

AQUATIC SCIENCES AND FISHERIES INFORMATION SYSTEM

Aquatic Sciences and Fisheries Thesaurus

**Descriptors Used in the
Aquatic Sciences and Fisheries Information System**

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PREFACE

The publications comprising the ASFIS Reference Series define the rules, authority lists, formats, codes and procedures on which the ASFIS system is based, and therefore they are intended to ensure the consistency necessary for the computer processing and the uniformity within the resulting ASFIS information products. This Thesaurus is the "authority list" which indexers use to choose subject descriptors while preparing references for inclusion in the ASFA bibliographic database (the ASFA bibliographic database is the principal information module or output of the ASFIS system).

The Aquatic Sciences and Fisheries Information System (ASFIS) is an international, cooperative information system dealing with the science, technology and management relating to marine, brackish water and freshwater organisms and environments, including their socio-economic and legal aspects. The system is maintained jointly by the Food and Agriculture Organization of the United Nations (FAO), the Intergovernmental Oceanographic Commission of Unesco (IOC), United Nations/Division for Ocean Affairs and the Law of the Sea (UN/DOALOS) and the United Nations Environment Programme (UNEP) with the collaboration of numerous international and national institutes and organizations world-wide (i.e. the ASFIS/ASFA Partners). The ASFIS system's main output is the Aquatic Sciences and Fisheries Abstracts (ASFA) bibliographic database containing more than a 1 million references with abstracts and indexing, accessioned since 1971 (and earlier for specific subjects, journals or areas). Upwards of 4000 references are added to the database each month.

The references or input to the ASFA bibliographic database are prepared by a network of National, and International ASFA Partners, including the ASFA Publisher (ProQuest). The bibliographic references are sent to the Publisher where they are processed by computer and merged to create a master file (i.e. the ASFA database). The ASFA database is made available to the ASFA Partners in various formats or media (e.g. Internet, CD/DVD Rom, printed abstracts journals) for use as a source of data for local or national information services. The database is also made commercially available by ProQuest to the general public.

The bibliographic reference for each document in the ASFA database contains: 1) a detailed bibliographic citation, 2) an abstract; and 3) a set of indexing terms. The identification of the data elements making up the bibliographic citation, the writing of the abstract, and the choice of the indexing terms is the responsibility of the ASFA Partner.

Computer based information systems operate most successfully when the input (in this case bibliographic references) is prepared with a high degree of consistency and accuracy. This is true for any computer based system, but it is even more important in an international system like ASFA in which the preparation of input is highly decentralized. In order to attain the desired level of consistency and accuracy, it is necessary that all of the persons submitting references for inclusion in the ASFA database are trained in using a standardized: cataloguing, abstracting and indexing procedure.

The purpose of this Thesaurus is to assist the indexers, in the participating ASFA Partner institutes, in consistently choosing the most appropriate subject descriptors while preparing bibliographic references for inclusion in the ASFA database. Of course, **the Thesaurus is also of use to the "searcher" of the ASFA database**, and it is included as a tool or search aid in the interfaces to the computer searchable versions of the ASFA database.

For further information on ASFA, see the ASFA Home page (<http://www.fao.org/fi/asfa/asfa.asp>) and, in particular, the FAQ page <http://www.fao.org/fi/asfa/faq/faq.asp>

ACKNOWLEDGEMENTS (1986 Edition)

Compilation of this extensive terminology would not have been possible without the willing support of all personnel involved over many years in the development and production of Aquatic Sciences and Fisheries Abstracts (ASFA). This support by past and present members of the ASFA Advisory Board and indexing staff whose names are listed on the editorial pages of ASFA is gratefully acknowledged. Thanks are also due to many specialists in the FAO Fisheries Department, in the Institute of Oceanographic Sciences at Wormley, UK and in the Institute of Offshore Engineering, UK, who have suggested descriptors and defined concepts relevant to their fields of speciality.

To the compilers of this edition of the Thesaurus goes the credit for their unique and valuable achievement. The enormous task of structuring the terminology for the aquatic biology, biological oceanography, and living resource aspects was undertaken by Dr. Elda Fagetti of the FAO Fisheries Department; her dedicated efforts launched the development of this Thesaurus on a sound foundation. The entries relevant to the expanded scope of ASFA into physical oceanography, ocean technology and non-living resource aspects were added by Dr. D.W. Privett of the UK Institute of Oceanographic Sciences, Wormley, working under contract to FAO. To Mr. J.R.L. Sears of Cambridge Scientific Abstracts, Bethesda, MD., USA, goes the credit for suggesting a large number of descriptors and editing online the final print version of this Thesaurus. In addition to the compilers, acknowledgement goes to Arnold Myers (Institute of Offshore Engineering, IOE) who contributed to the vocabulary in marine technology; to Cinda Yates Gainch (Division of the Unesco Libraries, Archives and Documentation Services), who adapted the SPINES software to the ASFIS Thesaurus requirements and carried out the initial computerisation process.

Last but not least in this list of names go acknowledgements to Mr. E.F. Akyüz, Chief, Fishery Information, Data and Statistics Service, FAO, who made possible the realisation of this Thesaurus, to Mr. R. Needham, head of the Research Information Unit which is responsible for development of all of the ASFIS Reference Series, and to the ASFA staff of the same unit who in one way or another were involved in this lengthy task, particularly Mrs. Giovanna Sebastiani-Corbellini and Mrs. Luciana Lombardi-Gianandrea, for their invaluable and patient help at the keyboarding and proofreading stages of the Thesaurus.

ACKNOWLEDGEMENTS (2000 Edition)

Adding to the difficult task of updating a Thesaurus, the compiler of this edition (Ms Julia Hudson, IDC Consultants, Ottawa, Canada) took up the task following many years in which the Thesaurus's maintenance was left pending. During this revision (which was never formally published), the Thesaurus maintenance was moved to the OECD thesaurus management software (OECD's Multilingual Thesaurus Manager, MTM). Discussion and voting on the terms was undertaken by the ASFA Thesaurus Working Group then comprised of: Richard Pepe (FAO, ASFA Secretariat, Italy), Angela Hitti (CSA, USA), Jacqueline Prod'homme (IFREMER, France) and Wulf Kirchner (BF, Germany).

ACKNOWLEDGEMENTS (2009 Edition)

Periodic revisions to subject terminologies are required as the discipline continues to develop and mature.

The 2009 Edition (Revision 3) incorporates some 200 further entries compiled from two draft lists of amended and new terms. The first list was the collation of the suggestions sent by ASFA Partners. The second was drawn up by the FAO ASFA Secretariat from a review of the FAO Fisheries Glossary. The major work of compiling, circulating and coordinating these lists was undertaken by Ms Linda Noble (National Marine Biological Library, Plymouth, UK) and Ms Helen Wibley (ASFA Secretariat, Rome, Italy). Discussion and voting on the terms was undertaken by the ASFA Thesaurus Working Group which was re-established at the 2006 ASFA Board meeting. The members of this Group were Richard Pepe and Helen Wibley (FAO, ASFA Secretariat), Craig Emerson and Vicki Soto (ProQuest), Linda Noble (NMBL/UK), Jacqueline Prod'homme (IFREMER) and Ian Pettman (FBA/UK).

The thesaurus revision was carried out by Ian Pettman (Freshwater Biological Association, The Ferry Landing, Ambleside, Cumbria, U.K) using the MultiTes Pro thesaurus software. Acknowledgment goes to the efforts of Ian Pettman, who, besides incorporating the revisions and making the necessary structural adjustments, also provided outputs for the print version of the Thesaurus and for other computer formats (XML, OWL and SKOS) for various other potential future applications (e.g. ontologies, GIS).

CONTENTS

PREFACE	iii
ACKNOWLEDGEMENTS	v
INTRODUCTION	ix
1. PURPOSE AND COVERAGE OF ASFIS THESAURUS	ix
1.1 Purpose.....	ix
1.2 Status of Thesaurus Development	x
1.3 Background.....	x
1.4 Field coverage of the ASFIS Thesaurus.....	xi
2. RULES AND CONVENTIONS	xii
2.1 Standardization and control of terms.....	xii
2.1.1 Spelling rules.....	xii
2.1.2 Noun and adjective forms.....	xii
2.1.3 Singular and plural forms.....	xii
2.1.4 Abbreviations, initials and acronyms.....	xiii
2.1.5 Alphabetisation.....	xiii
2.2 Multiple-word entries.....	xiii
2.3 Use of characters.....	xiii
2.3.1 Character sets.....	xiii
2.3.2 Punctuation.....	xiv
3. SELECTION AND DEFINITION OF TERMS	xiv
3.1 Term Selection.....	xv
3.2 Term definition.....	xv
4. SPECIFICITY AND PRE-COORDINATION	xv
5. COMPUTER LOADING, CHECKING AND DEVELOPMENT	xv
6. THESAURUS CLASSIFICATION, STRUCTURE AND NOTATION	xvi
6.1 Thesaurus structural relations.....	xvi
6.2 Notation.....	xvi
6.2.1 Scope notes.....	xvi
6.2.2 Alternative relations and synonymy.....	xvi
6.2.3 Hierarchical relations.....	xvi
6.2.4 Associative or affinitive relations.....	xvi
7. GUIDELINES FOR TERM SELECTION BY USER	xvii
8. BIBLIOGRAPHY	xix
9. THESAURUS TERMS	1
10. ASFA THESAURUS TERMINOLOGY CONTROL FORM	313

Introduction

by

Elda Fagetti, FAO
(Revised by Ian Pettman, FBA)

1. PURPOSE AND COVERAGE OF THE ASFIS THESAURUS

1.1 Purpose

The ASFIS Thesaurus has been conceived so as to correspond to the objectives of the ASFIS system. It permits the subject indexing and retrieval of information on all aspects of aquatic sciences and technology, exploitation of living and non-living resources, related policy, social and economic aspects, processing and marketing of aquatic products, as recorded and stored in the Aquatic Sciences and Fisheries Information System's ASFA database. So far as can be ascertained, this is the only Thesaurus devoted to this broad field of knowledge. This Revision 3 supersedes the "Thesaurus of Terms for Aquatic Sciences and Fisheries" published in 1976 as FAO Fisheries Circular number 344, the "Aquatic Sciences and Fisheries Thesaurus" published in 1986 as ASFA Reference Series No.6, Revision 1, and "Aquatic Sciences and Fisheries Thesaurus" published in 2000 as ASFA Reference Series No.6, Revision 2.

1.2 Status of Thesaurus Development

It is perhaps worthwhile to emphasize that a technical thesaurus is not concerned with "semantic perfection" or exact hierarchy of scientific disciplines. Its structure is developed in accordance with the pragmatic requirements of information retrieval. The terminology presented in this publication has resulted from the experience gained in indexing over 1,300,000 records for inclusion in the Aquatic Sciences and Fisheries Abstracts database during 1971-2008. Extensive reference has been made to other related authority lists, thesauri, term glossaries and dictionaries. A list of these can be found in the bibliography. Nevertheless, terminology relevant to any area of scientific/technological development grows hand-in-hand with that development, and no thesaurus can ever be regarded as final.

The effort of compiling a more comprehensive Thesaurus for ASFIS and its ASFA database will take several more years. Rather than tolerate further delay in revising the now outdated 2000 edition, the ASFA Advisory Board has chosen to publish this Thesaurus now. Users may find some topics within the scope of ASFIS still not satisfactorily covered. To facilitate revision and up-dating, comments on and/or criticisms of the Thesaurus are welcome. Such comments/criticisms as well as suggestions for new terms to be added to the Thesaurus should be submitted on the forms found in this Thesaurus to:

Fisheries and Aquaculture Information and Statistics Service (FIES)
Attention: ASFA
Fisheries and Aquaculture Department
Food and Agriculture Organization of the United Nations
00153 Rome, Italy

The Thesaurus covers only subject index terms and should be used in conjunction with the ASFIS Guidelines for Subject Categorisation and Indexing - (ASFIS-5) - and the other ASFIS indexing tools, namely ASFIS Geographic Authority List - (ASFIS-7) - for geographic indexing and the ASFIS List of Species for Fishery Statistics Purposes (ASFIS -15), for taxonomic indexing.

1.3 Background

This thesaurus has evolved hand-in-hand with the growth of interest in aquatic ecosystems (both marine and freshwater) during the last 45 years, and the accompanying problems in handling the rapidly increasing volume of relevant scientific and technical literature.

In 1964, as a result of a collaborative programme with the University of Rhode Island, FAO published a *List of classification terms and subject descriptors*. In 1970, when arrangements were being made for the cooperative publication of the *Aquatic Sciences and Fisheries Abstracts (ASFA)* journal, the Informations and Dokumentationsstelle of the Bundesforschungsanstalt für Fischerei (Hamburg, Germany FR), undertook to further develop and classify this list. This work resulted in a considerably enhanced terminology (1971, revised 1974) which was used to index citations appearing in ASFA during this period.

In this next phase, FAO structured this terminological authority to produce a draft structured thesaurus (1974) which was evaluated in the production of a new experimental index for the 1975 volume of ASFA and used to index ASFA documents until the revised and enlarged version was published by FAO (FAO, 1976). This was widely distributed among ASFA indexers and users, specialised libraries and information systems over the world. It has been translated into Spanish (Mileo, A.T., 1981 and 1985) and French, following the IOC Executive Council recommendation of May 1979 (IOC/EC - X1.13) that "the Secretary of IOC makes arrangements when required for the translation of the terms in the enlarged ASFIS Thesaurus (ASFIS-6) through interested international institutions and member states, in particular in conjunction with ASFIS centres and other centres of excellence, having the necessary linguistic competence."

The widening of the ASFA scope in 1978 to cover also non-living resources and their exploitation called for additional appropriate terminology which was developed hand-in-hand with the development of ASFA-2: *Ocean Technology, Policy and Non-Living Resources*. The 1986 ASFIS Thesaurus (ASFIS-6, Revision 1) included therefore the original ASFA terminology in use since its origin plus additional terms relevant to the enlarged scope of ASFA or to the overall scope, in accordance with the development of the system.

The further widening of the scope in 1990 to include pollution and contamination called for additional appropriate terminology which was developed hand-in-hand with the development of ASFA-3: *Aquatic Pollution and Environmental Quality*. This resulted in the production of ASFIS-6, Revision 2 in the year 2000.

As for the previous editions, additions to the terminology for the production of this revision (ASFIS-6, Revision 3, 2009) have been based mainly on suggestions received from the international network of ASFIS input centres as well as from other aquatic and fisheries information systems.

Changes have been kept to the strictly necessary in order to keep consistency in the ASFA indexing vocabulary already well established over many years. For additional descriptors or changed descriptors, information is included in their SN giving the year in which their use was initiated as far as possible. Changed descriptors are also cross-referred to corresponding descriptors used in previous years.

As demonstrated by the previous edition, the Thesaurus will continue to exercise its influence over the standardisation of the English terminology relevant to the science and technology of the aquatic environment. It has already been adopted in a variety of emerging national and international information systems.

1.4 Field coverage of the ASFIS Thesaurus

The specialised field coverage of the ASFA Thesaurus can be divided into a core area which is treated in depth at very specific levels and peripheral areas requiring less refined treatment and treated only when relevant to the ASFA scope.

Strictly Core Areas

Aquatic natural and applied sciences such as:

Biology	Aquaculture
Ecology	Geology
Environmental sciences	Geophysics
Oceanography	Meteorology and climatology
Limnology	Fisheries sciences

Technology and Engineering such as:

Marine technology	Fishing technology
Ship technology	Fish food technology

Living and non-living resources exploitation and processing, such as:

Fishable stocks	Cultured stocks
Fishery products	Freshwater from the sea
Energy from the sea	Chemicals from the sea
Minerals from the sea	Oil and gas

Aquatic pollution and its effects in organisms

Aquatic environmental changes, conservation, public health

Social, economic and policy relevant aspects

Marginal or peripheral areas

Exact and natural sciences, such as:

Biology	Chemistry
Mathematics	Physics
Space sciences	Statistical sciences

Human and social sciences:

Development sciences	Economics
History	International relations
Pedagogy	Management

Applied sciences and technologies

Engineering relevant sciences	Information sciences
Medical sciences	Transport technology
Power technology	Potable and waste water treatment technology

2. RULES AND CONVENTIONS

2.1 Standardisation and control of terms

In order to allow for coincidence between the indexing language and the searching language the ASFIS Thesaurus includes two types of terms, descriptors and non-descriptors.

Descriptors or allowable (permitted) terms are those which have been accepted by the systems for describing a concept and which are therefore used in indexing and consequently also for retrieval. The present version of the ASFIS Thesaurus includes over 6,200 descriptors.

Non-descriptors or forbidden (or unauthorised) terms include true synonyms, quasi-synonyms, word forms, different (American) spelling or very specific terms which are grouped for indexing (or retrieval) purposes into a conceptually broader term. They are followed by a USE reference which leads to the relevant descriptor. Therefore they are also known in controlled language systems as "lead-in terms." The present version includes 3,700 non-descriptors.

2.1.1 Spelling rules

The following rules have been followed:

British English rather than American English has been adopted for the descriptors. Where American spelling is used, or where alternative English spellings are available, they have been cross-referred to the preferred descriptors.

2.1.2 Noun and adjective forms

All descriptors have a "substantive" (or "noun") form.

Usually "common" adjectives are pre-coordinated with nouns and entered as compound descriptors to avoid (i) inconsistency in indexing and (ii) false combinations during retrieval, for example: "marine" pre-coordinated in:

MARINE ORGANISMS
MARINE PARKS
MARINE POLLUTION
MARINE TECHNOLOGY, etc.

and "international" pre-coordinated in:

INTERNATIONAL AGREEMENTS INTERNATIONAL LAW
INTERNATIONAL POLICY, etc.

Only a very small proportion of single word terms in adjectival or adverbial form are entered, with the instruction in SN "To be used only as a qualifier." This is for the benefit of practicality and flexibility, for adjectives in recurrent or common use, for example:

ANNUAL, MONTHLY, etc.

Prepositions are avoided in noun phrases (pluriterms), for example: "Technology transfer" instead of "Transfer of technology." The following exceptions were made because the form with the preposition is the most familiar:

LAW OF THE SEA,OIL AND GAS and its compound descriptors, EQUATIONS OF STATE

2.1.3 Singular and plural forms

The general rule adopted is that *plural form* be given preference, whenever possible. It was always adopted for generic processes, phenomena, operations, properties, materials, instruments, entities, for example:

FISHERIES
BIOLOGICAL PHENOMENA
CHEMICAL PROPERTIES FISH
DISEASES
MEASURING DEVICES

Singular form is used for specific processes, properties and phenomena, specific materials, proper chemical names and disciplinary areas, which are acceptable only in the singular:

DECANTATION
DENSITY
GUANO
GROWTH
IRIDIUM
CHEMISTRY

When singular or plural forms of a term imply two different concepts, compound descriptors are used to avoid ambiguities, for example:

"coating" as a process is entered as COATING PROCESSES

"coatings" as an entity is entered as a synonym of COATING MATERIALS.

2.1.4 Abbreviations, initials and acronyms

As a general rule, abbreviations for descriptors have been avoided. Exceptions are:

- abbreviations which are universally accepted and do not give rise to misinterpretations, especially when appearing in their clustered structure e.g. DDT, RNA
- if the expanded form of the term is excessively long.

However, the expanded form of the term appears always as a synonym with a cross-reference, or in the scope notes.

2.1.5 Alphabetisation

Alphabetisation is based on word-by-word arrangement, according to the following sequences: spaces, special characters (full stop, hyphen, parenthesis) and letter in usual order.

2.2 Multiple-word entries

Both single-word descriptors and multiple-word descriptors have been used. Multiple-word entries (consisting of two or more words) are necessary to modify, define or specify scientific and technical concepts. In the field of aquatic sciences, this is particularly needed because the distinct environments (marine, fresh and brackish water) frequently imply particular research disciplines (e.g. MARINE GEOLOGY), different flora and fauna (e.g. FRESHWATER MOLLUSCS), or specialised techniques. (ESTUARINE FISHERIES). Other compound descriptors have been used to express concepts that should not be separated, for example BIOLOGICAL DEVELOPMENT; this helps to overcome retrieval problems associated with high-frequency usage of terms such as BIOLOGY and DEVELOPMENT.

Multiple-word descriptors are mainly entered with the words in their natural order, for example, MARINE POLLUTION and cross-referred to the hidden-words in the descriptors "pollution (marine)" as lead-in-terms. The first word in a multiple-word entry is always used in the singular form and the entry is cross-referred to the non-descriptor (and vice versa) when the plural is also in common use, for example FISHERY MANAGEMENT OF "fisheries management."

2.3 Use of characters

2.3.1 Character sets

The general rules adopted for the alphabetical structured list follows the following printing format:

- all descriptors are printed in bold font
- all non-descriptors (UF references) are printed in standard font

2.3.2 Punctuation

Punctuation marks have been kept to a minimum

- Diacritical marks are avoided
- Prefixes are usually connected to the stem, for example

MICROFORMS
MICROHABITATS

- Hyphens have been retained only when this is common practice or when omission may alter the meaning of the term, for example:

RHODAMINE B-DYE
SHORT-CRESTED WAVES
POLE-LINE FISHING
AIR-ICE INTERFACE, etc.

and for letter-word combinations, for example:

X-RAY ANALYSIS
S-WAVES

The space occupied by the hyphen is:

- (i) Left blank for some compound adjectives, noun-noun combinations, where this is common practice, for example:

IN SITU DENSITY

- (ii) dropped in attaching prefixes (adverbs) to the base word (stem), where this is common practice, for example:

NONDESTRUCTIVE TESTING
MULTISPECIES FISHERIES
MONOSEX CULTURE

- Slash is used only for the following compound descriptors, because of their common use in the specialised languages:

T/S DIAGRAMS and CATCH/EFFORT

- Periods and commas are used only in scope notes.
- Parentheses are used only for very few descriptors, as specified below, which need parenthetical definition and in non-descriptors resolved by inversion i.e. "reaction (chemical)" use CHEMICAL REACTIONS. Inversion was adopted, in general, with some exceptions, e.g.:

RESERVOIRS (WATER)
HABITAT IMPROVEMENT (CHEMICAL)
HABITAT IMPROVEMENT (PHYSICAL)
HABITAT IMPROVEMENT (FERTILIZATION)
LOCATIONS (WORKING)

3. SELECTION AND DEFINITION OF TERMS

As already mentioned in the introduction the ASFIS controlled vocabulary has developed hand-in-hand with the development of the Aquatic Sciences and Fisheries Abstracts journal. The ASFA indexers suggested terms in accordance with their experience in indexing documents for ASFA entries. The compilers selected among the suggested terms those more frequently requested or those that were considered necessary for indexing at more specific levels. Specialised relevant nomenclature bulletins, dictionaries and thesauri, as listed in the bibliography, were consulted for term selection and definition.

3.1 Term Selection

The main sources of term selection were:

- (1) *Aquatic Sciences and Fisheries Thesaurus* (FAO, 1986)
- (2) the indexing of ASFA-3 documents from 1990 to 2000
- (3) the suggestions of ASFA Partners
- (4) Thesauri, Dictionaries and Glossaries as listed in the selected bibliography

3.2 Term definition

The inter-relationships given in the Thesaurus supply a kind of definition by grouping terms in their semantic relations. A rough definition of the terms, when this is needed, is given in the scope notes. Usually to:

- restrict the usage of a broad descriptor within the context of the ASFIS system's scope.
- clarify the exact meaning of key specialised terms
- to give the corresponding descriptors used in previous years
- to explain the meaning of certain non-English terms
- to indicate that the descriptor is to be used only as a qualifier
- to recommend, in the case of a few "umbrella terms," i.e. terms with a very broad meaning, to select and use a more specific, or alternative, descriptor, among those listed below as NTs or RTs.

4. SPECIFICITY AND PRE-COORDINATION LEVEL

Due to the wide scope of ASFIS which covers three well-defined aquatic environments and bio-ecological as well as physico-chemical oceanographic sciences and technologies, a high level of specificity is necessary to ensure precision performance both at the input and the retrieval stages. To avoid confusion of descriptors which have a different meaning if applied to bio-ecological aspects or to physico-chemical aspects, the pre-coordination of terms by multiword descriptors has been very frequently adopted e.g.

BIOTESTING UF BIOLOGICAL TESTING, to distinguish from more general TESTING procedure etc.
BIOLOGICAL DAMAGE to distinguish from DAMAGE as resulting from accident or fire.

The same pre-coordination level was adopted for the terminology which refers to a specific aquatic environment in order to give to the relevant descriptors more specificity as requested by the specialised technology in use, or by the organisms involved e.g.

AQUACULTURE as broader term, but also MARINE AQUACULTURE, FRESHWATER AQUACULTURE and BRACKISHWATER AQUACULTURE.

Very general descriptors which are too generic or too conceptually broad for precise indexing and retrieval purposes have been included only with the function of recalling under a single generic "umbrella" term, the pre-coordinated specific descriptors among which to select the most relevant one e.g.

CONTROL and EQUIPMENT followed by the hierarchical display of narrower pre-coordinated descriptors or PROPERTIES followed by a non-hierarchical list of pre-coordinated descriptors as related terms.

5. COMPUTER LOADING, CHECKING AND DEVELOPMENT

Following automation via the MultiTes Pro software, the Thesaurus was converted and edited by the Freshwater Biological Association leading to this print and online version of the ASFIS Thesaurus.

6. THESAURUS CLASSIFICATION, STRUCTURE AND NOTATION

6.1 Thesaurus structural relations

As in previous editions, this Thesaurus is structured to display commonly accepted relationships - preferential, hierarchical and affinitive.

6.2 Notation

6.2.1 Scope notes

SN (scope note), a rough definition of the scope of the term where this is needed (usually for limitation). Scope notes also indicate the date, year in which additional descriptors to the 1976 version entered into use ("Added in...") and the dates when previous descriptors were changed, in which case indication is also given of descriptors previously used ("Before...search...").

The scope notes of a few "umbrella" terms included in the thesaurus recommend the use of alternative or more specific descriptors as listed below, at hierarchical or related levels.

6.2.2 Alternative relations and synonymy

USE directs the user from a non-descriptor to the relevant descriptor; UF (used for) is the reciprocal relationship to USE.

The USE-UF cross-relationship is used in a variety of situations:

- for synonyms or near synonyms

<i>man-made lakes</i>	USE ARTIFICIAL LAKES
<i>chorology</i>	USE BIOGEOGRAPHY
- to indicate preference in spelling

<i>hematology</i>	USE HAEMATOLOGY
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- to designate a mandatory generically broader descriptor

<i>coastal aquaculture</i>	USE MARINE AQUACULTURE
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- to designate a preferred, closely related, descriptor

<i>commercialization</i>	USE MARKETING
--------------------------	---------------
- to indicate preferred (natural) word order

<i>reactions (chemical)</i>	USE CHEMICAL REACTIONS
<i>pollution (marine)</i>	USE MARINE POLLUTION
- to refer from specific commonly-used parameters to the phenomena or properties which they quantify, for example:

<i>metabolic rate</i>	USE METABOLISM
<i>respiratory quotients</i>	USE RESPIRATION
<i>fishing mortality coefficients</i>	USE FISHING MORTALITY

6.2.3 Hierarchical relations

ASFIS Thesaurus includes mainly generic hierarchical relations, in which the generic descriptor (broad term) represents a class of concepts expressed by its specific descriptors (narrower terms).

BT (broader term):	DISEASES (generic)
NT (narrower term):	FISH DISEASES
	PLANT DISEASES

6.2.4 Associative or affinitive relations

The non-hierarchical relations, direct the users to alternative descriptors in the event that the lead descriptor is conceptually inappropriate. They are known as related terms and entered as RT. Related terms in the ASFIS Thesaurus are displayed also:

- to indicate antinomy

AESTIVATION	RT	HIBERNATION
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- to suggest possible concurrent use of two concepts
ESCAPEMENT RT MESH SELECTIVITY
- to indicate an affinitive relationship other than hierarchic
AQUACULTURE RT AQUACULTURE TECHNIQUES (ie. instrumental relationship)
WATER POLLUTION RT POLLUTION EFFECTS (i.e. cause/effect relationship)

7. GUIDELINES FOR TERM SELECTION BY USER

It is difficult to lay down a coherent set of rules for subject indexing where different research disciplines and technologies are involved, but users of this Thesaurus should be aware of certain general considerations:

Only the essential scientific technical concepts, which are necessary for retrieval of the document abstracted, should be indexed;

Be specific by using the available keyword at the nearest level of specificity.

Example: if a paper deals with migration of juvenile tuna to feeding grounds, do not use MIGRATIONS as descriptor but the more specific keyword FEEDING MIGRATIONS;

Use a combination of descriptors where needed, even if this involves the redundancy of using "stem synonyms."

Example: if a paper deals with mesh selectivity of a certain type of fishing net for fishery regulation purposes, use both relevant descriptors MESH SELECTIVITY and MESH REGULATIONS plus other related descriptors, e.g., TRAWLS;

Use complimentary descriptors where needed for a particular aquatic environment (marine, freshwater and brackishwater environment) and its organisms.

Example: (a) if a paper deals with oyster culture in the Ribadeo estuary, use both descriptors OYSTER CULTURE and BRACKISHWATER AQUACULTURE;
(b) if a paper deals with the effects of pollution on an oceanic species, use both descriptors MARINE POLLUTION and POLLUTION EFFECTS plus the relevant taxonomic entry;

Descriptors referring to very broad concepts - "umbrella" terms - which have been included to facilitate retrieval of the related specific descriptors *should not* be used alone (i.e. without an additional subject descriptor which is more specific, for example:

METHODOLOGY may serve as qualifier for a more specific entry such as SHRIMP CULTURE when the paper dealt with describes methods in use;

Index always with subject descriptors plus the taxonomic entry (in the appropriate tag of the Indexing Form) those papers that deal with aquatic animals and plants, for which only vernacular names are given.

Example: (a) a paper dealing with tuna fishery in the World Ocean should be indexed by the relevant subject descriptors TUNA FISHERIES and PELAGIC FISHERIES plus the taxonomic entry SCOMBRIDAE;
(b) a paper dealing with carp culture should be indexed by both relevant subject descriptors FRESHWATER AQUACULTURE and FISH CULTURE plus the taxonomic entry CYPRINIDAE;

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9. THESAURUS TERMS

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

Aboriginal fishing

USE: **Indigenous fishing**

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

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

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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

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 command systems
 Acoustic telemetry
 Acoustic transponders
 Remote control

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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**

Acoustic tags
 USE: **Sonic tags**

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

Acoustic tomography
 BT: Acoustic imagery
 RT: Acoustic holography
 Tomography

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**

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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**

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

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

Aetiology
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

ASFA THESAURUS

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: **Ageing**

Ageing (biological)

USE: **Biological aging**

Agents

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

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Agropisciculture

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

Aid

NT: Fishery aid
 Food aid

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**

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

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**

Air-deployed expendable bathythermographs

USE: **AXBTs**

Air-ice interface

UF: Ice-air interface
 BT: Interfaces
 RT: Ablation
 Evaporation
 Heat exchange
 Ice
 Ice caps

Airports

RT: Aircraft

Air-sea coupling

RT: Air-sea interaction
 Meteorology
 Ocean-atmosphere system
 Ocean-ice-atmosphere system

Air-sea exchanges

USE: **Air-water exchanges**

ASFA THESAURUS

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

Airy waves
 USE: **Linear waves**

Alanine

BT: Amino acids

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
 Alciculture
 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

ASFA THESAURUS

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

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. Before 2008
search ALLELLES
UF: Alleles
BT: Genes
RT: Gene pool

Alleles

SN: (Genes for) paired characteristics
USE: **Alleles**

Allelopathy

SN: Chemical inhibition of one
species by another through the
release of the "inhibitory"
chemical into the environment
where it affects the development
and growth of neighbouring
plants.
BT: Chemical defence

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

ASFA THESAURUS

- 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**
- 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

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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**

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

ASFA THESAURUS

- Spatial analysis
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
RT: Anatomy
Animal physiology
Cells
Tissues
- Anatomy**
BT: Biology
RT: Anatomical structures
Histology
Organism morphology
Osteology
Physiology
Tomography
- Anchor stations
USE: **Cruise stations**
- Anchorage**
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

Animal nutrition

UF: Finfish nutrition
 Fish nutrition
 Shellfish nutrition
 Shrimp nutrition
 Tilapia 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

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

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- 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
- 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**
- 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
- Antihelminthes pesticides
USE: **Antihelminthic agents**

Anthelmintic 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**

Anti-submarine warfare

USE: **Undersea warfare**

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

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**

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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
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

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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
Biotopes
Ecosystems
Environment management
Environmental degradation
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
NT: Freshwater plants
Macrophytes
Marine plants
RT: Algology
Alkaloids
Biogeography
Botanical resources
Botany
Emergent vegetation
Fishery resources
Fungi
Phytobenthos
Phytohormones
Phytoplankton
Phytosociology
Plant culture
Plant utilization
Pleuston
Rare species
Weeds

Aquatic pollution

USE: **Water pollution**

Aquatic reptiles

UF: Freshwater turtles
Marine turtles
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

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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
Sabhkas

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

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

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Artificial satellites
USE: **Satellites**

Artificial sea grass
BT: Sea grass

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
Handling
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
Gemules
Plant reproductive structures
Sporangia
Spores
Vegetative reproduction

Ash content
RT: Ashes

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

Assemblages
USE: **Ecological associations**

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

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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

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

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- 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**
- 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
Fish aggregating devices
- 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

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

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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 runup
Waves on beaches

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

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

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 nets

SN: Usually constructed in tidal waters and made of various materials (stakes, branches, reeds, netting, etc.). Differ from fixed gillnets which, when the tide ebbs, may eventually allow the fish not entangled or gilled to pass freely underneath their bottom line. Include : Fences, Weirs, Corrals

USE: **Fishing barriers**

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**

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

Basalt-seawater interaction

BT: Hydrothermal activity
RT: Hydrothermal alteration
Palagonite

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

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

Beach erosion

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

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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
Tombolos
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
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**

BEDs

USE: **By-catch excluder devices**

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
 Surfacing 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: **Phytobenthos**

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**

Benthic fish

USE: **Demersal fish**

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
 Demersal fish
 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

Best practices

SN: Technique or methodology that through experience and research has proven to be reliable and to lead to a desired result or successful result.

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

Biocalcarenite

BT: Carbonate rocks
RT: Calcarenite

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
 Biotopes
 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

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

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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 contamination

USE: **Microbial contamination**

Biological control

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

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

Biomaniipulation

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

Biomathematics
 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**

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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
 Biotopes
 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
 RT: Biology
 Biosynthesis
 Biotelemetry
 Genetically Modified Organisms
 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

Bioteasing

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 entanglement

BT: Entanglement

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**
- 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**

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

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
 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-borne 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
 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: **Acyclic hydrocarbons**

Breadth

USE: **Width**

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

Break-point bars

BT: Nearshore bars

RT: Beach profiles

Breaking waves

Deposition features

Longshore bars

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**

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: Pontoons

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**

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**

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
 Non-target species
 RT: Byproducts
 Catch composition
 Catch/effort
 Discards
 Fish catch statistics
 Shellfish catch statistics

By catch Reduction Devices

USE: **By-catch excluder devices**

By-catch

USE: **By catch**

By-catch excluder devices

SN: Device inserted in fishing gear to allow escapement, alive, of unwanted species (including medusae) or individuals (juveniles) or endangered species (e.g. seals, turtles, dolphins).
 UF: BEDs
 By catch Reduction Devices
 NT: Turtle excluder devices

Byproducts

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

By-products

USE: **Byproducts**

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: **Cabbeling**

Cabbeling

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: **Cabbeling**

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 metal compounds

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

Calcarenite

BT: Carbonate rocks

RT: Biocalcarenite

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

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

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 sinks
 Carbon/nitrogen ratio
 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
 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 sinks

RT: Carbon

Carbon sulphides

BT: Carbon compounds
 Sulphides

Carbon/nitrogen ratio

BT: Ratios
 RT: Carbon
 Nitrogen

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**

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**

CAT scan

USE: **Tomography**

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
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

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

cDNA

BT: DNA

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

Cell membranes

UF: Cytoplasmic membranes
Membranes (cells)
Nuclear membranes
Plasma membranes
Plasmalemma
BT: Cell constituents
Membranes
NT: Ion channels
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: Ecolabelling
Evaluation
Performance assessment
Quality control
Reliability
Tests

Cesium

USE: **Caesium**

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

ASFA THESAURUS

- 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
 Dissolved chemicals
 Fixatives
 Inorganic acids
 Polymers
 Salts
- Chemical constituents
 USE: **Chemical composition**
- Chemical contamination
 USE: **Chemical pollution**
- 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**
 NT: Allelopathy
 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
 NT: Endocrine disruptors
 RT: Carcinogens
 Chemical fertilizers
 Chemical pollution
 DDT
 Detergents
 Industrial wastes
 Paints
 PCB
 Pesticides
 Phenols
 Phthalate esters
- Chemical pollution**
 UF: Chemical contamination
 BT: Pollution
 RT: Agricultural pollution
 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
 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

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**

Chicken-fish culture

USE: **Agropisciculture**

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
Dioxins
Furans
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

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: Erytrophores

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**

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
NT: Global warming
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

Climatic maps
USE: **Climatological charts**

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

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

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
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: Coagulants
BT: Agents
RT: Anticoagulants
Chemical precipitation
Coagulation
Drugs

Coagulation

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

Coagulants

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**

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 planning

USE: **Coastal zone management**

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

Coastal waters

UF: Inshore 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

UF: Coastal planning

BT: Ecosystem management

NT: Integrated coastal zone management

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**

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

Cohort analysis

USE: **Virtual population analysis**

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

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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

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
 - Epizootics
 - 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
 - Underfishing
- 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
- RT: Fishing capacity

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**

Community fishing

SN: A fishing activity exerted in public or communal waters generally designed to meet community needs
USE: **Sport fishing**

Community planning

BT: Planning

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
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

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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

Computed tomography
USE: **Tomography**

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

Computerized axial tomography
USE: **Tomography**

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

Conch culture
USE: **Mollusc culture**

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**

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**

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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
UF: Stream conservation
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**

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
Momentum

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

USE: **Pollution**

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
 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 shelves
 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**
- 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
- Copepod culture
 USE: **Crustacean culture**
- 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

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
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**

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

UF: Copepod 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

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

CT scan

USE: **Tomography**

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
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**

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

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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

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

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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**

Cuspate 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**

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

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

ASFA THESAURUS

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

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**

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

Decision support systems

SN: Computer-based system that assists one in the process of making a decision
BT: Information systems

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

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
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
Environmental degradation
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

De-icing

USE: **Deicing**

Deicing equipment

UF: De-icing equipment
BT: Equipment
RT: Deicing
Ice prevention
Icing

De-icing equipment

USE: **Deicing equipment**

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

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 fish

SN: Bottom feeding fish
UF: Benthic fish
Ground fish
Groundfish
BT: Fish
RT: Benthos
Demersal fisheries

Demersal fisheries

BT: Fisheries
RT: Bottom trawling
Crustacean fisheries
Demersal fish
Finfish fisheries
Lagoon fisheries
Lake fisheries
Longlining
Marine fish
Marine fisheries

Demineralization

UF: Salts extraction
BT: Separation processes
RT: Distillation
Ion exchange

Demography

SN: Study of birth rates, death rates, age distributions, and size of human populations. For studies on animal populations, use Population structure or Population dynamics
RT: Sociological aspects

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

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: Densimeters
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

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
 Bathythermographs
 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

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

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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

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

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**

Dioxins

UF: Polychlorinated
dibenzodioxins
BT: Chlorinated hydrocarbons

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

Disasters (man-made)

USE: **Accidents**

Disasters (natural)

USE: **Disasters**

Discard catch

USE: **Discards**

Discarded catch

USE: **Discards**

Discards

SN: Fish released/returned to the sea, dead or alive, whether or not brought fully on board a fishing vessel.

UF: Discard catch
Discarded catch

RT: By catch

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**

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

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
Fishing by diving
Search and rescue
Spear fishing
Surveying underwater
Underwater exploration
Underwater medicine
Visibility underwater
Working underwater

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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

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
 NT: cDNA
 mtDNA
 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)
 Fisheries literature
 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
 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**

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

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**

Duck-fish culture

USE: **Agropisciculture**

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

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)
 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**

Ecdysones

USE: **Ecdysons**

Ecdysons

SN: Before 1982 search
 HORMONES
 UF: Ecdysones
 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

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

Ecolabelling

SN: Ecolabelling is generally a voluntary system aimed at encouraging sustainable use of resources by giving consumers a clear choice. For fish products, a distinctive logo or statement marks the product as having been harvested in compliance with conservation and sustainability standards
 RT: Certification

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
 Assemblages
 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
 Lake ecology
 NT: Autecology
 Brackishwater ecology
 Ethology
 Freshwater ecology
 Genecology
 Marine ecology
 Palaeoecology
 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
 Globalization
 RT: Commerce
 Economic models
 Livelihoods
 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
 Epizoites
 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
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: Fishery education
Teaching
RT: Curricula
Education establishments
Extension activities
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

Egg production
USE: **Fecundity**

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**

EIA
USE: **Environmental assessment**

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**

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: Electroreceptors
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

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**

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

Electro-fishing

USE: **Electric fishing**

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

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**

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 disruptors

SN: A synthetic chemical that when absorbed into an organism either mimics or blocks hormones and disrupts the normal functions of the organism. Known human endocrine disruptors include but are not limited to: dioxin, PCBs, DDT, and some other pesticides.

BT: Chemical pollutants

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
 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

Entanglement
 NT: Bird entanglement
 Fish entanglement
 Mammal entanglement
 Turtle entanglement

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 degradation

USE: **Environmental degradation**

Environment management

SN: Management of the aquatic environment
UF: Environmental planning
BT: Management
RT: Aquatic environment
Ecosystem management
Environmental legislation
Environmental monitoring
Environmental surveys
Nature conservation
Resource conservation
Resource management
Waste treatment

Environmental assessment

UF: EIA
Environmental Impact 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 degradation

SN: Degradation of the aquatic environment as a result of natural events or caused by man's activities.
UF: Environment degradation
Habitat degradation
BT: Degradation
RT: Aquatic environment
Environmental impact
Man-induced effects
Pollution effects

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
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 degradation
Environmental legislation
Globalization
Hazard assessment
Man-induced effects
Pollution effects

Environmental Impact Assessment
USE: **Environmental assessment**

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 planning
USE: **Environment management**

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 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: Bathogenesis
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
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**

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

Erythrophones

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

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
Eutrophication
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
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
Bioreselection
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

Excess Capacity

SN: Capability to harvest more than is actually being harvested using same stock of inputs (capital).
BT: Fishing capacity

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
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

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**

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

Extension activities

SN: Organized communication efforts to spread information and/or bring about changes in the knowledge, attitudes, skills and/or behaviour of a client population
 UF: Outreach
 Public outreach
 RT: Education
 Technology transfer
 Training

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
 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

FADs

USE: **Fish aggregating devices**

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

Family statistics
USE: **Household statistics**

Fans

NT: Alluvial fans
Deep-sea fans

FAO Code of Conduct for Responsible Fisheries

SN: The Code, elaborated by the FAO Committee on Fisheries and adopted by the FAO Conference in 1995, Code provides principles and standards applicable to the conservation, management and development of all fisheries including the capture, processing and trade of fish and fishery products, fishing operations, aquaculture, fisheries research and the integration of fisheries into coastal area management.

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: Egg production
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

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**

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

Fillets (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: Fishery credit
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**

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: Fish species
Fishes
Ichthyofauna
BT: Aquatic animals
NT: Air breathing fish
Bait fish
Brackishwater fish
Demersal fish
Food fish
Forage fish
Freshwater fish
Game fish
Herbivorous fish
Marine fish
Ornamental fish
Pelagic 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 aggregating devices
SN: Artificial or natural floating objects placed on the ocean surface, to attract schooling fish species, thus increasing their catchability
UF: FADs
RT: Attracting techniques

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
Grouper culture
Milkfish culture
Pisciculture
Sea bass culture
Tilapia culture
BT: Cultures
NT: Bait culture
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
Tilapia 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 entanglement

BT: Entanglement

Fish farms
USE: **Fish culture**

Fish fillets

UF: Block fillets
Filletts (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 freshness
USE: **Quality control**

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
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

ASFA THESAURUS

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 prices
USE: **Pricing**

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 sausage
USE: **Processed fishery products**

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 species
USE: **Fish**

Fish spoilage

UF: Spoilage (fish)
RT: Quality control
Shrimp spoilage

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
Subsistence 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**

Fisheries literature
USE: **Documents**

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
Livelihoods

Fishermen statistics

BT: Fishery statistics
RT: Fishermen

Fishery aid

BT: Aid

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 credit

USE: **Financing**

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 education

USE: **Education**

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
 Tilapia 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
 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
 Sashimi
 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
 Moratoria
 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
 Indigenous fishing
 Intermediate fishing
 Line fishing
 Sport fishing
 Trap fishing
 RT: Catching methods
 Fish detection

Fisheries
 Fishing gear
 Fishing grounds
 Fishing technology
 Fishing vessels
 Livelihoods

Fishing bait

USE: **Bait**

Fishing barriers

SN: Before 1982 search BARRIERS
 UF: Barrier nets
 Barriers (fishing)
 BT: Barriers
 RT: Coastal fisheries
 Lagoon fisheries

Fishing boats

USE: **Fishing vessels**

Fishing buoys

BT: Buoys
 RT: Fishing gear
 Radio buoys

Fishing by diving

BT: Catching methods
 RT: Diving
 Pearl fisheries
 Sponge fisheries

Fishing capacity

SN: Ability of a stock of inputs (capital) to produce output (measured as either effort or catch)
 NT: Excess Capacity
 Overcapacity
 RT: Common property resources
 Overexploitation
 Overfishing

Fishing craft

USE: **Fishing vessels**

Fishing effort

UF: Fishing effort statistics
 Fishing intensity
 RT: Catch statistics
 Catch/effort
 Fishery data
 Fishing power
 Fishing time
 Fishing effort statistics
 USE: **Fishing effort**

Fishing equipment

USE: **Fishing gear**

Fishing fleet

USE: **Fishing vessels**

Fishing gear

SN: Technical description of gear used mainly for commercial fishing purposes
 UF: Fishing equipment
 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 intensity

USE: **Fishing effort**

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 boats
 Fishing craft
 Fishing fleet
 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

Fishing villages

Fishing zone
 USE: **Exclusive economic zone**

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
 Pontoons
 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**

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
 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

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 aid

SN: International transactions that result in the provision of aid in the form of a food commodity in a country deemed in need of receiving such aid.
 BT: Aid

Food availability

BT: Availability
 RT: Biotic factors
 Biotic pressure
 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 security

SN: Freedom from hunger. The capability to produce an adequate amount of food for all consumers at affordable prices.
 UF: Freedom from hunger

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
Forage species

Forage species

SN: Species used as prey by a predator for its food
RT: Forage fish

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)

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

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

Frame surveys

SN: A complete description of the structure of any system to be sampled for collection of statistics. In fisheries, it may include the inventory of ports, landing places, number and type of fishing units (boats and gears), and a description of fishing and landing activity patterns, fish distribution routes, processing and marketing patterns, supply centres for goods and services, etc.

BT: Surveys

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

Freedom from hunger

USE: **Food security**

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

Freshwater ecology

UF: Biological limnology

Limnology (biological)

Stream ecology

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 parks

SN: Freshwater areas protected against human impact.

BT: Protected areas

RT: Marine parks

Protected resources

Recreational waters

Refuges

Sanctuaries

Freshwater plants

SN: Any microscopic or macroscopic vegetal organism living in the freshwater environment

BT: Aquatic plants

NT: Freshwater weeds

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 turtles

USE: **Aquatic reptiles**

Freshwater weeds

UF: Pond weeds

BT: Freshwater organisms

Freshwater plants

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
 Saline 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

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**

Furane

USE: **Furans**

Furans

UF: Furane

Furfuran

Polychlorinated dibenzofurans

BT: Chlorinated hydrocarbons

Furfuran

USE: **Furans**

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**

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**

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

Gas-oil interface

USE: **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

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
Trawl selectivity
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 banks

SN: Any collection of genetic material kept to ensure the future availability of that material for conservation, study or protection purposes.

Gene expression

RT: Genes

Gene mutations

USE: **Mutations**

Gene pool

SN: The sum total of all the genes of all the individuals in a population
RT: Alleles
Genomes
Species diversity

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

UF: Genetic variation
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

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Genetic markers

SN: A gene or DNA sequence having a known location on a chromosome and associated with a particular gene or trait - can be used in family or population studies.

Genetic polymorphism

USE: **Biopolymorphism**

Genetic selection

USE: **Genetic drift**

Genetic variation

USE: **Genetic diversity**

Genetically Modified Organisms

SN: An organism in which the genetic material has been altered anthropogenically by means of gene or cell technologies

UF: GMOs

Transgenic organisms

RT: Biotechnology

Genetics

Genetics

UF: Heredity

BT: Biology

NT: Cytogenetics

Population genetics

RT: Biological speciation

Breeding

Clones

Evolution

Genecology

Genes

Genetic abnormalities

Genetically Modified Organisms

Genomes

Genotypes

Hybridization

Hybrids

Morphogenesis

Mutagens

Mutations

Nucleic acids

Polyploids

Racial studies

Selective breeding

Sibling species

Genom

USE: **Genomes**

Genomes

UF: Genetic factors

Genom

RT: Chromosomes

Gene pool

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
 Palaeogeography
 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**

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**

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

Geostrophic transport

UF: Geostrophic volume transport
RT: Geostrophic flow

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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

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
RT: Spatial analysis

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

Glaucinite

BT: Micas

Glitter

RT: Light reflection
 Reflectance

Global Positioning Systems

SN: A low cost system for finding
 three dimensional coordinates on
 the earth using satellites.
 UF: GPS
 BT: Positioning systems

Global radiation

USE: **Solar radiation**

Global tectonics

USE: **Plate tectonics**

Global warming

SN: An increase in the near surface
 temperature of the Earth. This may
 be a result of natural influences or
 increased emissions of greenhouse
 gases due to human activities.
 BT: Climatic changes
 RT: Greenhouse effect

Globalisation

USE: **Globalization**

Globalization

SN: An umbrella term (having both
 positive and negative connotations)
 as regards the growing economic
 interdependence of countries
 worldwide through increasing
 volume and variety of cross-border
 transactions in goods and services,
 free international capital flows, and
 more rapid and widespread diffusion
 of technology.
 UF: Globalisation
 BT: Economics
 RT: Environmental impact
 Marketing
 Pricing
 Socioeconomic aspects
 Trade

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

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

GMOs

USE: **Genetically Modified**

Organisms**Goethite**

BT: Oxide minerals

Gold

BT: Heavy metals
Transition elements
RT: Gold compounds
Placers

Gold compounds

BT: Chemical compounds
RT: Gold

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

GPS

USE: **Global Positioning Systems**

Graben

SN: Structural rock feature down -
thrown 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
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

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

Greenhouse effect

RT: Carbon dioxide
Climatic changes
Earth atmosphere
Global warming
Heat budget
Terrestrial radiation
Water vapour

Green's function

RT: Mathematical analysis

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 fish

USE: **Demersal fish**

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

Groundfish

USE: **Demersal fish**

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 culture

USE: **Fish culture**

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

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 degradation

USE: **Environmental degradation**

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 loss

SN: Destruction of the environment in which an organism lives resulting in the destruction or displacement of the organism.

Habitat selection

RT: Colonization

Environmental factors

Habitat

Habitat types

USE: **Ecotypes**

Habitats (artificial)

USE: **Underwater habitats**

HACCP

SN: The Hazard Analysis and Critical Control Point (HACCP) system, adopted by the Codex Alimentarius Commission, identifies specific hazards and measures for their control to ensure the safety of food.)
UF: Hazard analysis and critical control point
BT: Quality control

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

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**

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 analysis and critical control point

USE: **HACCP**

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

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

ASFA THESAURUS

- 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
- 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**

Hemopoiesis
 USE: **Haemopoiesis**

Hemorrhage
 USE: **Haemorrhage**

Heparin
 BT: Mucopolysaccharides

Hepatocytes
 BT: Blood cells

Hepatoma
 USE: **Tumours**

Hepatopancreas
 BT: Digestive glands

Herbicides
 BT: Pesticides
 RT: Algcicides
 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
Implisions
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**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
 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

Household statistics

SN: A basic unit for socio-cultural and economic analysis, a household may consist of persons living together and jointly making provision for food or

other essentials elements of the livelihood.

UF: Family statistics
 Households
 BT: Statistics

Households

USE: **Household statistics**

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 nutrition

USE: **Nutrition**

Human physiology

BT: Physiology
 RT: Diving physiology
 Human diseases
 Medicine

Human resources

UF: Manpower resources

ASFA THESAURUS

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

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
Molecular hybridization
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

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**

Hydrogeology
USE: **Hydrology**

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
 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
 UF: 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
 Serpentinization

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**

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
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 routeing

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**

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 routeing

BT: Ship routeing

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**

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

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

Ichthyocides

UF: Piscicides

Polychloropine

BT: Pesticides

RT: Molluscicides

Ichthyofauna

USE: **Fish**

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

ICZM

USE: **Integrated coastal zone management**

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
Tomography

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

Immunocontraception

SN: Use of the body's natural immune defence mechanisms to control or prevent conception and pregnancy by triggering an anti body response to the species own sex cells (i.e. to render the organism infertile)

Immunofluorescence

RT: Fluorescence

Immunology

RT: Allergic reactions
Antibodies
Diseases
Immunity
Immunization
Immunoprecipitation
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 fishing

SN: Fishing undertaken by peoples native to a land or region
 UF: Aboriginal fishing
 Native fishing
 BT: Fishing

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

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
 Seaweed 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: Decision support systems
 GIS
 RT: Information handling
 Information retrieval
 Information services

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

Insecticide resistance**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

Inshore waters

USE: **Coastal waters**

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**
- Integrated coastal zone management**
SN: The process of combining all aspects of the human, physical and biological aspects of the coastal zone within a single management framework
UF: ICZM
BT: Coastal zone management
- 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
Hybrid culture
Monosex culture
Polyculture
Raceway culture
Selective breeding
Shellfish culture
Silo culture
- Intentional inundation
USE: **Flooding**
- Interactions**
NT: Air-sea interaction
Tide-surge interaction
Wave interactions
- Inter-arc basins
USE: **Marginal basins**
- 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

ASFA THESAURUS

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**

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

Internet

SN: Interconnected system of networks that connects

computers around the world via the TCP/IP protocol.

UF: World Wide Web

WWW

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

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 channels

SN: Pore-forming proteins (present in the membranes of all biological cells) that help establish the small voltage gradient that exists across the membrane of all living cells by allowing the flow of ions down their electrochemical gradient.

BT: Cell membranes

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 pumps

USE: **Ion transport**

Ion selective electrode analysis

BT: Analytical techniques

Ion transport

UF: Ion pumps
 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**

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**
- 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

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**

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
 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 ecology
 USE: **Ecology**

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

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

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 frequency

SN: An arrangement of recorded
lengths (in a total catch, a stock,
or a sample) which indicates the
number of individuals
encountered in each length
interval.
UF: Length-frequency distribution
BT: Population structure

Length-frequency distribution

USE: **Length frequency**

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**

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
 Rangefinding
 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

Liferafts

USE: **Lifeboats**

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

Lift-nets

UF: Scooping gear
 BT: Fishing nets

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: Absorbance
 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

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
 Calcarenite
 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
 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

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**

Livelihoods

- SN: The capabilities, assets (including both material and social resources) and activities required for a means of living).
- RT: Economics
 - Fishermen
 - Fishing

Liver

- BT: Digestive glands
- RT: Bile
 - Glycogen

Livestock food

- BT: Food
- NT: Feed

ASFA THESAURUS

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**

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 waves

USE: **Shallow water waves**

Long wave-short wave interactions

USE: **Short wave-long wave interactions**

Long-crested waves

BT: Surface water waves
 RT: Directional spectra
 Short-crested waves
 Wave crests
 Wave direction

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

Long-line culture

USE: **Off-bottom culture**

Longlining

BT: Line fishing
 RT: Demersal fisheries
 Flatfish fisheries
 Pelagic fisheries

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**

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

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

Lophophores
SN: Filter feeding organs
BT: Alimentary organs
RT: Filter feeders

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**

Lower mantle
BT: Earth mantle
RT: Upper mantle

Lower tertiary
USE: **Palaeogene**

Lowest astronomical tides
USE: **Astronomical tides**

Low-velocity layer
BT: Seismic layers
RT: Asthenosphere
Seismic velocities

LPG
USE: **Liquefied petroleum gas**

Lubricants
RT: Fuels

Luciferin
UF: Photopholein
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

Macrobenthos

USE: **Benthos**

Macrophages

SN: A large phagocytic cell
BT: Blood cells
RT: Phagocytosis

Macrophytes

SN: Any macroscopic vegetal
organism living in aquatic
environment
BT: Aquatic plants

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
Magnetostратigraphy
Palaeomagnetism
Pole positions

Magnetic spherules

USE: **Cosmic spherules**

Magnetic stratigraphy

USE: **Magnetostратigraphy**

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

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

Magnetostратigraphy

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**

Mammal entanglement

BT: Entanglement

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**

Management

SN: Use of a more specific term is
recommended
UF: Administration
NT: Ecosystem management
Environment management
Financial management
Production management
Resource management
Risk 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**

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

Man-induced effects

SN: Effects of human activities on
 aquatic ecosystems
 UF: Anthropogenic effects
 Human impact
 RT: Environmental degradation
 Environmental impact
 Pollution effects

Manipulators

RT: Diving suits
 Robots
 Underwater vehicles

Man-made disasters

USE: **Accidents**

Man-made lakes

USE: **Artificial lakes**

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

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)

Seashore ecology

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 bass fisheries

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

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
BT: Protected areas

RT: Freshwater parks
Protected resources
Recreational waters
Refuges
Sanctuaries

Marine physics
USE: **Physical oceanography**

Marine plants
SN: Any microscopic or
macroscopic vegetal organism
living in the marine environment
BT: Aquatic plants
NT: Sea grass
Seaweeds

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 turtles
USE: **Aquatic reptiles**

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**

Market research
UF: Marketing research
RT: Cost analysis
Marketing
Pricing

ASFA THESAURUS

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
 Globalization
 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: Lentic 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**

Materials technology

UF: Materials science
 BT: Technology
 RT: Materials
 Materials testing

Materials testing

BT: Testing
 NT: Nondestructive testing
 RT: Materials
 Materials technology
 Tomography

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
 - Analogs
 - 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**

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

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

UF: Size 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**

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
 Serpentinization
 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
 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
 Glauconite
 Muscovite
 RT: Slates

Microbenthos

USE: **Benthos**

Microbial activity

USE: **Microorganisms**

Microbial contamination

UF: Biological contamination
 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: Microbial activity
 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

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

Midlatitude anticyclones

USE: **Anticyclones**

Midlatitude cyclones

USE: **Cyclones**

Mid-ocean eddies

USE: **Mesoscale eddies**

Midocean ridges

USE: **Mid-ocean ridges**

Mid-ocean ridges

UF: Midocean ridges

Mid-ocean rises

Mid-oceanic 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**

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

Milkfish culture
USE: **Fish culture**

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

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
- Mitosis**
UF: Karyokinesis
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
Cabbeling
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
Spatial analysis
- 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 hybridization
USE: **Hybridization**

Molecular mass
USE: **Molecular weight**

Molecular structure

RT: Molecular weight
Molecules

Molecular taxonomy
USE: **Chemotaxonomy**

Molecular viscosity

BT: Viscosity
RT: Laminar flow
Momentum transfer

Molecular weight

UF: Molecular mass
BT: Weight
RT: Chemical properties
Molecular structure

Molecules

RT: Ligands
Molecular structure

Mollusc culture

UF: Conch culture
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**

Molluscan 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

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
SN: A mandatory cessation of fishing activities on a species, in an area, with a particular gear, and for a specified period of time.
UF: Moratorium
BT: Fishery regulations

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

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**

mtDNA
SN: DNA of the mitochondria; carrier of genetic information useful in examining genetic identity of an individual
BT: DNA

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

Mud volcanoes

SN: Formations created created when mud and sand under the surface are squeezed upward by compressive forces and/or gas - commonly found in areas rich in oil and natural gas.
BT: Volcanoes
RT: Continental shelves
Petroleum geology

Mudflows

USE: **Debris flow**

Muds (drilling)

USE: **Drilling fluids**

Mudstone

BT: Clastics
Sedimentary rocks
RT: Lutites
Siltstone
Slates

Mullet fisheries

BT: Finfish fisheries

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

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

Native fishing
 USE: **Indigenous fishing**

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
 SN: Before 2008 search MARINE PARKS
 USE: **Protected areas**

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**

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**

Nearshore bars

UF: Bars

Offshore bars

Submarine bars

BT: Beach features

NT: Break-point bars

Longshore bars

Transverse bars

RT: Barrier beaches

Bed forms

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

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

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**

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

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

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

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
Tomography

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

Non-Newtonian fluids
BT: Fluids
RT: Rheology

Nonrenewable resources
BT: Natural resources
RT: Fossil fuels
Mineral resources
Renewable resources
Seabed deposits

Non-target species
SN: Species for which the gear is not specifically set, although they may have immediate commercial value.
USE: **By catch**

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

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

UF: Human nutrition

NT: Animal nutrition

Plant nutrition

RT: Feeding

Food

Food absorption

Metabolism

Nutrient deficiency

Nutrients (mineral)

Nutritional requirements

Nutritional types

Nutritive value

Physiology

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**

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**

Oceanaria

USE: **Aquaria**

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

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

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

Ocean-ice-atmosphere system

RT: Air-sea coupling

Ocean-atmosphere system

Sea ice

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
- 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
 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

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**

Oils (fish)

USE: **Fish oils**

Oil-water interface

UF: Water-oil interface
 BT: Interfaces
 RT: Oil in water content
 Oil-gas interface
 Petroleum

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: Palaeogene

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

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

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
Morphogenesis
Phenotypes
Sexual dimorphism
Taxonomy
Tomography

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
- 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

Outreach

USE: **Extension activities**

Ova

USE: **Eggs**

Ovalbumin

USE: **Albumins**

Ovaries

BT: Gonads
RT: Fecundity
Oogenesis
Ovulation
Sterility

Overcapacity

SN: In simple terms too many vessels, or the capability to harvest more than is sustainable in the long-run given a desired or optimal level of resources.
BT: Fishing capacity

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: Fishing capacity
Rare resources

Overfishing

SN: Fishing more intensely than a desirable level
UF: Fishing overexploitation
BT: Commercial fishing
Overexploitation
RT: Depleted stocks
Fishing capacity
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

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
 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

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**

Palaeomid fisheries

USE: **Shrimp fisheries**

Palaeo studies

UF: Paleo studies
 NT: Palaeoceanography
 Palaeoclimatology
 Palaeoecology
 Palaeolimnology
 Palaeontology
 Palaeotopography

Palaeobathymetry

USE: **Palaeotopography**

Palaeoceanography

SN: Before 1986 search also PALAEOOCEANOGRAPHY
 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

Palaeogeography

SN: The study of the ancient geography of the Earth's surface.
 BT: Geography

Palaeolatitide

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
 Palaeolatitide
 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**

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: Antihelminthic 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

SN: Before 2008 search MARINE
 PARKS
 USE: **Protected areas**

Parrs

USE: **Juveniles**

Parthenogenesis

BT: Reproduction
 RT: Clones

Partial tides

USE: **Tidal constituents**

Partially-mixed estuaries

BT: Estuaries

Participation

USE: **Participatory approach**

Participatory approach

SN: A means to assist individuals and communities to analyze their situation, identify their priorities and decide which actions to undertake. As a result, they mobilize their resources and know-how to realize what they want and to achieve their objectives. As opposed to top-down development.

UF: Participation

BT: User participation

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
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 fish

SN: Fish that spend most of their life swimming in the water column with little contact with or dependency on the bottom.
BT: Fish
RT: Pelagic fisheries

Pelagic fisheries

BT: Marine fisheries
RT: Finfish fisheries
Krill fisheries
Longlining
Pelagic fish
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
 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**

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: Mud volcanoes
 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

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

Photic 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

- 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
- Phylogenetics**
SN: The study of evolutionary relationships
RT: Biological speciation
Evolution
Phylogeny
Taxonomy
- Phylogeny**
BT: Biogeny
RT: Biological speciation
Bioreselection
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
 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

Pig-fish culture

USE: **Agropisciculture**

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**

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**

Planktonology

UF: Plankton studies
BT: Ecology
RT: Marine sciences
Plankton
Plankton surveys

Planning

UF: Programming
NT: Community planning
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

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

Pliocene

SN: Before 1982 search
 PLIOCENE EPOCH
 BT: Neogene
 RT: Plio-pleistocene boundary

Plio-pleistocene boundary

RT: Pleistocene
 Pliocene

Plotting

RT: Geographical coordinates
 Mapping

Ploughing trenches

USE: **Trenching**

Ploughmarks

UF: Iceberg scour marks
 BT: Bed forms
 RT: Glacial erosion
 Glacial features
 Iceberg scouring

Ploughs

UF: Plows
 RT: Trenching

Plows

USE: **Ploughs**

Plumblin 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

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: Contamination
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**

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 degradation
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**
- Polychlorinated dibenzodioxins
 USE: **Dioxins**
- Polychlorinated dibenzofurans
 USE: **Furans**
- 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
- 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
- Ployploids**
 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**

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 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
 Length frequency
 Sex ratio
 Size distribution
 Size-at-age
 Size-at-first-maturity
 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**

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
 Global Positioning Systems
 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 ($\sigma\text{-O}$)
 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 analysis
 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

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**

Prawn wastes
 USE: **Wastes**

Precambrian

SN: Before 1982 search
 PRECAMBRIAN ERA
 UF: Archean
 Proterozoic
 BT: Geological time

Precautionary approach
 USE: **Precautionary principle**

Precautionary principle

SN: A set of agreed cost-effective
 measures and actions, including
 future courses of action, which
 ensures prudent foresight, reduces or
 avoids risk to the resource, the
 environment, and the people, to the
 extent possible, taking explicitly into
 account existing uncertainties and
 the potential consequences of being
 wrong.
 UF: Precautionary approach

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

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: Fish prices
Market prices
RT: Commercial legislation
Cost analysis
Costs
Financing
Globalization
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
UF: Fish sausage
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
Shrimp spoilage

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

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: Bathymographs
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**

Proliferation

SN: Growth by the rapid multiplication of parts.

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

Protandry

RT: Hermaphroditism
Self fertilization

Protected areas

SN: An area set aside for the preservation and protection of highly important natural and cultural features and for the regulation of the scientific, educational and recreational use. Before 2008 search MARINE PARKS
UF: Nature reserves
Parks
NT: Freshwater parks
Marine parks

Protected resources

BT: Resources
RT: Freshwater parks
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

Proterozoic
 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

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

Public outreach
 USE: **Extension activities**

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

P-waves

UF: Compressional waves (seismic)

Primary waves

BT: Body waves

RT: Compressional wave velocities

S-waves

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

Quality control

SN: Methods and procedures for testing and monitoring quality at acceptable levels

UF: Fish freshness

BT: Control

NT: HACCP

Water quality control

RT: Acceptance tests

Certification

Commercial legislation

Control charts

Fish spoilage

Inspection

Performance assessment

Production management

Quality

Quality assurance

Shrimp spoilage

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

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**

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
 Tomography
 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
 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

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**

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**

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
 Freshwater parks
 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

UF: Rocky 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**

Re-entry (deep-sea drilling)

USE: **Hole re-entry**

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

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: Freshwater parks

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

Regulation compliance

Regulations

USE: **Legislation**

Reinforced concrete

BT: Concrete
 RT: Steel

ASFA THESAURUS

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**

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

Overturn

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**

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**

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

Responsible fisheries

USE: **Sustainable fishing**

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

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
 Rice-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**

Rice-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**

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 buffers

SN: Areas that are managed to protect the aquatic and riparian ecosystem. A riparian buffer protects water quality and temperature, habitat along the banks, upland habitat for aquatic and riparian species, and some or all of the floodplain.
RT: Riparian environments
Riparian vegetation
Riparian zone

Riparian environments

RT: Coasts
Lake shores
Riparian buffers
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
RT: Riparian buffers

Riparian zone

RT: Coastal zone
Riparian buffers
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

Risk management

SN: The process of evaluating and selecting regulatory and non-regulatory responses to risk, taking into consideration legal, economic, and behavioural factor.
BT: Management
RT: Risks

Risks

SN: Includes risk analysis
RT: Feasibility
Hazards
Insurance
Reliability
Risk management

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**

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**

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 reefs

USE: **Reefs**

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

Rosby number

RT: Coriolis force
Dimensionless numbers
Inertia
Ratios
Rosby parameter

Rosby parameter

BT: Parameters

RT: Baroclinic instability

Beta-plane
Coriolis parameters
Planetary waves
Rossby number

Rosby 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

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

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 fronts

BT: Fronts

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
 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 temperature depth profiles

USE: **STD profiles**

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**

Salinization

SN: The accumulation of soluble salts at the surface or at some point below the surface of the soil profile to levels that have negative effects on plant growth and/or on soils.

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

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

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**

Salt-wedge estuaries
BT: Estuaries
RT: Halocline
River plumes
Saline intrusion
Salinity stratification
Salt wedges
Turbulent entrainment

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**

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: Freshwater parks
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: Saprothagic 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**

Sashimi

SN: Sliced fish and shellfish
served raw
BT: Fishery products

Satellite altimetry

UF: Satellite-borne radar altimetry
BT: Altimetry
RT: Geoid
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**

Satellites

UF: Artificial satellites
Satellites (artificial)
NT: Communication satellites
Navigational satellites
Scientific satellites
RT: Astronomy
Electronic equipment
Satellite sensing

Satellites (artificial)

USE: **Satellites**

Satellite-tracked buoys

USE: **Drifting data buoys**

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: **Escarments**

Scars
USE: **Lesions**

Scatter diagrams
BT: Statistical tables
RT: Regression analysis

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
Veterinarians
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 bass culture

USE: **Fish culture**

Sea bass fisheries

USE: **Marine fisheries**

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**

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: Marine plants
 Seaweeds
 NT: Artificial sea grass

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**

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

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**

Seashore ecology
USE: **Marine ecology**

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
Seaweed industry
Seaweeds

Seaweed farming
USE: **Seaweed culture**

Seaweed harvesting
BT: Harvesting
RT: Seaweed industry
Seaweed processing
Seaweed products
Seaweed statistics
Seaweeds

Seaweed industry
SN: Including any industries of seaweed products obtained by handling or processing methods.
BT: Industries
NT: Seaweed processing
Seaweed products
RT: Seaweed culture
Seaweed harvesting

Seaweed meal
USE: **Alginates**

Seaweed processing
SN: Processing of marine plants and marine plant products
BT: Processing fishery products
Seaweed industry
RT: Seaweed harvesting
Seaweed products
Seaweeds

Seaweed products
BT: Processed fishery products
Seaweed industry
NT: Agar
Alginates
Carrageenins
RT: Seaweed harvesting
Seaweed processing
Seaweeds

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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
Marine plants
Weeds
NT: Kelps
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

Sediment mixing

UF: Mixing (sediments)
 NT: Bioturbation
 Gas turbation
 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
 Sediments
 Sediment-water interface
 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
 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

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
 - 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
 - Sedimentary environments
 - Sedimentary rocks
 - Sedimentary structures
 - Sedimentation
 - Sedimentology
 - Sediment-water interface
 - Soils
 - Stratigraphic correlation
 - Tidal deposits

Sediments (consolidates)

USE: **Sedimentary rocks**

Sediments in suspension

USE: **Resuspended sediments**

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
 Sediments
 Sediment-water exchanges
 Wave-seabed interaction

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**

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 tomography

BT: Stratigraphy

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
 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

SeleniumBT: 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**Semidiurnal tides**UF: Lunar semidiurnal tides
Solar semidiurnal tides
BT: Tides**Semi-enclosed seas**BT: Marginal seas
RT: Embankments
Shelf seas

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**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**

Sequence stratigraphy

BT: Stratigraphy

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

RT: Serpentinization

Serpentinization

USE: **Serpentinization**

Serpentinization

SN: Geological metamorphic process involving heat and water in which low-silica mafic and ultramafic rocks are oxidized and hydrolyzed with water into serpentinite

UF: Serpentinization

RT: Hydrothermal alteration

Metasomatism

Serpentinite

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

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**

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
 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**
- Shellfish fisheries**
BT: Fisheries
NT: Crustacean fisheries
- Echinoderm fisheries
Mollusc fisheries
RT: Marine fisheries
Shellfish catch statistics
Shellfish culture
- Shellfish nutrition
USE: **Animal nutrition**
- 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 routing**
 UF: Weather routing
 NT: Ice routing
 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
- 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

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
Panaeid shrimp fisheries
Prawn fisheries
BT: Crustacean fisheries
RT: Lagoon fisheries
Shrimp spoilage

Shrimp nutrition
USE: **Animal nutrition**

Shrimp spoilage
RT: Fish spoilage
Processing fishery products
Quality control
Shrimp 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

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**

Size selectivity

USE: **Mesh selectivity**

Size-at-age

SN: Length or weight of the fish
 when it attains maturity
 BT: Population structure

Size-at-first-maturity

SN: Length or weight of the fish
 when it attains maturity
 BT: Population structure

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
 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: Globalization
 Sociological aspects

Sociological aspects

UF: Social aspects
 Sociology
 RT: Demography
 Socioeconomic aspects

Sociology

USE: **Sociological aspects**

Sodar

UF: Acoustic surveys (atmosphere)
 Sonic Detection And Ranging
 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 Ranging
 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
 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
 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 Rangefinding

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

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 Rangefinding

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

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 analysis

SN: Analytical techniques to determine the spatial distribution of a variable, the relationship between the spatial distribution of variables, and the association of the variables of an area. . It refers to the analysis of phenomena distributed in space and having physical dimensions (the location of, proximity to, or orientation of objects with respect to one another; relating to an area of a map as in spatial information and spatial analysis; referenced or relating to a specific location on the Earth's surface.

BT: Analytical techniques
RT: GIS
Modelling

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

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
Gene pool

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 SPERMATOZOA
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**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: **Loxster 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
Sporogomy
Sporulation
RT: Sporangia
Spores
Sporophytes
- Sporogomy
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: Community fishing
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**
- 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

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
Virtual population 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
Household 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
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

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
Virtual population analysis

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

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
Straddling 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

Straddling stocks

SN: Stock which occurs both
 within the EEZ and in an area
 beyond and adjacent to EEZ
 BT: Stocks

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
 Magnetostratigraphy
 Oxygen isotope stratigraphy
 Seismic stratigraphy
 Seismic tomography
 Sequence 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 conservation

USE: **Conservation**

Stream ecology

USE: **Freshwater ecology**

Stream fisheries

USE: **River fisheries**

Stream flow

UF: River currents
 River flow
 BT: Water currents
 RT: Backwash
 Backwaters
 Flood control
 Fluid motion
 Hydrodynamics
 River discharge

ASFA THESAURUS

- 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
BT: Mechanical properties
NT: Bearing capacity
Collapse strength
Compressive strength
Shear strength
Tensile strength
RT: Yield point
- Stress
USE: **Stress (mechanics)**
- Stress (biological)
USE: **Biological stress**
- 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
- Subaerial topography**
BT: Topography (geology)
- Subaqueous sediment transport
USE: **Sediment transport**

Sub-bottom profiling

- SN: Profiling using systems employing discrete sound sources, e.g. echosounders
- BT: Profiling
 - Seismic exploration
- RT: Echosounding
 - Seismic reflection profiling

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

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

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**

Subsistence fisheries

SN: A fishery where the fish caught are shared and consumed directly by the families
 BT: Fisheries

Substrata

UF: Substrates (physical)
 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 (biochemistry)

SN: The material or substance on which an enzyme acts.

Substrates (physical)

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

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**

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
 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
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
- Surfacing behaviour**
BT: Behaviour
- 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**

Surges

UF: Surge waves
NT: Storm surges
RT: Seiches
Tides
Wave period
Wind waves

Surges (beach)

USE: **Wave runup**

Surges (seiches)

USE: **Seiches**

Surges (storm)

USE: **Storm surges**

Surge-tide interaction

USE: **Tide-surge interaction**

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
Frame 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

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

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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**

Sustainability

SN: Ability to persist in the long-term.
Often used as a "short hand" for sustainable development.
NT: Sustainable development
Sustainable fishing

Sustainable development

SN: Management and conservation of the natural resource base, and the orientation of technological and institutional change in such a manner as to ensure the attainment of continued satisfaction of human needs for present and future generations.
UF: Sustainable management
BT: Sustainability

Sustainable fishing

SN: Fishing activities that do not cause or lead to undesirable changes in the biological and economic productivity, biological diversity, or ecosystem structure and functioning from one human generation to the next.
UF: Responsible fisheries
BT: Sustainability

Sustainable management
USE: **Sustainable development**

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

S-waves

UF: Secondary waves
Shear waves
BT: Body waves
RT: P-waves
Shear wave velocities

Swaying

BT: Ship motion

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 fibres
 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

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**

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

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- 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
Extension activities
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
- 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

Temperature inversion layers

USE: **Temperature inversions**

Temperature inversions

UF: Dicotermal 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**

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**

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

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
 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
 Homiothermy
 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

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

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

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
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**

Tide-surge interaction
UF: Surge-tide interaction
BT: Interactions
Wave-wave interaction
RT: Shallow water tides
Storm surge barriers
Storm surges

Tie-in
USE: **Connecting**

Tilapia culture
USE: **Fish culture**

Tilapia diseases
USE: **Fish diseases**

Tilapia industry
USE: **Fishery industry**

Tilapia nutrition
USE: **Animal nutrition**

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

Tombolos
BT: Beach features

Tomography
SN: A radiological technique that
shows a single plane (slice) of the
object under examination, typically a
part of an organism. Also used in
non-destructive materials testing.
UF: CAT scan
Computed tomography
Computerized axial tomography
CT scan
BT: Radiography
RT: Acoustic tomography
Anatomy
Imaging techniques
Materials testing
Nondestructive testing
Organism morphology

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
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
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
 Globalization
 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
 Extension activities
 Training aids
 Training centres

Training aids

UF: Teaching aids
 RT: Audiovisual materials
 Manuals
 Simulators
 Training

Training centers

USE: **Training centres**

Training centres

UF: Training centers
 RT: Education establishments
 Training

Training programmes

USE: **Curricula**

Trammels

USE: **Entangling nets**

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

Transgenic organisms

USE: **Genetically Modified**

Organisms

Transgressions

- UF: Marine transgressions
- RT: Coasts
 - Deglaciation
 - Eustatic changes
 - Regressions
 - Retrogradation
 - Sea level changes
 - Submerged shorelines
 - Submergence

Transient polymorphism

USE: **Biopolymorphism**

Trans-isopycnal mixing

- BT: Water mixing
- RT: Double diffusive instability
 - Internal wave breaking
 - Kelvin-Helmholtz instability
 - Mixing processes

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**

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 selectivity

USE: **Gear selectivity**

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

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

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
 Tubiculous organisms
 BT: Aquatic organisms
 RT: Benthos

Tube dwelling organisms

USE: **Tube dwellers**

Tuberculosis

UF: Mycobacterial infections
 BT: Bacterial diseases
 RT: Fish diseases

Tubiculous 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
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: **Overtum**

Turtle culture
BT: Reptile culture
RT: Turtle fisheries

Turtle entanglement
BT: Entanglement

Turtle excluder devices
BT: By-catch excluder devices

Turtle fisheries
BT: Fisheries
RT: Turtle culture

Twine
USE: **Yarns**

Two phase flow
USE: **Multiphase flow**

ASFA THESAURUS

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

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**

Undercurrents

BT: Water currents

NT: Equatorial undercurrents

Western boundary undercurrents

RT: Coastal countercurrents

Ocean currents

Underdeveloped countries

USE: **Developing countries**

Underfishing

SN: Characteristic of a stock which may sustain catches higher than current ones

BT: Commercial fishing

Underground water

USE: **Ground water**

Under-ice environment

USE: **Epontic environment**

Under-ice organisms

USE: **Epontic organisms**

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

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

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

Uptake

UF: Upstream migrations

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**

User participation

SN: Where resource users play an active role in the process of management,

NT: Participatory approach

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

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
 BT: Free-swimming vehicles
 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
 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**

Vessels
 USE: **Surface craft**

Veterinarians
 BT: Scientific personnel

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

Virtual population analysis
 SN: Computation of historical fishing mortality rates and stock sizes by age, based on data on catches, natural mortality, and certain assumptions about mortality for the last year and last age group.
 UF: Cohort analysis
 VPA
 BT: Statistical analysis
 RT: Stock assessment

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

Vitamin D

SN: Before 1982 search
 VITAMINS
 UF: Calciferol
 Cholecalciferol
 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
 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**

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: Mud volcanoes
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

VPA
USE: **Virtual population analysis**

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
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

UF: Prawn 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**

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
 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
 Bathithermographic data
 Bathithermographs
 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
 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
 Overturn
 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
 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 runup
USE: **Wave runup**
- 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
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
 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
 Whitecapping
 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
- 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 routing
- 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

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

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

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

Waveform analysis

BT: Wave analysis
 RT: Fourier analysis
 Harmonic analysis
 Spectral analysis

Wave-ice interaction

USE: Wave interactions

Wave-induced loading

BT: Loads (forces)
 RT: Cyclic loading
 Pore pressure
 Wave-seabed interaction

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

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

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
 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 routing**

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**

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

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
 Winds
 Wind-wave interaction

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**

Windrows
 BT: Slicks
 RT: Cellular convection
 Langmuir circulation
 Surface films
 Surface properties
 Wind direction

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

Wind-wave interaction
 BT: Wave interactions
 RT: Air flow over water
 Wind stress
 Wind wave generation
 Wind waves

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

World Wide Web
USE: **Internet**

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**

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

WWW
USE: **Internet**

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

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
- 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
- Zeolites**
 BT: Silicate minerals
 NT: Analcite
 Clinoptilonite
 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
Sapropylankton
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

10. ASFA THESAURUS TERMINOLOGY CONTROL FORM

(fill out form and return it to the FAO ASFA Secretariat: attention: Richard.Pepe@fao.org and Helen.Wibley@fao.org)

TERM:

The above term should be:

- (check one) - ADDED
 - DELETED
 - CHANGED

Because:

(check one or more)

- 1) It does not appear in the Thesaurus
- 2) It is synonymous to another thesaurus term
- 3) It appears in the Thesaurus with an incorrect "relationship"
- 4) It appears in the Thesaurus with an incorrect "scope note"
- 5) The spelling is incorrect.....

Other reasons and/or comments:

SUGGESTED ENTRY

Term:

Scope note:

Use:

Use for:

Broader Term(s)

Narrower Terms(s)

Related Terms(s)

Suggestion from: (name and address and date)

(do not write below this line)

.....
ASFA Thesaurus Committee

Term or amendment: - Accepted
 - Changed
 - Rejected

Reasons: