquatic environment  
UF: Spatial distribution  
BT: Distribution  
NT: Differential distribution

### Horizontal distribution

Meridional distribution  
Vertical distribution  
Zonal distribution  
RT: Allopatric populations  
Biological charts  
Cosmopolite species  
Ecological distribution  
Endemic species  
Endemism  
Geoclines  
Geographical isolation  
Migrations  
Quantitative distribution  
Relict species  
Sediment distribution  
Sympatric populations

### **Geographical exploration**

SN: Geographical discovery - history  
BT: Exploration  
RT: Polar exploration  
Underwater exploration

### **Geographical isolation**

UF: Isolation (geographical)  
Spatial isolation  
BT: Isolating mechanisms  
RT: Geographical distribution

### **Geographical reference systems**

NT: Marsden squares  
RT: Geographical coordinates

### **Geography**

NT: Biogeography  
RT: Cartography  
Climatology  
Geomorphology  
Mapping

### **Geoid**

RT: Earth  
Geodesy  
Geoid anomalies  
Levelling  
Mean sea level  
Micropalaeontology  
Satellite altimetry  
Surface topography

### **Geoid anomalies**

BT: Anomalies  
RT: Geoid  
Gravity anomalies  
Surface topography

### Geological ages

USE: **Geological time**

## ASFA THESAURUS

Geological charts  
USE: **Geological maps**

**Geological collections**  
SN: Collections in museums, data banks etc.  
BT: Collections  
RT: Geological samples

Geological column  
USE: **Geological time**

**Geological correlation**  
BT: Correlation  
NT: Stratigraphic correlation

**Geological data**  
BT: Data  
RT: Bathymetric data

Geological deposition  
USE: **Sedimentation**

**Geological distribution**  
SN: Distribution of biota through geological time  
BT: Distribution  
RT: Geological maps  
Geological surveys

Geological domes  
USE: **Structural domes**

**Geological equipment**  
BT: Equipment  
NT: Vane devices  
RT: Geophysical equipment  
Penetrometers  
Sediment samplers  
Sediment traps  
Stratigraphic traps

Geological exploration  
USE: **Geological surveys**

Geological faults  
USE: **Faults**

**Geological hazards**  
BT: Hazards  
NT: Earthquakes  
Landslides  
Volcanic eruptions  
RT: Floods  
Ground motion  
Settlement (structural)  
Slumping

**Geological history**  
UF: History (geological)  
RT: Geological time  
Geology

**Geological institutions**  
UF: Geophysical institutions  
BT: Research institutions  
RT: Geochemistry  
Geology  
Geophysics

Geological mapping  
USE: **Geological surveys**

**Geological maps**  
SN: Before 1982 search  
GEOLOGICAL CHARTS  
UF: Geological charts  
Geophysical charts  
Geophysical maps  
BT: Maps  
NT: Gravity charts  
Isopach maps  
Magnetic charts  
RT: Bathymetric charts  
Geological distribution  
Geological sections  
Geological surveys  
Oceanographic atlases  
Sediment distribution  
Topographic maps

Geological oceanography  
USE: **Marine geology**

Geological record  
USE: **Geological time**

**Geological samples**  
BT: Samples  
NT: Mineral samples  
Sediment samples  
RT: Geological collections  
Geological surveys

**Geological sections**  
BT: Vertical sections  
RT: Echosounder profiles  
Geological maps  
Seismic profiles

**Geological structures**  
NT: Faults  
Folds  
Graben  
RT: Sedimentary structures  
Structural geology

**Geological surveys**  
UF: Geological exploration  
Geological mapping  
BT: Surveys  
NT: Geophysical surveys  
RT: Geological distribution  
Geological maps  
Geological samples

Oceanographic surveys  
Seafloor mapping  
Seafloor sampling  
Seismic exploration  
Site surveys

Geological systems  
USE: **Geological time**

**Geological time**  
UF: Geological ages  
Geological column  
Geological record  
Geological systems  
Geological time divisions  
Geological time scale  
Stratigraphic systems  
NT: Cenozoic  
Mesozoic  
Palaeozoic  
Phanerozoic  
Precambrian  
RT: Geochronometry  
Geological history  
Radiometric dating  
Stratigraphy  
Temporal distribution

Geological time divisions  
USE: **Geological time**

Geological time scale  
USE: **Geological time**

**Geologists**  
BT: Scientific personnel  
RT: Geology

**Geology**  
BT: Earth sciences  
NT: Geomorphology  
Glacial geology  
Hydrology  
Lithology  
Marine geology  
Petroleum geology  
Petrology  
Sedimentology  
Stratigraphy  
Structural geology  
Tectonics  
RT: Geochemistry  
Geological history  
Geological institutions  
Geologists  
Geophysics  
Mineralogy  
Palaeontology  
Palynology

Geomagnetic electrokinetograph  
USE: **GEK**

## ASFA THESAURUS

### Geomagnetic field

UF: Earth magnetic field  
 Magnetic field (earth)  
 BT: Magnetic fields  
 RT: Aeromagnetic surveys  
 Geomagnetism  
 Magnetic anomalies  
 Magnetic field elements  
 Magnetic reversals  
 Magnetic susceptibility  
 Magnetotelluric methods  
 Pole positions  
 Remanent magnetization  
 Telluric currents

Geomagnetic reversals

USE: **Magnetic reversals**

Geomagnetic surveys

USE: **Magnetic exploration**

### Geomagnetism

UF: Earth magnetism  
 Terrestrial magnetism  
 BT: Geophysics  
 Magnetism  
 RT: Geomagnetic field  
 Magnetometers  
 Magnetotelluric methods  
 Palaeomagnetism

### Geomorphology

UF: Physiography  
 BT: Geology  
 NT: Coastal morphology  
 Fluvial morphology  
 Lake morphology  
 RT: Geography  
 Glacial geology  
 Hydrology  
 Palaeoclimatology  
 Sedimentology  
 Seismology  
 Spelaeology  
 Topographic features

Geophones

USE: **Seismometers**

Geophysical charts

USE: **Geological maps**

### Geophysical data

BT: Data  
 NT: Geothermal data  
 Gravity data  
 Magnetic data  
 Seismic data  
 RT: Geophysical exploration  
 Geophysical surveys  
 Geophysics

### Geophysical equipment

BT: Equipment  
 NT: Geothermal equipment  
 Seismic equipment  
 RT: Geological equipment  
 Geophysical exploration  
 Geophysical surveys  
 Geophysics  
 Gravity meters  
 Magnetometers  
 Oceanographic equipment  
 Tiltmeters

### Geophysical exploration

UF: Geophysical methods  
 BT: Exploration  
 NT: Electrical exploration  
 Electromagnetic exploration  
 Geothermal exploration  
 Gravity exploration  
 Magnetic exploration  
 Mineral exploration  
 Oil and gas exploration  
 Seismic exploration  
 RT: Geophysical data  
 Geophysical equipment  
 Geophysical surveys  
 Geophysics

Geophysical institutions

USE: **Geological institutions**

Geophysical maps

USE: **Geological maps**

Geophysical methods

USE: **Geophysical exploration**

### Geophysical surveys

SN: Used for surveys of specific  
 regions using geophysical  
 methods  
 BT: Geological surveys  
 NT: Gravity surveys  
 RT: Geophysical data  
 Geophysical equipment  
 Geophysical exploration  
 Geophysics  
 Site surveys

### Geophysics

BT: Earth sciences  
 NT: Geodesy  
 Geomagnetism  
 Palaeomagnetism  
 Seismology  
 Tectonophysics  
 RT: Geochemistry  
 Geological institutions  
 Geology  
 Geophysical data  
 Geophysical equipment

Geophysical exploration

Geophysical surveys

Geopotential

USE: **Dynamic height**

Geopotential anomaly

USE: **Dynamic height anomaly**

Geopotential topography

USE: **Dynamic topography**

### Geosensing

SN: Use for remote sensing of earth  
 surface from space. Before 1986  
 search also REMOTE SENSING  
 UF: Earth remote sensing  
 Remote sensing (earth)  
 Teledetection  
 BT: Remote sensing  
 NT: Airborne sensing  
 Satellite sensing  
 RT: Electromagnetic radiation  
 Scientific satellites

Geostrophic currents

USE: **Geostrophic flow**

### Geostrophic equilibrium

BT: Equilibrium  
 RT: Coriolis force  
 Geostrophic flow  
 Stream functions

### Geostrophic flow

SN: Before 1982 search  
 GEOSTROPHIC CURRENTS  
 UF: Geostrophic currents  
 BT: Fluid flow  
 NT: Quasi-geostrophic motion  
 RT: Ageostrophic flow  
 Coriolis force  
 Density field  
 Density stratification  
 Dynamic topography  
 Geostrophic equilibrium  
 Geostrophic method  
 Geostrophic transport  
 Geostrophy  
 Level of no motion  
 Surface slope

Geostrophic flow calculation

USE: **Geostrophic method**

### Geostrophic method

UF: Geostrophic flow calculation  
 RT: Density field  
 Dynamic topography  
 Geostrophic flow  
 Level of no motion

## ASFA THESAURUS

### **Geostrophic transport**

UF: Geostrophic volume transport  
RT: Geostrophic flow

Geostrophic volume transport

USE: **Geostrophic transport**

### **Geostrophic winds**

BT: Winds  
RT: Gradient currents

### **Geostrophy**

RT: Ageostrophic flow  
Geostrophic flow

### **Geosynclines**

BT: Folds  
RT: Orogeny  
Synclines

### **Geotechnical data**

SN: Data on engineering properties  
of sediments and rocks  
BT: Data  
RT: Geotechnology

Geotechnical properties

USE: **Sediment properties**

Geotechnics

USE: **Geotechnology**

### **Geotechnology**

SN: Before 1986 search also SOIL  
MECHANICS  
UF: Geotechnics  
BT: Technology  
RT: Coastal engineering  
Geotechnical data  
Offshore engineering  
Soil mechanics  
Structural engineering

Geotectonics

USE: **Tectonics**

Geothermal alteration

USE: **Hydrothermal alteration**

### **Geothermal data**

BT: Geophysical data  
RT: Geothermal exploration

### **Geothermal energy**

BT: Energy  
RT: Geothermal power  
Hot springs  
Hydrothermal activity

### **Geothermal equipment**

BT: Geophysical equipment  
NT: Heat probes

### **Geothermal exploration**

BT: Geophysical exploration  
RT: Geothermal data

Geothermal fields

USE: **Hydrothermal fields**

Geothermal fluids

USE: **Hydrothermal solutions**

### **Geothermal gradient**

BT: Temperature gradients  
RT: Thermal conductivity

### **Geothermal measurement**

UF: Sediment temperature  
measurement  
BT: Temperature measurement  
RT: Heat probes  
Sediment temperature

### **Geothermal power**

SN: Geothermal energy as a source  
of power  
UF: Hydrothermal energy  
BT: Energy resources  
Thermal power  
RT: Geothermal energy  
Power from the sea  
Renewable resources

### **Geothermal properties**

BT: Physical properties  
RT: Geothermal springs

### **Geothermal springs**

SN: Before 1982 search  
THERMAL SPRINGS  
UF: Thermal springs (geothermal)  
BT: Water springs  
NT: Hydrothermal springs  
RT: Geothermal properties  
Water temperature

### **Geotropism**

BT: Tropism  
RT: Gravity  
Gravity effects

GER

USE: **Production cost**

### **Germanium**

BT: Nonmetals  
RT: Germanium compounds  
Germanium isotopes

### **Germanium compounds**

BT: Chemical compounds  
RT: Germanium

### **Germanium isotopes**

BT: Isotopes  
RT: Germanium

### **Germination**

RT: Seeds  
Spores

Gestation

USE: **Pregnancy**

Geysers

USE: **Hot springs**

### **Giant waves**

BT: Water waves  
RT: Wave height  
Wave-current interaction

Gibberellins

USE: **Phytohormones**

Gibbing

USE: **Gutting**

### **Gibbsite**

BT: Oxide minerals

Gill arches

USE: **Gills**

### **Gill disease**

UF: Bacterial gill disease  
Fungal gill disease  
BT: Fish diseases  
RT: Bacterial diseases  
Fungal diseases  
Gills

Gill rakers

USE: **Gills**

### **Gillnets**

UF: Drift nets  
Enmeshing nets  
Set nets  
Tangle nets  
BT: Fishing nets  
RT: Entangling nets  
Gillnetters

### **Gillnetters**

BT: Fishing vessels  
RT: Gillnets

### **Gillraker counts**

BT: Meristic counts

## ASFA THESAURUS

### Gills

SN: Respiratory organs usually specialized for gaseous exchange in water. Before 1982 search  
**RESPIRATORY ORGANS**  
 UF: Gill arches  
   Gill rakers  
 BT: Respiratory organs  
 RT: Aerobic respiration  
   Gill disease  
   Mantle  
   Mantle cavity

### GIS

UF: Geographic information systems  
 BT: Information systems

### Glacial deposition

USE: **Glacial sedimentation**

### Glacial deposits

UF: Drift (sediments)  
   Glacial drift  
   Glacial-marine sediments  
 NT: Boulder clay  
   Glacial erratics  
 RT: Allochthonous deposits  
   Clastics  
   Glacial erosion  
   Glacial features  
   Glacial sedimentation  
   Glacial transport  
   Ice drift  
   Lake deposits  
   Moraines  
   Rafting  
   Terrigenous sediments  
   Varves

### Glacial drift

USE: **Glacial deposits**

### Glacial epoch

USE: **Pleistocene**

### Glacial erosion

BT: Erosion  
 RT: Glacial deposits  
   Glacial features  
   Glacial lakes  
   Iceberg scouring  
   Ploughmarks

### Glacial erratics

UF: Erratics  
   Ice-rafted detritus  
 BT: Glacial deposits  
 RT: Boulders  
   Ice ages  
   Ice rafting

### Glacial features

NT: Moraines  
 RT: Deposition features  
   Eskers  
   Fjords  
   Glacial deposits  
   Glacial erosion  
   Glacial lakes  
   Glacial transport  
   Glaciers  
   Ploughmarks  
   Topographic features

### Glacial geology

BT: Geology  
 RT: Geomorphology  
   Glaciers

### Glacial lakes

SN: Lakes occupying basins formed as a result of glaciation  
 UF: Kettle lakes  
   Tarns  
 BT: Lakes  
 RT: Glacial erosion  
   Glacial features  
   Glaciation  
   Strandlines

### Glacial periods

USE: **Ice ages**

### Glacial sedimentation

UF: Glacial deposition  
 BT: Sedimentation  
 RT: Glacial deposits  
   Glaciers  
   Sedimentary environments

### Glacial transport

BT: Sediment transport  
 RT: Glacial deposits  
   Glacial features  
   Glaciers  
   Ice rafting

### Glacial-marine sediments

USE: **Glacial deposits**

### Glaciation

RT: Climatic changes  
   Deglaciation  
   Glacial lakes  
   Glaciers  
   Ice ages  
   Regressions

### Glacier ice

USE: **Glaciers**

### Glaciers

SN: Glaciers and their influence on

aquatic environment

UF: Glacier ice

BT: Ice

RT: Ablation

Cryosphere

Freshwater ice

Glacial features

Glacial geology

Glacial sedimentation

Glacial transport

Glaciation

Ice volume

Icebergs

Water resources

### Glands

BT: Secretory organs

NT: Endocrine glands

Exocrine glands

RT: Metabolism

### Glass

NT: Obsidian

RT: Fibre glass

Palagonite

Volcanic glass

### Glass-reinforced plastics

BT: Plastics

RT: Fibre glass

### Glaucconite

BT: Micas

### Glitter

RT: Light reflection

Reflectance

### Global radiation

USE: **Solar radiation**

### Global tectonics

USE: **Plate tectonics**

### Globigerina ooze

USE: **Foraminiferal ooze**

### Globulins

SN: Before 1982 search **PROTEINS**

UF: Gammaglobulins

Serum globulins

BT: Proteins

### Gloria

SN: Geological Long Range

Inclined Asdic

BT: Sonar

RT: Side scan sonar

Sonographs

## ASFA THESAURUS

### Glossaries

UF: Dictionaries  
Lexicons  
BT: Documents  
RT: Terminology

### Glucosamine

BT: Hexosamines  
RT: Chitin

### Glucose

BT: Monosaccharides  
RT: Aldehydes

### Glutamic acid

BT: Amino acids

### Glutathione

USE: **Coenzymes**

### Glycerol

BT: Alcohols

### Glycine

BT: Amino acids

### Glycogen

BT: Carbohydrates  
RT: Liver  
Muscles

### Glycolic acid

BT: Organic acids

### Glycolipids

USE: **Complex lipids**

### Glycoproteins

SN: Before 1982 search PROTEINS  
BT: Proteins  
RT: Antigens  
Hormones

### Glycosides

BT: Carbohydrates  
NT: Pigments  
Porphyrins  
Saponins

### Goethite

BT: Oxide minerals

### Gold

BT: Heavy metals  
Transition elements  
RT: Gold compounds  
Placers

### Gold compounds

BT: Chemical compounds  
RT: Gold

### Golgi apparatus

UF: Golgi bodies  
Golgi complex  
BT: Cell organelles  
RT: Cytoplasm

### Golgi bodies

USE: **Golgi apparatus**

### Golgi complex

USE: **Golgi apparatus**

### Gonad hormones

USE: **Sex hormones**

### Gonadosomatic index

### Gonadotropic hormones

USE: **Sex hormones**

### Gonads

SN: Before 1995 search ANIMAL  
REPRODUCTIVE ORGANS  
BT: Animal reproductive organs  
Endocrine glands  
NT: Ovaries  
Testes

### Goods

USE: **Products**

### Government policy

USE: **Policies**

### Governments

UF: Federal governments  
State governments  
RT: Countries  
Policies  
Political aspects

### Grabben

SN: Structural rock feature  
downthrown between two  
parallel faults relative to the  
surrounding area  
BT: Geological structures  
RT: Faults  
Rift valleys

### Grabs

BT: Sediment samplers

### Grades

USE: **Quality**

### Gradient currents

BT: Water currents  
RT: Geostrophic winds

### Gradients

NT: Density gradients

### Salinity gradients

Velocity gradients  
RT: Profiles  
Slopes (topography)

### Grading

UF: Fish grading  
Grading devices  
Size grading

### Grading devices

USE: **Grading**

### Grafting

SN: Transplantation, implantation  
or removal of tissue or organs  
RT: Histology  
Tissues

### Grafts

USE: **Transplants**

### Grain flow

BT: Sediment gravity flows  
RT: Cohesionless sediments  
Fluidization  
Liquefied sediment flow

### Grain motion

USE: **Particle motion**

### Grain orientation

BT: Orientation  
RT: Grain properties  
Sediment texture

### Grain packing

RT: Grain properties  
Sediment texture

### Grain properties

BT: Sediment properties  
RT: Grain orientation  
Grain packing  
Grain shape  
Grain size

### Grain shape

BT: Shape  
RT: Grain properties  
Sediment texture

### Grain size

UF: Grain size distribution  
Sediment size  
BT: Size  
RT: Grain properties  
Granulometry  
Permeability

(cont'd)

## ASFA THESAURUS

### *Grain size (cont'd)*

Porosity  
Sediment sorting  
Sediment texture  
Wet bulk density

Grain size distribution

USE: **Grain size**

Gramophone records

USE: **Audio recordings**

### **Granite**

BT: Igneous rocks

Granitic layer

USE: **Sial**

### **Grants**

RT: Fellowships

Financing

Research programmes

### **Granulometry**

BT: Measurement

RT: Grain size

Graphic data presentations

USE: **Graphics**

### **Graphic methods**

NT: Graphical analysis

RT: Graphics

Methodology

### **Graphical analysis**

SN: Before 1982 search GRAPHIC

METHODS

BT: Graphic methods

RT: Statistical analysis

Statistical tables

### **Graphics**

UF: Data presentation (graphics)

Graphic data presentations

BT: Audiovisual materials

NT: Engineering drawings

Graphs

Illustrations

Map graphics

Maps

RT: Graphic methods

Slides (photographic)

### **Graphite**

BT: Minerals

RT: Diamonds

### **Graphs**

UF: Curves (graphs)

BT: Graphics

NT: Growth curves

Hodographs

Hypsometric curves

T/S diagrams

Wave refraction diagrams

RT: Isopleths

Profiles

### **Grappling gear**

UF: Rakes

BT: Fishing gear

### **Gravel**

BT: Clastics

RT: Aggregates

Cohesionless sediments

Sand

Sediment load

Sediment texture

Soils

Gravel pits

USE: **Pits**

### **Gravel waves**

BT: Bed forms

RT: Transverse bed forms

Gravimeters

USE: **Gravity meters**

### **Gravimetric techniques**

BT: Analytical techniques

RT: Density

Particle concentration

Sediment analysis

### **Gravimetry**

BT: Measurement

RT: Gravity

Gravity exploration

Gravity meters

Gravity surveys

### **Gravitation**

RT: Forces

Gravity

Gravity meters

Gravitational field

USE: **Gravity field**

### **Gravity**

BT: Forces (mechanics)

RT: Geotropism

Gravimetry

Gravitation

Gravity anomalies

Gravity effects

Gravity field

Gravity waves

Plumbline deflection

Weight

### **Gravity anomalies**

BT: Anomalies

NT: Bouguer anomalies

Free air anomalies

RT: Geoid anomalies

Gravity

Gravity charts

Gravity data

Gravity exploration

Gravity field

Magnetic anomalies

Gravity anomaly charts

USE: **Gravity charts**

### **Gravity charts**

UF: Gravity anomaly charts

BT: Geological maps

NT: Bouguer gravity charts

Free air gravity charts

RT: Gravity anomalies

Gravity exploration

### **Gravity corers**

BT: Corers

### **Gravity corrections**

UF: Bouguer correction

Eotvos correction

Free air correction

Latitude correction

BT: Corrections

RT: Gravity exploration

Gravity surveys

### **Gravity data**

BT: Geophysical data

RT: Gravity anomalies

Gravity exploration

### **Gravity effects**

BT: Environmental effects

RT: Geotropism

Gravity

### **Gravity exploration**

UF: Gravity methods

BT: Geophysical exploration

RT: Coast effect

Gravimetry

Gravity anomalies

Gravity charts

Gravity corrections

Gravity data

### **Gravity field**

SN: Before 1982 search also

GRAVITATIONAL FIELD

UF: Gravitational field

BT: Fields

RT: Gravity

Gravity anomalies

## ASFA THESAURUS

Gravity induced flow

USE: **Density flow**

### **Gravity meters**

UF: Gravimeters

BT: Measuring devices

RT: Accelerometers

Geophysical equipment

Gravimetry

Gravitation

Gravity methods

USE: **Gravity exploration**

### **Gravity platforms**

BT: Fixed platforms

### **Gravity surveys**

BT: Geophysical surveys

RT: Gravimetry

Gravity corrections

### **Gravity waves**

BT: Water waves

RT: Capillary waves

Gravity

### **Graywacke**

RT: Arenites

Sandstone

Sedimentary rocks

### **Grazing**

BT: Feeding behaviour

RT: Food chains

Food preferences

Foraging behaviour

Herbivores

### **Green's function**

RT: Mathematical analysis

### **Greenhouse effect**

RT: Carbon dioxide

Climatic changes

Earth atmosphere

Heat budget

Terrestrial radiation

Water vapour

### **Greenschist facies**

BT: Metamorphic facies

RT: Greenschists

### **Greenschists**

BT: Schists

RT: Greenschist facies

### **Greigite**

BT: Sulphide minerals

Groins

USE: **Groynes**

Gross energy requirement

USE: **Production cost**

### **Ground motion**

BT: Motion

RT: Earthquake loading

Earthquakes

Geological hazards

Seismic activity

Seismology

Surface seismic waves

Ground swell

USE: **Swell**

### **Ground water**

UF: Phreatic water

Underground water

BT: Water

RT: Groundwater pollution

Percolation

Saline intrusion

Spring streams

Water resources

Water table

Watersheds

### **Groundings**

BT: Marine accidents

RT: Keel clearance

Ship losses

Shoals

### **Groundwater pollution**

BT: Water pollution

RT: Freshwater pollution

Ground water

Marine pollution

Sediment pollution

### **Group effects**

SN: Collective sensorial or chemical stimulation within organisms

BT: Environmental effects

RT: Biotic factors

Growth regulators

Social behaviour

### **Group velocity**

BT: Velocity

RT: Phase velocity

Water waves

Wave dispersion

Wave groups

Wave velocity

Grouper fisheries

USE: **Percoid fisheries**

### **Grouting**

### **Growing ponds**

UF: Fattening ponds

BT: Fish ponds

NT: Nursery ponds

### **Growth**

BT: Population functions

NT: Animal growth

Plant growth

RT: Age determination

Biological age

Biological aging

Biological development

Condition factor

Developmental stages

Diapause

Growth curves

Growth rate

Growth regulators

Metabolism

Regeneration

Stunting

### **Growth curves**

UF: Age length relationships

BT: Graphs

RT: Growth

Length-weight relationships

Population dynamics

### **Growth rate**

RT: Growth

### **Growth regulators**

SN: Chemical and biochemical products affecting growth of organisms

UF: Stimulants (growth)

NT: Auxins

RT: Group effects

Growth

Hormones

Inhibitors

Vitamins

### **Growth rings**

UF: Annuli

RT: Plant growth

### **Groynes**

UF: Groins

BT: Coast defences

RT: Beach erosion

### **Guano**

BT: Animal products

Organic fertilizers

RT: Guano birds

Manure

Phosphate deposits



## ASFA THESAURUS

### Guano birds

BT: Marine birds  
RT: Guano

### Guide lines

BT: Cables  
RT: Underwater structures  
Wire rope

Guiding (organisms)

USE: **Guiding devices**

### Guiding devices

UF: Guiding (organisms)  
Organism guiding  
NT: Electric fences  
Fishways

Gulf stream rings

USE: **Current rings**

Gustation

USE: **Taste**

### Gusts

BT: Atmospheric turbulence  
RT: Gale force winds  
Wind speed  
Winds

### Gutting

SN: Removal of gut from fish  
UF: Evisceration  
Gibbing  
Nobbing  
BT: Dressing  
RT: Fish fillets

### Guyed towers

UF: Compliant platforms  
Compliant towers  
BT: Fixed platforms  
RT: Piled platforms

### Guyots

SN: Flat topped seamounts  
UF: Tablemounts  
BT: Seamounts

### Gynogenesis

### Gypsum

BT: Sulphate minerals  
RT: Authigenic minerals  
Evaporites  
Polyhalite  
Sedimentary rocks

### Gyres

UF: Anticyclonic gyres  
Subtropical gyres  
BT: Ocean circulation

RT: Oceanic deserts

Subtropical convergences

Water circulation

### Gyrocompasses

BT: Compasses

### Gyroscopes

UF: Precision gyroscopes  
BT: Instruments

Gyroscopic waves

USE: **Inertial waves**

### Habitat

SN: A specific place with its environmental conditions occupied by an organism, a population or a community

UF: Aquatic habitat

Habitat (natural)

Natural habitat

NT: Biotopes

Exposed habitats

Microhabitats

Sheltered habitats

Underwater habitats

RT: Aquatic communities

Aquatic environment

Biocoenosis

Biota

Carrying capacity

Ecological associations

Ecological succession

Ecotypes

Habitat improvement

Habitat selection

Home range

Niches

Habitat (natural)

USE: **Habitat**

Habitat diversity

USE: **Biodiversity**

### Habitat improvement

SN: Man-made changes in aquatic natural habitat mainly for aquaculture purposes

NT: Habitat improvement

(biological)

Habitat improvement (chemical)

Habitat improvement

(fertilization)

Habitat improvement (physical)

RT: Aquaculture techniques

Habitat

### Habitat improvement (biological)

SN: Improvement of habitat by increasing food organisms

and/or introduction of forage

by man

BT: Habitat improvement

### Habitat improvement (chemical)

SN: Chemical improvement of the water properties by pH adjustment, and/or by reducing unfavourable elements

BT: Habitat improvement

RT: Artificial aeration

Habitat improvement

(fertilization)

### Habitat improvement (fertilization)

SN: Habitat improvement by fertilizers or other elements

BT: Habitat improvement

RT: Fertilizers

Habitat improvement (chemical)

### Habitat improvement (physical)

SN: Change of water depth, volume, flow by construction of dams, ripple, removal of rubble and other hydraulic techniques

BT: Habitat improvement

RT: Artificial reefs

Fishways

Shelters

### Habitat selection

RT: Colonization

Environmental factors

Habitat

Habitat types

USE: **Ecotypes**

Habitats (artificial)

USE: **Underwater habitats**

Haddock fisheries

USE: **Gadoid fisheries**

Haemagglutinins

USE: **Agglutinins**

### Haematite

UF: Hematite

BT: Oxide minerals

RT: Iron oxides

Haematoblasts

USE: **Blood cells**

### Haematological diseases

SN: Before 1982 search

HAEMATOLOGY

UF: Blood diseases

(cont'd)

## ASFA THESAURUS

### *Haematological diseases (cont'd)*

Hematological diseases  
Hemic diseases  
BT: Diseases  
NT: Anaemia  
RT: Haematology  
Septicaemia

### **Haematology**

UF: Blood chemistry  
Hematology  
BT: Biology  
RT: Blood  
Blood groups  
Erythropoiesis  
Haematological diseases  
Haemopoiesis  
Serological studies  
Serum

### Haematopoiesis

USE: **Haemopoiesis**

### **Haemocyanins**

UF: Hemocyanins  
BT: Respiratory pigments  
RT: Anaemia  
Blood  
Copper  
Proteins

### **Haemoglobins**

UF: Hemoglobins  
BT: Respiratory pigments  
RT: Anaemia  
Blood cells  
Chelates

### **Haemolymph**

BT: Body fluids  
RT: Body cavities  
Leukocytes

### **Haemopoiesis**

SN: Formation of blood or blood cells  
UF: Haematopoiesis  
Hematopoiesis  
Hemopoiesis  
RT: Blood cells  
Erythropoiesis  
Haematology

### **Haemorrhage**

UF: Hemorrhage  
BT: Symptoms  
RT: Blood vessels  
Diseases

### Haff

USE: **Coastal lagoons**

### **Hafnium**

BT: Heavy metals  
RT: Hafnium isotopes

### **Hafnium isotopes**

BT: Isotopes  
RT: Hafnium

### Hagermon redmouth

USE: **Redmouth disease**

### **Hail**

UF: Hailstones  
BT: Atmospheric precipitations  
RT: Rain  
Rainfall  
Snow

### Hailstones

USE: **Hail**

### **Hair**

UF: Fur  
Pelage  
RT: Setae

### Hake fisheries

USE: **Gadoid fisheries**

### Half life (biological)

USE: **Biological half life**

### Half life (effective)

USE: **Biological half life**

### Half tide level

USE: **Sea level**

### Halibut fisheries

USE: **Flatfish fisheries**

### **Halide minerals**

BT: Minerals  
NT: Carnallite  
Fluorite  
Halite

### **Halides**

BT: Halogen compounds  
RT: Bromides  
Chlorides  
Fluorides  
Iodides

### **Haline circulation**

BT: Thermohaline circulation

### **Halite**

BT: Halide minerals  
RT: Authigenic minerals  
Evaporites

### **Halocline**

BT: Discontinuity layers  
RT: Clines  
Isohalines  
Salinity  
Salinity stratification  
Salt-wedge estuaries

### **Halogen compounds**

BT: Chemical compounds  
NT: Bromine compounds  
Chlorine compounds  
Fluorine compounds  
Halides  
Iodine compounds  
RT: Halogenated hydrocarbons  
Organic compounds  
Salts

### **Halogenated hydrocarbons**

BT: Hydrocarbons  
NT: Brominated hydrocarbons  
Chlorinated hydrocarbons  
Fluorinated hydrocarbons  
RT: Halogen compounds

### **Halogenation**

BT: Chemical reactions  
NT: Chlorination  
RT: Halogens

### **Halogens**

BT: Nonmetals  
NT: Bromine  
Chlorine  
Fluorine  
Iodine  
RT: Halogenation

### **Halophytes**

### Hand dredges

USE: **Dredges**

### Hand lines

USE: **Lines**

### **Handling**

NT: Fish handling  
Ship handling

### Handling equipment

USE: **Deck equipment**

### **Handlining**

BT: Line fishing  
RT: Artisanal fishing  
Jigging

### Hanging culture

USE: **Off-bottom culture**

## ASFA THESAURUS

### Haploids

Harbor models  
USE: **Harbour models**

Harbor regulations  
USE: **Harbour regulations**

Harbors  
USE: **Harbours**

Harbour installations  
USE: **Port installations**

**Harbour models**  
UF: Harbor models  
BT: Hydraulic models  
RT: Harbours

**Harbour oscillations**  
UF: Range action  
BT: Seiches

**Harbour regulations**  
UF: Harbor regulations  
BT: Navigation regulations  
RT: Harbours

Harbour structures  
USE: **Port installations**

**Harbours**  
UF: Harbors  
Ports  
BT: Anchorages  
NT: Artificial harbours  
Ferry terminals  
Fishing harbours  
Military ports  
Naval bases  
Tanker terminals  
RT: Breakwaters  
Coastal structures  
Harbour models  
Harbour regulations  
Port installations  
Ship canals

Hard roe  
USE: **Roes**

Hardness (water)  
USE: **Water hardness**

**Harmonic analysis**  
BT: Functional analysis  
RT: Differential equations  
Fourier analysis  
Harmonic functions  
Tidal analysis  
Time series analysis  
Waveform analysis

### Harmonic functions

RT: Harmonic analysis  
Laplace equation  
Poisson's equation  
Tidal constants  
Tidal constituents

Harmonic tidal constants  
USE: **Tidal constants**

Harmonic tidal constituents  
USE: **Tidal constituents**

Harpoons  
USE: **Wounding gear**

**Harvesting**  
SN: Harvesting methods for  
biological purposes  
NT: Seaweed harvesting  
RT: Harvesting machines

Harvesting equipment  
USE: **Harvesting machines**

**Harvesting machines**  
SN: Harvesting equipment for  
biological purposes only  
UF: Harvesting equipment  
BT: Fishing gear  
Machinery  
RT: Aquaculture equipment  
Fish pumps  
Harvesting

**Hatcheries**  
BT: Aquaculture facilities  
RT: Bait culture  
Batch culture  
Culture tanks  
Fish ponds  
Hatching  
Incubation  
Seed collection  
Seed production

**Hatching**  
RT: Clutch  
Eggs  
Fry  
Hatcheries  
Incubation  
Incubators  
Nesting  
Rearing

**Hazard assessment**  
SN: Evaluation of hazards to  
aquatic life associated with  
the use of chemical substances  
UF: Hazard evaluation  
RT: Environmental impact

Hazardous materials  
Hazards  
Lethal limits  
Toxicity tests

Hazard evaluation  
USE: **Hazard assessment**

**Hazardous materials**  
UF: Dangerous materials  
BT: Materials  
NT: Biological poisons  
Chemical pollutants  
Explosives  
Radioactive wastes  
RT: Hazard assessment  
Hazards  
Industrial wastes  
Pesticides  
Toxicants

**Hazards**  
UF: Danger  
NT: Diving hazards  
Fire hazards  
Geological hazards  
Navigational hazards  
Radiation hazards  
Weather hazards  
RT: Accidents  
Damage  
Disasters  
Hazard assessment  
Hazardous materials  
Injuries  
Risks

**Haze**  
UF: Atmospheric turbidity  
RT: Air pollution  
Atmospheric optical phenomena  
Dust  
Dust clouds  
Fog  
Turbidity  
Visibility

**Head**  
UF: Animal head  
BT: Body regions  
RT: Brain  
Skull

Headed fish  
USE: **Heading**

**Heading**  
UF: Headed fish  
BT: Fish handling

## ASFA THESAURUS

### Headlands

UF: Cuspate forelands  
Promontories  
BT: Coastal landforms  
RT: Beach features

### Health

USE: **Public health**

### Health and safety

SN: Before 1986 search also  
**SAFETY**  
UF: Protection (human)  
Safety  
NT: Accident prevention  
Medicine  
Public health  
Radiation protection  
RT: Safety devices  
Safety regulations

### Heart

BT: Circulatory system  
RT: Blood circulation  
Blood vessels

### Heat

BT: Energy  
NT: Sensible heat  
Waste heat  
RT: Conservation of heat

Heat balance  
Heat budget  
Heat transfer  
Heating  
Temperature  
Thermal pollution  
Thermal radiation  
Thermodynamic properties  
Thermodynamics

### Heat advection

USE: **Heat transport**

### Heat affected zones

RT: Welding

### Heat balance

SN: Restricted to heat balance  
studies of organisms  
UF: Heat gain (organisms)  
Heat loss (organisms)  
RT: Aestivation  
Body temperature  
Heat  
Heat transfer

### Heat budget

SN: Use only for heat budget of  
water bodies and atmosphere.  
For studies in organisms use  
**HEAT BALANCE**

UF: Heat gain (water bodies)

Heat loss (water bodies)

BT: Energy budget

RT: Bowen ratio

Earth atmosphere

Evaporation

Greenhouse effect

Heat

Heat content

Heat exchange

Heat flow

Heat storage

Heat transport

Radiation balance

Temperature

Thermal stratification

Water budget

Water column

Heat capacity

USE: **Specific heat**

### Heat conduction

UF: Conduction (heat)

Conductive heat transfer

Molecular heat conduction

BT: Heat transfer

RT: Eddy conduction

Heat flow

Sensible heat

Thermal conductivity

### Heat content

RT: Heat budget

Water temperature

### Heat dissipation

USE: **Cooling**

### Heat exchange

SN: Heat transfer at air-water,  
air-ice, ice-water, or  
sediment-water interface

BT: Heat transfer

NT: Latent heat transfer

Sensible heat transfer

RT: Air-ice interface

Air-water exchanges

Air-water interface

Evaporation

Heat budget

Ice-water interface

Radiation balance

Sediment-water exchanges

Sediment-water interface

### Heat exchangers

RT: OTEC plants

### Heat flow

SN: Use only for heat flow  
measurements and amounts on

the ocean floor. Use

**GEOTHERMAL ENERGY** for  
land areas

UF: Heat flow flux

BT: Heat transfer

RT: Heat budget

Heat conduction

Heat probes

Hot spots

Hot springs

Mantle convection

Sediment temperature

Sediment-water exchanges

Sediment-water interface

Thermal conductivity

Heat flow flux

USE: **Heat flow**

Heat flux

USE: **Heat transfer**

Heat gain (organisms)

USE: **Heat balance**

Heat gain (water bodies)

USE: **Heat budget**

Heat loss (organisms)

USE: **Heat balance**

Heat loss (water bodies)

USE: **Heat budget**

Heat measurement

USE: **Calorimetry**

### Heat probes

BT: Geothermal equipment

RT: Geothermal measurement

Heat flow

Heat properties

USE: **Thermodynamic properties**

Heat radiation

USE: **Thermal radiation**

### Heat shock

BT: Temperature effects

RT: Cold shock

### Heat sinks

RT: Thermodynamics

### Heat storage

SN: Amount of heat used in  
changing the temperature of a  
body of water in a given time  
interval. A component of the heat  
budget

RT: Heat budget

## ASFA THESAURUS

Heat tolerance

USE: **Temperature tolerance**

### Heat transfer

UF: Heat flux

BT: Energy transfer

NT: Cooling

Eddy conduction

Heat conduction

Heat exchange

Heat flow

RT: Boundary layers

Convection

Entropy

Heat

Heat balance

Heat transport

Phase changes

Prandtl number

Radiative transfer

Temperature

Temperature differences

Thermal radiation

Thermodynamics

### Heat transport

SN: Heat advected by oceanic or atmospheric circulation into or out of a region

UF: Heat advection

Poleward heat flux

BT: Transport

RT: Advection

Atmospheric circulation

Atmospheric motion

Conservation of heat

Convection

Heat budget

Heat transfer

Ocean circulation

Water exchange

Heated effluent systems

USE: **Thermal aquaculture**

### Heating

SN: Includes heating equipment

RT: Cooling

Heat

Ice prevention

Heating fuels

USE: **Fuels**

Heave

USE: **Heaving**

### Heave compensators

RT: Drill string

Drilling

Heaving

Stabilizing

### Heave response

BT: Dynamic response

RT: Buoy motion effects

Heaving

### Heaving

UF: Heave

BT: Ship motion

RT: Buoy motion effects

Heave compensators

Heave response

### Heavy metals

SN: Metallic elements with a specific gravity greater than four

BT: Metals

NT: Antimony

Arsenic

Bismuth

Cadmium

Chromium

Cobalt

Copper

Gallium

Gold

Hafnium

Indium

Iridium

Iron

Lead

Manganese

Mercury

Molybdenum

Nickel

Niobium

Osmium

Palladium

Platinum

Radium

Rhenium

Rhodium

Ruthenium

Selenium

Silver

Tantalum

Technetium

Tellurium

Thallium

Tin

Titanium

Tungsten

Vanadium

Zinc

Zirconium

RT: Toxicants

Toxicity

### Heavy minerals

BT: Minerals

RT: Chromium

Light minerals

Rutile

### Heavy water

BT: Water

RT: Deuterium compounds

Hydrogen isotopes

### Height

UF: Altitude

BT: Dimensions

NT: Cloud height

RT: Altimeters

Altimetry

Depth

Dynamic height

Hypsometric curves

### Helicopters

BT: Aircraft

RT: Helidecks

### Helidecks

SN: Helicopter landing deck

BT: Decks

RT: Helicopters

### Helium

BT: Rare gases

RT: Helium isotopes

### Helium isotopes

BT: Isotopes

RT: Helium

Uranium-helium dating

Helium oxygen mixture

USE: **Mixed gas**

Helmholtz instability

USE: **Kelvin-Helmholtz instability**

Hematite

USE: **Haematite**

Hematological diseases

USE: **Haematological diseases**

Hematology

USE: **Haematology**

Hematopoiesis

USE: **Haemopoiesis**

Hemic diseases

USE: **Haematological diseases**

Hemocyanins

USE: **Haemocyanins**

Hemoglobins

USE: **Haemoglobins**

## ASFA THESAURUS

Hemopoiesis  
USE: **Haemopoiesis**

Hemorrhage  
USE: **Haemorrhage**

**Heparin**  
BT: Mucopolysaccharides

**Hepatocytes**  
BT: Blood cells

Hepatoma  
USE: **Tumours**

**Hepatopancreas**  
BT: Digestive glands

**Herbicides**  
BT: Pesticides  
RT: Algicides  
Lindane  
Plant control

**Herbivores**  
BT: Heterotrophic organisms  
NT: Herbivorous fish  
RT: Carnivores  
Grazing  
Omnivores  
Trophic levels

**Herbivorous fish**  
UF: Phytophagous fishes  
BT: Fish  
Herbivores  
RT: Freshwater fish  
Plant control

Heredity  
USE: **Genetics**

**Hermaphroditism**  
UF: Bisexuality  
NT: Self fertilization  
RT: Animal reproductive organs  
Imposex  
Protandry  
Protogyny  
Sex determination

**Herpetology**  
BT: Vertebrate zoology  
RT: Aquatic reptiles

Herring fisheries  
USE: **Clupeoid fisheries**

Heteroenzymes  
USE: **Enzymes**

**Heterosis**  
UF: Hybrid vigor  
BT: Biological properties  
RT: Hybrid culture  
Hybridization  
Hybrids

**Heterotrophic organisms**  
SN: Use of a more specific term is recommended  
UF: Heterotrophs  
BT: Aquatic organisms  
NT: Carnivores  
Decomposers  
Detritus feeders  
Filter feeders  
Herbivores  
Omnivores  
Plankton feeders  
Predators  
Scavengers  
RT: Feeding behaviour  
Food webs  
Heterotrophy  
Trophodynamic cycle

Heterotrophs  
USE: **Heterotrophic organisms**

**Heterotrophy**  
BT: Nutritional types  
RT: Animal nutrition  
Heterotrophic organisms

**Hexosamines**  
BT: Amines  
NT: Glucosamine

**Hiatuses**  
RT: Bottom erosion

**Hibernation**  
SN: Dormancy or resting state during winter period  
RT: Aestivation  
Body temperature  
Dormancy  
Environmental effects  
Metabolism  
Sleep  
Thermoregulation

Hierarchies (social)  
USE: **Dominance hierarchies**

**High frequency**  
BT: Frequency  
RT: Low frequency

High performance liquid chromatography  
USE: **HPLC**

**High pressure effects**  
BT: Pressure effects  
RT: Decompression chambers  
Hydrostatic pressure  
Hyperbaric  
Implosions  
Pressure vessels

**High pressure ridges**  
RT: Atmospheric disturbances  
High pressure systems

**High pressure systems**  
RT: Atmospheric disturbances  
Atmospheric pressure  
High pressure ridges  
Sea level pressure

**High seas**  
BT: Ocean space  
RT: High seas fisheries  
International waters

**High seas fisheries**  
UF: Distant water fisheries  
BT: Marine fisheries  
RT: Factory ships  
High seas

**High tide**  
SN: Before 1995 search also HIGH WATER  
UF: High water  
BT: Tides  
RT: Cotidal lines  
Flood currents  
Low tide

High water  
USE: **High tide**

Highest astronomical tides  
USE: **Astronomical tides**

Highly migratory species  
USE: **Migratory species**

Hindcasting (waves)  
USE: **Wave hindcasting**

**Histamines**  
BT: Organic compounds  
RT: Allergic reactions

**Histochemistry**  
BT: Biochemistry  
RT: Cell constituents  
Cells  
Histology  
Tissues

## ASFA THESAURUS

### Histology

UF: Tissue morphology  
BT: Biology  
RT: Anatomy  
Cytology  
Fixatives  
Grafting  
Histochemistry  
Histopathology  
Microscopy  
Tissues

### Histones

BT: Proteins  
RT: Chromosomes

### Histopathology

BT: Pathology  
RT: Diseases  
Histology  
Tissues

### Historical account

SN: History or development of aquatic sciences or research institutions  
UF: History  
RT: Archives  
Expedition reports

### History

USE: **Historical account**

### History (geological)

USE: **Geological history**

### History of sea water

USE: **Seawater evolution**

### Hodographs

BT: Graphs  
NT: Current ellipses  
Ekman spiral  
RT: Map graphics  
Vectors

### Hoisting

USE: **Lifting**

### Hoists

USE: **Cranes**

### Holdfasts

BT: Plant organs  
RT: Kelps  
Seaweeds

### Hole re-entry

UF: Re-entry (deep-sea drilling)  
RT: Boreholes  
Deep-sea drilling

### Holocene

SN: Before 1982 search  
HOLOCENE EPOCH  
UF: Recent epoch  
BT: Quaternary

### Holocene sediments

USE: **Recent sediments**

### Holography

NT: Acoustic holography  
RT: Lasers  
Light diffraction  
Photography

### Holoplankton

UF: Permanent plankton  
BT: Zooplankton

### Holotypes

SN: Single designated plant or animal specimen that serves as the basis for the original name and description of any taxon  
UF: Type specimens  
RT: New taxa  
Taxonomy  
Type localities  
Typology

### Home range

UF: Territory  
RT: Competitive behaviour  
Habitat  
Homing behaviour  
Local movements  
Territoriality

### Homeothermy

USE: **Homoiothermy**

### Homing behaviour

BT: Behaviour  
RT: Anadromous migrations  
Animal navigation  
Catadromous migrations  
Home range  
Local movements

### Homoiothermic animals

USE: **Homoiothermy**

### Homoiothermy

UF: Homeothermy  
Homoiothermic animals  
Warm-blooded animals  
BT: Biological properties  
RT: Body temperature  
Poikilothermy  
Temperature tolerance  
Thermoregulation

### Honour volumes

USE: **Collected papers**

### Hook rate

USE: **Catch/effort**

### Hooks

UF: Fish hooks  
BT: Lines  
RT: Bait

### Horizon

RT: Direction  
Geodesy

### Horizontal advection

BT: Advection  
RT: Horizontal motion

### Horizontal distribution

BT: Geographical distribution  
NT: Bipolar distribution  
RT: Annual variations  
Migrations  
Seasonal variations  
Spatial variations

### Horizontal motion

BT: Fluid flow  
RT: Atmospheric motion  
Convergence  
Divergence  
Horizontal advection  
Water currents

### Horizontal profiles

BT: Profiles  
NT: Beach profiles  
Thalweg  
RT: Bathymetric profiles  
Vertical profiles

### Hormones

UF: Chemical messengers  
Messengers (chemicals)  
BT: Secretory products  
NT: Ecdysons  
Insulin  
Neurotransmitters  
Pheromones  
Phytohormones  
Sex hormones  
RT: Drugs  
Ectocrines  
Endocrine glands  
Endocrinology  
Enzymes  
Glycoproteins  
Growth regulators  
Metabolism

(cont'd)

## ASFA THESAURUS

### *Hormones (cont'd)*

Physiology  
Secretion  
Steroids  
Target cells

### Hornblende

USE: **Amphibolites**

### Horse mackerel fisheries

USE: **Carangid fisheries**

### Hoses

NT: Floating hoses  
RT: Pipes

### Host preferences

RT: Hosts  
Parasitism  
Specificity

### Hosts

UF: Intermediate hosts  
RT: Biological vectors

Diseases  
Host preferences  
Parasites  
Parasitism

### Hot brines

UF: Hot salty water  
Metalliferous brines  
BT: Brines  
Hydrothermal solutions  
RT: Dissolved chemicals  
Metalliferous sediments

### Hot salty water

USE: **Hot brines**

### Hot spots

RT: Heat flow  
Magma  
Mantle plumes  
Plate tectonics  
Seamount chains  
Volcanism

### Hot springs

SN: Before 1982 search  
**THERMAL SPRINGS**  
UF: Geysers  
Thermal springs (hot)  
BT: Water springs  
RT: Geothermal energy  
Heat flow  
Hydrothermal springs

### Hourly

BT: Periodicity

### Hovercraft

UF: Air cushion vehicles  
BT: Surface craft  
RT: Air transportation  
Aircraft  
Amphibious vehicles

### HPLC

UF: High performance liquid chromatography  
RT: Chromatographic techniques

### Hulls

NT: Buoy hulls  
Ship hulls

### Human diseases

UF: Disorders (human)  
Sickness  
BT: Diseases  
NT: Botulism  
Ciguatera  
Decompression sickness  
Diarrhetic shellfish poisoning  
Hypercapnia  
Hypothermia  
Hypoxia  
Malaria  
Paralytic shellfish poisoning  
Sea sickness  
RT: Human physiology  
Nutrition disorders  
Public health

### Human food

UF: Food for human consumption  
BT: Food  
NT: Seafood  
RT: Fish consumption  
Food resources

### Human health

USE: **Public health**

### Human impact

USE: **Man-induced effects**

### Human physiology

BT: Physiology  
RT: Diving physiology  
Human diseases  
Medicine

### Human resources

UF: Manpower resources  
BT: Resources  
RT: Personnel

### Human underwater habitats

USE: **Underwater habitats**

### Humic acids

BT: Organic acids  
RT: Dystrophic lakes  
Fulvic acids  
Humus

### Humidity

SN: Use of a more specific term is recommended  
NT: Absolute humidity  
Relative humidity  
Specific humidity  
RT: Dew point  
Hygrometers  
Hygrometry  
Mixing ratio  
Radiosondes  
Storage conditions  
Vapour pressure  
Water content  
Water vapour  
Weather

### Humidity measurement

USE: **Hygrometry**

### Humidity sensors

USE: **Hygrometers**

### Humus

BT: Organic matter  
RT: Degradation  
Fulvic acids  
Humic acids  
Leaves  
Peat  
Soils

### Hunting

NT: Whaling  
RT: Hunting statistics  
Wounding

### Hunting statistics

SN: Tabulation of hunted pinnipeds and allied species, including derived industrial products  
BT: Catch statistics  
RT: Hunting

### Hurricane surges

USE: **Hurricane waves**

### Hurricane tides

USE: **Hurricane waves**

### Hurricane tracking

BT: Tracking  
RT: Hurricanes



## ASFA THESAURUS

### **Hurricane waves**

UF: Hurricane surges  
Hurricane tides  
BT: Storm surges  
RT: Hurricanes  
Tropical oceanography

### **Hurricanes**

SN: Mature tropical depressions  
with wind speeds of 65 knots  
and over  
UF: Cyclones (tropical)  
Tropical cyclones  
Typhoons  
BT: Storms  
Tropical depressions  
RT: Atmospheric forcing  
Bottom pressure  
Cyclones  
Disasters  
Gale force winds  
Hurricane tracking  
Hurricane waves  
Mixed layer depth  
Oceanic response  
Temperature (air-sea)  
Thermal structure  
Tropical meteorology  
Waterspouts

### **Husbandry diseases**

UF: Fish culture diseases  
BT: Diseases  
RT: Environmental diseases  
Fish diseases  
Nutrition disorders

### **Hybrid culture**

UF: Cross breeding  
BT: Aquaculture techniques  
RT: Fish culture  
Freshwater aquaculture  
Heterosis  
Hybridization  
Hybrids  
Intensive culture  
Selective breeding

Hybrid vigor

USE: **Heterosis**

### **Hybridization**

UF: Hybridizing  
Interbreeding  
RT: Breeding  
Brood stocks  
Genetics  
Genotypes  
Heterosis  
Hybrid culture  
Hybrids

Hybridizing

USE: **Hybridization**

### **Hybrids**

SN: Occurring in nature or cultured  
form  
RT: Genetics  
Heterosis  
Hybrid culture  
Hybridization  
Selective breeding

### **Hydrates**

RT: Hydration  
Ions

### **Hydration**

BT: Solvation  
RT: Dehydration  
Hydrates

### **Hydraulic engineering**

BT: Engineering  
RT: Flood control  
Hydraulic models  
Hydraulic structures  
Hydraulics  
Pond construction  
Structural engineering

### **Hydraulic jump**

RT: Standing waves  
Tidal bores

### **Hydraulic models**

BT: Scale models  
NT: Harbour models  
RT: Hydraulic engineering  
Hydraulic structures  
Test equipment  
Wave tanks

### **Hydraulic power transmission systems**

USE: Hydraulic systems

### **Hydraulic structures**

SN: Use of a more specific term is  
recommended. Before 1982  
search also COASTAL  
STRUCTURES and MARINE  
STRUCTURES  
UF: Maritime structures  
BT: Structures  
NT: Barrages  
Coastal structures  
Offshore structures  
Outfalls  
RT: Hydraulic engineering  
Hydraulic models

### **Hydraulic systems**

UF: Hydraulic power transmission  
systems  
Hydraulically operated devices  
RT: Deck equipment  
Hydrostatic pressure  
Mining equipment

Hydraulically operated devices

USE: **Hydraulic systems**

### **Hydraulics**

BT: Mechanics  
RT: Hydraulic engineering

Hydrobiologists

USE: **Biologists**

### **Hydrobiology**

UF: Aquatic biology  
BT: Biology  
RT: Algology  
Fishery biology  
Freshwater sciences  
Ichthyology  
Malacology  
Marine sciences

### **Hydrocarbon analysis**

BT: Analysis  
RT: Chemical analysis  
Hydrocarbons  
Petroleum  
Sediment analysis  
Water analysis

Hydrocarbon compounds

USE: **Hydrocarbons**

### **Hydrocarbons**

UF: Hydrocarbon compounds  
Solid hydrocarbons  
BT: Organic compounds  
NT: Gas hydrates  
Halogenated hydrocarbons  
Iodinated hydrocarbons  
Petroleum hydrocarbons  
Saturated hydrocarbons  
Unsaturated hydrocarbons  
RT: Carbon  
Carbon compounds  
Fatty acids  
Fossil fuels  
Hydrocarbon analysis  
Hydrogen  
Oil  
Oil sands  
Oil shale  
Sapropels

## ASFA THESAURUS

### Hydroclimate

- BT: Climate
- RT: Bioclimatology
  - Biogeography
  - Salinity
  - Water temperature

### Hydrodynamic equations

- BT: Equations
- RT: Dynamical oceanography
  - Hydrodynamics
  - Hydrostatic equation

### Hydrodynamics

- BT: Dynamics
  - Fluid mechanics
- RT: Boundary layers
  - Coupled bodies
  - Current forces
  - Hydrodynamic equations
  - Hydrostatics
  - Navier-Stokes equations
  - Physical limnology
  - Physical oceanography
  - Stream flow
  - Vorticity
  - Wakes
  - Water circulation
  - Wave forces

### Hydroelectric power

- BT: Energy resources
- RT: Hydroelectric power plants
  - Renewable resources
  - Tidal power
  - Wave power

### Hydroelectric power plants

- BT: Power plants
- NT: Tidal power plants
- RT: Hydroelectric power
  - Wave power devices

### Hydrofoils

- BT: Surface craft

### Hydrogen

- BT: Atmospheric gases
  - Nonmetals
- RT: Hydrocarbons
  - Hydrogen compounds
  - Hydrogen ions
  - Hydrogen isotopes
  - pH

### Hydrogen compounds

- BT: Chemical compounds
- NT: Deuterium compounds
  - Hydrogen sulphide
  - Hydroxides
  - Inorganic acids

- RT: Hydrogen
  - Water

- Hydrogen ion concentration
- USE: **pH**

### Hydrogen ions

- BT: Ions
- RT: Hydrogen

### Hydrogen isotopes

- BT: Isotopes
- NT: Deuterium
  - Tritium
- RT: Heavy water
  - Hydrogen

### Hydrogen sulphide

- BT: Hydrogen compounds
  - Sulphides
- RT: Anoxic sediments

### Hydrogenous sediments

- USE: **Chemical sediments**

### Hydrographic charts

- UF: Oceanographic charts
- BT: Maps
- NT: Bathymetric charts
  - Current charts
  - Density charts
  - Ice charts
  - Salinity charts
  - Temperature charts
  - Tidal charts
- RT: Environmental charts
  - Hydrographic data
  - Hydrographic sections
  - Hydrographic surveying
  - Hydrography
  - Oceanographic atlases

### Hydrographic data

- BT: Data
- NT: CTD observations
  - Current data
  - Current meter data
  - Salinity data
  - Water temperature data
- RT: Current observations
  - Hydrographic charts
  - Hydrography
  - Ice observations
  - STD observations
  - STD profiles

### Hydrographic sections

- SN: Use of a more specific term is recommended
- BT: Vertical sections
- NT: Bathymetric profiles
  - Density sections

- Oxygen sections
- Salinity sections
- Temperature sections
- Velocity sections
- RT: Dissolved oxygen
  - Hydrographic charts
  - Hydrography
  - Meridional distribution
  - Oceanographic atlases
  - Standard ocean sections
  - Vertical profiles
  - Zonal distribution

### Hydrographic surveying

- SN: Surveying for data required for the compilation of navigational charts, principally the determination of water depth, nature of the seabed, currents and tides, and the location of fixed objects
- UF: Charting (navigational hazards)
- BT: Surveying
- RT: Hydrographic charts
  - Hydrographic surveys
  - Research vessels
  - Survey vessels
  - Water depth

### Hydrographic surveys

- SN: Hydrographic, archaeological, cartographic, navigational, bathymetric and other seabed surveys. For TSD distribution use HYDROGRAPHY
- BT: Surveys
- NT: Bathymetric surveys
- RT: Archaeology
  - Bathymetry
  - Hydrographic surveying
  - Navigational charts
  - Research vessels
  - Site surveys
  - Survey vessels
  - Water depth

### Hydrography

- SN: Use only for general studies of the distribution of the common physico-chemical properties (temperature, salinity, oxygen, etc.) of the oceans and inland waters
- UF: Descriptive physical oceanography
- BT: Physical oceanography
- RT: Bathymetry
  - Fishery oceanography
  - Hydrographic charts
  - Hydrographic data
  - Hydrographic sections

(cont'd)

## ASFA THESAURUS

### *Hydrography (cont'd)*

Limnology  
Oceanographic surveys  
Water  
Water masses  
Water types

### **Hydrolases**

SN: Before 1982 search ENZYMES  
BT: Enzymes  
RT: Hydrolysis

### **Hydrologic cycle**

UF: Water cycle  
BT: Cycles  
RT: Energy budget  
Hydrology  
Hydrosphere  
Rainfall  
Water  
Water budget  
Water circulation  
Water resources

### **Hydrology**

SN: Use for studies of continental surface water and hydrogeology  
BT: Geology  
RT: Freshwater sciences  
Geochemistry  
Geomorphology  
Hydrologic cycle  
Hydrosphere  
Limnology  
Water  
Water budget

### **Hydrolysis**

BT: Chemical reactions  
NT: Enzymolysis  
RT: Chemical degradation  
Detoxification  
Digestion  
Hydrolases

### **Hydrometeors**

SN: Products of condensation or sublimation of atmospheric water vapour and of water particles blown by the wind from the earth's surface. Use of a more specific term is recommended  
NT: Atmospheric precipitations  
Clouds  
Droplets  
Spray  
RT: Condensation  
Sublimation  
Water  
Water vapour

### **Hydrometers**

BT: Measuring devices  
RT: Density measurement  
Density measuring equipment

### Hydrometry

USE: **Density measurement**

### **Hydrophones**

BT: Acoustic transducers  
RT: Microphones  
Piezoelectric transducers  
Sonobuoys  
Sound recorders  
Streamers

### Hydrophotometers

USE: **Photometers**

### Hydrophytes

USE: **Aquatic plants**

### **Hydrosphere**

NT: Cryosphere  
RT: Aquatic sciences  
Hydrologic cycle  
Hydrology  
Inland waters  
Marginal seas  
Ocean-atmosphere system  
Water  
Water bodies  
Water budget  
Water column

### **Hydrostatic behaviour**

UF: Hydrostatic reactions  
BT: Behaviour  
RT: Buoyancy  
Flotation  
Swim bladder

### **Hydrostatic equation**

RT: Coriolis force  
Equations of motion  
Hydrodynamic equations  
Hydrostatics

### **Hydrostatic pressure**

SN: Before 1982 search WATER PRESSURE  
UF: Pressure (water)  
Water pressure  
BT: Pressure  
NT: Bottom pressure  
RT: Decompression  
High pressure effects  
Hydraulic systems  
Hydrostatics  
Hyperbaric  
Isobaric surfaces  
Pore pressure

Pressure effects  
Pressure field  
Water  
Water density

### Hydrostatic reactions

USE: **Hydrostatic behaviour**

### **Hydrostatics**

BT: Fluid mechanics  
RT: Hydrodynamics  
Hydrostatic equation  
Hydrostatic pressure  
Pressure gradients

### **Hydrothermal activity**

SN: Before 1982 search also HYDROTHERMAL SYSTEMS  
UF: Hydrothermal processes  
Hydrothermal systems  
NT: Basalt-seawater interaction  
RT: Geothermal energy  
Hydrothermal alteration  
Hydrothermal deposits  
Hydrothermal fields  
Hydrothermal flow  
Hydrothermal solutions  
Hydrothermal springs

### **Hydrothermal alteration**

SN: Changes in the mineralogic composition of rock brought about by the action of hydrothermal solutions  
UF: Geothermal alteration  
Hydrothermal metamorphism  
BT: Metamorphism  
RT: Basalt-seawater interaction  
Hydrothermal activity  
Hydrothermal solutions  
Metasomatism  
Mineral composition

### Hydrothermal areas

USE: **Hydrothermal fields**

### Hydrothermal circulation

USE: **Hydrothermal flow**

### **Hydrothermal deposits**

UF: Hydrothermal sediments  
BT: Chemical sediments  
RT: Hydrothermal activity  
Hydrothermal fields  
Hydrothermal solutions  
Hydrothermal springs  
Metalliferous sediments  
Sulphide deposits

### Hydrothermal energy

USE: **Geothermal power**

## ASFA THESAURUS

### Hydrothermal fields

UF: Geothermal fields  
Hydrothermal areas  
BT: Fields  
RT: Hydrothermal activity  
Hydrothermal deposits  
Hydrothermal springs

### Hydrothermal flow

SN: Before 1982 search  
HYDROTHERMAL  
CIRCULATION  
UF: Hydrothermal circulation  
BT: Fluid flow  
RT: Hydrothermal activity  
Hydrothermal springs

### Hydrothermal fluids

USE: **Hydrothermal solutions**

### Hydrothermal metamorphism

USE: **Hydrothermal alteration**

### Hydrothermal processes

USE: **Hydrothermal activity**

### Hydrothermal sediments

USE: **Hydrothermal deposits**

### Hydrothermal solutions

UF: Geothermal fluids  
Hydrothermal fluids  
Hydrothermal waters  
BT: Solutions  
NT: Hot brines  
RT: Hydrothermal activity  
Hydrothermal alteration  
Hydrothermal deposits  
Hydrothermal springs  
Pore water

### Hydrothermal springs

UF: Hydrothermal vents  
Thermal springs (hydrothermal)  
Vents (hydrothermal)  
BT: Geothermal springs  
RT: Hot springs  
Hydrothermal activity  
Hydrothermal deposits  
Hydrothermal fields  
Hydrothermal flow  
Hydrothermal solutions

### Hydrothermal systems

USE: **Hydrothermal activity**

### Hydrothermal vents

USE: **Hydrothermal springs**

### Hydrothermal waters

USE: **Hydrothermal solutions**

### Hydroxides

BT: Hydrogen compounds

### Hydroxylamines

BT: Amines

### Hygiene

SN: Hygienic practices and  
precautions for public health  
RT: Diseases  
Public health  
Sanitary engineering

### Hygrometers

UF: Humidity sensors  
BT: Measuring devices  
RT: Humidity  
Hygrometry  
Water vapour

### Hygrometry

UF: Humidity measurement  
BT: Measurement  
RT: Earth atmosphere  
Humidity  
Hygrometers  
Lidar  
Water content  
Water vapour

### Hyperbaric

SN: Used only as qualifier  
RT: Decompression chambers  
High pressure effects  
Hydrostatic pressure

### Hyperbaric chambers

USE: **Decompression chambers**

### Hypercapnia

UF: Carbon dioxide poisoning  
BT: Human diseases  
RT: Asphyxia  
Blood  
Carbon dioxide  
Mortality causes  
Underwater medicine

### Hyperthermia

RT: Body temperature  
Diving hazards  
Diving physiology  
Hypothermia  
Underwater medicine

### Hypertrophy

RT: Eutrophication  
Nutrients (mineral)

### Hypolimnion

UF: Deep layers (lakes)  
RT: Deep layer

### Deep water

Epilimnion  
Metalimnion  
Stagnant water  
Thermal stratification  
Thermocline  
Water column

### Hypophysation

USE: **Induced breeding**

### Hypophysectomy

BT: Organ removal  
RT: Pituitary gland

### Hypophysis

USE: **Pituitary gland**

### Hypothalamus

BT: Brain

### Hypothermia

BT: Human diseases  
RT: Body temperature  
Diving physiology  
Hyperthermia  
Mortality causes  
Survival at sea  
Underwater medicine

### Hypoxia

UF: Oxygen poisoning  
BT: Human diseases  
RT: Anoxia  
Oxygen consumption  
Oxygen depletion  
Underwater medicine

### Hypsographic curves

USE: **Hypsometric curves**

### Hypsometric curves

UF: Hypsographic curves  
BT: Graphs  
RT: Area  
Depth  
Height  
Morphometry

### Hypsometry

RT: Atmospheric pressure  
Sea level

### Ice

SN: Use for ice in the environment  
or as a preservative  
UF: Sludge (ice)  
NT: Floating ice  
Freshwater ice  
Glaciers  
Lake ice

(cont'd)

## ASFA THESAURUS

### *Ice (cont'd)*

Land ice  
Sea ice

RT: Air-ice interface

Cryosphere  
Ice breakup  
Ice cover  
Ice fishing  
Ice prevention  
Ice properties  
Ice ridges  
Ice thickness  
Ice volume  
Ice-oil interface  
Ice-water interface  
Icing  
Navigation in ice  
Snow  
Water

### **Ice accretion**

BT: Accretion  
NT: Icing  
RT: Ablation  
Ice volume

### **Ice ages**

UF: Glacial periods  
RT: Glacial erratics  
Glaciation  
Ice volume  
Palaeoclimate  
Pleistocene

### **Ice barriers**

SN: Protection for offshore structures subject to floating ice  
BT: Barriers  
RT: Ice loads  
Pack ice

### **Ice breakers**

BT: Ships  
RT: Ice breaking  
Ice breakup  
Navigation in ice

### **Ice breaking**

RT: Ice breakers  
Ice breakup  
Navigation in ice  
Sea ice

### **Ice breakup**

RT: Ice  
Ice breakers  
Ice breaking  
Ice formation  
Ice jams  
Ice melting

Ice-free periods  
Navigation in ice

### **Ice canopy**

UF: Submarine ice profiles  
Underwater ice profiles  
RT: Ice-water interface  
Pack ice  
Polynyas

### **Ice caps**

UF: Ice mantle  
Ice sheets  
BT: Land ice  
RT: Ablation  
Air-ice interface  
Cryosphere  
Floating ice  
Ice cover  
Ice thickness  
Ice volume

### **Ice charts**

BT: Hydrographic charts  
RT: Ice conditions  
Ice cover  
Ice edge  
Ice observations  
Ice routing

Ice clearings

USE: **Polynyas**

### **Ice conditions**

RT: Ice charts  
Ice cover  
Weather

Ice control

USE: **Ice prevention**

### **Ice cover**

RT: Ice  
Ice caps  
Ice charts  
Ice conditions  
Ice edge  
Ice volume  
Ice-free periods  
Palaeoclimate  
Winterkill

### **Ice drift**

UF: Drift (ice)  
Ice movement  
BT: Drift  
RT: Glacial deposits  
Ice islands  
Icebergs  
Pack ice  
Rafting  
Wind stress

### **Ice edge**

UF: Ice limit  
RT: Ice charts  
Ice cover

### **Ice fields**

BT: Fields  
RT: Pack ice  
Sea ice

### **Ice fishing**

SN: Fishing through holes cut in the ice  
BT: Fishing  
RT: Bait fishing  
Ice  
Sport fishing

Ice floes

USE: **Pack ice**

Ice forces

USE: **Ice loads**

### **Ice forecasting**

BT: Prediction

### **Ice formation**

RT: Freezing  
Ice breakup  
Ice nuclei  
Ice-water interface  
Icing  
Sublimation

### **Ice fronts**

RT: Ice shelves

### **Ice islands**

BT: Floating ice  
RT: Ablation  
Artificial islands  
Drifting stations  
Ice drift  
Ice rafts  
Ice shelves  
Islands

### **Ice jams**

RT: Floating ice  
Ice breakup  
Ice loads  
Ice pressure  
Navigation in ice

### **Ice keels**

Ice leads

USE: **Leads**

Ice limit

USE: **Ice edge**

## ASFA THESAURUS

### Ice loads

UF: Ice forces  
BT: Loads (forces)  
RT: Ice barriers  
Ice jams  
Ice pressure  
Ice prevention  
Sea walls

Ice mantle

USE: **Ice caps**

### Ice melting

SN: Used for melting of ice and snow on land and in frozen soil. For thawing of frozen fishery products, use THAWING. For preventing and removing rime and glaze from decks, superstructures, equipment, etc., use DEICING

BT: Melting

RT: Ablation

Deicing

Ice breakup

Melt water

Thawing

Ice movement

USE: **Ice drift**

Ice navigation

USE: **Navigation in ice**

### Ice nuclei

RT: Ice formation  
Nuclei

### Ice observations

UF: Ice reporting  
RT: Hydrographic data  
Ice charts  
Iceberg detection

### Ice pressure

RT: Ice jams  
Ice loads

### Ice prevention

UF: Ice control  
RT: Deicing  
Deicing equipment  
Heating  
Ice  
Ice loads

### Ice properties

BT: Properties  
RT: Dielectric constant  
Ice  
Thermal conductivity

### Ice rafting

SN: Transport of sediments by ice  
BT: Rafting  
RT: Glacial erratics  
Glacial transport  
Ice rafts  
Palaeocurrents  
Sea ice

### Ice rafts

BT: Artificial islands  
RT: Floating structures  
Ice islands  
Ice rafting

Ice reporting

USE: **Ice observations**

### Ice ridges

RT: Ice  
Ice thickness

### Ice routing

BT: Ship routing  
RT: Ice charts  
Navigation in ice

Ice scouring

USE: **Iceberg scouring**

Ice sheets

USE: **Ice caps**

### Ice shelves

BT: Floating ice  
RT: Ablation  
Calving  
Fast ice  
Ice fronts  
Ice islands  
Ice thickness

### Ice thickness

BT: Thickness  
RT: Ice  
Ice caps  
Ice ridges  
Ice shelves

### Ice volume

SN: Estimates of total volume of ice caps, glaciers, sea ice, etc. in the cryosphere  
BT: Volume  
RT: Ablation  
Cryosphere  
Glaciers  
Ice  
Ice accretion  
Ice ages  
Ice caps

Ice cover

Water budget

Ice-air interface

USE: **Air-ice interface**

### Ice-free periods

RT: Ice breakup  
Ice cover  
Navigation in ice

### Ice-oil interface

UF: Oil-ice interface  
BT: Interfaces  
RT: Ice  
Oil pollution  
Oil spills

Ice-rafted detritus

USE: **Glacial erratics**

### Ice-water interface

UF: Water-ice interface  
BT: Interfaces  
RT: Heat exchange  
Ice  
Ice canopy  
Ice formation

### Iceberg detection

BT: Detection  
RT: Ice observations  
Icebergs  
Warning services

Iceberg scour marks

USE: **Ploughmarks**

### Iceberg scouring

UF: Ice scouring  
BT: Scouring  
RT: Bed forms  
Glacial erosion  
Ploughmarks

### Icebergs

UF: Calved ice  
Tabular bergs  
BT: Floating ice  
RT: Ablation  
Calving  
Glaciers  
Ice drift  
Iceberg detection  
Melt water

### Ichthyocides

UF: Piscicides  
Polychloropine  
BT: Pesticides  
RT: Molluscicides

## ASFA THESAURUS

### **Ichthyologists**

UF: Fish scientists  
BT: Zoologists  
RT: Fishery biologists  
Ichthyology  
Taxonomists

### **Ichthyology**

BT: Vertebrate zoology  
RT: Biogeography  
Fish  
Fish physiology  
Fishery biology  
Hydrobiology  
Ichthyologists

### **Ichthyoplankton**

BT: Zooplankton  
RT: Fish eggs  
Fish larvae  
Ichthyoplankton surveys  
Meroplankton

### **Ichthyoplankton surveys**

BT: Plankton surveys  
RT: Fishery surveys  
Ichthyoplankton

### **Icing**

SN: Formation of ice on ships and offshore structures by freezing of spray on impact  
BT: Ice accretion  
Weather hazards  
RT: Deicing  
Deicing equipment  
Freezing  
Ice  
Ice formation

### **Identification**

NT: Pollutant identification  
RT: Detection  
Identification keys  
Inspection  
Tracking

### **Identification keys**

UF: Keys  
Taxonomic keys  
RT: Check lists  
Identification  
Taxonomy

### **Igneous dikes**

BT: Igneous intrusions  
RT: Batholiths  
Igneous rocks

### **Igneous intrusions**

UF: Intrusions (igneous)  
NT: Batholiths

Igneous dikes  
RT: Diapirism  
Magma chambers  
Plutons

### **Igneous rocks**

BT: Rocks  
NT: Gabbros  
Granite  
Plutons  
Ultramafic rocks  
Volcanic rocks  
RT: Batholiths  
Igneous dikes  
Magma

### **Illegal fishing**

RT: Exclusive economic zone  
Fishery disputes  
Fishery protection

### **Illite**

BT: Clay minerals

### **Illumination**

USE: **Lighting systems**

### **Illustrations**

UF: Drawings  
Zoological drawings  
BT: Graphics

### **Ilmenite**

BT: Oxide minerals  
RT: Placers  
Titanium

### **Image enhancement**

BT: Imaging techniques  
RT: Imagery  
Pattern recognition

### **Image processing**

RT: Imagery  
Imaging techniques

### **Image sensors**

USE: **Remote sensing equipment**

### **Imagery**

UF: Images  
NT: Acoustic imagery  
Infrared imagery  
Microwave imagery  
Photography  
RT: Image enhancement  
Image processing  
Imaging techniques  
Remote sensing

### **Images**

USE: **Imagery**

### **Imaging**

USE: **Imaging techniques**

### **Imaging techniques**

UF: Imaging  
NT: Image enhancement  
RT: Image processing  
Imagery

### **Immersion effects**

RT: Light measurement

### **Immigrations**

BT: Migrations

### **Immobilization**

RT: Mobility

### **Immune response**

USE: **Immunity**

### **Immunity**

SN: The ability of an animal or plant to resist and/or overcome harmful infection or agents  
UF: Immune response  
Innate immunity  
Natural immunity  
BT: Biological properties  
RT: Antibodies  
Defence mechanisms  
Disease resistance  
Immunization  
Immunoassays  
Immunology

### **Immunization**

SN: The process of rendering an animal resistant to infection or harmful agents  
NT: Vaccination  
RT: Bacterial diseases  
Immunity  
Immunology  
Protozoan diseases  
Viral diseases

### **Immunoassays**

RT: Bioassays  
Immunity

### **Immunofluorescence**

RT: Fluorescence

### **Immunology**

RT: Allergic reactions  
Antibodies  
Diseases  
Immunity  
Immunization  
Immunoprecipitation

(cont'd)

## ASFA THESAURUS

### *Immunology (cont'd)*

Medicine  
Serological studies  
Therapy  
Toxicity

### **Immunoprecipitation**

RT: Antibodies  
Antigens  
Immunology  
Vaccination  
Vaccines

### Impact (waves)

USE: **Wave forces**

### Impacts

USE: **Collisions**

### Impaling gear

USE: **Wounding gear**

### **Impedance**

NT: Acoustic impedance  
Electric impedance

### **Impingement**

SN: Trapping of aquatic organisms  
by power plant screens  
UF: Fish impingement  
Power plant impingement  
RT: Entrainment

### **Implosions**

RT: Explosions  
High pressure effects

### Imports

USE: **Trade**

### **Imposex**

SN: Development of male sex  
organs on the female  
RT: Animal reproductive organs  
Hermaphroditism

### Impounding lakes

USE: **Water reservoirs**

### **Impoundments**

RT: Dams  
Lakes

### **Impressed currents**

BT: Electric currents  
RT: Cathodic protection

### **Imprinting**

SN: A learning process in animals,  
especially birds  
UF: Odour imprinting

BT: Learning behaviour

RT: Aquatic birds

### Improved products

USE: **New products**

### **In situ density**

BT: Water density  
RT: In situ measurements  
In situ temperature  
Potential density  
Salinity  
Sigma-T  
Thermosteric anomalies  
Water masses

### In situ instrumentation

USE: **In situ measurements**

### **In situ measurements**

UF: In situ instrumentation  
RT: In situ density  
In situ temperature

### **In situ temperature**

BT: Water temperature  
RT: In situ density  
In situ measurements  
Sigma-T

### **Inbreeding**

SN: Breeding within the  
descendants of a foundation stock  
of related animals  
BT: Breeding

### **Incineration**

UF: Incinerators  
RT: Waste disposal

### Incinerators

USE: **Incineration**

### Inclinometers

USE: **Slope indicators**

### **Incubation**

UF: Incubation time  
RT: Eggs  
Hatcheries  
Hatching  
Incubators

### Incubation time

USE: **Incubation**

### **Incubators**

RT: Hatching  
Incubation

### Indicator organisms

USE: **Indicator species**

### **Indicator species**

SN: Organisms or species used to  
indicate current patterns,  
water masses or environmental  
changes  
UF: Bioindicator organisms  
Bioindicators  
Indicator organisms  
BT: Species  
RT: Indicators  
Salinity tolerance  
Temperature tolerance  
Test organisms

### **Indicators**

NT: Pollution indicators  
RT: Indicator species

### Indigenous species

USE: **Endemic species**

### **Indium**

BT: Heavy metals

### **Indoles**

### **Induced breeding**

SN: Spawning or breeding under  
artificial conditions using  
physiological techniques and/or  
biological products  
UF: Artificial fecundation  
Artificial spawning  
Hypophysation  
Induced ovulation  
Induced spawning  
BT: Breeding  
RT: Aquaculture techniques

### Induced ovulation

USE: **Induced breeding**

### Induced spawning

USE: **Induced breeding**

### Industrial effluents

USE: **Industrial wastes**

### Industrial fish

USE: **Trash fish**

### Industrial land use

USE: **Land use**

### **Industrial production**

UF: Production (industrial)  
RT: Industrial products  
Industries  
Production cost  
Production management



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### **Industrial products**

BT: Products  
RT: Byproducts  
Industrial production  
Industries  
New products

### **Industrial products statistics**

SN: Restricted to statistics of  
processed products derived from  
fishery industry  
UF: Commodity statistics  
Fishery products statistics  
BT: Fishery statistics

### **Industrial wastes**

SN: Before 1982 for non-organic  
domestic wastes search also  
DOMESTIC WASTES  
UF: Industrial effluents  
BT: Wastes  
RT: Chemical pollutants  
Hazardous materials  
Industries  
Oil wastes  
Phenols  
Sewage  
Waste water

### **Industrialization**

RT: Industries

### **Industries**

SN: Use of a more specific term is  
recommended  
UF: Industry  
NT: Aquaculture enterprises  
Diving industry  
Fishery industry  
Forest industry  
Mineral industry  
Oil and gas industry  
RT: Industrial production  
Industrial products  
Industrial wastes  
Industrialization

### **Industry**

USE: **Industries**

### **Inert gases**

USE: **Rare gases**

### **Inertia**

UF: Inertial forces  
RT: Forces  
Froude number  
Inertial oscillations  
Inertial waves  
Motion  
Rossby number

### **Inertial currents**

BT: Water currents

### **Inertial forces**

USE: **Inertia**

### **Inertial guidance**

RT: Inertial navigation

### **Inertial navigation**

BT: Navigation  
Position fixing  
RT: Celestial navigation  
Dead reckoning  
Inertial guidance  
Navigation under ice  
Navigation underwater

### **Inertial oscillations**

RT: Inertia  
Inertial waves

### **Inertial waves**

UF: Gyroscopic waves  
BT: Water waves  
RT: Inertia  
Inertial oscillations

### **Infections**

USE: **Infectious diseases**

### **Infectious diseases**

UF: Biotic diseases  
Communicable diseases  
Contagious diseases  
Infections  
BT: Diseases  
NT: Bacterial diseases  
Fungal diseases  
Parasitic diseases  
Protozoan diseases  
Septicaemia  
Viral diseases  
RT: Epidemics  
Epidemiology  
Microbiology  
Vaccination

### **Infestation**

RT: Pest control  
Pesticides

### **Infinitesimal waves**

USE: **Linear waves**

### **Inflatable craft**

BT: Surface craft  
RT: Lifeboats

### **Inflow**

SN: Component of water budget of  
a body of water

### **NT: River discharge**

RT: Outflow  
Water budget  
Water exchange

### **Influents**

RT: Effluents

### **Information analysis services**

USE: **Information services**

### **Information centres**

SN: Before 1995 search also DATA  
CENTRES  
UF: Data centres  
BT: Organizations  
NT: Libraries  
Museums  
Warning services  
RT: Information handling  
Information retrieval  
Information services

### **Information handling**

SN: Control of literature and  
information  
RT: Information centres  
Information systems

### **Information retrieval**

SN: Location of required  
information previously  
classified and stored. Before  
1995 search also DATA  
RETRIEVAL  
UF: Data retrieval  
RT: Information centres  
Information systems

### **Information scientists**

UF: Information specialists  
BT: Scientific personnel  
RT: Librarians

### **Information services**

UF: Documentation services  
Information analysis services  
RT: Information centres  
Information systems

### **Information specialists**

USE: **Information scientists**

### **Information systems**

NT: GIS  
RT: Information handling  
Information retrieval  
Information services

## ASFA THESAURUS

### **Infrared detectors**

BT: Radiometers  
RT: Infrared imagery  
Infrared radiation  
Lasers  
Remote sensing

### **Infrared imagery**

UF: Infrared sensing  
IR imagery  
Thermal imagery  
Thermal infrared imagery  
Thermal IR imagery  
BT: Imagery  
RT: Infrared detectors  
Infrared radiation  
Satellite mosaics  
Satellite sensing

### **Infrared radiation**

BT: Electromagnetic radiation  
RT: Infrared detectors  
Infrared imagery  
Solar radiation  
Terrestrial radiation

Infrared sensing

USE: **Infrared imagery**

### **Infrared spectroscopy**

BT: Spectroscopic techniques

### **Ingestion**

RT: Animal nutrition  
Digestion

### **Inhibitors**

SN: Chemicals used to slow down reactions  
BT: Agents  
NT: Enzyme inhibitors  
RT: Anaesthetics  
Catalysts  
Drugs  
Growth regulators

Initial value problems

USE: **Boundary value problems**

Injection temperature

USE: **Intake temperature**

### **Injuries**

SN: Used for injuries to man or animals. Before 1986 search also WOUNDS  
UF: Fishing injuries  
Wounds  
RT: Accidents  
Hazards  
Lesions  
Necroses

Injurious organisms

USE: **Noxious organisms**

### **Inland fisheries**

BT: Fisheries  
NT: Lagoon fisheries  
Lake fisheries  
Reservoir fisheries  
River fisheries  
Swamp fisheries  
RT: Freshwater fish

### **Inland lagoons**

UF: Freshwater lagoons  
BT: Inland waters  
Lagoons  
RT: Lenitic environment

### **Inland seas**

SN: Use for Great Lakes, Caspian, Aral Sea and other large inland bodies of water  
BT: Inland waters  
RT: Lakes

Inland water aquaculture

USE: **Freshwater aquaculture**

### **Inland water environment**

UF: Freshwater environment  
BT: Aquatic environment  
NT: Lenitic environment  
Lotic environment  
RT: Brackishwater environment  
Eutrophic waters  
Freshwater ecology  
Freshwater fish  
Inland waters

### **Inland waters**

SN: Use of a more specific term is recommended  
UF: Inland waterways  
BT: Water bodies  
NT: Canals  
Inland lagoons  
Inland seas  
Lakes  
Ponds  
Rivers  
Water reservoirs  
Wetlands  
RT: Hydrosphere  
Inland water environment

Inland waterways

USE: **Inland waters**

### **Inlets (waterways)**

BT: Coastal inlets  
RT: Bays  
Canals

Channels

Estuaries

Fjords

Innate immunity

USE: **Immunity**

Innovation processes

USE: **Technology transfer**

### **Inorganic acids**

BT: Acids  
Hydrogen compounds  
NT: Boric acid  
Chloric acid  
Nitric acids  
Phosphoric acid  
Silicic acid  
Sulphuric acid  
RT: Chemical compounds  
Inorganic compounds  
Organic acids

### **Inorganic carbon**

BT: Carbon  
Inorganic matter  
NT: Dissolved inorganic carbon

### **Inorganic compounds**

BT: Chemical compounds  
RT: Inorganic acids  
Inorganic matter

### **Inorganic matter**

NT: Dissolved inorganic matter  
Inorganic carbon  
Suspended inorganic matter  
RT: Inorganic compounds

Inorganic suspended matter

USE: **Suspended inorganic matter**

### **Insect eggs**

BT: Eggs  
RT: Aquatic insects  
Insect larvae  
Nymphs

### **Insect larvae**

BT: Invertebrate larvae  
NT: Instars  
Nymphs  
Pupae  
RT: Aquatic insects  
Insect eggs

## ASFA THESAURUS

### **Insecticides**

BT: Pesticides  
RT: Aldrin  
Dieldrin  
Lindane  
PCB  
Repellents

Insects (aquatic)

USE: **Aquatic insects**

Inshore currents

USE: **Nearshore currents**

### **Inshore stations**

UF: Shore stations

BT: Fixed stations

RT: Lightships

### **Insolation**

RT: Cloud cover

Solar radiation

### **Insonification**

SN: Irradiation by acoustic waves

UF: Irradiation (acoustic waves)

RT: Active sonar

Sonar imagery

Sonographs

Sound

### **Inspection**

UF: Examinations

Inspectors

NT: Fish inspection

Underwater inspection

Visual inspection

X-ray inspection

RT: Acceptability

Detection

Identification

Maintenance and repair

Monitoring

Quality control

Testing

Inspectors

USE: **Inspection**

### **Instability**

UF: Dynamic instability

NT: Baroclinic instability

Barotropic instability

Benjamin Feir instability

Double diffusive instability

Kelvin-Helmholtz instability

Static instability

RT: Capsizing

Richardson number

Stability

Unsteady state

### **Installation**

SN: Before 1984 search also

INSTALLING

UF: Installing

BT: Construction

RT: Removal

Installing

USE: **Installation**

### **Instars**

BT: Insect larvae

### **Instinct**

RT: Behaviour

Biological properties

### **Institutional resources**

BT: Resources

RT: Organizations

Institutions (financial)

USE: **Financial institutions**

Institutions (research)

USE: **Research institutions**

Instrument carriers

USE: **Instrument platforms**

### **Instrument depth measurement**

BT: Depth measurement

RT: Instruments

Instrument handbooks

USE: **Manuals**

### **Instrument platforms**

UF: Instrument carriers

Observation platforms

Platforms (instrument)

Wave followers

Wave slope followers

NT: Stabilized platforms

Instrument resolutions

USE: **Resolution**

### **Instrument responses**

NT: Dynamic response

RT: Instruments

### **Instruments**

BT: Equipment

NT: Accelerometers

Direction indicators

Free-fall instruments

Gyroscopes

Meteorological instruments

Profilers

RT: Instrument depth measurement

Instrument responses

Measuring devices

Instruments (acoustic)

USE: **Acoustic equipment**

Insular slope

USE: **Island slope**

### **Insulating materials**

UF: Insulation

Lagging

BT: Materials

NT: Acoustic insulation

Electrical insulation

Thermal insulation

RT: Asbestos

Insulation

USE: **Insulating materials**

### **Insulin**

SN: Before 1982 search

HORMONES

BT: Hormones

RT: Pancreas

Proteins

### **Insurance**

UF: Marine insurance

RT: Financing

Liability

Risks

### **Intake temperature**

UF: Injection temperature

BT: Surface temperature

### **Integral equations**

BT: Equations

RT: Differential equations

Nonlinear equations

Numerical analysis

Integrated agriculture

USE: **Agropisciculture**

### **Integumentary system**

BT: Anatomical structures

NT: Feathers

RT: Epithelia

Scales

Intensive aquaculture

USE: **Intensive culture**

### **Intensive culture**

UF: Intensive aquaculture

BT: Aquaculture techniques

RT: Cage culture

Fish culture

(cont'd)

## ASFA THESAURUS

### *Intensive culture (cont'd)*

Hybrid culture  
Monosex culture  
Polyculture  
Raceway culture  
Selective breeding  
Shellfish culture  
Silo culture

Intentional inundation  
USE: **Flooding**

Inter-arc basins  
USE: **Marginal basins**

### **Interactions**

NT: Air-sea interaction  
Tide-surge interaction  
Wave interactions

Interbreeding  
USE: **Hybridization**

### **Intercalibration**

BT: Calibration  
RT: Intercomparison  
Performance assessment

### **Intercomparison**

RT: Intercalibration  
Performance assessment  
Standardization  
Testing

Interdependent species  
USE: **Associated species**

### **Interface phenomena**

SN: Interface strata and their phenomena  
NT: Frontogenesis  
RT: Dead water  
Energy budget  
Interfaces  
Interfacial waves  
Salt fingers  
Surface properties  
Surface tension

### **Interfaces**

NT: Air-ice interface  
Air-water interface  
Density interfaces  
Ice-oil interface  
Ice-water interface  
Oil-gas interface  
Oil-water interface  
Sediment-water interface  
RT: Boundaries  
Boundary layers  
Discontinuity layers  
Fronts

Interface phenomena  
Mixing processes  
Surfaces

Interfacial tension  
USE: **Surface tension**

### **Interfacial waves**

RT: Interface phenomena  
Internal waves  
Surface water waves

### **Interferometry**

BT: Analytical techniques

### **Interglacial periods**

RT: Deglaciation  
Palaeoclimate  
Pleistocene

### **Intermediate fishing**

SN: Fishing carried out in a fish pond during growing season to decrease the density of a stock or to obtain marketable fish  
BT: Fishing

Intermediate hosts  
USE: **Hosts**

### **Intermediate water masses**

BT: Water masses  
RT: Metalimnion  
Thermal stratification

Internal fertilization  
USE: **Biological fertilization**

Internal gravity waves  
USE: **Internal waves**

### **Internal tides**

UF: Baroclinic tides  
BT: Internal waves  
RT: Baroclinic mode  
Baroclinic motion

### **Internal wave breaking**

BT: Wave breaking  
RT: Internal waves  
Trans-isopycnal mixing

### **Internal wave effects**

RT: Dead water  
Sound propagation

### **Internal wave generation**

BT: Wave generation  
RT: Internal waves  
Surface wave-internal wave interactions

### **Internal waves**

UF: Internal gravity waves  
BT: Water waves  
NT: Internal tides  
Lee waves  
RT: Billows  
Directional spectra  
Interfacial waves  
Internal wave breaking  
Internal wave generation  
Nonlinear waves  
Resonant wave interaction  
Surface wave-internal wave interactions

International agencies  
USE: **International organizations**

### **International agreements**

UF: Agreements  
Conventions  
Treaties  
NT: Bilateral agreements  
Pollution convention  
Seabed conventions  
RT: International law  
International policy  
Legislation  
Whaling regulations

International allocation  
USE: **Allocation systems**

### **International boundaries**

UF: Frontiers (national)  
National boundaries  
BT: Boundaries  
RT: Territorial waters

International case law  
USE: **International law**

### **International cooperation**

SN: Including exchange of information and technical aid  
UF: International exchange  
International relations  
RT: Development projects  
International organizations  
International policy  
Technology transfer

International exchange  
USE: **International cooperation**

International expeditions  
USE: **Multiship expeditions**

International joint ventures  
USE: **Joint ventures**

## ASFA THESAURUS

### International law

UF: International case law  
NT: Law of the sea  
RT: Disputes  
International agreements

International law of the sea

USE: **Law of the sea**

International organisations

USE: **International organizations**

### International organizations

UF: International agencies  
International organisations  
BT: Organizations  
RT: International cooperation  
International policy

### International policy

UF: Policy (international)  
BT: Policies  
RT: International agreements  
International cooperation  
International organizations

International relations

USE: **International cooperation**

International sea area

USE: **International waters**

International trade

USE: **Trade**

### International waters

UF: International sea area  
BT: Ocean space  
RT: High seas

### Interocean canals

BT: Canals  
RT: Ship canals

Interoceptors

USE: **Receptors**

Interspecific interactions

USE: **Interspecific relationships**

### Interspecific relationships

UF: Interspecific interactions  
NT: Commensalism  
Competition  
Epibiosis  
Parasitism  
Predation  
Symbiosis  
RT: Associated species  
Behaviour  
Biological phenomena  
Biotic factors

Intraspecific relationships

Trophic relationships

### Interstitial environment

BT: Aquatic environment  
RT: Benthic environment  
Benthos  
Pore water

Interstitial water

USE: **Pore water**

### Intertidal environment

UF: Tidal environment  
BT: Marine environment  
RT: Air exposure  
Beaches  
Benthic environment  
Ecological zonation  
Eulittoral zone

Exposed habitats

Intertidal sedimentation

Tidal flats

Tidal pools

Tidal waves

Intertidal flats

USE: **Tidal flats**

### Intertidal sedimentation

BT: Sedimentation  
RT: Estuarine sedimentation  
Intertidal environment  
Nearshore sedimentation  
Tidal deposits  
Tidal flats

Intertidal zonation

USE: **Ecological zonation**

### Intertropical convergence zone

BT: Atmospheric convergences  
Convergence zones  
RT: Equatorial trough

### Intestines

BT: Alimentary organs  
RT: Cloaca  
Pyloric caeca

### Intraspecific relationships

UF: Intraspecific selection  
RT: Associated species  
Behaviour  
Biological phenomena  
Interspecific relationships  
Trophic relationships

Intraspecific selection

USE: **Intraspecific relationships**

### Introduced species

SN: Establishment in a new geographical area of a species by migration or artificial transportation  
UF: Alien species  
BT: Species  
RT: Colonies  
Colonization  
Domestic species  
Endemic species  
Transplantation

Intrusions (igneous)

USE: **Igneous intrusions**

Inundation

USE: **Flooding**

Inundation (irrigation)

USE: **Irrigation**

### Inventories

UF: Data catalogues  
BT: Catalogues  
RT: Data collections

Inversion layers

USE: **Inversions**

### Inversions

UF: Inversion layers  
NT: Temperature inversions  
RT: Layers

### Invertebrate larvae

SN: Use of a more specific term is recommended  
BT: Larvae  
NT: Crustacean larvae  
Insect larvae  
Molluscan larvae

Invertebrate roe

USE: **Roes**

### Invertebrate zoology

BT: Zoology  
NT: Carcinology  
Entomology  
Malacology

Investment management

USE: **Financial management**

### Investments

UF: Capital investments  
RT: Financing

### Iodates

BT: Iodine compounds

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### **Iodides**

BT: Iodine compounds  
RT: Halides

### **Iodinated hydrocarbons**

BT: Hydrocarbons  
Iodine compounds  
NT: Iodomethane

### **Iodine**

BT: Halogens  
RT: Iodine compounds  
Iodine isotopes

### **Iodine compounds**

BT: Halogen compounds  
NT: Iodates  
Iodides  
Iodinated hydrocarbons  
RT: Iodine

### **Iodine isotopes**

BT: Isotopes  
RT: Iodine

### **Iodomethane**

BT: Iodinated hydrocarbons

### **Ion accumulation**

UF: Accumulation of ions  
BT: Accumulation  
RT: Ion exchange  
Ion transport  
Ions  
Osmoregulation

### **Ion association**

RT: Chemical reactions  
Ions

### **Ion exchange**

UF: Anion exchange  
Cation exchange  
BT: Separation processes  
RT: Biological membranes  
Chemical reactions  
Demineralization  
Diffusion  
Ion accumulation  
Ion transport  
Water purification  
Water treatment

### **Ion pairs**

RT: Ions

### **Ion selective electrode analysis**

BT: Analytical techniques

### **Ion transport**

RT: Biological membranes  
Diffusion

### **Electrolysis**

Ion accumulation  
Ion exchange  
Ions  
Osmoregulation

### **Ionizing radiation**

BT: Radiations  
NT: Cosmic radiation  
Nuclear radiations  
RT: Irradiation  
Radioactivity  
Sterilization

### **Ionosphere**

BT: Upper atmosphere  
RT: Atmospheric electricity  
Stratosphere

### **Ions**

NT: Anions  
Cations  
Hydrogen ions  
Metal ions  
RT: Exchange capacity  
Hydrates  
Ion accumulation  
Ion association  
Ion pairs  
Ion transport  
Ligands  
Osmoregulation

### **IR imagery**

USE: **Infrared imagery**

### **Iridium**

BT: Heavy metals  
RT: Iridium isotopes

### **Iridium isotopes**

BT: Isotopes  
RT: Iridium

### **Iron**

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Ferromanganese oxides  
Iron compounds  
Iron isotopes  
Ironstone  
Metalliferous sediments

### **Iron compounds**

UF: Ferric compounds  
Ferrous compounds  
BT: Chemical compounds  
NT: Iron oxides  
Iron phosphates  
Iron silicates

### **Iron sulphides**

RT: Iron

### **Iron isotopes**

BT: Isotopes  
RT: Iron

### **Iron oxides**

BT: Iron compounds  
Oxides  
RT: Haematite  
Magnetite

### **Iron phosphates**

UF: Ferric phosphate  
BT: Iron compounds  
Phosphates

### **Iron silicates**

BT: Iron compounds  
Silicates

### **Iron sulphides**

BT: Iron compounds  
Sulphides

### **Ironstone**

BT: Authigenic minerals  
RT: Ferruginous deposits  
Iron  
Sedimentary rocks

### **Irradiance**

SN: Flux density of radiant energy  
in water  
NT: Downward irradiance  
Upward irradiance  
RT: Cosine collectors  
Irradiance meters  
Light  
Light fields  
Optical classification  
Optical properties  
Optical water types  
Radiance  
Radiative transfer  
Solar radiation  
Volume scattering function

### **Irradiance meters**

BT: Light measuring instruments  
RT: Irradiance  
Quanta meters

### **Irradiation**

UF: Irradiation (fishery products)  
RT: Ionizing radiation  
Radiochemistry  
Radiography

### **Irradiation (acoustic waves)**

USE: **Insonification**

## ASFA THESAURUS

Irradiation (fishery products)  
USE: **Irradiation**

**Irregular waves**  
BT: Water waves

**Irrigation**  
UF: Flooding (irrigation)  
Inundation (irrigation)  
RT: Agriculture  
Irrigation water  
Water rights

Irrigation canals  
USE: **Canals**

**Irrigation water**  
BT: Water  
RT: Irrigation  
Riparian rights  
Water policy  
Water reservoirs  
Water rights

Irrotational flow  
USE: **Potential flow**

Isentropic analysis  
USE: **Analytical techniques**

**Island arcs**  
UF: Arcs (island)  
RT: Continental margins  
Continents  
Converging plate boundaries  
Forearc basins  
Islands  
Marginal basins  
Oceanic trenches  
Plate convergence  
Subduction  
Volcanic islands  
Volcanism

**Island slope**  
UF: Insular slope  
BT: Slopes (topography)  
Submarine features  
RT: Continental slope  
Islands

**Islands**  
BT: Landforms  
NT: Atolls  
Barrier islands  
Cays  
Oceanic islands  
RT: Archipelagoes  
Artificial islands  
Ice islands  
Island arcs  
Island slope

**Isobaric surfaces**  
BT: Surfaces  
RT: Baroclinic mode  
Barotropic mode  
Dynamic height anomaly  
Dynamic topography  
Hydrostatic pressure  
Isopycnic surfaces  
Level of no motion  
Pressure field

Isobars  
USE: **Isopleths**

**Isobaths**  
UF: Depth contours  
BT: Contours  
RT: Bathymetric charts  
Bathymetry  
Bottom topography  
Water depth

Isodynamic enzymes  
USE: **Enzymes**

**Isoenzymes**  
UF: Isozymes  
BT: Enzymes

**Isohalines**  
BT: Isopleths  
RT: Environmental charts  
Halocline  
Mixed layer  
Salinity  
Salinity charts  
Salinity sections

Isohyets  
USE: **Isopleths**

**Isolating mechanisms**  
SN: Methods that prevent breeding  
between populations, so that  
the genes of each do not mix  
NT: Genetic isolation  
Geographical isolation  
Sexual isolation  
RT: Biological speciation  
Population genetics

Isolation (genetics)  
USE: **Genetic isolation**

Isolation (geographical)  
USE: **Geographical isolation**

Isolation (sexual)  
USE: **Sexual isolation**

Isolines  
USE: **Isopleths**

**Isomerases**  
BT: Enzymes

**Isomerization**  
BT: Chemical reactions

**Isopach maps**  
BT: Geological maps  
RT: Stratigraphy

Isopachs  
USE: **Isopleths**

**Isopleths**  
UF: Coamplitude lines  
Corange lines  
Isobars  
Isohyets  
Isolines  
Isopachs  
BT: Map graphics  
NT: Contours  
Cotidal lines  
Isohalines  
Isopycnics  
Isotherms  
RT: Graphs

**Isopycnic surfaces**  
BT: Surfaces  
RT: Baroclinic mode  
Barotropic mode  
Isobaric surfaces  
Isopycnics  
Water density

**Isopycnics**  
BT: Isopleths  
RT: Density charts  
Density fronts  
Isopycnic surfaces  
Pycnocline  
Specific volume  
Water density

**Isostasy**  
UF: Compensation depth (isostasy)  
Isostatic adjustment  
Isostatic compensation  
Isostatic equilibrium  
BT: Crustal adjustment  
RT: Asthenosphere  
Earth crust  
Equilibrium  
Geodesy  
Vertical tectonics

Isostatic adjustment  
USE: **Isostasy**

Isostatic compensation  
USE: **Isostasy**

## ASFA THESAURUS

Isostatic equilibrium

USE: **Isostasy**

### **Isostatic sea level**

BT: Sea level

RT: Steric sea level

### **Isothermal processes**

NT: Adiabatic processes

RT: Thermodynamics

Thermosteric anomalies

### **Isotherms**

UF: Temperature contours

BT: Isopleths

RT: Air temperature

Environmental charts

Temperature charts

Temperature sections

Thermocline

Water temperature

Isotope dating

USE: **Radiometric dating**

### **Isotope dilution**

BT: Tracer techniques

RT: Isotopes

### **Isotope fractionation**

RT: Isotopes

### **Isotopes**

UF: Nuclides

NT: Americium isotopes

Antimony isotopes

Argon isotopes

Barium isotopes

Beryllium isotopes

Bismuth isotopes

Boron isotopes

Bromine isotopes

Cadmium isotopes

Caesium isotopes

Calcium isotopes

Californium isotopes

Carbon isotopes

Cerium isotopes

Chlorine isotopes

Chromium isotopes

Cobalt isotopes

Curium isotopes

Europium isotopes

Germanium isotopes

Hafnium isotopes

Helium isotopes

Hydrogen isotopes

Iodine isotopes

Iridium isotopes

Iron isotopes

Krypton isotopes

Lanthanum isotopes

Lead isotopes

Lithium isotopes

Magnesium isotopes

Manganese isotopes

Mercury isotopes

Molybdenum isotopes

Neodymium isotopes

Neon isotopes

Neptunium isotopes

Nickel isotopes

Niobium isotopes

Nitrogen isotopes

Osmium isotopes

Oxygen isotopes

Palladium isotopes

Phosphorus isotopes

Plutonium isotopes

Polonium isotopes

Potassium isotopes

Protactinium isotopes

Radioisotopes

Radium isotopes

Radon isotopes

Rhenium isotopes

Rubidium isotopes

Ruthenium isotopes

Samarium isotopes

Scandium isotopes

Selenium isotopes

Silicon isotopes

Silver isotopes

Sodium isotopes

Strontium isotopes

Sulphur isotopes

Technetium isotopes

Tellurium isotopes

Thorium isotopes

Uranium isotopes

Xenon isotopes

Ytterbium isotopes

Yttrium isotopes

Zinc isotopes

Zirconium isotopes

RT: Chemical elements

Fission products

Isotope dilution

Isotope fractionation

Radiometric dating

Tracers

Isotopic labelling

USE: **Radioactive labelling**

### **Isotropic materials**

BT: Materials

RT: Anisotropy

Isotropy

Isotropic turbulence

USE: **Turbulence**

### **Isotropy**

RT: Anisotropy

Isotropic materials

Orientation

Isozymes

USE: **Isoenzymes**

Jack fisheries

USE: **Carangid fisheries**

Jackets

USE: **Piled platforms**

### **Jackup platforms**

SN: Towed or self-propelled

platforms supportable on

extending legs

BT: Mobile platforms

RT: Submersible platforms

### **Jet stream**

UF: Polar front jet stream

Subtropical jet stream

RT: Jets

Planetary waves

Troposphere

### **Jets**

UF: Turbulent jets

BT: Fluid flow

NT: Buoyant jets

Coastal jets

RT: Jet stream

Jetsam

USE: **Flotsam**

Jetties

USE: **Port installations**

### **Jigging**

BT: Line fishing

RT: Handlining

### **Joint ventures**

SN: Enterprises owned jointly by

interests of different

nationalities

UF: International joint ventures

RT: Bilateral agreements

### **Joints**

UF: Nodes

RT: Node construction

### **Jurassic**

SN: Before 1982 search JURASSIC

PERIOD

BT: Mesozoic



## ASFA THESAURUS

### Jurisdiction

UF: Federal jurisdiction  
State jurisdiction  
NT: Extended jurisdiction  
RT: Legislation  
Rights

### Juveniles

UF: Elvers  
Parrs  
Post larvae  
BT: Developmental stages  
NT: Pups  
Smolts

### Kainite

BT: Sulphate minerals

### Kalman filters

BT: Filters

### Kamaboko

USE: **Minced products**

### Kaolin

BT: Clay minerals  
RT: Clays  
Kaolinite

### Kaolinite

BT: Clay minerals  
RT: Kaolin

### Karokinesis

USE: **Mitosis**

### Karyological studies

USE: **Karyology**

### Karyology

UF: Karyological studies  
BT: Cytology  
RT: Chromosomes  
Meiosis  
Mitosis  
Nuclei

### Karyomites

USE: **Chromosomes**

### Karyotypes

RT: Chromosomes  
Genomes  
Genotypes

### Katadromous species

USE: **Catadromous species**

### Keel clearance

UF: Under keel clearance  
Underkeel clearance  
RT: Groundings

### Kelps

SN: Brown algae harvested and dried as a source of alginic acid or for animal feeding  
UF: Tangle  
BT: Seaweeds  
RT: Alginates  
Holdfasts

### Kelt

UF: Spawned salmon  
Spawned trout  
RT: Developmental stages

### Kelvin waves

UF: Double kelvin waves  
BT: Trapped waves  
NT: Equatorial trapped waves

### Kelvin-Helmholtz billows

USE: **Billows**

### Kelvin-Helmholtz instability

UF: Helmholtz instability  
Shear flow instability  
Shear instability  
BT: Instability  
RT: Billows  
Trans-isopycnal mixing

### Kerogen

BT: Petroleum hydrocarbons  
RT: Oil shale  
Organic matter

### Ketones

BT: Organic compounds  
NT: Acetone

### Kettle lakes

USE: **Glacial lakes**

### Keys

USE: **Identification keys**

### Keys (islands)

USE: **Cays**

### Kidneys

SN: Before 1982 search KIDNEY  
UF: Nephrons  
BT: Excretory organs  
RT: Adrenal glands  
Urinary system  
Urine  
Water balance

### Kimberlites

RT: Biotite  
Conglomerates  
Diamonds  
Peridotite

### Kinematic eddy viscosity

USE: **Eddy viscosity**

### Kinematics

BT: Mechanics  
RT: Acceleration  
Velocity

### Kinesis

BT: Orientation behaviour

### Kinetic energy

BT: Energy  
NT: Eddy kinetic energy  
RT: Drag coefficient  
Froude number  
Potential energy

### Kinetics

BT: Mechanics  
NT: Chemical kinetics  
Radionuclide kinetics

### Kinetics of chemical reactions

USE: **Chemical kinetics**

### King crab fisheries

USE: **Crab fisheries**

### King mackerel fisheries

USE: **Tuna fisheries**

### Knolls (submarine)

USE: **Seaknolls**

### Kortweg Devries equation

BT: Equations

### Krill fisheries

BT: Crustacean fisheries  
RT: Krill products  
Pelagic fisheries

### Krill meal

USE: **Krill products**

### Krill paste

USE: **Krill products**

### Krill powders

USE: **Krill products**

### Krill products

UF: Krill meal  
Krill paste  
Krill powders  
Krill protein concentrates  
BT: Processed fishery products  
RT: Krill fisheries

### Krill protein concentrates

USE: **Krill products**

## ASFA THESAURUS

Kryogenic marking  
USE: **Cold branding**

**Krypton**  
BT: Rare gases  
RT: Krypton isotopes

**Krypton isotopes**  
BT: Isotopes  
RT: Krypton

**Kurtosis**  
RT: Coefficients  
Particle distribution  
Particle size  
Skewness  
Statistical analysis

**Kyanite**  
BT: Silicate minerals

Labelling (radioactive)  
USE: **Radioactive labelling**

Labor  
USE: **Labour**

**Laboratories**  
RT: Controlled conditions  
Laboratory equipment  
Research institutions

Laboratory conditions  
USE: **Controlled conditions**

**Laboratory culture**  
UF: Biological culture  
NT: Cell culture  
Microbiological culture  
Tissue culture  
RT: Controlled conditions  
Culture media  
Culture tanks  
Cultures  
Experimental culture

**Laboratory equipment**  
BT: Equipment  
NT: Centrifuges  
Flumes  
Microscopes  
RT: Laboratories  
Limnological equipment  
Measuring devices  
Oceanographic equipment  
Test equipment  
Towing tanks  
Wave tanks

Laboratory models  
USE: **Scale models**

Laboratory rearing  
USE: **Rearing**

Laboratory research  
USE: **Experimental research**

Laboratory tests  
USE: **Tests**

**Labour**  
UF: Labor  
RT: Labour costs  
Labour legislation  
Personnel

**Labour costs**  
BT: Costs  
RT: Labour

**Labour legislation**  
SN: Before 1982 search LABOUR  
BT: Legislation  
RT: Labour

**Lactate**  
UF: Lactic acid  
RT: Organic acids

**Lactation**  
SN: The process of milk production  
by the mammary glands  
BT: Secretion  
RT: Milk

Lactic acid  
USE: **Lactate**

**Lacustrine sedimentation**  
BT: Sedimentation  
RT: Anoxic sediments  
Lake deposits  
Sedimentary environments

Lagging  
USE: **Insulating materials**

**Lagoon fisheries**  
BT: Inland fisheries  
RT: Artisanal fishing  
Brackishwater fish  
Demersal fisheries  
Fishing barriers  
Lagoons  
Shrimp fisheries

**Lagoonal sedimentation**  
BT: Sedimentation  
RT: Lagoons  
Sedimentary environments

**Lagoons**  
BT: Water bodies

NT: Atoll lagoons  
Coastal lagoons  
Inland lagoons  
RT: Backwaters  
Barrier reefs  
Brackishwater environment  
Coral reefs  
Lagoon fisheries  
Lagoonal sedimentation  
Shallow water  
Valliculture

**Lagrangian current measurement**  
SN: Before 1982 search also  
LAGRANGIAN METHODS  
(CURRENT MEASUREMENT)  
UF: Lagrangian methods (current  
measurement)  
BT: Current measurement  
RT: Data buoys  
Drogues  
Rhodamine B-dye  
Ship drift  
Subsurface drifters

**Lagrangian drifters**  
USE: Drifters

**Lagrangian drifting buoys**  
USE: Drifting data buoys

**Lagrangian methods (current  
measurement)**  
USE: Lagrangian current  
measurement

**Lake basins**  
BT: Basins  
RT: Catchment area  
Lake deposits  
Lake morphology  
Lakes  
River basins  
Watersheds

Lake beaches  
USE: **Lake shores**

Lake breezes  
USE: **Sea breezes**

Lake circulation  
USE: **Lake dynamics**

**Lake currents**  
SN: Before 1982 search also  
LENITIC CURRENTS  
UF: Lenitic currents  
BT: Water currents  
RT: Bottom currents  
Coastal jets

(cont'd)

## ASFA THESAURUS

### *Lake currents (cont'd)*

Lake dynamics  
Lakes  
Longshore currents  
Subsurface currents  
Surface currents

### **Lake deposits**

RT: Anoxic sediments  
Glacial deposits  
Lacustrine sedimentation  
Lake basins  
Lakes  
Playas

### **Lake dynamics**

UF: Lake circulation  
Reservoir dynamics  
BT: Water circulation  
RT: Coastal boundary layer  
Coastal jets  
Flushing time  
Lake currents  
Nearshore dynamics  
Overturn  
Physical limnology  
Seiches  
Surface circulation  
Water levels  
Wind setup

### **Lake fisheries**

BT: Inland fisheries  
RT: Artisanal fishing  
Coastal fisheries  
Demersal fisheries  
Fishery limnology  
Reservoir fisheries  
Salmon fisheries

### **Lake ice**

BT: Ice  
RT: Fast ice  
Floating ice  
Freshwater ice  
Lakes

### **Lake morphology**

BT: Geomorphology  
RT: Lake basins  
Lakes

### **Lake reclamation**

UF: Reclamation (lakes)  
BT: Reclamation  
RT: Coastal zone management  
Lakes  
Shore protection

### **Lake shores**

UF: Lake beaches  
RT: Coastal morphology

Lakes  
Riparian environments

### **Lakes**

BT: Inland waters  
NT: Artificial lakes  
Dystrophic lakes  
Eutrophic lakes  
Freshwater lakes  
Glacial lakes  
Meromictic lakes  
Oligotrophic lakes  
Oxbow lakes  
Relict lakes  
Salt lakes  
Strip mine lakes  
Tropical lakes  
RT: Impoundments  
Inland seas  
Lake basins  
Lake currents  
Lake deposits  
Lake ice  
Lake morphology  
Lake reclamation  
Lake shores  
Lenitic environment  
Limnology

### **Laminar boundary layer**

BT: Boundary layers  
RT: Laminar flow  
Turbulent boundary layer

### **Laminar flow**

UF: Poiseuille flow  
BT: Fluid flow  
NT: Couette flow  
RT: Atmospheric turbulence  
Channel flow  
Forced convection  
Laminar boundary layer  
Molecular viscosity  
Multiphase flow  
Reynolds number  
Stratified flow  
Turbulent flow  
Unsteady flow

### **Lampara nets**

USE: **Surrounding nets**

### **Lamprey attachment**

UF: Attachment (lampreys)  
BT: Parasite attachment  
RT: Ectoparasites

### **Land breezes**

SN: Blowing from land to sea.  
Before 1995 search also LAND  
AND SEA BREEZES

BT: Breezes  
RT: Sea breezes

### **Land bridges**

RT: Palaeoecology

### **Land forms**

USE: **Landforms**

### **Land ice**

SN: Use of a more specific term is  
recommended  
BT: Ice  
NT: Ice caps  
RT: Freshwater ice  
Permafrost

### **Land reclamation**

SN: Restoring degraded land or  
recovering land from the sea  
UF: Coastal reclamation  
Reclamation (land)  
BT: Reclamation  
RT: Coastal erosion  
Coastal zone management  
Land use  
Polders  
Wetlands

### **Land use**

UF: Commercial land use  
Industrial land use  
Land utilization  
RT: Land reclamation

### **Land utilization**

USE: **Land use**

### **Landforms**

UF: Land forms  
BT: Topographic features  
NT: Alluvial fans  
Alluvial terraces  
Coastal landforms  
Coasts  
Continents  
Flood plains  
Islands  
Mountains  
Plains  
Plateaux  
Ridges  
Valleys  
RT: Erosion features  
Physiographic provinces

### **Landing statistics**

BT: Fishery statistics  
RT: Catch statistics  
Fishing time  
Stock assessment

## ASFA THESAURUS

Landlocked countries  
USE: **Landlocked states**

**Landlocked states**  
UF: Continental nations  
Landlocked countries  
BT: Countries  
RT: Coastal states

**Landslides**  
BT: Geological hazards  
Slides  
RT: Creep  
Retrogradation  
Slope stability  
Tsunami generation

**Langmuir circulation**  
BT: Fluid motion  
RT: Convergence  
Divergence  
Surface circulation  
Surface layers  
Vortices  
Windrows  
Winds

**Lanthanides**  
BT: Rare earths  
NT: Cerium  
Dysprosium  
Erbium  
Europium  
Gadolinium  
Lanthanum  
Lutetium  
Neodymium  
Samarium  
Terbium  
Ytterbium

**Lanthanum**  
UF: Lanthanum  
BT: Lanthanides  
RT: Lanthanum isotopes

**Lanthanum isotopes**  
BT: Isotopes  
RT: Lanthanum

Lanthanum  
USE: **Lanthanum**

**Laplace equation**  
BT: Equations  
RT: Harmonic functions  
Poisson's equation  
Tidal equations

Laplace transformation  
USE: **Functional analysis**

**Larvae**  
UF: Larval stages  
BT: Developmental stages  
NT: Fish larvae  
Invertebrate larvae  
RT: Embryos  
Larval development  
Larval settlement  
Meroplankton  
Neoteny  
Seed (aquaculture)

Larvae development  
USE: **Larval development**

**Larval development**  
UF: Larvae development  
BT: Biological development  
RT: Larvae  
Metamorphosis  
Rearing

**Larval settlement**  
UF: Larval settling  
Settlement (larvae)  
BT: Biological settlement  
RT: Cultch  
Larvae  
Settling behaviour  
Substrate preferences

Larval settling  
USE: **Larval settlement**

Larval stages  
USE: **Larvae**

**Larynx**  
SN: Before 1982 search  
RESPIRATORY ORGANS  
BT: Vocal organs  
RT: Sound production

**Laser altimeters**  
BT: Altimeters  
RT: Laser bathymeters

Laser altimetry  
USE: **Altimetry**

**Laser bathymeters**  
BT: Bathymeters  
RT: Laser altimeters  
Lasers  
Remote sensing equipment

Laser bathymetry  
USE: **Bathymetry**

**Lasers**  
UF: Optical masers  
Pulsed lasers

RT: Electromagnetic radiation  
Holography  
Infrared detectors  
Laser bathymeters  
Lidar  
Optics

Latent heat of sublimation  
USE: **Sublimation heat**

Latent heat of vaporization  
USE: **Vaporization heat**

**Latent heat transfer**  
BT: Heat exchange  
RT: Bowen ratio

**Lateral line**  
UF: Lateral line system  
BT: Sense organs  
RT: Mechanical stimuli  
Mechanoreceptors

Lateral line system  
USE: **Lateral line**

**Latitude**  
BT: Geographical coordinates  
NT: Palaeolatitude  
RT: Equator  
Latitudinal variations  
Longitude

Latitude correction  
USE: **Gravity corrections**

**Latitudinal variations**  
SN: Variation in the value of some  
physical property along a  
meridian  
BT: Spatial variations  
RT: Latitude  
Meridional distribution

Lattice charts  
USE: **Navigational charts**

**Launching**  
RT: Deployment  
Recovery

**Lava**  
BT: Volcanic rocks  
NT: Pillow lava  
RT: Basalts  
Lava flows

**Lava flows**  
RT: Lava  
Volcanoes

## ASFA THESAURUS

Law enforcement

USE: **Surveillance and enforcement**

### **Law of the sea**

SN: National and international laws concerning marine water and its resources. Before 1982 search also SEA LAW

UF: International law of the sea  
Ocean law  
Sea law

BT: International law

RT: Environmental legislation

Ocean policy  
Seabed conventions

Layer of no motion

USE: **Level of no motion**

### **Layers**

NT: Boundary layers  
Core layers (water)  
Discontinuity layers  
Seismic layers  
Water column

RT: Inversions  
Levels

Stratification  
Surface films  
Surfaces

### **Leaching**

BT: Separation processes

RT: Degradation

Diffusion  
Dissolution  
Percolation  
Permeability  
Solubility  
Solvent extraction  
Weathering

### **Lead**

BT: Heavy metals

RT: Ferromanganese nodules

Lead compounds  
Lead isotopes  
Metalliferous sediments

### **Lead 210**

BT: Lead isotopes

### **Lead compounds**

BT: Chemical compounds

RT: Lead

### **Lead isotopes**

BT: Isotopes

NT: Lead 210

RT: Lead

### **Leads**

UF: Ice leads

RT: Floating ice  
Navigation in ice  
Polynyas

Leaf

USE: **Leaves**

### **Leaf litter**

SN: Detritus of leaves

BT: Detritus

RT: Leaves

### **Leaks**

BT: Defects

RT: Seals (stoppers)

Leaks (oil)

USE: **Oil spills**

### **Learning behaviour**

SN: Conditioned response or reflex of aquatic organisms

BT: Behaviour

NT: Imprinting

RT: Stimuli

### **Leases**

RT: Oil and gas exploration

Rental

### **Least squares method**

BT: Approximation

RT: Regression analysis

### **Leaves**

UF: Leaf

BT: Plant organs

RT: Humus

Leaf litter  
Photosynthesis  
Stomata

### **Lectins**

### **Lectotype**

### **Lectures**

UF: Talks

RT: Conferences

Publicity material

### **Lee eddies**

SN: Eddies formed on the lee of obstacles. Before 1982 search EDDIES (LEE)

UF: Eddies (lee)

BT: Water motion

RT: Flow around objects

Vortices

### **Lee waves**

UF: Mountain waves

BT: Internal waves

RT: Atmospheric motion  
Stratified shear flow  
Topographic effects

### **Legal aspects**

SN: Before 1982 search  
LEGISLATION

RT: Disputes

Legislation

Political aspects

Rights

### **Legislation**

UF: Regulations

NT: Aquaculture regulations

Commercial legislation

Environmental legislation

Fishery industry legislation

Fishery regulations

Labour legislation

Maritime legislation

Mining legislation

Navigation regulations

Oil and gas legislation

Quarantine regulations

Safety regulations

Water use regulations

RT: International agreements

Jurisdiction

Legal aspects

Policies

Rights

### **Legs (structural)**

RT: Structures

Leisure activities

USE: **Recreation**

### **Length**

BT: Dimensions

NT: Mixing length

### **Length-weight relationships**

UF: Size-weight relationships

Weight-length relationships

BT: Population factors

RT: Body shape

Body size

Body weight

Condition factor

Growth curves

Size distribution

Lenitic currents

USE: **Lake currents**

## ASFA THESAURUS

### **Lenitic environment**

BT: Inland water environment  
 RT: Benthic environment  
   Euphotic zone  
   Inland lagoons  
   Lakes  
   Lotic environment  
   Marshes  
   Pelagic environment  
   Ponds  
   Water reservoirs

Leptocephalus

USE: **Fish larvae**

### **Lesions**

SN: For either aquatic animals or man  
 UF: Scars  
 RT: Injuries

### **Lethal effects**

RT: Bioaccumulation  
   Biological poisons  
   Biotesting  
   Mortality causes  
   Pollution effects  
   Sublethal effects  
   Toxicity

### **Lethal limits**

RT: Biological poisons  
   Hazard assessment  
   Limiting factors  
   Pesticides  
   Pollutants  
   Starvation  
   Survival  
   Tolerance  
   Toxicity

Lethal mutations

USE: **Mutations**

### **Leucine**

BT: Amino acids

Leucocytes

USE: **Leukocytes**

### **Leukocytes**

UF: Leucocytes  
 BT: Blood cells  
 RT: Haemolymph

### **Levees**

BT: Embankments  
 RT: Alluvial deposits  
   Flood plains  
   Fluvial features  
   River banks  
   Seachannels

### **Level of no motion**

UF: Layer of no motion  
   Surface of no motion  
 BT: Reference levels  
 RT: Geostrophic flow  
   Geostrophic method  
   Isobaric surfaces

### **Levelling**

RT: Bench marks  
   Datum levels  
   Geodesy  
   Geoid  
   Mean sea level

### **Levels**

NT: Reference levels  
   Water levels  
 RT: Layers  
   Surfaces

Lexicons

USE: **Glossaries**

### **Liability**

RT: Insurance

### **Librarians**

UF: Archivists  
 RT: Information scientists  
   Libraries

### **Libraries**

BT: Information centres  
 RT: Archives  
   Data collections  
   Librarians

### **Licences**

NT: Concessions  
   Permits  
 RT: Licensing

### **Licensing**

RT: Licences

### **Lidar**

UF: Coherent Light Detection and Ranging  
 RT: Hygrometry  
   Lasers  
   Meteorological instruments  
   Radar  
   Remote sensing equipment  
   Sodar

### **Life cycle**

SN: Morphological changes and growth from egg to adult stages  
 BT: Cycles  
 RT: Biological age  
   Biological aging

Biological development  
 Developmental stages  
 Differential distribution  
 Life history  
 Longevity  
 Metamorphosis  
 Ontogeny  
 Reproductive cycle  
 Sexual maturity

### **Life history**

SN: Taxonomic, biological and ecological studies of a species  
 RT: Autecology  
   Biology  
   Life cycle

### **Life jackets**

RT: Life saving equipment  
   Survival at sea

### **Life saving equipment**

RT: Life jackets  
   Life support systems  
   Lifeboats  
   Safety devices

Life sciences (agriculture)

USE: **Agriculture**

Life sciences (biology)

USE: **Biology**

Life sciences (medicine)

USE: **Medicine**

Life span

USE: **Longevity**

### **Life support systems**

UF: Atmosphere (life support)  
 NT: Breathing apparatus  
 RT: Diving equipment  
   Life saving equipment  
   One-atmosphere systems  
   Umbilicals

### **Lifeboats**

UF: Liferrafts  
   Rafts (life)  
   Survival capsules  
 BT: Boats  
 RT: Inflatable craft  
   Life saving equipment  
   Safety devices  
   Survival at sea

Liferrafts

USE: **Lifeboats**

## ASFA THESAURUS

### **Lift-nets**

UF: Scooping gear  
BT: Fishing nets

### **Lifting**

UF: Hoisting  
Loading (operation)  
RT: Lifting tackle

Lifting gear

USE: **Lifting tackle**

### **Lifting tackle**

UF: Lifting gear  
BT: Deck equipment  
NT: Cranes  
Davits  
Winches  
RT: Lifting  
Salvage equipment

### **Ligands**

RT: Ions  
Molecules  
Organometallic complexes

Ligases

USE: **Enzymes**

### **Light**

UF: Light rays  
Visible radiation  
BT: Electromagnetic radiation  
RT: Abiotic factors  
Atmospheric optical phenomena  
Irradiance  
Light absorption  
Light attenuation  
Light fields  
Light intensity  
Light measurement  
Light measuring instruments  
Light penetration  
Light reflection  
Light refraction  
Light scattering  
Light sources  
Light transmission  
Luminescence  
Optical properties  
Optics  
Photoperiodicity  
Photoreceptors  
Phototaxis  
Phototropism  
Radiance  
Solar radiation  
Ultraviolet radiation

### **Light absorption**

SN: Before 1982 search also  
ABSORPTIVITY

UF: Absorption (light)  
BT: Absorption (physics)  
RT: Absorptance  
Absorption coefficient  
Absorption spectra  
Chromatographic techniques  
Extinction coefficient  
Light  
Light attenuation  
Light penetration  
Light propagation  
Light transmission  
Optical filters  
Transmissometers  
Transparency  
Turbidity  
Water colour  
Water transparency

### **Light attenuation**

UF: Attenuation (light)  
BT: Attenuation  
RT: Attenuance  
Extinction coefficient  
Light  
Light absorption  
Light penetration  
Light scattering  
Transmittance  
Turbidity  
Water transparency

### **Light diffraction**

BT: Diffraction  
RT: Holography

### **Light dispersion**

BT: Dispersion  
RT: Light refraction  
Refractive index

Light duration

USE: **Photoperiods**

### **Light effects**

UF: Photoperiod effects  
BT: Environmental effects  
RT: Chromatic behaviour  
Light penetration  
Nyctimeral rhythms  
Optical properties  
Photoperiodicity  
Photoperiods  
Phototaxis  
Phototropism

### **Light fields**

UF: Radiance distribution  
BT: Fields  
RT: Irradiance  
Light  
Light measurement

Radiance

Radiative transfer

### **Light fishing**

SN: Use of light to attract fish  
for capture with different  
types of gears  
BT: Catching methods  
RT: Pump fishing

### **Light intensity**

UF: Light quantity  
RT: Light  
Light penetration  
Optical properties  
Photometry

### **Light measurement**

BT: Measurement  
NT: Photometry  
RT: Colorimetric techniques  
Immersion effects  
Light  
Light fields  
Light measuring instruments

### **Light measuring instruments**

BT: Measuring devices  
NT: Beam transmittance meters  
Cosine collectors  
Irradiance meters  
Photometers  
Quanta meters  
Radiance meters  
Scatterance meters  
Secchi discs  
Transmissometers  
RT: Fluorimeters  
Light  
Light measurement  
Nephelometers  
Optical instruments  
Radiometers  
Turbidimeters

Light microscopes

USE: **Microscopes**

### **Light microscopy**

UF: Optical microscopy  
BT: Microscopy

### **Light minerals**

BT: Minerals  
RT: Heavy minerals

### **Light organs**

SN: Before 1995 search  
PHOTOPHORES  
RT: Photophores

## ASFA THESAURUS

### Light penetration

RT: Absorption coefficient  
 Absorption spectra  
 Aphotic zone  
 Compensation depth  
 Euphotic zone  
 Light  
 Light absorption  
 Light attenuation  
 Light effects  
 Light intensity  
 Light reflection  
 Light refraction  
 Light scattering  
 Phototaxis  
 Phototropism  
 Primary production  
 Solar radiation  
 Spectral composition  
 Transmittance

### Light propagation

RT: Light absorption  
 Light transmission

### Light quantity

USE: **Light intensity**

### Light rays

USE: **Light**

### Light reflection

UF: Reflection (light)  
 BT: Reflection  
 RT: Air-water interface  
 Glitter  
 Light  
 Light penetration  
 Light refraction  
 Reflectance

### Light refraction

SN: Before 1982 search also  
 REFRACTION  
 UF: Refraction (light)  
 BT: Refraction  
 RT: Air-water interface  
 Light  
 Light dispersion  
 Light penetration  
 Light reflection  
 Refractive index  
 Transparency

### Light scattering

UF: Scattering (light)  
 NT: Particle scattering  
 RT: Fluorescence  
 Light  
 Light attenuation  
 Light penetration  
 Nepheloid layer

Particle concentration  
 Polarization  
 Refractive index  
 Scattering coefficient  
 Turbidity  
 Volume scattering function  
 Water transparency

Light sensitive pigments

USE: **Visual pigments**

### Light sources

UF: Underwater light sources  
 RT: Light  
 Lighting systems

### Light stimuli

BT: Stimuli  
 RT: Photoperiodicity  
 Photoreception  
 Photosynthesis  
 Phototaxis  
 Phototropism  
 Vision

### Light transmission

BT: Transmission  
 RT: Light  
 Light absorption  
 Light propagation  
 Optical filters  
 Transparency

Light vessels

USE: **Lightships**

### Lighthouses

BT: Navigational aids

### Lighting systems

UF: Illumination  
 RT: Light sources

### Lightning

BT: Atmospheric electricity  
 RT: Thunderstorms  
 Weather

### Lightships

UF: Light vessels  
 BT: Ships  
 RT: Inshore stations  
 Navigational aids

### Limbs

SN: Legs or limbs of aquatic animals  
 BT: Animal appendages

### Limestone

BT: Carbonate rocks  
 RT: Bioherms

Calcareenite  
 Calcite  
 Dolomitization  
 Marlstone  
 Oolites

### Liming

BT: Scaling

### Limiting factors

UF: Limiting nutrients  
 RT: Anthropogenic factors  
 Ecological distribution  
 Environmental conditions  
 Environmental factors  
 Lethal limits  
 Nutrients (mineral)  
 Tolerance

Limiting nutrients

USE: **Limiting factors**

### Limnological data

BT: Data  
 RT: Bathymetric data  
 Limnological surveys  
 Limnology  
 Water temperature data

### Limnological equipment

BT: Equipment  
 RT: Bathythermographs  
 Collecting devices  
 Laboratory equipment  
 Limnological surveys  
 Limnology  
 Measuring devices  
 Water samplers

### Limnological institutions

BT: Research institutions  
 RT: Biological institutions  
 Fishery institutions  
 Limnology

### Limnological surveys

BT: Environmental surveys  
 RT: Limnological data  
 Limnological equipment  
 Limnology

Limnologists

USE: **Freshwater scientists**

### Limnology

BT: Aquatic sciences  
 NT: Chemical limnology  
 Fishery limnology  
 Palaeolimnology  
 Physical limnology  
 RT: Freshwater sciences

(cont'd)



## ASFA THESAURUS

### *Limnology (cont'd)*

Freshwater scientists  
Hydrography  
Hydrology  
Lakes  
Limnological data  
Limnological equipment  
Limnological institutions  
Limnological surveys  
Ponds  
Water reservoirs

Limnology (biological)  
USE: **Freshwater ecology**

Limnology (chemical)  
USE: **Chemical limnology**

Limnology (physical)  
USE: **Physical limnology**

### **Lindane**

BT: Chlorinated hydrocarbons  
RT: Herbicides  
Insecticides

### **Line fishing**

SN: Any type of fishing using lines, movable or fixed, with or without attached hooks, gorges, or other catching means  
BT: Catching methods  
Fishing  
NT: Handlining  
Jigging  
Longlining  
Pole-line fishing  
Trolling  
RT: Bait  
Bait fishing  
Lines

Line fishing gear  
USE: **Lines**

Line pipe  
USE: **Pipes**

### **Linear programming**

BT: Mathematical programming  
RT: Computer programs  
Econometrics  
Mathematical models

### **Linear waves**

UF: Airy waves  
Infinitesimal waves  
Sinusoidal waves  
BT: Water waves  
RT: Nonlinear waves

### **Liners**

UF: Trollers  
BT: Fishing vessels  
RT: Lines  
Trolling

Liners (passengers)  
USE: **Passenger ships**

### **Lines**

UF: Drift lines  
Hand lines  
Line fishing gear  
Set lines  
Troll lines  
BT: Fishing gear  
NT: Hooks  
RT: Line fishing  
Liners  
Trolling

### **Linoleic acid**

BT: Polyunsaturated fatty acids

### **Lipids**

SN: Before 1982 search FATS  
UF: Derived lipids  
BT: Organic compounds  
NT: Complex lipids  
Fats  
Steroids  
Waxes  
RT: Choline  
Esters  
Lipoproteins

### **Lipoproteins**

SN: Before 1982 search PROTEINS  
BT: Proteins  
RT: Blood  
Lipids  
Lymph

### **Liquefaction**

BT: Fluidization  
RT: Liquefied sediment flow  
Liquids

### **Liquefied natural gas**

UF: LNG  
BT: Natural gas  
RT: Gas processing

### **Liquefied petroleum gas**

UF: LPG  
BT: Fuels  
RT: Gas terminals  
Petroleum

### **Liquefied sediment flow**

BT: Fluidized sediment flow

RT: Grain flow  
Liquefaction

Liquid fish products  
USE: **Fish silage**

### **Liquids**

BT: Fluids  
RT: Gases  
Liquefaction

### **Literature reviews**

UF: Literature surveys  
Review articles  
Reviews (literature)  
State-of-the-art reviews  
RT: Bibliographies  
Documents

Literature surveys  
USE: **Literature reviews**

### **Lithification**

BT: Diagenesis  
RT: Cementation  
Compaction  
Compression  
Consolidation

### **Lithium**

BT: Alkali metals  
RT: Lithium compounds  
Lithium isotopes

### **Lithium compounds**

BT: Alkali metal compounds  
RT: Lithium

### **Lithium isotopes**

BT: Isotopes  
RT: Lithium

### **Lithofacies**

BT: Facies  
RT: Lithology  
Sediments

### **Lithogenesis**

RT: Lithology  
Rocks

### **Lithology**

BT: Geology  
RT: Lithofacies  
Lithogenesis  
Petrology

## ASFA THESAURUS

### Lithosphere

SN: Use as tectonic term. Do not use as part of classification: atmosphere, hydrosphere, lithosphere

BT: Earth structure

RT: Asthenosphere

Benioff zone

Earth crust

Moho

Plate tectonics

Plates

Upper mantle

Lithospheric plates

USE: **Plates**

### Litter

SN: Not used for leaf litter or for brood/offspring of mammals

UF: Garbage

Refuse

Rubbish

Trash

BT: Solid impurities

Wastes

RT: Detritus

Plastic debris

Littoral currents

USE: **Nearshore currents**

### Littoral deposits

BT: Sediments

RT: Longshore sediment transport

Nearshore sedimentation

Littoral drift

USE: **Longshore sediment transport**

Littoral sedimentation

USE: **Nearshore sedimentation**

Littoral states

USE: **Coastal states**

Littoral transport

USE: **Longshore sediment transport**

Littoral zonation

USE: **Ecological zonation**

### Littoral zone

BT: Benthic environment

NT: Eulittoral zone

Sublittoral zone

Supralittoral zone

RT: Beaches

Coastal waters

Coastal zone

Continental shelves

Ecological zonation

Epipelagic zone

Neritic province

Shallow water

Live feed

USE: **Food organisms**

Live food

USE: **Food organisms**

### Live storage

SN: Storage of live fish

BT: Fish storage

Live weight

USE: **Biomass**

### Liver

BT: Digestive glands

RT: Bile

Glycogen

### Livestock food

BT: Food

NT: Feed

### Living fossils

SN: Any organism alive today whose closest relatives are known only as fossils

RT: Fossils

Relict species

Living quarters

USE: **Accommodation**

### Living resources

SN: Applies to both plant and animal resources of the aquatic environment

UF: Aquatic living resources

Biological resources

Biotic natural resources

BT: Natural resources

NT: Botanical resources

Fishery resources

RT: Food resources

Marine resources

Potential resources

Protected resources

Rare resources

Renewable resources

Unconventional resources

LNG

USE: **Liquefied natural gas**

Load pressure

USE: **Loads (forces)**

Loading (operation)

USE: **Lifting**

### Loading buoys

BT: Mooring buoys

RT: Articulated columns

Floating hoses

Offshore terminals

Single point moorings

Tanker loading

### Loads (forces)

UF: Load pressure

BT: Forces (mechanics)

NT: Current forces

Cyclic loading

Dynamic loads

Earthquake loading

Ice loads

Ocean loading

Wave forces

Wave-induced loading

Wind pressure

RT: Ballast

Bearing capacity

Pressure

Weight

### Lobster culture

SN: Before 1982 search

CRUSTACEAN

CULTURE

BT: Crustacean culture

### Lobster fisheries

UF: Cape rock lobster fisheries

Crayfish fisheries

Deep-sea lobster fisheries

Northern lobster fisheries

Rocklobster fisheries

Spiny lobster fisheries

BT: Crustacean fisheries

RT: Trap fishing

Lobster pots

USE: **Pots**

### Local movements

SN: Movements of organisms other than migrational movements, within home range

UF: Movements (local)

RT: Activity patterns

Home range

Homing behaviour

Local names

USE: **Vernacular names**

## ASFA THESAURUS

### Local winds

UF: Bora  
Mistral  
BT: Winds  
NT: Breezes

### Locating

NT: Underwater object location  
RT: Detection  
Dynamic positioning  
Position fixing  
Salvaging  
Search and rescue  
Surveying  
Tracking

### Locations (working)

UF: Working locations  
RT: Offshore operations  
Working underwater

### Lockout submersibles

USE: **Submersibles**

### Locomotion

SN: Including theory of locomotion  
in aquatic organisms  
NT: Flying  
Swimming  
RT: Activity patterns  
Animal navigation  
Cilia  
Locomotory appendages  
Mobility

### Locomotory appendages

UF: Locomotory organs  
BT: Animal appendages  
NT: Fins  
Wings  
RT: Flagella  
Locomotion

### Locomotory organs

USE: **Locomotory appendages**

### Logbooks

UF: Scientific logbooks  
Ships logbooks  
BT: Documents  
RT: Records  
Station lists

### Logging

NT: Well logging

### Long gravity waves

USE: **Shallow water waves**

### Long wave radiation

USE: **Terrestrial radiation**

### Long wave-short wave interactions

USE: **Short wave-long wave interactions**

### Long waves

USE: Shallow water waves

### Long-crested waves

BT: Surface water waves  
RT: Directional spectra  
Short-crested waves  
Wave crests  
Wave direction

### Long-line culture

USE: **Off-bottom culture**

### Long-period seismic waves

USE: **Seismic waves**

### Long-period tides

BT: Tides  
RT: Nodal tides  
Pole tides

### Long-period water waves

USE: **Shallow water waves**

### Long-period waves

USE: **Shallow water waves**

### Long-term changes

UF: Long-term variations  
Secular fluctuations  
BT: Temporal variations  
NT: Sea level changes  
RT: Baseline studies  
Climatic changes  
Long-term records  
Monitoring  
Periodic variations  
Prediction  
Short-term changes

### Long-term planning

BT: Planning  
RT: Short-term planning

### Long-term records

BT: Records  
RT: Long-term changes

### Long-term variations

USE: **Long-term changes**

### Longevity

UF: Life span  
BT: Biological properties  
RT: Biological age  
Biological aging  
Life cycle  
Mortality

### Longitude

BT: Geographical coordinates  
RT: Latitude

### Longitudinal dispersion

BT: Dispersion  
RT: Estuarine dynamics

### Longlining

BT: Line fishing  
RT: Demersal fisheries  
Flatfish fisheries  
Pelagic fisheries

### Longshore bars

BT: Nearshore bars  
RT: Break-point bars

### Longshore currents

SN: Currents bordering coastlines.  
Before 1982 search ONSHORE  
CURRENTS  
BT: Nearshore currents  
RT: Beach cusps  
Coastal jets  
Estuarine dynamics  
Lake currents  
Longshore sediment transport  
Rip currents  
Surf zone  
Tidal currents  
Wave processes on beaches  
Wave-current interaction  
Wind-driven currents

### Longshore drift

USE: **Longshore sediment transport**

### Longshore sand transport

USE: **Longshore sediment transport**

### Longshore sediment transport

SN: Before 1982 search also  
LONGSHORE SAND  
TRANSPORT  
UF: Littoral drift  
Littoral transport  
Longshore drift  
Longshore sand transport  
BT: Sediment transport  
RT: Beach nourishment  
Littoral deposits  
Longshore currents

### Lophophores

SN: Filter feeding organs  
BT: Alimentary organs  
RT: Filter feeders

## ASFA THESAURUS

### **Loran**

BT: Radio navigation  
RT: Navigational tables

### **Lotic environment**

BT: Inland water environment  
RT: Benthic environment  
    Lenitic environment  
    Rivers  
    Spring streams  
    Water springs

### **Love waves**

BT: Surface seismic waves

### **Low frequency**

BT: Frequency  
RT: High frequency

### **Low pressure systems**

NT: Cyclones  
    Low pressure troughs  
RT: Atmospheric disturbances  
    Atmospheric pressure  
    Tornadoes

### **Low pressure troughs**

BT: Low pressure systems  
NT: Equatorial trough

### **Low temperature**

BT: Temperature  
RT: Metamorphism

### **Low tide**

UF: Low water  
BT: Tides  
RT: Ebb currents  
    High tide

### **Low water**

USE: **Low tide**

### **Low-velocity layer**

BT: Seismic layers  
RT: Asthenosphere  
    Seismic velocities

### **Lower mantle**

BT: Earth mantle  
RT: Upper mantle

### **Lower tertiary**

USE: **Palaeogene**

### **Lowest astronomical tides**

USE: **Astronomical tides**

### **LPG**

USE: **Liquefied petroleum gas**

### **Lubricants**

RT: Fuels

### **Luciferin**

UF: Photophelein  
BT: Proteins  
RT: Luminous organisms

### **Luminescence**

NT: Bioluminescence  
    Chemiluminescence  
    Fluorescence  
    Phosphorescence  
RT: Chemical properties  
    Electrical properties  
    Electromagnetic radiation  
    Light  
    Luminous organisms

### **Luminescent organs**

USE: **Photophores**

### **Luminous organisms**

BT: Aquatic organisms  
RT: Luciferin  
    Luminescence  
    Photophores  
    Plankton

### **Luminous organs**

USE: **Photophores**

### **Lunar cycles**

USE: **Moon phases**

### **Lunar diurnal tides**

USE: **Diurnal tides**

### **Lunar effects**

USE: **Moon phases**

### **Lunar semidiurnal tides**

USE: **Semidiurnal tides**

### **Lunar tides**

SN: Before 1982 search TIDES  
BT: Tides  
RT: Meteorological tides  
    Tidal constituents

### **Lungs**

SN: Before 1982 search  
    RESPIRATORY ORGANS  
BT: Respiratory organs  
RT: Aerobic respiration

### **Lures**

USE: **Bait**

### **Luring**

USE: **Attracting techniques**

### **Lutetium**

BT: Lanthanides

### **Lutites**

RT: Argillaceous deposits  
    Bentonite  
    Marlstone  
    Mudstone  
    Shale  
    Silt  
    Siltstone

### **Lyases**

SN: Before 1982 search ENZYMES  
BT: Enzymes

### **Lymph**

SN: Before 1982 search BODY  
    FLUIDS  
BT: Body fluids  
RT: Lipoproteins  
    Lymphatic system  
    Lymphocytes

### **Lymph system**

USE: **Lymphatic system**

### **Lymph vessels**

USE: **Lymphatic system**

### **Lymphatic system**

UF: Lymph system  
    Lymph vessels  
BT: Anatomical structures  
RT: Lymph

### **Lymphocytes**

BT: Blood cells  
RT: Lymph  
    Spleen

### **Lysine**

BT: Amino acids

### **Lysocline**

BT: Discontinuity layers  
RT: Carbonate compensation depth  
    Clines

### **Lysosomes**

BT: Cell organelles

### **Machinery**

NT: Harvesting machines  
    Pumps  
RT: Equipment  
    Mechanization

### **Mackerel fisheries**

BT: Finfish fisheries  
RT: Tuna fisheries

## ASFA THESAURUS

Macrobenthos

USE: **Benthos**

### **Macrophages**

SN: A large phagocytic cell

BT: Blood cells

RT: Phagocytosis

Macroplankton

USE: **Zooplankton**

### **Mafic magma**

UF: Mafics

BT: Magma

Mafics

USE: **Mafic magma**

### **Magma**

UF: Magmatism

NT: Mafic magma

RT: Asthenosphere

Hot spots

Igneous rocks

Magma chambers

Volcanism

### **Magma chambers**

UF: Magma reservoirs

RT: Igneous intrusions

Magma

Magma reservoirs

USE: **Magma chambers**

Magmatism

USE: **Magma**

### **Magnesite**

BT: Carbonate minerals

### **Magnesium**

BT: Alkaline earth metals

RT: Barium

Ferromanganese nodules

Magnesium compounds

Magnesium isotopes

### **Magnesium compounds**

BT: Alkaline earth metal compounds

NT: Magnesium silicates

Magnesium sulphates

RT: Magnesium

### **Magnesium isotopes**

BT: Isotopes

RT: Magnesium

### **Magnesium silicates**

BT: Magnesium compounds

Silicates

### **Magnesium sulphates**

BT: Magnesium compounds

Sulphates

### **Magnetic anomalies**

BT: Anomalies

RT: Geomagnetic field

Gravity anomalies

Magnetic anomaly charts

Magnetic data

Magnetic exploration

Palaeomagnetism

Seafloor spreading

### **Magnetic anomaly charts**

BT: Magnetic charts

RT: Magnetic anomalies

### **Magnetic charts**

BT: Geological maps

NT: Magnetic anomaly charts

RT: Magnetic data

Magnetic exploration

Magnetic intensity

Magnetic variations

Magnetic compasses

USE: **Compasses**

Magnetic core orientation

USE: **Core orientation**

### **Magnetic data**

BT: Geophysical data

RT: Magnetic anomalies

Magnetic charts

Magnetic declination

USE: **Magnetic variations**

Magnetic dip

USE: **Magnetic inclination**

### **Magnetic exploration**

UF: Geomagnetic surveys

Magnetic surveys

BT: Geophysical exploration

RT: Aeromagnetic surveys

Coast effect

Magnetic anomalies

Magnetic charts

Magnetometers

Magnetic field (earth)

USE: **Geomagnetic field**

### **Magnetic field elements**

BT: Magnetic properties

NT: Magnetic inclination

Magnetic intensity

Magnetic variations

RT: Geomagnetic field

### **Magnetic fields**

NT: Geomagnetic field

RT: Electromagnetic radiation

Magnetism

Magnets

### **Magnetic inclination**

UF: Magnetic dip

BT: Magnetic field elements

### **Magnetic intensity**

BT: Magnetic field elements

RT: Magnetic charts

Magnetic particle testing

USE: **Nondestructive testing**

### **Magnetic properties**

BT: Physical properties

NT: Magnetic field elements

Magnetic susceptibility

Remanent magnetization

RT: Magnetism

Magnets

Magnetic remanence

USE: **Remanent magnetization**

### **Magnetic reversals**

UF: Geomagnetic reversals

RT: Geomagnetic field

Magnetostratigraphy

Palaeomagnetism

Pole positions

Magnetic spherules

USE: **Cosmic spherules**

Magnetic stratigraphy

USE: **Magnetostratigraphy**

Magnetic surveys

USE: **Magnetic exploration**

### **Magnetic susceptibility**

BT: Magnetic properties

RT: Anisotropy

Geomagnetic field

Palaeomagnetism

### **Magnetic tape recordings**

RT: Audio recordings

Magnetic tapes

Records

Videotape recordings

### **Magnetic tapes**

RT: Audiovisual materials

Magnetic tape recordings

## ASFA THESAURUS

### **Magnetic variations**

UF: Magnetic declination  
Variations (magnetic)  
BT: Magnetic field elements  
RT: Magnetic charts

### **Magnetism**

NT: Electromagnetism  
Geomagnetism  
Palaeomagnetism  
RT: Magnetic fields  
Magnetic properties  
Magnets

### **Magnetite**

BT: Oxide minerals  
RT: Cosmic spherules  
Iron oxides  
Placers

### **Magnetometers**

BT: Measuring devices  
RT: Geomagnetism  
Geophysical equipment  
Magnetic exploration

### **Magnetostratigraphy**

UF: Magnetic stratigraphy  
BT: Stratigraphy  
RT: Magnetic reversals

### **Magnetotelluric methods**

UF: Magnetotelluric surveys  
RT: Coast effect  
Electrical resistivity  
Electromagnetic exploration  
Geomagnetic field  
Geomagnetism  
Telluric currents

Magnetotelluric surveys

USE: **Magnetotelluric methods**

### **Magnets**

RT: Magnetic fields  
Magnetic properties  
Magnetism

### **Maintenance and repair**

SN: Before 1995, search also  
MAINTENANCE; REPAIR;  
REPLACING  
UF: Repair  
Replacing  
RT: Corrosion control  
Damage  
Deterioration  
Fouling control  
Inspection  
Restoration

### **Major constituents**

RT: Composition

### **Major elements**

### **Malacologists**

BT: Zoologists  
RT: Fishery biologists  
Malacology  
Taxonomists

### **Malacology**

BT: Invertebrate zoology  
RT: Conchology  
Freshwater molluscs  
Hydrobiology  
Malacologists  
Marine molluscs  
Shells

### **Malaria**

UF: Paludism  
BT: Human diseases  
RT: Parasitic diseases  
Protozoan diseases

### **Males**

BT: Sex  
RT: Females

Malformations

USE: **Abnormalities**

### **Mammalian physiology**

UF: Physiology (aquatic mammals)  
BT: Animal physiology  
RT: Aquatic mammals  
Mammalogy

### **Mammalogists**

BT: Zoologists  
RT: Aquatic mammals  
Mammalogy

### **Mammalogy**

BT: Vertebrate zoology  
NT: Cetology  
RT: Aquatic mammals  
Mammalian physiology  
Mammalogists

Mammals (aquatic)

USE: **Aquatic mammals**

Mammals (marine)

USE: **Marine mammals**

### **Man-induced effects**

SN: Effects of human activities on  
aquatic ecosystems  
UF: Anthropogenic effects  
Human impact

RT: Environmental impact  
Pollution effects

Man-made disasters

USE: **Accidents**

Man-made lakes

USE: **Artificial lakes**

### **Management**

SN: Use of a more specific term is  
recommended  
UF: Administration  
NT: Ecosystem management  
Environment management  
Financial management  
Production management  
Resource management  
RT: Marketing  
Personnel  
PERT  
Planning

Maneuverability

USE: **Manoeuvrability**

### **Manganese**

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Ferromanganese oxides  
Manganese compounds  
Manganese isotopes  
Metalliferous sediments

### **Manganese compounds**

BT: Chemical compounds  
NT: Manganese dioxide  
Manganese oxides  
RT: Manganese

### **Manganese deposits**

BT: Chemical sediments  
RT: Ferromanganese nodules  
Manganese oxides

### **Manganese dioxide**

BT: Manganese compounds  
Manganese oxides

### **Manganese isotopes**

BT: Isotopes  
RT: Manganese

### **Manganese minerals**

BT: Minerals  
RT: Pyrolusite

Manganese nodules

USE: **Ferromanganese nodules**

## ASFA THESAURUS

### Manganese oxides

BT: Manganese compounds  
Oxides  
NT: Ferromanganese oxides  
Manganese dioxide  
RT: Manganese deposits

### Mangrove swamps

SN: Mangrove aquatic environment  
and its communities  
BT: Swamps  
RT: Brackishwater ecology  
Brackishwater environment  
Mangroves

### Mangroves

RT: Mangrove swamps

### Manifolds

SN: Seabed multiple flowline  
connectors  
RT: Connectors  
Flowlines  
Wellheads

### Manipulators

RT: Diving suits  
Robots  
Underwater vehicles

### Manned submersibles

USE: **Submersibles**

### Manned vehicles

UF: Diving chambers  
Diving vehicles  
BT: Underwater vehicles  
NT: Diving bells  
Observation chambers  
Submarines  
Submersibles  
RT: Unmanned vehicles

### Mannose

BT: Monosaccharides  
RT: Aldehydes

### Manoeuvrability

UF: Maneuverability  
RT: Propulsion systems  
Ship handling  
Steering systems  
Vehicles

### Manometers

BT: Measuring devices  
RT: Barometers  
Pressure  
Pressure gauges

### Manpower resources

USE: **Human resources**

### Mantle

SN: Fold of epidermal tissue  
covering dorsal or lateral  
surfaces of the body of the  
Mollusca and Brachiopoda; body  
wall of the Urochordata. For  
earth mantle use EARTH  
MANTLE  
BT: Body walls  
RT: Gills  
Mantle cavity  
Shells

### Mantle (earth)

USE: **Earth mantle**

### Mantle cavity

BT: Body cavities  
RT: Gills  
Mantle

### Mantle convection

BT: Convection  
RT: Cellular convection  
Earth mantle  
Heat flow  
Mantle plumes  
Plate tectonics  
Seafloor spreading

### Mantle plumes

BT: Plumes  
RT: Diverging plate boundaries  
Earth mantle  
Hot spots  
Mantle convection  
Plate divergence  
Plate tectonics

### Manuals

SN: Documents containing  
instructions and/or procedures  
for performing operations or  
handling equipment  
UF: Instrument handbooks  
BT: Documents  
RT: Methodology  
Training aids

### Manufacturing costs

USE: **Operational costs**

### Manure

SN: Any substance, usually of  
natural origin, used as  
fertilizer  
UF: Animal manure  
Artificial manure  
Dung  
Manurial salts  
BT: Animal products  
Organic fertilizers

RT: Guano  
Wastes

### Manurial salts

USE: **Manure**

### Manuscripts (historical)

USE: **Documents**

### Map graphics

SN: Cartographic representation of  
data on maps. Use of a more  
specific term is recommended  
BT: Graphics  
NT: Current roses  
Isopleths  
Streamlines  
Vertical sections  
Wind roses  
Wind vectors  
RT: Cartography  
Hodographs

### Map projections

RT: Cartography  
Geographical coordinates  
Maps

### Mapping

SN: Mapping of aquatic and  
terrestrial environments.  
Before 1982 search CHARTING  
for aquatic environments  
UF: Charting (distributions)  
Charting (environmental  
conditions)  
NT: Seafloor mapping  
RT: Cartography  
Geography  
Maps  
Plotting  
Surveying  
Surveys  
Topography

### Maps

SN: Before 1982 search also  
CHARTS (MAPS)  
UF: Charts (maps)  
BT: Graphics  
NT: Biological charts  
Climatological charts  
Control charts  
Environmental charts  
Fishery charts  
Geological maps  
Hydrographic charts  
Meteorological charts  
Navigational charts  
Pollution maps  
Topographic maps

(cont'd)

## ASFA THESAURUS

### *Maps (cont'd)*

Track charts

RT: Atlases

Cartography

Chart datum

Map projections

Mapping

### **Marginal basins**

UF: Back-arc basins

Inter-arc basins

BT: Structural basins

RT: Active margins

Continental slope

Forearc basins

Island arcs

Marginal seas

Subduction

### **Marginal fields**

BT: Oil and gas fields

### **Marginal seas**

UF: Adjacent seas

Deep adjacent seas

BT: Oceans

NT: Semi-enclosed seas

Shelf seas

RT: Anoxic basins

Coastal waters

Hydrosphere

Marginal basins

Margins (continental)

USE: **Continental margins**

Margins (plate)

USE: **Plate margins**

Mariculture

USE: **Marine aquaculture**

Marigram

USE: **Tidal curves**

### **Marinas**

UF: Yacht harbours

BT: Artificial harbours

RT: Recreational waters

Yachts

Marinated products

USE: **Cured products**

### **Marine accidents**

BT: Accidents

NT: Capsizing

Drowning

Groundings

RT: Diving accidents

Survival at sea

Marine advection

USE: **Advection**

Marine aerosols

USE: **Aerosols**

### **Marine aquaculture**

UF: Coastal aquaculture

Mariculture

Ocean farming

Open sea aquaculture

Sea farming

BT: Aquaculture

RT: Algal culture

Cage culture

Coral farming

Fish culture

Marine fish

Seaweed culture

Shellfish culture

Sponge culture

Marine archaeology

USE: **Archaeology**

Marine biological noise

USE: **Biological noise**

Marine biologists

USE: **Marine ecologists**

Marine biology

USE: **Marine ecology**

Marine biotelemetry

USE: **Biotelemetry**

### **Marine birds**

UF: Birds (marine)

BT: Aquatic birds

Marine organisms

NT: Guano birds

Marine chemistry

USE: **Chemical oceanography**

Marine crab culture

USE: **Crab culture**

### **Marine crustaceans**

UF: Crustaceans (marine)

BT: Marine organisms

Shellfish

RT: Crustacean culture

Crustacean fisheries

Crustacean larvae

### **Marine ecologists**

UF: Marine biologists

BT: Ecologists

RT: Marine ecology

### **Marine ecology**

UF: Biological oceanography

Marine biology

Oceanology (biological)

BT: Ecology

Marine sciences

RT: Aquatic communities

Environmental factors

Marine ecologists

Oceanography

Marine engineering

USE: **Ship technology**

### **Marine environment**

SN: Related to oceans and seas

UF: Ocean environment

BT: Aquatic environment

NT: Intertidal environment

RT: Aphotic zone

Benthic environment

Brackishwater environment

Coastal zone

Continental shelves

Coral reefs

Euphotic zone

Eutrophic waters

Marine fish

Oceanography

Pelagic environment

Sea water

### **Marine fish**

BT: Fish

Marine organisms

NT: Reef fish

RT: Demersal fisheries

Marine aquaculture

Marine environment

Marine fisheries

Tropical fish

### **Marine fisheries**

UF: Sea fisheries

BT: Fisheries

NT: Deep-sea fisheries

High seas fisheries

Pelagic fisheries

Reef fisheries

RT: Carangid fisheries

Cephalopod fisheries

Coastal fisheries

Demersal fisheries

Echinoderm fisheries

Estuarine fisheries

Finfish fisheries

Gastropod fisheries

Marine fish

Shellfish fisheries

Sponge fisheries

Tuna fisheries



## ASFA THESAURUS

Marine fittings  
USE: **Shipboard equipment**

Marine foundations  
USE: **Foundations**

**Marine geodesy**  
BT: Geodesy  
Marine sciences  
RT: Coastal geodesy  
Dynamical oceanography  
Surface topography

**Marine geology**  
UF: Geological oceanography  
Submarine geology  
BT: Geology  
Marine sciences  
NT: Shelf geology  
RT: Oceanic crust  
Oceanography  
Sedimentology  
Stratigraphy  
Tectonics

Marine insurance  
USE: **Insurance**

**Marine invertebrates**  
BT: Aquatic animals  
Marine organisms

**Marine mammals**  
SN: Before 1982 search AQUATIC  
MAMMALS  
UF: Mammals (marine)  
BT: Aquatic mammals  
Marine organisms

Marine meteorology  
USE: **Meteorology**

**Marine molluscs**  
UF: Molluscs (marine)  
Mollusks (marine)  
BT: Marine organisms  
Shellfish  
RT: Malacology  
Mollusc culture  
Mollusc fisheries

**Marine organisms**  
BT: Aquatic organisms  
NT: Marine birds  
Marine crustaceans  
Marine fish  
Marine invertebrates  
Marine mammals  
Marine molluscs  
Seaweeds  
RT: Marine resources

**Marine parks**  
SN: Marine areas protected against  
human impact  
UF: Marine reserves  
Nature reserves  
Parks  
RT: Protected resources  
Recreational waters  
Refuges  
Sanctuaries

Marine physics  
USE: **Physical oceanography**

Marine policy  
USE: **Ocean policy**

**Marine pollution**  
BT: Water pollution  
RT: Groundwater pollution  
Ocean dumping

Marine propulsion  
USE: **Propulsion systems**

Marine regressions  
USE: **Regressions**

Marine reserves  
USE: **Marine parks**

**Marine resources**  
BT: Natural resources  
RT: Food resources  
Living resources  
Marine organisms  
Mineral resources  
Renewable resources

Marine risers  
USE: **Riser pipes**

**Marine sciences**  
BT: Aquatic sciences  
NT: Marine ecology  
Marine geodesy  
Marine geology  
Oceanography  
RT: Algology  
Fishery sciences  
Hydrobiology  
Marine scientists  
Marine technology  
Planktonology

**Marine scientists**  
UF: Oceanographers  
BT: Scientific personnel  
RT: Marine sciences

Marine sedimentation  
USE: **Sedimentation**

Marine shrimp culture  
USE: **Shrimp culture**

**Marine snow**  
SN: Large, fragile, flocculent,  
rapidly sinking detrital organic  
aggregates, usually comprising a  
matrix of bacteria,  
phytoplankton, and protozoa; site  
of photosynthesis and nutrient  
regeneration, and an important  
food source for some  
zooplankton species. Before  
1995 search SUSPENDED  
PARTICULATE MATTER  
RT: Algal blooms  
Suspended particulate matter

Marine structures  
USE: **Offshore structures**

**Marine technology**  
BT: Technology  
RT: Coastal engineering  
Marine sciences  
Offshore engineering

Marine transgressions  
USE: **Transgressions**

**Marine transportation**  
SN: All forms of waterborne  
transportation  
BT: Transportation  
RT: Shipping  
Shipping lanes

Marine water  
USE: **Sea water**

**Maritime legislation**  
BT: Legislation  
RT: Fishery regulations

Maritime space  
USE: **Ocean space**

Maritime structures  
USE: **Hydraulic structures**

**Marker buoys**  
BT: Buoys  
Navigational aids

Market crab fisheries  
USE: **Crab fisheries**

Market management  
USE: **Production management**

Market prices  
USE: **Pricing**

## ASFA THESAURUS

### Market research

UF: Marketing research  
RT: Cost analysis  
Marketing  
Pricing

### Marketing

SN: All aspects related to the structure, process and logistics as well as performance of marketing system  
UF: Commercialization  
Marketing and distribution  
Markets  
RT: Financing  
Management  
Market research  
Pricing  
Product development  
Trade

Marketing and distribution

USE: **Marketing**

Marketing legislation

USE: **Commercial legislation**

Marketing research

USE: **Market research**

Markets

USE: **Marketing**

### Marking

SN: Any procedure which makes fish subsequently identifiable which does not employ the use of tags  
UF: Electrophoretic marking  
NT: Cold branding  
RT: Staining  
Tagging

### Marl

RT: Argillaceous deposits  
Clays  
Marlstone  
Mud  
Sedimentary rocks

### Marlstone

BT: Clastics  
Sedimentary rocks  
RT: Argillaceous deposits  
Limestone  
Lutites  
Marl

Marsden chart

USE: **Marsden squares**

### Marsden squares

UF: Marsden chart  
BT: Geographical reference systems  
RT: Geographical coordinates  
Meteorological data  
Oceanographic data

### Marshes

UF: Bogs  
BT: Wetlands  
NT: Salt marshes  
RT: Lenitic environment  
Shallow water  
Swamps

Mascaret

USE: **Tidal bores**

### Mass

BT: Physical properties  
RT: Conservation of mass  
Weight

### Mass culture

SN: Culture of organisms in large number. Before 1982 search PHYTOPLANKTON CULTURE  
BT: Aquaculture techniques  
RT: Algal culture  
Brine shrimp culture  
Crustacean culture  
Phytoplankton culture  
Shrimp culture

### Mass extinctions

RT: Climatic changes  
Fish kill  
  
Species extinction

### Mass gravity transport (sediments)

SN: Use of a more specific term is recommended  
BT: Sediment transport  
NT: Debris flow  
Slumping

Mass mortality

USE: **Fish kill**

### Mass movement

BT: Sediment movement  
NT: Slides  
RT: Creep  
Mass transport  
Sediment transport  
Slope stability

### Mass spectroscopy

BT: Spectroscopic techniques

### Mass transfer

RT: Convection  
Diffusion  
Energy transfer  
Osmosis

Mass transfer (air-water exchanges)

USE: **Moisture transfer**

### Mass transport

UF: Mass transport (water waves)  
BT: Transport  
RT: Mass movement  
Sverdrup transport  
Wave drift velocity

Mass transport (water currents)

USE: **Volume transport**

Mass transport (water waves)

USE: **Mass transport**

Mass transport velocity

USE: **Wave drift velocity**

### Masticatory stomach

BT: Stomach

### Masts

SN: Use only for masts on buoys to carry an array of meteorological instruments  
UF: Buoy masts  
RT: Buoys

### Materials

SN: Use of a more specific term is recommended  
NT: Alloys  
Biogenic material  
Buoyancy materials  
Ceramics  
Coating materials  
Composite materials  
Construction materials  
Fibre glass  
Gear materials  
Hazardous materials  
Insulating materials  
Isotropic materials  
Packing materials  
Plastics  
Radioactive materials  
Raw materials  
Rubber  
Wood  
RT: Components  
Materials technology  
Materials testing

Materials science

USE: **Materials technology**

## ASFA THESAURUS

### Materials technology

UF: Materials science  
BT: Technology  
RT: Materials  
Materials testing

### Materials testing

BT: Testing  
NT: Nondestructive testing  
RT: Materials  
Materials technology

### Mathematical analysis

BT: Analysis  
NT: Convolution  
Deconvolution  
Fourier analysis  
Numerical analysis  
Spectral analysis  
Statistical analysis  
RT: Green's function  
Mathematics  
Structural analysis

### Mathematical models

UF: Compartmental models  
Computer models  
Numerical models  
Stochastic models  
BT: Models  
NT: Economic models  
Statistical models  
Tidal models  
RT: Algorithms  
Analogues  
Boundary conditions  
Formulae  
Game theory  
Linear programming  
Mathematics  
Operations research  
Probability theory  
Scale models  
Stochastic processes  
System analysis

### Mathematical programming

BT: Operations research  
NT: Linear programming  
RT: Game theory  
Modelling

Mathematical tables

USE: **Tables**

### Mathematics

RT: Biometrics  
Computation  
Eigenfunctions  
Equations  
Mathematical analysis  
Mathematical models

Numerical analysis  
Statistics

Maturation

USE: **Sexual maturity**

### Maximum entropy spectral analysis

BT: Spectral analysis

Maximum sustainable yield

USE: **Potential yield**

### Mean sea level

SN: Before 1982 search SEA  
LEVEL  
BT: Sea level  
RT: Geodesy  
Geoid  
Levelling  
Tidal datum

### Meandering

BT: Water motion  
NT: Current meandering  
RT: Fluid motion  
River meanders

Meandering (currents)

USE: **Current meandering**

Meanders (current)

USE: **Current rings**

Meanders (rivers)

USE: **River meanders**

Means

USE: **Resources**

### Measurement

UF: Measuring  
Measuring techniques  
NT: Calorimetry  
Density measurement  
Depth measurement  
Flow measurement  
Geochronometry  
Granulometry  
Gravimetry  
Hygrometry  
Light measurement  
Photogrammetry  
Pressure measurement  
Salinity measurement  
Sound measurement  
Telemetry  
Temperature measurement  
Water level measurement  
RT: Accuracy  
Methodology

Measuring

USE: **Measurement**

### Measuring devices

SN: Apparatus for measuring  
distance, volume, weight, etc.  
UF: Measuring equipment  
Measuring instruments  
Micrometer calipers  
BT: Equipment  
NT: Altimeters  
Barometers  
Bathymeters  
Chronometers  
Compasses  
Density measuring equipment  
Flow measuring equipment  
Gauges  
Gravity meters  
Hydrometers  
Hygrometers  
Light measuring instruments  
Magnetometers  
Manometers  
Mesh gauges  
Nephelometers  
Penetrometers  
Pressure gauges  
Radiometers  
Respirometers  
Salinity measuring equipment  
Scatterometers  
Seismometers  
Slope indicators  
Speedometers  
Tellurometers  
Tensometers  
Thermometers  
Turbidimeters  
Wave measuring equipment  
RT: Instruments  
Laboratory equipment  
Limnological equipment  
Oceanographic equipment  
Recording equipment  
Sensors  
Test equipment

Measuring equipment

USE: **Measuring devices**

Measuring instruments

USE: **Measuring devices**

Measuring techniques

USE: **Measurement**

Mechanical bathythermographs

USE: **Bathythermographs**

## ASFA THESAURUS

### **Mechanical properties**

BT: Physical properties  
 NT: Brittleness  
   Compressibility  
   Deformation  
   Elasticity  
   Flexibility  
   Strength  
   Toughness  
   Viscosity  
   Yield point  
 RT: Anisotropy  
   Stress (mechanics)  
   Stress-strain relations

### **Mechanical stimuli**

BT: Stimuli  
 RT: Auditory organs  
   Lateral line  
   Mechanoreceptors

### **Mechanics**

BT: Physics  
 NT: Dynamics  
   Fluid mechanics  
   Hydraulics  
   Kinematics  
   Kinetics  
   Rheology  
   Rock mechanics  
   Soil mechanics  
 RT: Momentum

### **Mechanization**

RT: Automation  
   Machinery

### **Mechanoreceptors**

SN: Sense organs specialized to respond to mechanical stimuli such as pressure or deformation  
 BT: Sense organs  
 RT: Lateral line  
   Mechanical stimuli  
   Pressure effects

### **Median valleys**

SN: Before 1982 search RIFT  
   VALLEYS  
 BT: Rift valleys  
 RT: Escarpments  
   Mid-ocean ridges  
   Plate divergence  
   Seafloor spreading  
   Submarine scarps

### **Medical practice**

USE: **Medicine**

### **Medicine**

SN: Restricted to marine and underwater medical practice

UF: Life sciences (medicine)

  Medical practice  
 BT: Health and safety  
 NT: Aetiology  
   Underwater medicine  
 RT: Biotechnology  
   Diseases  
   Drugs  
   Human physiology  
   Immunology  
   Pharmacology  
   Public health  
   Symptoms  
   Therapy

### **Meetings**

USE: **Conferences**

### **Megalopae**

USE: **Megalops**

### **Megalops**

UF: Megalopae  
 BT: Crustacean larvae

### **Megaripples**

USE: **Sand waves**

### **Meiobenthic organisms**

USE: **Meiobenthos**

### **Meiobenthos**

SN: Benthic micrometazoans and foraminiferans between 63 microns and 500 microns in size  
 UF: Meiobenthic organisms  
   Meiofauna  
 BT: Benthos  
 RT: Sand

### **Meiofauna**

USE: **Meiobenthos**

### **Meiosis**

UF: Reduction division  
 BT: Cell division  
 RT: Chromosomes  
   Karyology  
   Mitosis  
   Nuclei

### **Melanges**

RT: Boudinage  
   Debris flow  
   Deformation  
   Olistostromes  
   Sediments

### **Melanophores**

USE: **Chromatophores**

### **Melt water**

BT: Water  
 RT: Ice melting  
   Icebergs

### **Melting**

BT: Phase changes  
 NT: Ice melting  
 RT: Freezing  
   Melting point  
   Solidification  
   Sublimation

### **Melting point**

BT: Transition temperatures  
 RT: Melting

### **Membranes**

NT: Biological membranes  
   Cell membranes

### **Membranes (biological)**

USE: **Biological membranes**

### **Membranes (cells)**

USE: **Cell membranes**

### **Merchant ships**

UF: Cargo ships  
 BT: Ships  
 NT: Bulk carriers  
   Container ships  
   Passenger ships  
   Selected ships  
   Tanker ships  
 RT: Cargoes

### **Mercury**

SN: Before 1982 search also MERCURY (METAL)  
 UF: Mercury (metal)  
 BT: Heavy metals  
 RT: Mercury compounds  
   Mercury isotopes

### **Mercury (metal)**

USE: **Mercury**

### **Mercury compounds**

BT: Chemical compounds  
 RT: Mercury  
   Organometallic compounds

### **Mercury isotopes**

BT: Isotopes  
 RT: Mercury

### **Meridional atmospheric circulation**

BT: Atmospheric circulation  
 RT: Meridional oceanic circulation

## ASFA THESAURUS

### Meridional distribution

SN: Distribution North-South along lines of longitude. Used only as a qualifier  
 BT: Geographical distribution  
 RT: Hydrographic sections  
 Latitudinal variations  
 Meridional oceanic circulation  
 Zonal distribution

### Meridional oceanic circulation

SN: North-South component of ocean circulation as seen in vertical section  
 BT: Ocean circulation  
 RT: Meridional atmospheric circulation  
 Meridional distribution  
 Vertical water movement

Meristic characters

USE: **Meristic counts**

### Meristic counts

UF: Meristic characters  
 NT: Fin ray counts  
 Gillraker counts  
 Vertebrae counts  
 RT: Bony fins  
 Numerical taxonomy  
 Stock identification  
 Taxonomy

### Meromictic lakes

BT: Lakes  
 RT: Meromixis

### Meromixis

RT: Meromictic lakes

### Meroplankton

UF: Temporary plankton  
 BT: Zooplankton  
 RT: Ichthyoplankton  
 Larvae  
 Veligers

### Mesh gauges

BT: Measuring devices  
 RT: Mesh regulations  
 Mesh selectivity

### Mesh regulations

BT: Fishery regulations  
 RT: Mesh gauges  
 Mesh selectivity  
 Size-limit regulations

### Mesh selectivity

BT: Gear selectivity  
 RT: Mesh gauges  
 Mesh regulations

### Mesocosms

RT: Microcosms

### Mesopelagic zone

SN: Waters between about 200 and 500 m depth  
 BT: Oceanic province  
 RT: Bathyal-benthic zone  
 Euphotic zone

### Mesoscale eddies

SN: Oceanic eddies of the order 100 km diameter  
 UF: Mid-ocean eddies  
 BT: Oceanic eddies  
 RT: Baroclinic instability  
 Conservation of vorticity  
 Current meandering  
 Eddy kinetic energy  
 Mesoscale features

### Mesoscale features

UF: Mesoscale motion  
 NT: Frontal features  
 RT: Current meandering  
 Mesoscale eddies

Mesoscale motion

USE: **Mesoscale features**

### Mesozoic

SN: Before 1982 search  
 MESOZOIC ERA  
 BT: Geological time  
 NT: Cretaceous  
 Jurassic  
 Triassic  
 RT: Phanerozoic

Messengers (chemicals)

USE: **Hormones**

### Messinian

UF: Messinian events  
 BT: Miocene  
 RT: Palaeosalinity

Messinian events

USE: **Messinian**

Metabolic diseases

USE: **Metabolic disorders**

### Metabolic disorders

UF: Metabolic diseases  
 BT: Diseases  
 RT: Metabolism  
 Nutrition disorders

Metabolic processes

USE: **Metabolism**

Metabolic rate

USE: **Metabolism**

### Metabolism

UF: Metabolic processes  
 Metabolic rate  
 NT: Anabolism  
 Animal metabolism  
 Catabolism  
 Plant metabolism  
 RT: Aestivation  
 Allometry  
 Biochemical oxygen demand  
 Biochemical phenomena  
 Bioenergetics  
 Body temperature  
 Digestion  
 Dormancy  
 Endocrinology  
 Energy flow  
 Enzymatic activity  
 Enzyme inhibitors  
 Glands  
 Growth  
 Hibernation  
 Hormones  
 Metabolic disorders  
 Metabolites  
 Nutrition  
 Oxygen consumption  
 Oxygen demand  
 Physiology  
 Radionuclide kinetics  
 Respiration  
 Water balance

### Metabolites

RT: Biological poisons  
 Ectocrines  
 Metabolism

### Metal fatigue

BT: Fatigue (materials)  
 RT: Stress corrosion

### Metal ions

BT: Ions  
 RT: Metals

### Metalimnion

UF: Seasonal thermocline (lakes)  
 Thermocline (lakes)  
 RT: Epilimnion  
 Hypolimnion  
 Intermediate water masses  
 Seasonal thermocline  
 Thermal stratification  
 Thermocline

Metallic elements

USE: **Metals**

## ASFA THESAURUS

Metalliferous brines

USE: **Hot brines**

### **Metalliferous sediments**

BT: Chemical sediments

RT: Copper

Hot brines

Hydrothermal deposits

Iron

Lead

Manganese

Metallogenesis

Mineral resources

Seabed deposits

Silver

Sulphide deposits

Zinc

### **Metallogenesis**

UF: Metallogeny

RT: Metalliferous sediments

Mineral deposits

Metallogeny

USE: **Metallogenesis**

### **Metallothioneins**

BT: Proteins

### **Metallurgy**

BT: Technology

RT: Alloys

Mineral resources

### **Metals**

UF: Metallic elements

Metals (chemical elements)

BT: Chemical elements

NT: Alkali metals

Alkaline earth metals

Heavy metals

Rare earths

Transition elements

Transuranic elements

RT: Alloys

Chelates

Metal ions

Organometallic complexes

Steel

Trace metals

Metals (chemical elements)

USE: **Metals**

Metals (materials)

USE: **Alloys**

### **Metamorphic facies**

BT: Facies

NT: Amphibolite facies

Greenschist facies

### **Metamorphic rocks**

BT: Rocks

NT: Amphibolites

Schists

Serpentinite

RT: Metamorphism

Slates

Zeolites

### **Metamorphism**

NT: Hydrothermal alteration

RT: Low temperature

Metamorphic rocks

Metasomatism

### **Metamorphosis**

SN: Any marked change in stage of life cycle

BT: Biological phenomena

NT: Moulting

RT: Developmental stages

Larval development

Life cycle

### **Metasomatism**

RT: Chertification

Diagenesis

Hydrothermal alteration

Metamorphism

Silicification

Meteorological balloons

USE: **Balloons**

Meteorological buoys

USE: **Data buoys**

### **Meteorological charts**

SN: Use of a more specific term is recommended

BT: Maps

NT: Weather maps

RT: Meteorological data

Meteorology

### **Meteorological data**

BT: Data

NT: Climatic data

Meteorological observations

Wind data

RT: Marsden squares

Meteorological charts

Meteorological instruments

Meteorology

Meteorological equipment

USE: **Meteorological instruments**

Meteorological forcing

USE: **Atmospheric forcing**

Meteorological fronts

USE: **Atmospheric fronts**

### **Meteorological instruments**

UF: Meteorological equipment

BT: Instruments

NT: Rain gauges

RT: Actinometers

Balloons

Lidar

Meteorological data

Radiosondes

Sodar

Wind measuring equipment

### **Meteorological observations**

BT: Meteorological data

RT: Weather maps

Meteorological satellites

USE: **Scientific satellites**

### **Meteorological tables**

UF: Conversion tables

(meteorology)

BT: Tables

RT: Conversion tables

Nautical almanacs

Oceanographic tables

### **Meteorological tides**

BT: Tides

RT: Atmospheric tides

Lunar tides

Radiational tides

Solar tides

Storm surges

### **Meteorologists**

UF: Climatologists

BT: Scientific personnel

RT: Meteorology

### **Meteorology**

UF: Marine meteorology

BT: Atmospheric sciences

NT: Polar meteorology

Tropical meteorology

RT: Air-sea coupling

Air-sea interaction

Atmospheric disturbances

Atmospheric fronts

Atmospheric motion

Atmospheric physics

Atmospheric precipitations

Atmospheric pressure

Earth atmosphere

Meteorological charts

Meteorological data

(cont'd)

## ASFA THESAURUS

### *Meteorology (cont'd)*

Meteorologists  
Oceanography  
Weather  
Weather forecasting

### **Methane**

BT: Acyclic hydrocarbons  
RT: Chloroform  
Gas hydrates  
Methanogenesis

### **Methanogenesis**

RT: Methane

### **Methionine**

BT: Amino acids

### **Methodology**

UF: Methods  
RT: Analytical techniques  
Graphic methods  
Manuals  
Measurement  
Planning  
Standardization  
System analysis  
Technology

### Methods

USE: **Methodology**

### **Methyl mercury**

BT: Organometallic compounds

### **Micas**

BT: Silicate minerals  
NT: Biotite  
Glaucinite  
Muscovite  
RT: Slates

### Microbenthos

USE: **Benthos**

### **Microbial contamination**

UF: Microbial pollution  
BT: Pollution  
RT: Biological pollutants  
Botulism  
Diseases  
Disinfection  
Food poisoning  
Fungi  
Microbiological analysis  
Microbiology  
Microorganisms  
Pathogens  
Public health

### Microbial degradation

USE: **Biodegradation**

### **Microbial mats**

### Microbial pollution

USE: **Microbial contamination**

### **Microbiological analysis**

BT: Analysis  
RT: Fungi  
Microbial contamination  
Microbiological culture  
Microbiology  
Microorganisms

### **Microbiological culture**

BT: Laboratory culture  
RT: Cultured organisms  
Fungi  
Microbiological analysis  
Microbiology  
Microorganisms

### **Microbiologists**

BT: Biologists  
RT: Microbiology

### **Microbiology**

BT: Biology  
NT: Bacteriology  
Mycology  
Virology  
RT: Food technology  
Infectious diseases  
Microbial contamination  
Microbiological analysis  
Microbiological culture  
Microbiologists  
Microorganisms  
Parasitology  
Pharmacology  
Taxonomy

### Microcards

USE: **Microforms**

### Microcomputers

USE: **Computers**

### **Microcosms**

RT: Mesocosms

### **Microearthquakes**

BT: Earthquakes  
RT: Microseisms

### Microfauna

USE: **Microorganisms**

### Microfiches

USE: **Microforms**

### Microfilms

USE: **Microforms**

### Microflora

USE: **Microorganisms**

### **Microforms**

UF: Microcards  
Microfiches  
Microfilms  
RT: Documents  
Microphotography

### **Microhabitats**

BT: Habitat  
RT: Biotopes

### **Microinjection**

### Micrometer calipers

USE: **Measuring devices**

### Micronekton

USE: **Nekton**

### **Microorganisms**

SN: Before 1982 search  
MICRO-ORGANISMS  
UF: Microfauna  
Microflora  
NT: Bacteria  
Viruses  
Yeasts  
RT: Aquatic organisms  
Epipsammon  
Fungi  
Microbial contamination  
Microbiological analysis  
Microbiological culture  
Microbiology  
Nannoplankton

### **Micropalaeontology**

BT: Palaeontology  
RT: Foraminifera  
Geoid  
Stratigraphy

### **Microphones**

BT: Acoustic transducers  
RT: Hydrophones

### **Microphotography**

BT: Photography  
RT: Microforms

### **Microprocessors**

RT: Computers

### **Microscopes**

UF: Light microscopes  
Optical microscopes  
BT: Laboratory equipment  
RT: Microscopy

## ASFA THESAURUS

### Microscopy

BT: Analytical techniques  
 NT: Electron microscopy  
     Fluorescence microscopy  
     Light microscopy  
 RT: Chemical analysis  
     Cytology  
     Histology  
     Microscopes

### Microseisms

BT: Seismic waves  
 RT: Microearthquakes

### Microsomes

USE: **Ribosomes**

### Microstructure

SN: Variations in the distribution of  
     temperature, salinity and velocity  
     on a scale of 10 cm or less  
 UF: Oceanic microstructure  
 BT: Spatial variations  
 NT: Salinity microstructure  
     Thermal microstructure  
     Velocity microstructure  
 RT: Double diffusion  
     Finestructure  
     Oceanic turbulence  
     Salt fingers

### Microtopography

RT: Bottom erosion  
     Pock marks  
     Seachannels

### Microwave imagery

UF: Radiometers (microwave)  
 BT: Imagery  
 NT: Radar imagery  
 RT: Microwave radiometers  
     Microwaves  
     Satellite mosaics  
     Satellite sensing

### Microwave radar

BT: Radar  
 NT: Synthetic aperture radar  
 RT: Microwaves

### Microwave radiation

USE: Microwaves

### Microwave radiometers

BT: Radiometers  
 RT: Microwave imagery  
     Microwaves

### Microwaves

UF: Microwave radiation  
 BT: Electromagnetic radiation  
 RT: Communication systems

Microwave imagery  
 Microwave radar  
 Microwave radiometers  
 Scatterometers

### Mid-ocean eddies

USE: **Mesoscale eddies**

### Mid-ocean ridges

UF: Mid-ocean rises  
     Mid-oceanic ridges  
     Midocean ridges  
     Rise (oceanic)  
 BT: Submarine ridges  
 RT: Diverging plate boundaries  
     Fracture zones  
     Median valleys  
     Plate divergence  
     Seafloor spreading  
     Seismic ridges  
     Transform faults

### Mid-ocean rises

USE: **Mid-ocean ridges**

### Mid-oceanic ridges

USE: **Mid-ocean ridges**

### Midlatitude anticyclones

USE: **Anticyclones**

### Midlatitude cyclones

USE: **Cyclones**

### Midocean ridges

USE: **Mid-ocean ridges**

### Midwater cages

USE: **Submerged cages**

### Midwater trawls

UF: Beam trawls (midwater)  
     Floating trawls  
     Otter trawls (midwater)  
     Pair trawls (midwater)  
 BT: Trawl nets

### Migrant species

USE: **Migratory species**

### Migrations

UF: Animal migrations  
 BT: Behaviour  
 NT: Feeding migrations  
     Immigrations  
     Oceanodromous migrations  
     Potadromous migrations  
     Spawning migrations  
     Vertical migrations  
 RT: Activity patterns  
     Animal navigation  
     Autecology

Avoidance reactions  
 Ecological distribution  
 Geographical distribution  
 Horizontal distribution  
 Migratory species  
 Orientation behaviour  
 Overwintering  
 Phenology  
 Photoperiodicity  
 Regional variations  
 Seasonal distribution

### Migratory species

UF: Highly migratory species  
     Migrant species  
 BT: Species  
 RT: Endemic species  
     Migrations  
     Overwintering  
     Sedentary species

### Military activities

USE: **Military operations**

### Military oceanography

BT: Oceanography  
 RT: Defence craft  
     Military operations  
     Undersea warfare

### Military operations

UF: Military activities  
 RT: Defence craft  
     Military oceanography  
     Military ports  
     Security  
     Surveillance and enforcement  
     Undersea warfare

### Military ports

BT: Harbours  
 RT: Artificial harbours  
     Military operations  
     Naval bases

### Milk

RT: Lactation

### Milt

USE: **Roes**

### Mimicry

SN: Imitation of another organism  
     or object in the environment  
     (in form, color, and/or  
     behaviour)  
 UF: Adaptive colouration  
 BT: Adaptations  
 RT: Camouflage  
     Defence mechanisms  
     Protective behaviour



## ASFA THESAURUS

### Minced products

UF: Comminuted products

Fish balls  
Fish mince  
Fish paste  
Kamaboko  
Surimi

BT: Processed fishery products

RT: Fermented products

### Mine tailings

BT: Wastes

RT: Mining

Strip mine lakes

### Mineral assemblages

RT: Mineral deposits

### Mineral collections

SN: Collections of materials

obtained by geological surveys

BT: Collections

RT: Mineral resources

### Mineral composition

BT: Composition

RT: Hydrothermal alteration

Mineral resources

Mineralogy

### Mineral deposits

BT: Mineral resources

NT: Seabed deposits

Subsurface deposits

RT: Chemical sediments

Metallogenesis  
Mineral assemblages  
Mineral exploration  
Mineral samples  
Mineralization  
Minerals  
Ores  
Outcrops  
Placer mining

### Mineral exploration

UF: Exploratory mining

BT: Geophysical exploration

Resource exploration

RT: Concessions

Mineral deposits  
Mineral industry  
Offshore operations  
Placer mining  
Sediment sampling

### Mineral industry

SN: Industries of mineral resources  
or extraction of mineralized  
products of organic origin

BT: Industries

RT: Desalination plants

Mineral exploration

Mineral processing

Mineral resources

Mining

Mineral oils

USE: **Petroleum**

### Mineral processing

RT: Mineral industry

Mineral resources

Process plants

### Mineral resources

BT: Natural resources

NT: Mineral deposits

Ores

RT: Marine resources

Metalliferous sediments

Metallurgy

Mineral collections

Mineral composition

Mineral industry

Mineral processing

Mining

Nodules

Nonrenewable resources

Salts

Underwater exploitation

Underwater exploration

Mineral rights

USE: **Concessions**

Mineral salts

USE: **Salts**

### Mineral samples

BT: Geological samples

RT: Mineral deposits

Mineralogy

### Mineralization

RT: Mineral deposits

### Mineralogy

RT: Geochemistry

Geology

Mineral composition

Mineral samples

Minerals

Sediment chemistry

Sedimentology

### Minerals

NT: Borate minerals

Carbonate minerals

Graphite

Halide minerals

Heavy minerals

Light minerals

Manganese minerals

Oxide minerals

Phosphate minerals

Silicate minerals

Sulphate minerals

Sulphide minerals

RT: Mineral deposits

Mineralogy

Mining

Minicomputers

USE: **Computers**

### Mining

UF: Exploitation (minerals)

NT: Deep-sea mining

Placer mining

RT: Mine tailings

Mineral industry

Mineral resources

Minerals

Mining equipment

Mining legislation

### Mining equipment

BT: Equipment

RT: Hydraulic systems

Mining

Mining vessels

### Mining legislation

BT: Legislation

RT: Concessions

Mining

Oil and gas legislation

### Mining vessels

RT: Deep-sea mining

Mining equipment

Surface craft

### Miocene

SN: Before 1982 search MIOCENE

EPOCH

BT: Neogene

NT: Messinian

### Mirages

USE: Atmospheric optical  
phenomena

Mist

USE: **Fog**

Mistral

USE: **Local winds**

### Mitochondria

SN: Before 1995 search CELL  
ORGANELLES

BT: Cell organelles

## ASFA THESAURUS

### Mitosis

UF: Karokinesis  
BT: Cell division  
RT: Chromosomes  
Karyology  
Meiosis  
Nuclei

### Mixed gas

UF: Helium oxygen mixture  
BT: Breathing mixtures

### Mixed layer

BT: Water column  
NT: Bottom mixed layer  
Surface mixed layer  
RT: Isohalines  
Mixed layer depth

### Mixed layer depth

UF: Thermocline depth  
BT: Depth  
RT: Atmospheric forcing  
Hurricanes  
Mixed layer  
Pycnocline  
Thermocline

### Mixed species culture

USE: **Polyculture**

### Mixing (sediments)

USE: **Sediment mixing**

### Mixing (water)

USE: **Water mixing**

### Mixing length

BT: Length  
RT: Eddy flux  
Eddy viscosity  
Exchange coefficients  
Shear flow  
Vortices

### Mixing processes

RT: Aeration  
Bioturbation  
Cabbelling  
Diffusion  
Dispersion  
Downwelling  
Gas turbation  
Interfaces  
Overturn  
Sediment mixing  
Trans-isopycnal mixing  
Turbulent diffusion  
Turbulent entrainment  
Upwelling  
Water mixing

### Mixing ratio

BT: Dimensionless numbers  
Ratios  
RT: Dew point  
Humidity  
Water vapour

### Mobile platforms

SN: Towed or self-propelled structures with the working level above water operated in a fixed position, excluding vessels in conventional ship form  
BT: Floating structures  
NT: Jackup platforms  
Semisubmersible platforms  
Submersible platforms  
RT: Decks  
Fixed platforms

### Mobility

RT: Immobilization  
Locomotion  
Motion

### Modelling

SN: Before 1982 search  
SIMULATION  
RT: Mathematical programming  
Models  
Simulation

### Models

NT: Analog models  
Mathematical models  
Scale models  
RT: Computation  
Modelling  
Prototypes  
Simulators

### Modes

NT: Baroclinic mode  
Barotropic mode

### Modifiers

USE: **Additives**

### Modules

SN: Use for prefabricated units of equipment  
UF: Skid mounted units  
RT: Equipment

### Moho

UF: Mohorovicic discontinuity  
BT: Seismic discontinuities  
RT: Asthenosphere  
Basement rock  
Continental drift  
Earth mantle

Earth structure  
Lithosphere  
Plate tectonics  
Seafloor spreading  
Seismic velocities  
Tectonophysics

### Mohorovicic discontinuity

USE: **Moho**

### Moisture

RT: Evaporation  
Moisture transfer  
Water vapour

### Moisture content

USE: **Water content**

### Moisture flux

USE: **Moisture transfer**

### Moisture transfer

UF: Mass transfer (air-water exchanges)  
Moisture flux  
Water vapour transfer  
RT: Air-water exchanges  
Air-water interface  
Atmospheric boundary layer  
Energy transfer  
Evaporation  
Moisture

### Molecular biology

SN: Used only for general overviews; use of a more specific term is recommended  
BT: Biology

### Molecular diffusion

BT: Diffusion  
NT: Double diffusion  
RT: Osmosis

### Molecular heat conduction

USE: **Heat conduction**

### Molecular mass

USE: **Molecular weight**

### Molecular structure

RT: Molecular weight  
Molecules

### Molecular taxonomy

USE: **Chemotaxonomy**

### Molecular viscosity

BT: Viscosity  
RT: Laminar flow  
Momentum transfer

## ASFA THESAURUS

### **Molecular weight**

UF: Molecular mass  
BT: Weight  
RT: Chemical properties  
Molecular structure

### **Molecules**

RT: Ligands  
Molecular structure

### **Mollusc culture**

UF: Mollusk culture  
BT: Shellfish culture  
NT: Clam culture  
Mussel culture  
Oyster culture  
Scallop culture  
Squid culture  
RT: Brackishwater molluscs  
Freshwater molluscs  
Marine molluscs  
Raft culture

### **Mollusc fisheries**

UF: Mollusk fisheries  
BT: Shellfish fisheries  
NT: Cephalopod fisheries  
Clam fisheries  
Gastropod fisheries  
Mussel fisheries  
Oyster fisheries  
Scallop fisheries  
RT: Brackishwater molluscs  
Freshwater molluscs  
Marine molluscs

### **Molluscan larvae**

UF: Molluscan larvae  
BT: Invertebrate larvae  
NT: Spat  
Veligers

### **Molluscicides**

UF: Molluscicides  
BT: Pesticides  
RT: Ichthyocides

### **Molluscs**

USE: **Shellfish**

### **Molluscs (brackishwater)**

USE: **Brackishwater molluscs**

### **Molluscs (freshwater)**

USE: **Freshwater molluscs**

### **Molluscs (marine)**

USE: **Marine molluscs**

### **Mollusk culture**

USE: **Mollusc culture**

### **Mollusk fisheries**

USE: **Mollusc fisheries**

### **Molluskan larvae**

USE: **Molluscan larvae**

### **Molluscicides**

USE: **Molluscicides**

### **Mollusks (brackishwater)**

USE: **Brackishwater molluscs**

### **Mollusks (freshwater)**

USE: **Freshwater molluscs**

### **Mollusks (marine)**

USE: **Marine molluscs**

### **Molting**

USE: **Moulting**

### **Molybdenum**

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Molybdenum compounds  
Molybdenum isotopes

### **Molybdenum compounds**

BT: Chemical compounds  
RT: Molybdenum

### **Molybdenum isotopes**

BT: Isotopes  
RT: Molybdenum

### **Momentum**

NT: Angular momentum  
RT: Conservation of momentum  
Diffusion  
Mechanics  
Momentum transfer

### **Momentum conservation**

USE: **Conservation of momentum**

### **Momentum flux**

USE: **Momentum transfer**

### **Momentum transfer**

UF: Momentum flux  
RT: Air-water exchanges  
Air-water interface  
Atmospheric boundary layer  
Dynamic viscosity  
Eddy viscosity  
Energy transfer  
Molecular viscosity  
Momentum  
Prandtl number  
Reynolds stresses  
Wave interactions

### **Wave-current interaction**

Wind wave generation

### **Monazite**

BT: Phosphate minerals  
RT: Placers  
Thorium

### **Monin-Obukhov length**

RT: Density stratification  
Stability  
Water density

### **Monitoring**

NT: Environmental monitoring  
RT: Baseline studies  
Control  
Inspection  
Long-term changes  
Monitoring systems

### **Monitoring stations**

USE: **Monitoring systems**

### **Monitoring systems**

SN: Before 1982 search  
MONITORING STATIONS  
UF: Monitoring stations  
RT: Equipment  
Fixed stations  
Monitoring  
Recording equipment  
Telemetry

### **Monoclonal antibodies**

BT: Antibodies

### **Monoculture**

UF: Monospecific culture  
BT: Aquaculture techniques  
RT: Axenic culture  
Cage culture  
Crustacean culture  
Fish culture  
Freshwater aquaculture  
Polyculture  
Raceway culture

### **Monocyclic hydrocarbons**

USE: **Aromatic hydrocarbons**

### **Monographs**

USE: **Synopsis**

### **Monolayers**

USE: **Monomolecular films**

### **Monomolecular films**

UF: Monolayers  
BT: Surface films  
RT: Surface microlayer

## ASFA THESAURUS

### Monosaccharides

BT: Saccharides  
NT: Arabinose  
Fucose  
Glucose  
Mannose  
Ribose  
Xylose

### Monosex culture

BT: Aquaculture techniques  
RT: Fish culture  
Intensive culture

### Monospecific culture

USE: **Monoculture**

### Monoterpenes

USE: **Terpenes**

### Monsoon reversal

RT: Current reversal  
Equatorial circulation  
Equatorial dynamics  
Monsoons  
Tropical oceanography

### Monsoons

BT: Planetary winds  
RT: Monsoon reversal  
Rainy season  
Sea breezes  
Tropical environment  
Tropical meteorology  
Tropical oceanography

### Monthly

BT: Periodicity

### Monthly distribution

BT: Temporal distribution

### Montmorillonite

BT: Clay minerals  
RT: Bentonite

### Moon

RT: Astronomy  
Moon phases

### Moon effects

USE: **Moon phases**

### Moon phases

SN: Moon phases and their influence on behaviour of aquatic organisms and on sea level  
UF: Lunar cycles  
Lunar effects  
Moon effects  
RT: Astronomy  
Circadian rhythms

### Cycles

Moon  
Nyctimeral rhythms  
Tides

### Mooring buoys

BT: Buoys  
NT: Loading buoys  
RT: Berthing  
Mooring lines  
Mooring systems

### Mooring lines

BT: Cables  
RT: Catenary  
Chain  
Mooring buoys  
Mooring motion effects  
Mooring systems  
Ropes  
Towing lines

### Mooring motion effects

SN: Influence of motion on instrumental observations made from moored equipment  
BT: Motion effects  
RT: Buoy motion effects  
Mooring lines  
Mooring systems

### Mooring recovery

SN: Recovery of moorings for oceanographic equipment  
BT: Recovery  
RT: Buoy mooring systems

### Mooring ships

USE: **Berthing**

### Mooring systems

SN: Use of a more specific term is recommended. Before 1982 search also MOORINGS  
UF: Moorings  
NT: Buoy mooring systems  
Current meter moorings  
Ship mooring systems  
RT: Anchoring  
Mooring buoys  
Mooring lines  
Mooring motion effects

### Moorings

USE: **Mooring systems**

### Moraines

BT: Glacial features  
RT: Glacial deposits

### Moratoria

UF: Moratorium

### Moratorium

USE: **Moratoria**

### Morbidity

USE: **Diseases**

### Morison's equation

BT: Equations  
RT: Wave forces

### Morphogenesis

SN: The development of form and structure of an organism or part of an organism  
NT: Gametogenesis  
RT: Embryology  
Embryonic development  
Evolution  
Genetics  
Ontogeny  
Organism morphology  
Organogenesis  
Vitellogenesis

### Morphology (animal)

USE: **Animal morphology**

### Morphology (biology)

USE: **Organism morphology**

### Morphology (coastal)

USE: **Coastal morphology**

### Morphology (organisms)

USE: **Organism morphology**

### Morphology (plant)

USE: **Plant morphology**

### Morphometric analysis

USE: **Morphometry**

### Morphometry

UF: Morphometric analysis  
RT: Bathymetry  
Bottom topography  
Dimensions  
Hypsometric curves  
Shape

### Mortality

UF: Death rate  
Mortality rate  
BT: Population functions  
NT: Fishing mortality  
Natural mortality  
Tagging mortality  
Total mortality  
RT: Longevity  
Mortality causes  
Survival

## ASFA THESAURUS

### **Mortality causes**

SN: Any known or hypothesized causes for mortality

RT: Algal blooms

Anoxia  
Asphyxia  
Diseases  
Diving accidents  
Drowning  
Epidemics  
Fish kill  
Hypercapnia  
Hypothermia  
Lethal effects  
Mortality  
Pollutants  
Pollution effects  
Predation  
Slaughter  
Starvation  
Survival  
Toxicants

Mortality rate

USE: **Mortality**

### **Mother ships**

SN: Before 1982 search

MOTHERSHIPS

BT: Support ships

RT: Fishing vessels

Submersibles

Underwater vehicles

### **Motion**

UF: Movement

NT: Anticyclonic motion

Atmospheric motion

Buoy motion

Cyclonic motion

Fluid motion

Ground motion

Particle motion

Rotation

Sediment movement

Ship motion

Tidal motion

Water motion

RT: Displacement

Drift

Inertia

Mobility

Motion effects

Oscillations

### **Motion effects**

SN: Effects of motion on instrumental observations

NT: Buoy motion effects

Mooring motion effects

RT: Motion

Motion sickness

USE: **Sea sickness**

### **Motor boats**

SN: Before 1982 search BOATS

BT: Boats

Motor fuels

USE: **Fuels**

### **Motors**

UF: Engines

NT: Diesel engines

Turbines

RT: Electric generators

Electric power sources

Propulsion systems

### **Moulting**

UF: Ecdysis

Molting

Moulting cycle

Moult

BT: Metamorphosis

RT: Ecdysons

Moulting cycle

USE: **Moulting**

Moulting hormones

USE: **Ecdysons**

Moult

USE: **Moulting**

Mountain building

USE: **Orogeny**

Mountain waves

USE: **Lee waves**

### **Mountains**

BT: Landforms

RT: Orogeny

Seamounts

Submarine ridges

### **Mouth parts**

SN: Used for animals only

NT: Baleens

Radulae

Teeth

RT: Alimentary organs

Movement

USE: **Motion**

Movements (local)

USE: **Local movements**

### **Mucins**

UF: Mucoproteins

BT: Proteins

RT: Exocrine glands

Mucus

### **Mucopolysaccharides**

BT: Polysaccharides

NT: Chitin

Heparin

Mucoproteins

USE: **Mucins**

### **Mucus**

BT: Body fluids

Secretory products

RT: Exocrine glands

Mucins

### **Mud**

BT: Clastics

NT: Fluid mud

RT: Clays

Cohesive sediments

Marl

Mud banks

Mud flats

Oozes

Silt

Sludge

Slurries

Soils

Tidal flats

### **Mud banks**

BT: Banks (topography)

Bed forms

RT: Mud

Sand banks

Submarine banks

Tidal flats

### **Mud flats**

BT: Sedimentary structures

RT: Mud

Mudflows

USE: **Debris flow**

Muds (drilling)

USE: **Drilling fluids**

### **Mudstone**

BT: Clastics

Sedimentary rocks

RT: Lutites

Siltstone

Slates

### **Mullet fisheries**

BT: Finfish fisheries

## ASFA THESAURUS

### **Multibeam sonar**

BT: Active sonar

Multinational expeditions

USE: **Multiship expeditions**

### **Multiphase flow**

UF: Three phase flow

Two phase flow

BT: Fluid flow

RT: Laminar flow

Turbulent flow

Unsteady flow

### **Multiple use of resources**

RT: Exploitation

Natural resources

### **Multiship expeditions**

SN: Surveys involving the use of  
two or more research vessels

UF: Expeditions (multiship)

International expeditions

Multinational expeditions

BT: Expeditions

RT: Cruises

Research vessels

### **Multispecies fisheries**

BT: Fisheries

RT: Catch composition

Dominant species

Ecological succession

### **Multispectral scanners**

RT: Radiometers

Remote sensing equipment

Satellite photography

Water colour

### **Multivariate analysis**

BT: Variance analysis

Muscle fibers

USE: **Muscles**

### **Muscles**

UF: Muscle fibers

Red muscles

Smooth muscles

Striated muscles

Tendous musculature

White muscles

BT: Musculoskeletal system

RT: Actin

Cholinesterase inhibitors

Glycogen

Myoglobins

Myosin

Tissues

### **Muscovite**

BT: Micas

Muscular system

USE: **Musculoskeletal system**

### **Musculoskeletal system**

SN: Before 1982 search

MUSCULAR SYSTEM and/or

SKELETON

UF: Muscular system

NT: Muscles

Skeleton

RT: Cartilage

Connective tissues

### **Museum collections**

BT: Collections

RT: Museums

### **Museums**

BT: Information centres

RT: Exhibitions

Museum collections

### **Mussel culture**

SN: Before 1982 use MOLLUSC  
CULTURE

BT: Mollusc culture

RT: Mussel fisheries

Spat

### **Mussel fisheries**

BT: Mollusc fisheries

RT: Mussel culture

### **Mutagenesis**

Mutagenic agents

USE: **Mutagens**

### **Mutagens**

SN: Substances producing  
mutations

UF: Mutagenic agents

BT: Agents

RT: Genetics

Mutations

### **Mutations**

SN: Change in the characteristics  
of an organism by alteration of  
hereditary material

UF: Chromosome mutations

Gene mutations

Lethal mutations

Somatic mutations

BT: Biological phenomena

RT: Biological speciation

Bioselection

Chromosomes

Degeneration

Evolution

Genes

Genetic abnormalities

Genetic drift

Genetics

Genotypes

Mutagens

New species

Mutualism

USE: **Symbiosis**

Mycobacterial infections

USE: **Tuberculosis**

### **Mycology**

BT: Microbiology

RT: Fungal diseases

Fungi

Fungicides

Parasitology

Mycoses

USE: **Fungal diseases**

Mycotic diseases

USE: **Fungal diseases**

### **Myoglobins**

BT: Proteins

RT: Blood

Muscles

Myoneme

USE: **Cell organelles**

### **Myosin**

BT: Proteins

RT: Muscles

### **Nannofossil ooze**

RT: Calcareous ooze

Coccoliths

### **Nannoplankton**

SN: Planktonic organisms smaller  
than 60 microns

UF: Bacterioplankton

Nanoplankton

BT: Plankton

RT: Bacteria

Filter feeders

Microorganisms

Nanoplankton

USE: **Nannoplankton**

Nansen bottles

USE: **Water samplers**

### **Naphthalene**

BT: Aromatic hydrocarbons

## ASFA THESAURUS

### Nappes

SN: Large horizontal recumbent tectonic folds that have travelled along thrust planes  
BT: Folds  
RT: Tectonics

### Narcosis

NT: Nitrogen narcosis

### Narcotics

BT: Drugs  
RT: Anaesthetics

### Natality

USE: **Fecundity**

### National allocation

USE: **Allocation systems**

### National boundaries

USE: **International boundaries**

### National planning

UF: Planning (national)  
BT: Planning  
RT: Regional planning

### Natural breeding

USE: **Breeding**

### Natural disasters

USE: **Disasters**

### Natural fibre rope

USE: **Fibre rope (natural)**

### Natural food

USE: **Food organisms**

### Natural frequency

USE: **Resonant frequency**

### Natural gas

BT: Fossil fuels  
Gases  
NT: Liquefied natural gas  
RT: Crude oil  
Gas condensates  
Gas fields  
Gas production  
Gas seepages  
Gas terminals  
Oil  
Oil and gas exploration  
Oil and gas industry  
Oil and gas legislation  
Oil-gas interface  
Petroleum

### Natural habitat

USE: **Habitat**

### Natural immunity

USE: **Immunity**

### Natural increase

USE: **Biological production**

### Natural mortality

UF: Natural mortality coefficient  
BT: Mortality  
RT: Biotic pressure  
Diseases  
Predation  
Total mortality

### Natural mortality coefficient

USE: **Natural mortality**

### Natural populations

SN: All individuals of a certain species inhabiting a specified region  
UF: Populations (natural)  
NT: Animal populations  
Plant populations  
RT: Population characteristics  
Population control  
Population dynamics  
Population factors  
Population functions  
Population genetics  
Population structure

### Natural production

USE: **Biological production**

### Natural resources

SN: Restricted to resources within or beneath the aquatic environment  
UF: Aquatic natural resources  
BT: Resources  
NT: Common property resources  
Energy resources  
Food resources  
Living resources  
Marine resources  
Mineral resources  
Nonrenewable resources  
Renewable resources  
Unconventional resources  
Water resources  
RT: Multiple use of resources  
Protected resources  
Rare resources  
Raw materials  
Resource conservation  
Resource management

### Natural selection

UF: Survival of the fittest  
BT: Bioselection

### RT: Competition

Environmental effects

### Nature conservation

UF: Wildlife conservation  
BT: Conservation  
RT: Environment management  
Rare species  
Refuges  
Sanctuaries  
Species extinction

### Nature reserves

USE: **Marine parks**

### Nauplii

BT: Crustacean larvae

### Nautical almanacs

UF: Ephemeris  
BT: Almanacs  
RT: Meteorological tables  
Navigational tables

### Nautical archaeology

USE: **Archaeology**

### Nautical bottom

USE: **Water depth**

### Nautical charts

USE: **Navigational charts**

### Naval architecture

USE: **Ship technology**

### Naval bases

BT: Harbours  
RT: Defence craft  
Military ports

### Naval craft

USE: **Defence craft**

### Naval engineering

USE: **Ship technology**

### Naval technology

USE: **Ship technology**

### Navier-Stokes equations

BT: Equations  
RT: Hydrodynamics  
Reynolds stresses

### Naviface

USE: **Air-water interface**

### Navigable channels

USE: **Navigational channels**

## ASFA THESAURUS

### Navigation

SN: Use of a more specific term is recommended; used only for general aspects

UF: Surface navigation

NT: Acoustic navigation

Celestial navigation

Dead reckoning

Inertial navigation

Navigation in ice

Navigation underwater

Radar navigation

Radio navigation

Satellite navigation

RT: Animal navigation

Direction finding

Dynamic positioning

Navigation policy

Navigation regulations

Navigational aids

Navigational buoys

Navigational hazards

Position fixing

Seamanship

Ship handling

Ship routeing

Standard signals

Navigation (animal)

USE: **Animal navigation**

Navigation canals

USE: **Ship canals**

Navigation channels

USE: **Navigational channels**

### Navigation in ice

SN: Before 1982 search ICE

NAVIGATION

UF: Ice navigation

Polar navigation

BT: Navigation

RT: Ice

Ice breakers

Ice breaking

Ice breakup

Ice jams

Ice routeing

Ice-free periods

Leads

Navigation under ice

Polar exploration

### Navigation policy

BT: Policies

RT: Navigation

Navigation regulations

### Navigation regulations

UF: Navigational regulations

Shipping rules

BT: Legislation

NT: Harbour regulations

RT: Collision avoidance

Navigation

Navigation policy

Shipping

Traffic management

### Navigation systems

RT: Autopilots

Navigational aids

### Navigation under ice

BT: Navigation underwater

RT: Inertial navigation

Navigation in ice

Polar exploration

### Navigation underwater

UF: Seabed acoustic position fixing

Underwater navigation

BT: Navigation

NT: Navigation under ice

RT: Acoustic navigation

Acoustic tracking systems

Inertial navigation

### Navigational aids

NT: Acoustic beacons

Compasses

Lighthouses

Marker buoys

Navigational buoys

Navigational charts

Navigational tables

RT: Autopilots

Lightships

Navigation

Navigation systems

Position fixing

Radar

### Navigational buoys

SN: Before 1982 search also

NAVIGATION BUOYS

BT: Buoys

Navigational aids

RT: Navigation

### Navigational channels

UF: Navigable channels

Navigation channels

BT: Channels

RT: Ship canals

### Navigational charts

SN: Before 1982 search also

NAVIGATION CHARTS

UF: Lattice charts

Nautical charts

Pilot charts

BT: Maps

Navigational aids

RT: Hydrographic surveys

Navigational hazards

Navigational tables

### Navigational hazards

BT: Hazards

RT: Navigation

Navigational charts

Shoals

Wrecks

Navigational regulations

USE: **Navigation regulations**

### Navigational satellites

BT: Satellites

RT: Satellite navigation

### Navigational tables

BT: Navigational aids

Tables

RT: Decca

Loran

Nautical almanacs

Navigational charts

Oceanographic tables

Omega

### Neap tides

BT: Tides

Near-bottom currents

USE: **Bottom currents**

Near-surface circulation

USE: **Surface circulation**

### Near-surface layer

SN: Part of surface layer in which surface water wave motion is a major factor in buoy and mooring motions and instrument observations, e.g. current meter readings

BT: Surface layers

RT: Surface microlayer

Surface water waves

### Nearshore bars

UF: Bars

Offshore bars

Submarine bars

BT: Beach features

NT: Break-point bars

Longshore bars

Transverse bars

RT: Barrier beaches

Bed forms

(cont'd)



## ASFA THESAURUS

### *Nearshore bars (cont'd)*

Deposition features  
Destructive waves  
Nearshore dynamics  
Sand bars

Nearshore circulation

USE: **Nearshore dynamics**

### **Nearshore currents**

SN: Before 1982 search

LITTORAL CURRENTS and  
ONSHORE CURRENTS

UF: Coastal currents (littoral)

Inshore currents

Littoral currents

Onshore currents

BT: Water currents

NT: Longshore currents

Rip currents

Undertow

RT: Coastal currents

Coastal oceanography

Estuarine dynamics

Nearshore dynamics

Upwelling

Wind-driven currents

### **Nearshore dynamics**

UF: Nearshore circulation

BT: Shelf dynamics

RT: Bay dynamics

Coastal boundary layer

Coastal jets

Coastal oceanography

Coastal waters

Dynamical oceanography

Estuarine dynamics

Lake dynamics

Nearshore bars

Nearshore currents

Nearshore sedimentation

Surf zone

Waves on beaches

Nearshore environment

USE: **Coastal zone**

Nearshore oceanography

USE: **Coastal oceanography**

### **Nearshore sedimentation**

UF: Littoral sedimentation

BT: Sedimentation

RT: Intertidal sedimentation

Littoral deposits

Nearshore dynamics

Sedimentary environments

Sublittoral zone

### **Necroses**

UF: Gangrenes

Piscine erythrocyte necrosis

BT: Symptoms

NT: Ulcerative dermal necrosis

RT: Anoxia

Cells

Diseases

Injuries

Necton

USE: **Nekton**

Necton collecting devices

USE: **Nekton collecting devices**

Negative ions

USE: **Anions**

Nehrung

USE: **Barrier spits**

### **Nekton**

UF: Micronekton

Necton

BT: Aquatic communities

RT: Nekton collecting devices

### **Nekton collecting devices**

UF: Necton collecting devices

BT: Collecting devices

RT: Fishing nets

Nekton

Zooplankton

Nematocysts

USE: **Stinging organs**

### **Neodymium**

BT: Lanthanides

RT: Neodymium isotopes

### **Neodymium isotopes**

BT: Isotopes

RT: Neodymium

### **Neogene**

UF: Upper tertiary

BT: Tertiary

NT: Miocene

Pliocene

### **Neon**

BT: Rare gases

RT: Neon isotopes

### **Neon isotopes**

BT: Isotopes

RT: Neon

Neoplasms

USE: **Tumours**

### **Neoteny**

SN: Retention of larval characters  
beyond the usual period

UF: Paedomorphism

BT: Biological properties

RT: Larvae

### **Nepheloid layer**

UF: Nepheloid zone

BT: Discontinuity layers

RT: Continental rise

Contour currents

Light scattering

Nephelometers

Suspended particulate matter

Turbidity

Turbidity currents

Nepheloid zone

USE: **Nepheloid layer**

### **Nephelometers**

BT: Measuring devices

RT: Light measuring instruments

Nepheloid layer

Photometers

Water transparency

Nephrons

USE: **Kidneys**

### **Neptunium**

BT: Actinides

Transuranic elements

RT: Neptunium isotopes

### **Neptunium isotopes**

BT: Isotopes

RT: Neptunium

### **Neritic province**

SN: All of the water mass from the  
lowest tide line to the outer  
edge of the continental shelf

UF: Neritic region

Neritic zone

BT: Pelagic environment

RT: Continental shelves

Epipelagic zone

Littoral zone

Oceanic province

Neritic region

USE: **Neritic province**

Neritic zone

USE: **Neritic province**

Nerve cells

USE: **Neurons**

## ASFA THESAURUS

Nerve fibers  
USE: **Nerves**

Nerve ganglia  
USE: **Ganglia**

Nerve tissues  
USE: **Nervous tissues**

### **Nerves**

UF: Afferent nerves  
Efferent nerves  
Nerve fibers  
Peripheral nerves  
BT: Peripheral nervous system  
RT: Brain  
Connective tissues  
Ganglia  
Nervous tissues

### **Nervous system**

BT: Anatomical structures  
NT: Autonomic nervous system  
Central nervous system  
Peripheral nervous system  
RT: Nervous tissues  
Neurons  
Neurophysiology  
Neurosecretion  
Neurosecretory system  
Neurotransmitters  
Synapses  
Thyroid

### **Nervous tissues**

UF: Nerve tissues  
BT: Tissues  
RT: Ganglia  
Nerves  
Nervous system  
Neurons  
Neurosecretion  
Sense organs

### **Nesting**

UF: Nesting activity  
Nesting behaviour  
RT: Bird eggs  
Breeding  
Breeding seasons  
Breeding sites  
Clutch  
Hatching  
Nests  
Reproductive behaviour

Nesting activity  
USE: **Nesting**

Nesting behaviour  
USE: **Nesting**

### **Nests**

RT: Bird eggs  
Breeding sites  
Clutch  
Nesting  
Redds

Net avoidance  
USE: **Avoidance reactions**

Net construction  
USE: **Gear construction**

Net culture  
USE: **Cage culture**

### **Net fishing**

BT: Catching methods  
NT: Seining  
Trawling  
RT: Fishing nets

Net radiation  
USE: **Radiation balance**

Net solar radiation  
USE: **Solar radiation**

### **Net sounders**

UF: Netsondes  
BT: Acoustic equipment  
RT: Trawl nets  
Trawling

Net terrestrial radiation  
USE: **Terrestrial radiation**

### **Nets**

NT: Fishing nets  
RT: Netting materials  
Ropes

Netsondes  
USE: **Net sounders**

**Netting materials**  
SN: Hand- or machine-made material for fishing nets  
BT: Gear materials  
RT: Nets  
Synthetic fibres

Neurohumor  
USE: **Neurotransmitters**

Neurones  
USE: **Neurons**

**Neurons**  
SN: Search also NEURONES  
UF: Axons  
Dendrites

Nerve cells  
Neurones  
BT: Cells  
RT: Nervous system  
Nervous tissues  
Neurotransmitters  
Receptors  
Synapses

### **Neurophysiology**

BT: Physiology  
RT: Nervous system  
Neurosecretory system  
Neurotransmitters  
Sense functions  
Sense organs

### **Neurosecretion**

BT: Secretion  
RT: Nervous system  
Nervous tissues  
Neurosecretory system  
Pineal organ

### **Neurosecretory system**

BT: Anatomical structures  
RT: Nervous system  
Neurophysiology  
Neurosecretion  
Pineal organ

### **Neurotoxins**

SN: Toxins which affect the nervous system. Before 1982 search POISONS (BIOLOGICAL)  
BT: Biological poisons  
RT: Botulism  
Tetrodotoxin

### **Neurotransmitters**

UF: Acetylcholine  
Neurohumor  
BT: Hormones  
RT: Nervous system  
Neurons  
Neurophysiology  
Synapses

### **Neuston**

BT: Aquatic communities  
RT: Plankton collecting devices

Neutrally buoyant floats  
USE: **Swallow floats**

**Neutron activation analysis**  
BT: Activation analysis

**New classes**  
BT: New taxa

## ASFA THESAURUS

New distribution  
USE: **New records**

**New families**  
BT: New taxa

**New genera**  
UF: New genus  
BT: New taxa  
RT: Evolution

New genus  
USE: **New genera**

**New orders**  
BT: New taxa

New product development  
USE: **Product development**

**New products**  
UF: Improved products  
BT: Products  
RT: Industrial products  
Product development

**New records**  
UF: New distribution  
RT: Distribution

**New species**  
BT: New taxa  
Species  
RT: Biological speciation  
Evolution  
Mutations

**New taxa**  
BT: Taxa  
NT: New classes  
New families  
New genera  
New orders  
New species  
New varieties  
RT: Holotypes  
Type localities

**New varieties**  
BT: New taxa

**Niches**  
UF: Ecological niches  
RT: Aquatic communities  
Behaviour  
Biotopes  
Ecosystems  
Habitat

**Nickel**  
BT: Heavy metals  
Transition elements

RT: Ferromanganese nodules  
Nickel compounds  
Nickel isotopes

**Nickel compounds**  
BT: Chemical compounds  
RT: Nickel

**Nickel isotopes**  
BT: Isotopes  
RT: Nickel

**Nicotinic acid**  
BT: Organic acids

**Nighttime**  
RT: Daytime  
Diurnal variations

**Niobium**  
UF: Columbium  
BT: Heavy metals  
RT: Niobium isotopes

**Niobium isotopes**  
BT: Isotopes  
RT: Niobium

Niskin samplers  
USE: **Water samplers**

Nitrate cycle  
USE: **Nitrogen cycle**

**Nitrates**  
BT: Nitrogen compounds  
RT: Nitrites  
Nitrogen cycle  
Nutrients (mineral)  
Salts

**Nitric acids**  
SN: Before 1978 search  
INORGANIC ACIDS  
UF: Nitrous acid  
BT: Inorganic acids

**Nitrification**  
BT: Chemical reactions  
RT: Denitrification  
Nitrogen cycle

**Nitrites**  
BT: Nitrogen compounds  
RT: Nitrates  
Nitrogen cycle  
Salts

**Nitrogen**  
BT: Atmospheric gases  
Nonmetals  
NT: Organic nitrogen

RT: Carbon/nitrogen ratio  
Nitrogen compounds  
Nitrogen cycle  
Nitrogen fixation  
Nitrogen isotopes  
Non-conservative properties

**Nitrogen compounds**  
UF: Nitrogenous compounds  
BT: Chemical compounds  
NT: Ammonia  
Nitrates  
Nitrites  
Nitrous oxide  
RT: Amino acids  
Chemical fertilizers  
Cyanides  
Nitrogen  
Nitrogen cycle  
Nitrogen fixation  
Organic compounds  
Organic nitrogen  
Proteins  
Urea

**Nitrogen cycle**  
UF: Nitrate cycle  
BT: Nutrient cycles  
RT: Ammonia  
Denitrification  
Nitrates  
Nitrification  
Nitrites  
Nitrogen  
Nitrogen compounds  
Nitrogen fixation

**Nitrogen fixation**  
SN: The process by which certain bacteria are able to transform elemental nitrogen into ammonia  
BT: Chemical reactions  
RT: Ammonia  
Biochemical phenomena  
Nitrogen  
Nitrogen compounds  
Nitrogen cycle

**Nitrogen isotopes**  
BT: Isotopes  
RT: Nitrogen

**Nitrogen narcosis**  
BT: Narcosis  
RT: Decompression sickness  
Underwater medicine

Nitrogenous compounds  
USE: **Nitrogen compounds**

**Nitrosamines**  
BT: Amines

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Nitrous acid  
USE: **Nitric acids**

**Nitrous oxide**  
BT: Nitrogen compounds  
Oxides

NMR techniques  
USE: **Nuclear magnetic resonance**

Nobbing  
USE: **Gutting**

Noble gases  
USE: **Rare gases**

**Nodal tides**  
BT: Tides  
RT: Long-period tides  
Tidal perturbation

**Node construction**  
RT: Joints  
Offshore structures  
Tubing

Nodes  
USE: **Joints**

**Nodules**  
SN: Use only for chemical  
sediments found on seafloor  
BT: Chemical sediments  
NT: Ferromanganese nodules  
Phosphorite nodules  
RT: Cherts  
Concretions  
Mineral resources  
Seabed deposits  
Sedimentary structures

Noise (electronics)  
USE: **Electronic noise**

Noise (radar echoes)  
USE: **Radar clutter**

**Noise (sound)**  
BT: Sound  
NT: Ambient noise  
Underwater noise  
RT: Noise reduction  
Vibration

Noise generators  
USE: **Sound generators**

**Noise reduction**  
UF: Noise suppression  
BT: Damping  
RT: Acoustic insulation  
Noise (sound)

Noise suppression  
USE: **Noise reduction**

Nomenclature  
USE: **Terminology**

Nomograms  
USE: **Conversion tables**

Non penaeid shrimp fisheries  
USE: **Shrimp fisheries**

Non-cohesive sediments  
USE: **Cohesionless sediments**

**Non-conservative properties**  
BT: Properties  
RT: Conservative properties  
Dissolved oxygen  
Nitrogen  
Phosphates  
Silicates  
Water masses

**Non-Newtonian fluids**  
BT: Fluids  
RT: Rheology

Nonconventional resources  
USE: **Unconventional resources**

**Nondestructive testing**  
UF: Acoustic emission testing  
Flaw detection  
Magnetic particle testing  
Radiographic testing  
Ultrasonic testing  
BT: Materials testing  
RT: Acoustic emission

**Nonferrous alloys**  
BT: Alloys

**Nonlinear equations**  
BT: Equations  
RT: Differential equations  
Integral equations  
Numerical analysis

**Nonlinear wave interactions**  
BT: Wave interactions  
RT: Nonlinear waves

**Nonlinear waves**  
BT: Water waves  
NT: Finite amplitude waves  
Stokes waves  
RT: Capillary waves  
Internal waves  
Linear waves  
Nonlinear wave interactions  
Shallow water waves

Surface gravity waves  
Trapped waves

**Nonlinearity**  
RT: Variability

**Nonmetals**  
BT: Chemical elements  
NT: Aluminium  
Boron  
Carbon  
Germanium  
Halogens  
Hydrogen  
Nitrogen  
Oxygen  
Phosphorus  
Polonium  
Scandium  
Silicon  
Sulphur

**Nonrenewable resources**  
BT: Natural resources  
RT: Fossil fuels  
Mineral resources  
Renewable resources  
Seabed deposits

**Nontronite**  
BT: Clay minerals

Northern lobster fisheries  
USE: **Lobster fisheries**

**Noxious organisms**  
UF: Injurious organisms  
Stinging organisms  
BT: Aquatic organisms  
NT: Poisonous organisms  
RT: Parasites  
Stinging organs  
Venom apparatus

Nuclear division  
USE: **Cell division**

**Nuclear energy**  
UF: Atomic energy  
BT: Energy  
RT: Nuclear power plants  
Radioactivity

**Nuclear explosions**  
BT: Explosions  
RT: Fission products  
Radioactive contamination  
Underwater explosions

**Nuclear magnetic resonance**  
UF: NMR techniques  
RT: Spectroscopic techniques

## ASFA THESAURUS

Nuclear membranes  
USE: **Cell membranes**

### **Nuclear physics**

UF: Atomic physics  
BT: Physics  
RT: Radioactivity  
Radioisotopes

### **Nuclear power plants**

SN: Before 1982 search POWER PLANTS  
UF: Atomic power plants  
BT: Power plants  
RT: Nuclear energy  
Radioactive contamination  
Radioactive wastes

### **Nuclear propulsion**

RT: Propulsion systems  
Submarines  
Underwater propulsion

### **Nuclear radiations**

BT: Ionizing radiation  
RT: Electromagnetic radiation  
Fallout  
Radioactive wastes  
Radioactivity  
Radiochemistry  
Radiometric dating

Nuclear wastes

USE: **Radioactive wastes**

### **Nuclei**

UF: Nucleus  
BT: Cell constituents  
RT: Genomes  
Ice nuclei  
Karyology  
Meiosis  
Mitosis  
Protoplasts

### **Nucleic acids**

BT: Organic acids  
NT: DNA  
RNA  
RT: Genetics  
Nucleotides  
Protein denaturation  
Proteins

### **Nucleotide sequence**

RT: Nucleotides

### **Nucleotides**

BT: Organic compounds  
NT: ADP  
AMP  
ATP

RT: Nucleic acids  
Nucleotide sequence  
Organic acids

Nucleus

USE: **Nuclei**

Nuclides

USE: **Isotopes**

### **Numerical analysis**

BT: Mathematical analysis  
NT: Approximation  
Finite difference method  
Finite element method  
Functional analysis  
Perturbation method  
RT: Algorithms  
Boundary value problems  
Computer programs  
Conversion tables  
Critical path method  
Differential equations  
Game theory  
Integral equations  
Mathematics  
Nonlinear equations  
Numerical taxonomy  
PERT  
Splines  
Statistical analysis  
Tidal equations

Numerical models

USE: **Mathematical models**

### **Numerical taxonomy**

BT: Taxonomy  
RT: Biometrics  
Correlation analysis  
Meristic counts  
Numerical analysis  
Variance analysis

### **Nursery grounds**

SN: Regions particularly rich in food organisms where feeding of fish larvae and juveniles takes place  
UF: Feeding ground  
RT: Nursery ponds  
Spawning  
Spawning grounds

### **Nursery ponds**

UF: Fish rearing ponds  
BT: Growing ponds  
RT: Nursery grounds

### **Nutrient cycles**

SN: Cycle of nutrients in aquatic environments  
BT: Biogeochemical cycle  
NT: Carbon cycle  
Nitrogen cycle  
Phosphorus cycle  
Silicon cycle  
RT: Biological production  
Nutrient deficiency  
Nutrients (mineral)

### **Nutrient deficiency**

UF: Nutrient depletion  
BT: Dietary deficiencies  
RT: Nutrient cycles  
Nutrients (mineral)  
Nutrition  
Vitamin deficiencies

Nutrient depletion

USE: **Nutrient deficiency**

Nutrient salts

USE: **Nutrients (mineral)**

### **Nutrients (mineral)**

SN: Inorganic and organic nutrients in water  
UF: Nutrient salts  
RT: Biological production  
Chemosynthesis  
Energy budget  
Eutrophication  
Fertilizers  
Hypertrophy  
Limiting factors  
Nitrates  
Nutrient cycles  
Nutrient deficiency  
Nutrition  
Phosphates  
Silicates  
Trace elements

### **Nutrition**

SN: Use of a more specific term is recommended  
NT: Animal nutrition  
Plant nutrition  
RT: Feeding  
Food  
Food absorption  
Metabolism  
Nutrient deficiency  
Nutrients (mineral)  
Nutritional requirements  
Nutritional types  
Nutritive value  
Physiology

## ASFA THESAURUS

### Nutrition disorders

SN: Diseases caused by deficiencies and imbalances of major dietary components

UF: Nutritional diseases

BT: Diseases

RT: Anaemia

Animal diseases

Deficiency diseases

Dietary deficiencies

Diets

Human diseases

Husbandry diseases

Metabolic disorders

Nutritional requirements

Starvation

Vitamin deficiencies

Nutritional diseases

USE: **Nutrition disorders**

### Nutritional requirements

UF: Food requirements

RT: Balanced diets

Balanced rations

Body conditions

Deficiency diseases

Dietary deficiencies

Diets

Ecological efficiency

Feeding experiments

Food consumption

Nutrition

Nutrition disorders

Nutritive value

Trophodynamic cycle

### Nutritional types

NT: Autotrophy

Heterotrophy

RT: Nutrition

### Nutritive value

RT: Balanced rations

Calories

Carbohydrates

Dietary deficiencies

Diets

Feed efficiency

Food

Food composition

Nutrition

Nutritional requirements

Proteins

Vitamins

### Nyctimeral rhythms

BT: Biological rhythms

RT: Diurnal variations

Light effects

Moon phases

Phototaxis

Phototropism

### Nymphs

BT: Insect larvae

RT: Emergence

Insect eggs

### Oases

### Obduction

RT: Continental crust

Plate tectonics

Plates

Subduction

### Obituaries

RT: Documents

### OBS

USE: **Ocean bottom seismometers**

### Observation chambers

BT: Manned vehicles

NT: Bathyspheres

RT: Tethered vehicles

Observation platforms

USE: **Instrument platforms**

### Obsidian

BT: Glass

RT: Volcanic glass

Occluded fronts

USE: **Atmospheric fronts**

Ocean basin floor

USE: **Ocean floor**

### Ocean basins

SN: Use for studies on major ocean basins, their origin, evolution and present configuration. Use OCEAN FLOOR for basins with each ocean and for sedimentation studies

UF: Submarine basins

BT: Basins

Submarine features

RT: Abyssal plains

Bottom topography

Continental drift

Epeirogeny

Forearc basins

Ocean floor

Oceanic crust

Structural basins

Ocean beaches

USE: **Beaches**

### Ocean bottom seismometers

UF: OBS

BT: Seismometers

Ocean bottom topography

USE: **Bottom topography**

### Ocean circulation

UF: General circulation (oceans)

Oceanic circulation

BT: Water circulation

NT: Abyssal circulation

Equatorial circulation

Gyres

Meridional oceanic circulation

Oceanic eddies

Thermohaline circulation

RT: Atmospheric circulation

Bottom topography effects

Heat transport

Ocean currents

Ocean-atmosphere system

Surface circulation

Sverdrup transport

Wind-driven circulation

Ocean crust

USE: **Oceanic crust**

Ocean current energy conversion

USE: **Current power**

### Ocean currents

SN: Search also WATER

CURRENTS

BT: Water currents

RT: Bottom currents

Boundary currents

Countercurrents

Current rings

Dynamical oceanography

Ocean circulation

Palaeocurrents

Shelf currents

Subsurface currents

Surface currents

Undercurrents

Wind-driven currents

Ocean data routes

USE: **Standard ocean sections**

### Ocean dumping

SN: The dumping of wastes at sea

UF: Dumping

BT: Waste disposal

RT: Marine pollution

Pollution convention

Ocean engineering

USE: **Offshore engineering**

## ASFA THESAURUS

Ocean environment  
USE: **Marine environment**

Ocean farming  
USE: **Marine aquaculture**

**Ocean floor**  
SN: Use for natural phenomena and processes taking place on seafloor. For tectonic studies use OCEAN BASINS. Before 1983 search also SEABED  
UF: Deep-sea bed  
Floor (ocean)  
Ocean basin floor  
Sea bed  
Sea floor  
Seabed  
RT: Abyssal plains  
Bottom topography  
Bottom tow  
Continental rise  
Continental slope  
Ocean basins  
Oceanic crust  
Seafloor mapping  
Seafloor sampling  
Seafloor spreading  
Submarine features  
Trenches (pipelines)

Ocean floor topography  
USE: **Bottom topography**

Ocean law  
USE: **Law of the sea**

**Ocean loading**  
UF: Tidal loading  
BT: Loads (forces)  
RT: Cyclic loading  
Earth tides  
Tides

Ocean outfalls  
USE: **Outfalls**

Ocean plateaux  
USE: **Submarine plateaux**

**Ocean policy**  
SN: Search also MARINE POLICY  
UF: Marine policy  
BT: Policies  
RT: Law of the sea  
Ocean space  
Seabed conventions

Ocean ranching  
USE: **Ranching**

**Ocean space**  
SN: In the legal aspect only  
UF: Maritime space  
NT: Contiguous zones  
Exclusive economic zone  
High seas  
International waters  
Territorial waters  
RT: Extended jurisdiction  
Ocean policy

**Ocean stations**  
UF: Ocean weather stations  
BT: Fixed stations  
RT: Data buoys  
Data reports  
Weather ships

Ocean surface temperature  
USE: **Surface temperature**

Ocean surveillance  
USE: **Surveillance and enforcement**

Ocean thermal energy conversion  
USE: **OTEC**

**Ocean tides**  
BT: Tides

Ocean water  
USE: **Sea water**

Ocean waves  
USE: **Surface water waves**

Ocean weather ships  
USE: **Weather ships**

Ocean weather stations  
USE: **Ocean stations**

**Ocean-atmosphere system**  
UF: Atmosphere-ocean system  
RT: Air-sea coupling  
Air-sea interaction  
Air-water exchanges  
Climate  
Dynamical oceanography  
Earth atmosphere  
Hydrosphere  
Ocean circulation  
Ocean-ice-atmosphere system  
Teleconnections

**Ocean-ice-atmosphere system**  
RT: Air-sea coupling  
Ocean-atmosphere system  
Sea ice

Oceanaria  
USE: **Aquaria**

**Oceanic boundary layer**  
BT: Boundary layers  
RT: Air-water interface  
Surface Ekman layer  
Surface mixed layer  
Upper ocean

Oceanic circulation  
USE: **Ocean circulation**

**Oceanic convection**  
BT: Convection

**Oceanic convergences**  
BT: Convergence zones  
NT: Polar convergences  
Subtropical convergences  
RT: Advection  
Downwelling  
Oceanic divergences  
Water masses

**Oceanic crust**  
SN: Before 1983 search also SUBMARINE CRUST  
UF: Crust (ocean)  
Ocean crust  
Submarine crust  
Suboceanic crust  
BT: Earth crust  
RT: Continental crust  
Crustal accretion  
Marine geology  
Ocean basins  
Ocean floor  
Oceanization  
Sima  
Subduction

**Oceanic deserts**  
RT: Gyres

**Oceanic divergences**  
BT: Divergence zones  
RT: Oceanic convergences  
Upwelling

**Oceanic eddies**  
SN: Before 1982 search EDDIES (OCEANIC)  
UF: Eddies (oceanic)  
BT: Ocean circulation  
NT: Current rings  
Mesoscale eddies

## ASFA THESAURUS

### **Oceanic fronts**

UF: Oceanographic fronts  
 BT: Fronts  
 NT: Benthic fronts  
   Density fronts  
   Estuarine front  
   Shelf fronts  
 RT: Frontal features  
   Subtropical convergences

### **Oceanic islands**

BT: Islands  
 NT: Volcanic islands

Oceanic microstructure

USE: **Microstructure**

### **Oceanic province**

UF: Oceanic region  
 BT: Pelagic environment  
 NT: Abyssopelagic zone  
   Bathypelagic zone  
   Epipelagic zone  
   Mesopelagic zone  
 RT: Neritic province

Oceanic region

USE: **Oceanic province**

### **Oceanic response**

UF: Response (oceanic)  
 RT: Atmospheric forcing  
   Hurricanes  
   Response time

Oceanic ridges

USE: **Submarine ridges**

### **Oceanic trenches**

SN: Before 1982 search  
   **TRENCHES**  
 UF: Submarine trenches  
   Trenches (oceanic)  
 BT: Submarine features  
 RT: Benioff zone  
   Continental margins  
   Converging plate boundaries  
   Deep-sea furrows  
   Forearc basins  
   Island arcs  
   Plate convergence  
   Potential temperature  
   Subduction zones  
   Valleys

### **Oceanic turbulence**

BT: Turbulence  
 RT: Dye dispersion  
   Microstructure  
   Water motion  
   Wave dissipation

### **Oceanite**

BT: Basalts

### **Oceanization**

SN: Conversion of continental crust  
   into oceanic crust  
 RT: Continental crust  
   Oceanic crust

### **Oceanodromous migrations**

BT: Migrations  
 RT: Feeding migrations  
   Spawning migrations

Oceanographers

USE: **Marine scientists**

### **Oceanographic atlases**

BT: Atlases  
 RT: Climatological charts  
   Geological maps  
   Hydrographic charts  
   Hydrographic sections  
   Oceanographic data  
   Oceanography

Oceanographic buoys

USE: **Data buoys**

Oceanographic cartography

USE: **Cartography**

Oceanographic charts

USE: **Hydrographic charts**

### **Oceanographic data**

BT: Data  
 NT: Bathymetric data  
   Bathythermographic data  
 RT: Current data  
   Marsden squares  
   Oceanographic atlases  
   Oceanographic surveys  
   Salinity data  
   Standard ocean sections  
   Time series  
   Water temperature data  
   Wave data

### **Oceanographic equipment**

UF: Oceanographic instruments  
 BT: Equipment  
 RT: Bathymeters  
   Cable depressors  
   Collecting devices  
   Data buoys  
   Deck equipment  
   Depth recorders  
   Free-fall instruments  
   GEK  
   Geophysical equipment  
   Laboratory equipment

Measuring devices

Profilers

Remote sensing equipment

Samplers

Sensors

Sound recorders

Sounding lines

Streamers

Thermistor chains

Undulators

Oceanographic fronts

USE: **Oceanic fronts**

### **Oceanographic institutions**

SN: Before 1982 use  
   **OCEANOLOGICAL**  
   **INSTITUTIONS**  
 UF: Oceanological institutions  
 BT: Research institutions  
 RT: Biological institutions  
   Fishery institutions  
   Oceanography

Oceanographic instruments

USE: **Oceanographic equipment**

Oceanographic satellites

USE: **Scientific satellites**

### **Oceanographic stations**

SN: Use of a more specific term is  
   recommended  
 UF: Stations (oceanographic)  
 NT: Cruise stations  
   Drifting stations  
   Fixed stations  
   Standard ocean sections  
 RT: Station keeping  
   Station lists

### **Oceanographic surveys**

SN: Before 1983 search also  
   **ENVIRONMENTAL SURVEYS**  
 BT: Environmental surveys  
 RT: Geological surveys  
   Hydrography  
   Oceanographic data  
   Oceanography  
   Site surveys  
   Standard ocean sections

### **Oceanographic tables**

BT: Tables  
 NT: Salinity tables  
 RT: Conversion tables  
   Meteorological tables  
   Navigational tables  
   Tide tables



## ASFA THESAURUS

### **Oceanography**

SN: Before 1982 search also

OCEANOLOGY

UF: Oceanology

BT: Earth sciences

Marine sciences

NT: Chemical oceanography

Coastal oceanography

Dynamical oceanography

Fishery oceanography

Military oceanography

Palaeoceanography

Physical oceanography

Polar oceanography

Radio oceanography

Tropical oceanography

RT: Marine ecology

Marine environment

Marine geology

Meteorology

Oceanographic atlases

Oceanographic institutions

Oceanographic surveys

Oceanological institutions

USE: **Oceanographic institutions**

Oceanology

USE: **Oceanography**

Oceanology (biological)

USE: **Marine ecology**

### **Oceans**

UF: Seas

BT: Water bodies

NT: Marginal seas

RT: Upper ocean

### **OCS**

USE: **Outer continental shelf**

Octopus fisheries

USE: **Cephalopod fisheries**

Odor

USE: **Odour**

### **Odour**

SN: Before 1982 search

ORGANOLEPTIC

PROPERTIES

UF: Aroma

Odor

BT: Organoleptic properties

RT: Olfaction

Odour imprinting

USE: **Imprinting**

### **Oesophagus**

UF: Esophagus

RT: Digestive system

### **Off flavour**

RT: Palatability

Taste

### **Off-bottom culture**

UF: Hanging culture

Long-line culture

Pole culture

Rack culture

BT: Aquaculture techniques

RT: Raft culture

Seaweed culture

Shellfish culture

### **Offshore**

RT: Continental shelves

Offshore bars

USE: **Nearshore bars**

Offshore completion

USE: **Well completion**

### **Offshore docking**

BT: Berthing

RT: Artificial harbours

Deep-water terminals

Tanker terminals

Offshore drilling

USE: **Drilling**

### **Offshore engineering**

SN: Before 1982 search also

MARINE ENGINEERING and

OFFSHORE TECHNOLOGY

UF: Ocean engineering

Offshore technology

Seabed engineering

Underwater engineering

BT: Engineering

RT: Geotechnology

Marine technology

Offshore structures

Petroleum engineering

Underwater exploitation

Underwater exploration

Underwater structures

### **Offshore equipment**

BT: Equipment

RT: Offshore operations

### **Offshore operations**

NT: Deep-sea drilling

Deep-sea mining

RT: Locations (working)

Mineral exploration

Offshore equipment

Oil and gas exploration

Tanker loading

Offshore platforms

USE: **Offshore structures**

Offshore protection

USE: **Surveillance and enforcement**

### **Offshore structures**

SN: Before 1982 search MARINE

STRUCTURES

UF: Marine structures

Offshore platforms

Platforms (offshore)

BT: Hydraulic structures

NT: Articulated columns

Artificial islands

Artificial reefs

Caissons

Fixed platforms

Floating structures

Underwater structures

RT: Accommodation

Concrete structures

Design wave

Node construction

Offshore engineering

Perforated structures

Steel structures

Structural engineering

Work platforms

Offshore technology

USE: **Offshore engineering**

### **Offshore terminals**

BT: Tanker terminals

RT: Berthing

Loading buoys

### **Oil**

RT: Crude oil

Hydrocarbons

Natural gas

Oil and gas exploration

Oil and gas industry

Oil and gas legislation

Oil fields

Oil pollution

Oil production

Petroleum

### **Oil and gas exploration**

UF: Exploratory drilling

BT: Geophysical exploration

Resource exploration

RT: Concessions

Drilling

(cont'd)

## ASFA THESAURUS

### *Oil and gas exploration (cont'd)*

Leases  
Natural gas  
Offshore operations  
Oil  
Oil and gas fields  
Oil and gas industry  
Petroleum geology

### **Oil and gas fields**

NT: Gas condensate fields  
Gas fields  
Marginal fields  
Oil fields  
RT: Oil and gas exploration  
Oil and gas industry  
Oil and gas production  
Petroleum

### **Oil and gas industry**

SN: Before 1982 search OIL  
INDUSTRY  
UF: Gas industry  
Oil industry  
Petroleum industry  
BT: Industries  
RT: Gas terminals  
Natural gas  
Oil  
Oil and gas exploration  
Oil and gas fields  
Oil and gas legislation  
Oil and gas production  
Oil refineries  
Oil wastes  
Petroleum  
Process plants

### **Oil and gas legislation**

BT: Legislation  
RT: Concessions  
Mining legislation  
Natural gas  
Oil  
Oil and gas industry

### **Oil and gas production**

SN: Pertains to petroleum  
production  
UF: Exploitation (oil and gas)  
Production (oil and gas)  
NT: Gas production  
Oil production  
RT: Gas oil separation  
Gas processing  
Oil and gas fields  
Oil and gas industry  
Oil recovery  
Oil treating  
Oil wells  
Production platforms

Subsea production systems  
Well workover operations

### **Oil barriers**

USE: **Oil removal**

### **Oil booms**

USE: **Floating barriers**

### **Oil extraction (animal)**

USE: **Animal oil extraction**

### **Oil fields**

BT: Oil and gas fields  
RT: Oil  
Oil production  
Oil reservoirs

### **Oil films**

USE: **Surface films**

### **Oil gas separation**

USE: **Gas oil separation**

### **Oil in water content**

RT: Emulsions  
Oil production  
Oil-water interface

### **Oil industry**

USE: **Oil and gas industry**

### **Oil leaks**

USE: **Oil spills**

### **Oil pollution**

BT: Pollution  
RT: Ice-oil interface  
Oil  
Oil removal  
Oil seepages  
Oil slicks  
Oil spills  
Oil wastes  
Sediment pollution  
Tar balls  
Water pollution

### **Oil potential**

USE: **Oil reserves**

### **Oil processing**

USE: **Oil treating**

### **Oil production**

SN: Pertains to surface equipment  
and methods used to produce oil  
from underground reservoirs  
UF: Crude oil production  
BT: Oil and gas production  
RT: Crude oil  
Oil

Oil fields  
Oil in water content  
Oil reserves

### **Oil recovery**

RT: Crude oil  
Oil and gas production

### **Oil refineries**

UF: Refineries  
RT: Oil and gas industry  
Process plants

### **Oil removal**

SN: Oil removal in aquatic  
environment by mechanical or  
chemical techniques. Before  
1982 search also SKIMMERS  
and OIL SKIMMERS  
UF: Oil barriers  
Oil removers  
Oil skimmers  
Skimmers (oil removal)  
RT: Adsorption  
Dispersants  
Oil pollution  
Oil slicks  
Oil spills  
Solvents  
Water pollution treatment

### **Oil removers**

USE: **Oil removal**

### **Oil reserves**

UF: Oil potential  
RT: Energy resources  
Oil production  
Oil reservoirs

### **Oil reservoirs**

UF: Reservoirs (oil)  
RT: Cap rocks  
Oil fields  
Oil reserves  
Petroleum geology

### **Oil rigs**

USE: **Drilling rigs**

### **Oil sands**

UF: Tar sands  
BT: Sandstone  
RT: Asphalt  
Bitumens  
Hydrocarbons  
Oil shale  
Petroleum residues  
Subsurface deposits  
Tar

## ASFA THESAURUS

Oil seals  
USE: **Seals (stoppers)**

**Oil seepages**  
BT: Seepages  
RT: Oil pollution

**Oil shale**  
BT: Shale  
RT: Hydrocarbons  
Kerogen  
Oil sands  
Petroleum residues  
Subsurface deposits

Oil skimmers  
USE: **Oil removal**

**Oil slicks**  
SN: Layers of oily substances on water surface. Before 1982 search also SLICKS  
UF: Slicks (oil)  
BT: Slicks  
RT: Containment  
Oil pollution  
Oil removal  
Oil spills  
Oil wastes  
Surface films

**Oil spills**  
SN: Spilling from tankers, pipelines and drilling operations  
UF: Leaks (oil)  
Oil leaks  
BT: Accidents  
RT: Containment  
Dispersants  
Fire hazards  
Ice-oil interface  
Oil pollution  
Oil removal  
Oil slicks  
Oil wastes

Oil tankers  
USE: **Tanker ships**

**Oil tanks**  
BT: Tanks  
RT: Underwater structures

Oil terminals  
USE: **Tanker terminals**

**Oil treating**  
SN: Pertains to field operations  
UF: Crude oil treating  
Oil processing  
RT: Gas flaring

Oil and gas production  
Separation processes

**Oil wastes**  
BT: Wastes  
RT: Industrial wastes  
Oil and gas industry  
Oil pollution  
Oil slicks  
Oil spills

**Oil water separation**  
UF: Water oil separation  
BT: Separation  
RT: Adsorption  
Water treatment

Oil well blowouts  
USE: **Blowouts**

**Oil wells**  
UF: Wells (oil and gas)  
RT: Drilling  
Oil and gas production  
Petroleum  
Underwater exploitation  
Well completion

**Oil-gas interface**  
UF: Gas-oil interface  
BT: Interfaces  
RT: Gases  
Natural gas  
Oil-water interface  
Petroleum

Oil-ice interface  
USE: **Ice-oil interface**

**Oil-water interface**  
UF: Water-oil interface  
BT: Interfaces  
RT: Oil in water content  
Oil-gas interface  
Petroleum

Oils (fish)  
USE: **Fish oils**

**Oleic acid**  
BT: Organic acids

**Olfaction**  
BT: Sense functions  
RT: Alarm substances  
Chemoreception  
Odour  
Olfactory organs

**Olfactory organs**  
BT: Sense organs  
RT: Chemical stimuli

Chemoreceptors  
Chemotaxis  
Olfaction

Olfactory stimuli  
USE: **Chemical stimuli**

**Oligocene**  
BT: Palaeogenes

**Oligotrophic lakes**  
BT: Lakes  
RT: Dystrophic lakes  
Eutrophic lakes

Olistoliths  
USE: **Sedimentary structures**

**Olistostromes**  
RT: Debris flow  
Melanges  
Sedimentary structures  
Slump structures  
Turbidity current structures

**Olivine**  
BT: Silicate minerals

**Omega**  
BT: Radio navigation  
RT: Navigational tables

**Omnivores**  
BT: Heterotrophic organisms  
RT: Carnivores  
Detritus feeders  
Herbivores  
Trophic levels

**One-atmosphere systems**  
RT: Deep-sea diving  
Diving bells  
Diving suits  
Life support systems

Onshore currents  
USE: **Nearshore currents**

**Ontogeny**  
BT: Biogeny  
RT: Biological development  
Developmental stages  
Embryology  
Life cycle  
Morphogenesis  
Organogenesis  
Phylogeny

**Oocytes**  
BT: Eggs

## ASFA THESAURUS

### Oogenesis

UF: Ovogenesis  
BT: Gametogenesis  
RT: Eggs  
Ovaries  
Ovulation  
Sexual cells  
Vitellogenesis

### Ooids

RT: Concretions  
Oolites

### Oolites

RT: Concretions  
Limestone  
Ooids

### Oospores

USE: **Spores**

### Ooze (calcareous)

USE: **Calcareous ooze**

### Ooze (siliceous)

USE: **Siliceous ooze**

### Oozes

NT: Calcareous ooze  
Siliceous ooze  
RT: Biogenic deposits  
Mud  
Sapropels  
Sediments  
Shells

### Opal

UF: Opaline  
BT: Silicate minerals

### Opaline

USE: **Opal**

### Open access resources

USE: **Common property resources**

### Open channel flow

USE: **Channel flow**

### Open mines

USE: **Pits**

### Open running water culture

USE: **Open systems**

### Open sea aquaculture

USE: **Marine aquaculture**

### Open systems

SN: An aquaculture water system in which water continuously flows through the culture area and is

discharged after a single pass  
UF: Open running water culture  
BT: Aquaculture systems  
RT: Cooling systems  
Thermal aquaculture

### Operating costs

USE: **Operational costs**

### Operational costs

UF: Manufacturing costs  
Operating costs  
BT: Costs  
RT: Taxes

### Operations research

NT: Critical path method  
Game theory  
Mathematical programming  
PERT  
RT: Mathematical models  
Planning  
Probability theory  
Simulation  
Statistical models  
Stochastic processes  
System analysis

### Ophiolite complexes

USE: **Ophiolites**

### Ophiolites

UF: Ophiolite complexes  
BT: Ultramafic rocks

### Optical classification

SN: Optical classification of water masses  
BT: Classification  
RT: Irradiance  
Optical water types  
Water masses

### Optical filters

BT: Filters  
RT: Cameras  
Light absorption  
Light transmission  
Optical instruments

### Optical instruments

RT: Light measuring instruments  
Optical filters  
Optics

### Optical masers

USE: **Lasers**

### Optical microscopes

USE: **Microscopes**

### Optical microscopy

USE: **Light microscopy**

### Optical properties

BT: Physical properties  
NT: Absorptance  
Angular distribution  
Attenuance  
Colour  
Extinction coefficient  
Reflectance  
Refractive index  
Scattering coefficient  
Spectral composition  
Transmittance  
Transparency  
Volume scattering function  
RT: Anisotropy  
Emissivity  
Irradiance  
Light  
Light effects  
Light intensity  
Optics  
Polarization  
Radiance  
Surface properties

### Optical water types

BT: Water types  
RT: Irradiance  
Optical classification  
Transmittance

### Optics

BT: Physics  
RT: Atmospheric optical phenomena  
Fibre optics  
Lasers  
Light  
Optical instruments  
Optical properties  
Photography  
Visibility  
Vision

### Orbital velocity

UF: Particle velocity (waves)  
Wave particle velocity  
BT: Velocity  
RT: Particle motion  
Water waves  
Wave drift velocity  
Wave velocity

### Ordovician

SN: Before 1982 search  
ORDOVICIAN  
SYSTEM  
BT: Palaeozoic

## ASFA THESAURUS

Ore carriers  
USE: **Bulk carriers**

### Ores

BT: Mineral resources  
RT: Mineral deposits  
Subsurface deposits

### Organ removal

BT: Removal  
NT: Castration  
Eyestalk extirpation  
Hypophysectomy  
RT: Body organs  
Regeneration  
Transplants

Organ transplants

USE: **Transplants**

Organelles

USE: **Cell organelles**

### Organic acids

UF: Carboxylic acids  
BT: Acids  
Organic compounds  
NT: Acrylic acid  
Amino acids  
Arachidonic acid  
Carbonic acid  
Fatty acids  
Fulvic acids  
Glycolic acid  
Humic acids  
Nicotinic acid  
Nucleic acids  
Oleic acid  
RT: Alginates  
Carboxylic acid salts  
Inorganic acids  
Lactate  
Nucleotides

### Organic carbon

BT: Carbon  
Organic matter  
NT: Dissolved organic carbon  
Particulate organic carbon  
Total organic carbon

### Organic compounds

UF: Compounds (organic)  
BT: Chemical compounds  
NT: Alcohols  
Aldehydes  
Alkaloids  
Amines  
Azines  
Carbohydrates  
Esters  
Histamines

Hydrocarbons  
Ketones  
Lipids  
Nucleotides  
Organic acids  
Organometallic compounds  
Proteins  
Purines  
Urea  
RT: Aromatics  
Boron compounds  
Carbon compounds  
Chelates  
Chlorine compounds  
Fluorine compounds  
Halogen compounds  
Nitrogen compounds  
Organic constituents  
Organometallic complexes  
Phosphorus compounds

### Organic constituents

SN: Any organic components of biological material  
RT: Amino acids  
Biochemical analysis  
Biochemical composition  
Carbohydrates  
Fats  
Organic compounds  
Proteins

Organic detritus

USE: **Detritus**

### Organic fertilizers

SN: Substances of natural origin used to fertilize soils or the aquatic environment  
BT: Fertilizers  
NT: Composts  
Guano  
Manure  
RT: Fish meal  
Urea

### Organic matter

NT: Dissolved organic matter  
Humus  
Organic carbon  
Organic sediments  
Particulate organic matter  
RT: Anoxic sediments  
Kerogen

### Organic nitrogen

BT: Nitrogen  
NT: Dissolved organic nitrogen  
Particulate organic nitrogen  
RT: Nitrogen compounds

### Organic phosphorus

BT: Phosphorus  
NT: Dissolved organic phosphorus  
Particulate organic phosphorus

Organic production

USE: **Biological production**

### Organic sediments

UF: Carbonaceous deposits  
BT: Biogenic deposits  
Organic matter  
NT: Peat  
Sapropels  
RT: Chemical sediments  
Petroleum

Organic suspended matter

USE: **Suspended organic matter**

### Organic wastes

UF: Animal wastes  
BT: Wastes  
NT: Fish wastes  
RT: Domestic wastes  
Sewage  
Sludge

Organisations

USE: **Organizations**

### Organism aggregations

SN: A grouping or crowding of separate organisms  
UF: Aggregations (organisms)  
RT: Aquatic communities  
Aquatic organisms

Organism associations

USE: **Ecological associations**

Organism dating

USE: **Age determination**

Organism guiding

USE: **Guiding devices**

### Organism morphology

SN: Before 1982 search  
MORPHOLOGY  
(ORGANISMS)  
UF: External anatomy  
Morphology (biology)  
Morphology (organisms)  
BT: Biology  
NT: Animal morphology  
Cell morphology  
Plant morphology  
RT: Anatomy  
Biopolymorphism  
Functional morphology

(cont'd)

## ASFA THESAURUS

### *Organism morphology (cont'd)*

Morphogenesis  
Phenotypes  
Sexual dimorphism  
Taxonomy

### Organisms (aquatic)

USE: **Aquatic organisms**

### Organizations

UF: Associations  
Organisations  
Societies  
NT: Companies  
Education establishments  
Financial institutions  
Fishery organizations  
Information centres  
International organizations  
Research institutions  
Trade organizations  
Water authorities  
RT: Conferences  
Institutional resources  
Personnel

### Organogenesis

SN: The formation and development of organs  
UF: Organogeny  
RT: Body organs  
Embryology  
Morphogenesis  
Ontogeny  
Vitellogenesis

### Organogeny

USE: **Organogenesis**

### Organoleptic properties

BT: Properties  
NT: Digestibility  
Odour  
Taste  
RT: Water properties

### Organometallic complexes

RT: Ligands  
Metals  
Organic compounds

### Organometallic compounds

BT: Organic compounds  
NT: Methyl mercury  
RT: Mercury compounds

### Organs (animal)

USE: **Animal organs**

### Organs (body)

USE: **Body organs**

### Organs (plant)

USE: **Plant organs**

### Orientation

SN: For biological purposes use  
ORIENTATION BEHAVIOUR  
NT: Core orientation  
Grain orientation  
RT: Animal navigation  
Anisotropy  
Isotropy  
Orientation behaviour  
Polarization  
Vertical migrations

### Orientation (biological)

USE: **Orientation behaviour**

### Orientation behaviour

UF: Animal orientation  
Orientation (biological)  
BT: Behaviour  
NT: Kinesis  
Taxis  
RT: Antennae  
Migrations  
Orientation  
Sense functions  
Stimuli  
Tropism

### Ormer fisheries

USE: **Gastropod fisheries**

### Ornamental fish

UF: Aquarium fish  
BT: Fish  
RT: Aquaria  
Aquarium culture  
Tropical fish

### Ornamentation

### Ornithine

BT: Amino acids

### Ornithologists

BT: Zoologists  
RT: Ornithology

### Ornithology

BT: Vertebrate zoology  
RT: Aquatic birds  
Ornithologists

### Orogenesis

USE: **Orogeny**

### Orogeny

UF: Mountain building  
Orogenesis  
BT: Tectonics

### RT: Active margins

Epeirogeny  
Geosynclines  
Mountains  
Plate tectonics  
Rifting

### Orthoclase

BT: Feldspars

### Orthogonals

RT: Caustics  
Wave refraction diagrams

### Orthophosphate

BT: Phosphates

### Oscillations

NT: Forced oscillations  
Southern oscillation  
Tidal oscillations  
RT: Motion  
Perturbations  
Resonance  
Temporal variations  
Vibration

### Oscillatory currents

USE: **Oscillatory flow**

### Oscillatory flow

UF: Oscillatory currents  
RT: Bed forms

### Fluid flow

Tidal currents  
Unidirectional flow

### Oscillatory waves

BT: Water waves  
NT: Progressive waves  
Standing waves

### Osmium

BT: Heavy metals  
RT: Osmium isotopes

### Osmium isotopes

BT: Isotopes  
RT: Osmium

### Osmoregulation

RT: Amphihaline species  
Euryhalinity  
Ion accumulation  
Ion transport  
Ions  
Osmosis  
Osmotic adaptations  
Osmotic pressure  
Salinity tolerance

## ASFA THESAURUS

### **Osmosis**

BT: Separation processes  
 NT: Reverse osmosis  
 RT: Adsorption  
   Dialysis  
   Diffusion  
   Mass transfer  
   Molecular diffusion  
   Osmoregulation  
   Osmotic adaptations  
   Osmotic pressure  
   Permeability

### **Osmotic adaptations**

BT: Adaptations  
 RT: Amphihaline species  
   Euryhalinity  
   Osmoregulation  
   Osmosis  
   Osmotic pressure

### **Osmotic pressure**

SN: Before 1982 search OSMOSIS  
 UF: Pressure (osmotic)  
 BT: Pressure  
 RT: Osmoregulation  
   Osmosis  
   Osmotic adaptations  
   Salinity power

### **Osteology**

BT: Vertebrate zoology  
 RT: Anatomy  
   Bones  
   Skeleton

### **Osteonecrosis**

USE: **Bone necrosis**

### **Ostreaculture**

USE: **Oyster culture**

### **OTEC**

UF: Ocean thermal energy  
   conversion  
   Thalassothermal power  
 BT: Thermal power  
 RT: Artificial upwelling  
   OTEC plants

### **OTEC plants**

BT: Power plants  
 RT: Heat exchangers  
   OTEC  
   Process plants

### **Otolith reading**

BT: Age determination  
 RT: Otoliths

### **Otoliths**

RT: Bones

### **Endoskeleton**

Otolith reading  
 Skull

### **Otter boards**

RT: Trawl nets  
 Trawling

### **Otter trawlers**

USE: **Trawlers**

### **Otter trawls (bottom)**

USE: **Bottom trawls**

### **Otter trawls (midwater)**

USE: **Midwater trawls**

### **Outcrops**

RT: Mineral deposits  
 Rocks

### **Outdoor recreation**

USE: **Recreation**

### **Outer continental shelf**

UF: OCS  
 BT: Continental shelves

### **Outer mantle**

USE: **Upper mantle**

### **Outfalls**

SN: Before 1986 search also  
   SEWAGE OUTFALLS  
 UF: Ocean outfalls  
   Sewage outfalls  
 BT: Hydraulic structures  
 RT: Buoyant jets  
   Effluents  
   Sewage  
   Water pollution

### **Outflow**

SN: Component of water budget  
 NT: Overflow  
   River outflow  
 RT: Inflow  
   Outflow waters  
   Water budget  
   Water exchange

### **Outflow waters**

BT: Water masses  
 RT: Core layer method  
 Outflow

### **Ova**

USE: **Eggs**

### **Ovalbumin**

USE: **Albumins**

### **Ovaries**

BT: Gonads  
 RT: Fecundity  
   Oogenesis  
   Ovulation  
   Sterility

### **Overcrowding**

SN: Condition in which numerical  
 densities of animals per unit  
 area lead to disruptive and/or  
 damaging physiological and  
 behavioural effects  
 RT: Competition  
   Stocking density

### **Overexploitation**

NT: Overfishing  
 RT: Rare resources

### **Overfishing**

SN: Fishing more intensely than a  
 desirable level  
 UF: Fishing overexploitation  
 BT: Commercial fishing  
   Overexploitation  
 RT: Depleted stocks  
   Fishing mortality  
   Species extinction  
   Yield

### **Overflow**

BT: Outflow  
 RT: Boluses  
   Cascading

### **Overtopping**

UF: Wave overtopping  
 RT: Breakwaters  
   Water waves

### **Overturn**

UF: Convective overturn  
   Overturning  
   Turnover  
 BT: Vertical water movement  
 RT: Lake dynamics  
   Mixing processes  
   Renewal  
   Water mixing

### **Overturning**

USE: **Overturn**

### **Overwash**

SN: That portion of the uprush that  
 carries over the crest of a  
 berm or of a structure  
 RT: Water waves

## ASFA THESAURUS

### Overwintering

UF: Overwintering sites  
RT: Migrations  
Migratory species  
Overwintering techniques  
Winter

Overwintering sites

USE: **Overwintering**

### Overwintering techniques

SN: Aquaculture technique to  
reduce winter effects on ponds  
BT: Aquaculture techniques  
RT: Overwintering  
Winter  
Winterkill

### Oviparity

UF: Oviparous  
RT: Eggs  
Ovoviviparity  
Sexual reproduction  
Viviparity

Oviparous

USE: **Oviparity**

### Oviposition

RT: Eggs

Ovogenesis

USE: **Oogenesis**

Ovoviparous

USE: **Ovoviviparity**

### Ovoviviparity

UF: Ovoviparous  
RT: Eggs  
Oviparity  
Sexual reproduction

### Ovulation

RT: Eggs  
Oogenesis  
Ovaries  
Sexual maturity  
Sexual reproduction

Ownership

USE: **Property rights**

### Oxbow lakes

BT: Lakes  
RT: River meanders  
Rivers

### Oxic conditions

UF: Aerobic conditions  
RT: Anoxic conditions  
Oxic sediments

### Oxic sediments

UF: Aerobic sediments  
BT: Sediments  
RT: Anoxic sediments  
Oxic conditions

### Oxidation

BT: Chemical reactions  
RT: Antioxidants  
Biogeochemical cycle  
Corrosion  
Cytochromes  
Detoxification  
Electrolysis  
Oxygen demand  
Oxygenation  
Redox potential  
Redox reactions

Oxidation lagoons

USE: **Sewage ponds**

Oxidation-reduction potential

USE: **Redox potential**

Oxidation-reduction reactions

USE: **Redox reactions**

### Oxide minerals

BT: Minerals  
NT: Bauxite  
Birnessite  
Boehmite  
Brucite  
Cassiterite  
Chromite  
Cristobalite  
Gibbsite  
Goethite  
Haematite  
Ilmenite  
Magnetite  
Pyrolusite  
Rutile  
Todorokite

### Oxides

BT: Oxygen compounds  
NT: Iron oxides  
Manganese oxides  
Nitrous oxide  
Sulphur oxides

### Oxidoreductases

SN: Before 1982 search ENZYMES  
BT: Enzymes  
RT: Redox potential  
Redox reactions

### Oxygen

BT: Atmospheric gases  
Nonmetals

NT: Dissolved oxygen

RT: Air

Anoxia  
Anoxic sediments  
Deoxygenation  
Oxygen compounds  
Oxygen consumption  
Oxygen demand  
Oxygen depletion  
Oxygen isotopes  
Oxygen minimum layer  
Oxygen sections  
Oxygenation  
Ozone

### Oxygen compounds

BT: Chemical compounds  
NT: Oxides  
RT: Oxygen  
Water

### Oxygen consumption

SN: Consumption of oxygen by  
aquatic organisms, including  
consumption rate and measuring  
methods  
RT: Aerobic respiration  
Anoxic conditions  
Conversion factors  
Hypoxia  
Metabolism  
Oxygen  
Oxygen depletion  
Respirometers

Oxygen content

USE: **Dissolved oxygen**

### Oxygen demand

UF: Total oxygen demand  
NT: Biochemical oxygen demand  
Chemical oxygen demand  
RT: Biological production  
Deoxygenation  
Metabolism  
Oxidation  
Oxygen  
Oxygenation  
Photosynthesis  
Respiration

### Oxygen depletion

SN: Depletion of dissolved oxygen  
by biological oxidation  
reduction process of organic  
matter or by mass development  
of phytoplankton  
BT: Depletion  
NT: Anoxia  
RT: Anoxic basins  
Anoxic conditions

(cont'd)



## ASFA THESAURUS

### *Oxygen depletion (cont'd)*

Anoxic sediments  
Degradation  
Deoxygenation  
Hypoxia  
Oxygen  
Oxygen consumption  
Redox potential  
Winterkill

### **Oxygen isotope dating**

BT: Radiometric dating  
RT: Oxygen isotopes

### **Oxygen isotope ratio**

RT: Oxygen isotope stratigraphy  
Oxygen isotopes  
Radiometric dating

### **Oxygen isotope stratigraphy**

BT: Stratigraphy  
RT: Oxygen isotope ratio  
Oxygen isotopes

### **Oxygen isotopes**

BT: Isotopes  
RT: Oxygen  
Oxygen isotope dating  
Oxygen isotope ratio  
Oxygen isotope stratigraphy

### **Oxygen maximum layer**

BT: Core layers (water)  
RT: Oxygen profiles

### **Oxygen minimum layer**

BT: Core layers (water)  
RT: Dissolved oxygen  
Oxygen  
Oxygen profiles  
Oxygen sections

### Oxygen poisoning

USE: **Hypoxia**

### **Oxygen profiles**

SN: Vertical distribution of  
dissolved oxygen in water bodies  
BT: Vertical profiles  
RT: Dissolved oxygen  
Oxygen maximum layer  
Oxygen minimum layer  
Oxygen sections

### **Oxygen sections**

BT: Hydrographic sections  
RT: Oxygen  
Oxygen minimum layer  
Oxygen profiles  
Vertical distribution

### **Oxygenation**

RT: Aeration  
Biochemical oxygen demand  
Deoxygenation  
Oxidation  
Oxygen  
Oxygen demand  
Water treatment

### Oyster beds

USE: **Oyster reefs**

### **Oyster culture**

UF: Ostreaculture  
BT: Mollusc culture  
NT: Pearl culture  
RT: Cultch  
Oyster fisheries  
Oyster reefs  
Spat  
Tray culture

### **Oyster fisheries**

BT: Mollusc fisheries  
NT: Pearl fisheries  
RT: Estuarine fisheries  
Oyster culture  
Oyster reefs

### **Oyster reefs**

UF: Oyster beds  
BT: Reefs  
RT: Oyster culture  
Oyster fisheries

### **Ozonation**

SN: The sterilization of culture  
system water through the  
addition of ozone  
BT: Sterilization  
RT: Ozone

### **Ozone**

BT: Atmospheric gases  
RT: Earth atmosphere  
Oxygen  
Ozonation  
Ultraviolet radiation

### **P-waves**

UF: Compressional waves (seismic)  
Primary waves  
BT: Body waves  
RT: Compressional wave velocities  
S-waves

### **Pack ice**

UF: Ice floes  
BT: Floating ice  
RT: Ice barriers  
Ice canopy

### Ice drift

Ice fields

### Packages

USE: **Containers**

### Packaging fishery products

USE: **Packing fishery products**

### Packaging materials

USE: **Packing materials**

### **Packing fishery products**

SN: Referring to methods,  
techniques and material for  
packing industrial fishery  
products  
UF: Packaging fishery products  
RT: Fishery industry  
Fishery products  
Packing materials  
Processed fishery products

### **Packing materials**

UF: Packaging materials  
BT: Materials  
RT: Packing fishery products

### Paddy fields

USE: **Rice fields**

### Paedomorphism

USE: **Neoteny**

### **Paints**

BT: Coating materials  
RT: Antioxidants  
Chemical pollutants  
Primers

### Pair seines

USE: **Boat seines**

### Pair trawlers

USE: **Trawlers**

### Pair trawling

USE: **Trawling**

### Pair trawls (bottom)

USE: **Bottom trawls**

### Pair trawls (midwater)

USE: **Midwater trawls**

### Palaemonid fisheries

USE: **Shrimp fisheries**

# ASFA THESAURUS

## Palaeo studies

UF: Paleo studies  
 NT: Palaeoceanography  
   Palaeoclimatology  
   Palaeoecology  
   Palaeolimnology  
   Palaeontology  
   Palaeotopography

Palaeobathymetry  
 USE: **Palaeotopography**

## Palaeoceanography

SN: Before 1986 search also  
   **PALEOOCEANOGRAPHY**  
 UF: Palaeoceanography  
 BT: Oceanography  
   Palaeo studies  
 RT: Fossil sea water  
   Palaeoenvironments  
   Palaeontology  
   Palaeosalinity  
   Palaeotemperature  
   Palaeotopography

## Palaeocene

SN: Before 1982 search  
   **PALEOCENE EPOCH**  
 BT: Palaeogene

## Palaeoclimate

BT: Climate  
 RT: Climatic changes  
   Continental drift  
   Fossils  
   Ice ages  
   Ice cover  
   Interglacial periods  
   Palaeoclimatology  
   Palaeoenvironments

## Palaeoclimatology

BT: Climatology  
   Palaeo studies  
 RT: Eolian dust  
   Geomorphology  
   Palaeoclimate  
   Palaeontology  
   Stratigraphy

## Palaeocurrents

RT: Ice rafting  
   Ocean currents  
   Provenance

## Palaeoecology

BT: Ecology  
   Palaeo studies  
 RT: Fossils  
   Land bridges  
   Palaeoenvironments  
   Palaeontology

## Stratigraphy

## Palaeoenvironments

BT: Environments  
 RT: Palaeoceanography  
   Palaeoclimate  
   Palaeoecology  
   Palaeontology  
   Palaeosalinity  
   Palaeotemperature

## Palaeogene

UF: Lower tertiary  
 BT: Tertiary  
 NT: Eocene  
   Oligocene  
   Palaeocene

## Palaeolatitute

BT: Latitude  
 RT: Palaeomagnetism  
   Polar wandering

## Palaeolimnology

BT: Limnology  
   Palaeo studies  
 RT: Palaeontology

## Palaeomagnetism

BT: Geophysics  
   Magnetism  
 RT: Continental drift  
   Geomagnetism  
   Magnetic anomalies  
   Magnetic reversals  
   Magnetic susceptibility  
   Palaeolatitute  
   Plate tectonics  
   Polar wandering  
   Pole positions  
   Remanent magnetization  
   Seafloor spreading

## Palaeontology

UF: Paleontology  
 BT: Palaeo studies  
 NT: Micropalaeontology  
 RT: Archaeology  
   Biofacies  
   Botany  
   Fossils  
   Geology  
   Palaeoceanography  
   Palaeoclimatology  
   Palaeoecology  
   Palaeoenvironments  
   Palaeolimnology  
   Palaeosalinity  
   Palynology  
   Sedimentology  
   Stratigraphy  
   Taxonomy

## Trace fossils

## Zoology

Palaeoceanography  
 USE: **Palaeoceanography**

## Palaeosalinity

BT: Salinity  
 RT: Messinian  
   Palaeoceanography  
   Palaeoenvironments  
   Palaeontology

## Palaeoshorelines

BT: Coastal landforms  
 RT: Palaeotopography  
   Sea level changes

## Palaeotemperature

BT: Water temperature  
 RT: Climatic changes  
   Palaeoceanography  
   Palaeoenvironments

## Palaeotopography

UF: Palaeobathymetry  
 BT: Bottom topography  
   Palaeo studies  
 RT: Palaeoceanography  
   Palaeoshorelines

## Palaeozoic

SN: Before 1982 search  
   **PALEOZOIC ERA**  
 BT: Geological time  
 NT: Cambrian  
   Carboniferous  
   Devonian  
   Ordovician  
   Permian  
   Silurian  
 RT: Phanerozoic

## Palagonite

BT: Volcanic rocks  
 RT: Basalt-seawater interaction  
   Glass  
   Pillow lava

## Palatability

RT: Off flavour  
   Taste  
   Taste tests

## Palatability tests

USE: **Taste tests**

## Paleo studies

USE: **Palaeo studies**

## Paleontology

USE: **Palaeontology**

## ASFA THESAURUS

### **Palladium**

BT: Heavy metals  
RT: Palladium isotopes

### **Palladium isotopes**

BT: Isotopes  
RT: Palladium

### **Paludism**

USE: **Malaria**

### **Palygorskite**

BT: Clay minerals

### **Palynology**

UF: Pollen analysis  
RT: Botany  
Fossil pollen  
Fossil spores  
Geology  
Palaeontology  
Pollen  
Spores  
Taxonomy

### **Pancreas**

BT: Digestive glands  
RT: Insulin

### **Pandalid fisheries**

USE: **Shrimp fisheries**

### **Paralytic shellfish poisoning**

UF: Shellfish poisoning (paralytic)  
BT: Human diseases  
RT: Diarrhetic shellfish poisoning

### **Parameterization**

RT: Parameters

### **Parameters**

NT: Coriolis parameters  
Rossby parameter  
Wind wave parameters  
RT: Parameterization  
Properties

### **Parasite attachment**

UF: Attachment (parasites)  
Parasitic attachment  
BT: Biological attachment  
NT: Lamprey attachment  
RT: Parasites  
Parasitism

### **Parasite control**

BT: Control  
RT: Parasite resistance  
Parasites  
Parasitic diseases  
Parasitism  
Parasitology

### **Pest control**

Protozoan diseases

### **Parasite resistance**

UF: Resistance to parasites  
BT: Biological resistance  
RT: Parasite control  
Parasites  
Parasitism

### **Parasites**

UF: Parasitofauna  
NT: Ectoparasites  
Endoparasites  
RT: Biological vectors  
Commensalism  
Hosts  
Noxious organisms  
Parasite attachment  
Parasite control  
Parasite resistance  
Parasitic diseases  
Parasitism  
Parasitology  
Protozoan diseases  
Symbiosis

### **Parasitic attachment**

USE: **Parasite attachment**

### **Parasitic castration**

SN: Failure of a host to reproduce due to partial or complete destruction of its gonads caused by parasitic activities  
UF: Castration by parasites  
BT: Castration  
RT: Parasitic diseases

### **Parasitic diseases**

UF: Parasitic infestation  
BT: Infectious diseases  
NT: Schistosomiasis  
RT: Anthelmintic agents  
Antiparasitic agents  
Biological vectors  
Boil disease  
Fish diseases  
Fungal diseases  
Malaria  
Parasite control  
Parasites  
Parasitic castration  
Parasitism  
Parasitology  
Plant diseases  
Protozoan diseases  
Whirling disease

### **Parasitic infestation**

USE: **Parasitic diseases**

### **Parasitism**

BT: Interspecific relationships  
NT: Ectoparasitism  
Endoparasitism  
RT: Host preferences  
Hosts  
Parasite attachment  
Parasite control  
Parasite resistance  
Parasites  
Parasitic diseases  
Parasitology  
Pathology  
Prophylaxis  
Protozoan diseases

### **Parasitofauna**

USE: **Parasites**

### **Parasitology**

BT: Ecology  
RT: Bacteriology  
Epidemiology  
Microbiology  
Mycology  
Parasite control  
Parasites  
Parasitic diseases  
Parasitism  
Protozoan diseases

### **Parasympathetic nervous system**

USE: **Autonomic nervous system**

### **Parathyroid**

USE: **Thyroid**

### **Parent stocks**

USE: **Brood stocks**

### **Parental behaviour**

SN: Before 1982 search  
REPRODUCTIVE  
BEHAVIOUR  
UF: Parental care  
BT: Behaviour  
RT: Reproductive behaviour

### **Parental care**

USE: **Parental behaviour**

### **Parks**

USE: **Marine parks**

### **Parrs**

USE: **Juveniles**

### **Parthenogenesis**

BT: Reproduction  
RT: Clones

## ASFA THESAURUS

Partial tides  
USE: **Tidal constituents**

**Partially-mixed estuaries**  
BT: Estuaries

**Particle concentration**  
SN: Use only for suspended particulate matter  
RT: Gravimetric techniques  
Light scattering  
Particle scattering  
Suspended particulate matter  
Turbidity

**Particle counters**  
BT: Counters  
RT: Suspended particulate matter

**Particle distribution**  
RT: Kurtosis  
Particle scattering  
Turbidity

**Particle motion**  
UF: Grain motion  
Sediment particle motion  
Suspended particle motion  
Wave particle motion  
BT: Motion  
NT: Particle settling  
RT: Orbital velocity  
Particulate flux  
Resuspended sediments  
Saltation  
Sediment dynamics  
Sediment movement  
Sediment transport  
Settling rate  
Suspension  
Traction  
Wave drift velocity

**Particle scattering**  
SN: Scattering of light in water by suspended particles  
BT: Light scattering  
RT: Particle concentration  
Particle distribution  
Particle size  
Suspended particulate matter

**Particle settling**  
BT: Particle motion  
RT: Particulate flux  
Settling rate  
Stokes law  
Winnowing

**Particle size**  
BT: Size  
RT: Kurtosis

Particle scattering  
Turbidity

Particle velocity (waves)  
USE: **Orbital velocity**

**Particulate flux**  
SN: Vertical flux of particulates in water column  
RT: Particle motion  
Particle settling  
Sediment traps  
Settling rate  
Suspended particulate matter

Particulate matter  
USE: **Suspended particulate matter**

Particulate matter (air)  
USE: **Atmospheric particulates**

**Particulate organic carbon**  
BT: Organic carbon  
Particulate organic matter

**Particulate organic matter**  
BT: Organic matter  
Particulates  
NT: Particulate organic carbon  
Particulate organic nitrogen  
Particulate organic phosphorus

**Particulate organic nitrogen**  
BT: Organic nitrogen  
Particulate organic matter

**Particulate organic phosphorus**  
BT: Organic phosphorus  
Particulate organic matter

**Particulates**  
NT: Atmospheric particulates  
Particulate organic matter  
Suspended particulate matter

Particulates (aquatic)  
USE: **Suspended particulate matter**

Particulates (atmospheric)  
USE: **Atmospheric particulates**

**Parturition**  
UF: Birth  
BT: Sexual reproduction  
RT: Foetus  
Pregnancy

**Passenger ships**  
UF: Ferries  
Liners (passengers)

BT: Merchant ships

**Passive margins**  
UF: Aseismic margins  
Divergent margins  
BT: Continental margins  
RT: Plate divergence

**Passive sonar**  
BT: Sonar  
RT: Ambient noise  
Sonobuoys

**Patchiness**

**Patents**  
SN: Patent of new equipment and apparatus  
RT: Documents

Pathogen resistance  
USE: **Disease resistance**

**Pathogenic bacteria**  
BT: Bacteria  
Pathogens  
RT: Bacterial diseases

Pathogenic species  
USE: **Pathogens**

**Pathogens**  
UF: Pathogenic species  
NT: Pathogenic bacteria  
RT: Bacterins  
Disease control  
Diseases  
Disinfection  
Microbial contamination

**Pathology**  
UF: Animal pathology  
Fish pathology  
NT: Histopathology  
RT: Diseases  
Epidemics  
Parasitism  
Physiology  
Therapy  
Toxicity

**Pattern recognition**  
RT: Image enhancement

**PCB**  
SN: Before 1982 search also  
POLYCHLORINATED  
BIPHENYLS

(cont'd)

## ASFA THESAURUS

### *PCB (cont'd)*

UF: Polychlorinated biphenyls  
BT: Aromatic hydrocarbons  
RT: Chemical pollutants  
Insecticides  
Toxicants

### PCR

USE: **Polymerase chain reaction**

### Pearl culture

BT: Oyster culture  
RT: Pearl fisheries  
Pearl oysters  
Pearls

### Pearl fisheries

BT: Oyster fisheries  
RT: Fishing by diving  
Pearl culture  
Pearl oysters  
Pearls

### Pearl oysters

RT: Pearl culture  
Pearl fisheries  
Pearls

### Pearls

SN: Including their formation by natural or artificial biosynthetic processes  
BT: Animal products  
RT: Biosynthesis  
Pearl culture  
Pearl fisheries  
Pearl oysters

### Peat

SN: Remains of bog and fen vegetation  
BT: Organic sediments  
RT: Humus  
Sapropels

### Pebbles

BT: Clastics  
RT: Rudites  
Shingle

### Pecking order

SN: Social hierarchy occurring in many animals that live together in groups  
BT: Dominance hierarchies  
RT: Aggressive behaviour

### Pecten fisheries

USE: **Scallop fisheries**

### Peduncle disease

UF: Cold water diseases

BT: Fish diseases  
RT: Bacterial diseases

### Pelage

USE: **Hair**

### Pelagic clay

UF: Red clay  
BT: Clays  
RT: Pelagic sediments

### Pelagic deposits

USE: **Pelagic sediments**

### Pelagic environment

UF: Pelagic regions  
BT: Aquatic environment  
NT: Neritic province  
Oceanic province  
RT: Abyssal zone  
Bathyal zone  
Bathypelagic zone  
Lenitic environment  
Marine environment  
Pelagic sedimentation

### Pelagic fisheries

BT: Marine fisheries  
RT: Finfish fisheries  
Krill fisheries  
Longlining  
Trawlers  
Tuna fisheries

### Pelagic regions

USE: **Pelagic environment**

### Pelagic sedimentation

BT: Sedimentation  
RT: Pelagic environment  
Pelagic sediments

### Pelagic sediments

UF: Pelagic deposits  
BT: Sediments  
RT: Carbonate sediments  
Chemical sediments  
Pelagic clay  
Pelagic sedimentation  
Radiolarite  
Siliceous sediments

### Pellet feeds

UF: Pelleted foods  
BT: Feed

### Pelleted foods

USE: **Pellet feeds**

### Pen culture

USE: **Cage culture**

### Penaeid shrimp fisheries

USE: **Shrimp fisheries**

### Penetration depth

RT: Penetrometers  
Sediment properties  
Soil mechanics

### Penetrometers

BT: Measuring devices  
RT: Corers  
Geological equipment  
Penetration depth  
Seafloor sampling  
Sediment sampling

### Peptide synthesis

USE: **Protein synthesis**

### Peptides

BT: Proteins  
NT: Polypeptides  
RT: Amino acids

### Peptization

USE: **Deflocculation**

### Peptones

SN: Before 1982 search PROTEINS  
BT: Proteins

### Percoid fisheries

SN: Exclude carangid fisheries  
UF: Croaker fisheries  
Grouper fisheries  
Seabream fisheries  
Snapper fisheries  
BT: Finfish fisheries  
RT: Carangid fisheries  
Coastal fisheries  
Reef fisheries

### Percolation

BT: Fluid flow  
RT: Ground water  
Leaching  
Porosity  
Seepages  
Voids

### Perforated structures

BT: Structures  
RT: Offshore structures

### Performance assessment

BT: Evaluation  
RT: Acceptability  
Certification  
Efficiency  
Intercalibration  
Intercomparison

(cont'd)

## ASFA THESAURUS

### *Performance assessment (cont'd)*

Quality control  
Reliability  
Specifications  
Testing

### **Peridotite**

BT: Ultramafic rocks  
RT: Kimberlites

### **Periodic variations**

BT: Temporal variations  
NT: Annual variations  
Diurnal variations  
Seasonal variations  
RT: Cyclic loading  
Long-term changes  
Periodicity

### **Periodicity**

UF: Frequency (time)  
NT: Annual  
Biennial  
Daily  
Hourly  
Monthly  
Seasonality  
Weekly  
RT: Frequency  
Periodic variations

### Peripheral nerves

USE: **Nerves**

### **Peripheral nervous system**

UF: PNS  
BT: Nervous system  
NT: Nerves  
RT: Sense organs

### **Periphyton**

SN: Assemblage of organisms on submerged objects  
BT: Aquatic communities  
RT: Epiphytes

### Peritoneum

USE: **Abdomen**

### **Permafrost**

UF: Submarine permafrost  
RT: Arctic zone  
Cryosphere  
Land ice

### **Permanence**

RT: Fate  
Persistence

### Permanent plankton

USE: **Holoplankton**

### **Permanent thermocline**

BT: Thermocline  
RT: Upper ocean

### **Permeability**

UF: Sediment permeability  
BT: Physical properties  
RT: Capillarity  
Diffusion  
Electrical resistivity  
Grain size  
Leaching  
Osmosis  
Porosity  
Void ratio  
Voids

### Permeases

USE: **Enzymes**

### **Permian**

SN: Before 1982 search PERMIAN  
SYSTEM  
BT: Palaeozoic

### **Permits**

SN: Including statistics relating to fisheries licences and licence fees  
BT: Licences  
RT: Quota regulations  
Season regulations

### **Persistence**

NT: Pollutant persistence  
RT: Fate  
Permanence

### **Personal bibliographies**

SN: Bibliographies of individual workers  
BT: Bibliographies

### **Personnel**

SN: Before 1982 search SCIENTIFIC PERSONNEL  
UF: Employees  
Staff (personnel)  
Workers  
NT: Consultants  
Contractors  
Crew  
Experts  
Scientific personnel  
RT: Careers  
Human resources  
Labour  
Management  
Organizations

### **PERT**

UF: Programme evaluation

### Project evaluation

BT: Operations research  
RT: Critical path method  
Management  
Numerical analysis

### **Perturbation method**

BT: Numerical analysis  
RT: Perturbations

### **Perturbations**

NT: Tidal perturbation  
RT: Oscillations  
Perturbation method  
Steady state

### **Pest control**

BT: Control  
RT: Biological control  
Chemical control  
Disease control  
Infestation  
Parasite control  
Pesticides  
Plant control  
Repellents

### **Pesticides**

SN: Different chlorinated hydrocarbon products  
UF: Biocides  
NT: Algicides  
Antihelminthic agents  
Antiparasitic agents  
Bacteriocides  
Fungicides  
Herbicides  
Ichthyocides  
Insecticides  
Molluscicides  
RT: Chemical pollutants  
Chlorinated hydrocarbons  
DDT  
Disinfectants  
Hazardous materials  
Infestation  
Lethal limits  
Pest control  
Repellents  
Toxicants

### **Petrogenesis**

SN: Formation of rocks  
RT: Petrology  
Rocks

### Petrography

USE: **Petrology**

## ASFA THESAURUS

### **Petroleum**

UF: Mineral oils  
 BT: Fossil fuels  
 NT: Crude oil  
   Gas condensates  
   Petroleum residues  
 RT: Hydrocarbon analysis  
   Liquefied petroleum gas  
   Natural gas  
   Oil  
   Oil and gas fields  
   Oil and gas industry  
   Oil wells  
   Oil-gas interface  
   Oil-water interface  
   Organic sediments  
   Petroleum engineering  
   Petroleum geology  
   Petroleum hydrocarbons  
   Waxes

### **Petroleum engineering**

BT: Engineering  
 RT: Chemical engineering  
   Offshore engineering  
   Petroleum

### **Petroleum geology**

BT: Geology  
 RT: Oil and gas exploration  
   Oil reservoirs  
   Petroleum

Petroleum hydrocarbon residues  
 USE: **Petroleum residues**

### **Petroleum hydrocarbons**

BT: Hydrocarbons  
 NT: Asphalt  
   Bitumens  
   Kerogen  
   Tar  
   Volatile hydrocarbons  
 RT: Petroleum

Petroleum industry  
 USE: **Oil and gas industry**

### **Petroleum residues**

UF: Petroleum hydrocarbon residues  
 BT: Petroleum  
 RT: Asphalt  
   Bitumens  
   Oil sands  
   Oil shale  
   Tar  
   Tar balls

### **Petrology**

UF: Petrography  
   Sedimentary petrography

BT: Geology  
 RT: Geochemistry  
   Lithology  
   Petrogenesis  
   Rocks  
   Sediments

### **pH**

UF: Hydrogen ion concentration  
 BT: Chemical properties  
 RT: Acidification  
   Acidity  
   Alkalinity  
   Buffers  
   Hydrogen  
   pH effects  
   pH sensors  
   Water properties

### **pH effects**

BT: Environmental effects  
 RT: Acidity  
   Alkalinity  
   pH

### **pH sensors**

BT: Sensors  
 RT: pH

### **Phagocytosis**

BT: Defence mechanisms  
 RT: Amoebocytes  
   Cells  
   Endoparasites  
   Endoparasitism  
   Macrophages

### **Phanerozoic**

SN: Before 1982 search  
   PHANEROZOIC EON  
 BT: Geological time  
 RT: Cenozoic  
   Mesozoic  
   Palaeozoic

Pharmaceutical products  
 USE: **Drugs**

### **Pharmacodynamics**

USE: **Pharmacology**

### **Pharmacology**

UF: Pharmacodynamics  
 RT: Biochemistry  
   Drugs  
   Medicine  
   Microbiology  
   Therapy  
   Toxicology

### **Phase changes**

UF: Changes of state

Phase transformations  
 NT: Condensation  
   Fluidization  
   Freezing  
   Melting  
   Solidification  
   Vaporization  
 RT: Heat transfer  
   Thermodynamics  
   Transition temperatures

Phase transformations  
 USE: **Phase changes**

### **Phase velocity**

BT: Velocity  
 RT: Group velocity  
   Water waves  
   Wave dispersion  
   Wave velocity

### **Phenology**

RT: Behaviour  
   Biological rhythms  
   Breeding  
   Climate  
   Climatology  
   Ecology  
   Migrations  
   Photoperiodicity  
   Seasonal variations  
   Temporal variations

### **Phenols**

BT: Aromatics  
 RT: Chemical pollutants  
   Industrial wastes  
   Toxicants

Phenomena (biological)  
 USE: **Biological phenomena**

### **Phenotypes**

RT: Ecophene  
   Environmental effects  
   Genotypes  
   Organism morphology  
   Phenotypic variations  
   Typology

### **Phenotypic variations**

UF: Variations (phenotypic)  
 RT: Environmental effects  
   Phenotypes

### **Phenylalanine**

BT: Amino acids

### **Pheromones**

BT: Hormones

## ASFA THESAURUS

### **Phillipsite**

BT: Zeolites

Phonoreceptors

USE: **Auditory organs**

### **Phosphatase**

BT: Enzymes

Phosphate cycle

USE: **Phosphorus cycle**

### **Phosphate deposits**

SN: Use only for deposits of economic value

BT: Chemical sediments

Subsurface deposits

RT: Authigenic minerals

Guano

Phosphate rocks

Phosphates

Phosphorite nodules

### **Phosphate minerals**

BT: Minerals

NT: Apatite

Francolite

Monazite

RT: Phosphate rocks

Phosphates

Phosphorite nodules

### **Phosphate rocks**

BT: Rocks

RT: Phosphate deposits

Phosphate minerals

Phosphates

Phosphorite

Sedimentary rocks

### **Phosphates**

BT: Phosphorus compounds

NT: ADP

AMP

ATP

Calcium phosphates

Iron phosphates

Orthophosphate

RT: Non-conservative properties

Nutrients (mineral)

Phosphate deposits

Phosphate minerals

Phosphate rocks

Phosphatization

Phosphoric acid

Phosphorus cycle

Salts

Phosphatic concretions

USE: **Phosphorite nodules**

### **Phosphatization**

RT: Phosphates

Phospholipids

USE: **Complex lipids**

### **Phosphorescence**

UF: Phosphorescent wheels

BT: Luminescence

RT: Biological properties

Bioluminescence

Chemiluminescence

Fluorescence

Phosphorescent wheels

USE: **Phosphorescence**

### **Phosphoric acid**

SN: Before 1982 search also

INORGANIC ACIDS

BT: Inorganic acids

RT: Phosphates

### **Phosphorite**

RT: Authigenic minerals

Phosphate rocks

Phosphorite nodules

Phosphorite concretions

USE: **Phosphorite nodules**

### **Phosphorite nodules**

UF: Phosphatic concretions

Phosphorite concretions

BT: Nodules

Seabed deposits

RT: Phosphate deposits

Phosphate minerals

Phosphorite

### **Phosphorus**

BT: Nonmetals

NT: Organic phosphorus

RT: Phosphorus compounds

Phosphorus cycle

Phosphorus isotopes

### **Phosphorus compounds**

BT: Chemical compounds

NT: Phosphates

RT: Chemical fertilizers

Organic compounds

Phosphorus

Phosphorus cycle

### **Phosphorus cycle**

UF: Phosphate cycle

BT: Nutrient cycles

RT: Phosphates

Phosphorus

Phosphorus compounds

### **Phosphorus isotopes**

BT: Isotopes

RT: Phosphorus

Photoc environment

USE: **Epipelagic zone**

### **Photochemical reactions**

UF: Photoionization

Photoreduction

BT: Chemical reactions

NT: Photolysis

Photosynthesis

RT: Photochemistry

### **Photochemistry**

BT: Chemistry

RT: Photochemical reactions

Photolysis

Photosynthesis

Photogenic organs

USE: **Photophores**

### **Photogrammetry**

UF: Photographic measurement

BT: Measurement

RT: Cartography

Current measurement

Photography

Surveying underwater

Wave measurement

### **Photographic equipment**

BT: Equipment

NT: Cameras

RT: Photographs

Photography

Remote sensing equipment

Surveying equipment

Photographic measurement

USE: **Photogrammetry**

Photographic techniques

USE: **Photography**

### **Photographs**

BT: Audiovisual materials

NT: Aerial photographs

Underwater photographs

RT: Photographic equipment

Photography

### **Photography**

UF: Photographic techniques

BT: Imagery

NT: Aerial photography

Microphotography

Stereophotography

Underwater photography

(cont'd)



## ASFA THESAURUS

### *Photography (cont'd)*

RT: Cameras  
Films  
Holography  
Optics  
Photogrammetry  
Photographic equipment  
Photographs  
Radiography

### Photoionization

USE: **Photochemical reactions**

### Photolysis

BT: Photochemical reactions  
RT: Photochemistry

### Photometers

UF: Hydrophotometers  
BT: Light measuring instruments  
NT: Spectrophotometers  
RT: Nephelometers  
Photometry  
Radiometers

### Photometry

BT: Light measurement  
RT: Colorimetric techniques  
Light intensity  
Photometers  
Quanta meters  
Spectroscopic techniques

### Photoperiod effects

USE: **Light effects**

### Photoperiodicity

UF: Photoperiodism  
RT: Biological rhythms  
Breeding  
Diapause  
Diurnal variations  
Ecology  
Light  
Light effects  
Light stimuli  
Migrations  
Phenology  
Photoperiods

### Photoperiodism

USE: **Photoperiodicity**

### Photoperiods

SN: Before 1982 search  
PHOTOPERIODICITY  
UF: Day length  
Light duration  
RT: Circadian rhythms  
Diurnal variations  
Ecophysiology

### Light effects

Photoperiodicity

### Photophelein

USE: **Luciferin**

### Photophores

UF: Luminescent organs  
Luminous organs  
Photogenic organs  
BT: Animal organs  
RT: Bioluminescence  
Light organs  
Luminous organisms

### Photopolymerization

USE: **Polymerization**

### Photoreception

BT: Sense functions  
RT: Light stimuli  
Vision

### Photoreceptors

BT: Sense organs  
NT: Eyes  
RT: Light  
Vision

### Photoreduction

USE: **Photochemical reactions**

### Photosynthesis

BT: Photochemical reactions  
NT: Carbon fixation  
RT: Biogeochemical cycle  
Biosynthesis  
Carbon dioxide  
Carotenoids  
Chemical reactions  
Chemosynthesis  
Compensation depth  
Leaves  
Light stimuli  
Oxygen demand  
Photochemistry  
Photosynthetic pigments  
Photosystem I  
Photosystem II  
Phytobenthos  
Phytoplankton  
Plant metabolism  
Plant nutrition  
Plant physiology  
Primary production  
Solar radiation  
Transpiration  
Xanthophylls

### Photosynthetic pigments

BT: Pigments  
NT: Chlorophylls

### Xanthophylls

RT: Carotenoids  
Chloroplasts  
Photosynthesis

### Photosynthetic zone

USE: **Euphotic zone**

### Photosystem I

RT: Photosynthesis  
Photosystem II

### Photosystem II

RT: Photosynthesis  
Photosystem I

### Phototaxis

BT: Taxis  
RT: Light  
Light effects  
Light penetration  
Light stimuli  
Nyctimeral rhythms  
Phototropism  
Solar radiation  
Vertical migrations

### Phototropism

UF: Thermophototropism  
BT: Tropism  
RT: Circadian rhythms  
Light  
Light effects  
Light penetration  
Light stimuli  
Nyctimeral rhythms  
Phototaxis  
Solar radiation  
Vertical migrations

### Phreatic water

USE: **Ground water**

### Phthalate esters

UF: Phthalic acid esters  
BT: Esters  
RT: Chemical pollutants

### Phthalic acid esters

USE: **Phthalate esters**

### Phycologists

USE: **Algologists**

### Phycology

USE: **Algology**

### Phyllosomae

BT: Crustacean larvae

## ASFA THESAURUS

### Phylogenetics

SN: The study of evolutionary relationships  
RT: Biological speciation  
Evolution  
Phylogeny  
Taxonomy

### Phylogeny

BT: Biogeny  
RT: Biological speciation  
Biosselection  
Ontogeny  
Phylogenetics  
Taxonomy

### Physical limnology

SN: Before 1982 search  
LIMNOLOGY (PHYSICAL)  
UF: Limnology (physical)  
BT: Limnology  
RT: Hydrodynamics  
Lake dynamics  
Physical oceanography  
Physics  
Thermal stratification  
Water analysis  
Water circulation  
Water currents  
Water properties  
Water temperature  
Water waves

Physical models

USE: **Scale models**

### Physical oceanography

UF: Marine physics  
BT: Oceanography  
NT: Hydrography  
RT: Hydrodynamics  
Physical limnology  
Physics  
Thermal stratification  
Water analysis  
Water circulation  
Water currents  
Water properties  
Water temperature  
Water waves

### Physical properties

BT: Properties  
NT: Acoustic properties  
Anisotropy  
Buoyancy  
Density  
Electrical properties  
Geothermal properties  
Magnetic properties  
Mass  
Mechanical properties

Optical properties  
Permeability  
Porosity  
Pressure  
Specific gravity  
Thermodynamic properties  
Turbidity  
Water hardness  
Weight  
RT: Chemical properties  
Physicochemical properties  
Sediment properties  
Surface properties  
Water properties  
Wave properties

### Physicochemical properties

BT: Properties  
RT: Biological properties  
Chemical properties  
Physical properties  
Water properties

### Physics

NT: Acoustics  
Atmospheric physics  
Biophysics  
Mechanics  
Nuclear physics  
Optics  
Thermodynamics  
RT: Physical limnology  
Physical oceanography

Physiochemistry

USE: **Biochemistry**

Physiographic features

USE: **Topographic features**

### Physiographic provinces

RT: Bottom topography  
Landforms  
Topographic features

Physiography

USE: **Geomorphology**

Physiological adaptations

USE: **Acclimatization**

Physiological calcification

USE: **Calcification**

Physiological ecology

USE: **Ecophysiology**

### Physiology

BT: Biology  
NT: Animal physiology  
Diving physiology  
Ecophysiology

Electrophysiology  
Endocrinology  
Human physiology  
Neurophysiology  
Plant physiology  
RT: Anatomy  
Biochemistry  
Biophysics  
Cryobiology  
Digestion  
Hormones  
Metabolism  
Nutrition  
Pathology  
Synergism

Physiology (animal)

USE: **Animal physiology**

Physiology (aquatic mammals)

USE: **Mammalian physiology**

Physiology (fish)

USE: **Fish physiology**

Physiology (plants)

USE: **Plant physiology**

### Phytobenthos

UF: Benthic algae  
Benthic flora  
BT: Benthos  
RT: Algology  
Aquatic plants  
Photosynthesis  
Primary production

Phytogeography

USE: **Biogeography**

### Phytohormones

SN: Before 1982 search  
HORMONES  
UF: Cytokinins  
Gibberellins  
Plant hormones  
BT: Hormones  
RT: Aquatic plants  
Auxins  
Plant physiology

Phytology

USE: **Botany**

Phytophagous fishes

USE: **Herbivorous fish**

### Phytoplankton

UF: Planktonic algae  
BT: Plankton  
RT: Algal blooms

(cont'd)

## ASFA THESAURUS

### *Phytoplankton (cont'd)*

- Algology
- Aquatic plants
- Botany
- Food organisms
- Photosynthesis
- Phytoplankton culture
- Primary production
- Red tides

### **Phytoplankton culture**

- UF: Diatom culture
- Single cell culture
- BT: Algal culture
- RT: Cell culture
- Continuous culture
- Cultured organisms
- Mass culture
- Phytoplankton
- Plant culture

### **Phytosociology**

- UF: Plant sociology
- BT: Ecology
- RT: Aquatic plants
- Biogeography
- Botany

### **Picoplankton**

- BT: Plankton

### **Piers**

- BT: Coastal structures

### **Piezoelectric transducers**

- BT: Transducers
- RT: Acoustic transducers
- Hydrophones

### **Pigging**

- RT: Cleaning
- Pipeline pigs

### **Pigments**

- BT: Glycosides
- NT: Chromatic pigments
- Photosynthetic pigments
- Respiratory pigments
- Visual pigments
- RT: Discolouration
- Dyes
- Porphyrins

Pigs (pipeline)

USE: **Pipeline pigs**

Pilchard fisheries

USE: **Clupeoid fisheries**

### **Pile driving**

- RT: Bearing capacity
- Piles

### **Piled platforms**

- UF: Jackets
- BT: Fixed platforms
- RT: Guyed towers

### **Piles**

- SN: Before 1986 search also PILES (FOUNDATIONS) and PILING
- UF: Piles (foundations)
- Piling
- BT: Foundations
- RT: Pile driving

Piles (foundations)

USE: **Piles**

Piling

USE: **Piles**

### **Pillow lava**

- BT: Lava
- RT: Palagonite
- Pillow structures

### **Pillow structures**

- BT: Sedimentary structures
- RT: Pillow lava

Pilot charts

USE: **Navigational charts**

Pilot-scale culture

USE: **Experimental culture**

Pineal gland

USE: **Pineal organ**

### **Pineal organ**

- UF: Pineal gland
- BT: Brain
- RT: Neurosecretion
- Neurosecretory system

### **Pingers**

- UF: Acoustic pingers
- BT: Sound generators
- RT: Electroacoustic devices
- Swallow floats

### **Pipe buckling**

- UF: Buckling (pipe)
- RT: Deformation
- Pipelines
- Pipes

### **Pipe laying**

- SN: Pipeline construction from barges
- BT: Pipeline construction
- RT: Pipelines
- Pipes

### **Pipe stringers**

- UF: Stringers
- RT: Pipelaying barges

### **Pipelaying barges**

- BT: Barges
- RT: Pipe stringers

### **Pipeline construction**

- BT: Construction
- NT: Bottom tow
- Pipe laying
- RT: Anchoring
- Burying
- Connecting
- Pipeline crossing
- Pipelines
- Trenching
- Welding

### **Pipeline crossing**

- RT: Pipeline construction
- Pipelines

### **Pipeline pigs**

- UF: Pigs (pipeline)
- RT: Pigging

### **Pipeline protection**

- BT: Erosion control
- RT: Burying
- Pipelines
- Scour protection

Pipeline pumping stations

USE: **Pump stations**

### **Pipelines**

- UF: Submarine pipelines
- BT: Underwater structures
- NT: Flowlines
- Gathering lines
- RT: Gas terminals
- Pipe buckling
- Pipe laying
- Pipeline construction
- Pipeline crossing
- Pipeline protection
- Pump stations
- Trenches (pipelines)

### **Pipes**

- SN: Before 1986 search also PIPE
- UF: Line pipe
- NT: Riser pipes
- RT: Hoses
- Pipe buckling
- Pipe laying
- Tubing

Piscicides

USE: **Ichthyocides**

## ASFA THESAURUS

Pisciculture

USE: **Fish culture**

Piscine erythrocyte necrosis

USE: **Necroses**

### **Piston corers**

SN: Before 1986 use also PISTON

SAMPLERS

UF: Piston samplers

BT: Corers

Piston samplers

USE: **Piston corers**

Pitch (mineral)

USE: **Bitumens**

### **Pitch response**

BT: Dynamic response

RT: Buoy motion effects

Pitching

### **Pitching**

BT: Ship motion

RT: Buoy motion effects

Pitch response

### **Pits**

UF: Gravel pits

Open mines

Quarries

Sand pits

RT: Strip mine lakes

Pitting

USE: **Corrosion**

### **Pituitary gland**

UF: Hypophysis

BT: Endocrine glands

RT: Hypophysectomy

### **Placenta**

RT: Foetus

Pregnancy

Placer deposits

USE: **Placers**

### **Placer mining**

BT: Mining

RT: Mineral deposits

Mineral exploration

Placers

### **Placers**

UF: Placer deposits

BT: Seabed deposits

NT: Diamonds

RT: Arenites

Barite

Cassiterite

Chromite

Garnet

Gold

Ilmenite

Magnetite

Monazite

Placer mining

Platinum

Rutile

Zircon

### **Plagioclase**

BT: Feldspars

Plaice fisheries

USE: **Flatfish fisheries**

### **Plains**

BT: Landforms

RT: Abyssal plains

Flood plains

Planation surfaces

USE: **Erosion surfaces**

### **Planetary atmospheres**

UF: Atmosphere (planetary)

NT: Earth atmosphere

RT: Atmosphere evolution

Planetary boundary layer

USE: **Atmospheric boundary layer**

### **Planetary vorticity**

BT: Vorticity

RT: Coriolis parameters

Westward intensification

### **Planetary waves**

UF: Quasi-geostrophic waves

Rossby waves

Topographic planetary waves

Waves (planetary)

RT: Atmospheric motion

Equatorial dynamics

Fluid motion

Jet stream

Rossby parameter

Water motion

Water waves

### **Planetary winds**

UF: Zonal wind systems

BT: Winds

NT: Monsoons

Trade winds

Westerlies

Planktivores

USE: **Plankton feeders**

### **Plankton**

BT: Aquatic communities

NT: Cryoplankton

Nannoplankton

Phytoplankton

Picoplankton

Zooplankton

RT: Luminous organisms

Plankton collecting devices

Plankton equivalents

Plankton feeders

Plankton surveys

Planktonology

Seston

Plankton blooms

USE: **Algal blooms**

### **Plankton collecting devices**

UF: Plankton nets

BT: Collecting devices

RT: Fishing nets

Neuston

Plankton

Plankton surveys

Plankton entrainment

USE: **Entrainment**

### **Plankton equivalents**

BT: Population factors

RT: Biological production

Biomass

Plankton

### **Plankton feeders**

UF: Planktivores

BT: Heterotrophic organisms

RT: Carnivores

Filter feeders

Plankton

Plankton nets

USE: **Plankton collecting devices**

Plankton studies

USE: **Planktonology**

### **Plankton surveys**

BT: Biological surveys

NT: Ichthyoplankton surveys

RT: Plankton

Plankton collecting devices

Planktonology

Planktonic algae

USE: **Phytoplankton**

## ASFA THESAURUS

### Planktonology

UF: Plankton studies  
BT: Ecology  
RT: Marine sciences  
Plankton  
Plankton surveys

### Planning

UF: Programming  
NT: Long-term planning  
National planning  
Regional planning  
Short-term planning  
RT: Management  
Methodology  
Operations research  
Procedures  
Programmes

Planning (national)

USE: **National planning**

Plant (equipment)

USE: **Equipment**

### Plant control

SN: Chemical, biological and mechanical control of aquatic weeds and injurious algae  
UF: Aquatic weed control  
Vegetation control  
Weed cutting  
BT: Control  
RT: Biological control  
Chemical control  
Herbicides  
Herbivorous fish  
Pest control  
Plant diseases  
Plant utilization  
Vegetation cover  
Weeds

### Plant culture

SN: Applies only to culture of aquatic macrophytes  
UF: Aquatic plant culture  
BT: Cultures  
NT: Seaweed culture  
RT: Agropisciculture  
Aquatic plants  
Botany  
Phytoplankton culture

### Plant diseases

BT: Diseases  
RT: Parasitic diseases  
Plant control  
Plant physiology

Plant fossils

USE: **Vegetal fossils**

### Plant growth

BT: Growth  
RT: Growth rings  
Vegetation cover

Plant hormones

USE: **Phytohormones**

### Plant metabolism

SN: Before 1982 search  
METABOLISM  
BT: Metabolism  
RT: Photosynthesis  
Plant physiology

### Plant morphology

SN: Before 1982 search  
MORPHOLOGY  
(ORGANISMS)  
UF: Morphology (plant)  
BT: Organism morphology  
RT: Plant organs  
Plant physiology

### Plant nutrition

BT: Nutrition  
RT: Autotrophy  
Photosynthesis  
Plant physiology

### Plant organs

UF: Organs (plant)  
BT: Body organs  
NT: Holdfasts  
Leaves  
Plant reproductive structures  
Rhizomes  
Roots  
Shoots  
Stems  
Thallus  
RT: Buds  
Plant morphology  
Plant physiology  
Tissues

### Plant physiology

SN: Before 1982 search  
PHYSIOLOGY  
UF: Physiology (plants)  
BT: Physiology  
RT: Aestivation  
Algology  
Auxins  
Botany  
Photosynthesis  
Phytohormones  
Plant diseases  
Plant metabolism  
Plant morphology  
Plant nutrition

Plant organs

Stomata

### Plant populations

UF: Populations (plants)  
BT: Natural populations

### Plant reproductive structures

UF: Reproductive structures (plant)  
BT: Plant organs  
NT: Turions  
RT: Asexual reproduction  
Pollen  
Pollination  
Rhizomes  
Vegetative reproduction

Plant resources

USE: **Botanical resources**

Plant sociology

USE: **Phytosociology**

### Plant utilization

UF: Aquatic plant utilization  
Aquatic weed utilization  
Water weed utilization  
BT: Utilization  
RT: Aquatic plants  
Plant control  
Shading

Plants

USE: **Flora**

Plants (aquatic)

USE: **Aquatic plants**

Plasma (blood)

USE: **Blood**

Plasma membranes

USE: **Cell membranes**

Plasmalemma

USE: **Cell membranes**

### Plasmids

### Plastic coatings

BT: Coating materials  
RT: Epoxy resins  
Plastics

### Plastic debris

BT: Solid impurities  
RT: Litter  
Plastics

## ASFA THESAURUS

### **Plastic flow**

RT: Deformation  
Plasticity  
Rheology

### **Plastic materials**

USE: **Plastics**

### **Plasticity**

RT: Compressibility  
Deformation  
Elasticity  
Plastic flow

### **Plastics**

UF: Plastic materials  
BT: Materials  
NT: Acrylics  
Glass-reinforced plastics  
RT: Plastic coatings  
Plastic debris  
Synthetic fibres

### **Plastids**

RT: Cytoplasm

### **Plate boundaries**

NT: Converging plate boundaries  
Diverging plate boundaries  
Transform plate boundaries  
RT: Active margins  
Boundaries  
Plate margins  
Plate tectonics  
Plates  
Submarine volcanoes  
Triple junctions  
Volcanism

### **Plate convergence**

BT: Convergence  
RT: Active margins  
Converging plate boundaries  
Island arcs  
Oceanic trenches  
Plate divergence  
Plate motion  
Plate tectonics  
Subduction zones

### **Plate divergence**

BT: Divergence  
RT: Crustal accretion  
Diverging plate boundaries  
Mantle plumes  
Median valleys  
Mid-ocean ridges  
Passive margins  
Plate convergence  
Plate motion  
Rift zones

### **Rifting**

Spreading centres

### **Plate margins**

UF: Margins (plate)  
RT: Active margins  
Plate boundaries  
Plates

### **Plate motion**

RT: Plate convergence  
Plate divergence  
Plate tectonics  
Plates  
Rotation

### **Plate tectonics**

UF: Global tectonics  
BT: Tectonics  
RT: Asthenosphere  
Benioff zone  
Continental drift  
Crustal adjustment  
Fracture zones  
Hot spots  
Lithosphere  
Mantle convection  
Mantle plumes  
Moho  
Obduction  
Orogeny  
Palaeomagnetism  
Plate boundaries  
Plate convergence  
Plate motion  
Plates  
Polar wandering  
Rotation  
Seafloor spreading  
Spreading centres  
Subduction  
Subduction zones  
Transform faults

### **Plateaux**

BT: Landforms  
NT: Submarine plateaux

### **Plates**

UF: Lithospheric plates  
Tectonic plates  
BT: Earth structure  
RT: Lithosphere  
Obduction  
Plate boundaries  
Plate margins  
Plate motion  
Plate tectonics  
Subduction  
Subduction zones  
Triple junctions

### **Platforms (geology)**

RT: Cratons

### **Platforms (instrument)**

USE: **Instrument platforms**

### **Platforms (offshore)**

USE: **Offshore structures**

### **Platforms (work)**

USE: **Work platforms**

### **Platinum**

BT: Heavy metals  
Transition elements  
RT: Placers

### **Playas**

SN: Use for continental or inland  
sabkhas  
BT: Sabkhas  
RT: Arid environments  
Lake deposits  
Salt deposits  
Salt lakes

### **Pleistocene**

SN: Before 1982 search  
PLEISTOCENE EPOCH  
UF: Glacial epoch  
BT: Quaternary  
RT: Ice ages  
Interglacial periods  
Plio-pleistocene boundary

### **Pleuston**

SN: Freefloating plants  
BT: Aquatic communities  
RT: Aquatic plants  
Weeds

### **Plio-pleistocene boundary**

RT: Pleistocene  
Pliocene

### **Pliocene**

SN: Before 1982 search  
PLIOCENE EPOCH  
BT: Neogene  
RT: Plio-pleistocene boundary

### **Plotting**

RT: Geographical coordinates  
Mapping

### **Ploughing trenches**

USE: **Trenching**

## ASFA THESAURUS

### Ploughmarks

UF: Iceberg scour marks  
BT: Bed forms  
RT: Glacial erosion  
Glacial features  
Iceberg scouring

### Ploughs

UF: Plows  
RT: Trenching

Plows

USE: **Ploughs**

### Plumbline deflection

BT: Deflection  
RT: Geodesy  
Gravity

### Plumes

SN: Before 1982 search PLUMES (AQUATIC). Use of a more specific term is recommended  
UF: Plumes (aquatic)  
BT: Fluid flow  
NT: Chemical plumes  
Mantle plumes  
River plumes  
Thermal plumes  
RT: Buoyant jets  
Turbulent entrainment

Plumes (aquatic)

USE: **Plumes**

Plumulae

USE: **Feathers**

### Plutonium

BT: Actinides  
Transuranic elements  
RT: Plutonium isotopes  
Radioactivity

### Plutonium isotopes

BT: Isotopes  
RT: Plutonium

### Plutons

BT: Igneous rocks  
RT: Batholiths  
Igneous intrusions

PNS

USE: **Peripheral nervous system**

### Pock marks

BT: Bed forms  
RT: Gas turbation  
Microtopography

Poikilothermic animals

USE: **Poikilothermy**

### Poikilothermy

UF: Cold blooded animals  
Poikilothermic animals  
BT: Biological properties  
RT: Body temperature  
Homoiothermy  
Thermoregulation

Poincare waves

USE: **Tidal waves**

Poiseuille flow

USE: **Laminar flow**

Poison fishing

USE: **Fish poisoning**

Poison tolerance

USE: **Toxicity tolerance**

Poisoning

USE: **Fish poisoning**

### Poisonous fish

BT: Fish  
Poisonous organisms  
RT: Ciguatera  
Ciguatoxin  
Venom apparatus

### Poisonous organisms

BT: Noxious organisms  
NT: Poisonous fish  
RT: Allergic reactions  
Biological poisons  
Red tides

Poisons (biological)

USE: **Biological poisons**

### Poisson's equation

BT: Equations  
RT: Harmonic functions  
Laplace equation

### Poisson's ratio

BT: Ratios  
RT: Compressive strength  
Elastic constants  
Elasticity  
Flexibility  
Strain  
Tensile strength

### Polar air masses

BT: Air masses  
RT: Antarctic front  
Polar meteorology

### Polar convergences

BT: Oceanic convergences  
NT: Antarctic convergence

Polar environment

USE: **Polar zones**

### Polar exploration

BT: Exploration  
RT: Geographical exploration  
Navigation in ice  
Navigation under ice  
Polar zones

Polar front jet stream

USE: **Jet stream**

### Polar fronts

SN: Use only for semi-permanent front separating air masses of tropical and polar origin  
UF: Atmospheric polar fronts  
BT: Atmospheric convergences  
Fronts  
NT: Antarctic front  
RT: Cyclones

### Polar meteorology

BT: Meteorology  
RT: Antarctic front  
Polar air masses  
Polar oceanography  
Polar zones

Polar migration

USE: **Polar wandering**

Polar motion

USE: **Polar wandering**

Polar navigation

USE: **Navigation in ice**

### Polar oceanography

BT: Oceanography  
RT: Polar meteorology  
Polar waters  
Polar zones

### Polar wandering

UF: Polar migration  
Polar motion  
RT: Continental drift  
Earth rotation  
Palaeolatitude  
Palaeomagnetism  
Plate tectonics  
Pole positions  
Rotation

## ASFA THESAURUS

### **Polar waters**

UF: Antarctic waters  
Arctic waters  
RT: Polar oceanography  
Polar zones

### **Polar zones**

UF: Polar environment  
BT: Climatic zones  
NT: Antarctic zone  
Arctic zone  
RT: Polar exploration  
Polar meteorology  
Polar oceanography  
Polar waters

Polarisation

USE: **Polarization**

### **Polarization**

UF: Polarisation  
Polarizing  
RT: Electrolysis  
Electromagnetic radiation  
Light scattering  
Optical properties  
Orientation  
Radiative transfer

Polarizing

USE: **Polarization**

### **Polarography**

BT: Analytical techniques  
RT: Electroanalysis  
Electrolysis  
Redox reactions  
Voltammetry

### **Polders**

RT: Embankments  
Land reclamation  
Sea level

Pole culture

USE: **Off-bottom culture**

### **Pole positions**

RT: Geomagnetic field  
Magnetic reversals  
Palaeomagnetism  
Polar wandering

### **Pole tides**

BT: Tides  
RT: Chandler wobble  
Long-period tides  
Tidal constituents

### **Pole-line fishing**

BT: Line fishing  
RT: Angling

Poleward heat flux

USE: **Heat transport**

### **Policies**

SN: Use of a more specific term is recommended  
UF: Government policy  
Policy (government)  
NT: Fishery policy  
International policy  
Navigation policy  
Ocean policy  
Water policy  
RT: Governments  
Legislation  
Political aspects

Policy (government)

USE: **Policies**

Policy (international)

USE: **International policy**

### **Political aspects**

UF: Political constraints  
RT: Governments  
Legal aspects  
Policies

Political constraints

USE: **Political aspects**

Pollack fisheries

USE: **Gadoid fisheries**

### **Pollen**

RT: Atmospheric particulates  
Fossil pollen  
Palynology  
Plant reproductive structures  
Pollination

Pollen analysis

USE: **Palynology**

### **Pollination**

UF: Cross pollination  
Self pollination  
RT: Plant reproductive structures  
Pollen  
Sexual reproduction

Pollutant detection

USE: **Pollution detection**

### **Pollutant identification**

BT: Identification  
RT: Pollutants  
Toxicity tests  
Water analysis

### **Pollutant persistence**

BT: Persistence  
RT: Pollutants  
Pollution data  
Pollution effects

### **Pollutants**

SN: Harmful substances of chemical, physical or biological origin  
UF: Polluting substances  
NT: Biological pollutants  
Chemical pollutants  
Radioactive pollutants  
Solid impurities  
RT: Body burden  
Flushing time  
Lethal limits  
Mortality causes  
Pollutant identification  
Pollutant persistence  
Pollution  
Toxicology  
Wastes

Polluting substances

USE: **Pollutants**

### **Pollution**

SN: Use of a more specific term is recommended  
UF: Environmental contamination  
Environmental pollution  
NT: Agricultural pollution  
Air pollution  
Chemical pollution  
Microbial contamination  
Oil pollution  
Radioactive contamination  
Sediment pollution  
Thermal pollution  
Water pollution  
RT: Ecological crisis  
Pollutants  
Pollution control  
Pollution convention  
Pollution data  
Pollution detection  
Pollution effects  
Pollution legislation  
Pollution maps  
Pollution monitoring  
Pollution surveys  
Pollution tolerance  
Seepages

Pollution abatement

USE: **Pollution control**

Pollution charts

USE: **Pollution maps**



## ASFA THESAURUS

### **Pollution control**

SN: Control of pollution in aquatic environment only  
 UF: Pollution abatement  
     Pollution prevention  
     Water pollution control  
 BT: Control  
 NT: Containment  
 RT: Environmental protection  
     Pollution  
     Pollution convention  
     Pollution legislation  
     Water pollution treatment  
     Water quality control

Pollution control legislation  
 USE: **Pollution legislation**

### **Pollution convention**

UF: Pollution treaties  
 BT: International agreements  
 RT: Ocean dumping  
     Pollution  
     Pollution control  
     Pollution legislation  
     Pollution monitoring

### **Pollution data**

BT: Data  
 RT: Pollutant persistence  
     Pollution  
     Pollution dispersion  
     Pollution monitoring  
     Pollution surveys

### **Pollution detection**

UF: Pollutant detection  
 BT: Detection  
 RT: Chemical analysis  
     Pollution  
     Pollution legislation  
     Pollution surveys  
     Sediment analysis  
     Water analysis

### **Pollution dispersion**

RT: Pollution data  
     Pollution monitoring  
     Pollution surveys

### **Pollution effects**

SN: Pollution effects on aquatic environment, organisms, fisheries and human health  
 UF: Water pollution effects  
 RT: Anoxic conditions  
     Anthropogenic factors  
     Bioaccumulation  
     Carcinogenesis  
     Environmental impact  
     Eutrophication  
     Lethal effects

Man-induced effects  
 Mortality causes  
 Pollutant persistence  
 Pollution  
 Pollution monitoring  
 Pollution surveys  
 Pollution tolerance  
 Sublethal effects  
 Toxicity

### **Pollution indicators**

BT: Indicators  
 RT: Pollution monitoring

### **Pollution legislation**

UF: Pollution control legislation  
     Pollution regulations  
 BT: Environmental legislation  
 RT: Pollution  
     Pollution control  
     Pollution convention  
     Pollution detection  
     Pollution monitoring

### **Pollution maps**

SN: Before 1982 search  
     POLLUTION CHARTS.  
     Distributional charts of pollutants or polluted areas in aquatic environment  
 UF: Pollution charts  
 BT: Maps  
 RT: Pollution  
     Pollution monitoring  
     Pollution surveys

Pollution measurements  
 USE: **Pollution monitoring**

### **Pollution monitoring**

UF: Pollution measurements  
     Pollution surveillance  
 BT: Environmental monitoring  
 RT: Pollution  
     Pollution convention  
     Pollution data  
     Pollution dispersion  
     Pollution effects  
     Pollution indicators  
     Pollution legislation  
     Pollution maps  
     Pollution surveys

Pollution prevention  
 USE: **Pollution control**

Pollution regulations  
 USE: **Pollution legislation**

Pollution self-control  
 USE: **Self purification**

Pollution surveillance  
 USE: **Pollution monitoring**

### **Pollution surveys**

SN: Surveys of polluted areas of aquatic environment  
 BT: Environmental surveys  
 RT: Pollution  
     Pollution data  
     Pollution detection  
     Pollution dispersion  
     Pollution effects  
     Pollution maps  
     Pollution monitoring

### **Pollution tolerance**

BT: Tolerance  
 RT: Bioaccumulation  
     Pollution  
     Pollution effects  
     Sublethal effects

Pollution treaties  
 USE: **Pollution convention**

### **Polonium**

BT: Nonmetals  
 RT: Polonium isotopes

### **Polonium isotopes**

BT: Isotopes  
 RT: Polonium

Polychlorinated biphenyls  
 USE: **PCB**

Polychloropinene  
 USE: **Ichthyocides**

### **Polyculture**

UF: Composite cultures  
     Mixed species culture  
 BT: Aquaculture techniques  
 RT: Crab culture  
     Fish culture  
     Frog culture  
     Intensive culture  
     Monoculture  
     Pond culture  
     Prawn culture  
     Shrimp culture

Polycyclic hydrocarbons  
 USE: **Aromatic hydrocarbons**

### **Polyhalite**

BT: Sulphate minerals  
 RT: Gypsum

### **Polymerase chain reaction**

UF: PCR

## ASFA THESAURUS

### Polymerization

UF: Copolymerization  
 Photopolymerization  
 BT: Chemical reactions  
 RT: Depolymerization  
 DNA  
 Polymers  
 RNA

### Polymers

RT: Chemical compounds  
 Polymerization

Polymetallic nodules

USE: **Ferromanganese nodules**

Polymetallic sulphide deposits

USE: **Sulphide deposits**

Polymorphism (biological)

USE: **Biopolymorphism**

### Polynyas

UF: Ice clearings  
 RT: Floating ice  
 Ice canopy  
 Leads

### Polypeptides

BT: Peptides

### Polyploids

RT: Chromosomes  
 Genetics

### Polyps

SN: Cylindrical sedentary body  
 form in Hydrozoa and Anthozoa  
 RT: Budding  
 Buds  
 Coral reefs  
 Tentacles

### Polysaccharides

BT: Saccharides  
 NT: Agarose  
 Alginic acid  
 Cellulose  
 Mucopolysaccharides  
 Starch  
 RT: Agar

### Polyspermy

RT: Biological fertilization  
 Sexual cells  
 Sexual reproduction  
 Sperm

### Polyunsaturated fatty acids

BT: Fatty acids  
 NT: Linoleic acid  
 RT: Polyunsaturated hydrocarbons

### Polyunsaturated hydrocarbons

BT: Unsaturated hydrocarbons  
 NT: Squalene  
 Terpenes  
 RT: Polyunsaturated fatty acids

### Pond construction

SN: Referring to design and  
 hydrotechnical characteristics  
 of pond construction mainly for  
 aquaculture

RT: Dams  
 Hydraulic engineering  
 Ponds

### Pond culture

UF: Fish pond culture  
 Static water culture  
 BT: Aquaculture techniques  
 RT: Agropisciculture  
 Crab culture  
 Crayfish culture  
 Crustacean culture  
 Extensive culture  
 Fish culture  
 Fish ponds  
 Frog culture  
 Polyculture  
 Prawn culture  
 Shrimp culture  
 Thermal aquaculture  
 Valliculture

Pond weeds

USE: **Freshwater weeds**

Ponderal index

USE: **Condition factor**

### Ponds

UF: Pools  
 BT: Inland waters  
 NT: Cooling ponds  
 Fish ponds  
 Sewage ponds  
 Temporary ponds  
 RT: Dams  
 Lenitic environment  
 Limnology  
 Pond construction  
 Water reservoirs  
 Water resources

### Pontoons

BT: Floating structures  
 RT: Barges  
 Bridges

Pools

USE: **Ponds**

Popeye

USE: **Exophthalmia**

Population abundance (in number)

USE: **Population number**

Population abundance (in weight)

USE: **Biomass**

### Population characteristics

UF: Population estimates  
 Population parameters  
 NT: Biomass  
 Population density  
 Population number  
 Population structure  
 RT: Natural populations  
 Population dynamics  
 Population factors  
 Population functions  
 Stock assessment

### Population control

SN: Inhibitive action on  
 populations by biological  
 (introduction, exclusion or  
 removal of organisms), chemical  
 or physical means  
 BT: Control  
 RT: Biotic pressure  
 Natural populations

### Population density

UF: Density (population)  
 Density dependent factor  
 Stock density  
 BT: Population characteristics  
 RT: Biomass  
 Biotic pressure  
 Density dependence  
 Population number  
 Quantitative distribution  
 Resource availability  
 Stocking density

### Population dynamics

SN: Studies of changes that take  
 place during the life span of a  
 population  
 UF: Population studies  
 RT: Growth curves  
 Natural populations  
 Population characteristics  
 Population factors  
 Population functions  
 Population structure

Population estimates

USE: **Population characteristics**

## ASFA THESAURUS

### Population factors

- NT: Condition factor
  - Fish conversion factors
  - Length-weight relationships
  - Plankton equivalents
- RT: Natural populations
  - Population characteristics
  - Population dynamics
  - Population functions
  - Population structure

### Population functions

- SN: Including dynamic parameters (rates)
- NT: Growth
  - Mortality
  - Recruitment
- RT: Density dependence
  - Natural populations
  - Population characteristics
  - Population dynamics
  - Population factors
  - Population structure

### Population genetics

- SN: Relative frequency of hereditary characters and alleles in samples of a population or populations of a given species
- BT: Genetics
- RT: Biological speciation
  - Biopolymorphism
  - Genetic drift
  - Isolating mechanisms
  - Natural populations
  - Stock identification
  - Subpopulations
  - Sympatric populations
  - Unit stocks

### Population number

- UF: Population abundance (in number)
  - Population size (in number)
  - Standing crop (in number)
  - Standing stock (in number)
- BT: Population characteristics
- RT: Abundance
  - Biomass
  - Population density
  - Quantitative distribution
  - Resource availability
  - Stock assessment
  - Yield

### Population parameters

USE: **Population characteristics**

### Population pressure

USE: **Biotic pressure**

### Population size (in number)

USE: **Population number**

### Population size (in weight)

USE: **Biomass**

### Population structure

- SN: Composition by size, sex and age groups of a breeding population (exploited or unexploited)
- BT: Population characteristics
- NT: Age composition
  - Sex ratio
  - Size distribution
- RT: Natural populations
  - Population dynamics
  - Population factors
  - Population functions
  - Recruitment
  - Stock assessment
  - Subpopulations

### Population studies

USE: **Population dynamics**

### Populations (animal)

USE: **Animal populations**

### Populations (natural)

USE: **Natural populations**

### Populations (plants)

USE: **Plant populations**

### Porcellanite

BT: Siliceous rocks

### Pore pressure

- UF: Pore water pressure
- BT: Pressure
- RT: Fluidized sediment flow
  - Hydrostatic pressure
  - Pore water
  - Sediment properties
  - Shear strength
  - Water content
  - Wave-induced loading

### Pore water

- SN: Before 1983 search also INTERSTITIAL WATER
- UF: Interstitial water
  - Pore water content
- BT: Water
- RT: Dewatering
  - Fluidized sediment flow
  - Hydrothermal solutions
  - Interstitial environment
  - Pore pressure
  - Pore water samplers
  - Water content

### Pore water content

USE: **Pore water**

### Pore water pressure

USE: **Pore pressure**

### Pore water samplers

- BT: Sediment samplers
- RT: Pore water
  - Water samplers

### Porosity

- BT: Physical properties
- RT: Capillarity
  - Compaction
  - Compressibility
  - Electrical resistivity
  - Grain size
  - Percolation
  - Permeability
  - Texture
  - Void ratio
  - Voids
  - Water content
  - Wet bulk density

### Porphyrins

- BT: Glycosides
- RT: Chlorophylls
  - Pigments

### Port installations

- UF: Docks
  - Harbour installations
  - Harbour structures
  - Jetties
  - Quays
- BT: Coastal structures
- RT: Gas terminals
  - Harbours

### Ports

USE: **Harbours**

### Position fixing

- UF: Fixing position
  - Position fixing systems
- NT: Inertial navigation
  - Radar navigation
  - Radio navigation
  - Satellite navigation
  - Sofar
- RT: Geographical coordinates
  - Locating
  - Navigation
  - Navigational aids
  - Positioning systems

### Position fixing systems

USE: **Position fixing**

## ASFA THESAURUS

Positioning

USE: **Positioning systems**

### **Positioning systems**

SN: Systems for keeping ships, mobile platforms etc. on station relative to a point on the seabed

UF: Positioning

NT: Dynamic positioning

RT: Acoustic beacons

Berthing

Position fixing

Ship mooring systems

Steering systems

Post larvae

USE: **Juveniles**

### **Pot fishing**

BT: Catching methods

RT: Cephalopod fisheries

Pots

### **Potadromous migrations**

BT: Migrations

RT: Anadromous migrations

Catadromous migrations

Freshwater fish

### **Potash deposits**

RT: Subsurface deposits

### **Potassium**

BT: Alkali metals

RT: Potassium compounds

Potassium isotopes

### **Potassium compounds**

BT: Alkali metal compounds

RT: Potassium

### **Potassium isotopes**

BT: Isotopes

RT: Potassium

Potassium-argon dating

### **Potassium-argon dating**

BT: Radiometric dating

RT: Argon isotopes

Potassium isotopes

### **Potential density**

SN: Use for potential density of seawater (sigma-O)

BT: Water density

RT: Adiabatic processes

In situ density

Potential temperature

Salinity

Sigma-T

Vertical stability

### **Potential energy**

UF: Available potential energy

BT: Energy

NT: Dynamic height

RT: Froude number

Kinetic energy

### **Potential flow**

UF: Irrotational flow

BT: Fluid flow

RT: Vorticity

### **Potential resources**

UF: Reserves

BT: Resources

RT: Living resources

Potential yield

Resource development

Unconventional resources

### **Potential temperature**

BT: Temperature

RT: Adiabatic processes

Air temperature

Bottom temperature

Oceanic trenches

Potential density

Vertical stability

Water temperature

### **Potential vorticity**

BT: Vorticity

RT: Baroclinic instability

Barotropic instability

### **Potential yield**

UF: Maximum sustainable yield

Sustainable yield

BT: Yield

RT: Potential resources

Unconventional resources

Potentialities

USE: **Resources**

Potentiometric titration

USE: **Titration**

### **Pots**

UF: Lobster pots

BT: Fishing gear

RT: Pot fishing

Trap nets

Pound nets

USE: **Trap nets**

### **Powdered products**

BT: Processed fishery products

NT: Fish meal

RT: Byproducts

### **Power cables**

BT: Electric cables

### **Power consumption**

RT: Electric power sources

Electricity

### **Power from the sea**

BT: Energy resources

NT: Electromagnetic power

Salinity power

Thermal power

Tidal power

Wave power

RT: Current power

Geothermal power

Renewable resources

Wind power

Power plant entrainment

USE: **Entrainment**

Power plant impingement

USE: **Impingement**

### **Power plants**

UF: Electric power plants

Power stations

NT: Fossil fueled power plants

Hydroelectric power plants

Nuclear power plants

OTEC plants

RT: Cooling ponds

Cooling water

Electric power sources

Turbines

Waste heat

Power spectra

USE: **Energy spectra**

Power stations

USE: **Power plants**

Power supplies

USE: **Electric power sources**

Power systems

USE: **Electric power sources**

### **Practical salinity scale**

SN: World standard for salinity data

BT: Salinity scales

Standards

### **Prandtl number**

RT: Dimensionless numbers

Forced convection

Heat transfer

Momentum transfer

Reynolds number

## ASFA THESAURUS

### Prawn culture

SN: Before 1982 search  
CRUSTACEAN CULTURE.  
Restricted to rearing of  
freshwater prawns  
BT: Crustacean culture  
RT: Freshwater aquaculture  
Polyculture  
Pond culture

Prawn fisheries  
USE: **Shrimp fisheries**

### Precambrian

SN: Before 1982 search  
PRECAMBRIAN ERA  
UF: Archean  
Proterozoic  
BT: Geological time

Precipitation (atmospheric)  
USE: **Atmospheric precipitations**

Precipitation (chemistry)  
USE: **Chemical precipitation**

Precipitation (meteorology)  
USE: **Atmospheric precipitations**

Precision depth recorders  
USE: **Depth recorders**

Precision echosounders  
USE: **Echosounders**

Precision gyroscopes  
USE: **Gyroscopes**

Precision pressure recorders  
USE: **Pressure sensors**

### Predation

SN: Including predator/prey  
relationship  
UF: Prey  
BT: Interspecific relationships  
NT: Prey selection  
RT: Associated species  
Feeding behaviour  
Mortality causes  
Natural mortality  
Predator control  
Predator prey interactions  
Predators

### Predator control

BT: Control  
RT: Biological control  
Predation  
Predators  
Prey selection

### Predator prey interactions

RT: Predation  
Predators

### Predators

BT: Heterotrophic organisms  
RT: Carnivores  
Competitors  
Predation  
Predator control  
Predator prey interactions  
Prey selection  
Protective behaviour  
Secondary production

Predicting  
USE: **Prediction**

### Prediction

UF: Forecasting  
Forecasts  
Predicting  
Predictions  
NT: Climate prediction  
Current prediction  
Earthquake prediction  
Flood forecasting  
Ice forecasting  
Storm surge prediction  
Tidal prediction  
Tsunami prediction  
Wave predicting  
Weather forecasting  
RT: Approximation  
Critical path method  
Long-term changes  
Short-term changes  
Simulation  
Statistical analysis  
Yield predictions

Predictions  
USE: **Prediction**

Preferred temperature  
USE: **Temperature preferences**

### Pregnancy

UF: Gestation  
RT: Parturition  
Placenta  
Sexual reproduction  
Viviparity

Preservation (fishery products)  
USE: **Processing fishery products**

Preservation (organisms)  
USE: **Fixation**

**Preservatives**  
BT: Agents

RT: Anticoagulants  
Fixation

### Pressure

BT: Physical properties  
NT: Atmospheric pressure  
Blood pressure  
Hydrostatic pressure  
Osmotic pressure  
Pore pressure  
Sound pressure  
Vapour pressure  
RT: Compression  
Loads (forces)  
Manometers  
Pressure measurement  
Weight

Pressure (atmospheric)  
USE: **Atmospheric pressure**

Pressure (osmotic)  
USE: **Osmotic pressure**

Pressure (populations)  
USE: **Biotic pressure**

Pressure (water)  
USE: **Hydrostatic pressure**

Pressure chambers  
USE: **Decompression chambers**

### Pressure effects

SN: Hydrostatic influence upon  
behaviour of aquatic organisms  
UF: Pressure tolerance  
BT: Environmental effects  
NT: High pressure effects  
RT: Diving physiology  
Hydrostatic pressure  
Mechanoreceptors

### Pressure field

BT: Fields  
RT: Atmospheric pressure  
Hydrostatic pressure  
Isobaric surfaces  
Pressure gradients

### Pressure gauges

BT: Measuring devices  
Pressure sensors  
RT: Manometers  
Pressure measurement

### Pressure gradients

RT: Hydrostatics  
Pressure field

## ASFA THESAURUS

### Pressure measurement

BT: Measurement  
RT: Pressure  
Pressure gauges

### Pressure sensors

UF: Precision pressure recorders  
Pressure transducers  
BT: Sensors  
NT: Pressure gauges  
RT: Tide gauges  
Transducers  
Wave measuring equipment

Pressure test facilities

USE: **Pressure vessels**

Pressure tolerance

USE: **Pressure effects**

Pressure transducers

USE: **Pressure sensors**

### Pressure vessels

UF: Pressure test facilities  
RT: High pressure effects

Pressure waves

USE: **Elastic waves**

### Prestressed concrete

BT: Concrete

Prey

USE: **Predation**

### Prey selection

BT: Predation  
RT: Competition  
Predator control  
Predators

Prices

USE: **Costs**

### Pricing

UF: Market prices  
RT: Commercial legislation  
Cost analysis  
Costs  
Financing  
Market research  
Marketing  
Trade

Primary fishery products

USE: **Fishery products**

### Primary production

BT: Biological production  
RT: Algal blooms  
Biogeochemical cycle

Compensation depth

Eutrophication

Light penetration

Photosynthesis

Phytobenthos

Phytoplankton

Secondary production

Primary sedimentary structures

USE: **Sedimentary structures**

Primary waves

USE: **P-waves**

### Primers

BT: Coating materials  
RT: Paints

### Probability theory

RT: Game theory  
Mathematical models  
Operations research  
Random processes  
Statistical analysis  
Statistical models  
Statistical sampling  
Stochastic processes  
Time series

Probes (instruments)

USE: **Sensors**

Probes (sensors)

USE: **Sensors**

### Procedures

RT: Planning  
Tests

Proceedings

USE: **Conferences**

### Process plants

RT: Mineral processing  
Oil and gas industry  
Oil refineries  
OTEC plants

### Processed fishery products

SN: Use of a more specific term is recommended. Before 1982 search FISHERY PRODUCTS

BT: Fishery products

NT: Canned products

Chilled products

Cured products

Dried products

Fermented products

Fish fillets

Fish glue

Fish oils

Frozen products

Krill products

Minced products

Powdered products

Roes

Seaweed products

Stickwater

RT: Byproducts

Packing fishery products

Processing fishery products

Seafood

### Processing fishery products

SN: Methods and techniques of processing commercial species, mainly fish and shellfish  
UF: Conservation (fishery products)  
Preservation (fishery products)

NT: Animal oil extraction

Canning

Curing

Drying

Fish meal processing

Seaweed processing

RT: Codex standards

Fish handling

Fish utilization

Fishery industry

Food technology

Processed fishery products

### Product development

UF: Development (products)  
New product development  
Product improvement

RT: Marketing

New products

Production cost

Product improvement

USE: **Product development**

Production (biological)

USE: **Biological production**

Production (industrial)

USE: **Industrial production**

Production (oil and gas)

USE: **Oil and gas production**

### Production cost

UF: GER

Gross energy requirement

BT: Costs

RT: Feasibility

Industrial production

Product development

Production management

## ASFA THESAURUS

### Production management

UF: Market management  
BT: Management  
RT: Industrial production  
Production cost  
Quality control

### Production platforms

BT: Work platforms  
RT: Drilling  
Drilling equipment  
Drilling platforms  
Drilling rigs  
Drilling vessels  
Oil and gas production

Production rate

USE: **Biological production**

### Products

UF: Goods  
NT: Aquaculture products  
Byproducts  
Fishery products  
Industrial products  
New products  
RT: Raw materials

Professionals

USE: **Experts**

### Profilers

UF: Continuous profilers  
Shear probes  
BT: Instruments  
NT: Bathythermographs  
CTD profilers  
Dropsonde  
Free-fall profilers  
STD profilers  
Velocity profilers  
RT: Oceanographic equipment  
Profiles

### Profiles

NT: Horizontal profiles  
Vertical profiles  
RT: Contours  
Gradients  
Graphs  
Profilers  
Profiling

### Profiling

SN: Use of a more specific term is recommended  
NT: Seismic reflection profiling  
Seismic refraction profiling  
Sub-bottom profiling  
Vertical profiling  
RT: Profiles

Profiling current meters

USE: **Velocity profilers**

### Progradation

UF: Coast accretion  
RT: Beach accretion  
Coastal morphology  
Coasts  
Deltas  
Emergent shorelines  
Eustatic changes  
Regressions  
Retrogradation  
Salt marshes  
Uplift

Programme evaluation

USE: **PERT**

### Programmes

NT: Cruise programmes  
Research programmes  
RT: Planning

Programming

USE: **Planning**

### Progress reports

BT: Report literature  
RT: Annual reports

### Progressive waves

BT: Oscillatory waves

Project evaluation

USE: **PERT**

### Proline

BT: Amino acids  
RT: Pyrrolidine

Promontories

USE: **Headlands**

### Promoters

Propagation

USE: **Reproduction**

Propagation (water waves)

USE: **Wave propagation**

### Propane

BT: Acyclic hydrocarbons

### Propellers

RT: Cavitation  
Propulsion systems  
Thrusters

### Properties

SN: Use of a more specific term is

recommended

NT: Biological properties  
Chemical properties  
Conservative properties  
Ice properties  
Non-conservative properties  
Organoleptic properties  
Physical properties  
Physicochemical properties  
Sediment properties  
Surface properties  
Water properties  
RT: Parameters

### Property rights

UF: Ownership  
BT: Rights  
RT: Rental  
Riparian rights  
Water rights

### Prophylaxis

UF: Disease preventive treatment  
RT: Disease control  
Diseases  
Parasitism  
Therapy

Proposed research

USE: **Research proposals**

Propulsion engines

USE: **Propulsion systems**

### Propulsion systems

SN: Before 1982 search also  
PROPULSION ENGINES. For  
propulsion of aquatic organisms  
use LOCOMOTION  
UF: Marine propulsion  
Propulsion engines  
NT: Sails  
Thrusters  
RT: Diesel engines  
Manoeuvrability  
Motors  
Nuclear propulsion  
Propellers  
Ship technology  
Shipboard equipment  
Steering systems  
Turbines  
Underwater propulsion  
Vehicles

### Protactinium

BT: Actinides  
RT: Protactinium isotopes

### Protactinium isotopes

BT: Isotopes  
RT: Protactinium

## ASFA THESAURUS

### **Protandry**

RT: Hermaphroditism  
Self fertilization

### **Protected resources**

BT: Resources  
RT: Living resources  
Marine parks  
Natural resources  
Rare resources  
Rare species  
Resource conservation

### **Protection**

NT: Environmental protection  
Fishery protection  
Scour protection  
Seabed protection  
RT: Accident prevention

Protection (coastal)

USE: **Shore protection**

Protection (human)

USE: **Health and safety**

Protection (security)

USE: **Surveillance and enforcement**

### **Protection vessels**

UF: Fishery protection vessels  
RT: Defence craft  
Fishery protection  
Security  
Surface craft  
Surveillance and enforcement

### **Protective behaviour**

SN: Avoiding or hiding from predators  
BT: Behaviour  
RT: Autotomy  
Burrowing organisms  
Camouflage  
Chemical defence  
Chromatic behaviour  
Defence mechanisms  
Mimicry  
Predators  
Schooling behaviour

### **Protective clothing**

RT: Diving equipment  
Safety devices

Protective coatings

USE: **Coating materials**

### **Protein deficiency**

BT: Dietary deficiencies

RT: Protein synthesis

Proteins

### **Protein denaturation**

UF: Denaturation (proteins)  
BT: Biochemical phenomena  
RT: Nucleic acids  
Protein synthesis  
Proteins

Protein metabolism

USE: **Protein synthesis**

### **Protein synthesis**

UF: Peptide synthesis  
Protein metabolism  
BT: Biochemical phenomena  
RT: Amino acids  
Protein deficiency  
Protein denaturation  
Proteins  
Ribosomes

Proteinase

USE: **Enzymes**

### **Proteins**

BT: Organic compounds  
NT: Actin  
Albumins  
Collagen  
Globulins  
Glycoproteins  
Histones  
Lipoproteins  
Luciferin  
Metallothioneins  
Mucins  
Myoglobins  
Myosin  
Peptides  
Peptones  
Single cell proteins  
RT: Amino acids  
Cytochromes  
Enzymes  
Haemocyanins  
Insulin  
Nitrogen compounds  
Nucleic acids  
Nutritive value  
Organic constituents  
Protein deficiency  
Protein denaturation  
Protein synthesis  
Ribosomes  
Serological studies  
Serological taxonomy  
Yolk

Protozoic

USE: **Precambrian**

### **Protists**

SN: The primitive organisms from which animals and plants arose  
UF: Protobionta  
RT: Evolution

Protobionta

USE: **Protists**

### **Protogyny**

RT: Hermaphroditism

Protoplasm

USE: **Cytoplasm**

### **Protoplasts**

RT: Cell membranes  
Cells  
Cytoplasm  
Nuclei

### **Prototypes**

RT: Models  
Specifications

Protozoal diseases

USE: **Protozoan diseases**

Protozoal pesticides

USE: **Antiprotozoal agents**

### **Protozoan diseases**

UF: Protozoal diseases  
BT: Infectious diseases  
RT: Antiprotozoal agents  
Biological control  
Biological vectors  
Fish diseases  
Immunization  
Malaria  
Parasite control  
Parasites  
Parasitic diseases  
Parasitism  
Parasitology

### **Provenance**

UF: Sediment source region  
RT: Palaeocurrents  
Sedimentation  
Sediments

### **Psammon**

SN: The biota existing immediately below the upper layer of sand on beaches, existing in films of water in the interstices  
BT: Aquatic communities  
RT: Epipsammon  
Sand



## ASFA THESAURUS

### **Pteropod ooze**

BT: Calcareous ooze  
RT: Aragonite  
Fossil pteropods

### **Public access**

BT: Access  
RT: Recreation

### **Public health**

UF: Health  
Human health  
BT: Health and safety  
RT: Epidemics  
Human diseases  
Hygiene  
Medicine  
Microbial contamination  
Quarantine regulations  
Radiation protection  
Water pollution treatment  
Water purification

### **Publications**

USE: **Documents**

### **Publicity material**

UF: Advertisements  
RT: Documents  
Lectures

### **Pulp wastes**

BT: Wastes

### **Pulsed lasers**

USE: **Lasers**

### **Pumice**

BT: Volcanic rocks

### **Pump fishing**

BT: Catching methods  
RT: Electric fishing  
Light fishing  
Pumping  
Pumps

### **Pump stations**

UF: Booster stations  
Pipeline pumping stations  
RT: Pipelines  
Pumps

### **Pumping**

RT: Pump fishing  
Pumps  
Slurries

### **Pumps**

UF: Air pumps  
BT: Machinery  
NT: Fish pumps

Water pumps  
RT: Pump fishing  
Pump stations  
Pumping

### **Pumps (water)**

USE: **Water pumps**

### **Pupae**

BT: Insect larvae

### **Pups**

BT: Juveniles

### **Purchasers**

USE: **Consumers**

### **Purchasing**

RT: Acquisition  
Consumers  
Costs

### **Purification (water)**

USE: **Water purification**

### **Purines**

BT: Organic compounds

### **Purse seiners**

USE: **Seiners**

### **Purse seines**

BT: Surrounding nets  
RT: Purse seining  
Seiners

### **Purse seining**

BT: Seining  
RT: Bait fishing  
Purse seines

### **Pycnocline**

UF: Density layer  
BT: Discontinuity layers  
RT: Density fronts  
Density gradients  
Density profiles  
Density stratification  
Isopycnics  
Mixed layer depth  
Thermocline  
Water density  
Water masses

### **Pyloric caeca**

BT: Alimentary organs  
RT: Digestive glands  
Intestines  
Stomach

### **Pyranometers**

USE: **Actinometers**

### **Pyrgeometers**

USE: **Actinometers**

### **Pyridines**

BT: Azines

### **Pyrimidines**

BT: Azines

### **Pyrite**

BT: Sulphide minerals

### **Pyroclastics**

USE: **Volcanic rocks**

### **Pyrolusite**

BT: Oxide minerals  
RT: Manganese minerals

### **Pyrolysis**

BT: Degradation  
RT: Biogeochemistry  
Dissociation  
Temperature effects

### **Pyroxenes**

BT: Silicate minerals  
NT: Augite  
RT: Alkali basalts  
Tholeiite

### **Pyrrhotite**

BT: Sulphide minerals

### **Pyrrolidine**

BT: Amines  
RT: Proline

### **Quahog fisheries**

USE: **Clam fisheries**

### **Quality**

UF: Grades  
RT: Acceptability  
Quality assurance  
Quality control

### **Quality analysis**

USE: **Quality assurance**

### **Quality assurance**

UF: Quality analysis  
Reliability assurance  
RT: Quality  
Quality control  
Storage life  
Tests  
Visual inspection

## ASFA THESAURUS

### Quality control

SN: Methods and procedures for testing and monitoring quality at acceptable levels  
 BT: Control  
 NT: Water quality control  
 RT: Acceptance tests  
     Certification  
     Commercial legislation  
     Control charts  
     Fish spoilage  
     Inspection  
     Performance assessment  
     Production management  
     Quality  
     Quality assurance  
     Standards  
     Storage effects  
     Testing

### Quanta meters

BT: Light measuring instruments  
 RT: Irradiance meters  
     Photometry

### Quantitative distribution

BT: Distribution  
 RT: Abundance  
     Biological charts  
     Biomass  
     Geographical distribution  
     Population density  
     Population number  
     Resource availability  
     Spatial variations  
     Temporal distribution

### Quarantine regulations

SN: Regulations for protecting public health  
 BT: Legislation  
 RT: Epidemics  
     Public health  
     Safety regulations

### Quarries

USE: **Pits**

### Quartz

BT: Silicate minerals  
 RT: Tholeiite

### Quartzite

BT: Silicate minerals

### Quasi-geostrophic motion

BT: Geostrophic flow

### Quasi-geostrophic waves

USE: **Planetary waves**

### Quaternary

SN: Before 1982 search also  
     QUATERNARY PERIOD  
 UF: Quaternary period  
 BT: Cenozoic  
 NT: Holocene  
     Pleistocene  
 RT: Sea level

### Quaternary period

USE: **Quaternary**

### Quays

USE: **Port installations**

### Quinolines

BT: Azines

### Quota regulations

UF: Catch limit  
     Catch quota  
 BT: Fishery regulations  
 RT: Blue whale unit  
     Catch statistics  
     Permits  
     Total allowable catch

### Race

USE: **Subpopulations**

### Raceway culture

UF: River culture  
     Running water culture  
 BT: Aquaculture techniques  
 RT: Crustacean culture  
     Fish culture  
     Freshwater aquaculture  
     Intensive culture  
     Monoculture

### Racial studies

RT: Genetics  
     Stock identification  
     Subpopulations

### Rack culture

USE: **Off-bottom culture**

### Radar

UF: Radar equipment  
     Radar systems  
 BT: Remote sensing equipment  
 NT: Microwave radar  
 RT: Lidar  
     Navigational aids  
     Radar altimetry  
     Radar clutter  
     Radar imagery  
     Radar navigation  
     Radio oceanography  
     Sonar

### Radar altimeters

BT: Altimeters  
 RT: Wave measuring equipment

### Radar altimetry

BT: Altimetry  
 RT: Radar  
     Radar imagery  
     Radio oceanography  
     Satellite altimetry  
     Wave measurement

### Radar clutter

UF: Noise (radar echoes)  
 NT: Surface clutter  
 RT: Radar  
     Radar imagery

### Radar equipment

USE: **Radar**

### Radar imagery

UF: Radar methods (sensing)  
 BT: Microwave imagery  
 RT: Electromagnetic radiation  
     Radar  
     Radar altimetry  
     Radar clutter  
     Radio oceanography  
     Scatterometers

### Radar methods (sensing)

USE: **Radar imagery**

### Radar navigation

BT: Navigation  
     Position fixing  
 RT: Collision avoidance  
     Radar  
     Radio navigation

### Radar systems

USE: **Radar**

### Radiance

SN: Flux of radiant energy in water  
 RT: Emissivity  
     Irradiance  
     Light  
     Light fields  
     Optical properties  
     Radiance meters  
     Radiative transfer  
     Solar radiation

### Radiance distribution

USE: **Light fields**

### Radiance meters

BT: Light measuring instruments  
 RT: Radiance

## ASFA THESAURUS

### Radiation balance

SN: Net flux of solar and terrestrial radiation at water surface

UF: Net radiation

Radiation budget

RT: Heat budget

Heat exchange

Solar radiation

Terrestrial radiation

Radiation budget

USE: **Radiation balance**

Radiation fog

USE: **Fog**

### Radiation hazards

UF: Radioactive exposure

BT: Hazards

RT: Radiation leaks

Radiation protection

Radioactive contamination

Radioactive wastes

### Radiation leaks

BT: Accidents

RT: Radiation hazards

Radioactive waste disposal

Radiation measuring equipment

USE: **Radiometers**

### Radiation protection

UF: Radiological protection

BT: Health and safety

RT: Public health

Radiation hazards

Radioactive contamination

Radioactive waste disposal

Safety regulations

### Radiational tides

BT: Tides

RT: Meteorological tides

Solar radiation

Tidal constituents

### Radiations

SN: Use of a more specific term is recommended

NT: Electromagnetic radiation

Ionizing radiation

Thermal radiation

### Radiative transfer

UF: Radiative transfer equation

BT: Energy transfer

RT: Electromagnetic radiation

Heat transfer

Irradiance

Light fields

Polarization

Radiance

Solar radiation

Terrestrial radiation

Radiative transfer equation

USE: **Radiative transfer**

### Radio

BT: Communication systems

RT: Radio aids

Radio buoys

Television systems

### Radio aids

SN: Equipment used for position fixing in navigation

RT: Radio

Radio navigation

### Radio buoys

BT: Buoys

RT: Communication systems

Fishing buoys

Radio

### Radio navigation

BT: Navigation

Position fixing

NT: Decca

Loran

Omega

RT: Radar navigation

Radio aids

### Radio oceanography

BT: Oceanography

RT: Radar

Radar altimetry

Radar imagery

Remote sensing

Satellite sensing

### Radio telemetry

BT: Telemetry

Radio tracking

USE: **Tracking**

### Radio waves

BT: Electromagnetic radiation

### Radioactive aerosols

UF: Radioactive particulates

BT: Aerosols

RT: Fallout

### Radioactive contamination

UF: Contamination (radioactive)

Radioactive pollution

BT: Pollution

RT: Body burden

Dust

Fallout

Nuclear explosions

Nuclear power plants

Radiation hazards

Radiation protection

Radioactive pollutants

Radioactive waste disposal

Radioactive wastes

Radioactivity

Radiochemistry

Radioecology

Radioisotopes

Radionuclide kinetics

Toxicity

Water pollution

Radioactive dating

USE: **Radiometric dating**

Radioactive exposure

USE: **Radiation hazards**

Radioactive fallout

USE: **Fallout**

Radioactive isotopes

USE: **Radioisotopes**

### Radioactive labelling

UF: Isotopic labelling

Labelling (radioactive)

Radioactive tagging

RT: Radioactive tracers

Radioactivity

### Radioactive materials

BT: Materials

NT: Fission products

RT: Radioactive wastes

Radioisotopes

Radioactive particulates

USE: **Radioactive aerosols**

### Radioactive pollutants

BT: Pollutants

RT: Carcinogens

Fallout

Radioactive contamination

Radioactive wastes

Radioactivity

Radioisotopes

Radioactive pollution

USE: **Radioactive contamination**

Radioactive tagging

USE: **Radioactive labelling**

## ASFA THESAURUS

### Radioactive tracers

BT: Tracers  
RT: Autoradiography  
Carbon 13  
Carbon 14  
Radioactive labelling  
Radioactivity  
Radioecology  
Radiography  
Radioisotopes

### Radioactive waste disposal

BT: Waste disposal  
RT: Radiation leaks  
Radiation protection  
Radioactive contamination  
Radioactive wastes

### Radioactive wastes

SN: Radioactive wastes in aquatic environment  
UF: Nuclear wastes  
BT: Hazardous materials  
Wastes  
RT: Fallout  
Nuclear power plants  
Nuclear radiations  
Radiation hazards  
Radioactive contamination  
Radioactive materials  
Radioactive pollutants  
Radioactive waste disposal  
Radioactivity  
Radioecology  
Thermal pollution

### Radioactivity

RT: Actinium  
Fallout  
Gamma spectroscopy  
Geiger counters  
Ionizing radiation  
Nuclear energy  
Nuclear physics  
Nuclear radiations  
Plutonium  
Radioactive contamination  
Radioactive labelling  
Radioactive pollutants  
Radioactive tracers  
Radioactive wastes  
Radiochemistry  
Radioecology  
Radiography  
Radioisotopes  
Radiometric dating  
Radionuclide kinetics  
Radium  
Uranium

### Radiocarbon dating

BT: Radiometric dating

RT: Carbon 13  
Carbon 14

### Radiochemistry

BT: Chemistry  
RT: Irradiation  
Nuclear radiations  
Radioactive contamination  
Radioactivity  
Radioecology  
Radioisotopes

### Radioecology

SN: Use of a more specific term is recommended  
BT: Ecology  
RT: Radioactive contamination  
Radioactive tracers  
Radioactive wastes  
Radioactivity  
Radiochemistry  
Radioisotopes

Radiographic testing

USE: **Nondestructive testing**

### Radiography

NT: Autoradiography  
RT: Fluorescence microscopy  
Irradiation  
Photography  
Radioactive tracers  
Radioactivity  
X-ray spectroscopy

Radioisotope kinetics

USE: **Radionuclide kinetics**

### Radioisotopes

UF: Radioactive isotopes  
Radionuclides  
BT: Isotopes  
NT: Carbon 14  
RT: Carbon 13  
Europium  
Nuclear physics  
Radioactive contamination  
Radioactive materials  
Radioactive pollutants  
Radioactive tracers  
Radioactivity  
Radiochemistry  
Radioecology  
Radiometric dating  
Radionuclide kinetics

### Radiolarian ooze

SN: Composed of skeletons of planktonic animals  
BT: Siliceous ooze  
RT: Fossil radiolaria  
Radiolarite

### Radiolarite

BT: Siliceous rocks  
RT: Clastics  
Pelagic sediments  
Radiolarian ooze

Radiological protection

USE: **Radiation protection**

### Radiometers

UF: Radiation measuring equipment  
BT: Measuring devices  
Remote sensing equipment  
NT: Actinometers  
Infrared detectors  
Microwave radiometers  
RT: Electromagnetic radiation  
Light measuring instruments  
Multispectral scanners  
Photometers  
Sensors

Radiometers (microwave)

USE: **Microwave imagery**

### Radiometric dating

SN: Before 1982 search  
RADIOACTIVE DATING  
UF: Isotope dating  
Radioactive dating  
BT: Geochronometry  
NT: Oxygen isotope dating  
Potassium-argon dating  
Radiocarbon dating  
Rubidium-strontium dating  
Thorium-230/thorium-232 dating  
Uranium-helium dating  
RT: Absolute age  
Geological time  
Isotopes  
Nuclear radiations  
Oxygen isotope ratio  
Radioactivity  
Radioisotopes  
Uranium-234/uranium-238 ratio

### Radionuclide kinetics

SN: For radionuclides in living organisms only  
UF: Contamination (internal)  
Radioisotope kinetics  
Radionuclide metabolism  
Radionuclide transfer (in organisms)  
Radionuclide turnover (in organisms)  
BT: Kinetics  
RT: Biological half life  
Body burden

(cont'd)

## ASFA THESAURUS

### *Radionuclide kinetics (cont'd)*

- Metabolism
- Radioactive contamination
- Radioactivity
- Radioisotopes

Radionuclide metabolism

USE: **Radionuclide kinetics**

Radionuclide transfer (in organisms)

USE: **Radionuclide kinetics**

Radionuclide turnover (in organisms)

USE: **Radionuclide kinetics**

Radionuclides

USE: **Radioisotopes**

### **Radiosondes**

- UF: Dropwindsondes
- Rawinsondes
- RT: Air temperature
- Atmospheric pressure
- Balloons
- Humidity
- Meteorological instruments
- Wind measuring equipment

### **Radium**

- BT: Alkaline earth metals
- Heavy metals
- RT: Radioactivity
- Radium isotopes

### **Radium isotopes**

- BT: Isotopes
- RT: Radium

### **Radon**

- BT: Rare gases
- RT: Radon isotopes

### **Radon isotopes**

- BT: Isotopes
- RT: Radon

### **Radulae**

SN: Before 1982 search MOUTH

### **PARTS**

- BT: Mouth parts
- RT: Alimentary organs
- Teeth

### **Raft culture**

SN: Before 1982 search OFF-BOTTOM CULTURE

- BT: Aquaculture techniques
- RT: Cage culture
- Mollusc culture
- Off-bottom culture

### **Rafting**

- BT: Sediment transport
- NT: Biological rafting
- Ice rafting
- RT: Glacial deposits
- Ice drift

Rafts

USE: **Boats**

Rafts (instrument carriers)

USE: **Data buoys**

Rafts (life)

USE: **Lifeboats**

Rail bridges

USE: **Bridges**

### **Rain**

- UF: Rain water
- BT: Atmospheric precipitations
- NT: Acid rain
- RT: Droughts
- Hail
- Rain gauges
- Rainfall
- Rainy season
- Snow

Rain drops

USE: **Droplets**

### **Rain gauges**

- BT: Meteorological instruments
- RT: Rain
- Rainfall

Rain water

USE: **Rain**

### **Rainfall**

SN: Amount of both rain and water equivalent of frozen precipitation

- RT: Climate
- Droughts
- Hail
- Hydrologic cycle
- Rain
- Rain gauges
- Runoff
- Snow
- Weather

### **Rainy season**

- UF: Wet season
- BT: Seasons
- RT: Dry season
- Monsoons
- Rain
- Tropical environment

### **Raised beaches**

- BT: Beaches
- RT: Emergent shorelines
- Sea level changes
- Strandlines
- Terraces
- Uplift

Rakes

USE: **Grappling gear**

### **Ranching**

SN: Use of the natural aquatic environment as free feeding grounds for culturing organisms

- UF: Ocean ranching
- RT: Stocking (organisms)
- Water rights

### **Random processes**

- RT: Probability theory
- Statistical analysis
- Stochastic processes

Random sampling

USE: **Statistical sampling**

Range action

USE: **Harbour oscillations**

Rare earth elements

USE: **Rare earths**

### **Rare earths**

- UF: Rare earth elements
- BT: Metals
- NT: Actinides
- Lanthanides
- RT: Transition elements

### **Rare gases**

- UF: Inert gases
- Noble gases
- BT: Chemical elements
- Gases
- NT: Argon
- Helium
- Krypton
- Neon
- Radon
- Xenon

### **Rare resources**

- BT: Resources
- RT: Living resources
- Natural resources
- Overexploitation
- Protected resources
- Rare species
- Resource conservation

## ASFA THESAURUS

### Rare species

UF: Endangered organisms  
 Endangered species  
 Species rarity  
 BT: Species  
 RT: Aquatic animals  
 Aquatic plants  
 Nature conservation  
 Protected resources  
 Rare resources  
 Species extinction

Rates and taxes

USE: **Taxes**

### Ratios

NT: Bowen ratio  
 Carbon isotope ratio  
 Carbon/nitrogen ratio  
 Conductivity ratio  
 Mixing ratio  
 Poisson's ratio  
 Signal-to-noise ratio  
 Void ratio  
 RT: Albedo  
 Coefficients  
 Constants  
 Dimensionless numbers  
 Rossby number

### Raw materials

BT: Materials  
 RT: Natural resources  
 Products

Rawinsondes

USE: **Radiosondes**

### Ray paths

UF: Seismic ray path  
 Sound ray paths  
 RT: Seismic propagation  
 Seismic waves  
 Sound waves

### Rayleigh waves

BT: Surface seismic waves

Rays fisheries

USE: **Shark fisheries**

Re-entry (deep-sea drilling)

USE: **Hole re-entry**

Reaction kinetics

USE: **Chemical kinetics**

Reactions (chemical)

USE: **Chemical reactions**

Reading lists

USE: **Bibliographies**

### Rearing

UF: Artificial rearing  
 Experimental rearing  
 Laboratory rearing  
 RT: Aquaculture  
 Aquaculture techniques  
 Artificial feeding  
 Culture tanks  
 Hatching  
 Larval development

Recent epoch

USE: **Holocene**

### Recent sediments

UF: Holocene sediments  
 BT: Sediments

Receptor cells

USE: **Receptors**

### Receptors

UF: Exteroceptors  
 Interoceptors  
 Receptor cells  
 Sensory receptors  
 BT: Cells  
 NT: Target cells  
 Thermoreceptors  
 RT: Neurons  
 Sense organs

### Recirculating systems

UF: Closed recirculating systems  
 Recirculating water systems  
 Recirculation systems  
 Water circulating systems  
 BT: Aquaculture systems  
 RT: Aquaculture equipment  
 Biofilters  
 Culture tanks  
 Water circulation  
 Water filtration  
 Water pumps

Recirculating water systems

USE: **Recirculating systems**

Recirculation systems

USE: **Recirculating systems**

### Reclamation

SN: Use of a more specific term is recommended  
 NT: Lake reclamation  
 Land reclamation  
 Water reclamation  
 RT: Conservation  
 Depletion

Reclamation (lakes)

USE: **Lake reclamation**

Reclamation (land)

USE: **Land reclamation**

Reclamation (water)

USE: **Water reclamation**

### Recombinants

RT: Recombination

### Recombination

RT: Recombinants

Recorders

USE: **Recording equipment**

### Recording equipment

UF: Recorders  
 Recording instruments  
 BT: Equipment  
 NT: Depth recorders  
 Sound recorders  
 Wave recorders  
 RT: Data buoys  
 Data loggers  
 Electronic equipment  
 Measuring devices  
 Monitoring systems  
 Sensors

Recording instruments

USE: **Recording equipment**

### Records

NT: Analog records  
 Digital records  
 Long-term records  
 Short-term records  
 RT: Audio recordings  
 Logbooks  
 Magnetic tape recordings  
 Videotape recordings

### Recovery

SN: Recovery of materials and equipment including underwater vehicles  
 UF: Recovery of equipment  
 NT: Core recovery  
 Mooring recovery  
 RT: Deployment  
 Gear handling  
 Launching  
 Station keeping

Recovery of equipment

USE: **Recovery**

Recovery of wrecks

USE: **Salvaging**

## ASFA THESAURUS

### Recreation

UF: Leisure activities  
Outdoor recreation  
NT: Bathing  
Boating  
Sport fishing  
Surfing  
RT: Public access  
Recreational waters  
Tourism

Recreational fishing  
USE: **Sport fishing**

Recreational swimming  
USE: **Bathing**

### Recreational waters

RT: Beaches  
Marinas  
Marine parks  
Recreation  
Riparian rights  
Water  
Water bodies  
Water use regulations

### Recruitment

SN: Including animal recruitment,  
length, weight and age at first  
capture, number of recruits  
UF: Recruitment rate  
BT: Population functions  
RT: Age at recruitment  
Population structure  
Yield  
Yield/recruit

Recruitment rate  
USE: **Recruitment**

Red blood cells  
USE: **Erythrocytes**

Red blood corpuscles  
USE: **Erythrocytes**

Red boil disease  
USE: **Boil disease**

Red clay  
USE: **Pelagic clay**

Red crab fisheries  
USE: **Squat lobster fisheries**

Red muscles  
USE: **Muscles**

Red pest  
USE: **Vibriosis**

### Red tides

RT: Algal blooms  
Biological poisons  
Discoloured water  
Phytoplankton  
Poisonous organisms  
Toxicity

### Redds

SN: Spawning area of trout or  
salmon on the bottom of a lake  
or stream; usually a clear  
circular depression in gravel  
UF: Salmon nests  
RT: Nests  
Spawning grounds

### Redfish fisheries

UF: Rockfish fisheries  
Scorpionfish fisheries  
BT: Finfish fisheries

### Redmouth disease

UF: Enteric redmouth  
Hagermon redmouth  
RM  
BT: Fish diseases  
RT: Bacterial diseases

### Redox potential

UF: EH  
Oxidation-reduction potential  
BT: Chemical properties  
RT: Chemical reactions  
Oxidation  
Oxidoreductases  
Oxygen depletion  
Redox reactions  
Reduction

Redox processes  
USE: **Redox reactions**

### Redox reactions

UF: Oxidation-reduction reactions  
Redox processes  
BT: Chemical reactions  
RT: Oxidation  
Oxidoreductases  
Polarography  
Redox potential  
Reduction

### Reduction

BT: Chemical reactions  
NT: Sulphate reduction  
RT: Redox potential  
Redox reactions

Reduction division  
USE: **Meiosis**

### Reef fish

BT: Marine fish  
RT: Artificial reefs  
Coral reefs

### Reef fisheries

BT: Marine fisheries  
RT: Artificial reefs  
Coral reefs  
Percoid fisheries

### Reef formation

RT: Reefs  
Sedimentation

### Reefs

NT: Bioherms  
Coral reefs  
Oyster reefs  
RT: Artificial reefs  
Reef formation  
Shallow water  
Shoals

Reefs (artificial)  
USE: **Artificial reefs**

Reefs (coral)  
USE: **Coral reefs**

Reefs (navigational hazard)  
USE: **Shoals**

### Reference levels

BT: Levels  
NT: Datum levels  
Level of no motion  
RT: Data reduction

Refineries  
USE: **Oil refineries**

### Reflectance

UF: Reflectivity  
BT: Optical properties  
RT: Air-water interface  
Albedo  
Glitter  
Light reflection  
Reflected global radiation  
Surface roughness  
Wave effects

### Reflected global radiation

BT: Solar radiation  
RT: Air-water interface  
Reflectance

## ASFA THESAURUS

### Reflection

NT: Light reflection  
 Seismic reflection  
 Sound reflection  
 Wave reflection  
 RT: Absorption (physics)  
 Albedo  
 Reverberation  
 Transmission  
 Wave motion

Reflection (light)  
 USE: **Light reflection**

Reflection (water waves)  
 USE: **Wave reflection**

Reflection loss  
 USE: **Transmission loss**

Reflectivity  
 USE: **Reflectance**

### Refraction

NT: Light refraction  
 Seismic refraction  
 Sound refraction  
 Wave refraction  
 RT: Wave motion

Refraction (light)  
 USE: **Light refraction**

Refraction (water waves)  
 USE: **Wave refraction**

Refraction loss  
 USE: **Transmission loss**

### Refractive index

SN: Before 1982 search  
 REFRACTIVITY  
 UF: Refractivity  
 BT: Optical properties  
 RT: Electrical conductivity  
 Light dispersion  
 Light refraction  
 Light scattering  
 Salinity  
 Salinity measurement  
 Water temperature

Refractivity  
 USE: **Refractive index**

### Refrigeration

SN: Before 1982 search  
 FREEZING  
 RT: Chilled products  
 Chilling storage  
 Cold storage  
 Freezing

Frozen products  
 Refrigerators  
 Thawing

Refrigeration storage  
 USE: **Cold storage**

### Refrigerators

RT: Cold storage  
 Refrigeration

### Refuges

SN: Isolated localities, where  
 organisms are free from natural  
 or man-induced pressures  
 UF: Refugia  
 Wildlife refuges  
 RT: Marine parks  
 Nature conservation  
 Sanctuaries

Refugia  
 USE: **Refuges**

Refuse  
 USE: **Litter**

### Regeneration

SN: Regeneration processes of  
 tissue, organs and appendices  
 lost by injuries in natural or  
 experimental conditions  
 BT: Biological phenomena  
 RT: Autotomy  
 Body organs  
 Degeneration  
 Growth  
 Organ removal

### Regional planning

BT: Planning  
 RT: National planning  
 Regions

### Regional variations

BT: Spatial variations  
 RT: Annual variations  
 Migrations  
 Seasonal variations

### Regions

RT: Regional planning

### Regression analysis

BT: Statistical analysis  
 RT: Correlation analysis  
 Least squares method  
 Scatter diagrams  
 Variance analysis

### Regressions

UF: Marine regressions

RT: Coasts  
 Emergent shorelines  
 Eustatic changes  
 Glaciation  
 Progradation  
 Sea level changes  
 Transgressions  
 Uplift

### Regular waves

BT: Water waves  
 RT: Wave period

### Regulations

USE: **Legislation**

### Reinforced concrete

BT: Concrete  
 RT: Steel

Relative abundance  
 USE: **Abundance**

### Relative density

SN: Use for specific gravity of sea  
 water. Before 1984 search also  
 SPECIFIC GRAVITY  
 BT: Water density  
 RT: Sea water  
 Specific gravity  
 Water properties

### Relative humidity

BT: Humidity  
 RT: Specific humidity

### Relative vorticity

BT: Vorticity  
 RT: Absolute vorticity  
 Vertical shear

### Release mechanisms

UF: Acoustic release mechanisms

### Reliability

RT: Acceptability  
 Accuracy  
 Certification  
 Evaluation  
 Failures  
 Performance assessment  
 Risks

Reliability assurance  
 USE: **Quality assurance**

### Relict lakes

BT: Lakes  
 RT: Fossil sea water

### Relict organisms

USE: **Relict species**



## ASFA THESAURUS

### **Relict sediments**

BT: Sediments

### **Relict shorelines**

BT: Coasts

### **Relict species**

SN: A species that is the remainder of a formerly more widely distributed species

UF: Relict organisms

BT: Species

RT: Ecological distribution

Geographical distribution

Living fossils

Relief forms

USE: **Topographic features**

Remanent magnetism

USE: **Remanent magnetization**

### **Remanent magnetization**

UF: Magnetic remanence

Remanent magnetism

Rock magnetism

BT: Magnetic properties

RT: Core orientation

Geomagnetic field

Palaeomagnetism

### **Remote control**

BT: Control

RT: Acoustic command systems

Automation

Robots

Untethered vehicles

Remote satellite sensing

USE: **Remote sensing**

### **Remote sensing**

SN: Remote sensing of the environment from all locations, i.e. sea surface, space, etc.

For sensing from space use

GEOSENSING

UF: Remote satellite sensing

Remote sensing techniques

NT: Geosensing

RT: Data acquisition

Echosounding

Electromagnetic radiation

Imagery

Infrared detectors

Radio oceanography

Remote sensing equipment

Remote sensing (earth)

USE: **Geosensing**

### **Remote sensing equipment**

UF: Image sensors

Remote sensors

BT: Equipment

NT: Radar

Radiometers

Sonar

RT: Electronic equipment

Laser bathymeters

Lidar

Multispectral scanners

Oceanographic equipment

Photographic equipment

Remote sensing

Scatterometers

Sensors

Sodar

Surveying equipment

Remote sensing techniques

USE: **Remote sensing**

Remote sensors

USE: **Remote sensing equipment**

Remotely operated vehicles

USE: **Unmanned vehicles**

### **Removal**

NT: Organ removal

RT: Installation

Salvaging

### **Renewable resources**

BT: Natural resources

RT: Food resources

Geothermal power

Hydroelectric power

Living resources

Marine resources

Nonrenewable resources

Power from the sea

Solar power

Water resources

Wind power

### **Renewal**

RT: Flushing time

Overtun

Residence time

Rent

USE: **Rental**

### **Rental**

SN: Renting of land, water bodies or water resources for exploitation purposes

UF: Rent

Renting

RT: Leases

Property rights

Water rights

Renting

USE: **Rental**

Repair

USE: **Maintenance and repair**

### **Repellents**

NT: Fish repellents

RT: Insecticides

Pest control

Pesticides

Toxicants

Replacing

USE: **Maintenance and repair**

### **Replication**

#### **Report literature**

SN: Unpublished scientific and technical documents, in most cases describing the results of research and development projects. Use of a more specific term is recommended. Before 1982 search REPORTS

UF: Reports

NT: Annual reports

Data reports

Progress reports

RT: Data collections

Documents

Reports

USE: **Report literature**

#### **Reproduction**

SN: Before 1982 search REPRODUCTION (BIOLOGY)

UF: Propagation

Reproduction (biology)

Reproduction rate

NT: Alternate reproduction

Androgenesis

Asexual reproduction

Cell division

Parthenogenesis

Sexual reproduction

Vegetative reproduction

RT: Biogenesis

Reproductive behaviour

Reproductive cycle

Zygotes

Reproduction (biology)

USE: **Reproduction**

Reproduction rate

USE: **Reproduction**

## ASFA THESAURUS

### Reproductive behaviour

BT: Behaviour  
RT: Breeding  
Courtship  
Nesting  
Parental behaviour  
Reproduction  
Sexual behaviour  
Spawning  
Spawning migrations

### Reproductive cycle

SN: A period between hatching and the first spawning of a given generation  
UF: Breeding cycle  
RT: Breeding  
Life cycle  
Reproduction  
Spawning

### Reproductive fertilization

USE: **Biological fertilization**

### Reproductive isolation

USE: **Sexual isolation**

### Reproductive organs (animal)

USE: **Animal reproductive organs**

### Reproductive structures (plant)

USE: **Plant reproductive structures**

### Reproductive system

USE: **Animal reproductive organs**

### Reptile culture

UF: Alligator culture  
Crocodile farming  
BT: Cultures  
NT: Turtle culture  
RT: Aquatic reptiles

### Reptiles (aquatic)

USE: **Aquatic reptiles**

### Rescue

USE: **Search and rescue**

### Research

UF: Research and development  
Scientific research  
NT: Experimental research  
RT: Research institutions  
Research programmes  
Research proposals

### Research (experimental)

USE: **Experimental research**

### Research and development

USE: **Research**

### Research institutions

UF: Institutions (research)  
BT: Organizations  
NT: Biological institutions  
Fishery institutions  
Geological institutions  
Limnological institutions  
Oceanographic institutions  
RT: Education establishments  
Laboratories  
Research  
Research programmes

### Research programmes

BT: Programmes  
RT: Cruise programmes  
Fellowships  
Grants  
Research  
Research institutions  
Research proposals

### Research proposals

SN: Before 1982 search  
PROPOSED RESEARCH  
UF: Proposed research  
RT: Research  
Research programmes

### Research ships

USE: **Research vessels**

### Research vessels

SN: Vessels used for oceanographic and limnological exploration  
UF: Research ships  
RT: Cruise programmes  
Hydrographic surveying  
Hydrographic surveys  
Multiship expeditions  
Surface craft  
Survey vessels  
Weather ships

### Research workers

USE: **Scientific personnel**

### Researchers

USE: **Scientific personnel**

### Reserves

USE: **Potential resources**

### Reservoir dynamics

USE: **Lake dynamics**

### Reservoir fisheries

BT: Inland fisheries

### RT: Lake fisheries

Water reservoirs

### Reservoirs (oil)

USE: **Oil reservoirs**

### Reservoirs (water)

USE: **Water reservoirs**

### Residence time

RT: Age  
Flushing time  
Renewal

### Residual circulation

USE: **Residual flow**

### Residual currents

USE: **Residual flow**

### Residual flow

UF: Residual circulation  
Residual currents  
RT: Fluid motion  
Unidirectional flow  
Water currents

### Resilience (ecosystem)

USE: **Ecosystem resilience**

### Resistance (biological)

USE: **Biological resistance**

### Resistance mechanisms

RT: Biological resistance  
Defence mechanisms

### Resistance to chemicals

USE: **Control resistance**

### Resistance to disease

USE: **Disease resistance**

### Resistance to drugs

USE: **Drug resistance**

### Resistance to parasites

USE: **Parasite resistance**

### Resistivity (electrical)

USE: **Electrical resistivity**

### Resolution

UF: Instrument resolutions  
Resolving power  
RT: Accuracy  
Errors

### Resolving power

USE: **Resolution**

## ASFA THESAURUS

### **Resonance**

- NT: Roll resonance
- Tidal resonance
- RT: Oscillations
- Resonant frequency
- Vibration

### **Resonant frequency**

- UF: Natural frequency
- BT: Frequency
- RT: Resonance
- Vibration

### **Resonant wave interaction**

- BT: Wave interactions
- RT: Internal waves
- Wave-wave interaction

### **Resource availability**

- BT: Availability
- RT: Development potential
- Exploitation
- Population density
- Population number
- Quantitative distribution
- Resource surveys
- Resources

### **Resource conservation**

- BT: Conservation
- RT: Environment management
- Fuel economy
- Natural resources
- Protected resources
- Rare resources
- Resource management

### **Resource depletion**

- BT: Depletion
- RT: Resource management
- Resources

### **Resource development**

- SN: Economic development of
- living and non-living aquatic
- resources
- UF: Development (resources)
- NT: Aquaculture development
- Fishery development
- RT: Development potential
- Development projects
- Exploitation
- Potential resources
- Resource management

### **Resource exploitation**

- USE: **Exploitation**

### **Resource exploration**

- BT: Exploration
- NT: Mineral exploration
- Oil and gas exploration

- RT: Resource surveys
- Resources

### **Resource management**

- BT: Management
- NT: Fishery management
- Water management
- RT: Environment management
- Natural resources
- Resource conservation
- Resource depletion
- Resource development

### **Resource surveys**

- BT: Surveys
- RT: Resource availability
- Resource exploration

### **Resources**

- SN: Before 1982 search NATURAL
- RESOURCES
- UF: Economic resources
- Means
- Potentialities
- NT: Financial resources
- Human resources
- Institutional resources
- Natural resources
- Potential resources
- Protected resources
- Rare resources
- RT: Resource availability
- Resource depletion
- Resource exploration

### **Respiration**

- UF: Respiration rate
- Respiratory quotients
- NT: Aerobic respiration
- Anaerobic respiration
- RT: Metabolism
- Oxygen demand
- Respiratory organs
- Respiratory pigments
- Respiratory system
- Stomata
- Transpiration

### **Respiration rate**

- USE: **Respiration**

### **Respiratory organs**

- UF: Accessory respiratory organs
- BT: Animal organs
- NT: Gills
- Lungs
- Trachea
- RT: Respiration
- Respiratory pigments
- Respiratory system

### **Respiratory pigments**

- UF: Respiratory proteins
- BT: Pigments
- NT: Haemocyanins
- Haemoglobins
- RT: Respiration
- Respiratory organs

### **Respiratory proteins**

- USE: **Respiratory pigments**

### **Respiratory quotients**

- USE: **Respiration**

### **Respiratory system**

- BT: Anatomical structures
- RT: Respiration
- Respiratory organs

### **Respirometers**

- BT: Measuring devices
- RT: Aerobic respiration
- Oxygen consumption

### **Response (oceanic)**

- USE: **Oceanic response**

### **Response analysis**

- BT: Analysis
- RT: Response time
- Tidal analysis

### **Response time**

- RT: Atmospheric forcing
- Oceanic response
- Response analysis
- Salinity

### **Resting eggs**

- UF: Winter eggs
- BT: Eggs
- RT: Resting stages

### **Resting spores**

- BT: Spores
- RT: Resting stages

### **Resting stages**

- RT: Developmental stages
- Dormancy
- Environmental effects
- Resting eggs
- Resting spores
- Sleep

### **Restocking**

- USE: **Stocking (organisms)**

### **Restoration**

- RT: Deterioration
- Maintenance and repair

## ASFA THESAURUS

### Resuspended sediments

UF: Sediments in suspension  
Suspended sediments  
BT: Sediments  
Suspended particulate matter  
RT: Particle motion  
Resuspension  
Sediment traps  
Suspended load

### Resuspension

BT: Suspension  
RT: Resuspended sediments  
Suspended load

### Retinas

UF: Blind spot  
Fovea  
BT: Eyes  
RT: Visual pigments

### Retrogradation

RT: Coastal erosion  
Coastal morphology  
Coasts  
Eustatic changes  
Landslides  
Progradation  
Submerged shorelines  
Submergence  
Transgressions

### Reverberation

UF: Sound reverberation  
BT: Underwater noise  
NT: Bottom reverberation  
RT: Backscatter  
Reflection  
Sound scattering

### Reverse osmosis

BT: Osmosis  
RT: Desalination  
Wastewater treatment

### Reversing thermometers

USE: **Thermometers**

### Review articles

USE: **Literature reviews**

### Reviews (literature)

USE: **Literature reviews**

### Reynolds number

RT: Dimensionless numbers  
Drag coefficient  
Froude number  
Laminar flow  
Prandtl number  
Turbulent flow

### Reynolds stresses

UF: Eddy stresses  
Turbulent shear stresses  
BT: Stress (mechanics)  
RT: Bottom stress  
Eddy viscosity  
Momentum transfer  
Navier-Stokes equations  
Shear stress  
Turbulence  
Turbulent boundary layer  
Turbulent flow  
Wind stress

### Rhenium

BT: Heavy metals  
RT: Rhenium isotopes

### Rhenium isotopes

BT: Isotopes  
RT: Rhenium

### Rheology

BT: Mechanics  
RT: Deformation  
Non-Newtonian fluids  
Plastic flow  
Viscosity

### Rheotaxis

BT: Taxis  
RT: Water currents

### Rheotropism

BT: Tropism  
RT: Water currents

### Rhizomes

BT: Plant organs  
RT: Plant reproductive structures  
Roots  
Stems  
Stomata  
Vegetative reproduction

### Rhodamine B-dye

SN: Synthetic red or pink substance  
used as tracer in study of  
water currents, turbulence  
BT: Dyes  
RT: Lagrangian current  
measurement

### Rhodium

BT: Heavy metals

### Rhodopsin

USE: **Visual pigments**

### Rhyolites

BT: Volcanic rocks

### Rhythms

USE: **Cycles**

### Rhythms (biological)

USE: **Biological rhythms**

### Ria coasts

USE: **Submerged shorelines**

### Rias

USE: **Drowned valleys**

### Riboflavin

USE: **Vitamin B**

### Ribonucleic acid

USE: **RNA**

### Ribose

BT: Monosaccharides  
RT: Aldehydes  
Vitamin B

### Ribosomes

UF: Microsomes  
RT: Cytoplasm  
Protein synthesis  
Proteins  
RNA

### Rice field aquaculture

SN: Before 1982 search  
AGROPISCICULTURE  
UF: Rice-cum-fish culture  
Rizipisciculture  
BT: Agropisciculture  
RT: Aquaculture techniques  
Crayfish culture  
Fish culture  
Freshwater aquaculture  
Rice fields

### Rice fields

UF: Paddy fields  
RT: Rice field aquaculture

### Rice-cum-fish culture

USE: **Rice field aquaculture**

### Richardson number

RT: Instability  
Shear flow  
Vertical shear

### Ridges

BT: Landforms  
NT: Continental ridges  
Submarine ridges

### Rift systems

USE: **Rift zones**

## ASFA THESAURUS

### **Rift valleys**

BT: Valleys  
NT: Median valleys  
RT: Fault zones  
Faults  
Graben  
Rift zones  
Rifting

### **Rift zones**

SN: Previously indexed as RIFTS  
UF: Rift systems  
Rifts  
RT: Diverging plate boundaries  
Fault zones  
Plate divergence  
Rift valleys  
Rifting

### **Rifting**

UF: Taphrogeny  
RT: Fault zones  
Orogeny  
Plate divergence  
Rift valleys  
Rift zones  
Seafloor spreading  
Tectonics

### **Rifts**

USE: **Rift zones**

### **Rigging**

RT: Deck equipment  
Sailing ships

### **Righting**

BT: Ship motion  
RT: Capsizing  
Ship stability

### **Rights**

SN: Use of a more specific term is recommended  
NT: Exclusive rights  
Exploration rights  
Fishing rights  
Property rights  
Riparian rights  
Water rights  
RT: Jurisdiction  
Legal aspects  
Legislation

### **Rigidity**

USE: **Flexibility**

### **Rigidity modulus**

USE: **Shear modulus**

### **Rigs**

USE: **Drilling rigs**

### **Rip channels**

BT: Beach features  
Channels  
RT: Rip currents

### **Rip currents**

BT: Nearshore currents  
RT: Beach cusps  
Coasts  
Edge waves  
Longshore currents  
Rip channels  
Surf zone  
Undertow  
Wave-current interaction  
Wind-driven currents

### **Riparian environments**

RT: Coasts  
Lake shores  
Riparian zone  
River banks

### **Riparian plants**

USE: **Riparian vegetation**

### **Riparian rights**

SN: Belonging to a person who owns land bordering a body of water  
BT: Rights  
RT: Irrigation water  
Property rights  
Recreational waters  
Riparian zone  
Water rights

### **Riparian vegetation**

UF: Riparian plants  
BT: Flora

### **Riparian zone**

RT: Coastal zone  
Riparian environments  
Riparian rights

### **Ripple marks**

BT: Bedding structures  
RT: Sand ripples  
Transverse bed forms

### **Ripples (sand)**

USE: **Sand ripples**

### **Ripples (water)**

USE: **Water ripples**

### **Riprap**

BT: Breakwaters

### **Rise (continental)**

USE: **Continental rise**

### **Rise (oceanic)**

USE: **Mid-ocean ridges**

### **Riser cables**

BT: Cables  
RT: Catenary  
Electric cables

### **Riser pipes**

UF: Marine risers  
BT: Pipes  
RT: Flowlines

### **Risks**

SN: Includes risk analysis  
RT: Feasibility  
Hazards  
Insurance  
Reliability

### **River banks**

BT: Banks (topography)  
RT: Fluvial morphology  
Levees  
Riparian environments  
River beds  
Rivers

### **River basin management**

BT: Ecosystem management  
RT: Flood control  
River basins  
Water management

### **River basins**

UF: Drainage basins  
BT: Basins  
RT: Catchment area  
Fluvial features  
Lake basins  
River basin management  
River valleys  
Rivers  
Watersheds

### **River beds**

RT: Bed load  
Bed roughness  
Bottom friction  
Fluvial morphology  
River banks  
Rivers

### **River culture**

USE: **Raceway culture**

### **River currents**

USE: **Stream flow**

## ASFA THESAURUS

### River discharge

SN: Flow from rivers into lakes and seas, contribution to water budget of seas and lakes, influence on environment and organisms  
 UF: River discharge effects  
   River inflow  
 BT: Inflow  
 RT: Fluvial transport  
   River outflow  
   River plumes  
   Rivers  
   Stream flow  
   Water budget

River discharge effects  
 USE: **River discharge**

### River engineering

BT: Engineering  
 RT: Coastal engineering  
   Fluvial morphology  
   Rivers  
   Stream flow  
   Structural engineering

### River fisheries

UF: Stream fisheries  
 BT: Inland fisheries  
 RT: Artisanal fishing  
   Crustacean fisheries  
   Estuarine fisheries  
   Rivers  
   Salmon fisheries

River flow  
 USE: **Stream flow**

River inflow  
 USE: **River discharge**

### River meanders

SN: Before 1986 use MEANDERS (RIVERS)  
 UF: Meanders (rivers)  
 RT: Flood plains  
   Fluvial features  
   Fluvial morphology  
   Meandering  
   Oxbow lakes  
   Rivers

River morphology  
 USE: **Fluvial morphology**

### River outflow

SN: Outflow of water from lakes and other inland water bodies  
 BT: Outflow  
 RT: River discharge  
   Rivers

### River plumes

SN: Plumes mainly caused by suspended material from river discharge into lakes, estuaries or marine coastal areas  
 BT: Plumes  
 RT: Estuarine front  
   River discharge  
   Salt-wedge estuaries  
   Sediment transport  
   Suspended particulate matter  
   Thermal decomposition  
   Turbidity  
   Water mixing

### River valleys

UF: Stream valleys  
 BT: Valleys  
 RT: Alluvial terraces  
   Flood plains  
   Fluvial features  
   Fluvial morphology  
   River basins  
   Rivers  
   Thalweg

### River water

BT: Water  
 RT: Rivers

### Rivers

UF: Streams  
 BT: Inland waters  
 NT: Distributaries  
   Tributaries  
 RT: Channels  
   Deltas  
   Flood plains  
   Fluvial features  
   Fluvial morphology  
   Fluvial sedimentation  
   Fluvial transport  
   Lotic environment  
   Oxbow lakes  
   River banks  
   River basins  
   River beds  
   River discharge  
   River engineering  
   River fisheries  
   River meanders  
   River outflow  
   River valleys  
   River water  
   Stream flow  
   Stream flow rate  
   Water resources

Rizipisciculture  
 USE: **Rice field aquaculture**

### RM

USE: **Redmouth disease**

### RNA

SN: Before 1982 search RIBONUCLEIC ACID  
 UF: Ribonucleic acid  
 BT: Nucleic acids  
 RT: Polymerization  
   Ribosomes

Road bridges  
 USE: **Bridges**

Roadsteads  
 USE: **Anchorage**

### Robots

BT: Electronic equipment  
 RT: Automation  
   Computers  
   Manipulators  
   Remote control

### Rock deformation

BT: Deformation  
 NT: Diapirism  
 RT: Faults  
   Folds  
   Rock mechanics  
   Rocks

Rock density  
 USE: **Sediment density**

Rock falls  
 USE: **Debris flow**

Rock magnetism  
 USE: **Remanent magnetization**

### Rock mechanics

UF: Rock shear  
   Rock stress  
 BT: Mechanics  
 RT: Elasticity  
   Rock deformation  
   Rocks  
   Soil mechanics

Rock pools  
 USE: **Tidal pools**

Rock properties  
 USE: **Sediment properties**

Rock samples  
 USE: **Sediment samples**

Rock sampling  
 USE: **Sediment sampling**

## ASFA THESAURUS

Rock shear  
USE: **Rock mechanics**

Rock stress  
USE: **Rock mechanics**

Rockfish fisheries  
USE: **Redfish fisheries**

Rocklobster fisheries  
USE: **Lobster fisheries**

**Rocks**  
NT: Anisotropic rocks  
Carbonate rocks  
Igneous rocks  
Metamorphic rocks  
Phosphate rocks  
Sedimentary rocks  
Siliceous rocks  
RT: Basement rock  
Lithogenesis  
Outcrops  
Petrogenesis  
Petrology  
Rock deformation  
Rock mechanics  
Rocky shores

**Rocky shores**  
BT: Coastal landforms  
RT: Coasts  
Rocks

**Roe fisheries**  
BT: Fisheries  
RT: Roes

**Roes**  
SN: Gonads of fish or invertebrates marketed in various ways and usually referred to by individual species, e.g. cod roe, salmon roe, etc.  
UF: Fish roe  
Hard roe  
Invertebrate roe  
Milt  
Soft roe  
BT: Processed fishery products  
NT: Caviar  
RT: Roe fisheries

**Roll resonance**  
BT: Resonance  
RT: Buoy motion effects  
Rolling

**Roll response**  
BT: Dynamic response  
RT: Buoy motion effects  
Rolling

**Rollers**  
BT: Swell  
RT: Breakers  
Shoaling waves

**Rolling**  
BT: Ship motion  
RT: Buoy motion effects  
Roll resonance  
Roll response  
Yawing

Root systems  
USE: **Roots**

**Roots**  
UF: Root systems  
BT: Plant organs  
RT: Rhizomes

Rope  
USE: **Ropes**

**Ropes**  
UF: Rope  
NT: Fibre rope (natural)  
Fibre rope (synthetic)  
Wire rope  
RT: Cables  
Chain  
Mooring lines  
Nets  
Towing lines

**Rossby number**  
RT: Coriolis force  
Dimensionless numbers  
Inertia  
Ratios  
Rossby parameter

**Rossby parameter**  
BT: Parameters  
RT: Baroclinic instability  
Beta-plane  
Coriolis parameters  
Planetary waves  
Rossby number

Rossby waves  
USE: **Planetary waves**

**Rotary currents**  
BT: Tidal currents  
RT: Coriolis force  
Current ellipses

**Rotating fluids**  
BT: Fluids  
RT: Fluid motion  
Vortices

**Rotation**  
BT: Motion  
NT: Earth rotation  
RT: Anticyclonic motion  
Cyclonic motion  
Plate motion  
Plate tectonics  
Polar wandering  
Vorticity

**Rotenone**  
RT: Toxicants

Rough fish  
USE: **Trash fish**

**Roughness**  
SN: Use of a more specific term is recommended  
BT: Surface properties  
NT: Bed roughness  
Surface roughness  
RT: Friction

ROVs  
USE: **Unmanned vehicles**

**Row boats**  
SN: Before 1982 search BOATS  
BT: Boats

**Rubber**  
SN: Rubber as a material used in the aquatic environment. For rubber cements or adhesives use ADHESIVES  
BT: Materials

Rubber (adhesives)  
USE: **Adhesives**

Rubbish  
USE: **Litter**

**Rubblemound breakwaters**  
BT: Breakwaters

**Rubidium**  
BT: Alkali metals  
RT: Rubidium isotopes

**Rubidium isotopes**  
BT: Isotopes  
RT: Rubidium  
Rubidium-strontium dating

**Rubidium-strontium dating**  
BT: Radiometric dating  
RT: Rubidium isotopes  
Strontium isotopes

## ASFA THESAURUS

### **Rudites**

RT: Boulder clay  
Boulders  
Breccia  
Cobblestone  
Pebbles

### **Runnels**

BT: Beach features  
RT: Beaches  
Channels

Running water culture

USE: **Raceway culture**

### **Runoff**

SN: Water derived from atmospheric precipitation which reaches streams and rivers. The term must not be confused in this thesaurus with RIVER  
DISCHARGE  
BT: Drainage water  
NT: Agricultural runoff  
Stormwater runoff  
Urban runoff  
RT: Catchment area  
Rainfall  
Waste water  
Watersheds

Runoff from agricultural land

USE: **Agricultural runoff**

### **Rural development**

UF: Development (rural)  
RT: Urbanization

Rust

USE: **Corrosion**

### **Ruthenium**

BT: Heavy metals  
RT: Ruthenium isotopes

### **Ruthenium isotopes**

BT: Isotopes  
RT: Ruthenium

### **Rutile**

BT: Oxide minerals  
RT: Heavy minerals  
Placers  
Titanium

### **S-waves**

UF: Secondary waves  
Shear waves  
BT: Body waves  
RT: P-waves  
Shear wave velocities

### **Sabkhas**

UF: Salt flats  
NT: Playas  
RT: Arid environments  
Coastal lagoons  
Deserts  
Eolian deposits  
Evaporites  
Salt deposits  
Supralittoral zone

### **Saccharides**

UF: Sugars  
BT: Carbohydrates  
NT: Monosaccharides  
Polysaccharides

### **Sacrificial anodes**

BT: Anodes  
RT: Cathodic protection

Safety

USE: **Health and safety**

### **Safety devices**

UF: Deck safety equipment  
Safety equipment  
BT: Equipment  
RT: Accident prevention  
Alarm systems  
Breathing apparatus  
Deck equipment  
Fire extinguishers  
Health and safety  
Life saving equipment  
Lifeboats  
Protective clothing  
Safety regulations  
Warning systems

Safety equipment

USE: **Safety devices**

### **Safety regulations**

BT: Legislation  
NT: Diving regulations  
RT: Accident prevention  
Evacuation  
Fire prevention  
Health and safety  
Quarantine regulations  
Radiation protection  
Safety devices

Sailing

USE: **Boating**

### **Sailing ships**

BT: Ships  
NT: Yachts  
RT: Rigging  
Sails

### **Sails**

BT: Propulsion systems  
RT: Sailing ships

### **Saline intrusion**

RT: Ground water  
Saline water  
Salt wedges  
Salt-wedge estuaries  
Water mass intrusions

### **Saline water**

SN: Water with high salt concentration in inland water bodies  
UF: Salt water  
BT: Water  
RT: Brines  
Desalination  
Saline intrusion  
Salt lakes  
Salt marshes  
Sea water  
Water properties

### **Salinity**

BT: Chemical properties  
NT: Chlorinity  
Chlorosity  
Palaeosalinity  
Surface salinity  
RT: Abiotic factors  
Cabbeling  
Conservative properties  
Desalination  
Dissolved salts  
Halocline  
Hydroclimate  
In situ density  
Isohalines  
Potential density  
Refractive index  
Response time  
Salinity charts  
Salinity data  
Salinity effects  
Salinity gradients  
Salinity maximum layer  
Salinity measurement  
Salinity measuring equipment  
Salinity microstructure  
Salinity minimum layer  
Salinity power  
Salinity profiles  
Salinity scales  
Salinity sections  
Salinity tolerance  
Salt flux  
Sea water

(cont'd)



## ASFA THESAURUS

### *Salinity (cont'd)*

Sigma-T  
T/S diagrams  
Water density  
Water types

### **Salinity charts**

BT: Hydrographic charts  
RT: Isohalines  
Salinity  
Salinity data  
Salinity sections  
Salinity tables

### **Salinity data**

BT: Hydrographic data  
RT: Oceanographic data  
Salinity  
Salinity charts  
Salinity tables

### **Salinity effects**

BT: Environmental effects  
RT: Salinity  
Salinity tolerance

Salinity gradient energy conversion

USE: **Salinity power**

### **Salinity gradients**

BT: Gradients  
RT: Double diffusion  
Salinity  
Salinity power  
Salinity profiles  
Salt fingers

### **Salinity maximum layer**

BT: Core layers (water)  
RT: Salinity  
Salinity minimum layer  
Salinity profiles  
Salinity sections

### **Salinity measurement**

BT: Measurement  
RT: Refractive index  
Salinity  
Salinity measuring equipment  
Salinity tables  
Standard sea water  
Titration  
Water analysis

### **Salinity measuring equipment**

BT: Measuring devices  
NT: Salinometers  
RT: Conductivity sensors  
CTD profilers  
Salinity  
Salinity measurement  
STD profilers

### **Salinity microstructure**

SN: Variations in the distribution of salinity on a scale of 10 cm or less  
BT: Microstructure  
RT: Salinity

### **Salinity minimum layer**

BT: Core layers (water)  
RT: Salinity  
Salinity maximum layer  
Salinity profiles  
Salinity sections

### **Salinity power**

SN: Power derived from the osmotic pressure difference between two bodies of water of differing salinities  
UF: Salinity gradient energy conversion  
BT: Power from the sea  
RT: Osmotic pressure  
Salinity  
Salinity gradients

### **Salinity profiles**

BT: Vertical profiles  
RT: CTD profilers  
Salinity  
Salinity gradients  
Salinity maximum layer  
Salinity minimum layer  
Salinity sections  
STD profilers

### **Salinity scales**

NT: Practical salinity scale  
RT: Salinity

### **Salinity sections**

BT: Hydrographic sections  
RT: Isohalines  
Salinity  
Salinity charts  
Salinity maximum layer  
Salinity minimum layer  
Salinity profiles  
Salinity stratification  
Vertical distribution

### **Salinity stratification**

UF: Stratification (salinity)  
BT: Stratification  
RT: Density stratification  
Halocline  
Salinity sections  
Salt-wedge estuaries

### **Salinity tables**

BT: Oceanographic tables

RT: Salinity charts

Salinity data  
Salinity measurement

### **Salinity tolerance**

BT: Tolerance  
RT: Amphihaline species  
Estuarine organisms  
Euryhalinity  
Indicator species  
Osmoregulation  
Salinity  
Salinity effects  
Stenohalinity

### **Salinity-temperature-depth observations**

USE: STD observations

### **Salinity-temperature-depth profilers**

USE: STD profilers

Salinity-temperature-depth profiles

USE: **STD profiles**

### **Salinometers**

BT: Salinity measuring equipment

### **Salmon fisheries**

UF: Trout fisheries  
BT: Finfish fisheries  
RT: Lake fisheries  
River fisheries

Salmon nests

USE: **Redds**

### **Salt advection**

UF: Salt transport  
BT: Advection  
RT: Conservation of salt  
Salt budget

### **Salt budget**

RT: Conservation of salt  
Dissolved salts  
Salt advection  
Salt flux  
Water budget

### **Salt deposits**

RT: Evaporites  
Playas  
Sabkhas  
Salt lakes  
Sediments  
Subsurface deposits

## ASFA THESAURUS

### Salt domes

BT: Structural domes  
RT: Anticlines  
Cap rocks  
Diapirism  
Diapirs  
Domes

Salt finger convection  
USE: **Double diffusion**

Salt fingering  
USE: **Double diffusion**

### Salt fingers

RT: Dissolved salts  
Double diffusion  
Interface phenomena  
Microstructure  
Salinity gradients  
Transport processes

Salt flats  
USE: **Sabkhas**

### Salt flux

RT: Dissolved salts  
Salinity  
Salt budget

### Salt lakes

BT: Lakes  
RT: Dissolved salts  
Playas  
Saline water  
Salt deposits

### Salt marshes

BT: Marshes  
RT: Progradation  
Saline water  
Tidal flats

### Salt nuclei

UF: Sea salt nuclei  
BT: Salt particles

### Salt particles

BT: Atmospheric particulates  
NT: Salt nuclei

Salt spray  
USE: **Spray**

Salt transport  
USE: **Salt advection**

Salt water  
USE: **Saline water**

Salt water wedges  
USE: **Salt wedges**

### Salt wedges

UF: Salt water wedges  
RT: Estuarine dynamics  
Saline intrusion  
Salt-wedge estuaries

### Salt-wedge estuaries

BT: Estuaries  
RT: Halocline  
River plumes  
Saline intrusion  
Salinity stratification  
Salt wedges  
Turbulent entrainment

### Saltation

RT: Bed load  
Particle motion  
Sediment transport  
Suspension

Salting  
USE: **Curing**

### Salts

UF: Mineral salts  
NT: Carboxylic acid salts  
Dissolved salts  
RT: Carbonates  
Chemical compounds  
Conservation of salt  
Cyanides  
Desalination  
Halogen compounds  
Mineral resources  
Nitrates  
Nitrites  
Phosphates

Salts extraction  
USE: **Demineralization**

Saltwater shrimp culture  
USE: **Shrimp culture**

Salvage  
USE: **Salvaging**

### Salvage equipment

BT: Equipment  
RT: Lifting tackle  
Salvaging  
Water pumps

### Salvaging

SN: Before 1986 search also  
SALVAGE  
UF: Recovery of wrecks  
Salvage  
Wreck recovery  
RT: Locating  
Removal

Salvage equipment  
Search and rescue  
Wrecks

### Samarium

BT: Lanthanides  
RT: Samarium isotopes

### Samarium isotopes

BT: Isotopes  
RT: Samarium

### Sample contamination

UF: Contamination of samples  
RT: Sample storage  
Samples  
Sampling

### Sample storage

BT: Storage  
RT: Core handling  
Sample contamination  
Samples  
Sampling

### Samplers

UF: Sampling devices  
NT: Sediment samplers  
Water samplers  
RT: Collecting devices  
Oceanographic equipment  
Sampling

### Samples

NT: Geological samples  
Water samples  
RT: Sample contamination  
Sample storage  
Sampling

### Sampling

SN: Use of a more specific term is recommended  
UF: Sampling methods  
Sampling techniques  
NT: Air sampling  
Biological sampling  
Seafloor sampling  
Sediment sampling  
Statistical sampling  
Water sampling  
RT: Census  
Sample contamination  
Sample storage  
Samplers  
Samples  
Surveying

Sampling (biological)  
USE: **Biological sampling**

## ASFA THESAURUS

Sampling (statistical)  
USE: **Statistical sampling**

Sampling devices  
USE: **Samplers**

Sampling methods  
USE: **Sampling**

Sampling techniques  
USE: **Sampling**

**Sanctuaries**  
SN: Areas reserved for the protection of particular species of animals during part or all of the year  
RT: Marine parks  
Nature conservation  
Refuges

**Sand**  
BT: Clastics  
RT: Aggregates  
Arenites  
Beaches  
Berms  
Dunes  
Epipsammon  
Gravel  
Meiobenthos  
Psammon  
Sand bars  
Sand patches  
Sand ribbons  
Sandstone  
Sediment load  
Sediment texture  
Silicates  
Silt  
Soils

**Sand banks**  
BT: Banks (topography)  
Bed forms  
RT: Mud banks  
Shoals  
Submarine banks

**Sand bars**  
BT: Bed forms  
RT: Nearshore bars  
Sand  
Shoals

Sand dunes (subaerial)  
USE: **Dunes**

**Sand patches**  
BT: Bed forms  
RT: Sand  
Transverse bed forms

Sand pits  
USE: **Pits**

**Sand ribbons**  
BT: Bed forms  
RT: Sand

**Sand ripples**  
UF: Ripples (sand)  
Wave sand ripples  
BT: Bed forms  
RT: Beach features  
Ripple marks  
Transverse bed forms

**Sand structures**  
BT: Artificial islands

Sand transport  
USE: **Sediment transport**

Sand traps  
USE: **Sediment traps**

**Sand waves**  
UF: Megaripples  
Waves (sand)  
BT: Bed forms  
RT: Dunes  
Transverse bed forms  
Wave slope

**Sandstone**  
BT: Clastics  
Sedimentary rocks  
NT: Oil sands  
RT: Arenites  
Eolian deposits  
Graywacke  
Sand  
Siliceous rocks

Sandy beaches  
USE: **Beaches**

**Sanitary engineering**  
BT: Engineering  
RT: Hygiene  
Sewage disposal  
Sewage ponds  
Sewage treatment  
Sludge treatment  
Waste disposal  
Waste treatment  
Waste water  
Wastewater treatment  
Water filtration  
Water pollution treatment  
Water purification

**Saponins**  
BT: Glycosides

**Saponite**  
BT: Clay minerals

**Saprobionts**  
SN: Organisms feeding on decaying organic matters  
UF: Saprohagic organisms  
Saprophytes  
Saprozoic organisms  
Saprozoites

Sapropelite  
USE: **Sapropels**

**Sapropels**  
SN: Black or brown sediments made up of organic debris.  
Before 1982 search SAPROPEL  
UF: Sapropelite  
BT: Organic sediments  
RT: Anoxic sediments  
Detritus  
Hydrocarbons  
Oozes  
Peat  
Stagnant water  
Suspended organic matter

Saprophagic organisms  
USE: **Saprobionts**

Saprophytes  
USE: **Saprobionts**

**Saprop plankton**  
SN: Plankton found on the surface of stagnant water, developing on decaying organic matter  
BT: Zooplankton

Saprozoic organisms  
USE: **Saprobionts**

Saprozoites  
USE: **Saprobionts**

Sarcoma  
USE: **Tumours**

Sardine fisheries  
USE: **Clupeoid fisheries**

Sardinella fisheries  
USE: **Clupeoid fisheries**

**Satellite altimetry**  
UF: Satellite-borne radar altimetry  
BT: Altimetry  
RT: Geoid

(cont'd)

## ASFA THESAURUS

### *Satellite altimetry (cont'd)*

Radar altimetry  
Sea level measurement  
Surface topography  
Wave measurement

### **Satellite communication**

BT: Communication  
RT: Communication satellites  
Telemetry

### Satellite imagery

USE: **Satellite sensing**

### **Satellite mosaics**

SN: Satellite-sensed images  
assembled to form a continuous  
picture of portions of the  
Earth's surface  
UF: Satellite photographs  
BT: Audiovisual materials  
RT: Aerial photographs  
Infrared imagery  
Microwave imagery  
Satellite photography  
Satellite sensing

### **Satellite navigation**

UF: Satellite position fixing  
Satellite-aided navigation  
BT: Navigation  
Position fixing  
RT: Navigational satellites

### Satellite photographs

USE: **Satellite mosaics**

### **Satellite photography**

UF: Visible and near-infrared  
imagery  
BT: Aerial photography  
RT: Multispectral scanners  
Satellite mosaics  
Satellite sensing

### Satellite position fixing

USE: **Satellite navigation**

### **Satellite sensing**

UF: Satellite imagery  
Satellite-aided sensing  
BT: Geosensing  
RT: Infrared imagery  
Microwave imagery  
Radio oceanography  
Satellite mosaics  
Satellite photography  
Satellites

### Satellite-aided navigation

USE: **Satellite navigation**

### Satellite-aided sensing

USE: **Satellite sensing**

### Satellite-borne radar altimetry

USE: **Satellite altimetry**

### Satellite-tracked buoys

USE: **Drifting data buoys**

### **Satellites**

UF: Artificial satellites  
Satellites (artificial)  
NT: Communication satellites  
Navigational satellites  
Scientific satellites  
RT: Astronomy  
Electronic equipment  
Satellite sensing

### Satellites (artificial)

USE: **Satellites**

### **Saturated hydrocarbons**

UF: Aliphatic hydrocarbons  
Alkanes  
BT: Hydrocarbons  
NT: Acyclic hydrocarbons  
Alicyclic hydrocarbons

### **Saturation**

UF: Saturation index  
NT: Supersaturation  
RT: Condensation  
Evaporation  
Saturation depth  
Solubility  
Solutions

### **Saturation depth**

RT: Saturation  
Water depth

### **Saturation diving**

BT: Diving  
RT: Breathing mixtures  
Decompression  
Diving bells  
Diving suits  
Working underwater

### Saturation index

USE: **Saturation**

### Saturation vapour pressure

USE: **Vapour pressure**

### Scad fisheries

USE: **Carangid fisheries**

### Scale formation

USE: **Scaling**

### **Scale models**

UF: Laboratory models  
Physical models  
BT: Models  
NT: Hydraulic models  
Ship models  
RT: Audiovisual materials  
Mathematical models

### **Scale reading**

BT: Age determination  
RT: Scales

### **Scales**

UF: Dermal denticles  
Fish scales  
BT: Exoskeleton  
RT: Integumentary system  
Scale reading

### **Scaling**

SN: Lime or other scale formation  
on structures and equipment  
UF: Scale formation  
NT: Liming  
RT: Fouling

### **Scallop culture**

SN: Before 1982 search MOLLUSC  
CULTURE  
BT: Mollusc culture

### **Scallop fisheries**

UF: Pecten fisheries  
BT: Mollusc fisheries  
RT: Coastal fisheries

### **Scandium**

BT: Nonmetals  
Transition elements  
RT: Scandium isotopes

### **Scandium isotopes**

BT: Isotopes  
RT: Scandium

### Scanning electron microscopy

USE: **Electron microscopy**

### Scarps

USE: **Escarpments**

### Scars

USE: **Lesions**

### **Scatter diagrams**

BT: Statistical tables  
RT: Regression analysis

## ASFA THESAURUS

### Scatterance meters

BT: Light measuring instruments  
RT: Scattering coefficient  
Volume scattering function

Scattering (light)

USE: **Light scattering**

Scattering (sound)

USE: **Sound scattering**

Scattering (water waves)

USE: **Wave scattering**

### Scattering coefficient

UF: Total scattering coefficient  
BT: Optical properties  
RT: Light scattering  
Scatterance meters

### Scattering layers

UF: Deep scattering layers  
Sound scattering layers  
BT: Discontinuity layers  
RT: Echosounding

Scattering loss

USE: **Transmission loss**

### Scatterometers

BT: Measuring devices  
RT: Backscatter  
Microwaves  
Radar imagery  
Remote sensing equipment  
Synthetic aperture radar

### Scavengers

SN: Animals feeding on dead animal material  
BT: Heterotrophic organisms

### Schistosomiasis

BT: Parasitic diseases

### Schists

BT: Metamorphic rocks  
NT: Greenschists

Scholarships

USE: **Fellowships**

### Schooling behaviour

SN: Swarming, herding and flocking of any aquatic population  
BT: Social behaviour  
RT: Feeding behaviour  
Protective behaviour

Schools

USE: **Education establishments**

Scientific logbooks

USE: **Logbooks**

### Scientific personnel

SN: Before 1986 search also SCIENTISTS  
UF: Research workers  
Researchers  
Scientific research workers  
Scientific researchers  
Scientists  
BT: Personnel  
NT: Biologists  
Ecologists  
Freshwater scientists  
Geologists  
Information scientists  
Marine scientists  
Meteorologists  
Statisticians  
RT: Consultants  
Experts  
Technicians

Scientific research

USE: **Research**

Scientific research workers

USE: **Scientific personnel**

Scientific researchers

USE: **Scientific personnel**

### Scientific satellites

UF: Meteorological satellites  
Oceanographic satellites  
BT: Satellites  
RT: Geosensing

Scientists

USE: **Scientific personnel**

Scooping gear

USE: **Lift-nets**

Scorpionfish fisheries

USE: **Redfish fisheries**

Scottish seines

USE: **Boat seines**

### Scour and fill

BT: Sedimentary structures  
RT: Current scouring  
Scouring

### Scour hollows

BT: Bed forms  
RT: Current scouring

### Scour marks

BT: Current marks  
RT: Current scouring

### Scour protection

BT: Protection  
RT: Artificial seaweed  
Pipeline protection  
Scouring

### Scouring

SN: Use of a more specific term is recommended  
BT: Erosion  
NT: Current scouring  
Iceberg scouring  
Wave scouring  
RT: Bottom currents  
Deterioration  
Failures  
Scour and fill  
Scour protection  
Wind abrasion

SCP

USE: **Single cell proteins**

### Screening

RT: Filtration  
Screens

### Screens

UF: Fish screens  
RT: Aquaculture equipment  
Fishways  
Screening

### Scuba diving

SN: Before 1982 search DIVING  
UF: Skin diving  
BT: Diving  
RT: Breathing apparatus  
Breathing mixtures

Sea bed

USE: **Ocean floor**

Sea blooms

USE: **Algal blooms**

### Sea breezes

SN: Blowing from sea to land.  
Before 1995 search also LAND AND SEA BREEZES  
UF: Lake breezes  
BT: Breezes  
RT: Land breezes  
Monsoons

Sea caves

USE: **Caves**

## ASFA THESAURUS

Sea clutter  
USE: **Surface clutter**

Sea coast  
USE: **Coasts**

Sea cucumber fisheries  
USE: **Echinoderm fisheries**

Sea fans  
USE: **Deep-sea fans**

Sea farming  
USE: **Marine aquaculture**

Sea fisheries  
USE: **Marine fisheries**

Sea floor  
USE: **Ocean floor**

Sea floor topography  
USE: **Bottom topography**

Sea fog  
USE: **Fog**

**Sea grass**  
SN: Species of embryophytes living  
in marine coastal waters  
UF: Seagrass  
BT: Seaweeds

**Sea ice**  
BT: Ice  
RT: Brines  
Fast ice  
Floating ice  
Ice breaking  
Ice fields  
Ice rafting  
Ocean-ice-atmosphere system  
Sea water

Sea law  
USE: **Law of the sea**

**Sea level**  
SN: Height or level of the sea  
surface  
UF: Half tide level  
Sea level data  
Sea level records  
Still water level  
BT: Water levels  
NT: Isostatic sea level  
Mean sea level  
Steric sea level  
RT: Datum levels  
Hypsometry  
Polders  
Quaternary

Sea level changes  
Sea level measurement  
Sea level pressure  
Southern oscillation  
Surface slope  
Surface topography  
Tides

**Sea level changes**  
SN: Before 1995 search also SEA  
LEVEL VARIATIONS  
UF: Sea level variations  
BT: Long-term changes  
NT: Eustatic changes  
RT: Climatic changes  
Palaeoshorelines  
Raised beaches  
Regressions  
Sea level  
Sea level measurement  
Solar-terrestrial activity  
Strandlines  
Transgressions

Sea level data  
USE: **Sea level**

**Sea level measurement**  
SN: Before 1984 search also SEA  
LEVEL MEASURING  
BT: Water level measurement  
RT: Bench marks  
Satellite altimetry  
Sea level  
Sea level changes  
Surface topography

**Sea level pressure**  
BT: Atmospheric pressure  
RT: High pressure systems  
Sea level  
Southern oscillation  
Weather  
Winds

Sea level records  
USE: **Sea level**

Sea level slope  
USE: **Surface slope**

Sea level variations  
USE: **Sea level changes**

Sea mist  
USE: **Fog**

Sea salt nuclei  
USE: **Salt nuclei**

**Sea sickness**  
UF: Motion sickness

BT: Human diseases  
RT: Ship motion

Sea smoke  
USE: **Fog**

Sea snail fisheries  
USE: **Gastropod fisheries**

Sea spray  
USE: **Spray**

**Sea state**  
RT: Environmental conditions  
Sea state scales  
Surface water waves  
Wave climate  
Wave predicting  
Weather

**Sea state scales**  
UF: Douglas scale  
RT: Beaufort scale  
Sea state  
Surface water waves

Sea states (countries)  
USE: **Coastal states**

**Sea surface**  
BT: Surfaces  
RT: Air-sea interaction  
Air-water interface  
Surface chemistry  
Surface films  
Surface microlayer  
Surface properties  
Surface radiation temperature  
Surface salinity  
Surface slope  
Surface temperature  
Surface topography  
Surface water waves

Sea surface clutter  
USE: **Surface clutter**

Sea surface salinity  
USE: **Surface salinity**

Sea surface slope  
USE: **Surface slope**

Sea surface temperature  
USE: **Surface temperature**

Sea surface topography  
USE: **Surface topography**

Sea urchin fisheries  
USE: **Echinoderm fisheries**

## ASFA THESAURUS

### Sea walls

- BT: Coast defences
- RT: Breakwaters
- Ice loads
- Wave runup

### Sea water

- UF: Marine water
- Ocean water
- Seawater
- BT: Water
- NT: Dense water
- Fossil sea water
- Standard sea water
- RT: Artificial seawater
- Desalination
- Marine environment
- Relative density
- Saline water
- Salinity
- Sea ice
- Seawater evolution

### Sea water conversion

- USE: **Desalination**

### Sea-air exchanges

- USE: **Air-water exchanges**

### Seabed

- USE: **Ocean floor**

### Seabed acoustic position fixing

- USE: **Navigation underwater**

### Seabed conventions

- UF: Seabed treaties
- BT: International agreements
- RT: Law of the sea
- Ocean policy
- Undersea warfare

### Seabed deposits

- BT: Mineral deposits
- NT: Aggregates
- Ferromanganese nodules
- Phosphorite nodules
- Placers
- RT: Deep-sea mining
- Metalliferous sediments
- Nodules
- Nonrenewable resources
- Sulphide deposits

### Seabed drifters

- BT: Subsurface drifters
- RT: Bottom currents

### Seabed engineering

- USE: **Offshore engineering**

### Seabed farming

- USE: **Bottom culture**

### Seabed foundations

- USE: **Foundations**

### Seabed habitats

- USE: **Underwater habitats**

### Seabed photographs

- USE: **Bottom photographs**

### Seabed protection

- BT: Protection
- RT: Artificial seaweed

### Seabed samplers

- USE: **Sediment samplers**

### Seabed sampling

- USE: **Seafloor sampling**

### Seabed treaties

- USE: **Seabed conventions**

### Seabed vehicles

- UF: Bottom crawlers
- Crawlers
- BT: Unmanned vehicles
- RT: Self-propelled vehicles
- Tethered vehicles

### Seabights

- BT: Submarine features

### Seabream fisheries

- USE: Percoid fisheries

### Seachannels

- BT: Bed forms
- Channels
- NT: Deep-sea channels
- RT: Abyssal plains
- Bottom erosion
- Deep-sea fans
- Levees
- Microtopography

### Seacoast

- USE: **Coasts**

### Seafloor mapping

- BT: Mapping
- RT: Bathymetry
- Echosounding
- Geological surveys
- Ocean floor
- Sediment sampling
- Sonographs
- Swaths
- Underwater exploration

### Seafloor sampling

- UF: Bottom sampling
- Seabed sampling
- BT: Sampling
- RT: Benthos collecting devices
- Dredges (geology)
- Drilling
- Geological surveys
- Ocean floor
- Penetrometers
- Sediment sampling
- Surveying underwater

### Seafloor spreading

- UF: Spreading rate
- RT: Continental drift
- Fracture zones
- Magnetic anomalies
- Mantle convection
- Median valleys
- Mid-ocean ridges
- Moho
- Ocean floor
- Palaeomagnetism
- Plate tectonics
- Rifting
- Spreading centres

### Seafood

- BT: Human food
- RT: Processed fishery products
- Shellfish

### Seafood products

- USE: **Fishery products**

### Seagrass

- USE: **Sea grass**

### Seagrass resources

- USE: **Botanical resources**

### Seakeeping

- USE: **Ship motion**

### Seaknolls

- UF: Knolls (submarine)
- BT: Submarine features

### Sealing

- USE: **Seals (stoppers)**

### Seals (stoppers)

- UF: Oil seals
- Sealing
- RT: Leaks

### Seamanship

- RT: Navigation
- Ship handling
- Station keeping

## ASFA THESAURUS

### Seamount chains

BT: Submarine features  
RT: Hot spots  
Seamounts  
Submarine volcanoes

### Seamounts

SN: Elevations of sea floor,  
usually volcanic, which may  
form islands  
BT: Submarine features  
NT: Guyots  
RT: Mountains  
Seamount chains

### Seaquakes

RT: Earthquakes

### Search and rescue

UF: Rescue  
RT: Accidents  
Diving  
Emergency vessels  
Locating  
Salvaging  
Survival at sea  
Underwater object location

### Seas

USE: **Oceans**

### Seashells

USE: **Shells**

### Season regulations

UF: Closed seasons  
Fishing seasons  
BT: Fishery regulations  
RT: Permits

### Seasonal changes

USE: **Seasonal variations**

### Seasonal distribution

SN: Before 1982 search  
TEMPORAL  
DISTRIBUTION  
BT: Temporal distribution  
RT: Migrations  
Seasonal variations  
Seasonality

### Seasonal thermocline

BT: Thermocline  
RT: Metalimnion  
Seasonal variations

### Seasonal thermocline (lakes)

USE: **Metalimnion**

### Seasonal variations

SN: Changes between successive

### seasons

UF: Seasonal changes  
Within-year variations  
BT: Periodic variations  
RT: Annual variations  
Horizontal distribution  
Phenology  
Regional variations  
Seasonal distribution  
Seasonal thermocline  
Seasonality  
Seasons  
Vertical distribution

### Seasonality

SN: Before 1982 search also  
SEASONAL VARIATIONS  
BT: Periodicity  
RT: Seasonal distribution  
Seasonal variations  
Seasons

### Seasons

SN: Use of a more specific term is  
recommended  
NT: Autumn  
Cold season  
Dry season  
Rainy season  
Spring  
Summer  
Winter  
RT: Climate  
Climatic zones  
Climatology  
Seasonal variations  
Seasonality  
Spawning seasons

### Seawall wright effect

USE: **Genetic drift**

### Seawater

USE: **Sea water**

### Seawater conversion

USE: **Desalination**

### Seawater evolution

UF: Evolution (seawater)  
History of sea water  
RT: Atmosphere evolution  
Geochemistry  
Sea water

### Seaweed

USE: **Seaweeds**

### Seaweed (artificial)

USE: **Artificial seaweed**

### Seaweed culture

SN: Methods and techniques for  
culture and harvesting of  
seaweeds  
UF: Seaweed farming  
BT: Plant culture  
RT: Brackishwater aquaculture  
Marine aquaculture  
Off-bottom culture  
Seaweeds

### Seaweed farming

USE: **Seaweed culture**

### Seaweed harvesting

BT: Harvesting  
RT: Seaweed processing  
Seaweed products  
Seaweed statistics  
Seaweeds

### Seaweed meal

USE: **Alginates**

### Seaweed processing

SN: Processing of marine plants and  
marine plant products  
BT: Processing fishery products  
RT: Seaweed harvesting  
Seaweed products  
Seaweeds

### Seaweed products

BT: Processed fishery products  
NT: Agar  
Alginates  
Carrageenins  
RT: Seaweed harvesting  
Seaweed processing  
Seaweeds

### Seaweed resources

USE: **Botanical resources**

### Seaweed statistics

SN: Tabulation of harvested macro  
algae from natural beds or  
artificial culture  
BT: Catch statistics  
RT: Aquaculture statistics  
Seaweed harvesting  
Seaweeds

### Seaweeds

SN: Any macro-algae of marine  
environment, mainly species of  
coastal region  
UF: Seaweed  
BT: Marine organisms  
Weeds  
NT: Kelps

(cont'd)



## ASFA THESAURUS

### *Seaweeds (cont'd)*

Sea grass  
RT: Artificial seaweed  
Holdfasts  
Seaweed culture  
Seaweed harvesting  
Seaweed processing  
Seaweed products  
Seaweed statistics  
Terpenes

### **Secchi discs**

BT: Light measuring instruments

### **Secondary production**

BT: Biological production  
RT: Predators  
Primary production  
Zooplankton

### Secondary sedimentary structures

USE: **Sedimentary structures**

### Secondary sex characteristics

USE: **Secondary sexual characters**

### **Secondary sexual characters**

UF: Secondary sex characteristics  
BT: Sex characters  
RT: Sexual dimorphism

### Secondary waves

USE: **S-waves**

### **Secretion**

NT: Lactation  
Neurosecretion  
RT: Byssus  
Excretion  
Hormones  
Secretory organs  
Secretory products

### **Secretory organs**

NT: Glands  
Stomach  
RT: Secretion  
Secretory products  
Venom apparatus

### **Secretory products**

NT: Hormones  
Mucus  
Semen  
RT: Secretion  
Secretory organs

### Secular fluctuations

USE: **Long-term changes**

### **Security**

SN: Use for national defence, and

for protective measures for  
drilling platforms, fishing  
fleets etc. against terrorism  
and sabotage

UF: Defence

RT: Defence craft

Military operations

Protection vessels

Surveillance and enforcement

### Sedentary organisms

USE: **Sessile species**

### Sedentary resources

USE: **Sedentary species**

### **Sedentary species**

UF: Sedentary resources

BT: Species

RT: Migratory species

Sessile species

### **Sediment analysis**

SN: Analysis of sediments for  
determination of organic and  
inorganic components including  
minerals

BT: Analysis

NT: Core analysis

RT: Chemical analysis

Gravimetric techniques

Hydrocarbon analysis

Pollution detection

Sediment chemistry

Sediment composition

Sediment density

Sediment pollution

Sediment properties

Sediment samplers

Sediment samples

Sediment structure

Sediment texture

Sediments

### **Sediment chemistry**

BT: Geochemistry

RT: Biogeochemistry

Chemical properties

Mineralogy

Sediment analysis

Sediment composition

### **Sediment collections**

SN: Collections of sediment  
samples obtained mainly by  
coring

BT: Collections

RT: Sediment sampling

Sediments

### **Sediment composition**

BT: Composition

RT: Sediment analysis

Sediment chemistry

Sediment texture

### **Sediment density**

UF: Rock density

BT: Density

Sediment properties

NT: Wet bulk density

RT: Sediment analysis

Sediments

### Sediment deposition

USE: **Sedimentation**

### **Sediment distribution**

SN: Geographic distribution of  
bottom sediments

BT: Distribution

RT: Bottom topography

Geographical distribution

Geological maps

Sediments

### **Sediment drifts**

UF: Sediment ridges

BT: Bed forms

RT: Bottom currents

Deposition features

Soil mechanics

### **Sediment dynamics**

BT: Dynamics

RT: Bottom stress

Channel flow

Particle motion

Sediment movement

Sediment stability

Sediment transport

### Sediment flow

USE: **Sediment gravity flows**

### **Sediment gravity flows**

UF: Sediment flow

BT: Sediment movement

NT: Fluidized sediment flow

Grain flow

Turbidity currents

### **Sediment load**

NT: Bed load

Suspended load

RT: Clays

Gravel

Sand

Sediment transport

## ASFA THESAURUS

### **Sediment mixing**

UF: Mixing (sediments)  
 NT: Bioturbation  
     Gasurbation  
 RT: Mixing processes  
     Sediment sorting  
     Sediments

### **Sediment movement**

BT: Motion  
 NT: Mass movement  
     Sediment gravity flows  
 RT: Particle motion  
     Sediment dynamics  
     Sediment noise  
     Sediment transport  
     Sediments

### **Sediment noise**

SN: Noise created by movement of  
     sand and shingle due to  
     currents and waves  
 BT: Ambient noise  
 RT: Sediment movement  
     Sediments

Sediment particle motion

USE: **Particle motion**

Sediment permeability

USE: **Permeability**

### **Sediment pollution**

SN: Pollution of sediments  
 BT: Pollution  
 RT: Chemical pollution  
     Groundwater pollution  
     Oil pollution  
     Sediment analysis  
     Sediment sampling  
     Sediment-water interface

### **Sediment properties**

UF: Geotechnical properties  
     Rock properties  
     Soil properties  
 BT: Properties  
 NT: Grain properties  
     Sediment density  
     Sediment stability  
     Sediment structure  
     Sediment temperature  
     Sediment texture  
 RT: Penetration depth  
     Physical properties  
     Pore pressure  
     Sediment analysis  
     Soil mechanics  
     Water content

Sediment ridges

USE: **Sediment drifts**

### **Sediment samplers**

UF: Seabed samplers  
 BT: Samplers  
 NT: Corers  
     Dredges (geology)  
     Drills  
     Grabs  
     Pore water samplers  
 RT: Geological equipment  
     Sediment analysis  
     Sediment samples  
     Sediment sampling  
     Sediment traps

### **Sediment samples**

UF: Rock samples  
 BT: Geological samples  
 NT: Cores  
     Dredged samples  
 RT: Sediment analysis  
     Sediment samplers  
     Sediment sampling

### **Sediment sampling**

UF: Rock sampling  
     Soil sampling  
 BT: Sampling  
 NT: Coring  
 RT: Mineral exploration  
     Penetrometers  
     Seafloor mapping  
     Seafloor sampling  
     Sediment collections  
     Sediment pollution  
     Sediment samplers  
     Sediment samples  
     Surveying underwater

Sediment size

USE: **Grain size**

### **Sediment sorting**

NT: Winnowing  
 RT: Grain size  
     Sediment mixing  
     Sediments

Sediment source region

USE: **Provenance**

### **Sediment sources**

BT: Sediments

### **Sediment stability**

BT: Sediment properties  
     Stability  
 RT: Sediment dynamics  
     Settlement (structural)  
     Slope stability  
     Soil mechanics

### **Sediment structure**

SN: Description of adhesive and  
     cementive properties of sediment  
     and sediment permeability and  
     porosity  
 BT: Sediment properties  
 RT: Sediment analysis  
     Sediment texture  
     Stratigraphy

### **Sediment temperature**

SN: Gradient or temperature fluxes  
     in sediments  
 UF: Beach temperature  
 BT: Sediment properties  
     Temperature  
 RT: Geothermal measurement  
     Heat flow  
     Sediment-water interface  
     Sediments  
     Water temperature

Sediment temperature measurement

USE: **Geothermal measurement**

### **Sediment texture**

SN: Description of particle size of  
     sediments  
 BT: Sediment properties  
     Texture  
 RT: Grain orientation  
     Grain packing  
     Grain shape  
     Grain size  
     Gravel  
     Sand  
     Sediment analysis  
     Sediment composition  
     Sediment structure  
     Sediments

### **Sediment transport**

UF: Sand transport  
     Sediment transport rate  
     Subaqueous sediment transport  
 BT: Transport  
 NT: Eolian transport  
     Fluvial transport  
     Glacial transport  
     Longshore sediment transport  
     Mass gravity transport  
     (sediments)  
     Rafting  
 RT: Bed load  
     Bottom stress  
     Channel flow  
     Coastal erosion  
     Mass movement  
     Particle motion  
     River plumes  
     Saltation

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## ASFA THESAURUS

### *Sediment transport (cont'd)*

- Sediment dynamics
- Sediment load
- Sediment movement
- Sedimentation
- Sediments
- Shoaling
- Suspended load
- Suspended particulate matter
- Suspension
- Tracers
- Traction
- Turbidity currents
- Wave effects

Sediment transport rate

USE: **Sediment transport**

### **Sediment traps**

- UF: Sand traps
- RT: Collecting devices
  - Geological equipment
  - Particulate flux
  - Resuspended sediments
- Sediment samplers
- Silt meters
- Suspended particulate matter

### **Sediment-water exchanges**

- RT: Gas exchange
  - Heat exchange
  - Heat flow
- Sediment-water interface

### **Sediment-water interface**

- SN: Including chemical or physical phenomena occurring in the sediment-water interface
- BT: Interfaces
- RT: Bed forms
  - Benthic environment
  - Heat exchange
  - Heat flow
  - Sediment pollution
  - Sediment temperature
  - Sediment-water exchanges
  - Sediments
  - Wave-seabed interaction

### **Sedimentary basins**

- BT: Basins
- RT: Sedimentation
  - Structural basins

Sedimentary deposits

USE: **Sediments**

### **Sedimentary environments**

- UF: Depositional environments
- BT: Environments
- RT: Deltaic sedimentation
  - Estuarine sedimentation

- Fluvial sedimentation
- Glacial sedimentation
- Lacustrine sedimentation
- Lagoonal sedimentation
- Nearshore sedimentation
- Sediments
- Shelf sedimentation

### **Sedimentary facies**

BT: Facies

Sedimentary petrography

USE: **Petrology**

### **Sedimentary rocks**

UF: Sediments (consolidates)

BT: Rocks

NT: Boulders

- Cobblestone
- Marlstone
- Mudstone
- Sandstone
- Shale
- Siltstone
- RT: Carbonate rocks
  - Evaporites
  - Graywacke
  - Gypsum
  - Ironstone
  - Marl
  - Phosphate rocks
  - Sediments
  - Siliceous rocks
  - Slates
  - Tephra

### **Sedimentary structures**

SN: Features that originate within layers of sediments or along the sediment-water interface prior to lithification

UF: Olistoliths

- Primary sedimentary structures
- Secondary sedimentary structures

NT: Bed forms

- Bedding structures
- Biogenic sedimentary structures
- Boudinage
- Flow structures
- Mud flats
- Pillow structures
- Scour and fill
- Slump structures
- Turbidity current structures

RT: Concretions

- Erosion features
- Geological structures
- Nodules
- Olistostromes
- Sedimentation
- Sediments

### **Sedimentation**

SN: Before 1983 search also

**SEDIMENT DEPOSITION**

UF: Accumulation of sediments

- Deposition (geology)
- Freshwater sedimentation
- Geological deposition
- Marine sedimentation
- Sediment deposition

NT: Deltaic sedimentation

- Diagenesis
- Estuarine sedimentation
- Fluvial sedimentation
- Glacial sedimentation
- Intertidal sedimentation
- Lacustrine sedimentation
- Lagoonal sedimentation
- Nearshore sedimentation
- Pelagic sedimentation
- Shelf sedimentation

RT: Accretion

- Biofacies
- Chemical precipitation
- Decantation
- Erosion
- Provenance
- Reef formation
- Sediment transport
- Sedimentary basins
- Sedimentary structures
- Sedimentology
- Sediments
- Silting
- Suspended particulate matter

### **Sedimentology**

BT: Geology

RT: Diagenesis

- Geomorphology
- Marine geology
- Mineralogy
- Palaeontology
- Sedimentation
- Sediments

### **Sediments**

SN: Use of a more specific term is recommended; consult terms listed below

UF: Sedimentary deposits

NT: Alluvial deposits

- Anoxic sediments
- Authigenic minerals
- Biogenic deposits
- Carbonate sediments
- Chemical sediments
- Clastics
- Cohesionless sediments
- Cohesive sediments
- Littoral deposits
- Oxic sediments

(*cont'd*)

## ASFA THESAURUS

### *Sediments (cont'd)*

Pelagic sediments  
Recent sediments  
Relict sediments  
Resuspended sediments  
Sediment sources  
Terrigenous sediments  
Volcanogenic deposits

RT: Aggregates

Allochthonous deposits  
Argillaceous deposits  
Autochthonous deposits  
Biological rafting  
Bioturbation  
Catagenesis  
Cosmic dust  
Detrital deposits  
Lithofacies  
Melanges  
Oozes  
Petrology  
Provenance  
Salt deposits  
Sediment analysis  
Sediment collections  
Sediment density  
Sediment distribution  
Sediment mixing  
Sediment movement  
Sediment noise  
Sediment sorting  
Sediment temperature  
Sediment texture  
Sediment transport  
Sediment-water interface  
Sedimentary environments  
Sedimentary rocks  
Sedimentary structures  
Sedimentation  
Sedimentology  
Soils  
Stratigraphic correlation  
Tidal deposits

Sediments (consolidates)

USE: **Sedimentary rocks**

Sediments in suspension

USE: **Resuspended sediments**

### **Seed (aquaculture)**

UF: Fish seed  
RT: Fingerlings  
Fry  
Larvae  
Seed collection  
Seeding (aquaculture)  
Spat

### **Seed collection**

UF: Fish fry collection  
Spat collection

Spore collection

RT: Fry

Hatcheries  
Seed (aquaculture)  
Seed production  
Seeding (aquaculture)  
Spores

### **Seed production**

SN: Before 1982 search SEEDING  
(AQUACULTURE)

RT: Batch culture  
Hatcheries  
Seed collection  
Seeding (aquaculture)

### **Seeding (aquaculture)**

RT: Colonization  
Seed (aquaculture)  
Seed collection  
Seed production  
Stocking (organisms)  
Transplantation

### **Seedlings**

RT: Seeds

### **Seeds**

RT: Germination  
Seedlings

### **Seepages**

SN: Use of a more specific term is recommended  
UF: Seeps  
NT: Gas seepages  
Oil seepages  
RT: Percolation  
Pollution  
Water springs

Seeps

USE: **Seepages**

### **Seiches**

UF: Surges (seiches)  
BT: Surface water waves  
NT: Harbour oscillations  
RT: Dynamical oceanography  
Lake dynamics  
Standing waves  
Surface gravity waves  
Surges

### **Seine nets**

BT: Fishing nets  
NT: Beach seines  
Boat seines  
RT: Seiners  
Seining

### **Seiners**

SN: Any type of vessel used in seining or encircling operations  
UF: Purse seiners  
BT: Fishing vessels  
RT: Purse seines  
Seine nets  
Seining  
Surrounding nets

### **Seining**

BT: Net fishing  
NT: Purse seining  
RT: Seine nets  
Seiners  
Surrounding nets

### **Seismic activity**

SN: General phenomena of earth movement and effects on aquatic environment and its exploitation. Before 1983 search also SEISMIC EFFECTS and SEISMICITY  
UF: Seismic effects  
Seismicity  
RT: Earthquake loading  
Earthquakes  
Environmental factors  
Ground motion  
Seismic waves  
Seismic zones  
Seismology

### **Seismic arrays**

BT: Arrays  
RT: Acoustic arrays  
Seismic energy sources  
Seismic equipment

### **Seismic attenuation**

SN: Seismic wave attenuation  
BT: Attenuation  
RT: Seismic waves

### **Seismic data**

BT: Geophysical data  
RT: Seismic data processing

### **Seismic data processing**

BT: Data processing  
NT: Bright spot technology  
RT: Convolution  
Data reduction  
Deconvolution  
Seismic data

Seismic deconvolution

USE: **Deconvolution**

## ASFA THESAURUS

### Seismic discontinuities

NT: Moho  
RT: Seismic layers  
Seismic velocities

Seismic effects

USE: **Seismic activity**

### Seismic energy sources

NT: Air guns  
Sparkers  
RT: Seismic arrays  
Seismic equipment  
Seismic exploration  
Sound generators

Seismic epicentres

USE: **Epicentres**

### Seismic equipment

BT: Geophysical equipment  
RT: Seismic arrays  
Seismic energy sources  
Seismic exploration  
Seismometers  
Sonobuoys  
Streamers

Seismic events

USE: **Earthquakes**

### Seismic exploration

SN: Before 1983 search also  
SEISMIC PROFILING  
UF: Seismic methods  
Seismic profiling  
BT: Geophysical exploration  
NT: Seismic reflection profiling  
Seismic refraction profiling  
Sub-bottom profiling  
RT: Geological surveys  
Seismic energy sources  
Seismic equipment  
Seismic profiles  
Seismology

### Seismic layers

BT: Earth structure  
Layers  
NT: Low-velocity layer  
RT: Seismic discontinuities  
Seismic velocities

Seismic margins

USE: **Active margins**

Seismic methods

USE: **Seismic exploration**

### Seismic profiles

UF: Seismic sections  
BT: Analog records

NT: Seismic reflection profiles

Seismic refraction profiles

RT: Bright spot technology

Geological sections

Seismic exploration

Seismic stratigraphy

Vertical sections

Seismic profiling

USE: **Seismic exploration**

### Seismic propagation

UF: Seismic wave propagation

RT: Ray paths

Seismic reflection

Seismic refraction

Seismic scattering

Seismic waves

Seismic ray path

USE: **Ray paths**

Seismic records

USE: **Seismograms**

### Seismic reflection

UF: Seismic wave reflection

BT: Reflection

RT: Seismic propagation

Seismic reflection profiles

Seismic reflection profiling

Seismic scattering

Seismic waves

Seismic reflection method

USE: **Seismic reflection profiling**

### Seismic reflection profiles

BT: Seismic profiles

RT: Seismic reflection

Seismic reflection profiling

### Seismic reflection profiling

UF: Seismic reflection method

BT: Profiling

Seismic exploration

RT: Seismic reflection

Seismic reflection profiles

Sub-bottom profiling

### Seismic refraction

UF: Seismic wave refraction

BT: Refraction

RT: Seismic propagation

Seismic refraction profiles

Seismic refraction profiling

Seismic scattering

Seismic refraction method

USE: **Seismic refraction profiling**

### Seismic refraction profiles

BT: Seismic profiles

RT: Seismic refraction

Seismic refraction profiling

Seismic stratigraphy

### Seismic refraction profiling

UF: Seismic refraction method

BT: Profiling

Seismic exploration

RT: Seismic refraction

Seismic refraction profiles

### Seismic ridges

BT: Submarine ridges

RT: Aseismic ridges

Mid-ocean ridges

### Seismic scattering

RT: Seismic propagation

Seismic reflection

Seismic refraction

Seismic sea waves

USE: **Tsunamis**

Seismic sections

USE: **Seismic profiles**

### Seismic stratigraphy

UF: Acoustic stratigraphy

BT: Stratigraphy

RT: Seismic profiles

Seismic refraction profiles

### Seismic velocities

UF: Wave velocity (seismic)

BT: Velocity

NT: Compressional wave velocities

Shear wave velocities

RT: Low-velocity layer

Moho

Seismic discontinuities

Seismic layers

Seismic waves

Seismic wave propagation

USE: **Seismic propagation**

Seismic wave reflection

USE: **Seismic reflection**

Seismic wave refraction

USE: **Seismic refraction**

### Seismic waves

UF: Earth waves

Earthquake waves

Long-period seismic waves

Waves (seismic)

BT: Elastic waves

(cont'd)

## ASFA THESAURUS

### *Seismic waves (cont'd)*

NT: Body waves  
 Microseisms  
 Surface seismic waves  
 RT: Ray paths  
 Seismic activity  
 Seismic attenuation  
 Seismic propagation  
 Seismic reflection  
 Seismic velocities  
 Seismograms  
 Seismology  
 Wave properties

### **Seismic zones**

BT: Earth structure  
 RT: Aseismic zones  
 Benioff zone  
 Seismic activity

### Seismicity

USE: **Seismic activity**

### **Seismograms**

UF: Seismic records  
 BT: Analog records  
 RT: Seismic waves  
 Seismometers

### Seismographs

USE: **Seismometers**

### **Seismology**

BT: Geophysics  
 RT: Earthquakes  
 Epicentres  
 Geomorphology  
 Ground motion  
 Seismic activity  
 Seismic exploration  
 Seismic waves  
 Seismometers  
 Tiltmeters

### **Seismometers**

UF: Geophones  
 Seismographs  
 Strain seismometers  
 BT: Measuring devices  
 NT: Ocean bottom seismometers  
 RT: Accelerometers  
 Seismic equipment  
 Seismograms  
 Seismology

### **Selected ships**

SN: Merchant vessels equipped to make basic meteorological and oceanographic observations  
 UF: Ships of opportunity  
 BT: Merchant ships  
 RT: Weather ships

### Selection (biological)

USE: **Bioselection**

### **Selective breeding**

BT: Breeding  
 RT: Aquaculture techniques  
 Domestic species  
 Genetics  
 Hybrid culture  
 Hybrids  
 Intensive culture

### **Selective feeding**

BT: Artificial feeding

### **Selenium**

BT: Heavy metals  
 RT: Selenium compounds  
 Selenium isotopes

### **Selenium compounds**

BT: Chemical compounds  
 RT: Selenium

### **Selenium isotopes**

BT: Isotopes  
 RT: Selenium

### **Self fertilization**

BT: Hermaphroditism  
 RT: Animal reproductive organs  
 Protandry  
 Sexual reproduction

### Self pollination

USE: **Pollination**

### **Self purification**

SN: Natural self purification of waters, sediments, organisms etc.  
 UF: Depuration  
 Pollution self-control  
 RT: Aeration  
 Aerobic bacteria  
 Biochemical oxygen demand  
 Water purification

### **Self-propelled vehicles**

BT: Underwater vehicles  
 NT: Untethered vehicles  
 RT: Free-swimming vehicles  
 Seabed vehicles  
 Submersibles

### **Semen**

BT: Secretory products  
 RT: Sperm

### **Semi-enclosed seas**

BT: Marginal seas

### RT: Embankments

Shelf seas

### **Semidiurnal tides**

UF: Lunar semidiurnal tides  
 Solar semidiurnal tides  
 BT: Tides

### Seminars

USE: **Conferences**

### **Semisubmersible platforms**

SN: Towed or self-propelled structures partially submerged by flooding. Before 1982 search SEMISUBMERSIBLES  
 UF: Semisubmersibles (drilling platforms)  
 BT: Mobile platforms  
 RT: Anchoring  
 Submersible platforms

Semisubmersibles (drilling platforms)

USE: **Semisubmersible platforms**

### Senescence

USE: **Biological aging**

### **Sense functions**

NT: Audition  
 Olfaction  
 Photoreception  
 Tactile functions  
 Taste functions  
 Vision  
 RT: Antennae  
 Chemoreception  
 Neurophysiology  
 Orientation behaviour  
 Sense organs  
 Stimuli

### **Sense organs**

BT: Animal organs  
 NT: Auditory organs  
 Balance organs  
 Chemoreceptors  
 Lateral line  
 Mechanoreceptors  
 Olfactory organs  
 Photoreceptors  
 Sense tentacles  
 Tactile organs  
 Taste organs  
 RT: Central nervous system  
 Nervous tissues  
 Neurophysiology  
 Peripheral nervous system  
 Receptors  
 Sense functions

## ASFA THESAURUS

### Sense tentacles

BT: Sense organs  
Tentacles

### Sensible heat

BT: Heat  
RT: Heat conduction  
Sensible heat transfer

Sensible heat flux

USE: **Sensible heat transfer**

### Sensible heat transfer

SN: Sensible heat flux across  
air-water interface and air-ice  
interface  
UF: Sensible heat flux  
BT: Heat exchange  
RT: Bowen ratio  
Sensible heat

### Sensors

UF: Probes (instruments)  
Probes (sensors)  
BT: Equipment  
NT: Conductivity sensors  
Current sensors  
pH sensors  
Pressure sensors  
Towed sensors  
Wave direction sensors  
RT: Electronic equipment  
Measuring devices  
Oceanographic equipment  
Radiometers  
Recording equipment  
Remote sensing equipment  
Streamers  
Test equipment

Sensory receptors

USE: **Receptors**

### Separation

NT: Centrifugation  
Chemical extraction  
Chemical precipitation  
Decantation  
Desiccation  
Gas oil separation  
Gas water separation  
Oil water separation  
RT: Adsorption  
Aeration  
Animal oil extraction  
Dehydration  
Desalination  
Diffusion  
Dispersion  
Drying  
Electrophoresis  
Gas processing

Separation processes  
Turbulent entrainment  
Water purification

### Separation processes

SN: Before 1982 search also  
SEPARATION  
NT: Demineralization  
Dialysis  
Dissolution  
Distillation  
Ion exchange  
Leaching  
Osmosis  
Solvent extraction  
RT: Oil treating  
Separation

### Septicaemia

UF: Bacterial haemorrhagic  
septicaemia  
Septicemia  
Viral haemorrhagic septicaemia  
BT: Infectious diseases  
RT: Fish diseases  
Haematological diseases  
Viral diseases

Septicemia

USE: **Septicaemia**

### Serine

BT: Amino acids

### Serological studies

UF: Serology  
RT: Antigens  
Blood  
Electrophoresis  
Haematology  
Immunology  
Proteins  
Serological taxonomy  
Serum

### Serological taxonomy

BT: Taxonomy  
RT: Electrophoresis  
Proteins  
Serological studies  
Serum

Serology

USE: **Serological studies**

### Serpentinite

BT: Metamorphic rocks

### Serum

BT: Body fluids  
NT: Antibodies  
RT: Haematology

Serological studies  
Serological taxonomy

Serum albumins

USE: **Albumins**

Serum globulins

USE: **Globulins**

Sessile organisms

USE: **Sessile species**

### Sessile species

UF: Sedentary organisms  
Sessile organisms  
BT: Species  
RT: Benthos  
Sedentary species  
Substrata

### Seston

BT: Aquatic communities  
RT: Plankton  
Suspended particulate matter

Set lines

USE: **Lines**

Set nets

USE: **Gillnets**

### Setae

SN: Slender, usually rigid bristles  
or hairs  
RT: Hair

Settlement (biological)

USE: **Biological settlement**

Settlement (larvae)

USE: **Larval settlement**

### Settlement (structural)

UF: Structural settlement  
RT: Compaction  
Failures  
Foundations  
Geological hazards  
Sediment stability  
Soil mechanics  
Structural engineering  
Structures

### Settling behaviour

BT: Behaviour  
RT: Algal settlements  
Artificial substrata  
Biological settlement  
Colonization  
Larval settlement  
Substrata

## ASFA THESAURUS

### Settling rate

UF: Settling velocity  
Sinking rate  
BT: Velocity  
RT: Particle motion  
Particle settling  
Particulate flux  
Stokes law

Settling velocity

USE: **Settling rate**

Setup (wind)

USE: **Wind setup**

### Sewage

SN: Before 1982 search also  
**SEWAGE EFFLUENTS**

UF: Sewage effluents

BT: Wastes

RT: Domestic wastes

Drainage water

Effluents

Industrial wastes

Organic wastes

Outfalls

Sewage disposal

Sewage ponds

Sewage treatment

Sludge

Waste water

### Sewage disposal

UF: Sewage sludge disposal

BT: Waste disposal

RT: Sanitary engineering

Sewage

Sewage ponds

Sewage treatment

Sewage effluents

USE: **Sewage**

Sewage outfalls

USE: **Outfalls**

Sewage oxidation ponds

USE: **Sewage ponds**

### Sewage ponds

UF: Oxidation lagoons

Sewage oxidation ponds

BT: Ponds

RT: Sanitary engineering

Sewage

Sewage disposal

Sewage treatment

Sludge

Waste disposal

Sewage sludge disposal

USE: **Sewage disposal**

Sewage tanks

USE: **Sewage treatment**

### Sewage treatment

UF: Sewage tanks

BT: Waste treatment

NT: Bioaeration

RT: Aeration

Biodegradation

Chemical degradation

Chlorination

Dechlorination

Flocculation

Sanitary engineering

Sewage

Sewage disposal

Sewage ponds

Sludge treatment

Wastewater treatment

Water filtration

### Sex

UF: Gender

NT: Females

Males

RT: Sex characters

Sex determination

Sex hormones

Sex ratio

Sex reversal

Sexual behaviour

Sexual reproduction

Sexual selection

Sex characteristics

USE: **Sex characters**

### Sex characters

UF: Sex characteristics

Sex differences

Sexual differences

NT: Secondary sexual characters

RT: Animal reproductive organs

Sex

Sex composition

USE: **Sex ratio**

### Sex determination

SN: Physiological mechanisms  
determining sex

RT: Chromosomes

Hermaphroditism

Sex

Sex hormones

Sex reversal

Sexual dimorphism

Sex differences

USE: **Sex characters**

Sex dimorphism

USE: **Sexual dimorphism**

### Sex hormones

SN: Any hormone having a  
morphological or physiological  
effect upon the reproductive  
organs, secondary sex  
characters or sexual behaviour

UF: Androgens

Estrogens

Gonad hormones

Gonadotropic hormones

BT: Hormones

RT: Sex

Sex determination

Sexual behaviour

### Sex ratio

UF: Sex composition

BT: Population structure

RT: Sex

### Sex reversal

RT: Animal reproductive organs

Sex

Sex determination

### Sexual behaviour

BT: Behaviour

RT: Reproductive behaviour

Sex

Sex hormones

Sexual reproduction

### Sexual cells

BT: Cells

NT: Eggs

Gametes

Sperm

RT: Biological fertilization

Genomes

Oogenesis

Polyspermy

Sexual reproduction

Zygotes

Sexual differences

USE: **Sex characters**

### Sexual dimorphism

UF: Dimorphism (sexual)

Sex dimorphism

RT: Biopolymorphism

Organism morphology

Secondary sexual characters

Sex determination

Sexual maturity

Sexual selection

Sexual glands

USE: **Animal reproductive organs**



## ASFA THESAURUS

### Sexual isolation

UF: Isolation (sexual)  
 Reproductive isolation  
 BT: Isolating mechanisms  
 RT: Breeding seasons  
 Sexual selection

### Sexual maturity

UF: Maturation  
 BT: Biological properties  
 RT: Adults  
 Breeding  
 Fecundity  
 Gametogenesis  
 Life cycle  
 Ovulation  
 Sexual dimorphism  
 Sexual reproduction  
 Spermatophores

### Sexual reproduction

SN: Natural or artificial sexual reproduction  
 BT: Reproduction  
 NT: Biological fertilization  
 Parturition  
 RT: Animal reproductive organs  
 Breeding  
 Conjugation  
 Oviparity  
 Ovoviviparity  
 Ovulation  
 Pollination  
 Polyspermy  
 Pregnancy  
 Self fertilization  
 Sex  
 Sexual behaviour  
 Sexual cells  
 Sexual maturity  
 Spawning  
 Spermatophores  
 Viviparity

### Sexual selection

BT: Bioselection  
 RT: Sex  
 Sexual dimorphism  
 Sexual isolation

### Shading

SN: Provision of shade, e.g. by plant cover  
 RT: Canopies  
 Plant utilization

### Shale

BT: Clastics  
 Sedimentary rocks  
 NT: Oil shale  
 RT: Lutites

### Shallow water

BT: Water  
 RT: Continental shelves  
 Deep water  
 Lagoons  
 Littoral zone  
 Marshes  
 Reefs  
 Shallow water tides  
 Shallow water waves  
 Shelf dynamics  
 Shelf seas  
 Shoals  
 Surface water  
 Swamps  
 Water depth  
 Wave refraction

Shallow water dynamics

USE: **Shelf dynamics**

### Shallow water tides

BT: Tides  
 RT: Estuarine tides  
 Shallow water  
 Tide-surge interaction

### Shallow water waves

UF: Long gravity waves  
 Long waves  
 Long-period water waves  
 Long-period waves  
 BT: Water waves  
 NT: Cnoidal waves  
 Solitary waves  
 Tidal bores  
 RT: Nonlinear waves  
 Shallow water  
 Storm surges  
 Tidal waves  
 Tsunamis  
 Wave scouring

### Shape

UF: Configuration  
 NT: Grain shape  
 RT: Contours  
 Deformation  
 Dimensions  
 Morphometry  
 Size

### Shaped charges

BT: Explosives

Shared fishery resources

USE: **Shared stocks**

### Shared stocks

SN: Stocks of associated species occurring within the EEZ of two

or more coastal states

UF: Shared fishery resources

Transboundary stocks

BT: Stocks

RT: Allocation systems

Exclusive economic zone

### Shark attacks

BT: Diving hazards

### Shark fisheries

UF: Chimaeras fisheries

Rays fisheries

Skates fisheries

BT: Finfish fisheries

Shark repellents

USE: **Fish repellents**

### Shark utilization

BT: Fish utilization

### Shear

NT: Current shear

Vertical shear

Wind shear

RT: Dynamic viscosity

Shear flow

Shear modulus

Shear strength

Shear stress

### Shear flow

BT: Fluid flow

NT: Stratified shear flow

Turbulent shear flow

RT: Dynamic viscosity

Mixing length

Richardson number

Shear

Wave interactions

Shear flow instability

USE: **Kelvin-Helmholtz instability**

Shear instability

USE: **Kelvin-Helmholtz instability**

### Shear modulus

UF: Rigidity modulus

BT: Elastic constants

RT: Bulk modulus

Elasticity

Shear

Shear probes

USE: **Profilers**

### Shear strength

BT: Strength

RT: Bearing capacity

(cont'd)

## ASFA THESAURUS

### *Shear strength (cont'd)*

- Cohesive sediments
- Pore pressure
- Shear
- Slope stability
- Strain
- Stress (mechanics)
- Tensile strength
- Vane devices
- Vane shear testing

### **Shear stress**

- UF: Shearing stress
- Tangential stresses
- BT: Stress (mechanics)
- RT: Bottom stress
- Couette flow
- Dynamic viscosity
- Reynolds stresses
- Shear
- Torque
- Wind stress

### **Shear wave velocities**

- BT: Seismic velocities
- RT: S-waves

### Shear waves

USE: **S-waves**

### **Shear zone**

- RT: Fault zones

### Shearing stress

USE: **Shear stress**

### Shelf circulation

USE: **Shelf dynamics**

### **Shelf currents**

- BT: Water currents
- RT: Ocean currents
- Shelf dynamics
- Shelf waves

### **Shelf dynamics**

- UF: Coastal circulation
- Shallow water dynamics
- Shelf circulation
- BT: Water circulation
- NT: Bay dynamics
- Estuarine dynamics
- Fjord dynamics
- Nearshore dynamics
- Shelf edge dynamics
- RT: Coastal countercurrents
- Coastal jets
- Coastal oceanography
- Coastal upwelling
- Coastal waters
- Continental shelves
- Dynamical oceanography

- Shallow water
- Shelf currents
- Shelf edge fronts
- Shelf fronts
- Shelf seas
- Shelf waves
- Tidal mixing

### **Shelf edge**

- UF: Continental shelf break
- Continental shelf edge
- BT: Submarine features
- RT: Continental shelves
- Continental slope
- Shelf edge dynamics
- Shelf edge fronts
- Shelf seas

### **Shelf edge dynamics**

- BT: Shelf dynamics
- RT: Shelf edge
- Shelf fronts
- Slope processes

### **Shelf edge fronts**

- BT: Shelf fronts
- RT: Continental shelves
- Shelf dynamics
- Shelf edge

### **Shelf facies**

- BT: Facies
- RT: Shelf seas
- Shelf sedimentation

### **Shelf fronts**

- BT: Oceanic fronts
- NT: Shelf edge fronts
- RT: Shelf dynamics
- Shelf edge dynamics
- Shelf seas

### **Shelf geology**

- BT: Marine geology
- RT: Bed load
- Continental shelves
- Shelf seas
- Shelf sedimentation

### Shelf life

USE: **Storage life**

### **Shelf seas**

- BT: Marginal seas
- RT: Bottom currents
- Continental shelves
- Semi-enclosed seas
- Shallow water
- Shelf dynamics
- Shelf edge
- Shelf facies
- Shelf fronts

- Shelf geology
- Shelf sedimentation

### **Shelf sedimentation**

- BT: Sedimentation
- RT: Bed load
- Continental shelves
- Sedimentary environments
- Shelf facies
- Shelf geology
- Shelf seas
- Tidal deposits

### **Shelf waves**

- BT: Trapped waves
- RT: Shelf currents
- Shelf dynamics

### **Shellfish**

- SN: Common category which includes shelled molluscs and crustaceans, especially those used as human food
- UF: Crustaceans
- Molluscs
- BT: Aquatic animals
- NT: Brackishwater molluscs
- Freshwater crustaceans
- Freshwater molluscs
- Marine crustaceans
- Marine molluscs
- RT: Fish
- Seafood
- Shellfish catch statistics
- Shellfish culture
- Shells

### **Shellfish catch statistics**

- SN: Catch tabulation in number or weight of shellfish species
- BT: Catch statistics
- RT: By catch
- Shellfish
- Shellfish fisheries

### **Shellfish culture**

- BT: Cultures
- NT: Crustacean culture
- Mollusc culture
- RT: Bottom culture
- Brackishwater aquaculture
- Freshwater aquaculture
- Intensive culture
- Marine aquaculture
- Off-bottom culture
- Shellfish
- Shellfish fisheries
- Thermal aquaculture

### Shellfish diseases

USE: **Fish diseases**

## ASFA THESAURUS

### Shellfish fisheries

- BT: Fisheries
- NT: Crustacean fisheries
  - Echinoderm fisheries
  - Mollusc fisheries
- RT: Marine fisheries
  - Shellfish catch statistics
  - Shellfish culture

Shellfish poisoning (catching method)

USE: **Fish poisoning**

Shellfish poisoning (diarrhetic)

USE: **Diarrhetic shellfish poisoning**

Shellfish poisoning (paralytic)

USE: **Paralytic shellfish poisoning**

### Shells

- SN: Description and composition of exoskeletons of different shellfish species and their use as commercial products
- UF: Seashells
- BT: Animal products
- RT: Calcification
  - Conchology
  - Decalcification
  - Exoskeleton
  - Malacology
  - Mantle
  - Oozes
  - Shellfish

Sheltered environments

USE: **Sheltered habitats**

### Sheltered habitats

- UF: Sheltered environments
- BT: Habitat
- RT: Ecological zonation
  - Exposed habitats
  - Exposure tolerance
  - Shelters

### Shelters

- SN: Natural or artificial underwater shelters made for improvement of the habitat or for fishing purposes
- UF: Artificial shelters
  - Underwater shelters
- RT: Artificial reefs
  - Artificial spawning grounds
  - Habitat improvement (physical)
  - Sheltered habitats

### Shingle

- BT: Clastics
- RT: Beach ridges
  - Pebbles

Shingle beaches

USE: **Beaches**

Ship anchors

USE: **Anchors**

Ship behaviour

USE: **Ship motion**

### Ship canals

- UF: Navigation canals
- BT: Canals
- RT: Harbours
  - Interocean canals
  - Navigational channels
  - Shipping

### Ship design

- BT: Design
- RT: Ship hulls
  - Ship models
  - Ship performance
  - Ship technology

### Ship drift

- UF: Drift (ships)
- BT: Drift
- RT: Dead reckoning
  - Lagrangian current measurement
  - Station keeping

Ship fittings

USE: **Shipboard equipment**

### Ship handling

- BT: Handling
- RT: Manoeuvrability
  - Navigation
  - Seamanship

### Ship hulls

- BT: Hulls
- RT: Catamarans
  - Ship design
  - Ship technology

### Ship losses

- RT: Capsizing
  - Collisions
  - Fire
  - Groundings
  - Wrecks

### Ship models

- BT: Scale models

- RT: Ship design
  - Ship technology
  - Ships

### Ship mooring systems

- SN: To include systems for fixed and mobile platforms
- BT: Mooring systems
- NT: Single point moorings
- RT: Berthing
  - Fenders
  - Positioning systems
  - Ships

### Ship motion

- UF: Seakeeping
  - Ship behaviour
- BT: Motion
- NT: Capsizing
  - Heaving
  - Pitching
  - Righting
  - Rolling
  - Surging
  - Swaying
  - Yawing
- RT: Buoy motion
  - Sea sickness
  - Ship stability
  - Ship technology
  - Ships
  - Stabilizers
  - Wakes
  - Wave action
  - Wave damping
  - Wave effects
  - Wave forces

### Ship performance

- RT: Ship design
  - Ship speed
  - Ship stability
  - Ship technology
  - Ships

### Ship routeing

- UF: Weather routeing
- NT: Ice routeing
- RT: Navigation
  - Wave forecasting
  - Weather forecasting

### Ship speed

- BT: Velocity
- RT: Ship performance
  - Wakes

### Ship stability

- BT: Stability
- RT: Capsizing
  - Righting
  - Ship motion
  - Ship performance
  - Ship technology
  - Ships
  - Stabilizers

## ASFA THESAURUS

### Ship technology

SN: Restrict use to publications concerned with general aspects of the design and construction of vessels and propulsion systems. Before 1982 search SHIPBUILDING, MARINE ENGINEERING and NAVAL ARCHITECTURE

UF: Marine engineering  
Naval architecture  
Naval engineering  
Naval technology  
Shipbuilding

BT: Technology

RT: Propulsion systems  
Ship design  
Ship hulls  
Ship models  
Ship motion  
Ship performance  
Ship stability  
Ships  
Steering systems  
Towed body design  
Underwater vehicles

### Shipboard analysis

SN: Use for analysis aboard research vessels  
BT: Water analysis

### Shipboard computers

USE: **Computers**

### Shipboard equipment

UF: Marine fittings  
Ship fittings  
BT: Equipment  
RT: Diesel engines  
Propulsion systems  
Thrusters

### Shipborne wave recorders

USE: **Wave recorders**

### Shipbuilding

USE: **Ship technology**

### Shipping

SN: Use only as a collective term in the context of transportation, navigation, traffic on high seas, trade, commerce, maritime law, etc.

RT: Cargoes  
Marine transportation  
Navigation regulations  
Ship canals  
Shipping lanes  
Ships  
Traffic management

### Shipping lanes

SN: Routes used by merchant vessels  
RT: Marine transportation  
Shipping  
Traffic management

### Shipping noise

BT: Ambient noise  
RT: Surface noise

### Shipping rules

USE: **Navigation regulations**

### Ships

SN: Use of a more specific term is recommended. See also SURFACE CRAFT

BT: Surface craft

NT: Cable ships

Ice breakers  
Lightships  
Merchant ships  
Sailing ships  
Supply boats  
Support ships  
Tugs  
Weather ships  
RT: Ship models  
Ship mooring systems  
Ship motion  
Ship performance  
Ship stability  
Ship technology  
Shipping

### Ships logbooks

USE: **Logbooks**

### Ships of opportunity

USE: **Selected ships**

### Shoaling

RT: Beach cusps  
Sediment transport  
Shoals  
Waves on beaches

### Shoaling waves

RT: Beach cusps  
Breaking waves  
Rollers  
Shoals  
Waves on beaches

### Shoals

SN: Submerged ridges, banks, bars and reefs constituting a danger for navigation  
UF: Reefs (navigational hazard)  
BT: Submarine features  
RT: Groundings

Navigational hazards  
Reefs  
Sand banks  
Sand bars  
Shallow water  
Shoaling  
Shoaling waves  
Submarine banks

### Shoots

BT: Plant organs

### Shore protection

UF: Coast protection

Protection (coastal)

BT: Coastal zone management

Environmental protection

RT: Beach erosion

Coast defences

Coastal engineering

Coastal erosion

Coastal structures

Lake reclamation

### Shore stations

USE: **Inshore stations**

### Shore whaling

USE: **Artisanal whaling**

### Shoreline erosion

USE: **Coastal erosion**

### Shoreline features

USE: **Coastal landforms**

### Shorelines

USE: **Coasts**

### Short wave radiation

USE: **Solar radiation**

### Short wave-long wave interactions

UF: Long wave-short wave interactions

BT: Wave-wave interaction

RT: Surface water waves

### Short-crested waves

BT: Surface water waves

RT: Directional spectra

Long-crested waves

Wave crests

Wave direction

### Short-term changes

BT: Temporal variations

RT: Long-term changes

Prediction

Short-term records

## ASFA THESAURUS

### Short-term planning

BT: Planning  
RT: Long-term planning

### Short-term records

BT: Records  
RT: Short-term changes

### Shrimp culture

SN: Before 1982 search  
CRUSTACEAN CULTURE  
UF: Marine shrimp culture  
Saltwater shrimp culture  
Shrimp farming  
BT: Crustacean culture  
RT: Mass culture  
Polyculture  
Pond culture

### Shrimp farming

USE: **Shrimp culture**

### Shrimp fisheries

UF: Cangronid fisheries  
Caridean shrimp fisheries  
Non penaeid shrimp fisheries  
Palaemonid fisheries  
Pandalid fisheries  
Penaeid shrimp fisheries  
Prawn fisheries  
BT: Crustacean fisheries  
RT: Lagoon fisheries

### Sial

UF: Granitic layer  
BT: Earth crust  
RT: Continental crust  
Sima

### Sibling species

BT: Species  
RT: Evolution  
Genetics

### Sickness

USE: **Human diseases**

### Side fillets

USE: **Fish fillets**

### Side scan sonar

BT: Active sonar  
RT: Gloria  
Sonographs

### Siderite

BT: Carbonate minerals

### Sigma-T

BT: Water density  
RT: Atmospheric pressure  
In situ density  
In situ temperature

### Potential density

Salinity

### Signal processing

BT: Data processing  
RT: Fourier analysis  
Spectral analysis  
Telemetry

### Signal-to-noise ratio

BT: Ratios  
RT: Attenuation  
Electronic noise

### Significant wave height

BT: Wave height  
RT: Significant waves  
Wave forecasting

### Significant waves

BT: Surface water waves  
RT: Significant wave height  
Wave height  
Wave period

### Silage from fish

USE: **Fish silage**

### Silica

UF: Silicon dioxide  
BT: Silicon compounds  
RT: Cherts  
Cristobalite  
Siliceous ooze  
Tholeiite

### Silicate minerals

BT: Minerals  
NT: Amphiboles  
Andalusite  
Clay minerals  
Feldspars  
Garnet  
Kyanite  
Micas  
Olivine  
Opal  
Pyroxenes  
Quartz  
Quartzite  
Titanite  
Tourmaline  
Zeolites  
Zircon  
RT: Silicates

### Silicates

BT: Silicon compounds  
NT: Iron silicates  
Magnesium silicates  
RT: Non-conservative properties  
Nutrients (mineral)

### Sand

Silicate minerals  
Silicic acid  
Silicon

### Siliceous ooze

UF: Ooze (siliceous)  
BT: Oozes  
NT: Diatom ooze  
Radiolarian ooze  
RT: Silica  
Siliceous sediments

### Siliceous rocks

BT: Rocks  
NT: Cherts  
Diatomites  
Porcellanite  
Radiolarite  
RT: Sandstone  
Sedimentary rocks  
Siliceous sediments

### Siliceous sediments

BT: Biogenic deposits  
RT: Chemical sediments  
Pelagic sediments  
Siliceous ooze  
Siliceous rocks

### Silicic acid

BT: Inorganic acids  
RT: Silicates  
Silicon compounds

### Silicification

RT: Chertification  
Diagenesis  
Metasomatism

### Silicon

BT: Nonmetals  
RT: Silicates  
Silicon compounds  
Silicon cycle  
Silicon isotopes

### Silicon compounds

BT: Chemical compounds  
NT: Silica  
Silicates  
RT: Aluminium compounds  
Silicic acid  
Silicon  
Silicon cycle

### Silicon cycle

BT: Nutrient cycles  
RT: Silicon  
Silicon compounds

## ASFA THESAURUS

Silicon dioxide

USE: **Silica**

### Silicon isotopes

BT: Isotopes

RT: Silicon

### Sill depth

BT: Depth

RT: Fjords

Sills

### Sills

BT: Submarine features

RT: Fjords

Sill depth

Submarine ridges

### Silo culture

BT: Aquaculture techniques

RT: Fish culture

Intensive culture

### Silt

BT: Clastics

RT: Cohesionless sediments

Lutites

Mud

Sand

Silt meters

Silting

Siltstone

### Silt meters

RT: Sediment traps

Silt

Siltation

USE: **Silting**

### Silting

UF: Siltation

RT: Sedimentation

Silt

### Siltstone

BT: Clastics

Sedimentary rocks

RT: Lutites

Mudstone

Silt

Slates

### Silurian

SN: Before 1982 search SILURIAN PERIOD

BT: Palaeozoic

### Silver

BT: Heavy metals

Transition elements

RT: Ferromanganese nodules

Metalliferous sediments

Silver compounds

Silver isotopes

### Silver compounds

BT: Chemical compounds

RT: Silver

### Silver isotopes

BT: Isotopes

RT: Silver

### Sima

UF: Basaltic layer

BT: Earth crust

RT: Oceanic crust

Sial

Similarity index

USE: **Species diversity**

### Simulation

RT: Game theory

Modelling

Operations research

Prediction

Simulators

System analysis

### Simulators

RT: Models

Simulation

Training aids

Single anchor leg mooring

USE: **Single point moorings**

Single cell culture

USE: **Phytoplankton culture**

### Single cell proteins

UF: ASCP

SCP

BT: Proteins

RT: Bacteria

Yeasts

### Single point moorings

SN: Restricted to ships

UF: Single anchor leg mooring

BT: Ship mooring systems

RT: Articulated columns

Loading buoys

### Sinking

RT: Collisions

Suspended particulate matter

Sinking rate

USE: **Settling rate**

Sinusoidal waves

USE: **Linear waves**

Site evaluation

USE: **Site selection**

Site exploration

USE: **Site surveys**

Site investigation

USE: **Site surveys**

### Site selection

SN: Site selection and evaluation for aquaculture purposes, siting of power plants, fishing harbours etc.

UF: Aquaculture sites

Site evaluation

BT: Evaluation

RT: Site surveys

### Site surveys

SN: Before 1986 search also SITE INVESTIGATION

UF: Site exploration

Site investigation

BT: Surveys

RT: Geological surveys

Geophysical surveys

Hydrographic surveys

Oceanographic surveys

Site selection

Surveying underwater

Sitosterols

USE: **Sterols**

### Size

BT: Dimensions

NT: Grain size

Particle size

RT: Area

Capacity

Shape

Size distribution

Volume

Size composition

USE: **Size distribution**

### Size distribution

SN: Length and weight frequencies

UF: Size composition

BT: Population structure

RT: Age composition

Length-weight relationships

Size

Size grading

USE: **Grading**

# ASFA THESAURUS

## Size-limit regulations

BT: Fishery regulations  
RT: Mesh regulations

## Size-weight relationships

USE: **Length-weight relationships**

## Skates fisheries

USE: **Shark fisheries**

## Skeleton

BT: Anatomical structures  
Musculoskeletal system  
NT: Endoskeleton  
Exoskeleton  
RT: Cartilage  
Osteology

## Skewness

RT: Coefficients  
Kurtosis  
Statistical analysis

## Skid mounted units

USE: **Modules**

## Skimmers (oil removal)

USE: **Oil removal**

## Skin

UF: Ectoderm  
Epidermis  
RT: Body walls  
Epithelia

## Skin diving

USE: **Scuba diving**

## Skin temperature

USE: **Surface radiation temperature**

## Skipjack tuna fisheries

USE: **Tuna fisheries**

## Skull

BT: Bones  
RT: Brain  
Head  
Otoliths

## Sky radiation

USE: **Solar radiation**

## Slamming

USE: **Wave forces**

## Slates

RT: Argillaceous deposits  
Chlorite  
Metamorphic rocks  
Micas

## Mudstone

Sedimentary rocks  
Siltstone

## Slaughter

RT: Mortality causes

## Sleep

RT: Hibernation  
Resting stages

## Slicks

NT: Oil slicks  
Windrows  
RT: Surface films

## Slicks (oil)

USE: **Oil slicks**

## Slicks (surface)

USE: **Surface films**

## Slides

BT: Mass movement  
NT: Landslides  
RT: Creep  
Slumping

## Slides (photographic)

BT: Audiovisual materials  
RT: Filmstrips  
Graphics

## Sliding

USE: **Slumping**

## Slimicides

USE: **Fungicides**

## Slope currents

BT: Water currents

## Slope environment

RT: Continental slope

## Slope indicators

UF: Inclinometers  
BT: Measuring devices  
NT: Tiltmeters  
RT: Slopes (topography)

## Slope processes

RT: Cascading  
Shelf edge dynamics

## Slope stability

UF: Soil stability  
BT: Stability  
RT: Creep  
Landslides  
Mass movement  
Sediment stability

## Shear strength

Slopes (topography)  
Slump structures  
Slumping  
Soil mechanics

## Slope water

BT: Water masses

## Slopes (topography)

NT: Beach slope  
Island slope  
RT: Continental slope  
Gradients  
Slope indicators  
Slope stability  
Topographic features

## Sludge

UF: Activated sludge  
Sludge (wastes)  
BT: Wastes  
RT: Mud  
Organic wastes  
Sewage  
Sewage ponds  
Sludge treatment

## Sludge (drilling fluids)

USE: **Drilling fluids**

## Sludge (ice)

USE: **Ice**

## Sludge (wastes)

USE: **Sludge**

## Sludge treatment

BT: Waste treatment  
RT: Aeration  
Biodegradation  
Chemical degradation  
Decantation  
Sanitary engineering  
Sewage treatment  
Sludge  
Water filtration

## Slump structures

UF: Slumps  
BT: Sedimentary structures  
RT: Olistostromes  
Slope stability  
Slumping

## Slumping

UF: Sliding  
BT: Mass gravity transport  
(sediments)  
RT: Continental slope  
Creep

(cont'd)

## ASFA THESAURUS

### *Slumping (cont'd)*

Earthquakes  
Erosion  
Flow structures  
Fluidization  
Geological hazards  
Slides  
Slope stability  
Slump structures

### Slumps

USE: **Slump structures**

### Slurries

RT: Mud  
Pumping  
Suspension

### Small scale aquaculture

UF: Artisanal aquaculture  
Subsistence aquaculture  
RT: Aquaculture techniques  
Fish ponds

### Small scale fishing

USE: **Artisanal fishing**

### Smectite

BT: Clay minerals

### Smoke

RT: Air pollution  
Atmospheric particulates  
Fire

### Smoked products

USE: **Cured products**

### Smoking

USE: **Curing**

### Smolts

BT: Juveniles

### Smooth muscles

USE: **Muscles**

### Snapper fisheries

USE: **Percoid fisheries**

### Snow

BT: Atmospheric precipitations  
RT: Hail  
Ice  
Rain  
Rainfall

### Snow crab fisheries

USE: **Crab fisheries**

### Soaps

BT: Detergents

RT: Domestic wastes

Surfactants  
Water hardness

Social aspects

USE: **Sociological aspects**

### Social behaviour

BT: Behaviour  
NT: Schooling behaviour  
RT: Dominance hierarchies  
Ecological aggregations  
Group effects

Social hierarchy

USE: **Dominance hierarchies**

Societies

USE: **Organizations**

### Socioeconomic aspects

RT: Sociological aspects

### Sociological aspects

UF: Social aspects  
Sociology  
RT: Socioeconomic aspects

Sociology

USE: **Sociological aspects**

### Sodar

UF: Acoustic surveys (atmosphere)  
SONic Detection And  
Range-finding  
RT: Acoustic imagery  
Lidar  
Meteorological instruments  
Remote sensing equipment

### Sodium

BT: Alkali metals  
RT: Sodium compounds  
Sodium isotopes

### Sodium chloride

UF: Common salt  
BT: Chlorides  
Sodium compounds  
RT: Evaporites

### Sodium compounds

BT: Alkali metal compounds  
NT: Sodium chloride  
RT: Dissolved salts  
Sodium

### Sodium isotopes

BT: Isotopes  
RT: Sodium

### Sofar

UF: SOund Fixing And  
Range-finding  
BT: Position fixing  
RT: Sofar floats  
Sound channels

### Sofar floats

BT: Swallow floats  
RT: Sofar

Soft roe

USE: **Roes**

### Soil conservation

BT: Conservation  
RT: Erosion control  
Soil erosion  
Soils

### Soil erosion

BT: Erosion  
RT: Soil conservation  
Soils  
Wind erosion

### Soil mechanics

BT: Mechanics  
RT: Cohesive sediments  
Compaction  
Consolidation  
Creep  
Elastic constants  
Elasticity  
Geotechnology  
Penetration depth  
Rock mechanics  
Sediment drifts  
Sediment properties  
Sediment stability  
Settlement (structural)  
Slope stability  
Soils  
Stress-strain relations  
Trenching  
Void ratio

Soil properties

USE: **Sediment properties**

Soil sampling

USE: **Sediment sampling**

Soil stability

USE: **Slope stability**

### Soils

UF: Earth (soil)  
RT: Gravel  
Humus  
Mud  
Sand

(cont'd)



## ASFA THESAURUS

### *Soils (cont'd)*

- Sediments
- Soil conservation
- Soil erosion
- Soil mechanics

### **Solar activity**

- UF: Sunspots
- RT: Astronomy
  - Solar constant
  - Solar radiation
  - Solar-terrestrial activity
- Sun

### **Solar cells**

- BT: Electric power sources
- RT: Solar power
  - Solar radiation
- Sun

### **Solar constant**

- BT: Constants
- RT: Climatic changes
  - Solar activity
  - Solar radiation
- Sun

### Solar diurnal tides

USE: **Diurnal tides**

### **Solar eclipse**

- UF: Eclipse (solar)
- RT: Astronomy
  - Solar radiation
- Sun

### **Solar power**

- BT: Energy resources
- RT: Renewable resources
  - Solar cells
  - Solar radiation
- Sun

### **Solar radiation**

- UF: Diffuse sky radiation
  - Global radiation
  - Net solar radiation
  - Short wave radiation
  - Sky radiation
- BT: Electromagnetic radiation
- NT: Reflected global radiation
- RT: Albedo
  - Astronomy
  - Climate
  - Cloud cover
  - Energy flow
  - Infrared radiation
  - Insolation
  - Irradiance
  - Light
  - Light penetration
  - Photosynthesis

### Phototaxis

- Phototropism
- Radiance
- Radiation balance
- Radiational tides
- Radiative transfer
- Solar activity
- Solar cells
- Solar constant
- Solar eclipse
- Solar power
- Solar-terrestrial activity
- Sun
- Thermal radiation
- Ultraviolet radiation

### Solar semidiurnal tides

USE: **Semidiurnal tides**

### **Solar tides**

- SN: Before 1982 search also TIDES
- BT: Tides
- RT: Meteorological tides
  - Sun
  - Tidal constituents

### **Solar-terrestrial activity**

- UF: Extraterrestrial interactions
- RT: Climatic changes
  - Sea level changes
  - Solar activity
  - Solar radiation
- Sun
- Teleconnections
- Temperature anomalies

### Sole fisheries

USE: **Flatfish fisheries**

### Sole marks

USE: **Current marks**

### Solid gas hydrates

USE: **Gas hydrates**

### Solid hydrocarbons

USE: **Hydrocarbons**

### **Solid impurities**

- UF: Solid wastes
- BT: Pollutants
- NT: Litter
  - Plastic debris

### Tar balls

RT: Flotsam

### Solid wastes

USE: **Solid impurities**

### **Solidification**

BT: Phase changes

### RT: Freezing

Melting

### Solifluction

USE: **Creep**

### **Solitary waves**

- BT: Shallow water waves
- RT: Solitons
  - Surface gravity waves

### **Solitons**

RT: Solitary waves

### **Solubility**

- BT: Chemical properties
- NT: Gas solubility
- RT: Chemical precipitation
  - Dissolution
  - Dissolved chemicals
  - Dissolved gases
  - Leaching
  - Saturation
  - Solutes
  - Solutions
  - Solvents
  - Supersaturation

### **Solutes**

- RT: Solubility
  - Solutions
  - Solvents

### Solution

USE: **Dissolution**

### **Solutions**

- NT: Brines
  - Hydrothermal solutions
- RT: Buffers
  - Dissolution
  - Dissolved chemicals
  - Dissolved gases
  - Dissolved inorganic matter
  - Dissolved organic matter
  - Emulsions
  - Exchange capacity
  - Saturation
  - Solubility
  - Solutes
  - Solvents

### **Solvation**

NT: Hydration

### **Solvent extraction**

- BT: Separation processes
- RT: Dissolution
  - Leaching

### **Solvents**

BT: Agents

(cont'd)

## ASFA THESAURUS

### *Solvents (cont'd)*

RT: Dispersants  
Dissolution  
Oil removal  
Solubility  
Solutes  
Solutions

### Somatic mutations

USE: **Mutations**

### Sonar

UF: Asdic  
Sonar equipment  
Sonar systems  
BT: Remote sensing equipment  
NT: Active sonar  
Gloria  
Passive sonar  
RT: Acoustic equipment  
Acoustic navigation  
Electronic equipment  
Radar  
Sonar arrays  
Sonar detection  
Sonar imagery  
Sonar receivers  
Sonar targets  
Sonar transducers  
Sound propagation  
Surveying equipment  
Underwater equipment

### Sonar arrays

BT: Acoustic arrays  
RT: Sonar

### Sonar buoys

USE: **Sonobuoys**

### Sonar detection

UF: Acoustic detection  
Sonar interception  
BT: Detection  
RT: Echo integrators  
Echo ranging  
Echolocation  
Fish detection  
Sonar

### Sonar equipment

USE: **Sonar**

### Sonar imagery

BT: Acoustic imagery  
RT: Insonification  
Sonar  
Sonographs

### Sonar interception

USE: **Sonar detection**

### Sonar navigation

USE: **Acoustic navigation**

### Sonar receivers

RT: Acoustic equipment  
Sonar

### Sonar systems

USE: **Sonar**

### Sonar targets

RT: Acoustic equipment  
Sonar

### Sonar transducers

BT: Acoustic transducers  
RT: Sonar

### Sonar transponders

USE: **Acoustic transponders**

### Sonic Detection And Ranging

USE: **Sodar**

### Sonic tags

UF: Acoustic tags  
Tags (acoustic)  
BT: Tags  
RT: Acoustic equipment  
Biotelemetry  
Sound waves

### Sonic waves

USE: **Sound waves**

### Sonobuoys

UF: Sonar buoys  
BT: Buoys  
RT: Hydrophones  
Passive sonar  
Seismic equipment

### Sonograms

USE: **Sonographs**

### Sonographs

UF: Sonograms  
RT: Active sonar  
Gloria  
Insonification  
Seafloor mapping  
Side scan sonar  
Sonar imagery

### Sorption

UF: Absorption (chemistry)  
Chemisorption  
NT: Adsorption  
Desorption  
RT: Surface properties

### Sound

NT: Noise (sound)  
RT: Acoustics  
Insonification  
Sound absorption  
Sound diffraction  
Sound generators  
Sound pressure  
Sound production  
Sound propagation  
Sound reflection  
Sound refraction  
Sound scattering  
Sound sources  
Sound transmission  
Sound velocity

### Sound absorption

UF: Absorption (sound)  
Acoustic wave absorption  
BT: Absorption (physics)  
RT: Acoustic insulation  
Sound  
Sound attenuation  
Sound propagation  
Sound reflection  
Sound scattering

### Sound attenuation

UF: Acoustic wave attenuation  
RT: Acoustic properties  
Sound absorption  
Sound pressure  
Sound scattering  
Sound transmission  
Wave attenuation

### Sound backscatter

USE: **Backscatter**

### Sound baffles

USE: **Acoustic insulation**

### Sound channels

UF: Acoustic channels  
Channels (sound)  
RT: Acoustics  
Density stratification  
Sofar  
Sound velocity  
Thermal stratification

### Sound diffraction

UF: Acoustic wave diffraction  
BT: Diffraction  
RT: Sound  
Sound dispersion  
Sound propagation  
Sound scattering

## ASFA THESAURUS

### Sound dispersion

UF: Acoustic wave dispersion  
 BT: Dispersion  
 RT: Sound diffraction  
   Sound propagation  
   Sound refraction  
   Sound scattering  
   Sound velocity

Sound emission

USE: **Sound production**

Sound Fixing And Ranging

USE: **Sofar**

### Sound generation

UF: Generation (sound waves)  
 RT: Sound generators  
   Sound propagation

### Sound generators

UF: Acoustic generators  
   Acoustic radiators  
   Noise generators  
 BT: Acoustic equipment  
 NT: Pingers  
 RT: Seismic energy sources  
   Sound  
   Sound generation  
   Sound production  
   Sound sources

Sound insulation

USE: **Acoustic insulation**

### Sound intensity

UF: Acoustic intensity  
 RT: Acoustic properties  
   Sound measurement

### Sound measurement

UF: Acoustic measurement  
 BT: Measurement  
 RT: Sound intensity  
   Sound velocity

### Sound pressure

BT: Pressure  
 RT: Sound  
   Sound attenuation

### Sound production

SN: Restricted to vocalization or other sources of sound production such as stridulation by animals. Before 1982 search SOUND PRODUCTION (BIOLOGICAL)  
 UF: Sound emission  
   Sound production (biological)  
 RT: Animal communication  
   Audition

Auditory organs

Auditory stimuli

Bioacoustics

Biological noise

Echolocation

Larynx

Sound

Sound generators

Vocal organs

Vocalization behaviour

Sound production (biological)

USE: **Sound production**

### Sound propagation

UF: Acoustic wave propagation  
 RT: Internal wave effects  
   Sonar  
   Sound  
   Sound absorption  
   Sound diffraction  
   Sound dispersion  
   Sound generation  
   Sound reflection  
   Sound refraction  
   Sound scattering  
   Sound transmission  
   Sound velocity

Sound properties

USE: **Acoustic properties**

Sound ranging

USE: **Echo ranging**

Sound ray paths

USE: **Ray paths**

### Sound recorders

BT: Recording equipment  
 RT: Acoustic equipment  
   Acoustics  
   Audio recordings  
   Echosounders  
   Hydrophones  
   Oceanographic equipment

Sound recordings

USE: **Audio recordings**

### Sound reflection

UF: Acoustic wave reflection  
 BT: Reflection  
 RT: Sound  
   Sound absorption  
   Sound propagation  
   Sound scattering  
   Target strength

### Sound refraction

UF: Acoustic wave refraction  
 BT: Refraction

RT: Sound

Sound dispersion

Sound propagation

Sound scattering

Sound reverberation

USE: **Reverberation**

### Sound scattering

UF: Acoustic wave scattering  
   Scattering (sound)  
 NT: Backscatter  
   Bottom scattering  
   Forward scattering  
 RT: Reverberation  
   Sound  
   Sound absorption  
   Sound attenuation  
   Sound diffraction  
   Sound dispersion  
   Sound propagation  
   Sound reflection  
   Sound refraction

Sound scattering layers

USE: **Scattering layers**

### Sound sources

UF: Sound wave sources  
 RT: Sound  
   Sound generators

### Sound spectra

SN: Before 1986 search also ACOUSTIC SPECTRA  
 UF: Acoustic spectra  
 BT: Spectra

Sound speed

USE: **Sound velocity**

### Sound transmission

UF: Acoustic wave transmission  
 BT: Transmission  
 RT: Sound  
   Sound attenuation  
   Sound propagation

Sound transmission loss

USE: **Transmission loss**

### Sound velocity

UF: Sound speed  
   Wave velocity (sound)  
 BT: Velocity  
 RT: Acoustic impedance  
   Acoustic properties  
   Sound  
   Sound channels  
   Sound dispersion  
   Sound measurement  
   Sound propagation

## ASFA THESAURUS

Sound wave sources  
USE: **Sound sources**

### **Sound waves**

SN: Sound waves and underwater transmission of sound waves  
UF: Acoustic waves  
Sonic waves  
Underwater sound transmission  
Waves (acoustic)  
Waves (sound)  
BT: Elastic waves  
RT: Acoustic equipment  
Acoustics  
Biological noise  
Echosounding  
Ray paths  
Sonic tags  
Wave properties

Sounding (water depth)  
USE: **Bathymetry**

### **Sounding lines**

RT: Bathymetry  
Depth measurement  
Oceanographic equipment  
Soundings

### **Soundings**

SN: Charted depth of water  
UF: Bathymetric observations  
BT: Bathymetric data  
RT: Bathymetry  
Echosounding  
Sounding lines  
Water depth

### **Southern oscillation**

BT: Oscillations  
RT: Air temperature  
Atmospheric circulation  
El Nino phenomena  
Sea level  
Sea level pressure

### **Spalling**

BT: Defects  
RT: Deterioration

### **Spar buoys**

BT: Buoy hulls

### **Sparkers**

BT: Seismic energy sources

### **Spat**

BT: Molluscan larvae  
RT: Clam culture  
Cultch  
Mussel culture  
Oyster culture  
Seed (aquaculture)

Spat collection  
USE: **Seed collection**

Spatial distribution  
USE: **Geographical distribution**

Spatial isolation  
USE: **Geographical isolation**

### **Spatial variations**

UF: Variations (space)  
NT: Finestructure  
Latitudinal variations  
Microstructure  
Regional variations  
RT: Dimensions  
Horizontal distribution  
Quantitative distribution  
Vertical distribution

Spawned salmon  
USE: **Kelt**

Spawned trout  
USE: **Kelt**

Spawners  
USE: **Spawning populations**

### **Spawning**

NT: Wild spawning  
RT: Breeding  
Nursery grounds  
Reproductive behaviour  
Reproductive cycle  
Sexual reproduction  
Spawning grounds  
Spawning migrations  
Spawning populations  
Spawning seasons

### **Spawning grounds**

NT: Artificial spawning grounds  
RT: Fishing grounds  
Nursery grounds  
Redds  
Spawning  
Spawning migrations  
Spawning populations  
Spawning seasons

### **Spawning migrations**

BT: Migrations  
NT: Anadromous migrations  
Catadromous migrations  
RT: Amphihaline species  
Oceanodromous migrations  
Reproductive behaviour  
Spawning  
Spawning grounds  
Spawning populations  
Spawning seasons

### **Spawning populations**

UF: Spawners  
BT: Animal populations  
RT: Spawning  
Spawning grounds  
Spawning migrations  
Spawning seasons

### **Spawning seasons**

RT: Seasons  
Spawning  
Spawning grounds  
Spawning migrations  
Spawning populations

### **Spear fishing**

SN: Impaling fish with a spear from either above or below the water surface  
BT: Catching methods  
RT: Diving  
Sport fishing  
Wounding gear

### **Specialists**

USE: **Experts**

### **Speciation (biological)**

USE: **Biological speciation**

### **Speciation (chemical)**

USE: **Chemical speciation**

### **Species**

SN: Use of a more specific term is recommended  
BT: Taxa  
NT: Amphibiotic species  
Amphihaline species  
Associated species  
Cavernicolous species  
Commercial species  
Cosmopolite species  
Domestic species  
Dominant species  
Endemic species  
Indicator species  
Introduced species  
Migratory species  
New species  
Rare species  
Relict species  
Sedentary species  
Sessile species  
Sibling species  
RT: Aquatic organisms  
Biological speciation  
Botany  
Ecology  
Zoology

## ASFA THESAURUS

Species composition

USE: **Check lists**

### Species diversity

UF: Community diversity

Diversity index

Ecological diversity

Similarity index

RT: Biodiversity

Climax community

Community composition

Dominant species

Ecological succession

### Species extinction

UF: Extinction of species

RT: Mass extinctions

Nature conservation

Overfishing

Rare species

Species rarity

USE: **Rare species**

### Specific gravity

BT: Physical properties

RT: Density

Relative density

Weight

Specific gravity measurement

USE: **Density measurement**

### Specific heat

UF: Heat capacity

Thermal capacity

BT: Thermodynamic properties

RT: Enthalpy

Specific humidity

Thermal conductivity

### Specific humidity

BT: Humidity

RT: Relative humidity

Specific heat

### Specific volume

RT: Isopycnics

Specific volume anomalies

Thermal expansion

Volume

Water density

### Specific volume anomalies

UF: Steric anomalies

BT: Anomalies

NT: Thermosteric anomalies

RT: Dynamic height anomaly

Specific volume

Water density

### Specifications

RT: Design

Performance assessment

Prototypes

Standards

### Specificity

RT: Chemical reactions

Host preferences

Substrate preferences

### Spectra

UF: Spectrum

NT: Absorption spectra

Current spectra

Directional spectra

Energy spectra

Frequency spectra

Sound spectra

Wave spectra

### Spectral analysis

BT: Mathematical analysis

NT: Maximum entropy spectral analysis

RT: Data reduction

Frequency analysis

Signal processing

Time series analysis

Waveform analysis

### Spectral composition

BT: Optical properties

RT: Colour

Light penetration

Spectrophotometers

### Spectrochemical analysis

RT: Spectrophotometers

### Spectrophotometers

BT: Photometers

RT: Spectral composition

Spectrochemical analysis

Spectroscopic techniques

### Spectroscopic techniques

UF: Alpha spectroscopy

Spectroscopy

BT: Analytical techniques

NT: Absorption spectroscopy

Emission spectroscopy

Fluorescence spectroscopy

Gamma spectroscopy

Infrared spectroscopy

Mass spectroscopy

X-ray spectroscopy

RT: Chromatographic techniques

Colorimetric techniques

Nuclear magnetic resonance

Photometry

Spectrophotometers

Spectroscopy

USE: **Spectroscopic techniques**

Spectrum

USE: **Spectra**

### Speech distortion

RT: Communication

Speed

USE: **Velocity**

### Speedometers

SN: Instruments for measuring

vessel speed

BT: Measuring devices

### Spelaeology

SN: The study of caves, their flora and fauna

UF: Speleology

RT: Cavernicolous species

Caves

Geomorphology

Speleology

USE: **Spelaeology**

### Sperm

SN: Before 1986 search also

SPERMATOOZOA

UF: Spermatozoa

BT: Sexual cells

RT: Fecundity

Polyspermy

Semen

Spermatogenesis

Spermatophores

Sperm oils

USE: **Fish oils**

### Spermatogenesis

BT: Gametogenesis

RT: Sperm

Testes

### Spermatophores

RT: Biological fertilization

Sexual maturity

Sexual reproduction

Sperm

Spermatozoa

USE: **Sperm**

Sphene

USE: **Titanite**

### Spheres

## ASFA THESAURUS

Sphingolipids  
USE: **Complex lipids**

**Spilling waves**  
BT: Breaking waves

Spin fishing  
USE: **Sport fishing**

**Spinal cord**  
BT: Central nervous system  
RT: Vertebrae

Spiny lobster fisheries  
USE: **Lobster fisheries**

**Spits**  
BT: Beach features  
NT: Barrier spits  
RT: Deposition features

**Splash zone**  
UF: Spray zone  
RT: Corrosion  
Spray

**Spleen**  
BT: Excretory organs  
RT: Lymphocytes

**Splines**  
RT: Numerical analysis

**Spoil**  
RT: Dredge spoil  
Waste disposal sites

Spoilage (fish)  
USE: **Fish spoilage**

**Sponge culture**  
BT: Cultures  
RT: Marine aquaculture  
Sponge fisheries  
Sponges

**Sponge fisheries**  
UF: Sponge harvesting  
BT: Fisheries  
RT: Fishing by diving  
Marine fisheries  
Sponge culture  
Sponges

Sponge harvesting  
USE: **Sponge fisheries**

**Sponges**  
BT: Animal products  
RT: Sponge culture  
Sponge fisheries

**Sporangia**  
RT: Asexual reproduction  
Spores  
Sporogenesis

Spore collection  
USE: **Seed collection**

Spore formation  
USE: **Sporogenesis**

**Spores**  
UF: Aplanospores  
Ascospores  
Basidiospores  
Blastospores  
Oospores  
Zoospores  
NT: Conidia  
Resting spores  
RT: Algal culture  
Asexual reproduction  
Atmospheric particulates  
Bacteria  
Budding  
Encystment  
Fossil spores  
Fungi  
Germination  
Palynology  
Seed collection  
Sporangia  
Sporogenesis  
Sporophytes

**Sporogenesis**  
UF: Spore formation  
Sporogony  
Sporulation  
RT: Sporangia  
Spores  
Sporophytes

Sporogony  
USE: **Sporogenesis**

**Sporophytes**  
RT: Alternate reproduction  
Spores  
Sporogenesis

Sport fish  
USE: **Game fish**

**Sport fishing**  
SN: Any activities of fishing with  
recreation or water sports  
purposes  
UF: Flyfishing  
Recreational fishing  
Spin fishing  
BT: Fishing

Recreation  
NT: Angling  
RT: Fee fishing  
Game fish  
Ice fishing  
Spear fishing  
Sport fishing statistics

**Sport fishing statistics**  
SN: Including number of sport  
fishermen and catches  
UF: Creel census  
BT: Fishery statistics  
RT: Game fish  
Sport fishing

Sporulation  
USE: **Sporogenesis**

Spotted pest  
USE: **Vibriosis**

Sprat fisheries  
USE: **Clupeoid fisheries**

**Spray**  
UF: Salt spray  
Sea spray  
BT: Hydrometeors  
RT: Droplets  
Splash zone

Spray zone  
USE: **Splash zone**

Spreading  
USE: **Dispersion**

Spreading axis  
USE: **Spreading centres**

**Spreading centres**  
UF: Spreading axis  
Spreading ridges  
RT: Diverging plate boundaries  
Plate divergence  
Plate tectonics  
Seafloor spreading

Spreading rate  
USE: **Seafloor spreading**

Spreading ridges  
USE: **Spreading centres**

**Spring**  
SN: Used for the season  
UF: Spring (season)  
BT: Seasons

Spring (season)  
USE: **Spring**

## ASFA THESAURUS

### Spring streams

BT: Water springs  
RT: Ground water  
Lotic environment  
Water resources

### Spring tides

BT: Tides

Springs (water)

USE: **Water springs**

### Squalene

BT: Polyunsaturated hydrocarbons

### Squat lobster fisheries

UF: Galatheid fisheries  
Red crab fisheries  
BT: Crustacean fisheries

### Squid culture

SN: Before 1982 search MOLLUSC  
CULTURE  
BT: Mollusc culture  
RT: Cephalopod fisheries

Squid fisheries

USE: **Cephalopod fisheries**

St Elmo's fire

USE: **Atmospheric electricity**

### Stability

SN: Use of a more specific term is recommended  
NT: Sediment stability  
Ship stability  
Slope stability  
Vertical stability  
RT: Ballast  
Buoyancy  
Equilibrium  
Instability  
Monin-Obukhov length  
Stability constants  
Stabilizing  
Steady state

Stability (ecological)

USE: **Ecological balance**

### Stability constants

BT: Constants  
RT: Stability

Stability frequency

USE: **Brunt-Vaisala frequency**

Stabilization

USE: **Stabilizing**

### Stabilized platforms

BT: Instrument platforms  
NT: Towers

### Stabilizers

UF: Stabilizing fins  
RT: Ship motion  
Ship stability  
Stabilizing

### Stabilizing

UF: Stabilization  
RT: Heave compensators  
Stability  
Stabilizers

Stabilizing fins

USE: **Stabilizers**

### Stacks

BT: Coastal landforms

Staff (personnel)

USE: **Personnel**

Stages (water)

USE: **Water levels**

### Stagnant water

BT: Water  
RT: Anoxic conditions  
Dystrophic lakes  
Hypolimnion  
Sapropels  
Wetlands

### Staining

SN: Staining of tissues and organisms  
RT: Discolouration  
Dyes  
Marking

### Stainless steel

BT: Steel  
RT: Corrosion control

### Standard depths

SN: Recommended depths below sea surface at which water properties should be measured  
BT: Depth

### Standard ocean sections

SN: Routes along which oceanographic observations are made regularly over a period of time, e.g. Kola Section, Line P  
UF: Ocean data routes  
BT: Oceanographic stations  
RT: Fixed stations  
Hydrographic sections

Oceanographic data

Oceanographic surveys

Time series

### Standard sea water

BT: Sea water  
RT: Artificial seawater  
Salinity measurement

### Standard signals

RT: Communication systems  
Navigation

### Standardization

SN: Comparison of an instrument or device with a standard to determine its value in terms of an adopted unit  
NT: Calibration  
RT: Intercomparison  
Methodology  
Standards  
Terminology

### Standards

UF: Codes of practice  
NT: Codex standards  
Practical salinity scale  
RT: Acceptability  
Quality control  
Specifications  
Standardization  
Terminology

Standby vessels

USE: **Emergency vessels**

Standing crop (in number)

USE: **Population number**

Standing crop (in weight)

USE: **Biomass**

Standing stock (in number)

USE: **Population number**

Standing stock (in weight)

USE: **Biomass**

### Standing waves

UF: Clapotis  
Stationary waves  
BT: Oscillatory waves  
RT: Hydraulic jump  
Seiches  
Wave reflection

### Starch

SN: Before 1982 search  
CARBOHYDRATES  
BT: Polysaccharides

## ASFA THESAURUS

### Starvation

UF: Absolute food deficiency  
RT: Food availability  
Lethal limits  
Mortality causes  
Nutrition disorders  
Survival

State governments

USE: **Governments**

State jurisdiction

USE: **Jurisdiction**

State-of-the-art reviews

USE: **Literature reviews**

States (political)

USE: **Countries**

### Static instability

BT: Instability  
RT: Vertical stability

Static stability

USE: **Vertical stability**

Static water culture

USE: **Pond culture**

### Station keeping

RT: Deployment  
Oceanographic stations  
Recovery  
Seamanship  
Ship drift

### Station lists

BT: Data reports  
RT: Logbooks  
Oceanographic stations  
Track charts

Stationary waves

USE: **Standing waves**

Stations (oceanographic)

USE: **Oceanographic stations**

### Statistical analysis

UF: Chi square test  
Statistical methods  
Statistical tests  
Statistics (mathematics)  
Tests for significant differences  
BT: Mathematical analysis  
NT: Correlation analysis  
Frequency analysis  
Regression analysis  
Time series analysis  
Variance analysis

RT: Approximation

Biometrics  
Economic analysis  
Gaussian distribution  
Graphical analysis  
Kurtosis  
Numerical analysis  
Prediction  
Probability theory  
Random processes  
Skewness  
Statistical models  
Statistical sampling  
Statistical tables  
Statisticians  
Statistics  
Stochastic processes

Statistical charts

USE: **Statistical tables**

Statistical methods

USE: **Statistical analysis**

### Statistical models

BT: Mathematical models  
RT: Operations research  
Probability theory  
Statistical analysis  
Statistics  
System analysis

### Statistical sampling

SN: Before 1982 search  
SAMPLING (STATISTICAL)  
UF: Random sampling  
Sampling (statistical)  
Stratified sampling  
BT: Sampling  
RT: Biological sampling  
Probability theory  
Statistical analysis  
Statistical tables  
Statistics

### Statistical tables

UF: Statistical charts  
Tables (statistical)  
BT: Tables  
NT: Scatter diagrams  
RT: Graphical analysis  
Statistical analysis  
Statistical sampling  
Statistics

### Statistical tests

USE: Statistical analysis

Statisticians

BT: Scientific personnel  
RT: Statistical analysis  
Statistics

### Statistics

NT: Fishery statistics  
Wave statistics  
RT: Biometrics  
Mathematics  
Statistical analysis  
Statistical models  
Statistical sampling  
Statistical tables  
Statisticians

Statistics (mathematics)

USE: **Statistical analysis**

### Statocysts

BT: Balance organs  
RT: Statoliths

### Statoliths

RT: Statocysts

### STD observations

UF: Salinity-temperature-depth observations  
RT: CTD observations  
Hydrographic data  
STD profiles

STD probes

USE: **STD profilers**

### STD profilers

UF: Salinity-temperature-depth profilers  
STD probes  
STD sensors  
BT: Profilers  
RT: Conductivity sensors  
CTD profilers  
Salinity measuring equipment  
Salinity profiles  
STD profiles  
Thermometers

### STD profiles

UF: Salinity temperature depth profiles  
BT: Vertical profiles  
RT: Hydrographic data  
STD observations  
STD profilers  
Temperature profiles

STD sensors

USE: **STD profilers**

### Steady state

RT: Equilibrium  
Perturbations  
Stability  
Unsteady state



## ASFA THESAURUS

Steam fog  
USE: **Fog**

### Steel

BT: Ferrous alloys  
NT: Stainless steel  
RT: Metals  
Reinforced concrete  
Steel structures

Steel platforms  
USE: **Steel structures**

### Steel structures

UF: Steel platforms  
BT: Structures  
RT: Concrete structures  
Offshore structures  
Steel

Steel wire  
USE: **Wire rope**

### Steering systems

RT: Manoeuvrability  
Positioning systems  
Propulsion systems  
Ship technology  
Vehicles

### Stems

BT: Plant organs  
RT: Rhizomes  
Stomata

Stenohaline organisms  
USE: **Stenohalinity**

### Stenohalinity

UF: Stenohaline organisms  
BT: Biological properties  
RT: Euryhalinity  
Salinity tolerance

Stenothermal organisms  
USE: **Stenothermy**

### Stenothermy

UF: Stenothermal organisms  
BT: Biological properties  
RT: Eurythermy  
Temperature tolerance

### Stereophotography

BT: Photography  
RT: Aerial photography  
Depth measurement  
Surveying underwater  
Wave measurement

Steric anomalies  
USE: **Specific volume anomalies**

### Steric sea level

BT: Sea level  
RT: Isostatic sea level

### Sterility

SN: Natural or artificial sterility  
by irradiation or removal of  
reproductive organs  
RT: Animal reproductive organs  
Castration  
Ovaries  
Testes

### Sterilization

NT: Ozonation  
Ultraviolet sterilization  
RT: Ionizing radiation  
Ultraviolet radiation

### Steroids

BT: Lipids  
NT: Sterols  
RT: Drugs  
Hormones

### Sterols

UF: Sitosterols  
BT: Steroids  
NT: Cholesterol  
Fucosterol  
RT: Alcohols

### Stickwater

UF: Fish solubles  
BT: Processed fishery products  
RT: Byproducts  
Fish oils  
Fish wastes

### Still water level

USE: **Sea level**

### Stimulants (growth)

USE: **Growth regulators**

### Stimuli

SN: Stimuli and their effects on  
aquatic organisms  
NT: Auditory stimuli  
Chemical stimuli  
Electric stimuli  
Light stimuli  
Mechanical stimuli  
Tactile stimuli  
Thermal stimuli  
Visual stimuli  
RT: Behavioural responses  
Biological stress  
Learning behaviour  
Orientation behaviour  
Sense functions  
Tropism

Stinging organisms  
USE: **Noxious organisms**

### Stinging organs

UF: Nematocysts  
RT: Electric organs  
Noxious organisms  
Venom apparatus

### Stochastic models

USE: **Mathematical models**

### Stochastic processes

RT: Mathematical models  
Operations research  
Probability theory  
Random processes  
Statistical analysis  
Time series analysis

### Stock assessment

UF: Stock evaluation  
RT: Catch statistics  
Catch/effort  
Census  
Exploratory fishing  
Fishery surveys  
Landing statistics  
Population characteristics  
Population number  
Population structure  
Stock identification  
Stocks

### Stock density

USE: **Population density**

### Stock depletion

USE: **Depleted stocks**

### Stock evaluation

USE: **Stock assessment**

### Stock identification

RT: Meristic counts  
Population genetics  
Racial studies  
Stock assessment  
Subpopulations

### Stocking (organisms)

UF: Restocking  
Stocking operations  
RT: Aquaculture  
Aquaculture techniques  
Density dependence  
Ranching  
Seeding (aquaculture)  
Stocking density  
Stocking ponds  
Transplantation

## ASFA THESAURUS

### Stocking density

- UF: Crowding
- Density (stocking)
- RT: Biotic factors
- Density dependence
- Overcrowding
- Population density
- Stocking (organisms)
- Stocking ponds

### Stocking operations

USE: **Stocking (organisms)**

### Stocking ponds

- BT: Fish ponds
- RT: Stocking (organisms)
- Stocking density

### Stocks

- SN: The exploitable group of individuals of the same species existing in a particular area at a particular time
- UF: Fish stocks
- Wild fish stocks
- NT: Brood stocks
- Depleted stocks
- Shared stocks
- Unit stocks
- RT: Animal populations
- Fishery resources
- Stock assessment

### Stokes drift

USE: **Wave drift velocity**

### Stokes law

- RT: Particle settling
- Settling rate
- Viscosity

### Stokes waves

- BT: Nonlinear waves

### Stoma

USE: **Stomata**

### Stomach

- BT: Alimentary organs
- Secretory organs
- NT: Masticatory stomach
- RT: Pyloric caeca
- Stomach content

### Stomach content

- RT: Food consumption
- Gastric evacuation
- Stomach

### Stomata

- UF: Stoma
- RT: Leaves

### Plant physiology

- Respiration
- Rhizomes
- Stems
- Transpiration

### Stoneley waves

USE: **Surface seismic waves**

### Storage

- SN: Use of a more specific term is recommended; consult narrower terms listed below
- UF: Capacity (storage)
- NT: Cold storage
- Data storage
- Fish storage
- Sample storage
- RT: Storage conditions
- Storage effects
- Storage life
- Storage tanks

### Storage (fish)

USE: **Fish storage**

### Storage conditions

- UF: Storage humidity
- Storage temperature
- RT: Air temperature
- Humidity
- Storage
- Storage effects
- Storage life

### Storage effects

- SN: Any action of storage on the quality of processed fishery products, sediment samples and water samples, etc.
- RT: Quality control
- Storage
- Storage conditions
- Storage life

### Storage humidity

USE: **Storage conditions**

### Storage life

- UF: Shelf life
- RT: Quality assurance
- Storage
- Storage conditions
- Storage effects

### Storage tanks

- BT: Tanks
- RT: Storage

### Storage temperature

USE: **Storage conditions**

### Storm surge barriers

- UF: Tidal barriers
- BT: Barriers
- Coast defences
- RT: Storm surges
- Tidal barrages
- Tide-surge interaction

### Storm surge forecasts

USE: **Storm surge prediction**

### Storm surge generation

- BT: Wave generation
- RT: Storm surges

### Storm surge prediction

- UF: Storm surge forecasts
- BT: Prediction
- RT: Storm surges
- Storm tide warning services

### Storm surges

- UF: Storm tides
- Surges (storm)
- BT: Surface water waves
- Surges
- NT: Hurricane waves
- RT: Catastrophic waves
- Disasters
- Flooding
- Floods
- Meteorological tides
- Shallow water waves
- Storm surge barriers
- Storm surge generation
- Storm surge prediction
- Storm tide warning services
- Surface gravity waves
- Tide-surge interaction
- Wind setup

### Storm tide warning services

- BT: Warning services
- RT: Storm surge prediction
- Storm surges

### Storm tides

USE: **Storm surges**

### Storms

- UF: Gales
- BT: Weather hazards
- NT: Hurricanes
- Thunderstorms
- RT: Tornadoes
- Winds

### Stormwater runoff

- BT: Runoff

## ASFA THESAURUS

Straight chain saturated hydrocarbons  
USE: **Acyclic hydrocarbons**

### Strain

BT: Deformation  
RT: Elasticity  
Poisson's ratio  
Shear strength  
Strain gauges  
Stress (mechanics)  
Stress-strain relations

### Strain gauges

BT: Gauges  
RT: Strain  
Tiltmeters  
Transducers

Strain seismometers  
USE: **Seismometers**

### Strains

### Straits

BT: Coastal waters  
RT: Channels  
Tunnels  
Water exchange

Strand lines  
USE: **Strandlines**

Stranded organisms  
USE: **Stranding**

Strandflats  
USE: **Wave-cut platforms**

### Stranding

SN: Whales or other organisms washed ashore  
UF: Stranded organisms  
Whale stranding  
RT: Aquatic mammals  
Carcasses

### Strandlines

UF: Ancient shorelines  
Strand lines  
BT: Coasts  
RT: Glacial lakes  
Raised beaches  
Sea level changes  
Terraces  
Wave-cut platforms

### Stratification

NT: Density stratification  
Salinity stratification  
Thermal stratification  
RT: Baroclinic mode

Barotropic mode  
Destratification  
Layers  
Stratified flow  
Water column

Stratification (density)  
USE: **Density stratification**

Stratification (salinity)  
USE: **Salinity stratification**

Stratification (thermal)  
USE: **Thermal stratification**

### Stratified flow

BT: Fluid flow  
RT: Baroclinic mode  
Baroclinic motion  
Density flow  
Laminar flow  
Stratification  
Stratified shear flow

Stratified sampling  
USE: **Statistical sampling**

### Stratified shear flow

BT: Shear flow  
RT: Lee waves  
Stratified flow

### Stratigraphic correlation

BT: Geological correlation  
RT: Geochronometry  
Sediments  
Stratigraphy

Stratigraphic systems  
USE: **Geological time**

### Stratigraphic traps

RT: Geological equipment  
Stratigraphy

### Stratigraphy

BT: Geology  
NT: Biostratigraphy  
Chronostratigraphy  
Magnetostatigraphy  
Oxygen isotope stratigraphy  
Seismic stratigraphy  
RT: Geochronometry  
Geological time  
Isopach maps  
Marine geology  
Micropalaeontology  
Palaeoclimatology  
Palaeoecology  
Palaeontology  
Sediment structure  
Stratigraphic correlation

Stratigraphic traps

### Stratosphere

BT: Earth atmosphere  
RT: Ionosphere  
Tropopause  
Troposphere

Stream fisheries  
USE: **River fisheries**

### Stream flow

UF: River currents  
River flow  
BT: Water currents  
RT: Backwaters  
Flood control  
Fluid motion  
Hydrodynamics  
River discharge  
River engineering  
Rivers  
Stream flow rate  
Unidirectional flow  
Watersheds

### Stream flow rate

BT: Current velocity  
RT: Rivers  
Stream flow

### Stream functions

RT: Coriolis parameters  
Dynamic height  
Geostrophic equilibrium  
Streamlines

Stream valleys  
USE: **River valleys**

### Streamers

BT: Cables  
RT: Hydrophones  
Oceanographic equipment  
Seismic equipment  
Sensors

### Streamlines

BT: Map graphics  
RT: Current charts  
Current direction  
Current vectors  
Dynamic topography  
Stream functions  
Water currents

Streams  
USE: **Rivers**

### Strength

SN: Use for mechanical strength  
(cont'd)

## ASFA THESAURUS

### *Strength (cont'd)*

BT: Mechanical properties  
 NT: Bearing capacity  
     Collapse strength  
     Compressive strength  
     Shear strength  
     Tensile strength  
 RT: Yield point

### Stress (biological)

USE: **Biological stress**

### Stress

USE: **Stress (mechanics)**

### Stress (mechanics)

SN: Before 1995 search also  
     **STRESS**  
 UF: Stress  
 BT: Forces (mechanics)  
 NT: Bottom stress  
     Compression  
     Reynolds stresses  
     Shear stress  
     Tension  
     Torque  
     Wind stress  
 RT: Biological stress  
     Elasticity  
     Fatigue (materials)  
     Mechanical properties  
     Shear strength  
     Strain  
     Stress-strain relations

### Stress (physiological)

USE: **Biological stress**

### Stress corrosion

BT: Corrosion  
 RT: Embrittlement  
     Fatigue (materials)  
     Metal fatigue

### Stress-strain relations

RT: Deformation  
     Mechanical properties  
     Soil mechanics  
     Strain  
     Stress (mechanics)  
     Tensile strength

### Striated muscles

USE: **Muscles**

### Strike-slip faults

BT: Faults

### Stringers

USE: **Pipe stringers**

### Strip mine lakes

BT: Lakes  
 RT: Mine tailings  
     Pits

### Stripping analysis

UF: Anodic stripping voltammetry  
     Cathodic stripping voltammetry  
 BT: Analytical techniques

### Stromatolites

BT: Biogenic sedimentary  
     structures  
 RT: Algae  
     Algal mats

### Strontium

BT: Alkaline earth metals  
 RT: Strontium isotopes

### Strontium isotopes

BT: Isotopes  
 RT: Rubidium-strontium dating  
     Strontium

### Structural analysis

BT: Structural engineering  
 RT: Design  
     Mathematical analysis  
     Tolerances (dimensional)

### Structural basins

BT: Basins  
 NT: Forearc basins  
     Marginal basins  
 RT: Ocean basins  
     Sedimentary basins  
     Tectonics

### Structural domes

UF: Geological domes  
 BT: Folds  
 NT: Salt domes  
 RT: Diapirs

### Structural dynamics

BT: Dynamics  
 RT: Dynamic loads  
     Structural engineering

### Structural engineering

BT: Engineering  
 NT: Structural analysis  
 RT: Coastal engineering  
     Geotechnology  
     Hydraulic engineering  
     Offshore structures  
     River engineering  
     Settlement (structural)  
     Structural dynamics

### Structural geology

BT: Geology  
 RT: Geological structures  
     Tectonics

### Structural settlement

USE: **Settlement (structural)**

### Structures

SN: Use only for man-made  
     structures. Use of a more  
     specific term is recommended  
 NT: Concrete structures  
     Cylindrical structures  
     Hydraulic structures  
     Perforated structures  
     Steel structures  
 RT: Legs (structural)  
     Settlement (structural)

### Strumming

USE: **Vibration**

### Stunting

RT: Growth

### Stupefying methods

RT: Electric fishing  
     Electrified gear  
     Explosive fishing  
     Fish poisoning

### Sub-bottom profiling

SN: Profiling using systems  
     employing discrete sound  
     sources, e.g. echosounders  
 BT: Profiling  
     Seismic exploration  
 RT: Echosounding  
     Seismic reflection profiling

### Subaereal topography

BT: Topography (geology)

### Subaqueous sediment transport

USE: **Sediment transport**

### Subduction

SN: A continental plate of greater  
     density forced beneath an  
     adjoining plate  
 RT: Active margins  
     Forearc basins  
     Island arcs  
     Marginal basins  
     Obduction  
     Oceanic crust  
     Plate tectonics  
     Plates  
     Subduction zones

## ASFA THESAURUS

### Subduction zones

RT: Benioff zone  
 Converging plate boundaries  
 Oceanic trenches  
 Plate convergence  
 Plate tectonics  
 Plates  
 Subduction

Subgravel filters

USE: **Biofilters**

### Sublethal effects

SN: Effects, not immediately  
 identifiable, of harmful  
 substances on organisms  
 RT: Bioaccumulation  
 Biological poisons  
 Biotesting  
 Diseases  
 Lethal effects  
 Pollution effects  
 Pollution tolerance  
 Survival  
 Toxicity  
 Toxicity tolerance

### Sublimation

BT: Vaporization  
 RT: Ablation  
 Condensation  
 Evaporation  
 Freezing  
 Hydrometeors  
 Ice formation  
 Melting  
 Sublimation heat  
 Water vapour

### Sublimation heat

UF: Latent heat of sublimation

BT: Enthalpy

RT: Sublimation

### Sublittoral zone

BT: Littoral zone  
 RT: Nearshore sedimentation

### Submarine banks

BT: Banks (topography)  
 Submarine features  
 RT: Fishing grounds  
 Mud banks  
 Sand banks  
 Shoals

Submarine bars

USE: **Nearshore bars**

Submarine basins

USE: **Ocean basins**

### Submarine cable breaks

UF: Cable breaks  
 RT: Submarine cables

### Submarine cables

BT: Electric cables  
 RT: Cable laying  
 Cable ships  
 Coaxial cables  
 Communication systems  
 Submarine cable breaks  
 Telephone systems

### Submarine canyons

BT: Submarine features  
 RT: Continental shelves  
 Continental slope  
 Deep-sea fans  
 Submarine valleys  
 Thalweg

### Submarine cements

SN: Chemically precipitated  
 mineral material  
 UF: Cements (geology)  
 BT: Chemical sediments  
 RT: Authigenic minerals  
 Cementation

Submarine crust

USE: **Oceanic crust**

Submarine erosion

USE: **Bottom erosion**

Submarine escarpments

USE: **Submarine scarps**

Submarine fans

USE: **Deep-sea fans**

### Submarine features

UF: Bottom features  
 Submarine topographic features  
 BT: Topographic features  
 NT: Abyssal hills  
 Abyssal plains  
 Continental margins  
 Continental ridges  
 Continental rise  
 Continental shelves  
 Continental slope  
 Deep-sea channels  
 Deep-sea fans  
 Deep-sea furrows  
 Fracture zones  
 Island slope  
 Ocean basins  
 Oceanic trenches  
 Seabights  
 Seaknolls  
 Seamount chains

Seamounts

Shelf edge

Shoals

Sills

Submarine banks

Submarine canyons

Submarine plateaux

Submarine ridges

Submarine scarps

Submarine troughs

Submarine valleys

RT: Bed forms

Bottom topography

Ocean floor

Submarine volcanoes

Submarine geology

USE: **Marine geology**

Submarine ice profiles

USE: **Ice canopy**

Submarine permafrost

USE: **Permafrost**

Submarine pipelines

USE: **Pipelines**

### Submarine plateaux

UF: Ocean plateaux

BT: Plateaux

Submarine features

### Submarine ridges

UF: Oceanic ridges

BT: Ridges

Submarine features

NT: Aseismic ridges

Mid-ocean ridges

Seismic ridges

RT: Mountains

Sills

Submarine scarps

### Submarine scarps

SN: Before 1984 search also

SCARPS and UNDERWATER

ESCARPMENTS

UF: Submarine escarpments

Underwater escarpments

BT: Escarpments

Submarine features

RT: Fault scarps

Median valleys

Submarine ridges

### Submarine springs

SN: Offshore emergence of fresh  
 water

UF: Water seepages

BT: Water springs

## ASFA THESAURUS

### Submarine tankers

BT: Submarines  
RT: Tanker ships

Submarine terraces

USE: **Terraces**

Submarine topographic features

USE: **Submarine features**

Submarine trenches

USE: **Oceanic trenches**

### Submarine troughs

BT: Submarine features

### Submarine valleys

BT: Submarine features  
Valleys

RT: Drowned valleys  
Submarine canyons

### Submarine volcanoes

BT: Volcanoes  
RT: Plate boundaries  
Seamount chains  
Submarine features

### Submarines

SN: Use only for manned  
underwater vehicles designed for  
military purposes  
BT: Manned vehicles  
NT: Submarine tankers  
RT: Nuclear propulsion  
Submersibles  
Undersea warfare

### Submerged cages

UF: Bottom cages  
Midwater cages  
BT: Cages

### Submerged shorelines

UF: Ria coasts  
BT: Coasts  
RT: Drowned valleys  
Emergent shorelines  
Epeirogeny  
Fjords  
Retrogradation  
Submergence  
Transgressions

### Submergence

RT: Epeirogeny  
Retrogradation  
Submerged shorelines  
Transgressions

### Submersible platforms

SN: Towed or self-propelled

platforms supportable on  
flooded hulls

BT: Mobile platforms  
RT: Caissons

Jackup platforms

Semisubmersible platforms

### Submersibles

UF: Lockout submersibles  
Manned submersibles  
Submersibles (manned)  
BT: Manned vehicles  
NT: Wet submersibles  
RT: Deep-sea diving  
Diving bells  
Diving equipment  
Diving suits  
Free-swimming vehicles  
Mother ships  
Self-propelled vehicles  
Submarines

Submersibles (manned)

USE: **Submersibles**

Submersibles (unmanned)

USE: **Unmanned vehicles**

Suboceanic crust

USE: **Oceanic crust**

### Subpopulations

SN: Subset of a population which  
comprises a self-sustained  
genetic unit  
UF: Race  
RT: Genotypes  
Population genetics  
Population structure  
Racial studies  
Stock identification  
Unit stocks

### Subsea production systems

RT: Oil and gas production  
Wellheads

### Subsidence

SN: Use only in tectonic context  
BT: Epeirogeny  
RT: Tectonics  
Uplift

Subsistence aquaculture

USE: **Small scale aquaculture**

### Substrata

UF: Substrates  
NT: Artificial substrata  
RT: Benthic environment  
Benthos  
Ecological zonation

Sessile species

Settling behaviour

Substrate preferences

Substrate affinities

USE: **Substrate preferences**

### Substrate preferences

UF: Substrate affinities  
RT: Algal settlements  
Biological settlement  
Colonization  
Cultch  
Larval settlement  
Specificity  
Substrata

Substrates

USE: **Substrata**

Subsurface buoyancy floats

USE: **Buoyancy floats**

### Subsurface currents

BT: Water currents  
NT: Deep currents  
RT: Bottom currents  
Lake currents  
Ocean currents

### Subsurface deposits

BT: Mineral deposits  
NT: Fossil fuels  
Phosphate deposits  
RT: Deep-sea mining  
Oil sands  
Oil shale  
Ores  
Potash deposits  
Salt deposits

### Subsurface drifters

UF: Floats (subsurface)  
Subsurface floats  
BT: Drifters  
NT: Seabed drifters  
Swallow floats  
RT: Lagrangian current  
measurement

Subsurface floats

USE: **Subsurface drifters**

### Subsurface water

BT: Water masses

### Subtropical convergences

BT: Oceanic convergences  
RT: Gyres  
Oceanic fronts

## ASFA THESAURUS

Subtropical gyres

USE: **Gyres**

Subtropical jet stream

USE: **Jet stream**

**Subtropical zones**

BT: Climatic zones

Succession (ecological)

USE: **Ecological succession**

Suffocation

USE: **Asphyxia**

Sugars

USE: **Saccharides**

Sulfide deposits

USE: **Sulphide deposits**

Sulfur

USE: **Sulphur**

**Sulphate minerals**

BT: Minerals

NT: Anhydrite

Barite

Gypsum

Kainite

Polyhalite

RT: Sulphates

Sulphide deposits

**Sulphate reduction**

BT: Reduction

RT: Biogeochemistry

Sulphates

**Sulphates**

SN: Before 1982 search SULPHUR

COMPOUNDS

BT: Sulphur compounds

NT: Calcium sulphates

Magnesium sulphates

RT: Sulphate minerals

Sulphate reduction

Sulphide deposits

**Sulphide deposits**

UF: Polymetallic sulphide deposits

Sulfide deposits

BT: Chemical sediments

RT: Hydrothermal deposits

Metalliferous sediments

Seabed deposits

Sulphate minerals

Sulphates

Sulphide minerals

Sulphides

**Sulphide minerals**

BT: Minerals

NT: Greigite

Pyrite

Pyrrhotite

RT: Sulphide deposits

Sulphides

**Sulphides**

SN: Before 1982 search SULPHUR

COMPOUNDS

BT: Sulphur compounds

NT: Carbon sulphides

Hydrogen sulphide

Iron sulphides

RT: Sulphide deposits

Sulphide minerals

**Sulphites**

SN: Before 1982 search SULPHUR

COMPOUNDS

BT: Sulphur compounds

**Sulphonates**

BT: Sulphur compounds

**Sulphur**

UF: Sulfur

BT: Nonmetals

RT: Sulphur compounds

Sulphur isotopes

**Sulphur compounds**

BT: Chemical compounds

NT: Sulphates

Sulphides

Sulphites

Sulphonates

Sulphur oxides

RT: Sulphur

Sulphuric acid

Volatile compounds

**Sulphur dioxide**

BT: Sulphur oxides

**Sulphur isotopes**

BT: Isotopes

RT: Sulphur

**Sulphur oxides**

BT: Oxides

Sulphur compounds

NT: Sulphur dioxide

**Sulphuric acid**

BT: Inorganic acids

RT: Sulphur compounds

Summaries

USE: **Abstracts**

**Summer**

BT: Seasons

**Sun**

RT: Astronomy

Solar activity

Solar cells

Solar constant

Solar eclipse

Solar power

Solar radiation

Solar tides

Solar-terrestrial activity

Sun dried products

USE: **Dried products**

**Sunburn**

SN: Pathological condition ascribed

to excessive level of

ultraviolet irradiation

BT: Fish diseases

RT: Environmental diseases

Sunspots

USE: **Solar activity**

**Supersaturation**

BT: Saturation

RT: Chemical precipitation

Dissolution

Solubility

**Supply boats**

BT: Ships

RT: Support ships

Support craft

USE: **Support ships**

**Support ships**

SN: Applied to auxiliary ships of

fishing fleets and from 1981

also to vessels serving oil

rigs and other offshore

installations

UF: Support craft

Work boats

BT: Ships

NT: Factory ships

Mother ships

RT: Crane barges

Diving bells

Diving equipment

Emergency vessels

Fishing vessels

Supply boats

Tugs

Suppressing

USE: **Damping**

## ASFA THESAURUS

### Suppressors

RT: Acoustic insulation  
Damping

### Supralittoral zone

UF: Supratidal zone  
BT: Littoral zone  
RT: Sabkhas

Suprarenal glands

USE: **Adrenal glands**

Supratidal zone

USE: **Supralittoral zone**

### Surf

BT: Breaking waves  
RT: Beaches  
Surf zone  
Surfing  
Waves on beaches

### Surf beats

BT: Trapped waves

### Surf zone

UF: Breaker zone  
BT: Beach features  
RT: Breaking waves  
Longshore currents  
Nearshore dynamics  
Rip currents  
Surf  
Undertow  
Wave dissipation  
Waves on beaches

Surface active agents

USE: **Surfactants**

### Surface activity

RT: Surface properties

Surface area

USE: **Area**

Surface boundary layer

USE: **Atmospheric boundary layer**

### Surface chemistry

BT: Chemistry  
RT: Air-water exchanges  
Bubble bursting  
Foams  
Sea surface  
Surface films  
Surface microlayer  
Surface properties  
Surfactants

### Surface circulation

UF: Near-surface circulation

BT: Water circulation

RT: Lake dynamics  
Langmuir circulation  
Ocean circulation  
Surface currents  
Wind-driven circulation

### Surface clutter

UF: Sea clutter  
Sea surface clutter  
BT: Radar clutter

### Surface craft

SN: Use of a narrower term is recommended

UF: Surface vessels  
Vessels

BT: Vehicles

NT: Barges

Boats  
Dredgers  
Hovercraft  
Hydrofoils  
Inflatable craft  
Ships

RT: Defence craft

Drilling vessels  
Emergency vessels  
Fishing vessels  
Floating structures  
Mining vessels  
Protection vessels  
Research vessels  
Survey vessels  
Work platforms

### Surface currents

BT: Water currents  
NT: Contour currents  
RT: Lake currents  
Ocean currents  
Surface circulation  
Surface layers  
Wind-driven currents

### Surface drifters

BT: Drifters  
NT: Drift bottles  
Drift cards  
Drifting data buoys  
Drogues  
RT: Flotsam

### Surface Ekman layer

BT: Ekman layers  
RT: Oceanic boundary layer  
Wind-driven currents

Surface energy

USE: **Surface tension**

### Surface films

UF: Films (surface)  
Oil films  
Slicks (surface)  
NT: Monomolecular films  
RT: Capillarity  
Layers  
Oil slicks  
Sea surface  
Slicks  
Surface chemistry  
Surface microlayer  
Wave damping  
Windrows

Surface geometry (water waves)

USE: **Wave geometry**

### Surface gravity waves

BT: Water waves  
RT: Cnoidal waves  
Nonlinear waves  
Seiches  
Solitary waves  
Storm surges  
Swell  
Tsunamis  
Wind waves

Surface layer temperature

USE: **Surface temperature**

### Surface layers

BT: Water column  
NT: Near-surface layer  
Surface microlayer  
Surface mixed layer  
RT: Epilimnion  
Langmuir circulation  
Surface currents  
Surface water  
Surface water masses  
Thermocline  
Upper ocean  
Wave interactions

### Surface microlayer

BT: Surface layers  
RT: Air-water interface  
Monomolecular films  
Near-surface layer  
Sea surface  
Surface chemistry  
Surface films  
Surface radiation temperature  
Surfactants

### Surface mixed layer

BT: Mixed layer  
Surface layers  
RT: Atmospheric forcing

(cont'd)



## ASFA THESAURUS

### *Surface mixed layer (cont'd)*

Oceanic boundary layer  
Thermocline  
Thermocline decay  
Upper ocean

### Surface navigation

USE: **Navigation**

### Surface noise

SN: Wind-generated noise, wave breaking, etc.  
UF: Wind-generated noise  
BT: Ambient noise  
RT: Shipping noise

### Surface of no motion

USE: **Level of no motion**

### Surface phenomena

USE: **Surface properties**

### Surface potential

RT: Surface properties

### Surface properties

UF: Surface phenomena  
BT: Properties  
NT: Roughness  
Texture  
RT: Adhesion  
Adsorption  
Air-water interface  
Albedo  
Capillarity  
Desorption  
Emissivity  
Flotation  
Interface phenomena  
Optical properties  
Physical properties  
Sea surface  
Sorption  
Surface activity  
Surface chemistry  
Surface potential  
Surface tension  
Surfaces  
Surfactants  
Water properties  
Wave geometry  
Windrows

### Surface radiation temperature

UF: Brightness temperature  
Skin temperature  
BT: Surface temperature  
RT: Air-water interface  
Sea surface  
Surface microlayer  
Terrestrial radiation

### Surface roughness

SN: Roughness of water surface  
BT: Roughness  
RT: Drag coefficient  
Reflectance  
Wind wave generation

### Surface salinity

UF: Sea surface salinity  
Water surface salinity  
BT: Salinity  
RT: Sea surface

### Surface seismic waves

SN: Use of a more specific term is recommended  
UF: Stoneley waves  
Surface waves (seismic)  
BT: Seismic waves  
NT: Love waves  
Rayleigh waves  
RT: Ground motion

### Surface slope

UF: Sea level slope  
Sea surface slope  
Water surface slope  
RT: Dynamic topography  
Geostrophic flow  
Sea level  
Sea surface  
Surface topography  
Wave slope

### Surface stress

USE: **Wind stress**

### Surface temperature

SN: Before 1985 search also SEA  
SURFACE TEMPERATURE  
UF: Bucket temperature  
Ocean surface temperature  
Sea surface temperature  
Surface layer temperature  
Water surface temperature  
BT: Water temperature  
NT: Intake temperature  
Surface radiation temperature  
RT: Sea surface

### Surface tension

UF: Interfacial tension  
Surface energy  
BT: Tension  
RT: Capillarity  
Capillary waves  
Flotation  
Interface phenomena  
Surface properties  
Surfactants

### Surface tension waves

USE: **Capillary waves**

### Surface topography

SN: Before 1984 search also SEA  
SURFACE TOPOGRAPHY  
UF: Sea surface topography  
Water surface topography  
BT: Topography  
RT: Dynamic topography  
Geoid  
Geoid anomalies  
Marine geodesy  
Satellite altimetry  
Sea level  
Sea level measurement  
Sea surface  
Surface slope

### Surface vessels

USE: **Surface craft**

### Surface water

BT: Water  
RT: Bottom water  
Epilimnion  
Evaporation  
Shallow water  
Surface layers  
Surface water masses

### Surface water bodies

USE: **Water bodies**

### Surface water masses

BT: Water masses  
RT: Surface layers  
Surface water  
Upper ocean

### Surface water waves

UF: Ocean waves  
Surface waves (water)  
BT: Water waves  
NT: Breaking waves  
Capillary waves  
Long-crested waves  
Seiches  
Short-crested waves  
Significant waves  
Storm surges  
Swell  
Tidal waves  
Tsunamis  
Wind waves  
RT: Design wave  
Directional spectra  
Extreme waves  
Interfacial waves  
Near-surface layer  
Sea state

(cont'd)

## ASFA THESAURUS

### *Surface water waves (cont'd)*

Sea state scales  
Sea surface  
Short wave-long wave interactions  
Wave analysis  
Wave damping  
Wave geometry  
Wave measuring equipment  
Wave scouring

Surface wave recorders  
USE: **Wave recorders**

### **Surface wave-internal wave interactions**

BT: Wave-wave interaction  
RT: Dead water  
Internal wave generation  
Internal waves

Surface waves (seismic)  
USE: **Surface seismic waves**

Surface waves (water)  
USE: **Surface water waves**

### **Surfaces**

NT: Erosion surfaces  
Isobaric surfaces  
Isopycnic surfaces  
Sea surface  
RT: Area  
Boundaries  
Interfaces  
Layers  
Levels  
Surface properties

### **Surfactants**

UF: Surface active agents  
BT: Agents  
RT: Detergents  
Dispersants  
Soaps  
Surface chemistry  
Surface microlayer  
Surface properties  
Surface tension

### **Surfing**

BT: Recreation  
RT: Bathing  
Surf

### **Surge response**

BT: Dynamic response  
RT: Buoy motion effects  
Surging

Surge waves  
USE: **Surges**

Surge-tide interaction  
USE: **Tide-surge interaction**

### **Surges**

UF: Surge waves  
NT: Storm surges  
RT: Seiches  
Tides  
Wave period  
Wind waves

Surges (beach)  
USE: **Wave runoff**

Surges (seiches)  
USE: **Seiches**

Surges (storm)  
USE: **Storm surges**

### **Surging**

BT: Ship motion  
RT: Buoy motion effects  
Surge response

Surimi  
USE: **Minced products**

### **Surrounding nets**

UF: Lampara nets  
BT: Fishing nets  
NT: Purse seines  
RT: Seiners  
Seining

### **Surveillance and enforcement**

SN: Surveillance of marine space and enforcement of related laws  
UF: Law enforcement  
Ocean surveillance  
Offshore protection  
Protection (security)  
Vessel seizure  
RT: Coastguards  
Defence craft  
Detection  
Fishery protection  
Military operations  
Protection vessels  
Security

### **Survey vessels**

RT: Hydrographic surveying  
Hydrographic surveys  
Research vessels  
Surface craft

### **Surveying**

SN: Use of a more specific term is recommended  
NT: Hydrographic surveying  
Surveying underwater

Topographic surveying  
RT: Cartography  
Compasses  
Locating  
Mapping  
Sampling  
Surveying equipment  
Surveys

### **Surveying equipment**

BT: Equipment  
RT: Airborne equipment  
Diving equipment  
Photographic equipment  
Remote sensing equipment  
Sonar  
Surveying

### **Surveying underwater**

UF: Underwater surveying  
BT: Surveying  
Working underwater  
RT: Diving  
Diving surveys  
Photogrammetry  
Seafloor sampling  
Sediment sampling  
Site surveys  
Stereophotography  
Underwater exploration  
Underwater photography  
Wreck location

### **Surveys**

SN: Use of a more specific term is recommended  
NT: Aerial surveys  
Aeromagnetic surveys  
Biological surveys  
Diving surveys  
Echo surveys  
Environmental surveys  
Fishery surveys  
Geochemical surveys  
Geological surveys  
Hydrographic surveys  
Resource surveys  
Site surveys  
RT: Baseline studies  
Bench marks  
Cartography  
Census  
Cruises  
Data collections  
Expeditions  
Exploration  
Mapping  
Surveying

## ASFA THESAURUS

### Survival

UF: Survival aptitude  
Survival rate  
RT: Ecophysiology  
Escapement  
Lethal limits  
Mortality  
Mortality causes  
Starvation  
Sublethal effects  
Tolerance  
Toxicity

Survival aptitude  
USE: **Survival**

### Survival at sea

RT: Hypothermia  
Life jackets  
Lifeboats  
Marine accidents  
Search and rescue

Survival capsules  
USE: **Lifeboats**

Survival of the fittest  
USE: **Natural selection**

Survival rate  
USE: **Survival**

### Suspended inorganic matter

SN: Before 1983 search also  
INORGANIC SUSPENDED  
MATTER  
UF: Inorganic suspended matter  
BT: Inorganic matter  
NT: Colloidal clay  
RT: Suspended organic matter  
Suspended particulate matter  
Turbidity  
Water colour

### Suspended load

SN: Sediment in transport  
UF: Suspended load transport  
BT: Sediment load  
RT: Bed load  
Resuspended sediments  
Resuspension  
Sediment transport  
Suspension

Suspended load transport  
USE: **Suspended load**

Suspended matter  
USE: **Suspended particulate  
matter**

### Suspended organic matter

SN: Before 1983 search also  
ORGANIC SUSPENDED  
MATTER  
UF: Organic suspended matter  
RT: Biogenic material  
Detritus  
Sapropels  
Suspended inorganic matter  
Suspended particulate matter  
Turbidity  
Water colour

Suspended particle motion  
USE: **Particle motion**

### Suspended particles

USE: **Suspended particulate  
matter**

### Suspended particulate matter

SN: Before 1984 search also  
SUSPENDED MATTER  
UF: Particulate matter  
Particulates (aquatic)  
Suspended matter  
Suspended particles  
Suspended solids  
Suspensoids  
BT: Particulates  
NT: Resuspended sediments  
RT: Biogeochemical cycle  
Colloids  
Detrital deposits  
Detritus  
Eolian dust  
Flocculation  
Marine snow  
Nepheloid layer  
Particle concentration  
Particle counters  
Particle scattering  
Particulate flux  
River plumes  
Sediment transport  
Sediment traps  
Sedimentation  
Seston  
Sinking  
Suspended inorganic matter  
Suspended organic matter  
Suspension  
Turbidity  
Water colour

Suspended sediments  
USE: **Resuspended sediments**

Suspended solids  
USE: **Suspended particulate  
matter**

### Suspension

NT: Resuspension  
RT: Flocculation  
Particle motion  
Saltation  
Sediment transport  
Slurries  
Suspended load  
Suspended particulate matter

Suspension currents  
USE: **Turbidity currents**

Suspension feeders  
USE: **Filter feeders**

### Suspensoids

USE: **Suspended particulate  
matter**

### Sustainable yield

USE: **Potential yield**

### Sverdrup transport

BT: Transport  
RT: Mass transport  
Ocean circulation  
Wind stress  
Wind-driven circulation  
Wind-driven currents

### Swallow floats

UF: Neutrally buoyant floats  
BT: Subsurface drifters  
NT: Sofar floats  
RT: Acoustic transponders  
Pingers

### Swamp fisheries

BT: Inland fisheries  
RT: Swamps

### Swamps

BT: Wetlands  
NT: Mangrove swamps  
RT: Deltas  
Marshes  
Shallow water  
Swamp fisheries

### Swash

USE: **Wave runup**

### Swaths

RT: Seafloor mapping

### Swaying

BT: Ship motion

## ASFA THESAURUS

### **Swell**

UF: Ground swell  
BT: Surface water waves  
NT: Rollers  
RT: Beach cusps  
Surface gravity waves  
Wind waves

### **Swim bladder**

SN: Considered as hydrostatic organ  
UF: Air bladder  
Gas bladders  
BT: Bladders  
RT: Buoyancy  
Flotation  
Hydrostatic behaviour  
Swimming  
Whirling disease

### **Swimming**

SN: Restricted to aquatic organisms. For recreational swimming use BATHING. Before 1982 search LOCOMOTION  
BT: Locomotion  
RT: Fins  
Swim bladder

Swimming (recreation)

USE: **Bathing**

Swordfish fisheries

USE: **Tuna fisheries**

Syllabuses

USE: **Curricula**

### **Symbionts**

UF: Ectosymbionts  
Endosymbionts  
RT: Commensals  
Epiphytes  
Symbiosis  
Zooxanthellae

### **Symbiosis**

UF: Mutualism  
BT: Interspecific relationships  
RT: Cleaning behaviour  
Commensalism  
Epibiosis  
Parasites  
Symbionts

Sympathetic nervous system

USE: **Autonomic nervous system**

### **Sympatric populations**

SN: Populations of two or more closely related species living

in the same geographical area or having overlapped geographical areas  
RT: Allopatric populations  
Geographical distribution  
Population genetics

Symposia

USE: **Conferences**

### **Symptoms**

UF: Syndromes  
NT: Exophthalmia  
Haemorrhage  
Necroses  
RT: Disease detection  
Diseases  
Medicine

### **Synapses**

SN: Area of functional contact between two nerve cells  
RT: Nervous system  
Neurons  
Neurotransmitters

### **Synclines**

BT: Folds  
RT: Anticlines  
Geosynclines

Syndromes

USE: **Symptoms**

### **Synecology**

UF: Biosociology  
BT: Ecology  
RT: Adaptations  
Aquatic communities  
Ecological associations  
Environmental effects

Synergetic effects

USE: **Synergism**

### **Synergism**

UF: Synergetic effects  
Synergists  
RT: Antagonism  
Behaviour  
Physiology

Synergists

USE: **Synergism**

Syngamy

USE: **Biological fertilization**

### **Synonymy**

UF: Alternative name  
Synonymism  
RT: Taxonomy  
Terminology

Synonymism

USE: **Synonymy**

### **Synopsis**

SN: Comprehensive study on taxonomy and biology of a species  
UF: Monographs  
RT: Documents  
Taxonomy

### **Synthetic aperture radar**

BT: Microwave radar  
RT: Scatterometers

Synthetic fibers

USE: **Synthetic fibres**

Synthetic fibre rope

USE: **Fibre rope (synthetic)**

### **Synthetic fibres**

SN: Any types of synthetic fibres used for construction of nets, ropes, etc.  
UF: Synthetic fibers  
RT: Fibre rope (synthetic)  
Netting materials  
Plastics  
Yarns

Synthetic sea water

USE: **Artificial seawater**

### **System analysis**

SN: Including flow charting  
UF: Systems analysis  
RT: Computer programs  
Mathematical models  
Methodology  
Operations research  
Simulation  
Statistical models

Systematics

USE: **Taxonomy**

Systems analysis

USE: **System analysis**

T/S curves

USE: **T/S diagrams**

### **T/S diagrams**

UF: T/S curves  
BT: Graphs  
RT: Core layer method  
Core layers (water)  
Salinity  
Vertical profiles  
Water masses

(cont'd)

## ASFA THESAURUS

*T/S diagrams (cont'd)*

Water temperature  
Water types

Tablemounts

USE: **Guyots**

### Tables

SN: Tabulations of predicted values  
or of conversions of units. Use  
of a more specific term is  
recommended

UF: Mathematical tables

Tables (data)

Tables (mathematics)

BT: Documents

NT: Almanacs

Conversion tables

Decompression tables

Meteorological tables

Navigational tables

Oceanographic tables

Statistical tables

Tide tables

Tables (data)

USE: **Tables**

Tables (mathematics)

USE: **Tables**

Tables (statistical)

USE: **Statistical tables**

Tables (tides)

USE: **Tide tables**

Tabular bergs

USE: **Icebergs**

### Tactile functions

BT: Sense functions

RT: Tactile organs

### Tactile organs

BT: Sense organs

RT: Barbels

Tactile functions

Tactile stimuli

### Tactile stimuli

BT: Stimuli

RT: Tactile organs

Tag returns

USE: **Tagging**

Tag shedding

USE: **Tags**

### Tagging

UF: Tag returns

RT: Biotelemetry

Marking

Tagging mortality

Tags

Tracking

### Tagging mortality

BT: Mortality

RT: Tagging

### Tags

SN: Before 1982 search

TAGGING. Restricted to tags for  
aquatic organisms

UF: Tag shedding

NT: Sonic tags

RT: Tagging

Tags (acoustic)

USE: **Sonic tags**

Talks

USE: **Lectures**

Talweg

USE: **Thalweg**

Tangential stresses

USE: **Shear stress**

Tangle

USE: **Kelps**

Tangle nets

USE: **Gillnets**

### Tank cleaning

BT: Cleaning

RT: Tanks

### Tanker loading

SN: Loading/unloading operations  
for oil tankers

RT: Floating hoses

Loading buoys

Offshore operations

Tanker ships

Tanker terminals

### Tanker ships

UF: Oil tankers

Tankers

BT: Merchant ships

RT: Submarine tankers

Tanker loading

Tanker terminals

### Tanker terminals

UF: Oil terminals

Terminals (oil)

BT: Harbours

NT: Deep-water terminals

Offshore terminals

RT: Gas terminals

Offshore docking

Tanker loading

Tanker ships

Tankers

USE: **Tanker ships**

### Tanks

SN: Description of tanks, their  
construction and use

UF: Water tanks

BT: Containers

NT: Culture tanks

Evaporation tanks

Oil tanks

Storage tanks

Towing tanks

Wave tanks

RT: Tank cleaning

Tanner crab fisheries

USE: **Crab fisheries**

### Tantalum

BT: Heavy metals

Tape recordings (sound)

USE: **Audio recordings**

Taphrogeny

USE: **Rifting**

### Tar

BT: Petroleum hydrocarbons

RT: Oil sands

Petroleum residues

Tar balls

### Tar balls

BT: Solid impurities

RT: Oil pollution

Petroleum residues

Tar

Tar sands

USE: **Oil sands**

### Target cells

BT: Receptors

RT: Antibodies

Hormones

### Target strength

RT: Fish detection

Fish sizing

Sound reflection

Tarns

USE: **Glacial lakes**

## ASFA THESAURUS

### **Taste**

SN: Before 1982 search  
ORGANOLEPTIC  
PROPERTIES

UF: Flavor

Flavour  
Gustation

BT: Organoleptic properties

RT: Off flavour  
Palatability  
Taste functions  
Taste tests

### **Taste functions**

BT: Sense functions  
RT: Taste  
Taste organs

### **Taste organs**

BT: Sense organs  
RT: Chemoreceptors  
Taste functions

### **Taste tests**

UF: Flavour tests  
Palatability tests  
BT: Tests  
RT: Palatability  
Taste

Tax rates

USE: **Taxes**

### **Taxa**

NT: New taxa  
Species  
RT: Taxonomy

Taxation

USE: **Taxes**

### **Taxes**

UF: Rates and taxes  
Tax rates  
Taxation  
RT: Operational costs

### **Taxis**

BT: Orientation behaviour  
NT: Chemotaxis  
Phototaxis  
Rheotaxis

Taxonomic keys

USE: **Identification keys**

### **Taxonomists**

BT: Biologists  
RT: Algologists  
Botanists  
Carcinologists  
Entomologists  
Ichthyologists

Malacologists

Taxonomy

Zoologists

### **Taxonomy**

UF: Biological classification  
Classification (biological)  
Systematics

BT: Classification

NT: Chemotaxonomy  
Numerical taxonomy  
Serological taxonomy  
RT: Biological speciation

Botany  
Cladistics  
Holotypes  
Identification keys  
Meristic counts  
Microbiology  
Organism morphology  
Palaeontology  
Palynology  
Phylogenetics  
Phylogeny  
Synonymy  
Synopsis  
Taxa  
Taxonomists  
Typology  
Zoology

Teaching

USE: **Education**

Teaching aids

USE: **Training aids**

### **Technetium**

BT: Heavy metals  
Transition elements  
RT: Technetium compounds  
Technetium isotopes

### **Technetium compounds**

BT: Chemical compounds  
RT: Technetium

### **Technetium isotopes**

BT: Isotopes  
RT: Technetium

### **Technical feasibility**

UF: Technological feasibility  
BT: Feasibility  
RT: Technology

### **Technicians**

BT: Experts  
NT: Aquaculturists  
RT: Scientific personnel  
Technology

Technological feasibility

USE: **Technical feasibility**

Technological knowledge

USE: **Technology**

### **Technology**

UF: Technological knowledge  
NT: Appropriate technology  
Biotechnology  
Fibre optics  
Fishery technology  
Fishing technology  
Food technology  
Geotechnology  
Marine technology  
Materials technology  
Metallurgy  
Ship technology  
RT: Engineering  
Methodology  
Technical feasibility  
Technicians  
Technology transfer

### **Technology transfer**

UF: Innovation processes  
Transfer of technologies  
RT: Development projects  
International cooperation  
Technology

Tectonic plates

USE: **Plates**

### **Tectonics**

UF: Geotectonics  
BT: Geology  
NT: Epeirogeny  
Orogeny  
Plate tectonics  
Vertical tectonics  
RT: Marine geology  
Nappes  
Rifting  
Structural basins  
Structural geology  
Subsidence  
Tectonophysics

### **Tectonophysics**

UF: Geodynamics  
BT: Geophysics  
RT: Continental drift  
Earth crust  
Moho  
Tectonics

### **Teeth**

BT: Mouth parts  
RT: Radulae

## ASFA THESAURUS

Tektites

USE: **Extraterrestrial material**

Telecommunications

USE: **Communication systems**

**Teleconnections**

SN: Correlations between  
oceanographic and climatic  
events thousands of miles apart

RT: Air-sea interaction

El Nino phenomena

Ocean-atmosphere system

Solar-terrestrial activity

Temperature anomalies

Varves

Teledetection

USE: **Geosensing**

Telemetering

USE: **Telemetry**

**Telemetry**

UF: Telemetering

Telemetry systems

BT: Measurement

NT: Acoustic telemetry

Biotelemetry

Radio telemetry

RT: Communication systems

Data transmission

Monitoring systems

Satellite communication

Signal processing

Telemetry systems

USE: **Telemetry**

**Telephone systems**

SN: Before 1983 search

TELEPHONES

UF: Telephones

BT: Communication systems

RT: Submarine cables

Telephones

USE: **Telephone systems**

Television

USE: **Television systems**

**Television systems**

SN: Before 1982 search

TELEVISION

UF: Television

Video networks

BT: Communication systems

NT: Underwater television

RT: Cameras

Radio

**Telex**

BT: Communication systems

**Telluric currents**

UF: Earth currents

BT: Electric currents

RT: Coast effect

Geomagnetic field

Magnetotelluric methods

Tidal currents

**Tellurium**

BT: Heavy metals

RT: Tellurium isotopes

**Tellurium isotopes**

BT: Isotopes

RT: Tellurium

**Tellurometers**

BT: Measuring devices

**Telson**

BT: Animal appendages

**Temperate zones**

BT: Climatic zones

**Temperature**

BT: Thermodynamic properties

NT: Air temperature

Body temperature

Low temperature

Potential temperature

Sediment temperature

Temperature (air-sea)

Transition temperatures

Water temperature

RT: Heat

Heat budget

Heat transfer

Temperature anomalies

Temperature data

Temperature differences

Temperature fields

Temperature measurement

Temperature tolerance

Thermal radiation

Thermodynamics

Thermometers

Thermoreceptors

**Temperature (air-sea)**

BT: Temperature

RT: Hurricanes

**Temperature anomalies**

BT: Anomalies

RT: Solar-terrestrial activity

Teleconnections

Temperature

**Temperature charts**

SN: Charts showing distribution of  
water temperature

BT: Hydrographic charts

RT: Isotherms

Temperature data

Temperature sections

Water temperature

Temperature contours

USE: **Isotherms**

**Temperature data**

BT: Data

NT: Water temperature data

RT: Temperature

Temperature charts

Temperature differences

Temperature gradients

Temperature profiles

Temperature sections

**Temperature differences**

NT: Air-water temperature  
difference

RT: Artificial upwelling

Heat transfer

Temperature

Temperature data

**Temperature effects**

BT: Environmental effects

NT: Cold shock

Heat shock

RT: Bioclimatology

Pyrolysis

Temperature preferences

Temperature tolerance

Thermal aquaculture

Thermal stimuli

Water temperature

Winterkill

**Temperature fields**

BT: Fields

RT: Temperature

**Temperature gradients**

UF: Adiabatic lapse rates

Adiabatic temperature gradient

NT: Geothermal gradient

RT: Double diffusion

Temperature data

Temperature inversions

Temperature profiles

Thermal stratification

Thermal structure

Thermocline

Water temperature

## ASFA THESAURUS

Temperature inversion layers  
USE: **Temperature inversions**

### **Temperature inversions**

UF: Dicothermal layer  
Temperature inversion layers  
BT: Inversions  
RT: Temperature gradients  
Thermal stratification  
Vertical stability

### **Temperature maximum layer**

BT: Core layers (water)  
RT: Temperature minimum layer  
Temperature profiles

### **Temperature measurement**

UF: Temperature measuring  
BT: Measurement  
NT: Geothermal measurement  
RT: Temperature

Temperature measuring

USE: **Temperature measurement**

### **Temperature minimum layer**

BT: Core layers (water)  
RT: Temperature maximum layer  
Temperature profiles

### **Temperature preferences**

SN: Optimum temperature  
conditions for an organism  
UF: Preferred temperature  
RT: Temperature effects  
Temperature tolerance  
Thermal aquaculture

### **Temperature profiles**

BT: Vertical profiles  
RT: CTD profilers  
STD profiles  
Temperature data  
Temperature gradients  
Temperature maximum layer  
Temperature minimum layer  
Temperature sections  
Water temperature

### **Temperature sections**

BT: Hydrographic sections  
RT: Bathythermographic data  
Cold water masses  
Isotherms  
Temperature charts  
Temperature data  
Temperature profiles  
Thermal stratification  
Thermal structure  
Vertical distribution  
Water temperature

### **Temperature tolerance**

UF: Cold tolerance  
Heat tolerance  
Thermal tolerance  
BT: Tolerance  
RT: Aestivation  
Cold resistance  
Cryobiology  
Eurythermy  
Homoiothermy  
Indicator species  
Stenothermy  
Temperature  
Temperature effects  
Temperature preferences  
Thermal stimuli  
Thermoregulation

### **Templates**

SN: Pertains to underwater drilling  
RT: Drilling  
Wellheads

### **Temporal distribution**

BT: Distribution  
NT: Monthly distribution  
Seasonal distribution  
RT: Geological time  
Quantitative distribution  
Temporal variations

### **Temporal variations**

UF: Changes (time)  
Variations (time)  
NT: Long-term changes  
Periodic variations  
Short-term changes  
RT: Oscillations  
Phenology  
Temporal distribution  
Time series  
Time series analysis  
Variability

Temporary plankton

USE: **Meroplankton**

### **Temporary ponds**

SN: Natural water bodies which  
remain dry for part of the year  
UF: Ephemeral lakes  
Temporary waters  
BT: Ponds  
RT: Drought resistance  
Droughts

Temporary waters

USE: **Temporary ponds**

Tendous musculature

USE: **Muscles**

### **Tensile strength**

BT: Strength  
RT: Deformation  
Elasticity  
Poisson's ratio  
Shear strength  
Stress-strain relations  
Tension

Tensiometers

USE: **Tensometers**

### **Tension**

BT: Stress (mechanics)  
NT: Surface tension  
RT: Tensile strength

### **Tension leg platforms**

UF: Tethered buoyant platforms  
BT: Fixed platforms  
RT: Floating structures

### **Tensometers**

UF: Tensiometers  
BT: Measuring devices

### **Tentacles**

BT: Animal appendages  
NT: Sense tentacles  
RT: Polyps

### **Tephra**

BT: Volcanic rocks  
NT: Volcanic breccia  
Volcanic lapilli  
RT: Ash layers  
Clastics  
Sedimentary rocks  
Volcanic eruptions

### **Teratogens**

SN: Agents that raise the incidence  
of congenital malformations  
RT: Genetic abnormalities  
Teratology

### **Teratology**

SN: Science treating malformations  
and monstrosities of plants and  
animals. Before 1982 search  
ABNORMALITIES  
RT: Genetic abnormalities  
Teratogens

### **Terbium**

BT: Lanthanides

Terminals (oil)

USE: **Tanker terminals**



## ASFA THESAURUS

### Terminology

SN: Standardization of common or scientific names and definition of technical or biological terms

UF: Definitions  
Nomenclature

RT: Acronyms  
Glossaries  
Standardization  
Standards  
Synonymy  
Thesaurus  
Vernacular names

### Terpenes

UF: Monoterpenes  
BT: Polyunsaturated hydrocarbons  
RT: Antibiotics  
Seaweeds

### Terraces

UF: Deep-sea terraces  
Submarine terraces  
BT: Topographic features  
NT: Alluvial terraces  
RT: Beach morphology  
Fluvial morphology  
Raised beaches  
Strandlines  
Wave-cut platforms

Terrestrial atmosphere  
USE: **Earth atmosphere**

Terrestrial magnetism  
USE: **Geomagnetism**

### Terrestrial radiation

SN: Use for long wave radiation component of atmosphere  
UF: Long wave radiation  
Net terrestrial radiation  
BT: Electromagnetic radiation  
NT: Downward long wave radiation  
Upward long wave radiation  
RT: Cloud cover  
Greenhouse effect  
Infrared radiation  
Radiation balance  
Radiative transfer  
Surface radiation temperature

Terrigenous deposits  
USE: **Terrigenous sediments**

### Terrigenous sediments

UF: Terrigenous deposits  
BT: Sediments  
RT: Clastics  
Eolian deposits  
Eolian dust

Flysch  
Glacial deposits  
Turbidites  
Volcanic ash  
Volcanogenic deposits

Territorial behaviour  
USE: **Territoriality**

Territorial boundaries  
USE: **Boundaries**

Territorial seas  
USE: **Territorial waters**

### Territorial waters

UF: Territorial seas  
BT: Ocean space  
RT: Coastal states  
Contiguous zones  
Continental shelves  
Exclusive economic zone  
Fishing rights  
International boundaries

### Territoriality

SN: Animal behaviour related to defending a territory from intruders. Before 1984 search also TERRITORIAL BEHAVIOUR  
UF: Territorial behaviour  
BT: Behaviour  
RT: Aggressive behaviour  
Competitive behaviour  
Dominance hierarchies  
Home range

Territory  
USE: **Home range**

### Tertiary

SN: Before 1982 search  
TERTIARY  
PERIOD  
BT: Cenozoic  
NT: Neogene  
Palaeogene

### Test equipment

SN: Equipment used for testing apparatus and efficiency of gear  
UF: Test facilities  
BT: Equipment  
RT: Electronic equipment  
Hydraulic models  
Laboratory equipment  
Measuring devices  
Sensors  
Testing  
Tests

Towing tanks  
Wave tanks  
Wind tunnels

Test facilities  
USE: **Test equipment**

Test fishing  
USE: **Experimental fishing**

Test methods  
USE: **Tests**

### Test organisms

BT: Aquatic organisms  
RT: Bioassays  
Indicator species  
Toxicity tests

### Testes

BT: Gonads  
RT: Castration  
Fecundity  
Spermatogenesis  
Sterility

### Testing

NT: Biotesting  
Materials testing  
RT: Acceptability  
Calibration  
Inspection  
Intercomparison  
Performance assessment  
Quality control  
Test equipment  
Tests

### Tests

SN: More specific term is recommended  
UF: Laboratory tests  
Test methods  
NT: Acceptance tests  
Bioassays  
Taste tests  
Toxicity tests  
RT: Accuracy  
Analysis  
Certification  
Procedures  
Quality assurance  
Test equipment  
Testing

Tests for significant differences  
USE: **Statistical analysis**

Tethered buoyant platforms  
USE: **Tension leg platforms**

## ASFA THESAURUS

### **Tethered free-swimming vehicles**

BT: Free-swimming vehicles  
Tethered vehicles

### **Tethered vehicles**

SN: Underwater vehicles cable controlled and/or powered through a surface connecting cable. Before 1982 search TOWED BODIES

BT: Underwater vehicles  
NT: Tethered free-swimming vehicles  
RT: Diving bells  
Observation chambers  
Seabed vehicles  
Towed vehicles

### **Tetrodotoxin**

BT: Biological poisons  
RT: Neurotoxins

### **Texture**

BT: Surface properties  
NT: Sediment texture  
RT: Porosity

Thalassothermal power  
USE: **OTEC**

### **Thallium**

BT: Heavy metals

### **Thallus**

BT: Plant organs

### **Thalweg**

SN: A line connecting the lowest points along a stream bed or a valley  
UF: Talweg  
Valley line  
BT: Horizontal profiles  
RT: River valleys  
Submarine canyons

Thaw-drip

USE: **Thawing**

### **Thawing**

SN: Thawing of frozen products. For melting of ice/snow on land and in frozen soil, use ICE MELTING. For preventing and removing rime and glaze from decks, superstructures, equipment, etc., use DE-ICING  
UF: Defrosting  
Thaw-drip  
RT: Deicing  
Freezing  
Frozen products

Ice melting  
Refrigeration

### **Therapy**

UF: Disease treatment  
Treatment for diseases  
RT: Disease control  
Disease detection  
Diseases  
Drugs  
Immunology  
Medicine  
Pathology  
Pharmacology  
Prophylaxis

### **Thermal aquaculture**

UF: Heated effluent systems  
Thermal fish farming  
BT: Aquaculture techniques  
RT: Cage culture  
Fish culture  
Freshwater aquaculture  
Open systems  
Pond culture  
Shellfish culture  
Temperature effects  
Temperature preferences  
Thermal plumes  
Thermal pollution  
Warm-water aquaculture  
Waste heat

Thermal capacity

USE: **Specific heat**

### **Thermal conductivity**

UF: Conductivity (thermal)  
BT: Thermodynamic properties  
RT: Eddy conductivity  
Geothermal gradient  
Heat conduction  
Heat flow  
Ice properties  
Specific heat  
Thermal diffusivity  
Water properties

Thermal convection

USE: **Cellular convection**

### **Thermal decomposition**

BT: Degradation  
RT: River plumes  
Thermal plumes  
Thermal pollution  
Thermodynamic properties

### **Thermal diffusion**

BT: Diffusion  
RT: Thermal diffusivity  
Thermal plumes

### **Thermal diffusivity**

UF: Thermometric conductivity  
BT: Thermodynamic properties  
RT: Eddy diffusivity  
Thermal conductivity  
Thermal diffusion  
Water properties

### **Thermal domes**

RT: Thermal structure

Thermal effluents

USE: **Thermal pollution**

Thermal equilibrium

USE: **Thermodynamic equilibrium**

### **Thermal expansion**

UF: Thermal expansion coefficient  
BT: Thermodynamic properties  
RT: Specific volume  
Water properties

Thermal expansion coefficient

USE: **Thermal expansion**

Thermal fish farming

USE: **Thermal aquaculture**

### **Thermal fronts**

BT: Fronts

Thermal imagery

USE: **Infrared imagery**

Thermal infrared imagery

USE: **Infrared imagery**

### **Thermal insulation**

BT: Insulating materials

Thermal IR imagery

USE: **Infrared imagery**

### **Thermal microstructure**

SN: Variations in the distribution of temperature on a scale of 10 cm or less  
BT: Microstructure  
RT: Water temperature

### **Thermal plumes**

SN: Plumes caused by discharge of heated effluents in lakes, estuaries or marine coastal zones  
BT: Plumes  
RT: Thermal aquaculture  
Thermal decomposition  
Thermal diffusion  
Thermal pollution  
Water mixing

## ASFA THESAURUS

### Thermal pollution

UF: Thermal effluents  
 BT: Pollution  
 RT: Cooling ponds  
   Cooling water  
   Heat  
   Radioactive wastes  
   Thermal aquaculture  
   Thermal decomposition  
   Thermal plumes  
   Thermodynamic properties  
   Water pollution  
   Water temperature

### Thermal power

BT: Power from the sea  
 NT: Geothermal power  
   OTEC  
 RT: Artificial upwelling

### Thermal properties

USE: **Thermodynamic properties**

### Thermal radiation

UF: Heat radiation  
 BT: Radiations  
 RT: Electromagnetic radiation  
   Heat  
   Heat transfer  
   Solar radiation  
   Temperature  
   Thermodynamic properties  
   Ultraviolet radiation

### Thermal springs (geothermal)

USE: **Geothermal springs**

### Thermal springs (hot)

USE: **Hot springs**

### Thermal springs (hydrothermal)

USE: **Hydrothermal springs**

### Thermal stimuli

BT: Stimuli  
 RT: Body temperature  
   Temperature effects  
   Temperature tolerance  
   Thermodynamic properties  
   Thermoregulation

### Thermal stratification

UF: Stratification (thermal)  
 BT: Stratification  
 RT: Cold water masses  
   Discontinuity layers  
   Epilimnion  
   Heat budget  
   Hypolimnion  
   Intermediate water masses  
   Metalimnion  
   Physical limnology

Physical oceanography  
 Sound channels  
 Temperature gradients  
 Temperature inversions  
 Temperature sections  
 Thermal structure  
 Thermocline  
 Thermodynamic properties  
 Water circulation  
 Water temperature

### Thermal structure

RT: Atmospheric forcing  
   Hurricanes  
   Temperature gradients  
   Temperature sections  
   Thermal domes  
   Thermal stratification  
   Thermocline  
   Thermostads  
   Water temperature

### Thermal tolerance

USE: **Temperature tolerance**

### Thermistor arrays

USE: **Thermistor chains**

### Thermistor chains

UF: Thermistor arrays  
 BT: Arrays  
 RT: Oceanographic equipment  
   Thermistors

### Thermistors

RT: Electronic equipment  
   Flowmeters  
   Thermistor chains  
   XBTs

### Thermocline

BT: Discontinuity layers  
 NT: Diurnal thermocline  
   Permanent thermocline  
   Seasonal thermocline  
 RT: Clines  
   Environmental factors  
   Epilimnion  
   Hypolimnion  
   Isotherms  
   Metalimnion  
   Mixed layer depth  
   Pycnocline  
   Surface layers  
   Surface mixed layer  
   Temperature gradients  
   Thermal stratification  
   Thermal structure  
   Thermocline decay  
   Vertical distribution  
   Water column  
   Water masses

Water temperature

### Thermocline (lakes)

USE: **Metalimnion**

### Thermocline decay

UF: Erosion (thermocline)  
   Thermocline erosion  
 RT: Surface mixed layer  
   Thermocline

### Thermocline depth

USE: **Mixed layer depth**

### Thermocline erosion

USE: **Thermocline decay**

### Thermocouple arrays

BT: Arrays  
 RT: Thermocouples

### Thermocouples

RT: Electronic equipment  
   Thermocouple arrays

### Thermodynamic activity

UF: Activity coefficient  
   Chemical activity  
 BT: Thermodynamic properties  
 RT: Chemical equilibrium  
   Chemical reactions  
   Thermodynamics

### Thermodynamic equilibrium

UF: Thermal equilibrium  
 BT: Equilibrium  
   Thermodynamic properties  
 RT: Chemical equilibrium  
   Thermodynamics

### Thermodynamic properties

SN: Before 1982 search  
   THERMAL PROPERTIES  
 UF: Heat properties  
   Thermal properties  
 BT: Physical properties  
 NT: Enthalpy  
   Entropy  
   Free energy  
   Specific heat  
   Temperature  
   Thermal conductivity  
   Thermal diffusivity  
   Thermal expansion  
   Thermodynamic activity  
   Thermodynamic equilibrium  
 RT: Chemical properties  
   Electrical properties  
   Heat  
   Thermal decomposition

(cont'd)

## ASFA THESAURUS

### *Thermodynamic properties (cont'd)*

- Thermal pollution
- Thermal radiation
- Thermal stimuli
- Thermal stratification
- Thermodynamics
- Vapour pressure

### **Thermodynamics**

- BT: Physics
- RT: Adiabatic processes
  - Enthalpy
  - Entropy
  - Equations of state
  - Heat
  - Heat sinks
  - Heat transfer
  - Isothermal processes
  - Phase changes
  - Temperature
- Thermodynamic activity
- Thermodynamic equilibrium
- Thermodynamic properties

### **Thermohaline circulation**

- BT: Ocean circulation
- NT: Haline circulation
- RT: Wind-driven circulation

### **Thermometers**

- UF: Deep-sea thermometers
  - Reversing thermometers
- BT: Measuring devices
- RT: Bathythermographs
  - CTD profilers
  - STD profilers
  - Temperature

### Thermometric conductivity

USE: **Thermal diffusivity**

### Thermophototropism

USE: **Phototropism**

### **Thermoreceptors**

- BT: Receptors
- RT: Temperature
  - Thermoregulation

### **Thermoregulation**

- UF: Thermoregulators
  - Thermoregulatory behaviour
- RT: Aestivation
  - Body temperature
  - Dormancy
  - Hibernation
  - Homoiothermy
  - Poikilothermy
  - Temperature tolerance
  - Thermal stimuli
  - Thermoreceptors

### Thermoregulators

USE: **Thermoregulation**

### Thermoregulatory behaviour

USE: **Thermoregulation**

### **Thermostads**

- RT: Thermal structure
  - Water masses
  - Water temperature

### **Thermosteric anomalies**

- BT: Specific volume anomalies
- RT: In situ density
  - Isothermal processes

### **Thesaurus**

- BT: Documents
- RT: Terminology

### Thiamine

USE: **Vitamin B**

### **Thickness**

- BT: Dimensions
- NT: Crustal thickness
  - Ice thickness
- RT: Depth

### **Thixotropy**

RT: Gels

### **Tholeiite**

- BT: Basalts
- RT: Pyroxenes
  - Quartz
  - Silica
- Tholeiitic basalt

### **Tholeiitic basalt**

- BT: Basalts
- RT: Tholeiite

### **Thorax**

- BT: Body regions
- RT: Animal appendages
  - Cephalothorax

### **Thorium**

- BT: Actinides
- RT: Monazite
  - Thorium compounds
  - Thorium isotopes

### **Thorium compounds**

- BT: Actinide compounds
- RT: Thorium

### **Thorium isotopes**

- BT: Isotopes
- RT: Thorium
  - Thorium-230/thorium-232 dating

### **Thorium-230/thorium-232 dating**

- BT: Radiometric dating
- RT: Thorium isotopes

### Three phase flow

USE: **Multiphase flow**

### **Threonine**

BT: Amino acids

### **Thrust faults**

BT: Faults

### **Thrusters**

- BT: Propulsion systems
- RT: Dynamic positioning
  - Propellers
  - Shipboard equipment

### **Thunderstorms**

- BT: Storms
- RT: Lightning

### **Thymus**

- SN: Before 1982 search
  - ENDOCRINE GLANDS
- BT: Endocrine glands

### **Thyroid**

- SN: Before 1982 search
  - ENDOCRINE GLANDS
- UF: Parathyroid
- BT: Endocrine glands
- RT: Nervous system

### **Tidal amplitude**

- BT: Wave amplitude
- RT: Astronomical tides
  - Tidal power
  - Tidal range
  - Tidal waves

### **Tidal analysis**

- BT: Wave analysis
- RT: Fourier analysis
  - Harmonic analysis
  - Response analysis
  - Tidal constants
  - Tidal constituents
  - Tidal motion
  - Tidal perturbation
  - Tidal prediction
  - Tide generating potential
  - Tides
  - Time series analysis

### **Tidal barrages**

- BT: Barrages
- RT: Storm surge barriers
  - Tidal power
  - Tidal power plants

## ASFA THESAURUS

Tidal barriers  
USE: **Storm surge barriers**

### **Tidal bores**

UF: Bores  
Bores in estuaries  
Eagre  
Mascaret  
BT: Shallow water waves  
RT: Hydraulic jump

Tidal channels  
USE: **Tidal inlets**

### **Tidal charts**

UF: Corange charts  
BT: Hydrographic charts  
NT: Cotidal charts  
RT: Current charts  
Tidal prediction  
Tide tables

Tidal components  
USE: **Tidal constituents**

### **Tidal constants**

UF: Harmonic tidal constants  
Tidal harmonic constants  
RT: Harmonic functions  
Tidal analysis  
Tidal constituents

### **Tidal constituents**

SN: Before 1983 search also  
TIDAL COMPONENTS  
UF: Harmonic tidal constituents  
Partial tides  
Tidal components  
RT: Harmonic functions  
Lunar tides  
Pole tides  
Radiational tides  
Solar tides  
Tidal analysis  
Tidal constants

Tidal current charts  
USE: **Current charts**

Tidal current tables  
USE: **Tide tables**

### **Tidal currents**

UF: Tidal flow  
Tidal stream  
BT: Water currents  
NT: Ebb currents  
Flood currents  
Rotary currents  
RT: Estuarine dynamics  
Longshore currents  
Oscillatory flow

Telluric currents  
Tidal inlets  
Tidal mixing  
Tidal waves  
Tide tables  
Tides

### **Tidal curves**

UF: Marigram  
BT: Analog records  
RT: Tidal records

### **Tidal cycles**

BT: Cycles  
RT: Eastern boundary currents  
Ebb currents  
Flood currents  
Tidal models  
Tidal range  
Tides

### **Tidal datum**

BT: Datum levels  
RT: Mean sea level  
Tide gauges

### **Tidal deposits**

RT: Estuarine sedimentation  
Intertidal sedimentation  
Sediments  
Shelf sedimentation  
Trace fossils

### **Tidal dissipation**

UF: Tidal energy dissipation  
BT: Wave dissipation  
RT: Tidal energy  
Tidal friction  
Tidal power

### **Tidal dynamics**

BT: Wave dynamics  
RT: Tidal motion  
Tidal propagation  
Tidal waves  
Tides

### **Tidal effects**

BT: Environmental effects  
RT: Beach erosion  
Tides

### **Tidal elevation**

USE: **Tidal range**

### **Tidal energy**

SN: Used for the natural energy  
bound up in tidal motion of  
water bodies. For exploitation  
of that energy, e.g. for  
generating electricity, use  
TIDAL POWER

BT: Wave energy  
RT: Tidal dissipation  
Tidal friction  
Tidal power

Tidal energy dissipation  
USE: **Tidal dissipation**

Tidal environment  
USE: **Intertidal environment**

Tidal equations  
BT: Equations  
RT: Laplace equation  
Numerical analysis

### **Tidal flats**

UF: Intertidal flats  
BT: Coastal landforms  
RT: Coastal zone  
Estuarine sedimentation  
Intertidal environment  
Intertidal sedimentation  
Mud  
Mud banks  
Salt marshes  
Tides

Tidal flow  
USE: **Tidal currents**

### **Tidal friction**

BT: Friction  
RT: Bottom friction  
Earth rotation  
Tidal dissipation  
Tidal energy

Tidal harmonic constants  
USE: **Tidal constants**

### **Tidal inlets**

UF: Tidal channels  
BT: Coastal inlets  
RT: Barrier islands  
Channels  
Estuaries  
Flushing  
Tidal currents

Tidal loading  
USE: **Ocean loading**

### **Tidal mixing**

UF: Tidal stirring  
BT: Water mixing  
RT: Shelf dynamics  
Tidal currents

### **Tidal models**

BT: Mathematical models  
RT: Tidal cycles

## ASFA THESAURUS

### **Tidal motion**

SN: Only to be used for general treatment of tidal motion in hydrosphere, atmosphere and solid earth  
 BT: Motion  
 NT: Atmospheric tides  
   Earth tides  
   Tides  
 RT: Fluid motion  
   Tidal analysis  
   Tidal dynamics

### **Tidal oscillations**

BT: Oscillations  
 RT: Tidal resonance

### **Tidal perturbation**

BT: Perturbations  
 RT: Nodal tides  
   Tidal analysis

### **Tidal pools**

UF: Rock pools  
   Tide pools  
 RT: Intertidal environment

### **Tidal power**

BT: Power from the sea  
 RT: Hydroelectric power  
   Tidal amplitude  
   Tidal barrages  
   Tidal dissipation  
   Tidal energy  
   Tidal power plants  
   Tidal range  
   Tides  
   Wave power

### **Tidal power plants**

BT: Hydroelectric power plants  
 RT: Tidal barrages  
   Tidal power

### **Tidal prediction**

UF: Tide predicting machines  
   Tide prediction  
 BT: Prediction  
 RT: Tidal analysis  
   Tidal charts  
   Tide tables  
   Tides

### **Tidal propagation**

BT: Wave propagation  
 RT: Cotidal charts  
   Tidal dynamics  
   Tidal waves

### **Tidal range**

UF: Tidal elevation  
 RT: Cotidal lines

Tidal amplitude  
 Tidal cycles  
 Tidal power

### **Tidal records**

BT: Analog records  
 RT: Tidal curves  
   Tide gauges

### **Tidal resonance**

BT: Resonance  
 RT: Tidal oscillations

### **Tidal scour**

USE: **Current scouring**

### **Tidal stirring**

USE: **Tidal mixing**

### **Tidal stream**

USE: **Tidal currents**

### **Tidal waves**

SN: Not to be used for TSUNAMIS  
 UF: Poincare waves  
 BT: Surface water waves  
 RT: Intertidal environment  
   Shallow water waves  
   Tidal amplitude  
   Tidal currents  
   Tidal dynamics  
   Tidal propagation  
   Tides  
   Tsunamis

### **Tide gauges**

UF: Tide measuring equipment  
   Tide pole  
   Tide staff  
 BT: Gauges  
 NT: Deep-sea tide gauges  
 RT: Pressure sensors  
   Tidal datum  
   Tidal records

### **Tide generating forces**

USE: **Tide generating potential**

### **Tide generating potential**

UF: Tide generating forces  
   Tide potential  
 RT: Tidal analysis

### **Tide measuring equipment**

USE: **Tide gauges**

### **Tide pole**

USE: **Tide gauges**

### **Tide pools**

USE: **Tidal pools**

### **Tide potential**

USE: **Tide generating potential**

### **Tide predicting machines**

USE: **Tidal prediction**

### **Tide prediction**

USE: **Tidal prediction**

### **Tide staff**

USE: **Tide gauges**

### **Tide tables**

UF: Tables (tides)  
   Tidal current tables  
 BT: Tables  
 RT: Current charts  
   Current velocity  
   Oceanographic tables  
   Tidal charts  
   Tidal currents  
   Tidal prediction

### **Tide-surge interaction**

UF: Surge-tide interaction  
 BT: Interactions  
   Wave-wave interaction  
 RT: Shallow water tides  
   Storm surge barriers  
   Storm surges

### **Tides**

SN: Use for general papers on tidal motion in oceans, seas, lakes etc.  
 UF: Tides (hydrosphere)  
 BT: Tidal motion  
 NT: Astronomical tides  
   Barotropic tides  
   Diurnal tides  
   Estuarine tides  
   High tide  
   Long-period tides  
   Low tide  
   Lunar tides  
   Meteorological tides  
   Neap tides  
   Nodal tides  
   Ocean tides  
   Pole tides  
   Radiational tides  
   Semidiurnal tides  
   Shallow water tides  
   Solar tides  
   Spring tides  
 RT: Atmospheric tides  
   Dynamical oceanography  
   Earth tides  
   Ecological zonation  
   Moon phases  
   Ocean loading

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## ASFA THESAURUS

### *Tides (cont'd)*

Sea level  
Surges  
Tidal analysis  
Tidal currents  
Tidal cycles  
Tidal dynamics  
Tidal effects  
Tidal flats  
Tidal power  
Tidal prediction  
Tidal waves

Tides (atmospheric)  
USE: **Atmospheric tides**

Tides (earth)  
USE: **Earth tides**

Tides (hydrosphere)  
USE: **Tides**

Tie-in  
USE: **Connecting**

Till  
USE: **Boulder clay**

**Tiltmeters**  
BT: Slope indicators  
RT: Earth tides  
Geophysical equipment  
Seismology  
Strain gauges

Time measuring equipment  
USE: **Chronometers**

**Time series**  
RT: Fixed stations  
Oceanographic data  
Probability theory  
Standard ocean sections  
Temporal variations  
Time series analysis

**Time series analysis**  
BT: Statistical analysis  
RT: Correlation analysis  
Fourier analysis  
Harmonic analysis  
Spectral analysis  
Stochastic processes  
Temporal variations  
Tidal analysis  
Time series

Timing devices  
USE: **Chronometers**

**Tin**  
BT: Heavy metals

RT: Cassiterite  
Tin compounds  
Tributyltin

**Tin compounds**  
BT: Chemical compounds  
RT: Tin  
Tributyltin

**Tissue culture**  
BT: Laboratory culture  
RT: Cell culture  
Culture media  
Tissues

Tissue morphology  
USE: **Histology**

Tissue transplants  
USE: **Transplants**

**Tissues**  
SN: Aggregation of similar cells  
having the same functions  
UF: Biological tissues  
NT: Connective tissues  
Epithelia  
Nervous tissues  
RT: Anatomical structures  
Animal organs  
Calcification  
Cells  
Grafting  
Histochemistry  
Histology  
Histopathology  
Muscles  
Plant organs  
Tissue culture  
Transplants  
Ultrastructure

**Titanite**  
UF: Sphene  
BT: Silicate minerals

**Titanium**  
BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Ilmenite  
Rutile  
Titanium compounds

**Titanium compounds**  
BT: Chemical compounds  
RT: Titanium

**Titration**  
UF: Amperometric titration  
Chelatometric titration  
Potentiometric titration

Titration techniques  
BT: Analytical techniques  
RT: Chemical reactions  
Salinity measurement  
Volumetric analysis

Titration techniques  
USE: **Titration**

TOC  
USE: **Total organic carbon**

Tocopherol  
USE: **Vitamin E**

**Todorokite**  
BT: Oxide minerals

**Tolerance**  
BT: Biological properties  
NT: Exposure tolerance  
Pollution tolerance  
Salinity tolerance  
Temperature tolerance  
Toxicity tolerance  
RT: Adaptations  
Biological resistance  
Ecophysiology  
Environmental effects  
Lethal limits  
Limiting factors  
Survival

**Tolerances (dimensional)**  
RT: Design  
Structural analysis

**Tomboles**  
BT: Beach features

Tools (underwater)  
USE: **Diving tools**

**Topographic effects**  
SN: Influence of topography on  
fluid flow  
NT: Bottom topography effects  
RT: Contour currents  
Flow over surfaces  
Lee waves  
Wave trapping

**Topographic features**  
UF: Physiographic features  
Relief forms  
NT: Banks (topography)  
Beach features  
Channels  
Escarpments  
Landforms  
Submarine features  
Terraces

(cont'd)

## ASFA THESAURUS

### *Topographic features (cont'd)*

RT: Basins  
 Bed forms  
 Erosion features  
 Geomorphology  
 Glacial features  
 Physiographic provinces  
 Slopes (topography)  
 Topographic maps  
 Topography

### **Topographic maps**

BT: Maps  
 RT: Bathymetric charts  
 Geological maps  
 Topographic features  
 Topographic surveying

### Topographic planetary waves

USE: **Planetary waves**

### **Topographic surveying**

BT: Surveying  
 RT: Beach profiles  
 Topographic maps

### **Topographic waves**

BT: Water waves

### **Topography**

NT: Dynamic topography  
 Surface topography  
 Topography (geology)  
 RT: Contours  
 Mapping  
 Topographic features

### **Topography (geology)**

BT: Topography  
 NT: Bottom topography  
 Subaerial topography

### **Tornadoes**

RT: Atmospheric disturbances  
 Low pressure systems  
 Storms  
 Vortices  
 Waterspouts  
 Winds

### **Torque**

BT: Stress (mechanics)  
 RT: Shear stress

### **Total allowable catch**

UF: Allowable catch  
 RT: Catch statistics  
 Quota regulations

### **Total mortality**

UF: Total mortality coefficient  
 BT: Mortality

RT: Fishing mortality  
 Natural mortality

Total mortality coefficient

USE: **Total mortality**

### **Total organic carbon**

UF: TOC  
 BT: Organic carbon  
 RT: Dissolved organic carbon

Total oxygen demand

USE: **Oxygen demand**

Total scattering coefficient

USE: **Scattering coefficient**

### **Toughness**

UF: Durability  
 BT: Mechanical properties  
 RT: Wear

### **Tourism**

RT: Recreation

### **Tourmaline**

BT: Silicate minerals

### **Towed bodies**

RT: Towed body design  
 Towed sensors  
 Towing  
 Underwater vehicles

### **Towed body design**

BT: Design  
 RT: Ship technology  
 Towed bodies  
 Towed sensors  
 Towed vehicles  
 Towing  
 Underwater vehicles

### **Towed sensors**

UF: Fish (towed sensors)  
 BT: Sensors  
 RT: Cable depressors  
 Towed bodies  
 Towed body design  
 Towed vehicles  
 Towing lines  
 Underwater vehicles  
 Undulators

### **Towed vehicles**

SN: Unmanned underwater vehicles  
 lacking self-propulsion and  
 free-swimming capability  
 UF: Deep tow  
 BT: Unmanned vehicles  
 RT: Tethered vehicles  
 Towed body design

Towed sensors

Towing  
 Towing lines

### **Towers**

SN: Fixed structures used as  
 instrument platforms  
 BT: Stabilized platforms

### **Towing**

RT: Barges  
 Towed bodies  
 Towed body design  
 Towed vehicles  
 Towing lines  
 Tugs  
 Winches

### **Towing lines**

BT: Cables  
 RT: Cable depressors  
 Mooring lines  
 Ropes  
 Towed sensors  
 Towed vehicles  
 Towing

### **Towing tanks**

BT: Tanks  
 RT: Laboratory equipment  
 Test equipment  
 Wave tanks

### **Toxicants**

SN: Artificial poisons and their  
 effects  
 RT: Algicides  
 DDT  
 Detoxification  
 Hazardous materials  
 Heavy metals  
 Mortality causes  
 PCB  
 Pesticides  
 Phenols  
 Repellents  
 Rotenone  
 Toxicity  
 Toxicity tests  
 Toxicology

### **Toxicity**

SN: Nature and virulence of toxic  
 and poisonous substances  
 BT: Biological properties  
 NT: Cytotoxicity  
 RT: Allergic reactions  
 Antibodies  
 Biological poisons  
 Biotesting  
 Detoxification

(cont'd)



## ASFA THESAURUS

### *Toxicity (cont'd)*

- Endoparasites
- Food poisoning
- Heavy metals
- Immunology
- Lethal effects
- Lethal limits
- Pathology
- Pollution effects
- Radioactive contamination
- Red tides
- Sublethal effects
- Survival
- Toxicants
- Toxicity tests
- Toxicology

### Toxicity indices

USE: **Toxicity tests**

### **Toxicity tests**

- UF: Toxicity indices
- BT: Tests
- RT: Bioassays
  - Biotesting
  - Hazard assessment
  - Pollutant identification
  - Test organisms
  - Toxicants
  - Toxicity
  - Toxicity tolerance
- Toxicology

### **Toxicity tolerance**

- UF: Poison tolerance
- BT: Tolerance
- RT: Bioaccumulation
  - Sublethal effects
  - Toxicity tests
- Toxicology

### **Toxicology**

- UF: Drug toxicology
- NT: Ecotoxicology
- RT: Biological poisons
  - Detoxification
  - Pharmacology
  - Pollutants
  - Toxicants
  - Toxicity
  - Toxicity tests
  - Toxicity tolerance

### Toxins

USE: **Biological poisons**

### **Trace elements**

- NT: Trace metals
- RT: Chemical elements
  - Nutrients (mineral)
- Tracers

### **Trace fossils**

- BT: Biogenic sedimentary structures
- NT: Fossilized tracks
- RT: Burrows
  - Fossils
  - Palaeontology
  - Tidal deposits

### **Trace metals**

- BT: Trace elements
- RT: Metals

### **Tracer techniques**

- NT: Isotope dilution
- RT: Tracers

### **Tracers**

- NT: Dyes
  - Radioactive tracers
- RT: Isotopes
  - Sediment transport
  - Trace elements
  - Tracer techniques

### **Trachea**

- SN: Before 1982 search  
RESPIRATORY ORGANS
- UF: Tracheal system
- BT: Respiratory organs

### Tracheal system

USE: **Trachea**

### **Track charts**

- BT: Maps
- RT: Cruise reports
  - Cruise stations
  - Cruises
  - Station lists

### **Tracking**

- UF: Acoustic tracking
  - Continuous tracking
  - Fish tracking
  - Radio tracking
  - Tracking systems
  - Ultrasonic tracking
- NT: Hurricane tracking
- RT: Biotelemetry
  - Detection
  - Echo surveys
  - Identification
  - Locating
  - Tagging

### Tracking systems

USE: **Tracking**

### **Traction**

- RT: Bed load
  - Particle motion
  - Sediment transport

### Traction load

USE: **Bed load**

### **Trade**

- UF: Exports
  - Foreign trade
  - Imports
  - International trade
- RT: Commerce
  - Economics
  - Marketing
  - Pricing
  - Trade organizations

### Trade associations

USE: **Trade organizations**

### **Trade organizations**

- UF: Trade associations
- BT: Organizations
- RT: Trade

### Trade shows

USE: **Exhibitions**

### **Trade winds**

- UF: Tropical easterlies
- BT: Planetary winds
- NT: Equatorial easterlies
- RT: Coastal upwelling
  - Tropical meteorology

### **Traffic management**

- RT: Collision avoidance
  - Navigation regulations
  - Shipping
  - Shipping lanes

### **Training**

- SN: Before 1982 search  
EDUCATION
- RT: Education
  - Training aids
  - Training centres

### **Training aids**

- UF: Teaching aids
- RT: Audiovisual materials
  - Manuals
  - Simulators
  - Training

### **Training centers**

USE: **Training centres**

## ASFA THESAURUS

### Training centres

UF: Training centers  
RT: Education establishments  
Training

Training programmes

USE: **Curricula**

Trammels

USE: **Entangling nets**

### Trans-isopycnal mixing

BT: Water mixing  
RT: Double diffusive instability  
Internal wave breaking  
Kelvin-Helmholtz instability  
Mixing processes

Transboundary stocks

USE: **Shared stocks**

### Transcription

RT: Documents

### Transducer arrays

BT: Acoustic arrays  
RT: Transducers

### Transducers

BT: Equipment  
NT: Acoustic transducers  
Piezoelectric transducers  
Ultrasonic transducers  
RT: Accelerometers  
Pressure sensors  
Strain gauges  
Transducer arrays

### Transduction

RT: Bacteriophages

Transfer chambers

USE: **Decompression chambers**

Transfer of properties

USE: **Energy transfer**

Transfer of technologies

USE: **Technology transfer**

### Transferases

SN: Before 1982 search ENZYMES  
BT: Enzymes

### Transform faults

BT: Faults  
RT: Mid-ocean ridges  
Plate tectonics  
Transform plate boundaries

### Transform plate boundaries

BT: Plate boundaries

RT: Transform faults

### Transgressions

UF: Marine transgressions  
RT: Coasts  
Deglaciation  
Eustatic changes  
Regressions  
Retrogradation  
Sea level changes  
Submerged shorelines  
Submergence

Transient polymorphism

USE: **Biopolymorphism**

### Transition elements

BT: Metals  
NT: Chromium  
Cobalt  
Copper  
Gold  
Iron  
Manganese  
Molybdenum  
Nickel  
Platinum  
Scandium  
Silver  
Technetium  
Titanium  
Tungsten  
Vanadium  
Zirconium  
RT: Actinides  
Rare earths

### Transition temperatures

BT: Temperature  
NT: Boiling point  
Dew point  
Freezing point  
Melting point  
RT: Phase changes

### Translations

RT: Documents

### Transmission

NT: Light transmission  
Sound transmission  
RT: Absorption (physics)  
Attenuation  
Reflection  
Transmission loss  
Wave motion

Transmission (water waves)

USE: **Wave propagation**

### Transmission loss

UF: Absorption loss

Reflection loss

Refraction loss

Scattering loss

Sound transmission loss

RT: Transmission

Transmission of diseases

USE: **Disease transmission**

### Transmissometers

BT: Light measuring instruments  
RT: Light absorption

### Transmittance

BT: Optical properties  
NT: Beam transmittance  
RT: Attenuance  
Light attenuation  
Light penetration  
Optical water types  
Turbidity  
Water transparency

### Transparency

BT: Optical properties  
NT: Water transparency  
RT: Light absorption  
Light refraction  
Light transmission  
Turbidity

Transparency (water)

USE: **Water transparency**

Transparency meters

USE: **Beam transmittance meters**

### Transpiration

NT: Evapotranspiration  
RT: Carbon cycle  
Cuticles  
Dehydration  
Evaporation  
Photosynthesis  
Respiration  
Stomata  
Water balance  
Water content

### Transplantation

SN: Artificial introduction of organisms into habitats where they do not occur naturally.  
Before 1982 search STOCKING (ORGANISMS)  
UF: Transplantation techniques  
RT: Introduced species  
Seeding (aquaculture)  
Stocking (organisms)

Transplantation techniques

USE: **Transplantation**

## ASFA THESAURUS

### Transplants

SN: Tissue or organ grafted or transplanted to another part of the same individual or to another individual  
 UF: Biological transplantation  
   Grafts  
   Organ transplants  
   Tissue transplants  
 RT: Body organs  
   Organ removal  
   Tissues

### Transponder arrays

BT: Acoustic arrays  
 RT: Transponders

Transponder navigation

USE: **Acoustic navigation**

### Transponders

NT: Acoustic transponders  
 RT: Electronic equipment  
   Transponder arrays

### Transport

SN: Use of a more specific term is recommended. For carriage of goods and passengers, use TRANSPORTATION  
 NT: Ekman transport  
   Heat transport  
   Mass transport  
   Sediment transport  
   Sverdrup transport  
   Volume transport  
 RT: Transport processes

Transport (vehicular)

USE: **Transportation**

### Transport processes

NT: Advection  
   Diffusion  
 RT: Salt fingers  
   Transport  
   Water motion

### Transportation

SN: Carriage of goods and passengers  
 UF: Transport (vehicular)  
 NT: Air transportation  
   Marine transportation  
 RT: Cargoes  
   Vehicles

### Transuranic elements

BT: Metals  
 NT: Americium  
   Californium  
   Curium

Neptunium

Plutonium

### Transverse bars

UF: Finger bars  
 BT: Nearshore bars  
 RT: Transverse bed forms

### Transverse bed forms

BT: Bed forms  
 RT: Antidunes  
   Gravel waves  
   Ripple marks  
   Sand patches  
   Sand ripples  
   Sand waves  
   Transverse bars  
   Unidirectional flow

### Transverse mixing

BT: Water mixing

### Trap fishing

UF: Trapping  
 BT: Catching methods  
   Fishing  
 RT: Bait  
   Bait fishing  
   Crab fisheries  
   Gastropod fisheries  
   Lobster fisheries  
   Trap nets

### Trap nets

UF: Fish traps  
   Fyke nets  
   Pound nets  
   Traps  
 BT: Fishing nets  
 RT: Pots  
   Trap fishing

### Trapped waves

UF: Bottom trapped waves  
   Coastal trapped waves  
 BT: Water waves  
 NT: Edge waves  
   Kelvin waves  
   Shelf waves  
   Surf beats  
 RT: Nonlinear waves  
   Wave trapping

Trapping

USE: **Trap fishing**

Traps

USE: **Trap nets**

Trash

USE: **Litter**

### Trash fish

SN: Fish and other aquatic organisms without commercial value for human food market  
 UF: Industrial fish  
   Rough fish  
 BT: Fish

### Trawl nets

UF: Trawls  
 BT: Fishing nets  
 NT: Bottom trawls  
   Midwater trawls  
 RT: Net sounders  
   Otter boards  
   Trawlers  
   Trawling

### Trawlers

UF: Beam trawlers  
   Otter trawlers  
   Pair trawlers  
 BT: Fishing vessels  
 RT: Pelagic fisheries  
   Trawl nets  
   Trawling

### Trawling

UF: Pair trawling  
 BT: Net fishing  
 NT: Bottom trawling  
 RT: Flatfish fisheries  
   Gadoid fisheries  
   Net sounders  
   Otter boards  
   Trawl nets  
   Trawlers

Trawls

USE: **Trawl nets**

### Tray culture

BT: Aquaculture techniques  
 RT: Oyster culture

Treaties

USE: **International agreements**

Treatment for diseases

USE: **Therapy**

Trenches (oceanic)

USE: **Oceanic trenches**

### Trenches (pipelines)

RT: Ocean floor  
   Pipelines  
   Trenching

## ASFA THESAURUS

### **Trenching**

UF: Ditching  
Ploughing trenches  
RT: Burying  
Dredging  
Pipeline construction  
Ploughs  
Soil mechanics  
Trenches (pipelines)

### **Triassic**

SN: Before 1982 search TRIASSIC PERIOD  
BT: Mesozoic

### **Tributaries**

BT: Rivers  
RT: Distributaries  
Fluvial morphology

### **Tributyltin**

RT: Tin  
Tin compounds

### **Trichloroethylene**

BT: Chlorinated hydrocarbons

### **Triple junctions**

RT: Plate boundaries  
Plates

### **Tritium**

BT: Hydrogen isotopes

### **Troll lines**

USE: **Lines**

### **Trollers**

USE: **Liners**

### **Trolling**

BT: Line fishing  
RT: Liners  
Lines

### **Trophic levels**

RT: Biological production  
Carnivores  
Ecosystems  
Energy flow  
Feeding behaviour  
Food chains  
Herbivores  
Omnivores  
Trophodynamic cycle

### **Trophic relationships**

RT: Food webs  
Interspecific relationships  
Intraspecific relationships  
Trophic structure  
Trophodynamic cycle

### **Trophic status**

USE: **Trophic structure**

### **Trophic structure**

UF: Trophic status  
Trophic zonality  
RT: Ecosystems  
Trophic relationships

### **Trophic zonality**

USE: **Trophic structure**

### **Trophodynamic cycle**

UF: Food cycle  
BT: Cycles  
RT: Biogenic material  
Biological production  
Energy flow  
Feeding behaviour  
Food webs  
Heterotrophic organisms  
Nutritional requirements  
Trophic levels  
Trophic relationships

### **Tropical aquaculture**

USE: **Warm-water aquaculture**

### **Tropical climate**

USE: **Tropical environment**

### **Tropical climatology**

USE: **Tropical meteorology**

### **Tropical cyclones**

USE: **Hurricanes**

### **Tropical depressions**

SN: Before 1982 search also TROPICAL CYCLONES

UF: Tropical storms  
BT: Atmospheric depressions  
NT: Hurricanes  
RT: Atmospheric disturbances  
Easterly waves  
Tropical meteorology  
Weather forecasting

### **Tropical easterlies**

USE: **Trade winds**

### **Tropical environment**

SN: For global treatment of regional aspects of tropical waters use WORLD TROPICAL REGIONS in Geographic Authority List  
UF: Tropical climate  
BT: Environments  
RT: Dry season  
Monsoons  
Rainy season  
Tropical lakes  
Tropical meteorology

### **Tropical oceanography**

### **Tropical fish**

BT: Fish  
RT: Coral reefs  
Marine fish  
Ornamental fish

### **Tropical lakes**

BT: Lakes  
RT: Dry season  
Tropical environment

### **Tropical meteorology**

UF: Tropical climatology  
BT: Meteorology  
RT: Easterly waves  
Equatorial dynamics  
Equatorial trough  
Hurricanes  
Monsoons  
Trade winds  
Tropical depressions  
Tropical environment  
Tropical oceanography

### **Tropical oceanography**

BT: Oceanography  
RT: Equatorial circulation  
Equatorial dynamics  
Hurricane waves  
Monsoon reversal  
Monsoons  
Tropical environment  
Tropical meteorology

### **Tropical storms**

USE: **Tropical depressions**

### **Tropism**

NT: Chemotropism  
Geotropism  
Phototropism  
Rheotropism  
RT: Behaviour  
Orientation behaviour  
Stimuli

### **Tropopause**

BT: Earth atmosphere  
RT: Stratosphere  
Troposphere

### **Troposphere**

BT: Earth atmosphere  
RT: Air temperature  
Atmospheric boundary layer  
Atmospheric fronts  
Jet stream  
Stratosphere  
Tropopause  
Weather

## ASFA THESAURUS

Trout fisheries  
USE: **Salmon fisheries**

**Tsunami generation**  
BT: Wave generation  
RT: Earthquakes  
Landslides  
Tsunamis

**Tsunami prediction**  
BT: Prediction  
RT: Tsunamis  
Warning services

**Tsunamis**  
UF: Seismic sea waves  
Tunamis  
BT: Surface water waves  
RT: Catastrophic waves  
Disasters  
Earthquakes  
Edge waves  
Flooding  
Floods  
Shallow water waves  
Surface gravity waves  
Tidal waves  
Tsunami generation  
Tsunami prediction  
Volcanic eruptions  
Wave effects

**Tube dwellers**  
SN: Organisms living in a  
constructed tube  
UF: Tube dwelling organisms  
Tubicolous organisms  
BT: Aquatic organisms  
RT: Benthos

Tube dwelling organisms  
USE: **Tube dwellers**

**Tuberculosis**  
UF: Mycobacterial infections  
BT: Bacterial diseases  
RT: Fish diseases

Tubicolous organisms  
USE: **Tube dwellers**

**Tubing**  
SN: Use for tubular construction  
and structural components  
RT: Cylinders  
Node construction  
Pipes

**Tugs**  
BT: Ships  
RT: Support ships  
Towing

Tumbling disease  
USE: **Whirling disease**

Tumors  
USE: **Tumours**

**Tumours**  
UF: Carcinoma  
Hepatoma  
Neoplasms  
Sarcoma  
Tumors  
BT: Diseases  
RT: Antitumour agents  
Carcinogenesis

**Tuna fisheries**  
UF: Albacore fisheries  
Billfisheries  
Bonito fisheries  
King mackerel fisheries  
Skipjack tuna fisheries  
Swordfish fisheries  
BT: Finfish fisheries  
RT: Mackerel fisheries  
Marine fisheries  
Pelagic fisheries

Tunamis  
USE: **Tsunamis**

**Tungsten**  
BT: Heavy metals  
Transition elements  
RT: Tungsten compounds

**Tungsten compounds**  
BT: Chemical compounds  
RT: Tungsten

**Tunnels**  
RT: Bridges  
Straits

**Turbidimeters**  
UF: Turbidity sensors  
BT: Measuring devices  
RT: Light measuring instruments  
Turbidity

**Turbidites**  
BT: Clastics  
RT: Deep-sea fans  
Terrigenous sediments  
Turbidity currents

**Turbidity**  
BT: Physical properties  
RT: Absorption spectra  
Aerosols  
Colloids  
Detritus

Haze  
Light absorption  
Light attenuation  
Light scattering  
Nepheloid layer  
Particle concentration  
Particle distribution  
Particle size  
River plumes  
Suspended inorganic matter  
Suspended organic matter  
Suspended particulate matter  
Transmittance  
Transparency  
Turbidimeters  
Turbidity currents  
Turbulence  
Visibility underwater  
Water colour  
Water properties  
Water transparency

**Turbidity current structures**  
BT: Sedimentary structures  
RT: Flow structures  
Olistostromes  
Turbidity currents

**Turbidity currents**  
UF: Suspension currents  
BT: Sediment gravity flows  
RT: Bottom currents  
Cohesionless sediments  
Density flow  
Nepheloid layer  
Sediment transport  
Turbidites  
Turbidity  
Turbidity current structures

Turbidity sensors  
USE: **Turbidimeters**

**Turbines**  
BT: Motors  
RT: Power plants  
Propulsion systems

**Turbulence**  
UF: Isotropic turbulence  
NT: Atmospheric turbulence  
Oceanic turbulence  
RT: Diffusion  
Eddy conductivity  
Eddy diffusivity  
Eddy viscosity  
Reynolds stresses  
Turbidity  
Turbulent boundary layer  
Turbulent diffusion  
Turbulent flow

(cont'd)

## ASFA THESAURUS

### *Turbulence (cont'd)*

Turbulent transfer  
Vortices  
Vorticity  
Wakes  
Water circulation  
Wave interactions

### **Turbulence measurement**

BT: Flow measurement  
RT: Anemometers  
Atmospheric turbulence  
Wind measuring equipment

### **Turbulent boundary layer**

BT: Boundary layers  
RT: Laminar boundary layer  
Reynolds stresses  
Turbulence  
Turbulent flow

### **Turbulent diffusion**

UF: Eddy diffusion  
BT: Diffusion  
RT: Atmospheric diffusion  
Dye dispersion  
Eddy conduction  
Eddy diffusivity  
Eddy viscosity  
Mixing processes  
Turbulence

### **Turbulent energy**

USE: **Eddy kinetic energy**

### **Turbulent entrainment**

BT: Fluid motion  
RT: Buoyant jets  
Entrainment  
Mixing processes  
Plumes  
Salt-wedge estuaries  
Separation  
Turbulent flow

### **Turbulent exchange**

USE: **Eddy flux**

### **Turbulent flow**

BT: Fluid flow  
NT: Cavitation  
Turbulent shear flow  
RT: Channel flow  
Eddy viscosity  
Laminar flow  
Multiphase flow  
Reynolds number  
Reynolds stresses  
Turbulence  
Turbulent boundary layer  
Turbulent entrainment

### **Turbulent heat transfer**

USE: **Eddy conduction**

### **Turbulent jets**

USE: **Jets**

### **Turbulent shear flow**

BT: Shear flow  
Turbulent flow

### **Turbulent shear stresses**

USE: **Reynolds stresses**

### **Turbulent transfer**

RT: Turbulence

### **Turions**

BT: Plant reproductive structures

### **Turnover**

USE: **Overturn**

### **Turtle culture**

BT: Reptile culture  
RT: Turtle fisheries

### **Turtle fisheries**

BT: Fisheries  
RT: Turtle culture

### **Twine**

USE: **Yarns**

### **Two phase flow**

USE: **Multiphase flow**

### **Type localities**

SN: Specific geographic area in which the type specimens were first collected  
RT: Distribution records  
Holotypes  
New taxa

### **Type specimens**

USE: **Holotypes**

### **Typhoons**

USE: **Hurricanes**

### **Typology**

SN: The study of types as of constitutional types  
RT: Ecotypes  
Genotypes  
Holotypes  
Phenotypes  
Taxonomy

### **Tyrosine**

BT: Amino acids

### **UDN**

USE: **Ulcerative dermal necrosis**

### **Ulcer disease**

USE: **Vibriosis**

### **Ulcerative dermal necrosis**

UF: UDN  
BT: Fish diseases  
Necroses

### **Ultramafic rocks**

BT: Igneous rocks  
NT: Ophiolites  
Peridotite

### **Ultrasonic devices**

UF: Ultrasonic equipment  
NT: Ultrasonic transducers  
RT: Ultrasonics

### **Ultrasonic equipment**

USE: **Ultrasonic devices**

### **Ultrasonic testing**

USE: **Nondestructive testing**

### **Ultrasonic tracking**

USE: **Tracking**

### **Ultrasonic transducers**

BT: Transducers  
Ultrasonic devices

### **Ultrasonics**

BT: Acoustics  
RT: Ultrasonic devices

### **Ultrastructure**

UF: Fine structure (biology)  
Finestructure (biology)  
RT: Biotechnology  
Cells  
Electron microscopy  
Tissues

### **Ultraviolet radiation**

SN: Wavelength range between 0.02-0.4 microns  
BT: Electromagnetic radiation  
RT: Light  
Ozone  
Solar radiation  
Sterilization  
Thermal radiation  
Ultraviolet sterilization

## ASFA THESAURUS

### Ultraviolet sterilization

SN: The sterilization of water by passing it near sources of ultraviolet radiation  
BT: Sterilization  
RT: Ultraviolet radiation

### Umbilicals

BT: Cables  
RT: Diving suits  
Electric cables  
Life support systems

### Uncontrolled spawning

USE: **Wild spawning**

### Unconventional resources

UF: Nonconventional resources  
BT: Natural resources  
RT: Food resources  
Living resources  
Potential resources  
Potential yield

### Under keel clearance

USE: **Keel clearance**

### Under-ice environment

USE: **Epontic environment**

### Under-ice organisms

USE: **Epontic organisms**

### Undercurrents

BT: Water currents  
NT: Equatorial undercurrents  
Western boundary undercurrents  
RT: Coastal countercurrents  
Ocean currents

### Underdeveloped countries

USE: **Developing countries**

### Underground water

USE: **Ground water**

### Underkeel clearance

USE: **Keel clearance**

### Undersea warfare

UF: Anti-submarine warfare  
RT: Military oceanography  
Military operations  
Seabed conventions  
Submarines  
Underwater explosions

### Undertow

BT: Nearshore currents  
RT: Breakers  
Rip currents  
Surf zone

### Waves on beaches

### Underutilized species

SN: Commercial species which are not fully utilized  
BT: Commercial species

### Underwater acoustics

USE: **Acoustics**

### Underwater ambient noise

USE: **Ambient noise**

### Underwater biotelemetry

USE: **Biotelemetry**

### Underwater cameras

BT: Cameras  
Underwater equipment  
RT: Underwater photography  
Underwater television  
Visibility underwater

### Underwater connectors

USE: **Connectors**

### Underwater engineering

USE: **Offshore engineering**

### Underwater equipment

BT: Equipment  
NT: Underwater cameras  
RT: Diving tools  
Sonar  
Underwater exploitation  
Underwater vehicles  
Working underwater

### Underwater erosion

USE: **Bottom erosion**

### Underwater escarpments

USE: **Submarine scarps**

### Underwater excavation

USE: **Excavation underwater**

### Underwater exploitation

BT: Exploitation  
RT: Exclusive economic zone  
Mineral resources  
Offshore engineering  
Oil wells  
Underwater equipment

### Underwater exploration

BT: Exploration  
RT: Bathyspheres  
Coring  
Deep-sea diving  
Diving  
Diving surveys

### Drilling

Geographical exploration  
Mineral resources  
Offshore engineering  
Seafloor mapping  
Surveying underwater  
Underwater photography  
Underwater television  
Underwater vehicles

### Underwater explosions

BT: Explosions  
RT: Nuclear explosions  
Undersea warfare

### Underwater habitats

SN: Seabed chambers for human occupation. Before 1982 search  
**ARTIFICIAL HABITATS**  
UF: Artificial habitats  
Chambers (one-atmosphere)  
Habitats (artificial)  
Human underwater habitats  
Seabed habitats  
BT: Habitat  
Underwater structures  
RT: Accommodation  
Caissons  
Diving bells  
Work platforms  
Working underwater

### Underwater ice profiles

USE: **Ice canopy**

### Underwater inspection

BT: Inspection

### Underwater light sources

USE: **Light sources**

### Underwater medicine

UF: Diving medicine  
BT: Medicine  
RT: Bone necrosis  
Decompression sickness  
Diving  
Diving physiology  
Hypercapnia  
Hyperthermia  
Hypothermia  
Hypoxia  
Nitrogen narcosis

### Underwater navigation

USE: **Navigation underwater**

### Underwater noise

BT: Noise (sound)  
NT: Reverberation  
RT: Ambient noise

## ASFA THESAURUS

### Underwater object location

BT: Locating  
RT: Search and rescue  
Wreck location

### Underwater photographs

BT: Photographs  
NT: Bottom photographs  
RT: Underwater photography

### Underwater photography

BT: Photography  
RT: Surveying underwater  
Underwater cameras  
Underwater exploration  
Underwater photographs  
Underwater television  
Visibility underwater  
Working underwater

### Underwater propulsion

UF: Underwater propulsion systems  
RT: Nuclear propulsion  
Propulsion systems  
Underwater vehicles

### Underwater propulsion systems

USE: **Underwater propulsion**

### Underwater research vessels

USE: **Underwater vehicles**

### Underwater shelters

USE: **Shelters**

### Underwater sound transmission

USE: **Sound waves**

### Underwater structures

SN: Work platforms and equipment  
located and fixed to seabed  
BT: Offshore structures  
NT: Pipelines  
Underwater habitats  
Wellheads  
RT: Guide lines  
Offshore engineering  
Oil tanks  
Work platforms  
Working underwater

### Underwater surveying

USE: **Surveying underwater**

### Underwater television

BT: Television systems  
RT: Underwater cameras  
Underwater exploration  
Underwater photography  
Visibility underwater

### Underwater tools

USE: **Diving tools**

### Underwater topography

USE: **Bottom topography**

### Underwater tracking systems

USE: **Acoustic tracking systems**

### Underwater vehicles

SN: Before 1982 search  
UNDERWATER RESEARCH  
VESSELS  
UF: Underwater research vessels  
BT: Vehicles  
NT: Free-swimming vehicles  
Manned vehicles  
Self-propelled vehicles  
Tethered vehicles  
Unmanned vehicles  
RT: Ballast tanks  
Defence craft  
Manipulators  
Mother ships  
Ship technology  
Towed bodies  
Towed body design  
Towed sensors  
Underwater equipment  
Underwater exploration  
Underwater propulsion  
Work platforms

### Underwater viewing

USE: **Viewing underwater**

### Underwater visibility

USE: **Visibility underwater**

### Underwater wellheads

USE: **Wellheads**

### Underwater work

USE: **Working underwater**

### Undulators

UF: Batfish  
RT: Oceanographic equipment  
Towed sensors

### Unidirectional flow

BT: Fluid motion  
RT: Channel flow  
Oscillatory flow  
Residual flow  
Stream flow  
Transverse bed forms

### Unit stocks

SN: Self-sustaining genetic  
entities  
BT: Stocks

### RT: Population genetics

Subpopulations

### Universities

USE: **Education establishments**

### Unloading

USE: **Fish handling**

### Unmanned submersibles

USE: **Unmanned vehicles**

### Unmanned vehicles

SN: Unmanned underwater vehicles  
capable of self-propulsion and  
manoeuvrability  
UF: Remotely operated vehicles  
ROVs  
Submersibles (unmanned)  
Unmanned submersibles  
BT: Underwater vehicles  
NT: Seabed vehicles  
Towed vehicles  
Untethered vehicles  
RT: Manned vehicles

### Unsaturated hydrocarbons

BT: Hydrocarbons  
NT: Alkenes  
Alkynes  
Aromatic hydrocarbons  
Polyunsaturated hydrocarbons

### Unsteady flow

BT: Fluid motion  
RT: Barotropic instability  
Laminar flow  
Multiphase flow

### Unsteady state

RT: Equilibrium  
Instability  
Steady state

### Untethered vehicles

SN: Self-propelled, self-powered  
unmanned underwater vehicles  
controlled by acoustic command  
BT: Self-propelled vehicles  
Unmanned vehicles  
RT: Free-swimming vehicles  
Remote control  
Wet submersibles

### Uplift

BT: Epeirogeny  
RT: Emergent shorelines  
Progradation  
Raised beaches  
Regressions  
Subsidence



## ASFA THESAURUS

### Upper atmosphere

BT: Earth atmosphere  
NT: Ionosphere

Upper layers (lakes)

USE: **Epilimnion**

Upper layers (ocean)

USE: **Upper ocean**

### Upper mantle

UF: Outer mantle  
BT: Earth mantle  
RT: Asthenosphere  
Lithosphere  
Lower mantle

### Upper ocean

SN: The ocean above and including the permanent thermocline  
UF: Upper layers (ocean)  
RT: Oceanic boundary layer  
Oceans  
Permanent thermocline  
Surface layers  
Surface mixed layer  
Surface water masses

Upper tertiary

USE: **Neogene**

Upstream migrations

USE: **Anadromous migrations**

### Uptake

### Upward irradiance

BT: Irradiance

### Upward long wave radiation

BT: Terrestrial radiation

### Upwelling

BT: Vertical water movement  
NT: Artificial upwelling  
Coastal upwelling  
Ekman transport  
Equatorial upwelling  
RT: Coastal currents  
Divergence  
Divergence zones  
Downwelling  
Ekman pumping  
Fog  
Mixing processes  
Nearshore currents  
Oceanic divergences  
Vertical advection  
Water circulation  
Water mixing  
Wind-driven currents  
Winds

### Uranium

BT: Actinides  
RT: Radioactivity  
Uranium compounds  
Uranium isotopes

### Uranium compounds

BT: Actinide compounds  
Chemical compounds  
RT: Uranium

### Uranium isotopes

BT: Isotopes  
RT: Uranium  
Uranium-234/uranium-238 ratio  
Uranium-helium dating

### Uranium-234/uranium-238 ratio

RT: Radiometric dating  
Uranium isotopes

### Uranium-helium dating

BT: Radiometric dating  
RT: Helium isotopes  
Uranium isotopes

Urban development

USE: **Urbanization**

### Urban runoff

BT: Runoff

### Urbanization

UF: Development (urban)  
Urban development  
RT: Rural development

### Urea

BT: Organic compounds  
RT: Ammonia  
Nitrogen compounds  
Organic fertilizers  
Urine

### Urinary system

BT: Anatomical structures  
RT: Cloaca  
Kidneys  
Urine

### Urine

BT: Body fluids  
Excretory products  
RT: Kidneys  
Urea  
Urinary system  
Water balance

Usage

USE: **Utilization**

Use of water

USE: **Water use**

### Utilization

UF: Application  
Usage  
NT: Plant utilization  
Waste utilization  
Water use

### Vaccination

BT: Immunization  
RT: Disease resistance  
Immunoprecipitation  
Infectious diseases  
Vaccines

### Vaccines

UF: Bacterial vaccines  
Fungal vaccines  
Viral vaccines  
BT: Drugs  
NT: Bacterins  
RT: Antibodies  
Antigens  
Immunoprecipitation  
Vaccination

### Valine

BT: Amino acids

Valley line

USE: **Thalweg**

### Valleys

BT: Landforms  
NT: Drowned valleys  
Rift valleys  
River valleys  
Submarine valleys  
RT: Channels  
Fracture zones  
Oceanic trenches  
Watersheds

### Valliculture

SN: Lagoon culture where sluices open and close the mouth of the lagoon  
BT: Aquaculture techniques  
RT: Brackishwater aquaculture  
Extensive culture  
Lagoons  
Pond culture

### Vanadium

BT: Heavy metals  
Transition elements  
RT: Ferromanganese nodules  
Vanadium compounds

## ASFA THESAURUS

### **Vanadium compounds**

BT: Chemical compounds  
RT: Vanadium

### **Vane devices**

BT: Geological equipment  
RT: Shear strength  
    Vane shear testing

### **Vane shear testing**

RT: Cohesive sediments  
    Shear strength  
    Vane devices

### **Vanes**

UF: Current meter vanes  
    Wind vanes  
RT: Direction indicators

### **Vaporization**

BT: Phase changes  
NT: Evaporation  
    Sublimation  
RT: Cavitation  
    Vaporization heat

### **Vaporization heat**

UF: Latent heat of vaporization  
BT: Enthalpy  
RT: Condensation  
    Vaporization

### **Vapour pressure**

UF: Saturation vapour pressure  
    Vapour tension  
    Water vapour pressure  
BT: Pressure  
RT: Bowen ratio  
    Condensation  
    Humidity  
    Thermodynamic properties  
    Water vapour

### **Vapour tension**

USE: **Vapour pressure**

### **Variability**

RT: Equilibrium  
    Nonlinearity  
    Temporal variations  
    Wind constancy

### **Variance analysis**

SN: Includes covariance  
BT: Statistical analysis  
NT: Multivariate analysis  
RT: Correlation analysis  
    Numerical taxonomy  
    Regression analysis

### **Variations (magnetic)**

USE: **Magnetic variations**

### **Variations (phenotypic)**

USE: **Phenotypic variations**

### **Variations (space)**

USE: **Spatial variations**

### **Variations (time)**

USE: **Temporal variations**

### **Varves**

BT: Bedding structures  
RT: Glacial deposits  
    Teleconnections

### **Vascular system**

USE: **Circulatory system**

### **Vectors**

NT: Biological vectors  
    Curl (vectors)  
    Current vectors  
    Wind vectors  
RT: Hodographs  
    Velocity

### **Vegetal fossils**

UF: Plant fossils  
BT: Fossils  
NT: Fossil diatoms  
    Fossil pollen  
    Fossil spores

### **Vegetation control**

USE: **Plant control**

### **Vegetation cover**

SN: Plants covering the surface of  
    water bodies or littoral zone  
RT: Dune stabilization  
    Emergent vegetation  
    Flora  
    Plant control  
    Plant growth

### **Vegetative reproduction**

BT: Reproduction  
RT: Asexual reproduction  
    Budding  
    Plant reproductive structures  
    Rhizomes

### **Vehicles**

SN: Use of a more specific term is  
    recommended  
NT: Aircraft  
    Amphibious vehicles  
    Surface craft  
    Underwater vehicles  
RT: Manoeuvrability

### **Propulsion systems**

Steering systems  
Transportation

### **Veins**

USE: **Blood vessels**

### **Veligers**

BT: Molluscan larvae  
RT: Meroplankton

### **Velocity**

UF: Absolute velocity  
    Speed  
NT: Current velocity  
    Group velocity  
    Orbital velocity  
    Phase velocity  
    Seismic velocities  
    Settling rate  
    Ship speed  
    Sound velocity  
    Wave drift velocity  
    Wave velocity  
    Wind speed  
RT: Acceleration  
    Kinematics  
    Vectors  
    Velocity gradients  
    Velocity profilers  
    Velocity profiles

### **Velocity gradients**

BT: Gradients  
RT: Velocity  
    Velocity profiles  
    Vertical shear  
    Wind profiles  
Velocity measurement (water)  
USE: **Current measurement**

### **Velocity microstructure**

BT: Microstructure  
RT: Current velocity

### **Velocity profilers**

UF: Profiling current meters  
BT: Profilers  
RT: Dropsonde  
    Free-fall profilers  
    Velocity  
    Velocity profiles

### **Velocity profiles**

BT: Vertical profiles  
NT: Current profiles  
    Wind profiles  
RT: Velocity  
    Velocity gradients  
    Velocity profilers

(cont'd)

## ASFA THESAURUS

### *Velocity profiles (cont'd)*

Velocity sections  
Vertical shear  
Vortex shedding

### **Velocity sections**

BT: Hydrographic sections  
RT: Current velocity  
Velocity profiles

### **Venom apparatus**

RT: Biological poisons  
Noxious organisms  
Poisonous fish  
Secretory organs  
Stinging organs

### **Venoms**

USE: **Biological poisons**

### **Ventilation**

RT: Air conditioning

### **Vents (hydrothermal)**

USE: **Hydrothermal springs**

### **Venules**

USE: **Blood vessels**

### **Vermiculite**

BT: Clay minerals

### **Vernacular names**

UF: Common names  
Local names  
RT: Terminology

### **Vertebrae**

BT: Bones  
RT: Spinal cord  
Vertebrae counts

### **Vertebrae counts**

BT: Meristic counts  
RT: Endoskeleton  
Vertebrae

### **Vertebrate zoology**

UF: Chordate zoology  
BT: Zoology  
NT: Herpetology  
Ichthyology  
Mammalogy  
Ornithology  
Osteology

### **Vertical advection**

UF: Vertical transport  
BT: Advection  
RT: Upwelling  
Vertical motion  
Vertical water movement

### **Water column**

### **Vertical distribution**

SN: Use for distribution of aquatic organisms. Use VERTICAL PROFILES for physical and chemical properties  
UF: Bathymetric distribution  
BT: Geographical distribution  
RT: Bathymetric charts  
Diurnal variations  
Ecological zonation  
Oxygen sections  
Salinity sections  
Seasonal variations  
Spatial variations  
Temperature sections  
Thermocline  
Vertical migrations  
Vertical profiles  
Vertical sections

### **Vertical migrations**

BT: Migrations  
RT: Biological rhythms  
Diurnal variations  
Environmental effects  
Orientation  
Phototaxis  
Phototropism  
Vertical distribution

### **Vertical mixing**

BT: Water mixing  
RT: Double diffusion  
Vertical water movement

### **Vertical motion**

RT: Atmospheric motion  
Fluid motion  
Vertical advection  
Vertical water movement  
Vertical movements (geology)  
USE: **Epeirogeny**

### **Vertical profiles**

SN: Plots of physical properties or parameters against depth and/or height  
BT: Profiles  
NT: Density profiles  
Oxygen profiles  
Salinity profiles  
STD profiles  
Temperature profiles  
Velocity profiles  
RT: CTD profilers  
Finestructure  
Horizontal profiles  
Hydrographic sections  
T/S diagrams  
Vertical distribution

### **Vertical profiling**

Vertical sections  
Water column

### **Vertical profiling**

BT: Profiling  
RT: Vertical profiles

### **Vertical sections**

BT: Map graphics  
NT: Geological sections  
Hydrographic sections  
RT: Echosounder profiles  
Seismic profiles  
Vertical distribution  
Vertical profiles

### **Vertical shear**

BT: Shear  
RT: Ekman layers  
Relative vorticity  
Richardson number  
Velocity gradients  
Velocity profiles  
Wind shear

### **Vertical stability**

UF: Static stability  
BT: Stability  
RT: Brunt-Vaisala frequency  
Potential density  
Potential temperature  
Static instability  
Temperature inversions

### **Vertical structure (water bodies)**

USE: **Water column**

### **Vertical tectonics**

BT: Tectonics  
RT: Epeirogeny  
Isostasy

### **Vertical transport**

USE: **Vertical advection**

### **Vertical water movement**

SN: Use of a more specific term is recommended  
BT: Water motion  
NT: Cabbelling  
Cascading  
Downwelling  
Overturn  
Upwelling  
RT: Meridional oceanic circulation  
Vertical advection  
Vertical mixing  
Vertical motion

### **Vessel seizure**

USE: **Surveillance and enforcement**

## ASFA THESAURUS

Vessels

USE: **Surface craft**

### **Vibrarory corers**

UF: Vibro-corers

BT: Corers

### **Vibration**

UF: Strumming

RT: Damping

Elastic waves

Noise (sound)

Oscillations

Resonance

Resonant frequency

Vibrio infections

USE: **Vibriosis**

### **Vibriosis**

SN: A fish disease caused by *Vibrio anguillarum*

UF: Red pest

Spotted pest

Ulcer disease

*Vibrio* infections

BT: Bacterial diseases

Fish diseases

Vibro-corers

USE: **Vibrarory corers**

Video networks

USE: **Television systems**

### **Videotape recordings**

UF: Videotapes

BT: Audiovisual materials

RT: Films

Magnetic tape recordings

Records

Videotapes

USE: **Videotape recordings**

### **Viewing underwater**

UF: Underwater viewing

RT: Visibility underwater

### **Viral diseases**

BT: Infectious diseases

RT: Antiviral agents

Biological control

Fish diseases

Immunization

Septicaemia

Virology

Viruses

Viral haemorrhagic septicaemia

USE: **Septicaemia**

Viral vaccines

USE: **Vaccines**

### **Virology**

BT: Microbiology

RT: Viral diseases

Viruses

### **Virulence**

RT: Diseases

### **Viruses**

SN: In ASFA-1, used as taxonomic descriptor; in ASFA-2, used as subject descriptor

BT: Microorganisms

RT: Antiviral agents

Bacteriophages

Viral diseases

Virology

### **Viscosity**

BT: Mechanical properties

NT: Dynamic viscosity

Eddy viscosity

Molecular viscosity

RT: Capillarity

Rheology

Stokes law

Viscosity coefficients

Water properties

### **Viscosity coefficients**

BT: Exchange coefficients

NT: Eddy viscosity coefficient

RT: Viscosity

### **Visibility**

NT: Visibility underwater

RT: Atmospheric optical phenomena

Fog

Haze

Optics

Vision

### **Visibility underwater**

UF: Underwater visibility

BT: Visibility

RT: Diving

Turbidity

Underwater cameras

Underwater photography

Underwater television

Viewing underwater

Working underwater

Visible and near-infrared imagery

USE: **Satellite photography**

Visible radiation

USE: **Light**

### **Vision**

BT: Sense functions

RT: Eyes

Light stimuli

Optics

Photoreception

Photoreceptors

Visibility

Visual pigments

Visual stimuli

Visual aids

USE: **Audiovisual materials**

### **Visual inspection**

SN: Visual inspection for organoleptic quality of seafood

BT: Inspection

RT: Quality assurance

### **Visual pigments**

UF: Light sensitive pigments

Rhodopsin

BT: Pigments

RT: Retinas

Vision

Visual stimuli

### **Visual stimuli**

BT: Stimuli

RT: Eyes

Vision

Visual pigments

### **Vitamin A**

SN: Before 1982 search

VITAMINS

UF: Carotenes

BT: Vitamins

### **Vitamin B**

SN: Before 1982 search

VITAMINS

UF: Biotin

Riboflavin

Thiamine

Vitamin B complex

BT: Vitamins

RT: Ribose

Vitamin B complex

USE: **Vitamin B**

### **Vitamin C**

SN: Before 1982 search

VITAMINS

UF: Ascorbic acid

BT: Vitamins

# ASFA THESAURUS

## Vitamin D

SN: Before 1982 search  
VITAMINS  
UF: Calciferol  
Cholocalciferol  
BT: Vitamins  
RT: Calcification

## Vitamin deficiencies

UF: Avitaminosis  
Vitamin deficiency  
BT: Dietary deficiencies  
RT: Nutrient deficiency  
Nutrition disorders  
Vitamins

Vitamin deficiency

USE: **Vitamin deficiencies**

## Vitamin E

SN: Before 1982 search  
VITAMINS  
UF: Fertility vitamin  
Tocopherol  
BT: Vitamins

## Vitamins

NT: Vitamin A  
Vitamin B  
Vitamin C  
Vitamin D  
Vitamin E  
RT: Coenzymes  
Drugs  
Food additives  
Growth regulators  
Nutritive value  
Vitamin deficiencies

## Vitellogenesis

UF: Yolk formation  
RT: Eggs  
Embryology  
Embryonic development  
Morphogenesis  
Oogenesis  
Organogenesis  
Yolk

## Viviparity

SN: Giving birth to living young  
which have already reached an  
advanced stage of development  
UF: Viviparous  
RT: Oviparity  
Pregnancy  
Sexual reproduction

Viviparous

USE: **Viviparity**

Vocal behaviour

USE: **Vocalization behaviour**

Vocal cords

USE: **Vocal organs**

## Vocal organs

UF: Vocal cords  
Vocal sacs  
BT: Animal organs  
NT: Larynx  
RT: Sound production  
Vocalization behaviour

Vocal sacs

USE: **Vocal organs**

## Vocalization behaviour

UF: Vocal behaviour  
BT: Behaviour  
RT: Animal communication  
Auditory organs  
Auditory stimuli  
Bioacoustics  
Cetology  
Sound production  
Vocal organs

Voes

USE: **Coastal inlets**

## Void ratio

BT: Ratios  
RT: Permeability  
Porosity  
Soil mechanics  
Voids

## Voids

RT: Percolation  
Permeability  
Porosity  
Void ratio

## Volatile compounds

BT: Chemical compounds  
NT: Volatile hydrocarbons  
RT: Ammonia  
Chemical compounds  
Sulphur compounds

## Volatile hydrocarbons

BT: Petroleum hydrocarbons  
Volatile compounds

## Volcanic ash

UF: Dust (volcanic)  
Volcanic dust  
BT: Ashes  
Volcanic rocks  
RT: Bentonite  
Dust clouds

Eolian deposits

Eolian dust

Eolian transport

Terrigenous sediments

Volcanic eruptions

## Volcanic belts

RT: Volcanism  
Volcanoes

## Volcanic breccia

BT: Tephra  
RT: Breccia

Volcanic dust

USE: **Volcanic ash**

## Volcanic eruptions

BT: Geological hazards  
RT: Disasters  
Tephra  
Tsunamis  
Volcanic ash  
Volcanic islands  
Volcanoes

## Volcanic glass

UF: Basaltic glass  
BT: Volcanic rocks  
RT: Glass  
Obsidian  
Volcanogenic deposits

## Volcanic islands

BT: Oceanic islands  
RT: Island arcs  
Volcanic eruptions  
Volcanism  
Volcanoes

## Volcanic lapilli

BT: Tephra

## Volcanic rocks

UF: Pyroclastics  
BT: Igneous rocks  
NT: Andesite  
Basalts  
Lava  
Palagonite  
Pumice  
Rhyolites  
Tephra  
Volcanic ash  
Volcanic glass  
RT: Allochthonous deposits  
Volcanism  
Volcanoes  
Volcanogenic deposits

Volcanic sediments

USE: **Volcanogenic deposits**

## ASFA THESAURUS

Volcanicity

USE: **Volcanism**

### **Volcanism**

SN: Before 1982 search

SUBMARINE VOLCANOES

UF: Volcanicity

Vulcanism

RT: Active margins

Hot spots

Island arcs

Magma

Plate boundaries

Volcanic belts

Volcanic islands

Volcanic rocks

Volcanoes

Volcanogenic deposits

### **Volcanoes**

SN: Before 1982 search

SUBMARINE VOLCANOES

NT: Submarine volcanoes

RT: Lava flows

Volcanic belts

Volcanic eruptions

Volcanic islands

Volcanic rocks

Volcanism

Volcanogenic deposits

### **Volcanogenic deposits**

UF: Volcanic sediments

BT: Sediments

RT: Terrigenous sediments

Volcanic glass

Volcanic rocks

Volcanism

Volcanoes

### **Voltammetry**

RT: Electroanalysis

Electrolysis

Polarography

### **Volume**

UF: Capacity (volume)

BT: Dimensions

NT: Ice volume

RT: Capacity

Size

Specific volume

### **Volume scattering function**

BT: Optical properties

RT: Irradiance

Light scattering

Scatterance meters

### **Volume transport**

UF: Mass transport (water currents)

BT: Transport

RT: Current velocity

### **Volumetric analysis**

BT: Analysis

RT: Titration

### **Vortex shedding**

RT: Current forces

Velocity profiles

### **Vortices**

RT: Cavitation

Current rings

Fluid motion

Langmuir circulation

Lee eddies

Mixing length

Rotating fluids

Tornadoes

Turbulence

Vorticity

Waterspouts

### **Vorticity**

NT: Absolute vorticity

Enstrophy

Planetary vorticity

Potential vorticity

Relative vorticity

RT: Atmospheric motion

Beta-plane

Coriolis force

Curl (vectors)

Hydrodynamics

Potential flow

Rotation

Turbulence

Vortices

Water motion

Vulcanism

USE: **Volcanism**

### **Vulnerability**

BT: Biological properties

RT: Catchability

Fishing mortality

### **Wakes**

RT: Hydrodynamics

Ship motion

Ship speed

Turbulence

Warm fronts

USE: **Atmospheric fronts**

Warm-blooded animals

USE: **Homoiothermy**

### **Warm-water aquaculture**

SN: Culture of warm-water

organisms

UF: Tropical aquaculture

BT: Aquaculture techniques

RT: Thermal aquaculture

Warning devices

USE: **Alarm systems**

### **Warning services**

BT: Information centres

NT: Storm tide warning services

RT: Earthquake prediction

Environmental monitoring

Iceberg detection

Tsunami prediction

Warning systems

### **Warning systems**

NT: Alarm systems

RT: Safety devices

Warning services

Warships

USE: **Defence craft**

### **Waste disposal**

UF: Chemical waste disposal

Disposal (waste)

NT: Ocean dumping

Radioactive waste disposal

Sewage disposal

RT: Gas flaring

Incineration

Sanitary engineering

Sewage ponds

Waste disposal sites

Waste treatment

Wastes

### **Waste disposal sites**

SN: Offshore sites selected for  
dumping of wastes

UF: Dumping grounds

RT: Spoil

Waste disposal

### **Waste heat**

SN: Heated or thermal effluents  
produced by power plants

BT: Heat

Wastes

RT: Power plants

Thermal aquaculture

### **Waste treatment**

NT: Sewage treatment

Sludge treatment

Wastewater treatment

RT: Anaerobic digestion

Decantation

Environment management

(cont'd)

## ASFA THESAURUS

### *Waste treatment (cont'd)*

- Sanitary engineering
- Waste disposal
- Wastes
- Water pollution treatment

### **Waste utilization**

- UF: Fish waste utilization
- BT: Utilization
- RT: Wastes
- Wastewater aquaculture

### **Waste water**

- BT: Wastes
- Water
- RT: Drainage water
- Effluents
- Industrial wastes
- Runoff
- Sanitary engineering
- Sewage
- Wastewater aquaculture
- Wastewater treatment
- Water pollution
- Water reclamation

### **Wastes**

- NT: Domestic wastes
- Dredge spoil
- Effluents
- Industrial wastes
- Litter
- Mine tailings
- Oil wastes
- Organic wastes
- Pulp wastes
- Radioactive wastes
- Sewage
- Sludge
- Waste heat
- Waste water
- RT: Byproducts
- Manure
- Pollutants
- Waste disposal
- Waste treatment
- Waste utilization

### **Wastewater aquaculture**

- SN: Use of sewage and residual water for aquaculture purposes
- BT: Aquaculture techniques
- RT: Fish culture
- Waste utilization
- Waste water
- Wastewater treatment

### Wastewater recycling

USE: **Wastewater treatment**

### **Wastewater treatment**

SN: Including recycling of waste

waters

- UF: Wastewater recycling
- BT: Waste treatment
- Water treatment
- RT: Biodegradation
- Effluents
- Reverse osmosis
- Sanitary engineering
- Sewage treatment
- Waste water
- Wastewater aquaculture

### **Water**

- SN: Use of a more specific term is recommended; consult terms listed below
- NT: Bottom water
- Brackish water
- Cooling water
- Deep water
- Discoloured water
- Distilled water
- Drainage water
- Fresh water
- Ground water
- Heavy water
- Irrigation water
- Melt water
- Pore water
- River water
- Saline water
- Sea water
- Shallow water
- Stagnant water
- Surface water
- Waste water
- RT: Aquatic environment
- Dead water
- Hydrogen compounds
- Hydrography
- Hydrologic cycle
- Hydrology
- Hydrometeors
- Hydrosphere
- Hydrostatic pressure
- Ice
- Oxygen compounds
- Recreational waters
- Water analysis
- Water balance
- Water circulation
- Water colour
- Water conservation
- Water content
- Water currents
- Water density
- Water depth
- Water filters
- Water filtration
- Water hardness
- Water levels
- Water management

- Water masses
- Water mixing
- Water motion
- Water policy
- Water pollution
- Water properties
- Water quality
- Water resources
- Water rights
- Water ripples
- Water sampling
- Water springs
- Water supply
- Water table
- Water temperature
- Water transparency
- Water treatment
- Water types
- Water use
- Water vapour
- Water waves

### **Water analysis**

- SN: Before 1982 search also WATER ANALYSIS (BIOLOGICAL), WATER ANALYSIS (CHEMICAL) and WATER ANALYSIS (PHYSICAL)
- UF: Water analysis (biological)
- Water analysis (chemical)
- Water analysis (physical)
- BT: Analysis
- NT: Shipboard analysis
- RT: Chemical analysis
- Chemical limnology
- Chemical oceanography
- Chemical oxygen demand
- Dissolved gases
- Hydrocarbon analysis
- Physical limnology
- Physical oceanography
- Pollutant identification
- Pollution detection
- Salinity measurement
- Water
- Water hardness
- Water pollution
- Water quality
- Water sampling
- Water temperature
- Water treatment

Water analysis (biological)

USE: **Water analysis**

Water analysis (chemical)

USE: **Water analysis**

Water analysis (physical)

USE: **Water analysis**

## ASFA THESAURUS

### Water authorities

BT: Organizations  
RT: Water conservation  
Water management  
Water resources

### Water balance

RT: Evapotranspiration  
Kidneys  
Metabolism  
Transpiration  
Urine  
Water

Water blooms

USE: **Algal blooms**

### Water bodies

SN: Surface waters of the Earth.  
Use of a narrower term is recommended  
UF: Surface water bodies  
NT: Coastal waters  
Inland waters  
Lagoons  
Oceans  
RT: Aquatic environment  
Channels  
Hydrosphere  
Recreational waters  
Water budget  
Water column  
Water resources

Water bottles

USE: **Water samplers**

### Water budget

RT: Eustatic changes  
Evaporation  
Heat budget  
Hydrologic cycle  
Hydrology  
Hydrosphere  
Ice volume  
Inflow  
Outflow  
River discharge  
Salt budget  
Water bodies  
Water exchange

Water channels

USE: **Channels**

Water circulating systems

USE: **Recirculating systems**

### Water circulation

SN: Circulation in oceans and inland water bodies. Use of a more specific term is

recommended  
BT: Circulation  
Water motion  
NT: Lake dynamics  
Ocean circulation  
Shelf dynamics  
Surface circulation  
Wind-driven circulation  
RT: Aeration  
Coriolis force  
Diffusion  
Fluid motion  
Gyres  
Hydrodynamics  
Hydrologic cycle  
Physical limnology  
Physical oceanography  
Recirculating systems  
Thermal stratification  
Turbulence  
Upwelling  
Water  
Water currents  
Water masses  
Water mixing

### Water colour

BT: Colour  
Water properties  
RT: Discoloured water  
Gelbstoff  
Light absorption  
Multispectral scanners  
Suspended inorganic matter  
Suspended organic matter  
Suspended particulate matter  
Turbidity  
Water  
Water transparency

### Water column

UF: Vertical structure (water bodies)  
BT: Layers  
NT: Deep layer  
Mixed layer  
Surface layers  
RT: Benthic boundary layer  
Epilimnion  
Heat budget  
Hydrosphere  
Hypolimnion  
Stratification  
Thermocline  
Vertical advection  
Vertical profiles  
Water bodies

### Water conservation

SN: Concerning only the different types of water resources  
BT: Conservation

RT: Evaporation reduction  
Water  
Water authorities  
Water management  
Water policy  
Water pollution  
Water quality  
Water resources  
Water use

### Water content

UF: Moisture content  
RT: Biochemical composition  
Dehydration  
Dewatering  
Drying  
Evapotranspiration  
Humidity  
Hygrometry  
Pore pressure  
Pore water  
Porosity  
Sediment properties  
Transpiration  
Water  
Wet bulk density  
Wet weight

Water current data

USE: **Current data**

Water current observations

USE: **Current observations**

### Water currents

UF: Currents (water)  
Water flow  
BT: Water motion  
NT: Bottom currents  
Boundary currents  
Coastal currents  
Countercurrents  
Gradient currents  
Inertial currents  
Lake currents  
Nearshore currents  
Ocean currents  
Shelf currents  
Slope currents  
Stream flow  
Subsurface currents  
Surface currents  
Tidal currents  
Undercurrents  
Wind-driven currents  
RT: Bottom topography effects  
Channels  
Current charts  
Current data  
Current direction  
Current forces

(cont'd)



## ASFA THESAURUS

### *Water currents (cont'd)*

- Current meandering
- Current measurement
- Current measuring equipment
- Current meters
- Current power
- Current prediction
- Current reversal
- Current roses
- Current scouring
- Current vectors
- Density flow
- Energy spectra
- Fluid flow
- Fluid motion
- Horizontal motion
- Physical limnology
- Physical oceanography
- Residual flow
- Rheotaxis
- Rheotropism
- Streamlines
- Water
- Water circulation

### Water cycle

USE: **Hydrologic cycle**

### Water density

- UF: Density (water)
- BT: Density
  - Water properties
- NT: In situ density
  - Potential density
  - Relative density
  - Sigma-T
- RT: Buoyancy
  - Cabbeling
  - Chlorinity
  - Chlorosity
  - Density charts
  - Density field
  - Density fronts
  - Density gradients
  - Density interfaces
  - Density measurement
  - Density profiles
  - Density sections
  - Density stratification
  - Hydrostatic pressure
  - Isopycnic surfaces
  - Isopycnics
  - Monin-Obukhov length
  - Pycnocline
  - Salinity
  - Specific volume
  - Specific volume anomalies
  - Water

### Water depth

- UF: Nautical bottom
- BT: Depth

### RT: Bathymeters

- Bathymetric charts
- Bathymetric data
- Bathymetric profiles
- Bathymetric surveys
- Bathymetry
- Bathythermographic data
- Bathythermographs
- Deep currents
- Deep water
- Depth recorders
- Hydrographic surveying
- Hydrographic surveys
- Isobaths
- Saturation depth
- Shallow water
- Soundings
- Water
- Wave attenuation
- Wave parameters
- Wind wave parameters

### Water depth measurement

USE: **Bathymetry**

### Water desalting

USE: **Desalination**

### Water exchange

- SN: Net exchange of water between
  - adjacent water bodies
- RT: Conservation of salt
  - Heat transport
  - Inflow
  - Outflow
  - Straits
  - Water budget

### Water filters

- BT: Filters
- RT: Water
  - Water filtration

### Water filtration

- SN: Removal of ions and organic
  - matter from water
- UF: Filtration (water)
- BT: Filtration
- RT: Aeration
  - Aquaria
  - Centrifugation
  - Recirculating systems
  - Sanitary engineering
  - Sewage treatment
  - Sludge treatment
  - Water
  - Water filters
  - Water purification
  - Water quality
  - Water treatment

### Water flow

USE: **Water currents**

### Water hardness

- UF: Hardness (water)
- BT: Physical properties
  - Water properties
- RT: Alkalinity
  - Calcium
  - Calcium compounds
  - Carbonates
  - Soaps
  - Water
  - Water analysis
  - Water quality

### Water level measurement

- BT: Measurement
- NT: Sea level measurement
- RT: Water levels
  - Wave measurement

### Water levels

- SN: Before 1984 search also
  - WATER LEVELS (LAKES)
- UF: Stages (water)
  - Water levels (lakes)
- BT: Levels
- NT: Sea level
- RT: Droughts
  - Floods
  - Lake dynamics
  - Water
  - Water level measurement
  - Wind setup

### Water levels (lakes)

USE: **Water levels**

### Water management

- BT: Resource management
- RT: Flood control
  - River basin management
  - Water
  - Water authorities
  - Water conservation
  - Water policy
  - Water resources
  - Water supply

### Water mass intrusions

- NT: Boluses
- RT: Saline intrusion
  - Water masses

### Water masses

- NT: Cold water masses
  - Deep-water masses
  - Intermediate water masses
  - Outflow waters
  - Slope water

(cont'd)

## ASFA THESAURUS

### *Water masses (cont'd)*

- Subsurface water
- Surface water masses
- Water types
- RT: Cabbelling
- Conservative properties
- Convergence zones
- Core layers (water)
- Divergence zones
- Frontogenesis
- Hydrography
- In situ density
- Non-conservative properties
- Oceanic convergences
- Optical classification
- Pycnocline
- T/S diagrams
- Thermocline
- Thermostads
- Water
- Water circulation
- Water mass intrusions
- Water mixing
- Water properties

### **Water mixing**

- UF: Mixing (water)
- NT: Tidal mixing
  - Trans-isopycnal mixing
  - Transverse mixing
  - Vertical mixing
- RT: Aeration
- Buoyant jets
- Cabbelling
- Core layer method
- Destratification
- Diffusion
- Dilution
- Dispersion
- Downwelling
- Estuarine dynamics
- Mixing processes
- Overtum
- River plumes
- Thermal plumes
- Upwelling
- Water
- Water circulation
- Water masses
- Water motion

### **Water motion**

- SN: Motion in oceans and inland water bodies
- UF: Water movements
- BT: Motion
- NT: Lee eddies
- Meandering
- Vertical water movement
- Water circulation
- Water currents
- RT: Fluid dynamics

- Oceanic turbulence
- Planetary waves
- Transport processes
- Vorticity
- Water
- Water mixing
- Wave motion

Water movements  
USE: **Water motion**

Water oil separation  
USE: **Oil water separation**

### **Water policy**

- BT: Policies
- RT: Irrigation water
- Water
- Water conservation
- Water management
- Water quality
- Water resources
- Water supply

### **Water pollution**

- UF: Aquatic pollution
- BT: Pollution
- NT: Brackishwater pollution
  - Freshwater pollution
  - Groundwater pollution
  - Marine pollution
- RT: Chemical pollution
- Oil pollution
- Outfalls
- Radioactive contamination
- Thermal pollution
- Waste water
- Water
- Water analysis
- Water conservation
- Water pollution treatment
- Water resources
- Water use

Water pollution control  
USE: **Pollution control**

Water pollution effects  
USE: **Pollution effects**

### **Water pollution treatment**

- BT: Water treatment
- RT: Biodegradation
  - Chemical degradation
  - Decantation
  - Oil removal
  - Pollution control
  - Public health
  - Sanitary engineering
  - Waste treatment
  - Water pollution
  - Water purification

Water quality control

Water pressure  
USE: **Hydrostatic pressure**

### **Water properties**

- SN: Use of a more specific term is recommended
- BT: Properties
- NT: Water colour
  - Water density
  - Water hardness
  - Water temperature
  - Water transparency
- RT: Chemical properties
  - Dissolved oxygen
  - Dissolved salts
  - Environmental factors
  - Eutrophication
  - Evaporation
  - Organoleptic properties
  - pH
  - Physical limnology
  - Physical oceanography
  - Physical properties
  - Physicochemical properties
  - Relative density
  - Saline water
  - Surface properties
  - Thermal conductivity
  - Thermal diffusivity
  - Thermal expansion
  - Turbidity
  - Viscosity
  - Water
  - Water masses
  - Water quality
  - Water structure

### **Water pumps**

- UF: Pumps (water)
- BT: Pumps
- RT: Aquaculture equipment
  - Aquaria
  - Recirculating systems
  - Salvage equipment

### **Water purification**

- SN: Physical and chemical treatment
  - for water purification
- UF: Purification (water)
- BT: Water treatment
- RT: Centrifugation
  - Chlorination
  - Dechlorination
  - Desalination
  - Disinfection
  - Ion exchange
  - Public health
  - Sanitary engineering

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## ASFA THESAURUS

### *Water purificaion (cont'd)*

- Self purification
- Separation
- Water filtration
- Water pollution treatment
- Water quality

### **Water quality**

- UF: Water standards
- RT: Biochemical oxygen demand
  - Chemical oxygen demand
  - Deoxygenation
  - Eutrophication
  - Water
  - Water analysis
  - Water conservation
  - Water filtration
  - Water hardness
  - Water policy
  - Water properties
  - Water purification
  - Water quality control
  - Water resources
  - Water sampling
  - Water supply

### **Water quality control**

- BT: Quality control
- RT: Pollution control
  - Water pollution treatment
  - Water quality
  - Water sampling
  - Water treatment

### **Water reclamation**

- UF: Reclamation (water)
- BT: Reclamation
- RT: Waste water
  - Water resources

### **Water reservoirs**

- UF: Impounding lakes
  - Reservoirs (water)
- BT: Inland waters
- RT: Aquaculture facilities
  - Artificial lakes
  - Backwaters
  - Dams
  - Fishways
  - Flood control
  - Irrigation water
  - Lenitic environment
  - Limnology
  - Ponds
  - Reservoir fisheries

### **Water resources**

- SN: Mainly different types of water bodies or water sources of inland regions
- BT: Natural resources
- RT: Atmospheric precipitations

- Droughts
- Glaciers
- Ground water
- Hydrologic cycle
- Ponds
- Renewable resources
- Rivers
- Spring streams
- Water
- Water authorities
- Water bodies
- Water conservation
- Water management
- Water policy
- Water pollution
- Water quality
- Water reclamation
- Water use

### **Water rights**

- BT: Rights
- RT: Exclusive rights
  - Irrigation
  - Irrigation water
  - Property rights
  - Ranching
  - Rental
  - Riparian rights
  - Water
  - Water supply
  - Water use
  - Water use regulations

### **Water ripples**

- UF: Ripples (water)
- BT: Capillary waves
- RT: Water

### **Water runoff**

USE: **Wave runoff**

### **Water samplers**

- UF: Nansen bottles
  - Niskin samplers
  - Water bottles
- BT: Samplers
- RT: Limnological equipment
  - Pore water samplers
  - Water samples
  - Water sampling

### **Water samples**

- BT: Samples
- RT: Chemical analysis
  - Water samplers
  - Water sampling

### **Water sampling**

- BT: Sampling
- RT: Water
  - Water analysis
  - Water quality

- Water quality control
- Water samplers
- Water samples

### **Water seepages**

USE: **Submarine springs**

### **Water springs**

- SN: Use of a more specific term is recommended
- UF: Freshwater springs
  - Springs (water)
- NT: Geothermal springs
  - Hot springs
  - Spring streams
  - Submarine springs
- RT: Lotic environment
  - Seepages
  - Water

### **Water standards**

USE: **Water quality**

### **Water structure**

RT: Water properties

### **Water supply**

- RT: Desalination plants
  - Water
  - Water management
  - Water policy
  - Water quality
  - Water rights
  - Water treatment
  - Water use

### **Water surface salinity**

USE: **Surface salinity**

### **Water surface slope**

USE: **Surface slope**

### **Water surface temperature**

USE: **Surface temperature**

### **Water surface topography**

USE: **Surface topography**

### **Water table**

- RT: Drainage water
  - Ground water
  - Water
  - Watersheds

### **Water tanks**

USE: **Tanks**

### **Water temperature**

- BT: Temperature
  - Water properties

(cont'd)

## ASFA THESAURUS

### *Water temperature (cont'd)*

NT: Bottom temperature  
 In situ temperature  
 Palaeotemperature  
 Surface temperature  
 RT: Abiotic factors  
 Bathythermographs  
 Cabbeling  
 Cold season  
 Cold water masses  
 Evaporation  
 Geothermal springs  
 Heat content  
 Hydroclimate  
 Isotherms  
 Physical limnology  
 Physical oceanography  
 Potential temperature  
 Refractive index  
 Sediment temperature  
 T/S diagrams  
 Temperature charts  
 Temperature effects  
 Temperature gradients  
 Temperature profiles  
 Temperature sections  
 Thermal microstructure  
 Thermal pollution  
 Thermal stratification  
 Thermal structure  
 Thermocline  
 Thermostads  
 Water  
 Water analysis  
 Water temperature data  
 Water types

### **Water temperature data**

BT: Hydrographic data  
 Temperature data  
 RT: Limnological data  
 Oceanographic data  
 Water temperature

### **Water transparency**

UF: Transparency (water)  
 BT: Transparency  
 Water properties  
 RT: Extinction coefficient  
 Light absorption  
 Light attenuation  
 Light scattering  
 Nephelometers  
 Transmittance  
 Turbidity  
 Water  
 Water colour

### **Water treatment**

NT: Desalination  
 Wastewater treatment  
 Water pollution treatment

Water purification  
 RT: Aeration  
 Biofilters  
 Coagulation  
 Decantation  
 Dechlorination  
 Ion exchange  
 Oil water separation  
 Oxygenation  
 Water  
 Water analysis  
 Water filtration  
 Water quality control  
 Water supply

### **Water types**

BT: Water masses  
 NT: Optical water types  
 RT: Core layers (water)  
 Hydrography  
 Salinity  
 T/S diagrams  
 Water  
 Water temperature

### **Water use**

UF: Use of water  
 Water utilization  
 BT: Utilization  
 RT: Water  
 Water conservation  
 Water pollution  
 Water resources  
 Water rights  
 Water supply  
 Water use regulations

### **Water use regulations**

SN: Policy and ownership of land  
 and inland waters  
 BT: Legislation  
 RT: Recreational waters  
 Water rights  
 Water use

### **Water utilization**

USE: **Water use**

### **Water vapour**

RT: Condensation  
 Dew point  
 Greenhouse effect  
 Humidity  
 Hydrometeors  
 Hygrometers  
 Hygrometry  
 Mixing ratio  
 Moisture  
 Sublimation  
 Vapour pressure  
 Water

Water vapour pressure  
 USE: **Vapour pressure**

Water vapour transfer  
 USE: **Moisture transfer**

Water wave forecasting  
 USE: **Wave forecasting**

Water wave motion  
 USE: **Wave motion**

Water wave propagation  
 USE: **Wave propagation**

Water wave statistics  
 USE: **Wave statistics**

### **Water waves**

UF: Waves (water)  
 NT: Catastrophic waves  
 Deep-water waves  
 Destructive waves  
 Equatorial waves  
 Freak waves  
 Giant waves  
 Gravity waves  
 Inertial waves  
 Internal waves  
 Irregular waves  
 Linear waves  
 Nonlinear waves  
 Oscillatory waves  
 Regular waves  
 Shallow water waves  
 Surface gravity waves  
 Surface water waves  
 Topographic waves  
 Trapped waves  
 RT: Energy spectra  
 Group velocity  
 Orbital velocity  
 Overtopping  
 Overwash  
 Phase velocity  
 Physical limnology  
 Physical oceanography  
 Planetary waves  
 Water  
 Wave attenuation  
 Wave diffraction  
 Wave dispersion  
 Wave dissipation  
 Wave drift velocity  
 Wave effects  
 Wave generation  
 Wave generators  
 Wave groups  
 Wave interactions  
 Wave parameters

(cont'd)

# ASFA THESAURUS

## *Water waves (cont'd)*

Wave propagation  
Wave properties  
Wave recorders  
Wave slope  
Wave statistics  
Wave trains  
Wave trapping  
Wave velocity  
Wave-wave interaction

Water waves action  
USE: **Wave effects**

Water weed utilization  
USE: **Plant utilization**

Water-air exchanges  
USE: **Air-water exchanges**

Water-ice interface  
USE: **Ice-water interface**

Water-oil interface  
USE: **Oil-water interface**

Watershed (divide)  
USE: **Watersheds**

## **Watersheds**

UF: Watershed (divide)  
RT: Catchment area  
Drainage water  
Flood control  
Ground water  
Lake basins  
River basins  
Runoff  
Stream flow  
Valleys  
Water table

## **Waterspouts**

RT: Atmospheric motion  
Hurricanes  
Tornadoes  
Vortices

## **Wave absorbers**

RT: Wave damping

## **Wave action**

UF: Density (wave action)  
Wave action density  
BT: Wave effects  
RT: Ship motion

Wave action density  
USE: **Wave action**

Wave age  
USE: **Age**

## **Wave amplitude**

BT: Amplitude  
NT: Tidal amplitude  
RT: Wave attenuation  
Wave damping  
Wave height  
Wave properties

## **Wave analysis**

BT: Analysis  
NT: Tidal analysis  
Waveform analysis  
RT: Surface water waves

## **Wave attenuation**

SN: Use for natural decrease of amplitude of water waves  
UF: Attenuation (water waves)  
BT: Attenuation  
Wave dissipation  
RT: Sound attenuation  
Water depth  
Water waves  
Wave amplitude  
Wave damping  
Wave dispersion  
Wave propagation  
Wave scattering

## **Wave breaking**

BT: Wave dissipation  
NT: Internal wave breaking  
Whitcapping  
RT: Breaking waves  
Wave crests  
Wave dynamics  
Wave processes on beaches  
Waves on beaches

## **Wave buoys**

BT: Data buoys  
RT: Wave direction sensors  
Wave measuring equipment  
Wave power devices

## **Wave celerity**

USE: **Wave velocity**

## **Wave climate**

RT: Climate  
Climatological charts  
Design wave  
Environmental conditions  
Sea state  
Wave forces  
Wind waves

Wave control (water waves)  
USE: **Wave damping**

## **Wave crests**

RT: Breaking waves

Long-crested waves  
Short-crested waves  
Wave breaking  
Wave geometry  
Wave slope

## **Wave damping**

SN: Induced reduction in water wave amplitude  
UF: Damping (water waves)  
Wave control (water waves)  
BT: Damping  
RT: Breakwaters  
Ship motion  
Surface films  
Surface water waves  
Wave absorbers  
Wave amplitude  
Wave attenuation  
Wave dissipation

## **Wave data**

SN: Data on water waves  
UF: Wave records  
BT: Data  
RT: Oceanographic data  
Wave statistics

## **Wave decay**

USE: **Wave dissipation**

## **Wave diffraction**

SN: Use only for water waves and specify type of wave  
BT: Diffraction  
RT: Water waves  
Wave interactions  
Wave propagation

## **Wave direction**

BT: Direction  
RT: Directional spectra  
Long-crested waves  
Short-crested waves  
Wave direction sensors  
Wave properties

## **Wave direction sensors**

BT: Sensors  
RT: Wave buoys  
Wave direction  
Wave measuring equipment

## **Wave dispersion**

SN: Use only for water waves and specify type of wave  
UF: Dispersion (water waves)  
BT: Dispersion  
RT: Group velocity  
Phase velocity  
Water waves

(cont'd)

## ASFA THESAURUS

### *Wave dispersion (cont'd)*

- Wave attenuation
- Wave groups
- Wave motion
- Wave propagation
- Wave trains

### **Wave dissipation**

- SN: Use only for water waves and specify type of wave
- UF: Dissipation (water waves)
  - Wave decay
  - Wave energy dissipation (water waves)
- BT: Energy dissipation
- NT: Tidal dissipation
  - Wave attenuation
  - Wave breaking
- RT: Bottom friction
  - Breaking waves
  - Oceanic turbulence
  - Surf zone
  - Water waves
  - Wave damping
  - Wave energy
  - Wave motion
  - Wave scattering
  - Whitecapping

### **Wave drift velocity**

- UF: Mass transport velocity
  - Stokes drift
- BT: Velocity
- RT: Mass transport
  - Orbital velocity
  - Particle motion
  - Water waves
  - Wave dynamics

### **Wave dynamics**

- NT: Tidal dynamics
- RT: Bay dynamics
  - Wave breaking
  - Wave drift velocity
  - Wave motion

### **Wave effects**

- UF: Water waves action
- NT: Wave action
- RT: Backwash
  - Beach erosion
  - Beach profiles
  - Buoy motion
  - Capsizing
  - Flooding
  - Reflectance
  - Sediment transport
  - Ship motion
  - Tsunamis
  - Water waves
  - Wave energy
  - Wave forces

Waves on beaches

### **Wave energy**

- SN: Used for the natural energy bound up in the motion of water waves. For exploitation of that energy use WAVE POWER
- BT: Energy
- NT: Tidal energy
- RT: Energy transfer
  - Wave dissipation
  - Wave effects
  - Wave power
  - Wave power devices
  - Wave spectra

Wave energy dissipation (water waves)

USE: **Wave dissipation**

Wave energy spectra

USE: **Wave spectra**

Wave fetch

USE: **Fetch**

Wave followers

USE: **Instrument platforms**

### **Wave forces**

- UF: Impact (waves)
  - Slamming
  - Wave load
  - Wave pressure
- BT: Loads (forces)
- RT: Design wave
  - Flow around objects
  - Hydrodynamics
  - Morison's equation
  - Ship motion
  - Wave climate
  - Wave effects

### **Wave forecasting**

- UF: Water wave forecasting
  - Wave forecasts
- BT: Wave predicting
- RT: Design wave
  - Ship routeing
  - Significant wave height
  - Wave hindcasting

Wave forecasts

USE: **Wave forecasting**

Wave formation (water waves)

USE: **Wave generation**

### **Wave frequency**

- SN: Before 1982 search WAVE PERIOD
- BT: Frequency

RT: Wave period

- Wave properties
- Wave spectra

Wave gauges

USE: **Wave measuring equipment**

### **Wave generation**

- SN: Use only for water waves and specify type of wave
- UF: Generation (water waves)
  - Wave formation (water waves)
  - Wave growth (water waves)
- NT: Internal wave generation
  - Storm surge generation
  - Tsunami generation
  - Wind wave generation
- RT: Energy transfer
  - Water waves
  - Wave generators
  - Wave motion

### **Wave generators**

- SN: Mechanical devices used to generate water waves in wave tanks
- RT: Water waves
  - Wave generation
  - Wave tanks

### **Wave geometry**

- SN: Search also SURFACE GEOMETRY before 1982
- UF: Surface geometry (water waves)
  - Wave shape
  - Wave topography
- RT: Surface properties
  - Surface water waves
  - Wave crests
  - Wave height
  - Wave slope
  - Wave statistics

### **Wave groups**

- RT: Group velocity
  - Water waves
  - Wave dispersion
  - Wave statistics
  - Wave trains

Wave growth (water waves)

USE: **Wave generation**

### **Wave height**

- SN: Use for surface water waves except tides
- NT: Significant wave height
- RT: Design wave
  - Extreme waves
  - Giant waves

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## ASFA THESAURUS

### *Wave height (cont'd)*

- Significant waves
- Wave amplitude
- Wave geometry
- Wave properties
- Wave statistics

### **Wave hindcasting**

- UF: Hindcasting (waves)
- BT: Wave predicting
- RT: Wave forecasting

### **Wave interactions**

- SN: Use only for water waves
- UF: Wave-air interactions
  - Wave-ice interaction
- BT: Interactions
- NT: Nonlinear wave interactions
  - Resonant wave interaction
  - Wave trapping
  - Wave-current interaction
  - Wave-seabed interaction
  - Wave-wave interaction
  - Wind-wave interaction

- RT: Atmospheric boundary layer

- Energy transfer
- Momentum transfer
- Shear flow
- Surface layers
- Turbulence
- Water waves
- Wave diffraction
- Wave motion
- Wave reflection
- Wave refraction
- Waves on beaches

### Wave load

- USE: **Wave forces**

### **Wave measurement**

- RT: Photogrammetry
  - Radar altimetry
  - Satellite altimetry
  - Stereophotography
  - Water level measurement
  - Wave measuring equipment

### **Wave measuring equipment**

- UF: Wave gauges
  - Wave meters
  - Wave staff sensors
  - Wave staffs
- BT: Measuring devices
- RT: Echosounders
  - Pressure sensors
  - Radar altimeters
  - Surface water waves
  - Wave buoys
  - Wave direction sensors
  - Wave measurement
  - Wave measuring platforms

### Wave recorders

- Wave tanks

### **Wave measuring platforms**

- RT: Wave measuring equipment

### Wave meters

- USE: **Wave measuring equipment**

### **Wave motion**

- SN: Use only for general works on wave phenomena
- UF: Water wave motion
  - Wave theory
- RT: Absorptance
  - Absorption (physics)
  - Attenuation
  - Diffraction
  - Fluid motion
  - Reflection
  - Refraction
  - Transmission
  - Water motion
  - Wave dispersion
  - Wave dissipation
  - Wave dynamics
  - Wave generation
  - Wave interactions
  - Wave propagation

### **Wave number**

- RT: Wave properties
  - Wave spectra
  - Wavelength

### Wave overtopping

- USE: **Overtopping**

### **Wave parameters**

- RT: Duration
  - Fetch
  - Water depth
  - Water waves
  - Wave properties
  - Wind speed
  - Wind stress

### Wave particle motion

- USE: **Particle motion**

### Wave particle velocity

- USE: **Orbital velocity**

### **Wave period**

- RT: Regular waves
  - Significant waves
  - Surges
  - Wave frequency
  - Wave properties
  - Wave statistics

### **Wave phase**

- RT: Wave properties

### **Wave power**

- SN: Utilizing the energy of waves as a source of power
- BT: Power from the sea
- RT: Hydroelectric power
  - Tidal power
  - Wave energy
  - Wave power devices

### **Wave power devices**

- BT: Electric power sources
- RT: Hydroelectric power plants
  - Wave buoys
  - Wave energy
  - Wave power

### Wave power spectra

- USE: **Wave spectra**

### **Wave predicting**

- SN: Use only for prediction of wind waves
- BT: Prediction
- NT: Wave forecasting
  - Wave hindcasting
- RT: Sea state
  - Wave properties

### Wave pressure

- USE: **Wave forces**

### **Wave processes on beaches**

- UF: Wave setdown
  - Wave setup
- NT: Wave runup
- RT: Beaches
  - Longshore currents
  - Wave breaking
  - Waves on beaches

### **Wave propagation**

- SN: Use only for water waves and specify type of wave
- UF: Propagation (water waves)
  - Transmission (water waves)
  - Water wave propagation
  - Wave transmission
- NT: Tidal propagation
- RT: Water waves
  - Wave attenuation
  - Wave diffraction
  - Wave dispersion
  - Wave motion
  - Wave reflection
  - Wave refraction
  - Wave scattering

## ASFA THESAURUS

### Wave properties

RT: Physical properties

- Seismic waves
- Sound waves
- Water waves
- Wave amplitude
- Wave direction
- Wave frequency
- Wave height
- Wave number
- Wave parameters
- Wave period
- Wave phase
- Wave predicting
- Wave slope
- Wave spectra
- Wave statistics
- Wave velocity
- Wavelength
- Wind wave parameters

### Wave recorders

UF: Capacitance wire wave recorders

- Shipborne wave recorders
- Surface wave recorders

BT: Recording equipment

RT: Accelerometers

- Water waves
- Wave measuring equipment
- Wind waves

Wave records

USE: **Wave data**

### Wave reflection

SN: Use only for water waves and specify type of wave

UF: Reflection (water waves)

BT: Reflection

RT: Standing waves

- Wave interactions
- Wave propagation

### Wave refraction

SN: Before 1982 search also REFRACTION (WATER WAVES). Use only for water waves and specify type of wave

UF: Refraction (water waves)

BT: Refraction

RT: Bottom topography effects

- Shallow water
- Wave interactions
- Wave propagation
- Wave refraction diagrams
- Waves on beaches

### Wave refraction diagrams

BT: Graphs

RT: Caustics

- Orthogonals

Wave refraction

### Wave runup

SN: Before 1986 search also SWASH

UF: Surges (beach)

Swash

Water runup

BT: Wave processes on beaches

RT: Backwash

- Breakwaters
- Sea walls

Wave sand ripples

USE: **Sand ripples**

### Wave scattering

SN: Use only for water waves

UF: Scattering (water waves)

RT: Wave attenuation

- Wave dissipation
- Wave propagation

### Wave scouring

SN: Before 1983 search CURRENT SCOURING

BT: Scouring

RT: Bed forms

- Bottom erosion
- Current scouring
- Shallow water waves
- Surface water waves
- Wave-cut platforms

Wave setdown

USE: **Wave processes on beaches**

Wave setup

USE: **Wave processes on beaches**

Wave shape

USE: **Wave geometry**

### Wave slope

UF: Wave steepness

RT: Sand waves

- Surface slope
- Water waves
- Wave crests
- Wave geometry
- Wave properties

Wave slope followers

USE: **Instrument platforms**

### Wave spectra

UF: Wave energy spectra

- Wave power spectra

BT: Spectra

RT: Wave energy

- Wave frequency
- Wave number

Wave properties

Wave statistics

Wave staff sensors

USE: **Wave measuring equipment**

Wave staffs

USE: **Wave measuring equipment**

### Wave statistics

UF: Water wave statistics

BT: Statistics

RT: Design wave

- Water waves
- Wave data
- Wave geometry
- Wave groups
- Wave height
- Wave period
- Wave properties
- Wave spectra
- Wave velocity

Wave steepness

USE: **Wave slope**

### Wave tanks

BT: Tanks

RT: Flumes

- Hydraulic models
- Laboratory equipment
- Test equipment
- Towing tanks
- Wave generators
- Wave measuring equipment

Wave theory

USE: **Wave motion**

Wave topography

USE: **Wave geometry**

### Wave trains

RT: Benjamin Feir instability

- Water waves
- Wave dispersion
- Wave groups

Wave transmission

USE: **Wave propagation**

### Wave trapping

BT: Wave interactions

RT: Topographic effects

- Trapped waves
- Water waves



## ASFA THESAURUS

### Wave velocity

SN: Use only for water waves  
 UF: Wave celerity  
     Wave velocity (water waves)  
 BT: Velocity  
 RT: Group velocity  
     Orbital velocity  
     Phase velocity  
     Water waves  
     Wave properties  
     Wave statistics

Wave velocity (seismic)  
 USE: **Seismic velocities**

Wave velocity (sound)  
 USE: **Sound velocity**

Wave velocity (water waves)  
 USE: **Wave velocity**

Wave-air interactions  
 USE: **Wave interactions**

### Wave-current interaction

BT: Wave interactions  
 RT: Giant waves  
     Longshore currents  
     Momentum transfer  
     Rip currents

### Wave-cut platforms

UF: Beach platforms  
     Erosion platforms  
     Strandflats  
 BT: Beach features  
 RT: Cliffs  
     Erosion surfaces  
     Strandlines  
     Terraces  
     Wave scouring

Wave-ice interaction  
 USE: **Wave interactions**

### Wave-induced loading

BT: Loads (forces)  
 RT: Cyclic loading  
     Pore pressure  
     Wave-seabed interaction

### Wave-seabed interaction

BT: Wave interactions  
 RT: Bed forms  
     Benthic boundary layer  
     Bottom pressure  
     Cyclic loading  
     Sediment-water interface  
     Wave-induced loading

Wave-shore interaction  
 USE: **Waves on beaches**

### Wave-wave interaction

BT: Wave interactions  
 NT: Short wave-long wave interactions  
     Surface wave-internal wave interactions  
     Tide-surge interaction  
 RT: Resonant wave interaction  
     Water waves

### Waveform analysis

BT: Wave analysis  
 RT: Fourier analysis  
     Harmonic analysis  
     Spectral analysis

### Wavelength

RT: Wave number  
     Wave properties

Waves (acoustic)

USE: **Sound waves**

Waves (elastic)

USE: **Elastic waves**

Waves (electromagnetic)

USE: **Electromagnetic radiation**

Waves (planetary)

USE: **Planetary waves**

Waves (sand)

USE: **Sand waves**

Waves (seismic)

USE: **Seismic waves**

Waves (sound)

USE: **Sound waves**

Waves (water)

USE: **Water waves**

Waves on beaches

UF: **Wave-shore interaction**

RT: Backwash  
     Breaking waves  
     Edge waves  
     Nearshore dynamics  
     Shoaling  
     Shoaling waves  
     Surf  
     Surf zone  
     Undertow  
     Wave breaking  
     Wave effects  
     Wave interactions  
     Wave processes on beaches  
     Wave refraction

Wax

USE: **Waxes**

### Waxes

UF: Wax  
 BT: Lipids  
 RT: Animal products  
     Petroleum

### Wear

SN: As applied to materials  
 RT: Deterioration  
     Friction  
     Toughness  
     Weathering

### Weather

SN: State of the atmosphere at a given time as defined by the meteorological elements. Before 1982 search WEATHER CONDITIONS  
 UF: Atmospheric conditions  
     Weather conditions  
 BT: Climate  
 RT: Air temperature  
     Atmospheric depressions  
     Atmospheric precipitations  
     Atmospheric pressure  
     Cloud cover  
     Clouds  
     Fog  
     Humidity  
     Ice conditions  
     Lightning  
     Meteorology  
     Rainfall  
     Sea level pressure  
     Sea state  
     Troposphere  
     Weather forecasting  
     Weather hazards  
     Weather maps  
     Wind speed

Weather conditions

USE: **Weather**

Weather forecast map

USE: **Weather maps**

### Weather forecasting

UF: Weather forecasts  
 BT: Prediction  
 RT: Atmospheric fronts  
     Atmospheric pressure  
     Climate prediction  
     Meteorology  
     Ship routing  
     Tropical depressions  
     Weather

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## ASFA THESAURUS

### *Wather forecasting (cont'd)*

Weather hazards  
Weather maps  
Weather ships

Weather forecasts

USE: **Weather forecasting**

### **Weather hazards**

BT: Hazards  
NT: Droughts  
Floods  
Icing  
Storms

RT: Weather

Weather forecasting

### **Weather maps**

UF: Weather forecast map

BT: Meteorological charts

RT: Meteorological observations

Weather

Weather forecasting

Wind direction

Wind speed

Weather routing

USE: **Ship routeing**

### **Weather ships**

UF: Ocean weather ships

BT: Ships

RT: Data buoys

Ocean stations

Research vessels

Selected ships

Weather forecasting

### **Weathering**

RT: Corrosion

Degradation

Environmental effects

Erosion

Fate

Leaching

Wear

Weed cutting

USE: **Plant control**

### **Weeds**

UF: Aquatic weeds

BT: Flora

NT: Freshwater weeds

Seaweeds

RT: Aquatic plants

Plant control

Pleuston

### **Weekly**

BT: Periodicity

Wegener hypothesis

USE: **Continental drift**

### **Weight**

BT: Physical properties

NT: Dry weight

Molecular weight

Wet weight

RT: Displacement

Gravity

Loads (forces)

Mass

Pressure

Specific gravity

Weight-length relationships

USE: **Length-weight relationships**

### **Weirs**

SN: Structures built across rivers

or channels to divert water and

raise the water level

BT: Barrages

RT: Dams

### **Welding**

UF: Explosive welding

NT: Electric arc welding

Welding underwater

RT: Cutting

Heat affected zones

Pipeline construction

### **Welding underwater**

BT: Welding

Working underwater

RT: Cutting underwater

### **Well completion**

UF: Completion (well)

Offshore completion

RT: Oil wells

### **Well logging**

BT: Logging

RT: Boreholes

### **Well workover operations**

UF: Workovers

RT: Oil and gas production

### **Wellheads**

UF: Christmas trees

Underwater wellheads

BT: Underwater structures

RT: Blowout preventers

Flowlines

Manifolds

Subsea production systems

Templates

Wells (oil and gas)

USE: **Oil wells**

### **Westerlies**

BT: Planetary winds

NT: Equatorial westerlies

### **Western boundary currents**

BT: Boundary currents

RT: Western boundary

undercurrents

Westward intensification

### **Western boundary undercurrents**

BT: Undercurrents

RT: Contour currents

Western boundary currents

### **Westward intensification**

SN: Westward intensification of

velocity of wind driven currents

RT: Current velocity

Planetary vorticity

Western boundary currents

### **Wet bulk density**

BT: Sediment density

RT: Grain size

Porosity

Water content

Wet season

USE: **Rainy season**

### **Wet submersibles**

BT: Submersibles

RT: Untethered vehicles

### **Wet weight**

BT: Weight

RT: Density

Water content

### **Wetlands**

BT: Inland waters

NT: Marshes

Swamps

RT: Cheniers

Deltas

Flooding

Land reclamation

Stagnant water

Whale stranding

USE: **Stranding**

Whalebones

USE: **Baleens**

## ASFA THESAURUS

### Whaling

UF: Whaling techniques  
 BT: Hunting  
 NT: Artisanal whaling  
 RT: Blue whale unit  
   Whaling regulations  
   Whaling stations  
   Whaling statistics

### Whaling regulations

BT: Fishery regulations  
 RT: Blue whale unit  
   International agreements  
   Whaling

### Whaling stations

RT: Whaling

### Whaling statistics

SN: Catch tabulation of whales and allied species including derived industrial products  
 BT: Catch statistics  
 RT: Blue whale unit  
   Whaling  
   Wounding

### Whaling techniques

USE: **Whaling**

### Whelk fisheries

USE: **Gastropod fisheries**

### Whirling disease

UF: Tumbling disease  
 BT: Fish diseases  
 RT: Parasitic diseases  
   Swim bladder

### White muscles

USE: **Muscles**

### Whitecapping

BT: Wave breaking  
 RT: Wave dissipation  
   Whitecaps

### Whitecaps

BT: Breaking waves  
 RT: Foams  
   Whitecapping

### Whiting fisheries

USE: **Gadoid fisheries**

### Width

UF: Breadth  
 BT: Dimensions

### Wild fish stocks

USE: **Stocks**

### Wild spawning

SN: Before 1982 search  
   SPAWNING  
 UF: Uncontrolled spawning  
 BT: Spawning

### Wildlife conservation

USE: **Nature conservation**

### Wildlife refuges

USE: **Refuges**

### Winches

BT: Lifting tackle  
 RT: Fishing gear  
   Gear handling  
   Towing

### Wind

USE: **Winds**

### Wind abrasion

RT: Eolian transport  
   Scouring  
   Winds

### Wind constancy

RT: Variability  
   Wind power  
   Wind speed

### Wind data

BT: Meteorological data  
 RT: Wind direction  
   Wind fields  
   Wind measurement  
   Wind speed  
   Wind stress  
   Winds

### Wind direction

BT: Direction  
 RT: Weather maps  
   Wind data  
   Wind measurement  
   Wind roses  
   Wind speed  
   Wind vectors  
   Windrows  
   Winds

### Wind drift (current)

USE: **Wind-driven currents**

### Wind energy

USE: **Wind power**

### Wind erosion

BT: Erosion  
 RT: Soil erosion  
   Winds

### Wind fields

RT: Wind data  
   Winds

### Wind forces

USE: **Wind pressure**

### Wind generated waves

USE: **Wind waves**

### Wind loading

USE: **Wind pressure**

### Wind measurement

BT: Flow measurement  
 RT: Wind data  
   Wind direction  
   Wind measuring equipment  
   Wind power  
   Wind speed  
   Winds

### Wind measuring equipment

BT: Flow measuring equipment  
 NT: Anemometers  
   Balloons  
 RT: Flowmeters  
   Meteorological instruments  
   Radiosondes  
   Turbulence measurement  
   Wind measurement  
   Winds

### Wind power

UF: Wind energy  
 BT: Energy resources  
 RT: Power from the sea  
   Renewable resources  
   Wind constancy  
   Wind measurement  
   Wind pressure  
   Wind speed  
   Winds

### Wind pressure

SN: The force exerted on a structure by wind. Before 1983 search also WIND FORCES  
 UF: Wind forces  
   Wind loading  
 BT: Loads (forces)  
 RT: Wind power  
   Winds

### Wind profiles

UF: Wind speed profiles  
 BT: Velocity profiles  
 RT: Atmospheric boundary layer  
   Velocity gradients  
   Wind shear  
   Wind speed  
   Winds

## ASFA THESAURUS

### Wind roses

BT: Map graphics  
RT: Climatological charts  
Current roses  
Wind direction  
Wind speed

### Wind setup

SN: Use for changes in still water level due to wind stress in enclosed bodies of water  
UF: Setup (wind)  
Wind time  
RT: Lake dynamics  
Storm surges  
Water levels  
Wind stress

### Wind shear

BT: Shear  
RT: Current shear  
Vertical shear  
Wind profiles  
Wind speed  
Wind vectors

### Wind speed

UF: Wind strength  
Wind velocity  
BT: Velocity  
RT: Gusts  
Wave parameters  
Weather  
Weather maps  
Wind constancy  
Wind data  
Wind direction  
Wind measurement  
Wind power  
Wind profiles  
Wind roses  
Wind shear  
Wind vectors  
Wind wave parameters  
Winds

Wind speed profiles

USE: **Wind profiles**

Wind strength

USE: **Wind speed**

### Wind stress

UF: Surface stress  
BT: Stress (mechanics)  
RT: Atmospheric boundary layer  
Atmospheric forcing  
Drag  
Drag coefficient  
Ice drift  
Reynolds stresses  
Shear stress

Sverdrup transport

Wave parameters

Wind data

Wind setup

Wind stress curl

Wind wave generation

Wind wave parameters

Wind-wave interaction

Winds

### Wind stress curl

UF: Curl of wind stress

BT: Curl (vectors)

RT: Wind stress

Wind vectors

Wind systems

USE: **Winds**

Wind time

USE: **Wind setup**

### Wind tunnels

RT: Test equipment

Wind vanes

USE: **Vanes**

### Wind vectors

BT: Map graphics

Vectors

RT: Wind direction

Wind shear

Wind speed

Wind stress curl

Wind velocity

USE: **Wind speed**

### Wind wave generation

BT: Wave generation

RT: Air flow over water

Drag

Drag coefficient

Duration

Fetch

Momentum transfer

Surface roughness

Wind stress

Wind waves

Wind-wave interaction

### Wind wave parameters

BT: Parameters

RT: Duration

Fetch

Water depth

Wave properties

Wind speed

Wind stress

Wind waves

### Wind waves

UF: Wind generated waves

BT: Surface water waves

RT: Surface gravity waves

Surges

Swell

Wave climate

Wave recorders

Wind wave generation

Wind wave parameters

Wind-driven currents

Wind-wave interaction

### Wind-driven circulation

BT: Water circulation

RT: Ocean circulation

Surface circulation

Sverdrup transport

Thermohaline circulation

Wind-driven currents

### Wind-driven currents

SN: Search also DRIFT  
CURRENTS

UF: Barometric currents

Drift currents

Wind drift (current)

BT: Water currents

RT: Biological drift

Boundary currents

Coastal currents

Ekman spiral

Longshore currents

Nearshore currents

Ocean currents

Rip currents

Surface currents

Surface Ekman layer

Sverdrup transport

Upwelling

Wind waves

Wind-driven circulation

Winds

Wind-generated noise

USE: **Surface noise**

### Wind-wave interaction

BT: Wave interactions

RT: Air flow over water

Wind stress

Wind wave generation

Wind waves

### Windrows

BT: Slicks

RT: Cellular convection

Langmuir circulation

Surface films

Surface properties

Wind direction

## ASFA THESAURUS

### Winds

UF: Wind  
 Wind systems  
 BT: Atmospheric motion  
 NT: Gale force winds  
 Geostrophic winds  
 Local winds  
 Planetary winds  
 RT: Anticyclones  
 Atmospheric circulation  
 Atmospheric pressure  
 Atmospheric turbulence  
 Climate  
 Climatology  
 Cyclones  
 Eolian processes  
 Eolian transport  
 Fetch  
 Fluid flow  
 Gusts  
 Langmuir circulation  
 Sea level pressure  
 Storms  
 Tornadoes  
 Upwelling  
 Wind abrasion  
 Wind data  
 Wind direction  
 Wind erosion  
 Wind fields  
 Wind measurement  
 Wind measuring equipment  
 Wind power  
 Wind pressure  
 Wind profiles  
 Wind speed  
 Wind stress  
 Wind-driven currents

### Wings

SN: Before 1982 search  
 LOCOMOTORY  
 APPENDAGES  
 BT: Locomotory appendages  
 RT: Aquatic birds  
 Aquatic insects

### Winkle fisheries

USE: **Gastropod fisheries**

### Winkler method

BT: Analytical techniques  
 RT: Dissolved oxygen

### Winnowing

BT: Sediment sorting  
 RT: Particle settling

### Winter

BT: Seasons  
 RT: Cold season  
 Overwintering

Overwintering techniques  
 Winterkill

### Winter eggs

USE: **Resting eggs**

### Winterkill

SN: The loss of animals in a lake, pond or other water body as a result of heavy ice cover or mid-winter anoxia affecting eutrophic lakes  
 BT: Fish kill  
 RT: Anoxic conditions  
 Ice cover  
 Overwintering techniques  
 Oxygen depletion  
 Temperature effects  
 Winter

### Wire angle

### Wire rope

SN: Do not use for electric cables  
 UF: Steel wire  
 Wires  
 BT: Ropes  
 RT: Cable dynamics  
 Cables  
 Guide lines

### Wires

USE: **Wire rope**

### Within-year variations

USE: **Seasonal variations**

### Women

BT: Females

### Wood

BT: Materials

### Work boats

USE: **Support ships**

### Work platforms

UF: Platforms (work)  
 NT: Drilling platforms  
 Production platforms  
 RT: Barges  
 Cable ships  
 Dredgers  
 Drilling vessels  
 Factory ships  
 Fishing vessels  
 Fixed platforms  
 Offshore structures  
 Surface craft  
 Underwater habitats  
 Underwater structures  
 Underwater vehicles

### Workers

USE: **Personnel**

### Working locations

USE: **Locations (working)**

### Working underwater

UF: Divers work  
 Underwater work  
 NT: Cutting underwater  
 Surveying underwater  
 Welding underwater  
 RT: Diving  
 Diving bells  
 Diving industry  
 Diving physiology  
 Diving tools  
 Locations (working)  
 Saturation diving  
 Underwater equipment  
 Underwater habitats  
 Underwater photography  
 Underwater structures  
 Visibility underwater

### Workovers

USE: **Well workover operations**

### Workshops

USE: **Conferences**

### World

SN: Use for worldwide studies, e.g. economics, commodity statistics. For world geographic descriptors, see World Entries Facet in Geographic Authority List

### Worm culture

BT: Cultures  
 RT: Bait culture  
 Frog culture

### Wounding

BT: Catching methods  
 RT: Hunting  
 Whaling statistics  
 Wounding gear

### Wounding gear

UF: Harpoons  
 Impaling gear  
 BT: Fishing gear  
 RT: Spear fishing  
 Wounding

### Wounds

USE: **Injuries**

## ASFA THESAURUS

### **Wreck location**

BT: Detection  
RT: Surveying underwater  
Underwater object location  
Wrecks

### **Wreck recovery**

USE: **Salvaging**

### **Wrecks**

RT: Flotsam  
Navigational hazards  
Salvaging  
Ship losses  
Wreck location

### **X-ray analysis**

USE: **X-ray spectroscopy**

### **X-ray diffraction analysis**

BT: X-ray spectroscopy  
RT: Diffraction

### **X-ray emission analysis**

BT: X-ray spectroscopy

### **X-ray fluorescence analysis**

BT: X-ray spectroscopy

### **X-ray inspection**

BT: Inspection  
RT: X-ray spectroscopy  
X-rays

### **X-ray spectroscopy**

SN: Before 1982 search also X-RAY ANALYSIS  
UF: X-ray analysis  
BT: Spectroscopic techniques  
NT: X-ray diffraction analysis  
X-ray emission analysis  
X-ray fluorescence analysis  
RT: Chemical analysis  
Radiography  
X-ray inspection  
X-rays

### **X-rays**

BT: Electromagnetic radiation  
RT: X-ray inspection  
X-ray spectroscopy

### **Xanthophores**

USE: Chromatophores

### **Xanthophylls**

BT: Photosynthetic pigments  
RT: Photosynthesis

### **XBTs**

UF: Expendable bathythermographs  
BT: Bathythermographs

NT: AXBTs

RT: Thermistors

### **Xenon**

BT: Rare gases  
RT: Xenon isotopes

### **Xenon isotopes**

BT: Isotopes  
RT: Xenon

### **Xylene**

BT: Aromatic hydrocarbons

### **Xylose**

BT: Monosaccharides  
RT: Aldehydes

### **Yacht harbours**

USE: **Marinas**

### **Yachting**

BT: Boating  
RT: Yachts

### **Yachts**

BT: Sailing ships  
RT: Marinas  
Yachting

### **Yarns**

UF: Twine  
BT: Gear materials  
RT: Synthetic fibres

### **Yaw**

USE: **Yawing**

### **Yaw response**

BT: Dynamic response  
RT: Buoy motion effects  
Yawing

### **Yawing**

UF: Yaw  
BT: Ship motion  
RT: Buoy motion effects  
Rolling  
Yaw response

### **Year class**

RT: Age composition

### **Year to year variations**

USE: **Annual variations**

### **Yearly changes**

USE: **Annual variations**

### **Yeasts**

BT: Microorganisms  
RT: Fermentation

Single cell proteins

Yellow substance

USE: **Gelbstoff**

Yellow tail fisheries

USE: **Carangid fisheries**

### **Yield**

UF: Yield tables  
NT: Potential yield  
RT: Biological production  
Biomass  
Fishing mortality  
Overfishing  
Population number  
Recruitment  
Yield predictions  
Yield/recruit

### **Yield point**

BT: Mechanical properties  
RT: Collapse strength  
Deformation  
Strength

### **Yield predictions**

RT: Prediction  
Yield

Yield tables

USE: **Yield**

### **Yield/recruit**

RT: Recruitment  
Yield

### **Yolk**

RT: Cytoplasm  
Eggs  
Proteins  
Vitellogenesis

Yolk formation

USE: **Vitellogenesis**

### **Ytterbium**

BT: Lanthanides  
RT: Ytterbium isotopes

### **Ytterbium isotopes**

BT: Isotopes  
RT: Ytterbium

### **Yttrium**

BT: Alkaline earth metals  
RT: Yttrium isotopes

### **Yttrium isotopes**

BT: Isotopes  
RT: Yttrium

## ASFA THESAURUS

### **Zeolites**

BT: Silicate minerals  
 NT: Analcite  
     Clinoptilmonite  
     Phillipsite  
 RT: Metamorphic rocks

### **Zinc**

BT: Heavy metals  
 RT: Ferromanganese nodules  
     Metalliferous sediments  
     Zinc compounds  
     Zinc isotopes

### **Zinc compounds**

BT: Chemical compounds  
 RT: Zinc

### **Zinc isotopes**

BT: Isotopes  
 RT: Zinc

### **Zircon**

BT: Silicate minerals  
 RT: Placers  
     Zirconium

### **Zirconium**

BT: Heavy metals  
     Transition elements  
 RT: Ferromanganese nodules  
     Zircon  
     Zirconium compounds  
     Zirconium isotopes

### **Zirconium compounds**

BT: Chemical compounds  
 RT: Zirconium

### **Zirconium isotopes**

BT: Isotopes  
 RT: Zirconium

### **Zoeae**

BT: Crustacean larvae

### **Zonal distribution**

SN: Distribution East-West between  
     or along lines of latitude.  
     Used only as a qualifier  
 BT: Geographical distribution  
 RT: Hydrographic sections  
     Meridional distribution

Zonal wind systems

USE: **Planetary winds**

Zonation (ecological)

USE: **Ecological zonation**

### **Zoobenthos**

UF: Benthic fauna

BT: Benthos

RT: Aquatic animals

Zoogeography

USE: **Biogeography**

Zoological drawings

USE: **Illustrations**

### **Zoologists**

BT: Biologists  
 NT: Carcinologists  
     Entomologists  
     Ichthyologists  
     Malacologists  
     Mammalogists  
     Ornithologists  
 RT: Taxonomists  
     Zoology

### **Zoology**

BT: Biology  
 NT: Conchology  
     Invertebrate zoology  
     Vertebrate zoology  
 RT: Animal physiology  
     Animal populations  
     Aquatic animals  
     Biogeography  
     Embryology  
     Palaeontology  
     Species  
     Taxonomy  
     Zoologists

### **Zooplankton**

UF: Animal plankton  
     Macroplankton  
 BT: Plankton  
 NT: Holoplankton  
     Ichthyoplankton  
     Meroplankton  
     Sapropelkton  
 RT: Aquatic animals  
     Food organisms  
     Nekton collecting devices  
     Secondary production  
     Zooplankton culture

### **Zooplankton culture**

BT: Cultures  
 RT: Brine shrimp culture  
     Continuous culture  
     Cultured organisms  
     Zooplankton

Zoosemiotics

USE: **Animal communication**

Zoospores

USE: **Spores**

### **Zooxanthellae**

SN: Symbiotic unicellular  
     yellow-green algae occurring in  
     some radiolarians, flatworms  
     and polyps  
 BT: Algae  
 RT: Symbionts

### **Zygotes**

RT: Reproduction  
     Sexual cells