

March 2010



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



**GENERAL FISHERIES COMMISSION FOR THE MEDITERRANEAN**

**First Session of the Committee on Administration and Finance**

**Athens, Greece, 14-17 April 2010**

**DUTIES AND RESPONSIBILITIES OF AN EXPERT IN STOCK  
ASSESSMENT AND POPULATION DYNAMIC WITHIN THE  
SECRETARIAT**

### **Duties and Responsibilities**

Under the overall guidance of the GFCM Executive Secretary and the general supervision of the Deputy Executive Secretary, to be responsible for the development and maintenance of procedures for quality assurance of stock assessments and related scientific advice to the Commission.

Specific duties include:

- to establish review mechanisms to benefit both the individual scientists involved in the GFCM/ Scientific Advisory Committee (SAC) Sub-Committee and specialized Working groups on stock assessments and to foster consistency in approach and assumptions made for various assessments of the Mediterranean fisheries as well as in the scientific advice provided to the Commission.
- to guide and conduct performance evaluations of the available assessment models, clarify the implicit assumptions, establish rules and guidelines on their appropriate use and normalize the methods, and maintain at the Secretariat, the software accepted for use by the various Working Groups. This guidance would, in turn, be available to all scientists interested in the assessment work carried out and would give more transparency to the results of assessment analyses.
- Active participation in the Secretariat scientific work in the following areas:

- The maintenance and dissemination of appropriate and approved software for analyses of GFCM fish stocks and maintenance and archives of previous assessments data and analytical methodology.
- Participation in multi-disciplinary teams and committees to develop quality control procedures for GFCM assessment methodologies and data bases.
- The review, in collaboration with the GFCM biostatistician, of fishery data collection proposals and advice on their technical feasibility and the soundness of proposed institutional arrangements.
- The contribution to the organization and improvement of the data management system of the GFCM data base and preparation of data for stock assessments, including the development of specific software to facilitate such work.
- The review of the limitation of the quality of data and their variability.
- Assistance to scientific groups in drafting and/or finalizing their reports.
- Maintain close collaboration with regional projects for the stock assessment carried out at sub-regional level.
- Regularly update the stock assessment forms and similar tools.
- Perform other related duties as described.

#### **Qualifications and Experience - Essential**

- High degree in Fisheries, or a closely related field
- Various years of progressively responsible experience in quantitative analysis of fisheries stock assessments and the development of management advice based upon scientific studies, including the planning and implementation of review processes, substantial experience in the development of procedures for fisheries assessment, and the generation of management advice.
- Familiarity with fisheries biology, environmental and assessment science methodologies including statistical/mathematical modelling methods in which population models are statistically matched to fisheries/biological/environmental observational data.

- Demonstrated ability to make judicious choices as to the appropriateness of models based upon available data experience in utilizing fishery data bases for use in assessments.
- Experience in leading and participating in multi-disciplinary teams for fisheries biology and assessment
- Demonstrated experience in computer modelling technology as it pertains to fisheries assessment and environmental data bases.
- Demonstrated capacity to conceptualize and quantify scientific problems associated with fisheries assessment and management and to communicate these orally and in writing.
- Ability to work well under pressure and to work effectively and harmoniously with people of different national and cultural backgrounds
- Excellent working knowledge of English with limited knowledge of French

**Qualifications and Experience - Desirable**

- A high degree in Fisheries or a related field.
- Experience in developing new mathematical modelling techniques for fisheries stock assessment.
- Experience in designing and developing fishery databases for multiple users.