



COORDINATING WORKING PARTY ON FISHERY STATISTICS

Intersessional Fishery Subject Group Meeting

Swakopmund, Namibia 25-27 February 2015

Introduction to the new CWP Handbook user interface

Author: FAO

Introduction to the new CWP Handbook user interface

Overview

- The Handbook of Fishery Statistical Standards covers terminology, classifications, methodologies and data exchange protocols as applied to fishery statistics by the international agencies of the Coordinating Working Party on Fishery Statistics (CWP).
- Time has come to propose a new way of offering contents to the user in order to facilitate how information is searched, found and used.
- Also the content is under revision

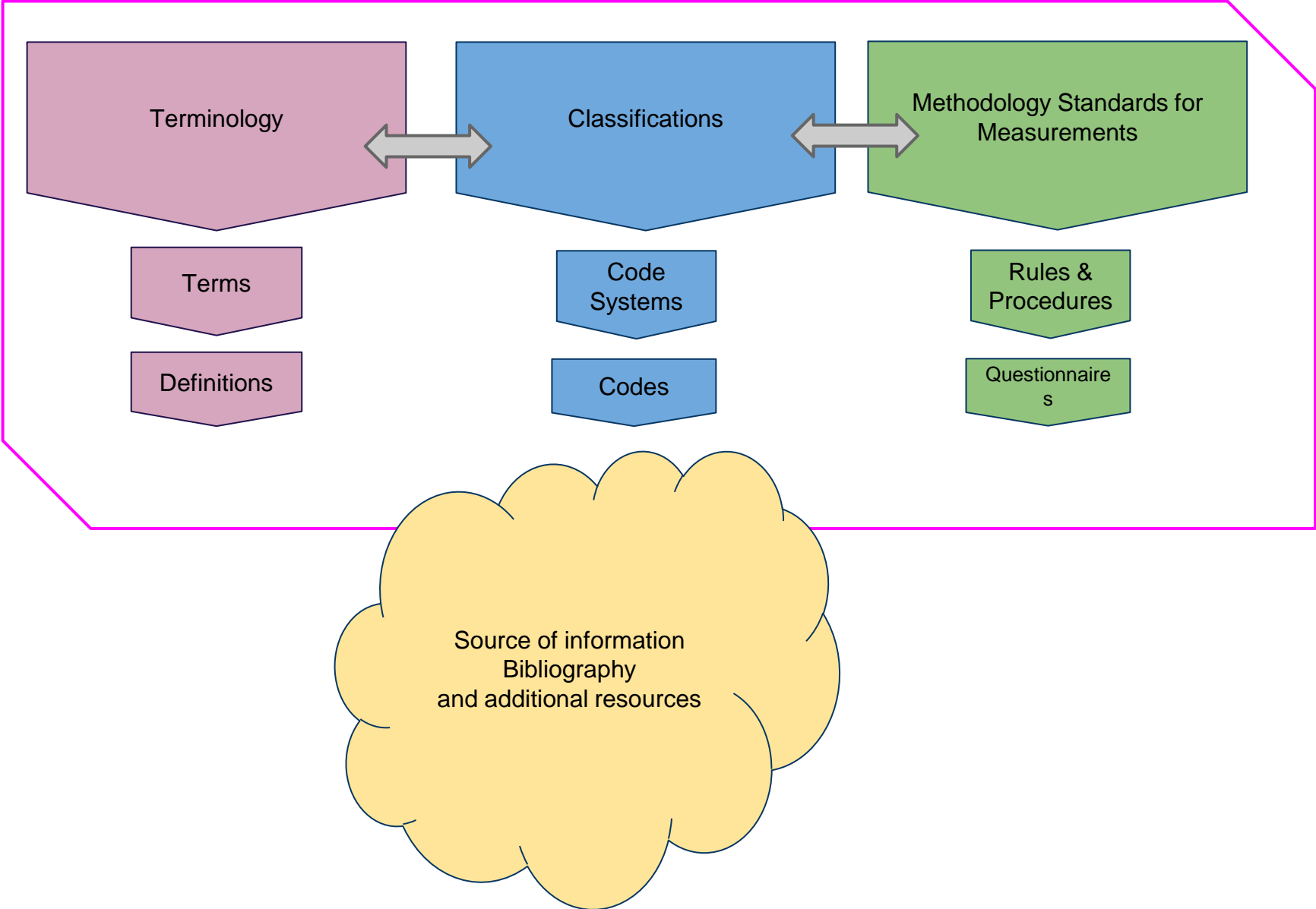
Overview (2)

Status of content update

A. ABOUT THE CWP HANDBOOK	Content in Draft prepared by H. Lassen in December 2012
B. CATCH AND LANDINGS	Content in Draft prepared by H. Lassen in December 2012
C. NATIONALITY	UNCHANGED
D. COUNTRY OR AREAS	Edited by FAO, changes implemented
E. TIME UNITS	Edited by FAO, changes implemented
F. CURRENCIES AND FUNDS	Content in Draft prepared by H. Lassen in December 2012
G. FISHING AREAS - GENERAL	Edited by FAO, changes implemented
H. FISHING AREAS FOR STATISTICAL PURPOSES	Edited by FAO, changes implemented
I. CONVERSION FACTORS FROM LANDED TO NOMINAL WEIGHT	To be MERGED in Section B as per Hans Lassen I
(REUSED) SUSTAINABLE DEVELOPMENT INDICATORS	Content in Draft by H. Lassen on Sept. 2012
J. AQUACULTURE	Updated contents available in the Report of the twenty-fourth session of the CWP on Fishery Statistics
K. FISHERS	Content in Draft prepared by H. Lassen in December 2012
L. FISHERY FLEET	Content in Draft prepared by H. Lassen in December 2012
M. FISHING GEAR CLASSIFICATION	To combine from Draft prepared by H. Lassen in December 2012 and Chapter XV: Fishing Fleet
N. FISHING EFFORT	Content in Draft prepared by H. Lassen in December 2012
O. LOGBOOKS	Content in Draft prepared by H. Lassen in December 2012 P.
SUPPLY BALANCE SHEETS ON APPARENT CONSUMPTION	UNCHANGED
Q. METHODOLOGY	To be MERGED in Section A as per Hans Lassen
R. FISHERY COMMODITIES CLASSIFICATION	UNCHANGED-
S. IDENTIFIERS FOR AQUATIC ANIMALS AND PLANTS	Edited by FAO, Changes implemented
T. STATLANT, STATPAC, FISHSTAT SYSTEM OF QUESTIONNAIRES	Edited by FAO, Changes implemented
U. LIST OF FAO YEARBOOKS OF FISHERY STATISTICS	Changes implemented
V. ACRONYMS	Edited by FAO, Changes implemented
X (NEW). SOCIO ECONOMIC	Short introduction in Draft prepared by H. Lassen in December 2012 + Eurostat Draft
Y (NEW). FISH STOCK MONITORING	Short introduction in Draft prepared by H. Lassen in December 2012
Z (NEW). FISHERIES STATISTICS FOR AN ECOSYSTEM APPROACH	Short introduction in Draft prepared by H. Lassen in December 2012

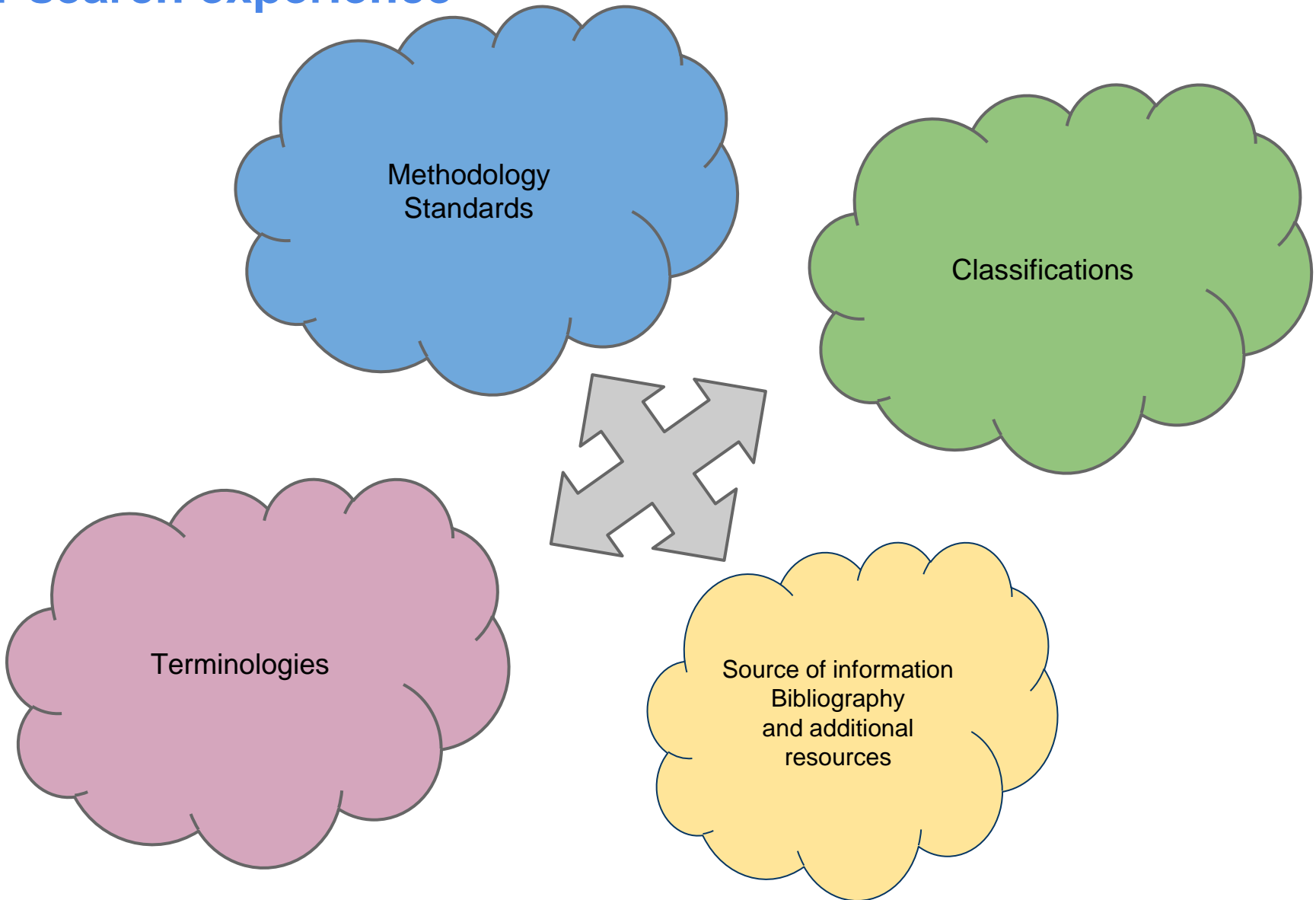
Modifications details are documented at http://figisapps.fao.org/FIGISwiki/index.php/CWP#Revision_of_CWP_Handbook (login required)

Building blocks for the new dynamic interface



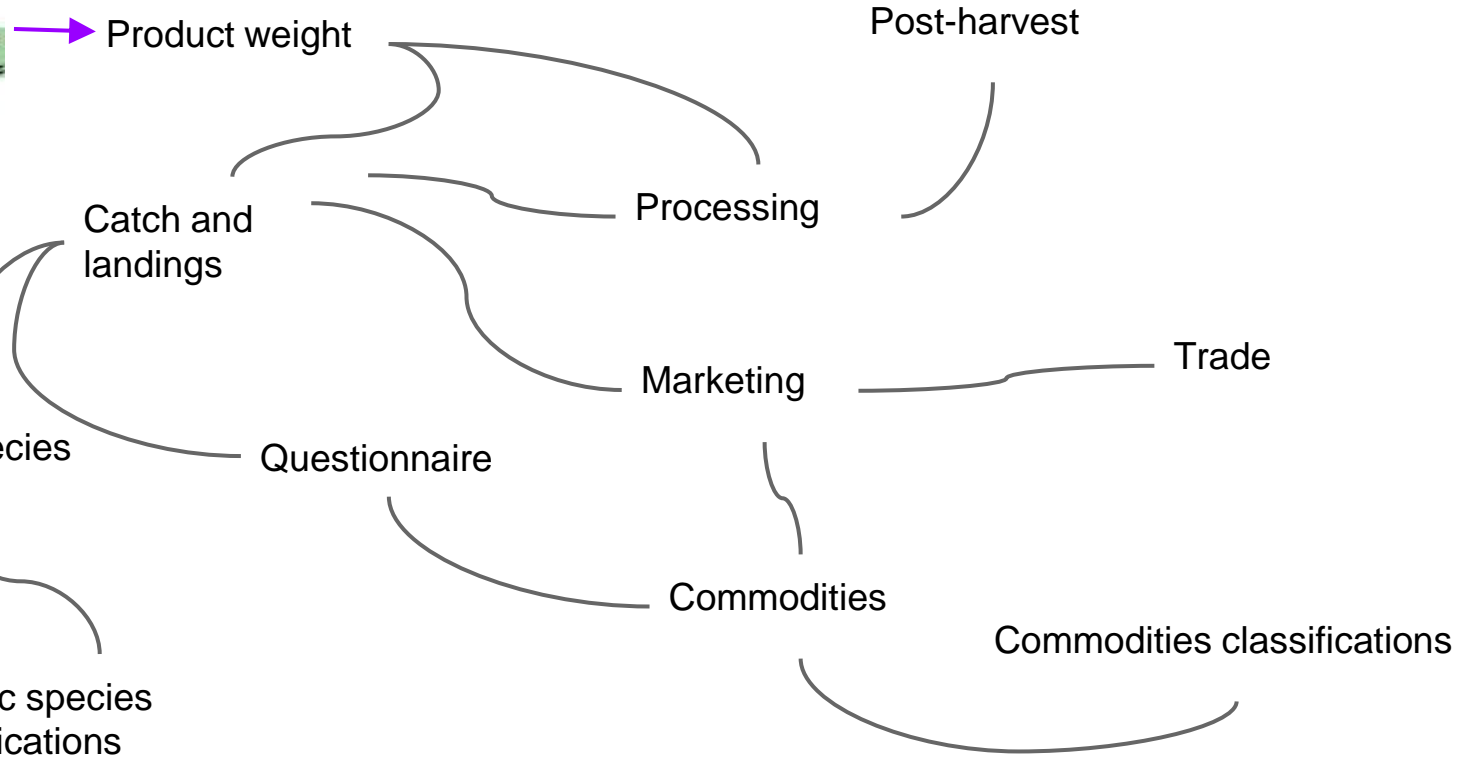
The new interface will harvest data & information across the building blocks

User search experience



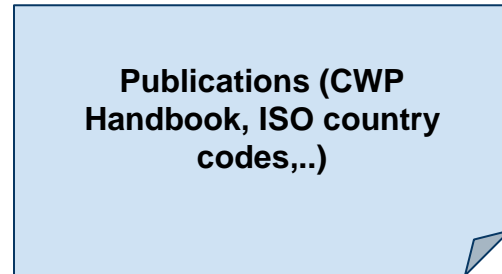
Users' keywords are dynamically interlinked with other relevant elements
A cohesive access to information

Behind the scenes: an example



Items in building blocks are reciprocally mapped through logical connectors (e.g. tags)

Integrated Sources of Information



The new interface is expected to harvest information from sources beyond the CWP handbook, including relevant classifications and concepts external to CWP secretariat responsibility

FAO - FI ongoing developments

The envisaged scenarios are well supported by the following IT developments within the FAO Fisheries and Aquaculture Department:

RTMS++ *(first release expected on April 2015)*

The evolution of the [Reference Tables Management System](#) for mastering **Reference Data** including standard terms, concepts and classifications, many of which authored by CWP and FIRMS.

The new application is offering:

- Reference data exposed through web services (RESTful API)
- Data structure
- Data versioning
- Data editing and visualization

GRADE *(released version 1.0)*

A management tool for **Linked Data** assets that map, align, and enhance data that originates in multiple and autonomous data sources. The tool is offering:

- data integration across repositories (both local and external)
- classification mapping
- systems' integration based on cutting-edge technologies of web semantics (google like searches, annotation facilities etc...)
- data acquisition from heterogeneous sources without specific protocols or agreements

Data remain in the source information systems while the new CWP interface gives a unique entry point

The two systems complement each other in handling core and reference data owned and managed by different communities

AGENDA 4:
PROGRESS FOR THE REVISION
OF CWP HANDBOOK

Review: Agreement at CWP-24/ Proposal by Lassen

- ◆ Contents to be covered:
 - Standard concepts adopted by CWP
 - Standard concepts internationally adopted (e.g. UN Statistical Committee)
 - Methodological issues
 - minimum as well as desirable data needs
- ◆ Four main categories:
 - General methodological issues (e.g. confidentiality)
 - General and commonly used concepts (e.g. nationality, species, etc)
 - Capture fisheries component
 - Aquaculture component
- ◆ Web-dissemination with two clearly separated components:
 - Core - well established standards and solid guideline
 - Archival - background materials including references, supporting materials, case studies, success stories and examples of failure, argument of emerging issues and so on
- ◆ Enhanced search engines and links:

Mechanisms for HB revision: Agreement at CWP-24

- CWP Secretary: to convert the agreed draft into the format suitable for dissemination at web and upload to the CWP wiki page;
- Members: final review and clearance;
- CWP Secretary: to transform the cleared section to the proper format for dissemination and disseminate;
- Conversion and upload of files will be done section by section, targeting to complete the revision before the end of 2013;
- On completion of dissemination of whole sections, the Secretariat would formally announce the revision of CWP Handbook.

Contents – Proposed by H.Lassen

1. General Introduction (New):

1. Confidentiality (New)
2. Acronym [V]

2. Basic Information:

1. Nationality of catch and landings [C, new diagram]
2. Country or areas [D]
3. Time Units [E]
4. Currencies and Funds [F]
5. Conversion Factors [I]
6. ASFIS [S]
7. FAO Major Area [G]
8. Fishing Areas [H]
9. Fishery Commodities Classification [R]

3. Capture Fisheries:

1. Methodologies [Q]
2. Integrated Environmental and Economic

Account (New)

3. Data required for stock monitoring and assessment (New)
4. Fisheries statistics for an Ecosystem Approach (New)
5. Catch and landings [B]
6. Logbooks [O]
7. Fishing effort [N]
8. Fishery fleet [L]
9. Fishing Gear Classification [M]

4. Aquaculture:

5. Socio-economic Statistics:

1. Key economic variables and indicators (New)
2. Employment [K, rewrite]
3. Supply Balance Sheet on Apparent Consumption [P]

Contents - General methodological issues

TEXT:

- Confidentiality
- Use of satellite imageries

Terms:

- Confidentiality
- Acronyms

Classifications:

- ISIC

Archival:

- Anco Hundepol et al 2010. Handbook of Statistical Disclosure Control
ESSNET
- Guidelines on confidentiality developed by Eurostat
- [Global Strategy of Improving Agricultural and Rural Statistics](#)

Contents - Commonly used concepts – time/ area

TEXT:

- Nationality of catch and landings
- **Nationality of aquaculture production**
- Country or areas
- Time units
- **Species/ species groups**
- Major area
- Marine/ Inland water
- Areal grid system
- Fishing areas for statistical purposes

Terms:

- Nationality of catch
- **Geographical entities**
- Flag
- Developed/ developing
- countries/ LIFDC
- Calendar year
- **Species/ Species Groups**
- FAO Major Area
- Marine/ Inland/ Internal waters
- **Population**

Classifications:

- Countries (ISO3/ ISO2/ UN)
- International standard codes for the representation of currencies and funds (ISO 4217)
- ASFIS
- Codes to indicate quadrant and size
- FAO Major Area

Archival:

- Edeson, W.R. "Legal aspects of the collection of fisheries data."
- [List of developed/ developing countries/ LIFDC](#)
- UN. Standard country or area codes for statistical use
- ISO. "Codes for the representation of names of countries and their subdivisions"
- CCAMLR year
- [International Merchandise Trade Statistics: Compilers Manual](#)
- FAO publications on conversion factor

Contents – Commonly used concepts - commodities

TEXT:

- Currencies and funds
- Commodities classification
- Conversion factors

Terms:

- Conversion factors
- Live-weight equivalent
- ISSCFC
- SITC
- HS

Classifications:

- ISSCFC (current and original)
- SITC
- HS
- Indicative conversion factor

Archival:

- Historical commodities codes
- FISHSTAT FC1 Questionnaire
- National/ regional specific conversion factors

Contents – Capture fisheries

TEXT:

- Fisheries statistics
- Methodology for data collection – data poor
- Data for stock management
- Catch and landings
- Logbooks
- VIT/ e-logbooks
- Fishing efforts
- Fishery fleet
- Length of vessels
- Fishing gear classifications
- Fisheries

Terms:

- Stock assessment
- Gross removal/ nominal catch/ landed weight etc.
- Catch diagram
- Discards
- Effort
- CPUE
- Gear selectivity
- Fishing productivity
- VMS
- Abundance indicator
- Vessel type
- Fishery fleet
- Fishing vessels/ non-fishing vessel
- GT/ GRT
- Length of vessels

Classifications:

- Indicative conversion factor
- Possible combination of gear and efforts
- ~~ISSCFV by GRT Categories~~
- ~~ISSCFV by Vessel Types~~
- ISSCFG

Archival:

- Brander, K."Guidelines for collection and compilation of fishery statistics".
- Caddy, J.F. and Bazigos, G.P."Practical guidelines for statistical monitoring of fisheries in manpower limited situations".
- Rana, K.J."Guidelines on the collection of structural aquaculture statistics." Supplement to the Programme for the World Census of Agriculture 2000.
- FAO. "Guidelines for the routine collection of capture fishery data."
- Stamatopoulos, C."Observations on the geometrical properties of accuracy growth in sampling with finite populations."
- J. A. Pope."Guidelines for the establishment of logbook and related systems "
- Eurostat."Fisheries - The collection and compilation of fish catch and landings statistics in member countries of the European Economic Area ",
- Caddy, J.F. and Bazigos, G.P."Practical guidelines for statistical monitoring of fisheries in manpower limited situations"
- FISHSTAT FF

Contents - Aquaculture

TEXT:

- Akjdf;oyawoer

Terms:

- Akjdf;oyawoer

Classifications:

- Akjdf;oyawoer

Archival:

- Akjdf;oyawoer

Contents – Socio-economic

TEXT:

- Key Economic variables and indicators
- SNA
- Employment

Terms:

- Gross value of landing
- Net investments
- Capital value
- Direct subsidies
- Cost of Production
- Full-time/ part-time/ occasional engagement
- FTE
- Recreational
- Registered vessels

Classifications:

- Akjdf;oyawoer

Archival:

- Guideline for cost of production
- Guidelines for fisheries and aquaculture census surveys
- WCA-2020

Contents – Macro/ integrated indicators

TEXT:

- Fisheries statistics for an ecosystem approach
- Abiotic components
- Sustainable development indicators
- SEEA
- SUA and Food Supply Balance

Terms:

- Ecosystem approach
- **VME**
- SEEA
- SUA/FBS

Classifications:

- SEEA Land Use

Archival:

- SEEA Central Framework
- SEEA Experimental Ecosystem Account