



## **DEEPFISHMAN**

Management And Monitoring Of Deep-sea Fisheries And Stocks

**Project number: 227390**

Small or medium scale focused research action  
Topic: FP7-KBBE-2008-1-4-02 (Deepsea fisheries management)

## **DELIVERABLE D1.2**

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## 1. OBJECTIVES

This deliverable defines the approach followed by the DEEPFISHMAN project towards dissemination results into target communities, and strategies for wide application of the project results in the European research community and stakeholders audience.

The project aims at producing:

- reviews of several aspects of deep-water fisheries. These includes reviews of assessment, management and monitoring approaches in a range of situations, in depth descriptions of all aspects of Case Study fisheries, stocks and ecosystem and a series of wider dedicated reviews designed to inform research carried out in the project;
- socio-economic overviews and analysis of performance and effectiveness of selected deepwater fisheries;
- developments of appropriate and if necessary new assessment methodologies;
- biodiversity analysis and ecosystem approach relevant to deepwater fisheries;
- integrate conservation, ecological and socio-economics priorities into a management and monitoring framework for deep-water fisheries in the NE Atlantic

These different types of products are defined in the description of the work, annex I of the project as a number of deliverables, they are listed above in an order reflecting the time schedule of their production by the project. The latter bullet point is indeed the overarching goal of the whole project, other bullet points will feed into it.

Deepfishman progress will be disseminated to the project's stakeholder community. Following the stakeholder analysis carried out during the first stakeholder meeting of the project (Brussels, 29-30 June 2009) the stakeholder community includes several categories from fisheries managers to individuals in the wide public (see deliverable D8.6, issued in July 2010). Different type of dissemination will be used to reach the stakeholder categories.

The scientific community will be reached mainly through journal articles and to a lesser extent other scientific publications such as PhD thesis and book chapters. Significant contributions to scientific conferences have already been carried out since the start of the project and the participation of Deepfishman scientists at conferences is expected to increase as the project develops.

Scientific foras and scientific organisations in charge of advice on the marine ecosystem and fisheries resources to governments and international regulatory bodies are reached through direct participation of Deepfishman scientists to expert groups and scientific networks.

In addition to receiving scientific advices where Deepfishman will contribute, national and international (e.g. RFMOs) management bodies will also receive direct contribution by Deepfishman scientists. In particular, some Deepfishman scientists contribute to the NAFO council, to SEAFO and to STECF and most have direct interaction with managers at national level

Stakeholders of immediate interest in deepwater fisheries are reached by direct workshops where they are invited to voice their views into the project. Two such workshops were already held in Brussels (29-30 June 2009) and Lisbon (4 December 2009). So far stakeholders from international management bodies (namely NEAFC), scientific advisory bodies (ICES), the European Commission, government and administration, NGOs and from the industry (catching sectors both high-seas fishing companies and artisanal fishers association) have attended these workshops. As the project develops, the plan for communication with immediate interest stakeholders have been developed (see Deliverable 8.2).

## **2. Target audience**

The audience of the project includes:

- Fishery managers: international RFMOs; EU council of Ministers, EU Commission, National (e.g. Ministers, Directorates for Fisheries) and local governments, Producers Organisations;
- Policy advisors
- Marine scientist in general and fishery research scientists
- Fishers: vessels owning companies, scale small vessel associations, individual skippers/crew
- Sector downstream of the fishery (e.g. fishmongers, retailers, big buyers)
- Activities upstream of the fishery (e.g. vessel and fishing gear builders)
- Environmental NGOs
- Wide public (consumers association, individuals)

## **3. Potential work with other projects and clustering**

There have been repeated contacts with CoralFISH project (Theme 6: Environment; Activity 6.2: Sustainable Management of Resources Grant agreement no.: 213144) at partners level and at coordinator levels.

At partners levels, Ifremer, the coordinator of Deepfishman is also partner of CoralFISH and some activities in the two projects are interacting, in particular works on the distribution of Cold Waters Corals are carried out jointly. Coordinators of both projects Anthony Grehan, NUIG, Ireland for CoralFish; P. Lorance) were heard by the French Ministry of Ecology, Energy, Sustainable Development and Sea in the context of the “Mission pêcheries profondes”. Cefas is partner in the FW7 Project TXOTX (Technical eXperts Overseeing Third country eXpertise) and Phil Large has attended project meetings and workshops.

## **4. International conferences and workshops**

### **4.1. Conferences and symposia**

From the start of DEEPFISHMAN of 01/04/2009, 10 scientists involved in the project have participated to 2 international conferences (Table 1).

Further plans for conferences include mainly participation to the XIIth Deepsea biology symposium scheduled in Reykjavik, Iceland on 7-11 June and participation to the next ICES Annual Science Conference scheduled in Nantes, France, 20-24 September 2010. As proposed in the Deepfishman DoW, a workshop of work package 3, socio-economic studies will be organised at the same time as the Deepsea Biology conference and a 1-day mid-term meeting of Deepfishman will be organised just before or after ICES ASC, so that in both cases, Deepfishman scientists will be able to participate in the project meeting and the conference during a single trip.

Additional options were considered during the all Case study meeting held in Lisbon (30-November- 5 December 2009). These include to ICES ASC depending upon relevant theme session. It is in particular envisaged to present Case study works and reviews. The project will also apply for a theme session at ICES ASC 2012 and this required submitting the session in 2010 through ICES WGDEEP.

#### **4.2. Working groups, experts groups, workshops**

Deepfishman scientist attended 6 workshops, working groups and expert groups since the start of the project (Table 2). These meetings were attended in the context of ICES (PGNEACS, WKPOOR), EC DG Mare, STECF, SEAFO and NAFO.

Significant input from Deepfishman is expected in expert groups in 2010 at ICES (the benchmark group WKDEEP and the expert group WGDEEP) and in NAFO and SEAFO. In the NAFO context, the following meeting will be attended: (i) NAFO Scientific Council WG EAFM( IEO, Vigo, Spain, 1-5 February 2010); (ii) NAFO Scientific Council scheduled on 3-17 June 2010 at Alderney Landing, Dartmouth, Nova Scotia, Canada, (ii) NAFO General Council. Scientific, the Annual Meeting will be held on 20-24 September 2010, Halifax, N.S., Canada.

#### **4.3. Meetings and other outreach at national level**

A few meetings and other events where dissemination of Deepfishman work and knowledge occurred during the first 8 months (Table 3).

#### **4.4. Gender aspects :**

Deepfishman scientists participating to conference, symposia and expert groups since the start of the project were 7 males and 5 females (Tables 1 and 2).

Table 1. List of conferences attended by Deepfishman scientists, since the start of the project (01/01/2009)

| Partner  | Name of participant | Sex | Event  | Date          | Location                              | URL or other references   |
|----------|---------------------|-----|--|---------------|---------------------------------------|---|
| Ifremer  | P. Lorance          | M   | ICES Symposium, Issues Confronting the Deep Oceans: The Economic, Scientific, and Governance Challenges and Opportunities of Working in the Deep Sea | 30/04/2009    | Horta, Faial Island, Azores, Portugal | <a href="http://www.turangra.com/congressos_en/seccao.php?id=9&amp;link=53">http://www.turangra.com/congressos_en/seccao.php?id=9&amp;link=53</a> |
|          |                     |     | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
|          | P. Marchal          | M   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
|          | V. Trenkel          | F   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
| Cefas    | P. A. Large         | M   | ICES Symposium, Issues Confronting the Deep Oceans: The Economic, Scientific, and Governance Challenges and Opportunities of Working in the Deep Sea | 30/04/2009    | Horta, Faial Island, Azores, Portugal | <a href="http://www.turangra.com/congressos_en/seccao.php?id=9&amp;link=53">http://www.turangra.com/congressos_en/seccao.php?id=9&amp;link=53</a> |
|          |                     |     | NAFO Scientific Council meeting  | 4-18/06/2009  | Dartmouth, Canada                     | <a href="http://www.nafo.int/publications/frames/science.html">http://www.nafo.int/publications/frames/science.html</a>                           |
|          | A. Kenny            | M   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
| MI       | L. Dransfeld        |     | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
| MRI      | B. planque          | M   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
| AZTI     | D. Garcia           | M   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
|          | M. Santurtun        | F   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |
| Imperial | P. Levotin          | F   | ICES Annual Science Conference   | 21-25/09/2009 | Berlin, Germany                       | <a href="http://www.ices.dk/indexfla.asp">http://www.ices.dk/indexfla.asp</a>   |

Table 2. List of expert and working groups attended by Deepfishman scientists, since the start of the project (01/01/2009)

| Partner | Name of participant | Sex | Expert group  | Date          | Location  | URL or other references   |
|---------|---------------------|-----|---|---------------|---|---|
|         |                     |     | North West Waters RAC, Working Group 1, West of Scotland & Western Approaches - ICES areas Vb (EC) VIa, VIb | 09/07/2009    | Comité National des Pêches Maritimes et des Elevages Marins (CNPMEM), Paris, France | <a href="http://www.nwwrac.org/Meetings/Meetings_EN/G/Navigation.php?id=355&amp;language=English">http://www.nwwrac.org/Meetings/Meetings_EN/G/Navigation.php?id=355&amp;language=English</a> |
| Ifremer | P. Lorance          | M   | ICES PGNEACS  | 09-11/06/2009 | Tromsø, Norway  | <a href="http://www.ices.dk/workinggroups/WorkingGroups.aspx">http://www.ices.dk/workinggroups/WorkingGroups.aspx</a>   |
|         |                     |     | ICES/JRC, Marine Strategy Framework Directive Task Group 6 (MSFD TG6)                                       | 25-26/06/2009 | Copenhagen, Denmark   | <a href="http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=388">http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=388</a>   |
|         | V. Trenkel          | F   | ICES/JRC, Marine Strategy Framework Directive Task Group 6 (MSFD TG6)                                       | 26-28/10/2009 | Hiraklion, Greece   | <a href="http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=388">http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=388</a>   |
|         |                     |     | ICES/JRC, Marine Strategy Framework Directive Task Group 4 (MSFD TG4)                                       | 15-16/06/2009 | Copenhagen, Denmark   |   |
|         |                     |     | ICES/JRC, Marine Strategy Framework Directive Task Group 4 (MSFD TG4)                                       | 28-30/10/2009 | Copenhagen, Denmark   |   |
| Cefas   | P. A. Large         | M   | EC Workshop on deep-sea fishing   | 31/08/2009    | DG Mare, EC, Brussels   | <a href="#">Council of the EU DG BIII Fisheries North</a>   |
|         |                     |     | STECF SGMOS 09 03 Evaluation of management measures to be assessed in 2009                                  | 13-17/07/2009 | Copenhagen, Denmark   | <a href="http://stecf.jrc.ec.europa.eu/home">http://stecf.jrc.ec.europa.eu/home</a>   |
|         |                     |     | SEAFO VME Workshop<br>SEAFO Scientific Sub-Committee  | 21/09/2009    | Swakopmund, Namibia   |   |
|         |                     |     | SEAFO Scientific Committee<br>Annual SEAFO Commission meeting   | 08/10/2009    |   |   |
|         |                     |     | NAFO Scientific Council meeting   | 4-18/06/2009  | Dartmouth, Canada   |   |
| MI      | L. Dransfeld        | F   | STECF SGMOS 09 03 Evaluation of management measures to be assessed in 2009                                  | 13-17/07/2009 | Copenhagen, Denmark   | <a href="http://stecf.jrc.ec.europa.eu/home">http://stecf.jrc.ec.europa.eu/home</a>   |
|         |                     |     | ICES PGNEACS  | 09-11/06/2009 | Tromsø, Norway  | <a href="http://www.ices.dk/workinggroups/WorkingGroups.aspx">http://www.ices.dk/workinggroups/WorkingGroups.aspx</a>   |
| IMR     | B. Planque          | M   | ICES PGNEACS  | 09-11/06/2009 | Tromsø, Norway  | <a href="http://www.ices.dk/workinggroups/WorkingGroups.aspx">http://www.ices.dk/workinggroups/WorkingGroups.aspx</a>   |
| AZTI    | E. Abdobegi         | F   | Workshop on analytical methods for evaluation of extinction risk of stocks in poor condition (WKPOOR1)      | 18-20/05/2009 | ICES Headquarters, Copenhagen, Denmark  |   |

Table 2. List of expert and working groups attended by Deepfishman scientists (continued)

| Partner | Name of participant | Sex | Expert group   | Date          | Location          | URL or other references   |
|---------|---------------------|-----|--|---------------|-------------------|---|
| IEO     |                     |     | NAFO Scientific Council meeting                                      | 4-18/06/2009  | Dartmouth, Canada | <a href="http://www.nafo.int/publications/frames/science.html">http://www.nafo.int/publications/frames/science.html</a>             |
|         |                     |     | 2+3KLMNO Greenland Halibut – Cooperative Industry/Government Project | 10-12/04/2009 | Vigo (Spain)      |   |
| IEO     | F. Gonzalez-Costas  | M   | Halibut Assessment   | 1-3/06/2009   | Dartmouth, Canada | <a href="http://www.nafo.int/publications/frames/science.html">http://www.nafo.int/publications/frames/science.html</a> (SCS 09/25) |
|         |                     |     | NAFO Scientific Council meeting                                      | 4-18/06/2009  | Dartmouth, Canada | <a href="http://www.nafo.int/publications/frames/science.html">http://www.nafo.int/publications/frames/science.html</a> (SCS 09/24) |

Table 3. List of events with participation of Deepfishman scientists at national level, since the start of the project (01/01/2009)

| Partner | Name of participant      | Sex | Name of the event  | Date       | Location     | URL or other refer                         |
|---------|--------------------------|-----|--|------------|--------------|--|
| Ifremer | P. Lorance               | M   | Hearing at deep-water fisheries mission, Ministère de l'Ecologie de l'Energie du Développement Durable et de la Mer (MEEDDM) | 10/21/2009 | Paris        | Ministry of Ecology, Energy, Sustainable   |
|         |                          |     | Press Conference, BoBgeo cruise in relation to CoralFISH and DEEPFISHMAN   | 19/11/2009 | Paris        | <a href="#">Institut Océanographique</a>   |
| IEO     | Fernando Gonzalez-Costas | M   | Information Meeting with SGM and Fishing Industry about the NAFO Scientific Council Results                                  | 30/07/2009 | Vigo (Spain) | <a href="#">Secretaría General del MAR</a> |



## **5. Other dissemination channels**

### **5.1. Public Website**

The project holds a public website (<http://www.ifremer.fr>) and a wiki (<http://deepfishman.hafro.is/doku.php>). Both sites include a public and a partner section (see deliverable D8.1).

### **5.2. Publications in progress**

Publication activities have already started in the project and an initial list of scientific papers is given below. Nevertheless, due to the early stage of the project this does not reflect what the project will produce.

#### **Scientific papers**

Pawlowski, L., Lorance, P. (2009). Effect of discards on roundnose grenadier stock assessment in the Northeast Atlantic. *Aquatic Living Resources* 22.

Lorance, P. (Submitted). History and dynamics of the overexploitation of the red (=blackspot) seabream, *Pagellus bogaraveo* in the Bay of Biscay. *ICES Journal of Marine Science*.

Lorance, P., Pawlowski, L., Trenkel, V. M. (submitted). Deriving blue ling abundance indices from industry haul by haul data. *ICES J Mar Sci*.

#### **Communications in conferences**

Lorance, P., Pawlowski, L., Trenkel, V. M. (2009). Deriving blue ling abundance indices from industry haul by haul data. *ICES Annual Science Conference, Berlin, 21-25 September 2009*.

#### **Posters**

Lorance, P., Arnason, R., Cloete, R., Diez, G., Dransfeld, L., Failler, P., Figueiredo, I., Gil, J., González-Costas, F., Hillary, R., Jacobdóttir, K., Large, P. A., Planque, B., Politou, C.-Y. (2009). DEEPFISHMAN: management and monitoring of deep-sea fisheries and stocks, *ICES CM 2009/N:22*.