

**GFCM - SAC - Workshop on data collection methods
(applied to all segments of the Fleet and their
coherence with the requirements of the GFCM Task 1)**

Rome, 29 September – 1 October 2010



MedFisis
Fishery Statistics and
Information System in
the Mediterranean

**MedFisis contribution to the Task-1 framework
through the Fleet Register**



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Contents

1. Project Background
2. Documentation
3. Software
4. Tools (Built-in & Add-on)
5. Outputs (National, FAO, GFCM including Task-1, EU)



Background

The main MedFisis objectives are:

- Complete and consolidate applications
 - Provide detailed support with “packages” made up of:
 - Assessment & Design guidelines
 - Documentation
 - Software
 - Training & training material
 - Pilot Studies
- Fleet Register
 - CAS sampling
 - CAS logbook
 - Tools

Among other things, constitutes the basis for

- Task-1 static data (capacity, fleet segment, operational units)
Originated from the Fleet Register
- Task-1 dynamic data (landings, effort, species...)
Originated from the CAS applications.






Background – 2010




Review the Census, why?


- GFCM / EC progress and new requirements
- Changes in industry standards (since last version in 2005).
- Make it compatible with GFCM submission procedure (secured maintenance from GFCM).
- New application long-lasting, robust & flexible.


Outcome

- Previous versions:
 - Tailor-made for countries. International outputs not standardised (inducing errors)
- Current version:
 - Regional system built in: FAO, GFCM, EC consolidated (reducing errors in data communication, compatibility and error control).
 - Customization through: enable/disable components
- Final version (structure) for Mediterranean Sea.


  			
Background - Packages			
<p style="text-align: center;"><u>Fleet Register</u></p> <p>Documentation</p> <ul style="list-style-type: none"> • Design & implementation • Field Manuals <ul style="list-style-type: none"> - Recorder - Supervisor - National Focal point <p>Software</p> <ul style="list-style-type: none"> • Technical documentation • User Guide <p>Training material</p> <p>Case Studies</p> <p>Status: Completed</p>	<p style="text-align: center;"><u>CAS Sampling</u></p> <p>Documentation</p> <ul style="list-style-type: none"> • Design & implementation • Field Manuals <ul style="list-style-type: none"> - Recorder - Supervisor - National Focal point <p>Software</p> <ul style="list-style-type: none"> • Technical documentation • User Guide <p>Training material</p> <p>Case Studies</p> <p>Status: ongoing</p>	<p style="text-align: center;"><u>CAS logbook</u></p> <p>Documentation</p> <ul style="list-style-type: none"> • Design & implementation • Field Manuals <ul style="list-style-type: none"> - Recorder - Supervisor - National Focal point <p>Software</p> <ul style="list-style-type: none"> • Technical documentation • User Guide <p>Training material</p> <p>Case Studies</p> <p>Status: ongoing</p>	<p style="text-align: center;"><u>Tools</u></p> <p>Documentation</p> <ul style="list-style-type: none"> • Design & implementation <p>Software</p> <ul style="list-style-type: none"> • Technical documentation • User Guide <p>Training material</p> <p>Status: ongoing</p>

  
Background – Activities
<ul style="list-style-type: none"> • Fleet Register application completed. <ul style="list-style-type: none"> -<u>Compliant</u> with previous software versions. -Ad hoc transfer <u>certified</u> (only if carried out in Rome or under MedFisis supervision). -<u>Automatic output</u> for Task-1. -<u>Support to GFCM</u> to test its XML schema. -Easily adapted to work as a client/server application. • Documentation package; being edited. • Training material; ongoing. • Review of Regional/MedFisis codification; completed. • Review Current National Situation (Questionnaire EN & FR); ongoing. • Support to countries in statistical issues; on call. • Collaboration with CopeMed (MarocStat review); phase I completed. • Webpage development.

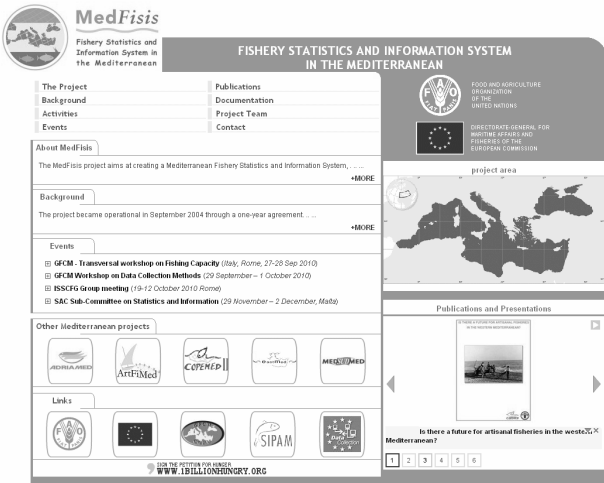





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MedFisis project webpage




The screenshot shows the MedFisis project webpage layout. It includes a navigation menu with links for 'The Project', 'Background', 'Activities', 'Events', 'Publications', 'Documentation', 'Project Team', and 'Contact'. The main content area features a 'project area' map of the Mediterranean region, a list of 'Events' including workshops and meetings, and a section for 'Other Mediterranean projects' with logos for MEDSEA, ARTMED, COPEMED, MESS/MED, and SIPAM. A 'Links' section is also present. The footer contains contact information for the FAO Mediterranean Office.





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Documentation – Survey Approach

“Design and Implementation of National Fishing Vessels Census”


Guidelines

- Addressed to national and international experts.
- Statistical Design: How to set up and launch a statistical survey
- Assessment surveys, Pilot surveys, Quality Check Surveys, Port surveys...
- Database structure and data elements
- Capacity building
- Examples of Quality Check Surveys





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Documentation - Data Collection

Statistical Recorders Book

- Questionnaire: compulsory, common & complementary data elements.
- Data Field Definitions
- References (codification system)


Manuals


- Field Recorders
- Supervisors
- National Focal Point

Software


- Technical Documentation
- User Guides

Training material





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Software

Characteristics

- Similar user interface (data entry)
- Similar set of compulsory data; except EC
- Similar querying

- Access → SQL Server
- Upgraded .NET framework
- Improved functionalities (user/reference management)
- Updated Reference Files (MedFisis, GFCM, EC, FAO FF-1)
- More capability for customization
- Data submission improved.



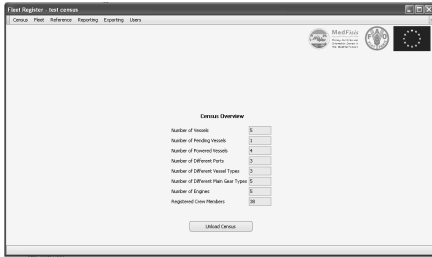
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Fleet Register

Username:

Password:

Login Cancel



Census Overview

Number of vessels	5
Number of fishing vessels	3
Number of powered vessels	4
Number of powered fishery	3
Number of different vessel types	3
Number of different main gear types	5
Number of engines	8
Registered crew/members	28

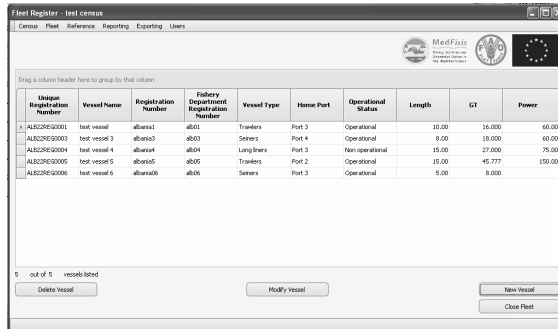
Update Census



Software

Special Features

- Calculates the Fleet Segment automatically
 - Individuates Operational Units (except economic data)
 - Set-up customised (reference files / language)
 - Creates a sealed copy at each official export or report produced
- } Based on customizable matching tables



Tools

Built-in tools


1. Consistency check (missing data and data formats)
2. Date analysis
3. Range of numerical data (min – max) (integrity check)
4. Data validation: GT-LoA-Power (numerical data).
Correlation coefficients calculated from regional registry.
Range of values can be customized with the country's fleet data.
5. Checks for relationships (matching tables):


Gear/Fleet Segment/Species

Code	Gear	Fleet Segment												
		A	B	C	D	E	F	G	H	I	J	K	L	M
100	Vibrocara beam (pau-revec)	X	X											
		X	X											
		X	X											
		X	X											
110	One boat operated push net													
120	Two boat operated push net													
130	Vibrocara push beam (pau-revec)													
200	Beam trawl	X	X	X										
		X	X	X										
		X	X	X										
		X	X	X										


Gear/Vessel Type

Code	Gear	Vessel Type	Code	Match			
				Match	Code	Match	Code
100	Vibrocara beam (pau-revec)	Push Net	0213				
110	One boat operated push net	Push Net	0213				
120	Two boat operated push net	Push Net	0213				
130	Vibrocara push beam (pau-revec)	Push Net	0213				
200	Beam trawl	Trawler	0213				






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Tools


Add-on tools

1. Import from third-party systems
(being considered depending on requests)
2. Construction of the Sampling Frame
(design phase)
3. Extraction of the Logbook directory





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Outputs

National

- Fleet reports (Small, standard, full & custom fleet reports)
- Statistical reports ("distribution" and summary statistics reports).
- Fleet exports (full fleet, CAS or query) } Excel/XML
Readable/coded

Port	Number	%
Port of Spain	2	20%
Port of Italy	2	20%
Port of France	1	10%
Total	5	100%

Outputs

FAO

- FAO FishStat FF-1 and FF-2

FISHERY FLEET		NUMBER of DECKED vessels / TOTAL TONNAGE and total POWER, by LGA (Length/Depth) and TYPES										FISHSTAT FF-1 Fishery Fleet Summary 31 September 2018																																																											
ISL	IS	IS1	IS2	IS3	IS4	IS5	IS6	IS7	IS8	IS9	IS10	IS11	IS12	IS13	IS14	IS15	IS16	IS17	IS18	IS19	IS20	IS21	IS22	IS23	IS24	IS25	IS26	IS27	IS28	IS29	IS30	IS31	IS32	IS33	IS34	IS35	IS36	IS37	IS38	IS39	IS40																														
ISL	IS	IS1	IS2	IS3	IS4	IS5	IS6	IS7	IS8	IS9	IS10	IS11	IS12	IS13	IS14	IS15	IS16	IS17	IS18	IS19	IS20	IS21	IS22	IS23	IS24	IS25	IS26	IS27	IS28	IS29	IS30	IS31	IS32	IS33	IS34	IS35	IS36	IS37	IS38	IS39	IS40	IS41	IS42	IS43	IS44	IS45	IS46	IS47	IS48	IS49	IS50	IS51	IS52	IS53	IS54	IS55	IS56	IS57	IS58	IS59	IS60	IS61	IS62	IS63	IS64	IS65	IS66	IS67	IS68	IS69	IS70
ISL	IS	IS1	IS2	IS3	IS4	IS5	IS6	IS7	IS8	IS9	IS10	IS11	IS12	IS13	IS14	IS15	IS16	IS17	IS18	IS19	IS20	IS21	IS22	IS23	IS24	IS25	IS26	IS27	IS28	IS29	IS30	IS31	IS32	IS33	IS34	IS35	IS36	IS37	IS38	IS39	IS40	IS41	IS42	IS43	IS44	IS45	IS46	IS47	IS48	IS49	IS50	IS51	IS52	IS53	IS54	IS55	IS56	IS57	IS58	IS59	IS60	IS61	IS62	IS63	IS64	IS65	IS66	IS67	IS68	IS69	IS70

GFCM

- Fleet register
- Fleet register updates
- AVL
- Task-1

} XML format

EU

- Snapshot (all events: insertions, modifications and deletions)

} CSV format

What's next?

- Assist countries by providing immediate support
- Sub-committee meeting Malta
 Presentation of work done on CAS (Sampling & Logbook)
- Integrate sub-committee guidance in project follow-up