



agriculture, nature  
and feed quality



Commission Sous Régionale des Pêches  
Sub Regional Fisheries Commission



## **PROJECT OF SUSTAINABLE FISHERIES FOR SMALL PELAGIC IN NORTHWEST AFRICA**

**MOROCCO AND THE SUB REGIONAL FISHERIES  
COMMISSION MEMBER STATES**

**KICK-OFF WORKSHOP**

**Dakar October 29-31, 2007**

**Workshop report**



## **1. INTRODUCTION**

The kickoff workshop of the project entitled "Towards regional policies for sustainable fisheries of small pelagic in Northwest Africa" was organized by the Sub Regional Fisheries Commission (SRFC) with the financial support of the Dutch cooperation (Ministry of Agriculture, Nature Conservation and Food Quality and the Ministry of Foreign Affairs). This workshop was held in Dakar, Senegal (Novotel Hotel) from 29 to 31 October 2007.

The workshop report is presented in this document. The agenda that was approved by the participants is available in Appendix 2. About 50 people, representing the following institutions, participated in the workshop and their names are available in Appendix 4:

- Morocco and the SRFC states (fisheries management departments and Research Institutes);
- The SRFC Permanent Secretariat staff;
- The European Union;
- The Dutch cooperation;
- The French Cooperation;
- The Dutch embassy in Dakar;
- FAO;
- Development institutes;
- Professions;
- NGOs;
- Project managers;
- Consultants ;
- Researchers;
- The sustainable fisheries network of journalist in West Africa.

The documents prepared for the workshop by the participants will be presented as supplemental elements to the report.

## **2. OPENING OF THE WORKSHOP**

Mr Mustapha Thiam, Deputy Director of Marine Fisheries of Senegal, welcomed all the participants and conveyed the wishes expressed Mr. Souleymane Ndéné Ndiaye State Minister in charge maritime economy of success for this workshop.

Mrs. Chantal Van Dam, the representative of the Dutch Ministry of Agriculture, Nature Conservation and quality (NVL) presented the Dutch cooperation objectives in her position of project donor.

She came back on the purpose of the International Biodiversity Policy Programme (BBI), initiated by the Dutch government whose aim is to contribute to the sustainable conservation and exploitation of marine resources.

The project is part of the BBI sub program which aims to promote policies and plans that permit a sustainable management of the small pelagic stocks of Northwest Africa.

Mr. Kane Ciré Amadou, the SRFC Permanent Secretary, introduced the topic of the meeting and went on outlining the project history. He also underlined the relevance of the project for Morocco and the SRFC states that share large stocks of small pelagic. He emphasized the interest to cooperate for the development of these resources and expressed his appreciation of the importance of the participation of Morocco with the SRFC states in this project in order to achieve the expected results.

Mr Hachim El Ayoubi, the project coordinator expressed his happiness to see the wide and representative workshop audience made of the various stakeholders involved in small pelagic fisheries' activities (managers, researchers, professionals, civil society stakeholders, RFMO... NGOs etc...).

In line with this idea, he invited all the stakeholders and institutions from attending countries to coordinate and strengthen their efforts in order to ensure greater efficiency in the area of shared small pelagic fisheries of the Northern and western Africa region.

He said that this good governance system requires cooperation tools and information exchange between neighbouring countries sharing the small pelagic fish stocks.

Mr El Ayoubi asked the participants to quickly introduce themselves before outlining the workshop objectives, its structure as well as the temporary agenda that was approved by the meeting.

Afterwards, he gave the floor to the moderator, Mr Mohamed Naji, FAO consultant, INFOSAMAK, who started by organizing the participants' interventions according to the approved agenda.

### **3. PROGRAMME OF THE WORKSHOP**

#### **3.1. The workshop program (see Appendix 3)**

The workshop program was conducted over a two days and a half period. Most of the topics that have been covered were followed by discussions. The most important problematic subjects were discussed and the northern and western Africa region countries' experiences were also presented by their representatives.

Afterwards the workshops sessions were centred on five components:

- Then, the workshop focused its work on five components:
- Resources and Environment;
- Experience in joint stock management and international agreements cases
- Marketing, valorisation, food security and technology transfer;
- Research Programs
- Management policies

On the basis of these components, the task group was split into two thematic committees that went for an in depth thinking on actions to be conducted in the framework of the project, in connection with the resources and the post-production in one hand and fisheries policies on the other hand.

Afterwards each thematic sub-group presented a report at the plenary session. The discussions continued and led to a series of recommendations that have been formulated and approved by the meeting.

### **3.1. Participants (Appendix 4)**

The workshop was intended to a group of stakeholders from the public, private and association sectors. The concerned countries are Morocco and the SRFC ones (Mauritania, Senegal, Gambia, Cape Verde, Guinea Bissau, Guinea and Sierra Leone). Most of the participants hold in their home countries positions of responsibility in the area of management, research, exploitation and valorisation of small pelagic fishes.

A total number of 50 participants from 10 countries attended the workshop sessions. The various workshop sessions were led by experienced specialists who are experts of the Northern and western Africa fisheries sector. These facilitators come from various sectors: members of national and international institutions and programmes, donors, officials from fisheries departments, technical advisers, university professors and researchers, representatives of professional groups, industry, etc...

## **4. RESULTS OF THE WORKSHOP SESSIONS**

### **4.1. Situation and description of small pelagic stocks in Morocco and in the SRFC countries:**

Generally, the launch workshop sessions consisted in: the following:

- Making a summary of the situation of small pelagic resources in upwelling waters zone of northern and western Africa. Emphasis was laid on the biology, evaluation and fluctuations in resources as well as on migratory phenomena;
- Presenting the techniques and systems for the exploitation, use and valorising of small pelagic catches prevailing in the region;
- Reviewing the systems used to manage small pelagic fish stocks in the SRFC countries and the consultations frameworks in force in the concerned countries;
- Discussing, on the basis of real examples, the role of markets including foreign demand for fisheries products a regards the dynamics of overexploitation of certain resources;
- Considering the case of some northern countries where joint management programmes of shared resources have been successfully implemented;

- Assessing and promoting greater sensitization of the SRFC member states with respect to the need and potential benefits of a joint management of shared stocks;
- Identifying priority issues and ways that can enable the project to achieve its objectives. For this, a refocusing of objectives and areas of intervention of the project was made at the workshop on policies.

The main conclusions of the launch workshop are presented according to the themes that emerged at the end of the sub workshops' sessions which focussed on one hand on resources and post catch activities, and on management policies of the small pelagic fishery, on the other hand such as:

- o The species and geographic areas concerned by the joint management policies;
- o Available data that can be mobilised;
- o The exchange of information and consultation between involved parties;
- o Policies and management measures of small pelagic fishes.

#### ***4.1.1 Species and geographic areas***

##### a) Resources

The northern and western region small pelagic fish stocks mainly include pilchards, sardines, mackerel, anchovies and mackerel. The small coastal pelagic fishes' food is mostly made of phyto-and zooplankton.

Therefore, she is very much dependent on primary and secondary production, which in turn is heavily dependent on the intensity of upwelling. However chincharts and mackerels are more carnivorous. These biological differences may explain some aspects regarding the abundance and distribution variation of these species.

Moreover, the SRFC region small pelagic fishes present different biogeographic similarities while remaining in largely overlapping distribution areas in the zone. The populations often live in big shoals characterized by a mixed specific composition. The clutch period takes place all the yearlong with usually two peaks periods. It takes place in several reproduction areas. The latitudinal migrations are important and are essentially a means to ease reproduction.

For transboundary stocks, the spatio-temporal migration scale for the different species is characterized by a very marked intra-and inter-annual natural variability.

The study of the small pelagic fishes' distribution areas reveals the distribution gets wider and wider (which is the case of sardines and round sardines). Recently it has been noticed that sardines tend to move southward and round sardines northward. In addition, we have noticed the dominance of clupéidés to the detriment of horse mackerels. This could lead us to asking the question whether such dominance would not result in the weakening of the small pelagic fish's ecosystems?

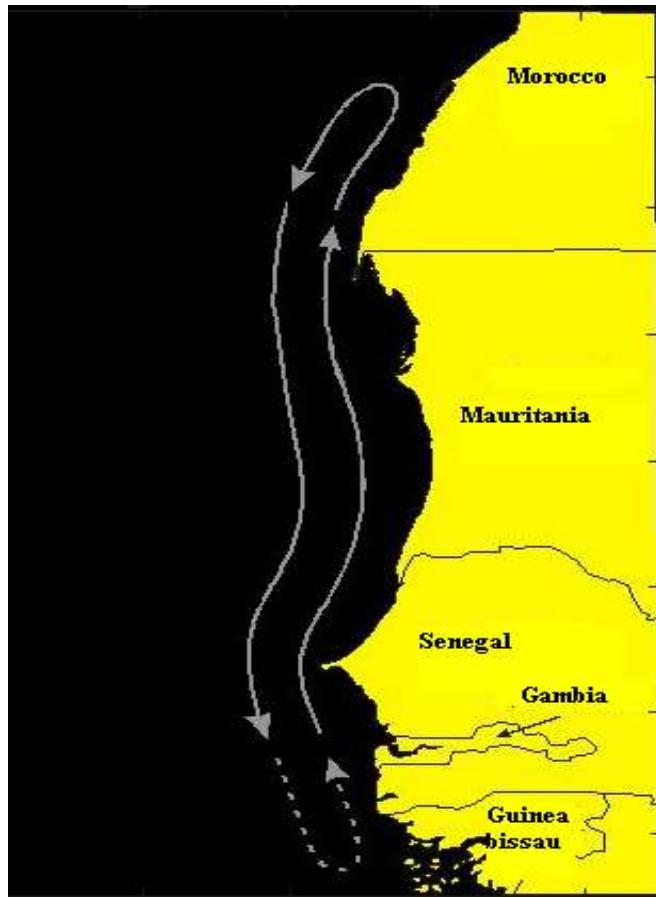


Figure 1: The sardinella distribution zone

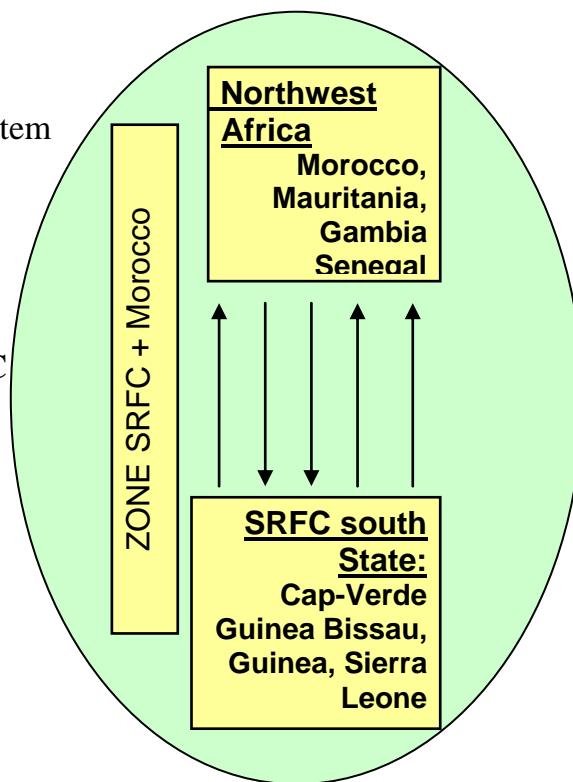
The small pelagic fish resources are overexploited despite their exceptional stock levels. Indeed, except sardines, particularly in southern Morocco, the most important share of these small pelagic fishes are fully exploited or overexploited. This finding was confirmed by the results of the FAO last task group work on the evaluation of small pelagic fish stocks held in Agadir in 2007. These results confirm that the most important share of the resources is fully exploited, such as the round sardinella. According to the same source, the excessive fishing effort, associated with weak upwelling, may be the cause of recent stock decreases.

Table 1: Extract of the FAO task group findings on West Africa small pelagic fishes (Agadir, April 2007)

<b>Stock</b>	<b>Last year 2006 catch in 000 t (2001–2006 average)</b>	<b>B/B<sub>0.1</sub></b>	<b>F<sub>cur</sub>/F<sub>0.1</sub></b>	<b>Assessment</b>	<b>Management recommendations</b>
<b>Sardine</b> <i>S Pilchardus</i> Zone A + B	389 (540)	19%	395%	Stock is overexploited	Decrease efforts by 20% corresponding to a catch level of 350 000 tonnes in 2008
<b>Sardine</b> <i>S Pilchardus</i> Zone C	299 (170)	112%	3%	Stock is not fully exploited	The total catch level may be temporarily increased, but should be adjusted to natural changes in the stocks
<b>Sardinellas</b> <i>S. aurita</i> and <i>S.maderensis</i> <i>Sardinella spp.</i> Whole sub region	300 (325) 150 (163) 450 (488)	44%	481%	Stock of Saurita overexploited No reliable results for <i>S.maderensis</i>	Decrease effort in total sardinella fishery by 50%. For 2008 catches should not exceed the level recommended last year 220 000 tonnes (2008)
<b>Horse mackerel</b> <i>T. trachurus</i> <i>T.tracea</i> Whole sub region	120 (90) 220 (180)	36% 129%	427% 121%	Stock of <i>T.trachurus</i> is over exploited Stock of <i>T.tracea</i> fully exploited	Because of the mixed horse mackerel fishery, decrease effort by 20%. For 2008, total catch of the two species should not exceed the level recommended last year i.e. 260 000 tonnes
<b>Mackerel</b> <i>Scomber japonicas</i> Whole sub region	202 (185)	-	-	Stock is not fully exploited	As precautionary measure, catch level should not exceed the current level (2006) i.e. 200 000 tonnes (2007).
<b>Anchovy</b> <i>Engraulis encravulus</i> Whole sub region	120 (134)	NA	NA	NA. acoustic estimates show a decrease in biomass from 2005 to 2006	As precautionary measure, catch level should not exceed the average over the three last year i.e. 115 000 tonnes
<b>Bonga</b> <i>Ethmalosa fimbriata</i> Whole sub region	35 (37)	NA	NA	NA but catch rates are stable since 2002	As no new information available on this species, the recommendation from 2006 is maintained i.e. catch level should not exceed 42 000 tonnes

By way of conclusion, small pelagic play a major role in the SRFC region coastal ecosystem mainly because of the role they play in the trophic chain of other species of commercial interest.

The small pelagic fishes' biomass is mainly concentrated in the northern part of the SRFC countries region (Mauritania and Senegal) and Morocco. The changes that take place in the long term, particularly at the level of the distribution areas of small pelagic sharpen the cross-border nature of these resources.



### b) Species of common interest

From a very general standpoint, four fish families drew the attention of the workshop participants and are worth being taken account of in future research that will be initiated by the Project. They are:

- Clupéidés : *Sardina pilchardus*, *Sardinella aurita* and *Sardinella maderensis*, *Ethmalosa fimbriata*.
- Carangidés : *Trachurus trachurus*, *Trachurus trecae* and *Caranx rhonchus*.
- Scombridés : *Scomber japonicus*.
- Engraulidés : *Engraulis encrasicolus*.

However, only two small pelagic fish species present a moreless marked shared trait: sardines and horse mackerels.

#### **4.1.2 Available and usable data**

The sub workshop on "Resources and post-catches" identified three groups of data that should be made available and usable for joint management of small pelagic fishes, particularly those which are under the position of shared resources: Bio ecological, socio economic, and socio anthropologic data.

Table 2: Type of data required for the joint management of the small pelagic fishes in the SRFC region.

<b>Bio-ecological data</b>	<ul style="list-style-type: none"> <li>• Abundance and abundance index (biomass)</li> <li>• catches/productions</li> <li>• nominal fishing effort and/or real</li> <li>• Demographic structures and biological parameters</li> <li>• evolution/spatio-temporal distribution</li> <li>• environmental parameters</li> <li>• measuring upwelling ...</li> </ul>
<b>Socio-economic data</b>	<ul style="list-style-type: none"> <li>• management channels</li> <li>• marketing channels and markets</li> <li>• employment and stakeholders' revenues</li> <li>• Food and food security</li> <li>• Valorisation modes...</li> </ul>
<b>Socio-anthropologic data</b>	<ul style="list-style-type: none"> <li>• ethno scientific knowledge (or empirical knowledge)</li> <li>• mode of local representation</li> </ul>

#### ***4.1.3 The exchange of information and dialogue between concerned parties***

The workshop was an opportunity to underline the marked imbalance as regards the supply of the various countries of the region in small pelagic fish resources data. To this uneven distribution can be added the low level of exchange of available information.

The speakers stressed the need for a more dynamic and enlarged regional collaboration that covers the whole distribution area of concerned species. Consequently it was found necessary to have relevant data on biological characteristics and fisheries statistics. It is also essential according to participants; to have a decision making body that sensitizes policy makers to implement the recommendations made by researchers. Some participants recommended to set up appropriate consultation bodies that include research, the administration, the industry professions, local fisheries committees etc...

The Fridjof / Nansen program was of great help for the evaluation of the small pelagic resources of the Region. However we regret that its intervention area is not extended to cover the southern part of Senegal. This SRFC area of coverage is the one that suffers the most from the lack of information about existing resources.

The coordination and information exchange need is not limited to resources, it covers also the negotiation on fishing agreements some countries undertake with third parties.

#### ***4.1.4 The policies and management measures for small pelagic***

Scientists estimate that their management recommendations are insufficiently taken into account, while managers criticize scientists to design very unrealistic measures or recommendations. In any case, it seems that a consensus is being found on the need to unite all efforts for the implementation of the management guidelines and recommendations that will be come out of this project.

The project approach should encourage the different countries of the region to adopt national planning policies which are in keeping with a regional policy. The policies must also be extended beyond the sectorial level. They must also be tackled and reconsidered on a wider scale, i.e. at the level of the overall country development policies. In this respect, taking into account the market and its role as a regulating factor of the fishing effort, as a measure for fisheries management is an invaluable contributor to the development of integrated planning policies.

The future trends in supply and demand for fish in the region show a progressively increasing deficit that would reach, according to some estimates, 3 million tons by the year 2015. Food security in the countries of the region should necessarily be taken into account by planning policies.

In addition, foreign fishing fleets operating in many countries of the region must be taken into account when planning and designing the policies.

### **4.2. Situation by country**

The representatives of the different countries that attended the workshop briefly outlined the state of the exploitation of pelagic resources in their countries as well as the management measures in place. In these presentations, overall it appears that and with the exception of Morocco, and to a lesser extent of Mauritania, countries in the region are experiencing overfishing of their small pelagic fisheries and lack effective management plans. Scattered management measures exist, but they have little effect because the control and monitoring are still at development stage.

#### **4.2.1 Sierra Leone**

The sustainable production potential for small pelagic fishes is estimated at about 100 thousand tons per year. Further research should be conducted at sub-regional level for a better assessment of available resources including their level of exploitation, especially since the target species are often migratory or shared. Some results seem to indicate that juvenile or immature clupéidés are very much exploited by artisanal fishing boats (30% of catches). Urgent measures must be undertaken in order to promote responsible fishing. Training courses are also needed in the area of small pelagic fish stocks assessment.

There are currently no processing and valorisation capacities available in the country for small pelagic species.

#### **4.2.2 Mauritania**

The management measures applied to small pelagic fisheries are traditional ones and concern:

- The monitoring of catches;
- The definition of authorized fishing engines;
- The use of regulatory meshing;
- The prohibition of access to certain fishing areas particularly those located beyond 13-15 miles for industrial fishing vessels, and in the two marine protected areas.

Mauritania implemented a series of measures and tools that contribute to ensuring sustainable exploitation:

- Development of management plans for priority fisheries (the yellow mule case);
- Building of databases that can be accessed by the various stakeholders;
- Development of a bioeconomic model for each fishery;
- Setting up of appropriate consultation frameworks. Example: The National Advisory Council for Planning and Development of Fisheries, which includes representatives of fishermen, processing units, research and the civil service.

#### **4. 2.3 Guinea**

The management measures in force and those associated with small pelagic fishes are:

- Prohibition to fish within the limits of the 6 miles band for motor boats whose power exceeds 25 CV;
- No restriction in fishing area for motor boats whose power is less than 25 CV;
- Authorized meshing is 25 mm for artisanal fishing boats and 70mm for industrial ones.

Overall, the artisanal fishing effort is so far not appropriately mastered, before envisaging the case of small pelagic fishes. That does not allow to think of having a reliable and specific management plan.

Since small pelagic fishes are considered as highly migratory species, regulating their catch levels in the Guinean waters would not prevent their exploitation in the neighbouring states coastal waters.

#### **4.2.4 Guinea Bissau**

The promotion strategy and the sustainable development of the fisheries sector are focused on the following components:

- The implementation of a conservation and responsible and balanced fishing policy for fishery resources;
- The strengthening of maritime surveillance;
- The increase of production through the development of artisanal fishing activities;
- The stimulation of and modernization of the private sector;
- The creation of infrastructure at country level in support of fishing operations;
- The conservation, processing and marketing of fishery products in the domestic market and exportation to regional and international markets;
- Building the capacity of managers and professionals;
- The Strengthening of internal and external competitiveness;

#### **4.2.5 Cape Verde**

The management measures in force in Cape Verde for small pelagic fishes depend on whether industrial or artisanal fisheries are concerned.

For industrial fisheries (rotating seines):

- Fisheries reserved for national vessels;
- Careful Expansion of fishing effort by controlling fishing licenses;
- The setting of a biological rest period of 2 months for mackerels;
- Setting of an 18 cm minimum mesh size.

For artisanal fisheries (meshed fishing nets):

- Careful expansion of fishing effort by controlling fishing licenses;
- Setting of the minimum mesh size at 18 cm for dobradas;
- Setting the minimum mesh size at 30 millimeters.

In Cape Verde, it was considered necessary to improve available data on the biology of pelagic species particularly through the improvement of sampling plans and the data collection strategy for catches, fishing effort and biological data in order to better assess the stock's situation. Socio-economic studies on small pelagic fisheries are also required.

#### **4.2.6 The Gambia**

The small pelagic fish species are exclusively exploited by artisanal fisheries. However, the management measures in force concern both artisanal fisheries and industrial fishing which differ because they use the following mechanisms:

For industrial fishing:

- Delimitation of regulatory meshing set at 40mm;
- Licensing system;
- Delimitation of fishing areas beyond 7 miles for units of more than 250 TGB;

For artisanal fishing:

- Free access system;
- Self regulation by fishermen exclusively for commercial purpose;
- Setting of regulatory mesh size;
- Fishing authorized within the 7 miles bands

The fisheries need in need participatory management plans that define, among other things, the access modalities to resources, and the conditions for the exercise of fishing activity.

#### **4.2.7 Morocco**

The fishing of small pelagic fishes has a strategic economic importance for Morocco, a country endowed with some experience in the exploitation and valorisation of these species.

The Moroccan small pelagic fishes' industry suffers from many constraints which can be summarized as follows:

- Overall the resources are fully exploited to overexploited;
- The coastal fishing fleet is not compliant with quality and safety standards;
- Fish catches are used, to a large extent, to manufacture fishmeal;
- The marketing of the products at local level is not developed.

Confronted with these constraints, an intervention of decision makers was put in place: It consists in developing the fishing of small pelagic fishes available in the southern part of the country (where there is unexploited great potential), and to deploy a monitoring and evaluation strategy of the fishery.

➤ The setting up of two coherent and harmonious plans aiming at:

- The development of the south Atlantic small pelagic fisheries.
- The planning of the northern and central Atlantic small pelagic fisheries;

- Implementation of a fishery monitoring and evaluation strategy whose aim is to:
  - Create of a fishery monitoring and evaluation commission including the Administration (department of fisheries), Research (INRH), the Office of National Fisheries Office and the professional of the sector,...
  - The setting up of a specific information system specific for pelagic fisheries;
  - The development of a control scheme of activities both inland and in the seas.

## 5. Recommendations

During the two workshops many recommendations were made to improve the content and implementation of the Project. Initial discussions have focused on the objectives of this project and its feasibility.

Nearly all the participants found that the original objectives of the project were too ambitious given the time and mobilized means. The project scope and objectives were re-focussed using the participatory approach.

The workshop concluded that the project programme of action should be oriented around four directions:

1. Diagnosis of policies and management measures for small pelagic fisheries;
2. Design of management guidelines at the level of the region;
3. Roughing of mechanisms and consultation structures to be put in place;
4. Exchange of information between concerned groups.

These interventions directions constitute also missions that will after their implementation by the organization of restitution and validation workshops.

Table 3: Sub workshop programme of action «fisheries policies»

Project orientations	Main actions	Workshops
<b>Diagnosis of policies and management measures for small pelagic fishes</b>	<ul style="list-style-type: none"> <li>• Analysis of the situation of small pelagic fisheries;</li> <li>• Description of small pelagic fisheries valorisation and marketing channels;</li> <li>• Evaluation of the impact of management measures applied for small pelagic fisheries and of the control and surveillance system;</li> <li>• Diagnosis of the mechanisms and the structures of dialogue</li> </ul>	<b>Validation workshop and experience exchange with other regions of the world in the area of regional management mechanisms</b>
<b>Design management orientations at regional level (Terms of reference)</b>	<ul style="list-style-type: none"> <li>• Capitalizing on the experiences of the other regions of the world;</li> <li>• Focus on the cases of shared species / planning units of common interest stocks (mule, sardinella, ethmalosis)</li> <li>• Formulate orientation proposals in the area of the management of shared species</li> </ul>	<b>Validation workshop</b>
<b>Drafting of mechanisms and consultation structures to be set up.</b>	<ul style="list-style-type: none"> <li>• Identify an official spokesman between research and decision makers</li> <li>• Energizing the structures/committees existing in the different countries;</li> <li>• Support the project steering committee</li> </ul>	<b>Proposals validation workshop</b>
<b>Exchange of information between concerned groups</b>	<ul style="list-style-type: none"> <li>• Appoint focal points at country level/stakeholders</li> <li>• Organise workshops</li> <li>• Project steering committee</li> </ul>	<b>Trainee workshop</b>

## APPENDIX 1: OTHERS RECOMMENDATIONS OF THE WORKSHOP

The participants proposed also other recommendations summarized below:

### 1. Diagnosis

- Make an inventory of the various countries in the management, information exchange... etc.;
- Develop a compendium of measures implemented at the country level depending on the types of shared resources;
- Raise the issue of shared resources and consider how to manage them;

### 2. Capitalization of experiences

- Project “Partage” (mullet, courbine and tassargal): draft on the setting up cooperative management of shared stocks between Mauritania and Senegal
- Take into account the work that has already been carried out in the region

### 3. Consultation and involvement of affected groups

- Identify operators affected by the small pelagic fishery and involve them in decision-making;
- Identification of actors (state, researchers, operators) for which this policy is intended;
- Consultation mechanism at the national level and co-management at the regional level;
- Produce a document that shows, by country, the state of vision and managerial skills / co-management processes;

### 4. Development of regional policy management of small pelagic

- Examine how to harmonize the management measures by geographic area; The harmonization can apply measures for the preservation of the resources of small pelagic;
- Develop plans to manage fisheries of small pelagic fish, which covers all countries in the sub-region;
- Interactions between pelagic and demersal fisheries in management— (regulation indirect) have been observed in some countries and must be taken into account;

### 5. Help in the implementation of regional policy

- Develop a tool available to the under regional commission that will harmonize policies of fisheries;
- Identify mechanisms so that the CSRP, in agreement with Morocco could exercise its role in fisheries policies;
- Support for dialogue and information sharing;
- Providing a framework for raising awareness and persuade the ministers of interest in putting in place a policy of harmonious pelagic fisheries management;
- Submit a sustainable structure that might be borne by the States concerned and make proposals to the Ministers of States;

## APPENDIX 2: PROGRAMME OF THE WORKSHOP

### TOWARDS REGIONAL POLICIES FOR SUSTAINABLE FISHERIES FOR SMALL PELAGICS IN NORTHWEST AFRICA

#### SITUATION AND PERSPECTIVES

**Kick-off workshop, Hotel Novotel**

**Dakar, October 29 – 31, 2007**

**Context:** The trans-boundary character and the natural variability that influence the small pelagic fish species necessitate a specific management approach and a wider regional cooperation to take the border-crossing aspects into consideration.

**Objective:** Kick-off workshop to present the state of the small pelagic fish species and to identify the necessary means to put a concerted and harmonized management process in place in the member states of the CSRP and Morocco.

#### AGENDA

##### MONDAY, October 29

08.30 – 09.15 hrs

##### Welcome and registration of the participants

Moderator of the work shop: *Mr Mohamed Naji, Consultant (FAO, Infosamak)*

09.15 – 09.45 hrs

##### Opening of the workshop

- i. Welcome address  
*Mr Mustapha Thiam, Deputy Director of Marine Fisheries of Senegal,*
- ii. Objectives of the project and of the International Policy Program on Biodiversity (BBI). Netherlands Development Cooperation  
*Mrs. C.J.F.M. van Dam, Netherlands Ministry of Agriculture, Nature Management and Food Quality*
- iii. Opening the sessions  
*Mr. Kane Ciré Amadou. Permanent secretary of the CSRP*
- ii. Objectives and structure of the workshop  
*Mr. Hachim El Ayoubi, Small Pelagic Project coordinator*

09.45 – 10.00 hrs Coffee Break

**10.00 - 11.30 hrs**

**SESSION 1. The small pelagic resources in the coastal waters of Northwest Africa**

10.00 – 10.20 hrs

- i. Description of the small pelagic (species, biology, migration, ecology and geographical distribution)  
*Mr. Mahfoud Ould Taleb Sidi, researcher; counselor of IMROP Director (Mauritania)*

10.20 – 10.40 hrs

- ii. State of the petites pelagic resources  
*Mr. Salah Benchrifi, Head of department of fisheries resources, INRH (Morocco)*

10.40 – 11.10 hrs

- iii Results of the working group on the assessment of small pelagic stocks in Northwest Africa (2007)  
*FAO, Rome*

11.15 – 11.30 hrs

- iv Case studies of shared stocks
  - a. Sardines  
*Mr. Salah Benchrifi, Head of department of fisheries resources, INRH (Morocco)*
  - b. Sardinella  
*Mr. Ad Corten, Consultant (Mauritania)*

Discussion

Synthesis and conclusions

12.30 – 14.30 hrs Lunch

**14.30 –16.15 hrs**

**SESSION 2. Analysis of the management systems and the national and international markets for the small pelagic**

- i. Management system
- ii. Production level  
*Mr Pierre Failler, consultant (UK)*
- iii. Utilisation of the catches  
*Professional : Mr Hassan Sentissi, Président de la FENIP (Maroc)*  
*Mr Dao Gaye, Président du CONIPACE (Sénégal)*

Discussion

Conclusions and recommendations

16.15 hrs – 16.30 hrs Coffee Break

**16.30 - 17.30 hrs**

**SESSION 3. The need for a regional cooperation for the management of shared stocks and the case of international agreements**

*Mr. Ad Corten, Consultant (Mauritania)*

- i Legal obligations and tasks of the States
- ii Collaboration and management agreements: the biological, economic and social implications
- iii Practical examples of the management of shared stocks: the North Atlantic herring

Discussion and conclusions

**TUESDAY, October 30**

**09.00 – 12.00 hrs**

**SESSION 4. Management systems and the framework for concerted actions in Morocco and the CSRP member states**

09.00 - 09.20 hrs

Report from Mauritania

09.20 – 09.40 hrs

Report from Sierra Leone

09.40 -10.00 hrs

Report from Senegal

10.00 – 10.20 hrs

Report Gambia

**10.20 - 10.35 hrs Coffee break**

10.35 - 10.55 hrs

Report from the Cape Verde

10.55 - 11.15 hrs

Report from Guinea- Bissau

11.15 – 11.35 hrs

Report from Guinea

11.35 – 11.55 hrs

Report from Morocco

Discussions

Conclusions and recommendations

**12.45 – 14.45 hrs Lunch break**

**SESSION 5. Work plan of the project**

14.45 – 15.10 hrs

Presentation of the phases of the project

*Mr. Hachim El Ayoubi, project coordinator*

15.10 - 17.30 hrs

- i Means to put the objectives of the project in place
- ii Proposals and recommendations of the countries
- iii Direction of envisioned actions

16.00 hrs Coffee Break

**16.15 – 17.30 hrs**

Discussions

Conclusions and recommendations

**WEDNESDAY, October 31, 2007**

09.00 – 10.30 hrs

Finalizing the work plan

10.30 hrs Coffee break

**10.45 – 12.30 hrs**

**General synthesis and closure of the workshop**

**12.30 hrs Lunch**

## **APPENDIX 3: TERMS OF REFERENCES**

### **Towards regional policies for sustainable fisheries for small pelagic in North-West Africa**

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#### **Kick-off workshop**

**From 29 to 31 October 2007 in Dakar**

#### **Terms of reference**

##### **1. Context**

The EEZ of the coastal states of Northwest Africa benefit from hydro-climatic conditions, especially the upwelling of cool nutritious waters, which are the basis for large fish stocks.

The exploitation of these stocks is an economic activity that for the countries in North-west Africa. The exploitation of these stocks contributes to employment, income, foreign exchange and food security for the countries in the region.

The largest part of the stocks consist of small pelagic species (mackerel, sardine, sardinella, anchovy and hors mackerel, bonga shad). These stocks represent about 80% of total production in Morocco and CSRP countries members.

However these small pelagic resources are exploited on national as well as on regional level. The stocks are not restricted to the territory of one country but they extend across the borders of neighbouring coastal states (shared stocks). Other stocks migrate along the coast: they may be present for part of the year in the water of one country and the rest of the year in the waters of a neighbouring country.

Their trans-boundary character plus their natural variability make a specific management and regional cooperation necessary that take the trans-boundary context into consideration.

To improve the management of these resources in their Northwest African regional context the Netherlands Government has supported research on the small pelagic stocks and has as part of its International Policy Program on Biodiversity put a project in place called “Towards regional policies for a sustainable fisheries for small pelagic in North-West Africa” that aims to contribute to the conservation and sustainable exploitation in CSRP States members and Morocco.

##### **2. Workshop topics**

As a first step in the implementation of a consultative management process it is necessary to share the available data and information concerning the stocks of small pelagic between the states in which these fish occur. Such information is collected and analysed in the annual meetings of the FAO Working group on the assessment of small pelagic fish of Northwest Africa, among others.

The topics of the kick-off workshop are:

- The situation of small pelagic in the North West African region: stock assessment, migration, biology, etc.
- The small pelagic fish production and markets
- Management systems in SRFC member states plus Morocco, and the available legal and institutional frameworks for consultation.
- Creating awareness among all partners about the need and potential benefit of improved management of shared stocks
- Identify priorities and means to allow the project to reach its goals

### **3. Expected results**

- Information about small pelagic fisheries in the region is discussed and shared
- Progress of different research programs is examined
  - Management strategies applied in the region are discussed
- Case studies of international arrangements about shared fish stocks applied outside the sub-region are presented
- Activities to be undertaken by the project are discussed

To obtain these results, we kindly ask the participants or organization to prepare a 10 minute presentation in this workshop (PowerPoint) and to provide a short, hard-copy report about the state of small pelagic fish stocks, their exploitation and the management systems applied in their country.

### **4. Participants**

1. Representatives of CSRP States members (administration and research)
2. Representatives of Morocco (administration and research)
3. Representatives of CSRP SP
4. Project coordinators based in CSRP SP (GTZ, AFD, FIBA, IUCN)
5. Representatives of Netherlands cooperation
6. FAO
7. Representatives of EU delegation
8. Donors (AFD)
9. IRD
10. NGOs (IUCN, WWF and ENDA)
11. Professionals (artisanal and industrial)
12. Consultants

## APPENDIX 4: LIST OF PARTICPANTS

### 1. ETATS MEMBRES DE LA CSRP/ SRFC MEMBER STATES

#### CAP-VERT/CAPE VERDE

**Mme Patricia Miranda ALFAMA**

Directrice Service de Qualité et Surveillance  
Direction Générale de la Pêche. BP: 206  
Praia – Cap Vert  
Tel: 238 2613758  
Fax: 238 2613758  
E-mail: [patricia.alfama@dgpescas.gov.cv](mailto:patricia.alfama@dgpescas.gov.cv)

**M. Monteiro Carlos ALBERTO**

Responsable Service de Statistique Pêche  
Institut National Développement Pêche INDP,  
POB 132 Mindelo  
Tel : 238 2321374 Cell : 238 99864825  
Fax : 238 2321616  
E-mail : [carlos.monteiro@indp.cv](mailto:carlos.monteiro@indp.cv)

#### GUINEE/GUINEA

**M.Koikoi SAKOU**

Directeur Général - Bureau de Stratégie et de  
développement des Pêches. Ministère de la Pêche  
BP: 3167 – Conakry Guinée. Tel : 224 30415230  
Cell : 224 60612277 / 224 64207100  
E-mail : [aposakou@yahoo.fr](mailto:aposakou@yahoo.fr)

**M. Amadou BAH**

Chercheur Chargé des Petits Pélagiques – CNSHB  
Corniche Sud BP : 3738 Conakry  
Tel : 224 60557514. Cell : 224 60557514  
E-mail : [amadoucosta2003@yahoo.fr](mailto:amadoucosta2003@yahoo.fr)

#### MAURITANIE/MAURITANIA

**M. Mohamed OULD ABIDINE OULD MAYIF**

Directeur de l’Aménagement des Ressources  
et de l’Océanographie. Ministère des Pêches  
B.P 137 Nouakchott  
Tél +222 529 13 39 - Cell : +222 643 03 35  
Fax +222 525 31 46  
E-mail : [mamayif@yahoo.fr](mailto:mamayif@yahoo.fr)

**M. Mahfoudh OULD TALEB O. SIDI**

Conseiller Scientifique Directeur IMROP  
BP : 22 Nouadhibou  
Cell : 222 6815055  
Fax +222 574 5081  
E-mail : [mahfoudht@yahoo.fr](mailto:mahfoudht@yahoo.fr)  
et [mahdoudht@imrop.mr](mailto:mahdoudht@imrop.mr)

#### GAMBIE/THE GAMBIA

**M. Asberr MENDY**

Principal Fisheries Officer (Research)  
Fisheries Department, 6 marina Parade - Banjul  
Tel : 220 4202355/ Cell : 220 9900792  
Fax : 220 4202355  
E-mail : [anmendy@yahoo.com](mailto:anmendy@yahoo.com)  
et [gamfish@gamtel.gm](mailto:gamfish@gamtel.gm)

**M. Nfamara Jerro DAMPHA**

Assistant Director of Fisheries  
6, Marina Parade - Banjul  
Tél : +220 4223373. Cell : +220 9924834  
E-mail : [jerro@qanet.gm](mailto:jerro@qanet.gm)  
et [gamfish@gamtel.gm](mailto:gamfish@gamtel.gm)

#### GUINEE-BISSAU/GUINEA-BISSAU

**Mme Rita Gomes Correia FUNNY**

Investigator – Ministère de la Pêche  
et Economie Maritime CIPA.  
Av Amilcar Cabral CP 102 Guinée Bissau.  
Cell : +245 7204966  
E-mail : [rigocofu@yahoo.com.br](mailto:rigocofu@yahoo.com.br)

**M. Inluta INCOM**

Chercheur CIPA, Av Amilcar cabral  
BP : 102 Guinée Bissau.  
Cell : 245 6711825  
E-mail: [i\\_incom66@yahoo.com.br](mailto:i_incom66@yahoo.com.br)

#### SIERRA LEONE

**Dr. Momodu Banda KAMARA**

Lecturer and research Institute of Marine  
Biology & Oceanography  
Fourah Bay College University of Sierra Leone  
6 upper faculty Mount Aureol  
Tel:+ 232 76728786  
E-mail: [kamaramomodu@yahoo.com](mailto:kamaramomodu@yahoo.com)

**Mme Kadijatu JALLOH**

Senior Fisheries Officier – Ministry of Fisheries  
and Marine Resources  
New Angland Freetown  
Tel: 232 76619276 Cell : 232 512525  
E-mail: [kadijatujalloh@hotmail.com](mailto:kadijatujalloh@hotmail.com)

## MAURITANIE/MAURITANIA

### **M. Abdel Aziz O. MALICK**

Socio-Economiste Chargé des Etudes - FNP  
Fédération Nationale de Pêche. BP : 43 Nouadhibou  
Tel : 222 5745089 / Cell : 222 6360992  
Fax : 222 5745430  
E-mail : [fnprim@yahoo.fr](mailto:fnprim@yahoo.fr) et [fnpndb@mauritel.mr](mailto:fnpndb@mauritel.mr)

## SENEGAL

### **M. Moustapha THIAM**

Adjoint Directrice des Pêches Maritimes  
Ministère de l'Economie Maritime,  
1, Rue Joris - B.P 289 - Dakar  
Tél +221 33 823 01 37 / Cell : +221 775537065  
Fax +221 33 821 47 58  
E-mail : [dopm@sentoosn.sn](mailto:dopm@sentoosn.sn) et [mutafathiam@yahoo.fr](mailto:mutafathiam@yahoo.fr)

### **Mme Khady DIOUF**

Stagiaire Chargée de Recherches  
CRODT Centre de Recherche  
Océanographique de Dakar Thiaroye  
BP : 2241 Dakar  
Tel : 221 338328265. Cell : 221 775522329  
Fax : 221 338328262  
E-mail : [khadiouf@yahoo.fr](mailto:khadiouf@yahoo.fr)

## 2. PARTENAIRES/PARTNERS

## MAROC/MOROCCO

### **Mme. Majida MAAROUF**

Chef de Service de l'Amenagement et de la Gestion  
des Ressources Halieutiques.  
Département des Pêches Maritimes.  
Haut Agdal, BP : 476 Rabat Maroc.  
Tel : +212 37688118 Cell : +212 405128  
Fax : +212 37688089  
E-mail : [maarouf@mpm.gov.ma](mailto:maarouf@mpm.gov.ma)  
et [majimar@hotmail.com](mailto:majimar@hotmail.com)

### **M. Salah BENCHERIFI**

Chef Département des Ressources Halieutiques  
Institut National de Recherche Halieutique, INRH  
2 rue Tiznit INRH, 20 000  
Casablanca Maroc  
Tel : 212 22220245  
Fax : 212 22268857  
E-mail : [bencherifis@yahoo.fr](mailto:bencherifis@yahoo.fr)

### **M. Hassan SENTISSI EL IDRISI**

Président FENIP  
7, rue El yarmouk longchamp Casablanca – Maroc  
Tel : 212 22365743 Fax : 21222366154  
Cell : 221 61134350  
E-mail : [fenip@fenip.com](mailto:fenip@fenip.com)  
et [sentissi.hassan@hotmail.com](mailto:sentissi.hassan@hotmail.com)

## SENEGAL (Suite)

### **M. ElHadj Dao GAYE**

Président National, Conseiller de la République  
CONIPAS Direction Régionale – ANCAR  
Villa 1357 Dakar.  
Tel : 221 338642605 et 221 339535033  
Cell : 221 77 5618395  
Fax : 221 33 8249363 / 339535033  
E-mail : [conipas@yahoo.fr](mailto:conipas@yahoo.fr) et [daogaye@yahoo.fr](mailto:daogaye@yahoo.fr)

### **M. Mamadou Diop THIOUNE**

Secrétaire National Chargé des Relations  
et de la Communication, Mandataire Social du  
Forum Permanent des Acteurs en Afrique de l'Ouest.  
CONIPAS, direction générale ANCAR  
Liberté 2 villa 1357 BP : 14355  
Tel : 221 338642605  
Cell : 221 775069694 Fax : 221 338233879  
E-mail : [conipas@yahoo.fr](mailto:conipas@yahoo.fr) et [fprapeche@yahoo.fr](mailto:fprapeche@yahoo.fr)

### **M. Mamadou Lamine SY**

Doctorant en Géographie Université Gaston  
Berger de Saint Louis. BP : 225  
Tel : 221 775785776  
E-mail : [mouhamad\\_sy@yahoo.fr](mailto:mouhamad_sy@yahoo.fr)

## COOPERATION HOLLANDAISE / DUTCH COOPERATION

### **M. Gerard SCHULTING**

Deuxième Secrétaire  
Ambassade du Royaume des Pays Bas  
37, rue Jacques Bugnicourt, ex- Kelber  
B.P: 3262. Dakar. Senegal  
Tel: +221 849 03 60  
Fax: + 221 821 70 84  
E-mail: [gerard.schulting@minbuza.nl](mailto:gerard.schulting@minbuza.nl)

### **Mme Van Dam CHANTAL**

Ministry of Agriculture, Nature and Food Quality  
6710 BL Ede P.O. Box 482  
Tel: +31 31318 822-836  
Fax: + 31318 822-550  
E-mail: [c.j.f.m.van.dam@minlnv.nl](mailto:c.j.f.m.van.dam@minlnv.nl)

### **M. Peter VAN DER HEIJDEN**

Staff member, Fisheries management & aquaculture  
Wageningen International  
Po Box 88 6700 ab. Wageningen Pays-Bas  
Tel: +31 317 495 495  
Fax : +31 317 495 395  
E-mail : [Peter.vanderheijden@wur.nl](mailto:Peter.vanderheijden@wur.nl)

## PARTENAIRES/PARTNERS (suite)

### COOPERATION FRANÇAISE/ FRENCH COOPERATION

#### M. Jean Michel BERGES

Conseiller Régional - SCAC/Ambassade de France  
BP : 2014 - Dakar (Sénégal) Tél. : +221 839 53 26  
Fax : + 221 839 53 99  
E-mail : [jean-michel.berges@diplomatie.gouv.fr](mailto:jean-michel.berges@diplomatie.gouv.fr)

### UNION EUROPEENNE/EUROPEAN UNION

#### Dr. Susana JUNQUERA

Chargée de Programme Pêche  
Délégation de la CE au Maroc,  
Riad Business Center, BP: 1302, Rabat  
Tel: 212 37579858 Fax: 212 37579810  
E-mail: [Susana.junquera@ec.europa.eu](mailto:Susana.junquera@ec.europa.eu)

### FAO

#### Mme Merete TANDSTAD

Fishery Resources Officer  
Fisheries Management and Conservation Service (FIMF).  
Fisheries and Aquaculture Department FAO.  
Viale delle Terme di Caracalla. 00152 Rome (Italy)  
Tel: + 39 0657052019  
Fax: +39 0657053020  
E-mail: [merete.tandstad@fao.org](mailto:merete.tandstad@fao.org)

#### M. Youssouf KABORE

Consultant National - FAO - Sénégal  
BP : 3300 Sénégal  
Tel : 221 338891666 . Cell : 77 5622557  
E-mail : [kabore@coraf.org](mailto:kabore@coraf.org) et [youka12003@yahoo.fr](mailto:youka12003@yahoo.fr)

### WWF

#### M. Ibrahima NIAMADIO

Chargé de Programme Pêche Durable  
BP : 22928 - Dakar (Sénégal)  
Tél. : +221 33869 37 00/01  
Cell : +221 775675316  
Fax : + 22133869 37 02.  
E-mail : [iniamadio@wwfsenegal.org](mailto:iniamadio@wwfsenegal.org)  
et [iniamadio@sntoo.sn](mailto:iniamadio@sntoo.sn)

### CAPE/ CFFA

#### M. Mamadou NIASSE dit LAMINE

Correspondant CAPE  
(Coalition pour des Accords de Pêches Equitables)  
Dakar BP : 28306 Medina  
Tel : 221 775361891  
E-mail : [m.lamine@orange.sn](mailto:m.lamine@orange.sn) et [cffa.cape@scarlet.be](mailto:cffa.cape@scarlet.be)

### SCAC (AMBASSADE DE FRANCE) / EMBASSY OF FRANCE IN SENEGAL

#### M. Lionel KINADJIAN

Conseiller Technique MEM - Ministère de  
l'Economie Maritime - Building Administratif  
4<sup>e</sup> étage - Pièce 414 B.P. 2014 Dakar  
Tel: 221 822 62 45 Fax: 221 822 62 45  
Cell: 221 77440 91 49  
E-mail : [lkinadjian@gmail.com](mailto:lkinadjian@gmail.com)

### ENDA DIAPOL

#### M. Papa Gora NDIAYE

Chargé des programmes ENDA / DIAPOL  
B.P 3370 Dakar. Sénégal  
Tél. : +221 33 823 53 47. Cell : +221 77 644 34 73  
Fax : +221 33 823 67 13.  
E-mail : [gndiaye@gmail.com](mailto:gndiaye@gmail.com)

### UICN / MAURITANIE

#### M. Matthieu BERNARDON

Conseiller Technique UICN,  
BP : 3197 Nouakchott Mauritanie.  
Tel : 222 5251276 Cell : 222 6342940  
Fax : 222 5251276  
E-mail : [matthieu.bernardon@iucn.org](mailto:matthieu.bernardon@iucn.org)

### ADEPA

#### M. Charles BAKUNDAKWITA

Secrétaire Exécutif - Association Ouest Africaine  
Pour le Développement de la Pêche ADEPA  
BP : 958 Dakar  
Tel : 221 338549813 Cell : 221 774597192  
E-mail : [cbakundakwita@yahoo.fr](mailto:cbakundakwita@yahoo.fr)

### REJOPRAO

#### M. Babacar SENE

Point focal Sénégal – REJOPRAO  
Réseau des journalistes pour une pêche  
responsable en Afrique de l'Ouest  
8608 /G Sacré Cœur 2 rond point de l'ancienne piste  
Cell : 221 775362018  
Fax : 221 338252799  
E-mail : [babasene@hotmail.com](mailto:babasene@hotmail.com)  
et [agropasteur@yahoo.fr](mailto:agropasteur@yahoo.fr)

**ISTAM (IMPROVE SCIENTIFIC  
AND TECHNICAL ADVICES FOR  
FISHERIES MANAGEMENT)**

**Mme Bora Masumbuko**

Chargée de mission ISTAM/IRD  
B.P : 1386 Dakar. Sénégal  
Tel. 221 33849 33 04  
E-mail : bora.masumbuko@ird.sn

**M. Jérôme GUITTON**

Responsable informatique  
Pôle halieutique Agro campus. Rennes.  
IRD Dakar. Sénégal  
E-mail : [jerome.guitton@agrocampus-rennes.fr](mailto:jerome.guitton@agrocampus-rennes.fr)

**CONSULTANTS**

**Dr. Pierre FAILLER**

Consultant Centre for Economics and Management  
of Aquatic Resources (CEMARE)  
University of Portsmouth Locksway Road  
Portsmouth. England  
Tel : +44 2392844085  
Fax: +44 2392 844037  
E-mail : [Pierre.failler@port.ac.uk](mailto:Pierre.failler@port.ac.uk)

**M. Ad CORTEN**

Consultant IMROP  
De Waterdief 52, Fi tritgest, Pays Bas  
E-mail : [adcorten@yahoo.co.uk](mailto:adcorten@yahoo.co.uk)

**Dr. Moctar BA**

Consultant  
Immeuble Air France 103 Avenue Peytavin  
BP : 14141 Dakar Sénégal  
Tel : +221 775360136  
E-mail : [moctar46@yahoo.fr](mailto:moctar46@yahoo.fr)

**M. Mohamed NAJI**

Enseignant – Chercheur. Institut agronomique  
et Vétérinaire Hassan II. Rabat  
Département Productions animales BP : 6202  
Cell : 212 61130174  
E-mail : [m.naji@iav.ac.ma](mailto:m.naji@iav.ac.ma)

**M. Aliou SALL**

Secrétaire Exécutif – Centre de recherche  
et de développement des Technologies Intermédiaires  
de Pêche CREDETIP. BP : 37251 Grand Yoff-Dakar  
Tel : 221 338219462 Cell : 221 775569183  
Fax : 221 338219463  
E-mail:[badousall2005@yahoo.fr](mailto:badousall2005@yahoo.fr)  
et [senaba2003@yahoo.fr](mailto:senaba2003@yahoo.fr)

**3. SECRETARIAT PERMANENT  
DE LA CSRP / PERMANENT  
SECRETARIAT OF THE SRFC**

**M. Ciré Amadou KANE**

Secrétaire Permanent  
Villa 4430 Amitié 3 – B.P. : 25485. Dakar (Sénégal)  
Tél. : +221 33 864 04 75. Cell : +221 77 637 26 83  
Fax : +221 33 864 04 77  
E-mail : [spcsrp@gmail.com](mailto:spcsrp@gmail.com)  
et [kcire2006@gmail.com](mailto:kcire2006@gmail.com)

**M. Oscar BALDE**

Chargé de Programmes  
Villa 4430 Amitié 3 B.P. : 25485 – Dakar (Sénégal)  
Tél. : +22133 864 04 75 Cell : +221 77 450 28 05  
Fax : +221 33 864 04 77  
E-mail : [oscarbalde@hotmail.com](mailto:oscarbalde@hotmail.com)

**M. Aboubacar SIDIBE**

Conseiller Scientifique  
Villa 4430 Amitié 3 B.P. : 25485 - Dakar (Sénégal)  
Tél. : +221 864 04 75 - Cell : +22177 232 56 61  
Fax : +221 33 864 04 77  
E-mail: [asidibeguinee@yahoo.fr](mailto:asidibeguinee@yahoo.fr)

**M. Bahi Ould BEYE**

Assistant en Information, Communication  
et Formation  
Villa 4430 Amitié 3 B.P. : 25485 - Dakar (Sénégal)  
Tél. : +221 33 864 04 75 - Cell : +221 77680 66 20  
Fax : +221 33864 04 77  
E-mail: [bahiouldbeye@yahoo.com](mailto:bahiouldbeye@yahoo.com)

**M. Mika Samba DIOP**

Coordinateur du Projet PSRA-requins  
Villa 4430 Amitié 3 B.P. : 25485 - Dakar (Sénégal)  
Tél. : +221 33 864 04 75 - Cell : +22177 644 82 18  
Fax : +221 33 864 04 77  
E-mail: [mika\\_df@yahoo.fr](mailto:mika_df@yahoo.fr)

**M. Philippe TOUS**

Conseiller Technique  
Villa 4430 Amitié 3 B.P. : 25485 - Dakar (Sénégal)  
Tél. : +221 33 864 04 75 - Cell : +221 77 507 62 15  
Fax : +221 33 864 04 77  
E-mail : [philippe.tous@gmail.com](mailto:philippe.tous@gmail.com)

**M. Jan Michael VAKILY**

Coordonnateur du Projet «Appui à la Gestion des  
Ressources Halieutiques en Afrique de l'Ouest »  
Villa 4430 Amitié 3 BP. : 25485 - Dakar  
Tél. : +221 33 864 04 75- Cell : +22177 639 11 52  
Fax : +221 33 864 04 77  
E-mail: [michael.vakily@googlemail.com](mailto:michael.vakily@googlemail.com)

## **SECRETARIAT PERMANENT DE LA CSRP / PERMANENT SECRETARIAT OF THE SRFC (Suite)**

### **M. Renaud BAILLEUX**

Coordonnateur du Projet « Négociation des Accords de pêche »  
Villa 4430 Amitié 3 BP. : 25485 - Dakar  
Tél. : +221 33 864 04 75 - Cell : +221 77 231 43 40  
Fax : + 221 864 04 77  
E- mail : [renaud.bailleux@iucn.org](mailto:renaud.bailleux@iucn.org)

### **M. Hachim EL AYOUBI**

Coordinateur du Projet « Pêche durable des petits pélagiques  
en Afrique Nord Ouest »  
CSRP / WAGENINGEN International  
Villa 4430 Amitié 3 BP. : 25485 - Dakar  
Tél.: 221 33 864 04 75 - Cell: 221 77 303 70 54  
Fax : 221 33 864 04 77  
E- mail : [hachim.elayoubi@voila.fr](mailto:hachim.elayoubi@voila.fr)

### **Mme Fatimata KANE**

Secrétaire  
Villa 4430 Amitié 3 - B.P. : 25485 - Dakar  
Tél. : +221 33 864 04 75  
Fax : +221 33 864 04 77  
E- mail: [spcsrp@gmail.com](mailto:spcsrp@gmail.com) et [kanefatimat@hotmail.com](mailto:kanefatimat@hotmail.com)