GFCM - SAC – Sub-committees

SCSI

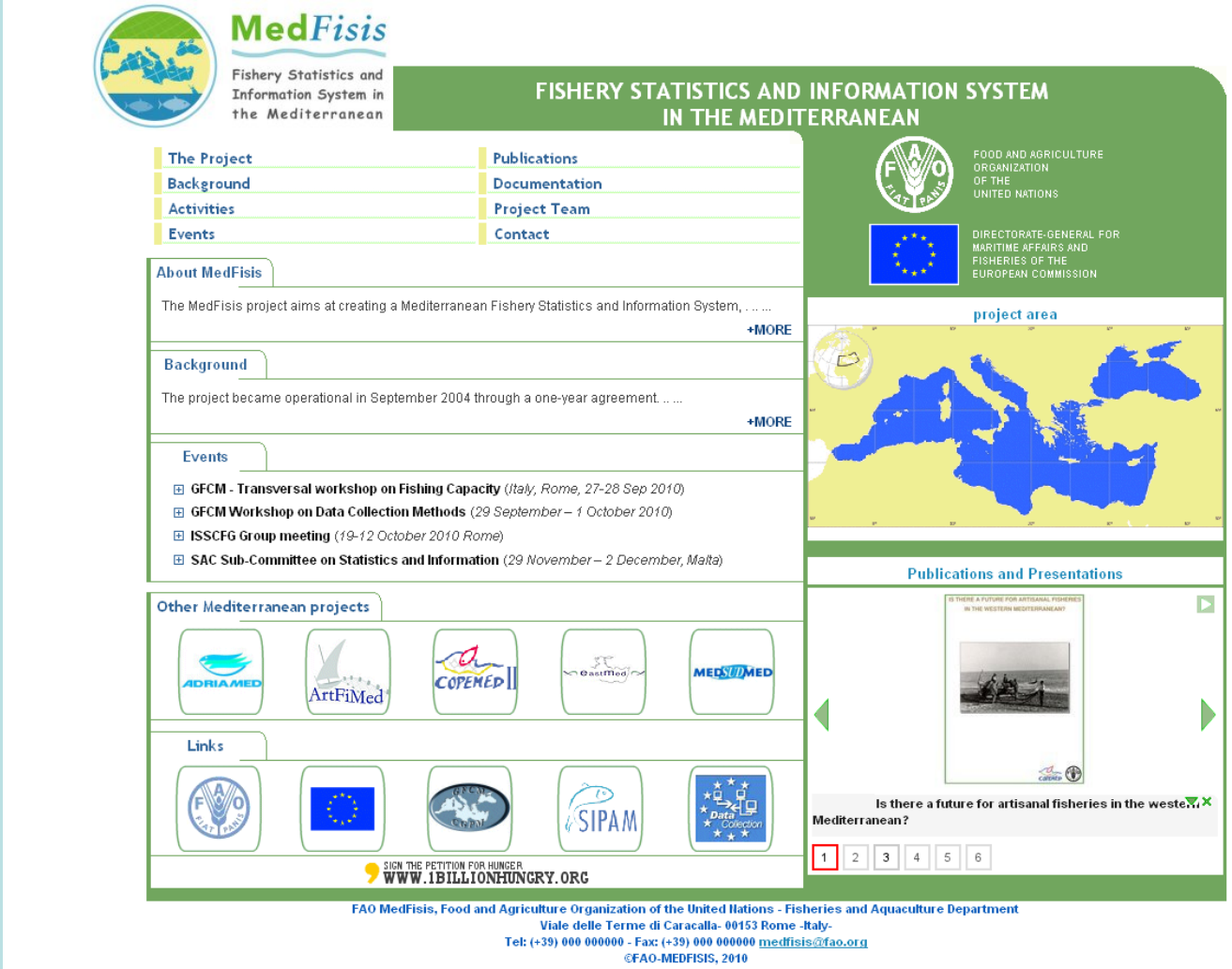
Rome, 23-26 January 2012

MedFisis

Fishery Statistics and Information System in the Mediterranean

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

MedFisis project webpage (www.faomedfisis.org)



MedFisis
Fishery Statistics and Information System in the Mediterranean

Contents

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

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

Fleet Register

Documentation
- Design & implementation
- Field Manuals
  - Recorder
  - Supervisor
  - National Focal point

Software
- Technical documentation
- User Guide

Training material

Case Studies

Status: Completed

CAS Sampling

Documentation
- Design & implementation
- Field Manuals
  - Recorder
  - Supervisor
  - National Focal point

Software
- Technical documentation
- User Guide

Training material

Case Studies

Status: ongoing

CAS logbook

Documentation
- Design & implementation
- Field Manuals
  - Recorder
  - Supervisor
  - National Focal point

Software
- Technical documentation
- User Guide

Training material

Case Studies

Status: ongoing

Tools

Documentation
- Design & implementation

Software
- Technical documentation
- User Guide

Training material

Status: ongoing

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

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

MedStat 2011 – Fishing Vessel Census

CENSUS DESIGN AND IMPLEMENTATION

By

Salvatore Coppola, Alicia Mosteiro and Matthew Camilleri

MedFisis technical document

FAO, Rome 2011

Fishery Statistics and Information System in the Mediterranean
MedFisis Project (Year 3) GCP/INT/918/EC

MedStat 2011 – Fishing Vessel Census

OPERATIONAL MANUAL

By

Salvatore Coppola, Alicia Mosteiro and Matthew Camilleri

MedFisis technical document

FAO, Rome 2011

Fishery Statistics and Information System in the Mediterranean
MedFisis Project (Year 3) GCP/INT/918/EC

MedStat 2011 – Fishing Vessel Census

Operational Manual – Supplement 0

Basic Structure

MedFisis technical document

FAO, Rome 2011

Fishery Statistics and Information System in the Mediterranean
MedFisis Project (Year 3) GCP/INT/918/EC

MedStat 2011 – Fishing Vessel Census

TRAINING MANUAL

By

Derek Pilgrim, Salvatore Coppola, Alicia Mosteiro and Matthew Camilleri

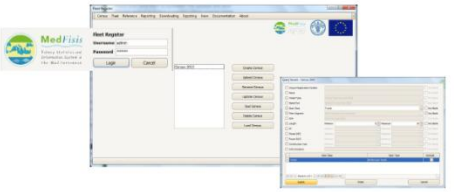
MedFisis technical document

FAO, Rome 2011

Fishery Statistics and Information System in the Mediterranean
MedFisis Project (Year 3) GCP/INT/918/

MedStat 2011 – Fishing Vessel Census

Fishing Vessel Register Software
Technical Documentation



by

Dawn Borg Costanzi

MedFisis Technical Document
FAO
Rome 2011

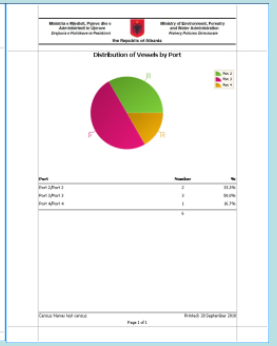
Fishery Statistics and Information System in the Mediterranean
MedFisis Project (Year 3) GCP/INT/918/EC

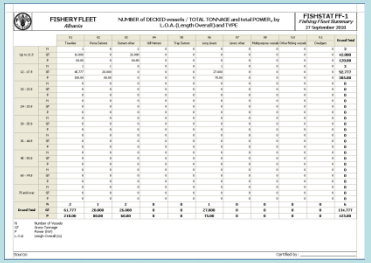
…..+ Software
User Guide
(in preparation)

Fleet Register (software)

Application completed

- Regional system built in: FAO, GFCM, EC consolidated
- Customization through: enable/disable components
- Basis for:
  - National information system
    - Fleet reports
    - Statistical reports
    - Exports (excel, XML)
  - Task-1 static data
    - Task 1.1: capacity, fleet segment, O.U.
    - Task 1.2 & 1.3: vessel characteristics, main gear, etc
    - GSA visited
  - EU snapshot and FAO FishStat FF1 & FF2 forms
  - Other requirements: VMS, AVL, Licensing System, CAS, ICCAT register…



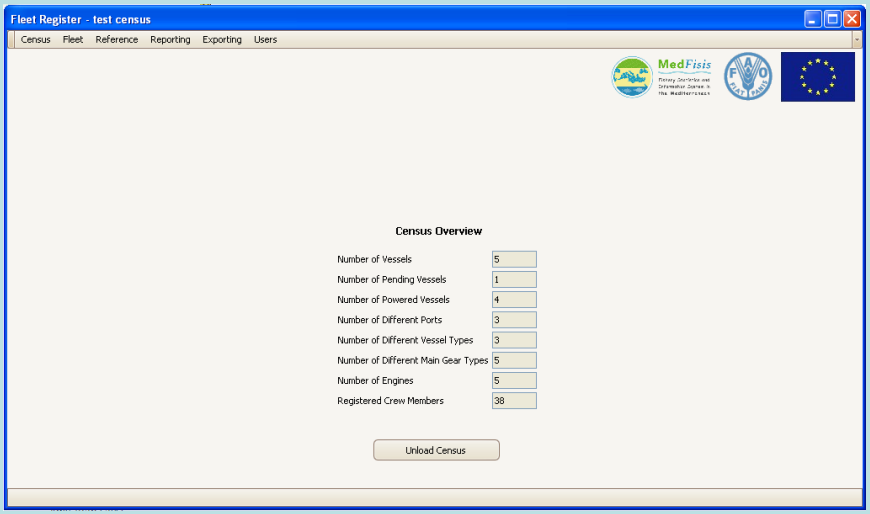


Software

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.



Software

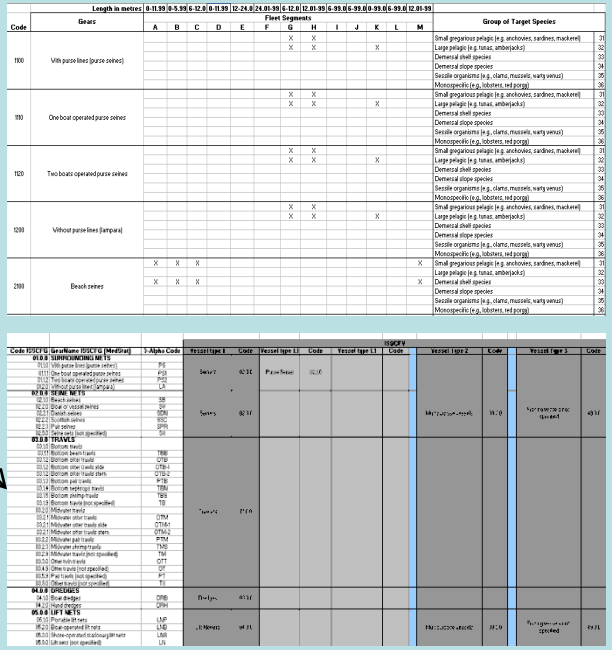
Special Features

- 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

Built-in Tools

- Consistency and Integrity checks
- Data Validation: GT-LoA-Power
- Checks for relationships (matching tables)



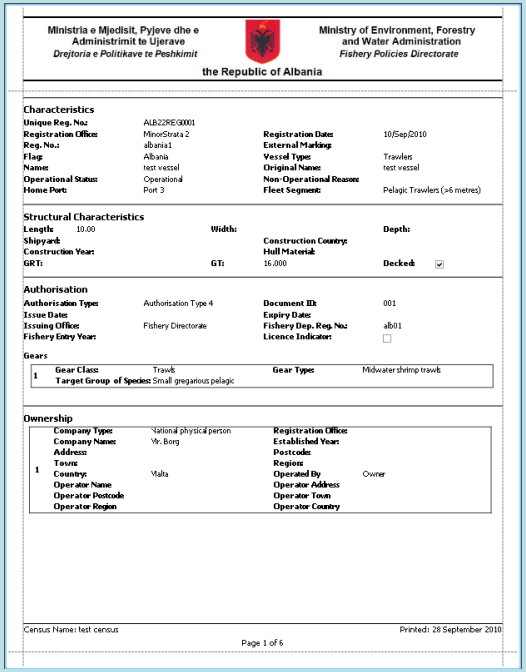
Add-on tools

- Import from third-party systems
- Construction of the Sampling Frame
- Extraction of the Logbook directory

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


Ministria e Mjedisit, Pyjeve dhe e Administrimit te Ujerave
Drejtoria e Politikave te Peshkimit
Ministry of Environment, Forestry and Water Administration
Fishery Policies Directorate
the Republic of Albania

Characteristics
Unique Reg. No: ALB22REG0001
Registration Office: MinorStrata 2
Reg. No.: albania1
Flag: Albania
Name: test vessel
Operational Status: Operational
Home Port: Port 3
Registration Date: 10/Sep/2010
External Marking:
Vessel Type: Trawlers
Original Name: test vessel
Non-Operational Reason:
Fleet Segment: Pelagic Trawlers (>6 metres)

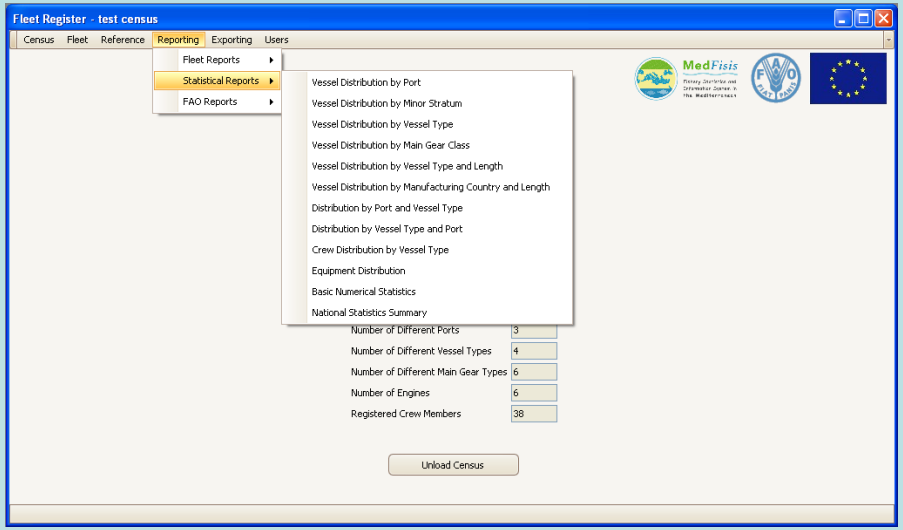
Structural Characteristics
Length: 10.00
Width:
Depth:
Shipyard:
Construction Year:
Construction Country:
Hull Material:
GRT:
GT: 16.000
Decked:

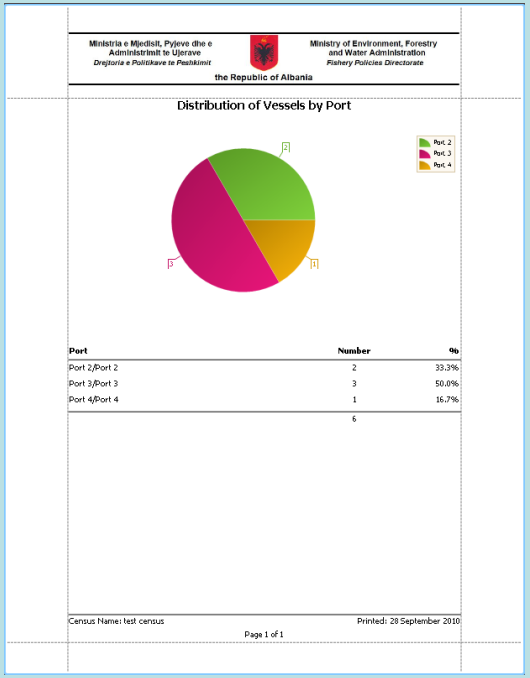
Authorisation
Authorisation Type: Authorisation Type 4
Issue Date:
Issuing Office: Fishery Directorate
Fishery Entry Year:
Document ID: 001
Expiry Date:
Fishery Dep. Reg. No.: alb01
Licence Indicator:

Gears
1 Gear Class: Trawls
Gear Type: Midwater shrimp trawls
Target Group of Species: Small gregarious pelagic

Ownership
1 Company Type: National physical person
Company Name: Mr. Borg
Address:
Town:
Country: Malta
Operator Name
Operator Postcode
Operator Region
Registration Office:
Established Year:
Postcode:
Region:
Operated By: Owner
Operator Address
Operator Town
Operator Country

Census Name: test census
Printed: 28 September 2010
Page 1 of 6




Ministria e Mjedisit, Pyjeve dhe e Administrimit te Ujerave
Drejtoria e Politikave te Peshkimit
Ministry of Environment, Forestry and Water Administration
Fishery Policies Directorate
the Republic of Albania

Distribution of Vessels by Port

Port	Number	%
Port 2/Port 2	2	33.3%
Port 3/Port 3	3	50.0%
Port 4/Port 4	1	16.7%
	6	

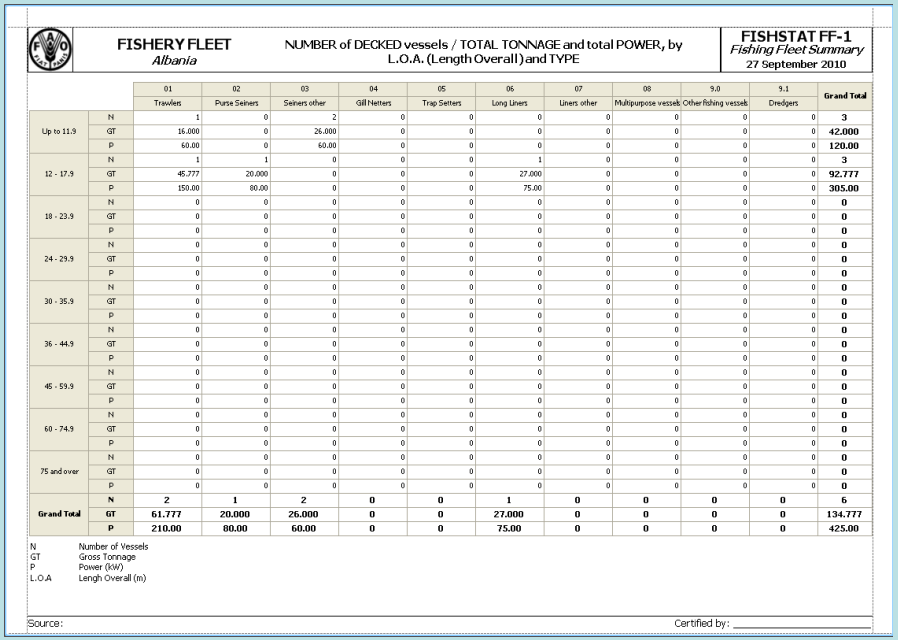
Census Name: test census
Printed: 28 September 2010
Page 1 of 1

MedFisis
Fishery Statistics and Information System in the Mediterranean

Outputs

FAO

- FAO FishStat FF-1 and FF-2



FISHERY FLEET — *Albania*

NUMBER of DECKED vessels / TOTAL TONNAGE and total POWER, by L.O.A. (Length Overall) and TYPE

FISHSTAT FF-1 — *Fishing Fleet Summary* — 27 September 2010

		01 Trawlers	02 Purse Seiners	03 Seiners other	04 Gill Netters	05 Trap Setters	06 Long Liners	07 Liners other	08 Multipurpose vessels	9.0 Other fishing vessels	9.1 Dredgers	Grand Total
Up to 11.9	N	1	0	2	0	0	0	0	0	0	0	3
	GT	16.000	0	26.000	0	0	0	0	0	0	0	42.000
	P	60.00	0	60.00	0	0	0	0	0	0	0	120.00
12 - 17.9	N	1	1	0	0	0	1	0	0	0	0	3
	GT	45.777	20.000	0	0	0	27.000	0	0	0	0	92.777
	P	150.00	80.00	0	0	0	75.00	0	0	0	0	305.00
18 - 23.9	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
24 - 29.9	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
30 - 35.9	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
36 - 44.9	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
45 - 59.9	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
60 - 74.9	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
75 and over	N	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	0
Grand Total	**N**	**2**	**1**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**6**
	GT	**61.777**	**20.000**	**26.000**	**0**	**0**	**27.000**	**0**	**0**	**0**	**0**	**134.777**
	P	**210.00**	**80.00**	**60.00**	**0**	**0**	**75.00**	**0**	**0**	**0**	**0**	**425.00**

N Number of Vessels
GT Gross Tonnage
P Power (kW)
L.O.A Lengh Overall (m)

Source: Certified by: _____

GFCM

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

} XML format

EU

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

} CSV format

Technical Assistance

Transfer of historical data and customisation of application

- Lebanon

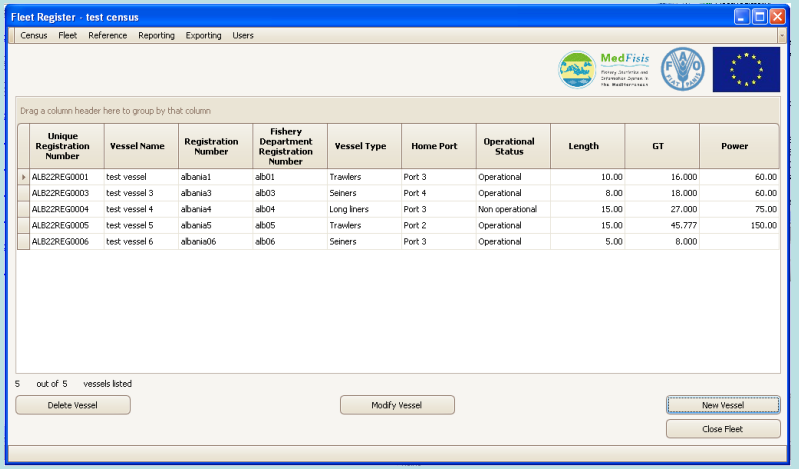
  Visit to Rome 15-19th November 2010

- Albania

  visit to Rome 6-10th December 2010

- Egypt

  visit to Rome 13-17th December 2010



Technical Assistance

Lebanon - Objectives

- Review the Lebanese Fleet Register and validate census data
- Transfer of historical data into new software & customisation of the application to Lebanese needs
- Analyse the development of a Licensing System linked to the Fleet Register

Technical Assistance

Lebanon – Tasks carried out in Rome

- ✓ Revision of Questionnaire (national fields) and update of changes in the application. Translation of Questionnaire and Reference Tables into Arabic made available by Lebanon.
- ✓ Revision of Reference tables with addition of national fields appropriately linked to International Standard Classification.
- ✓ Definition of National Reference tables:
  - Recorders
  - Fishing Zones
  - Authorisation types
  - Ports
  - Minor Strata
  - Issuing offices

Technical Assistance

Lebanon – Tasks carried out in Rome

- ✓ Tested standard application.
- ✓ Suggestions & modifications carried out during customization.
- ✓ Most GT data missing: estimated GFCM:SAC11/2008/Inf.12.
- ✓ 50% GRT data missing: estimated through regressions.
- ✓ Historical data transferred to new customised application.
- ✓ DB structure & Reference tables → Inland Stratum & Non-fishing
- ✓ Further changes or modifications are feasible on demand.

Technical Assistance

Lebanon – Future Requests

- Creation of Read-Only version of application
- Definition of Inland Stratum & Sub-Set of Non-Fishing Vessels
- Creation of Fishing Licensing and Monitoring System linked to the Fleet Registry
  - Prototype: View-only & Licensing capability
  - Client-Server application: update of Fleet Register through Licenses
- Arabic version of the software is available through customization

Technical Assistance

Egypt

- Review of Questionnaire (fields) & Reference tables (+links)
- Define National Reference tables
- Customization of application & testing
- Translation of Questionnaire into Arabic

Albania

- Review of Questionnaire (fields) & Reference tables (+links)
- Define National Reference tables
- Customization of application
- Transfer of historical data & testing

MedFisis
Fishery Statistics and Information System in the Mediterranean

Thank you!