



**GENERAL FISHERIES COMMISSION
FOR THE MEDITERRANEAN
COMMISSION GÉNÉRALE DES PÊCHES
POUR LA MÉDITERRANÉE**



Viale delle Terme di Caracalla 1, 00153 Rome, Italy. Tel: + 39 0657055730 www.gfcm.org

**GENERAL FISHERIES COMMISSION FOR THE
MEDITERRANEAN**

SCIENTIFIC ADVISORY COMMITTEE (SAC)

**SAC meetings of the Sub-Committees
(SCSI, SCSA, SCESS, SCMEE)**

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List of Abstracts*

**As received by the GFCM Secretariat*

Manal Nader, Lebanon

The main goal of the “Assessing small scale fisheries in North Lebanon” initiative is to establish long-term monitoring of commercial fish species landings and effort in order to develop appropriate management plans based on scientific data to sustainably benefit from the resource. The data collection is an indirect method where data is collected twice per week all year round. The data is gathered from the four main fishing harbours and main fish markets while fishing effort is obtained from the records of the Lebanese Army that records boat activity on a daily basis. The variables currently being evaluated are:

- Fishing gear type (Entangling Nets, Fences, Surrounding nets Lines, Pots)
- Fish species landed per gear type: Quantity (Kg)
- Average fish size (# Fish/Kg)
- Prices (L.L./Kg)
- Fishing effort: Total number of fishing boat outings during 24 hours; and number of fishing boats per gear type

Data is then entered into FLOUCA utility (Lebanese term for fishing boat and stands for **F**ish **L**anding **O**perational **U**tility for **C**atch **A**ssessment) based on the generic software and standard statistical methodology available on the web by the FAO. The system is structured into four distinct but inter-related components:

- **FLOUCA 1:** creates automatically sampling frames (i.e. extrapolating factors) for the estimation of fishing effort. It is not used currently as at the launching of a monitoring system, a fishing vessel register was not available. The recent publication of the MEDFISIS report by the Ministry of Agriculture that includes the register will allow the use of this component
- **FLOUCA 2:** Works on sample data and generates monthly estimates on catch, effort, CPUE, prices, values, average fish weight and number of individuals in the catch. The collected data is entered into this component of the system
- **FLOUCA 3:** Integrates monthly estimates into year-based databases. It is the principal program for reporting raw and grouped data. Data from this component can easily be exported to **EXCEL** for further statistical analysis
- **FLOUCA.Net:** is a utility that reads records of estimates produced by FLOUCA 2 and automatically generates web-supported reports. It involves all monthly estimates as well as a synthesis of yearly figures. Variables reported are catch, effort, CPUE, prices, values and compound accuracy of estimation (expressed as %).