



4th Meeting of the CopeMed II Coordination Committee Madrid, Spain 28-29 April 2011

PROPOSAL OF PRIORITY ACTIVITIES FOR THE 4th YEAR OF CopeMed II

This document aims to offer the Coordination Committee members elements for discussion on the CopeMed II Project Work Programme for the coming months.

CopeMed Phase II aims at: (i) strengthening the national capacity to obtain fisheries statistical data; (ii) maintaining the sustainability of the marine resources in the Central and Western sub-regions; and (iii) facilitating the scientific cooperation among the countries from the Western and Central sub-regions of the Mediterranean.

The overall objective of CopeMed Phase II aims at maintaining the sustainability of the marine resources in the Central and Western sub-regions and its ecosystem, taking into account environmental, biological, economical, social and institutional issues and facilitates the scientific cooperation among the Western and Central sub-regions of the Mediterranean.

The project will continue to be executed by the Marine and Inland Fisheries Service (FIRF) of the Fisheries and Aquaculture Resources Use and Conservation Division of FAO, being also the Lead Technical Unit with operational functions. Close collaboration and coordination with the other sub-regional Mediterranean Projects (AdriaMed, MedSudMed, MedFiSis and EastMed) and GFCM is provided by FIRF Coordination.

The work plan is built around the three immediate objectives and their corresponding activities taking into account the objectives and results achieved so far, the recommendations received during the 3rd Coordination Committee meeting (May 2010, Tunis, Tunisia), as well as the scientific cooperation established with the members and within the framework of the GFCM.

The final Workplan will take into due account the recommendations of the 4th Coordination Committee meeting, in accordance with the priority expressed by the countries on each activity and directly linked to the budget availability until the end of the Project.

CopeMed II. 2011 Workplan.

During the 3rd Coordination Committee meeting held in Tunis, (May 2010) there was a general agreement between the countries representatives on the necessity to prioritize the activities proposed on few issues involving all the participating countries rather than have many activities involving one or two countries only and to have all the member countries involved to the same extent in the Project activities. Moreover, efforts have been made, in coordination with the participating countries and all the Mediterranean Regional Projects, to draft a tentative common calendar of the activities, in order to avoid any overlap as well as to find synergies and strengthen the coordination among the activities of the Regional Projects.

According to the existing information at the preparation of the document, the NTE date for CopeMed II Spain (project GCP/INT/028/SPA) is end of July 2011. Project CopeMed II European Commission (GCP/INT/06/EC) should finish in September 2011.

In order to facilitate the presentation of the Workplan for the next months, all the activities were organized into the following main themes:

- Technical support to countries on statistics
- Socio-economic indicators
- Subregional research activities related with shared stocks
- Training activities
- Other subregional and national research activities
- Regional cooperation
- Reporting and documentation

Technical support to countries on Statistics

In collaboration with MedFisis, CopeMed could support and co-organize informative sessions to the countries that are involved in both projects, in order to improve the country's capacity on Statistics. Joint sessions will be prepared to present the new software created by MedFisis, including new fleet register. Tentative dates and place will be agreed with MedFisis.

An international consultant and two national consultants from Tunisia should work in the diagnosis of the national small scale fisheries statistical system, including the identification of weaknesses and gaps, and prepare a draft project for monitoring these fisheries. It is foreseen to have the report of the mission and the draft TCP project during May 2011. A meeting will be organised in Malaga between the consultant and CopeMed staff to finish the report at the end of May and a meeting in June with the DGPM in Tunis, with the participation of the FAOSNE Office.

Under request and defined TORs, CopeMed II will support Algerian CNRDPA in fisheries and biological data collection methodologies for stocks assessment.

Socio-economic indicators

Following the SAC request, the project contacted the editor (Dr. Ramon Franquesa, Barcelona University) of the document *The estimation of economic indicators for Mediterranean fisheries* to finalize and published the document for broad distribution in collaboration with the GFCM Secretariat and the SCESS coordinator. The original document is in Spanish and the project could distribute it as pdf version according to the editor. The support of CopeMed II for translation to English should be discussed by the Committee. Alternatively, a translation by the GFCM and the edition as a GFCM Studies and Reviews or similar.

Subregional research activities related with shared stocks

Demersal stocks

The organization of the meeting on the shared stock *Coryphaena hippurus* could be arranged in May, hosting by the Institut National des Sciences et Technologies de la Mer (INSTM) of Tunisia. The meeting will be co-organized with the MedSudMed II project and it will be opened to the network of experts of the other FAO Mediterranean Regional Project.

Joint stock assessment on *Parapenaeus longirostris* co-organized with MedSudMed for the Sicily Strait area, participating Italy, Malta, Libya, Tunisia and Algeria. The WG (Mazara del Vallo, September, 2010) pointed out the importance to give most visibility to this cooperative work. Therefore, the possibility to produce a Technical Document summarising the work carried out was also discussed and agreed on. In addition, the WG agreed that based on the results obtained a

scientific paper could also be produced and submitted for publication on a scientific journal. The same approach (joint CopeMed-MedSudMed co-organisation) could be used for a joint stock assessment of *Merluccius merluccius* in the south-central Mediterranean.

According to the SCSA recommendation adopted by SAC on the joint assessment between Morocco and Spain on *Pagellus bogaraveo* the Management option adopted said *Decrease the fishing effort. Adopt the same management measure in GSA 03 and GSA 01. Improve the sampling standardisation. Maintain the joint assessment*". The WG comment was: *Improve the biological sampling and estimate the importance of the catches of juveniles that occur in more shallow areas by trawlers in order to improve the assessment in the case such removal be assessed as not negligible. The WG endorsed the assessment and recommendations.* If requested by the two countries CopeMed could support some activity as requested by SAC and the SCSA.

The joint Subregional Demersal WG (SRDWG) co-organised with MedSudMed (Mazzara del Valo, September 2010) agreed that two new WG on shared stocks should be organised during 2011: *Merluccius merluccius* in the Sicily channel and *P. longirostris* between Algeria, Morocco and Spain. The SRDWG acknowledged the importance to complete the mapping of nurseries and spawning grounds, to provide synoptic maps of fishing grounds for national fleets and to plan appropriate genetic studies to compare geographically distant populations. According to the SRDWG, these activities should be considered for discussion during the next Projects Coordination Committee meetings. The TOR for the WG on *P. longirostris* prepared by Morocco (Annex 1) are included for discussion.

Small pelagic stocks

CopeMed organised a workshop (WS) on small pelagic stocks from the Alboran Sea and related activities. The meeting agreed in creating a working group within the Subregional Pelagic WG, to improve the current knowledge on the north and south exploited resources of sardine and anchovy and other commercial species and advances in the knowledge of the status of the stocks. TORs are included (Annex 2) for discussion and improvement by the Coordination Committee. The Date and Venue of the WS should be agreed. Other members of the project are also invited to participate in this WS.

Annual joint Subregional Pelagic WG (SRPWG) in collaboration with MedSudMed will be co-organised aiming to discuss results from the different joint assessment and documents produced by the different WGs previously mentioned.

Training activities

A training course on basic stock assessment, organized in collaboration with the other subregional projects and with the support of the FIRF Fishery Resource Officer, will be considered by MedSudMed. The Committee should decide in reinforcing the cooperation and improve synergies with the other FAO Mediterranean Projects by supporting the organisation of this activity and proposing issues to be included in the TOR for a stocks assessment basic training at regional level.

On-the-job training in research vessels on standard acoustic methodologies for stocks assessment has been requested by some countries, mainly by Algeria. CopeMed II organised a theoretical acoustic course in January 2011 in collaboration with the IEO (Spain) for experts from the countries requesting the training, Algeria, Morocco and Tunisia. For the follow up of this training, the participants agreed in continuing the practical training and especially on-the-job training at acoustics surveys and data analysis. Taking advantage of the experience in implementing these methodologies from the project' countries (north and south) and also from experiences in other areas as the AdriaMed region, on-the-job training during acoustic surveys should be considered and discussed by

the Committee. Specific requests on participation in acoustic surveys during 2011 should be presented by the national coordinators during the Committee meeting for discussion.

On-the-job training in research vessels on standard methodologies for the assessment of demersal stocks was requested by Algeria. Take advantage of the experience in implementing these methodologies from the project's countries (north and south) and also from experiences in other areas as the AdriaMed and MedSudMed regions, should be considered by the Committee. Specific requests on participation in demersal annual surveys during 2011 for on-the-job training on direct assessment methodologies should be presented by the national focal point during the Committee meeting for discussion.

Training on EAF. Last year a training course on ecosystem approach to fisheries management was organised by GEF_MedLME project in collaboration with AdriaMed and the participation of Tunisian experts. If agreed by the Committee the Project could promote the organization of sub-regional/regional meetings and training sessions on the integration of EAF principles in the management processes involving scientists and management representatives, in collaboration with the other Mediterranean projects.

On-the-job training: trawl gear selectivity and selection parameters using the double cod-end methodology. CNRDPA will be assisted by CopeMed II in implementing a research survey on selectivity using a gear cod-end of 40 mm square mesh size and a cover cod-end in a commercial trawler in the region of Oran during April-May 2011. The objective is to have biological and economic data related with the selectivity of this commercial gear and the 40 mm square cod-end. Results will facilitate the administrative decision for the implementation of this GFCM measure in Algeria.

Other training activities that could be priority for the subregión or to some specific country, as for example training courses organised by CIHEAM on fisheries related issues, should be presented by the national focal point during this point of the Agenda for general discussion.

Other subregional and national research activities

Experts from Algeria, Morocco and Tunisia were participating in the EU MEDIAS annual meeting on small pelagic standardisation. To reinforce the regional fisheries science and to facilitate the convergence in common methodologies for stocks assessment using direct methods in the Mediterranean, the participation of experts from the non EU-countries supported by CopeMed should be considered by the Committee, including priorities according the countries needs.

Closed season was discussed during the SRDWG (Mazara, 2010) by the participants. In the view to harmonise the use of such management tool in the Projects area, collaboration between MedSudMed and CopeMed in organising a meeting to address this issue and to better define the current situation in each country of the two projects should be decided by the Committee.

Scientific investigation by using pelagic net (24 m and 35 m horizontal and vertical opening respectively) in the south central Mediterranean was discussed between the MedSudMed partners during SAC (Marseille, 7-11 February 2011). As the same net has been already used for pelagic trawling in Tunisia, CopeMed II includes reference to this activity in the work plan to be discussed during the Coordination Committee and coordinate activities with MedSudMed.

Regional cooperation

Strengthening the cooperation with the other FAO Regional Mediterranean Projects

The existing cooperation with ArtFiMed Project will continue by incorporating the activities of this project to a single six month progress report, as agreed with the Spanish donors. Further collaboration with the other regional Mediterranean FAO-FIR projects (RP) MedSudMed, MedFisis, AdriaMed, and

EastMed will be reinforced. In this context, synergies are foreseen with the other regional Projects, also taking into consideration the indications collected during the internal coordination meeting among the Projects (Rome, January 2011). Several coordination meeting of the Mediterranean Regional Projects have already been planned in 2011 in order to consolidate and coordinate common activities. The preparation of common informative material that can improve the visibility of the FAO RPs in the Mediterranean area and in the international context is foreseen. Areas of cooperation have been indicated for shared stocks, mainly with MedSudMed, statistics, surveys at sea, closed seasons, and other aspects of fisheries.

Training activities will be coordinated among all the Projects, in order to avoid duplication or overlapping of activities. The participation of other RP experts in training courses organized by CopeMed II will be foreseen as well as the contrary.

Moreover, the Project will participate in the Coordination Committees of MedSudMed (May 2011), and in the AdriaMed and EastMed if possible, where additional synergies will be identified.

Strengthening the cooperation with other initiatives in the region

Cooperation with international institutions or projects and synergies with other initiatives acting in the western and central Mediterranean region regarding fishery subjects will be sought for the sake of avoiding duplication of efforts and optimizing the use of financial resources.

In particular, synergies are sought with the GEF Mediterranean Large Marine Ecosystem - MedSea LME Project, for the identification of priorities for mainstreaming the Ecosystem Approach to Fisheries into fisheries research and management and in the management of Marine Protected Areas by reinforcing the artisanal fisher's participation.

CopeMed II cooperation with CIHEAM aimed in supporting the participation of experts from the CopeMed countries in international course on Sustainable fisheries management, also as teachers.

Strengthening the cooperation with the GFCM

The Project will continue to strengthen international and regional cooperation at Mediterranean level with the GFCM, SAC and its subsidiary bodies through the preparation of scientific contributions for GFCM events, the participation of experts from the CopeMed countries in GFCM events and through support to the countries to be compliant with the GFCM requests and Resolutions and Or Recommendations and preparing annual reports of the activities for SAC and GFCM meeting.

Reporting and documentation

Technical documents

CopeMed will continue preparing documents for the CopeMed and ArtFiMed Technical Documents series. Documents in preparation include: Small pelagic in the Alboran Sea; *Pagellus bogaraveo* in the Gibraltar Strait area, fishery and commercialisation, Buefin tuna in the Tangier region; Course on acoustics; Socio-economic indicators in Mediterranean fisheries, etc.

CopeMed Web site and visualisation

The project will continue reinforcing the visualization of the activities and results updating the web pages with news, documents, activities and information related with the project (<http://www.faoopemed.org>; <http://www.faoartfimed.org>)

Projects brochures and posters: Brochures and posters of CopeMed II in Spanish, French and English will be updated and distributed in international event.

Press notes and mentions in media: Information and Press notes on the project activities will continue to be sent to national and international media.

CopeMed II, 2011 Annual Workplan (May 2011 - Sep 2011)

CopeMed II 2011 Workplan	Q1 (J-M)		Q2 (A-Jn)			Q3 (J-S)			Q4 (O-D)		
Socio-economic and statistics											
Socio-economic indicator: finalize and publish the document				X	X	X					
Finalise actions on statistics (SSPAT) with Tunisian administration			X	X	X	X					
Coordination with MedFisis for new statistics software implementation			X		X	X					
Support Algerian CNRDPA in data collection methodologies					X	X	X				
Coordination with the GFCM for statistical improvement in the countries					X	X					
Shared resources											
Co-organization of the meeting on the shared stock <i>Coryphaena hippurus</i>	X					X					
Stock assessment meeting on <i>P. longirostris</i> Algeria, Morocco and Spain				X			X				
Co-organise with MedSudMed the assessment of <i>Merluccius merluccius</i> in the south-central Mediterranean region							X				
Support activities for the revision of the assessment of the shared stock <i>P. bogaraveo</i> between Morocco and Spain				X		X	X				
Subregional Demersal WG shared stocks in coordination with MedSudMed									X		
Small pelagic WG of the Alborán sea			X	X		X					
Annual Subregional small pelagic WG in coordination with MedSudMed									X		
Stocks assessment course in collaboration with the subregional projects										X	
CopeMed countries experts in EU-MEDIAS annual meeting			X								
Training activities											
On-the-job training in research vessels on standard acoustic methodologies											
On-the-job training in research vessels on standard demersal methodologies											
On-the-job training: trawl gear selectivity in Morocco and Algeria				X	X			X			
Surveys on 40 mm cod-end square mesh size in Morocco and Algeria					X			X			
Experts meeting to analyse the square 40 mm effects											X
Draft recommendations for the administration											X
Scientific investigation by using pelagic nets in Tunisia with MedSudMed							X				
Training on EAF in coordination with GEF_MedLME							X	X			
Support countries expert on training courses organised by CIHEAM			X				X				X
Regional cooperation											
Coordination meeting of the Mediterranean Regional Projects		X			X					X	
Participate in the Coordination Committee of MedSudMed					X						
Participate in the Coordination Committee of other projects			X								
Participate in the GFCM, SAC and subsidiary bodies		X			X			X		X	
Support Experts participation in SAC and GFCM		X									
Support activities at SAC-SCs meeting		X									X
Scientist from different countries present docs on shared stocks at SAC-SCs								X	X		
Co-organise closed seasons meeting in coordination with MedSudMed							X				
Meeting with fisheries sector to discuss on the EAF						X					
Participation in stakeholders' organisations meeting								X		X	
Reporting and documentation											
Documents for the CopeMed and ArtFiMed Technical Documents series	X	X	X	X	X	X	X	X	X		
Update Projects Web pages	X	X	X	X	X	X	X	X	X		
Distribute information to project network	X	X	X	X	X	X	X	X	X		

SUGGESTED ACTIONS BY THE COMMITTEE

The achievement of the activities should depend on the animation and attention of the National Focal Points. The project is proactive in promoting activities according the available budget. Nevertheless the countries have the final decision on participation and initiatives implementation. The Coordination Committee is invited to review the Workplan and to provide general guidance to the Project.

Groupes de travail sous- régional sur les stocks Demersaux partagés dans les régions CopeMed II et MedSudMed

Termes de Référence du Groupe de travail CopeMed II sur le stock partagé de la crevette rose du large (*Parapenaeus longirostris*) de l'Algérie, de l'Espagne et du Maroc (GSA 01, 02, 03 et 04)

Lieu : Malaga ? Date : mai-juin 2011¹

CONTEXTE

Les groupes de travail, organisés par CopeMed II, sur les stocks partagés en Méditerranée revêtent une importance majeure en matière de la réorientation des approches des évaluations des stocks et de la mise en œuvre de plans d'aménagement adéquats pour les pêcheries ciblant ces stocks partagés. De part sa production, sa grande valeur commerciale et sa distribution large englobant plusieurs pays méditerranéens, la crevette rose du large (*Parapenaeus longirostris*) est l'une des principales ressources partagées en Méditerranée, principalement entre l'Algérie, l'Espagne et le Maroc (GSA 01, 02, 03 et 04).

L'évaluation de l'état du stock de la crevette rose du large passe nécessairement par la réalisation d'une étude multidisciplinaire dont l'objectif est d'élaborer d'une part les connaissances de base sur cette espèce, les principaux traits relatifs à sa bio-écologie et la variabilité spatio-temporelle qui la caractérise, et d'autre part de générer les principaux indicateurs sur les tendances de l'état d'exploitation de cette ressource.

Dans le cadre de la réunion tenue a Mazzara del Vallo (Italie, Septembre 2010) du Groupes de travail sous-régional sur les stocks Demersaux partagés dans les régions de CopeMed II - MedSudMed a été décidé la création de cette groupe de travail au niveau de l'Algérie, de l'Espagne et du Maroc

Les connaissances bio-écologiques et les indicateurs d'exploitation du stock de la crevette rose du large dans les GSA 01, 02, 03 et 04 peuvent être déclinés en axes prioritaires ayant trait aux thématiques suivantes :

1. La caractérisation de l'exploitation de cette ressource ;
2. L'état des connaissances biologiques et écologiques sur ce stock au Maroc, en Espagne et en Algérie ;
3. Les résultats des évaluations antérieures de l'état d'exploitation de ce stock au niveau de ces pays.

I- CARACTÉRISATION DE L'EXPLOITATION DE LA CREVETTE ROSE DU LARGE DANS LES GSA 01, 02, 03 ET 04

I-1- Objectif

Le but est l'élaboration de matrices de données relatives à la production et à l'effort de pêche exercé sur la crevette rose du large, ce qui permettra de déterminer le schéma d'exploitation de cette ressource dans le temps et dans l'espace ainsi que l'analyse des stratégies et des tactiques de pêche. Deux principales actions seront traitées dans cette thématique à savoir ; les statistiques des pêches (production et effort de pêche) et les caractéristiques des navires de pêche.

I-2- Méthodologies

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La date et lieu de la réunion du groupe de travail relatif à l'évaluation conjointe du stock de *Parapenaeus longirostris* seront décidés par le Comité de Coordination de CopeMed à Madrid.

Pour aborder cette thématique, il importe d'une part de rassembler les données relatives à la production (tonnage) et à l'effort de pêche (en jours de pêche) exercé sur la crevette rose globalement et par point de débarquement et d'analyser les données sur les caractéristiques physiques des unités de pêche (Puissance, Tonnage de Jauge Brute JB, Age, Longueur).

Les données relatives aux enquêtes de terrain sur l'activité des unités de pêche à savoir : les zones fréquentées, les engins utilisés, les profondeurs de pêche et la durée des marées, permettent de générer des indicateurs et des informations supplémentaires sur l'exploitation de cette ressource. Une cartographie des zones de pêche sera alors possible moyennant le Système d'information Géographique (SIG).

Pour standardiser les efforts de pêche des navires de pêche ciblant la crevette rose du large au niveau de l'Algérie, de l'Espagne et du Maroc, la classification des bateaux de pêche adoptée par la CGPM sera considérée.

I-3- Résultats attendus

I-3-1- Caractéristiques des unités de pêche

- La détermination du nombre d'unités de pêche par type de flottille ciblant la crevette rose du large ;
- L'analyse des caractéristiques techniques des unités de pêche (Puissance, TJB, Age, Longueur ...);
- La classification sur la base de la segmentation CGPM (Rec. GFCM/33/2009/3)
- La durée des marées ;

I-3-2- Indicateurs de l'exploitation

- La détermination de l'effort de pêche exercé sur cette espèce (par pays et par port de pêche) ;
- La production en tonnes ;
- L'analyse des principales tendances sur l'état d'exploitation de cette ressource (tendance des captures et de l'effort de pêche) ;
- Les zones et les profondeurs de pêche ;
- L'étude de la distribution géographique de cette espèce ;

II- L'ÉTAT DES CONNAISSANCES BIO-ÉCOLOGIQUES SUR LE STOCK DE *PARAPENAEUS LONGIROSTRIS*

II-1- Objectif

Fournir une synthèse sur les informations existantes et disponibles sur la biologie et l'écologie de cette espèce au niveau de l'Espagne, de l'Algérie et du Maroc. Il permet d'élaborer les paramètres biologiques de *Parapenaeus longirostris* pouvant être incorporés dans les modèles des évaluations de l'état de son stock (croissance, relation taille-poids, maturité, mortalité...) ainsi que son régime alimentaire. Cette thématique est inclinée en deux principales actions ; le recueil des paramètres bioécologiques et l'identification des zones de ponte et de recrutement de cette ressource.

II-2- Méthodologies

Pour aborder cette action de recherche, il importe d'établir un état de lieu sur les données et les paramètres biologiques de la crevette rose du large à partir de l'échantillonnage biologique des captures de cette espèce, à partir des campagnes scientifiques en mer et à partir des enquêtes de terrain au niveau des ports de débarquement de cette espèce.

II-3- Résultats attendus

II-3-1- Paramètres biologiques

- La compilation des données disponibles sur les principales caractéristiques biologiques de cette espèce (maturité sexuelle, fécondité cycle biologique, régime alimentaire, croissance, régime alimentaire...);
- L'élaboration de matrices de données relatives aux structures démographiques de ce stock en Espagne, en Algérie et au Maroc ;
- L'étude de sa distribution spatio-temporelle ;
- La détermination des périodes et des zones de ponte et de recrutement de cette ressource.

II-3-2- Paramètres écologiques

- La distribution spatiale de cette espèce ;
- La cartographie des zones de ponte et de recrutement de cette ressource.

III- EVALUATION DE L'ETAT DU STOCK DE LA CREVETTE ROSE DU LARGE CONJOINTEMENT PAR L'ALGERIE, L'ESPAGNE ET LE MAROC

III-1- Objectif

Mettre à profit l'ensemble des données rassemblés en Algérie, en Espagne et au Maroc (Captures, effort de pêche, CPUE, indices d'abondance, composition démographique, paramètres biologiques) pour faire une évaluation conjointe de l'état du stock de la crevette rose du large.

Les actions entreprises sont le diagnostic de l'état d'exploitation du stock de la crevette rose du large et la préparation de recommandations conjointes pour l'Algérie, l'Espagne et le Maroc dans le but d'une gestion adéquate de ce stock.

III-2- Méthodologies

- La description des informations disponibles sur les pêcheries ciblant *P. longirostris* au niveau de la région ;
- La préparation d'un état de lieu sur les informations (publiées et non publiées) ainsi que les études réalisées sur *P. longirostris* au niveau de la région ;
- La description des tendances et de la qualité des données disponibles au niveau de l'Algérie, de l'Espagne et du Maroc ;
- L'identification de l'approche qui doit être utilisée pour une évaluation conjointe préliminaire de *P. longirostris* au niveau régional ;
- Initiation à l'évaluation conjointe du stock de *P. longirostris* en joignant les données disponibles au niveau des trois pays.

III-3- Résultats attendus

*III-3-1- Le diagnostic de l'état du stock de *P. longirostris**

Ce diagnostic peut être opéré sur la base de l'établissement des indicateurs suivants :

- La répartition spatiale de la ressource ;
- Les tendances des indices d'abondance ;
- Les structures démographiques ;
- La taille moyenne ;
- La production actuelle ;
- L'effort actuel ;
- La production optimale équilibrée (MSY) ;
- La mortalité naturelle et par pêche ;
- L'effort optimal ;
- Les points de références cibles ($B_{0,1}$, $F_{0,1}$, F_{max}).

III-3-2- La représentation spatiale des résultats obtenus par SIG

- La cartographie de la ressource (répartition spatio-temporelle des ressources, des nourriceries et des zones de ponte);
- La répartition spatio-temporelle de l'effort de pêche et les interactions avec les autres flottilles de pêche.

IV- RESPONSABILITES

A proposition du groupe de travail subrégional, la coordination de ces études et la collecte des données disponibles sur la crevette rose du large au niveau du Maroc et de l'Algérie seront assurées conjointement et respectivement par M. Saïd BENCHOUCHA, Biologiste et Chef du Laboratoire des Ressources Halieutiques au Centre Régional de l'INRH à Tanger, Maroc et Mme. Nawal AINOUCHE, Ingénieur Halieute, Alger, Algérie. Des chercheurs espagnols qui travaillent sur *P. longirostris* au niveau de la mer d'Alboran sont invitées à ce groupe de travail.

AGENDA PREVISIONNEL
GROUPE DE TRAVAIL RELATIF A L'EVALAUTION CONJOINTE DU STOCK DE
PARAPENAEUS LONGIROSTRIS ALGERIE, ESPAGNE ET MAROC* (GSA 01, 02, 03 ET
04)

1^{er} Jour

Objectifs du Groupe de Travail et adoption de l'agenda

Les objectifs du Groupe de Travail seront introduits aux participants et l'agenda sera discutée et adopté

Etat des connaissances actuelles sur le stock de *P. longirostris*

*Les connaissances et les informations sur la biologie, la distribution spatiale et l'abondance de *P. longirostris* au niveau de la région du projet COPEMED II seront analysées. Les pêcheries ciblant cette espèce et le système de collection des données au niveau de chaque pays seront décrits et débattus.*

Exploration des données disponibles

*Les données disponibles au niveau de chaque pays sur *P. longirostris* ainsi que les tendances et la qualité des données seront explorées. L'approche la plus adéquate pour mener une évaluation conjointe de ce stock sera identifiée et discutée.*

2^{ème} Jour

Exploration des données disponibles

Suite

Initiation à l'évaluation

*Un essai d'évaluation commune sera tenté dans le but de procurer une évaluation préliminaire du stock de *P. longirostris* au niveau régional.*

3^{ème} Jour

Evaluation conjointe

Finalisation de l'évaluation

Discussion des résultats

*Les résultats de l'évaluation conjointe du stock de *P. longirostris* seront présentés et discutés. Les futurs groupes de travail sur l'évaluation conjointe de ce stock et la présentation des résultats au niveau CGPM seront discutés.*

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La date et lieu de la réunion du groupe de travail relatif à l'évaluation conjointe du stock de *Parapenaeus longirostris* seront décidés par le Comité de Coordination de CopeMed à Madrid.

Draft of the Terms of reference

First meeting of the working group on small pelagic fisheries management in the Alboran Sea under the ecosystem approach to fisheries

Provisional Agenda

1. Opening of the meeting and organizational issues.
2. Election of chairperson, reporters and adoption of the Agenda.
3. Objectives of the meeting and background information
4. Overview of the available data on pelagic stocks including fishery data (by national experts) for progressing in the definition of shared stocks:
 - ✓ *Biological and ecological characteristics (e.g. age-length key, length-weight relationship, growth equation, maturity at age, size at first maturity).*
 - ✓ *Fisheries dynamics.*
 - ✓ *Movements across the regions: eggs, larvae, recruits and adults.*
 - ✓ *Fleets exploiting common grounds.*
 - ✓ *Fishery Statistics available, e.g. effort and catches*
 - ✓ *Biological sampling of commercial catches*
 - ✓ *Surveys, e.g. acoustic and DEPM*
5. Review of methodologies and agreement on appropriate periods of year to carry out the surveys using direct methods, according the target species of the region.
6. Migrations of sardines in the Alboran Sea.
7. Influence of the Atlantic current in the distribution of the different phases of the sardine and anchovy.
8. Standardization of protocols for biological sampling and statistics between countries
9. Research projects, experts, documents and results obtained
10. Preparation of a scientific network of experts and specialist on small pelagic species in the Alboran sea area.