

DEEPFISHMAN

Management And Monitoring Of Deep-sea Fisheries And Stocks

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Small or medium scale focused research action

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1. INTRODUCTION

1.1 Purpose of this document

The purpose of this document is to deliver a periodic report on dissemination activities after first 18 months of the project and to outline evolving dissemination strategies and plans for the latter half of the project. This activity falls under WP8 (Dissemination and outreach) and is one of the horizontal activities (Fig.1.1) subdivided into four tasks: T8.1 Establishment and maintenance of public web site (led by Ifremer), T8.2 Publications (all partners), T8.3 Conferences, workshops and stakeholder fora (all partners) and T8.3 Policy delivery approaches (led by MRI)

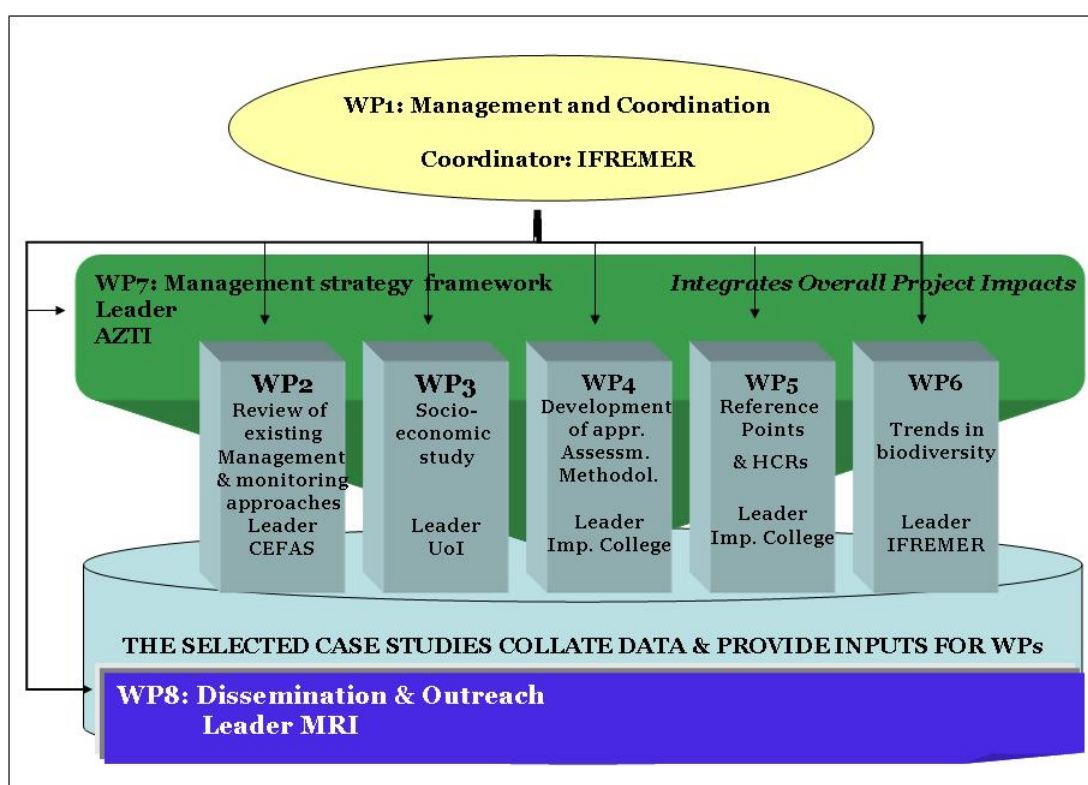


Figure 1. Project organisation of DEEPFISHMAN.

1.2 Project overview

The project DEEPFISHMAN consists of thirteen partners from nine countries of which one is an ICPC country. The interdisciplinary nature of this project is revealed through research objectives covering fishery science and management, ecology and socio-economy studies. The overall objectives of DEEPFISHMAN are mainly twofold: Firstly to identify and develop new and more effective monitoring and assessment methods, reference points (biological, ecological, biodiversity and socio-economical) and control rules. Secondly to develop a long-term monitoring and management framework in which additional data needs will be specified in order to fill current information gaps to achieve reliable long-term management requirements.

The general approach is developed by examining a range of case studies selected to reflect the diverse characteristics of the different types of deep-water fishery, mainly in the NE Atlantic

2. EXECUTIVE SUMMARY

An active communication with stakeholders is essential for success of the DEEPFISHMAN project, since stakeholders offer a source of unique information to undertake proposed approaches and their view on the management framework developed in the project is essential to the success of the implementation of future management. Therefore, during the first 18 months of the project a considerable effort has been put into establishing a close collaboration to stakeholders of the Deep water fisheries. Several extra activities have been executed that will add to the output of the project while not strictly being deliverables. Further, promotion and introduction of the project to the scientific community has been well established. These activities along with deliverables are described in this report. The main task of dissemination activities for the latter half of the project life will be to promote and encourage the uptake and use of results by policy makers, stakeholders and fishery managers in Europe for a maximum impact of the project results as well as maintaining stable communication platform to stakeholders and other in the wider audience.

3. DISSEMINATION STRATEGY

The dissemination strategy was an inherent part of our research project which aimed at making information about the work and outcomes of the project DEEPFISHMAN available to a wider audience with the aim of enhancing the uptake of its results. This involved establishing an interactive communication platform to stakeholders since it is acknowledged by the project that input of stakeholders will be essential for the success of the project. An active participation of stakeholders in the beginning of the project was essential to be able to implement their input in later stages of the project. The second main strategy is to promote and encourage the uptake and use of results by policy makers, stakeholders, and fishery managers in Europe, and prepare the basis for maximum impacts of the results. For this communication and establishing a connection and formal links to policy makers will be emphasized.

3.1. Target groups

The dissemination strategy plan had mainly the following target groups:

- Policy makers and Fishery managers involved in the deep-sea fishery management and planning (e.g. international RFMOs; EU council of Ministers, EU commission, National (e.g. Ministers, Directorates for fisheries) and local governments)
- Fishers (e.g. vessels owning companies, fisher associations, individual skippers and crew).
- Other stakeholders in the fishery (e.g. fishmongers, retailers, big buyers, vessel and fishing gear builders).
- Scientific community (e.g. marine scientists in general and fishery research scientists, scientific organisation such as ICES, NAFO, SEAFO).
- NGOs, consumers and broader public audience

These target groups are public or private and operate at different levels (international, national and local).

3.2. Dissemination channels

The following channels for dissemination to our target audiences and for internal dissemination were used:

- Web site of the project
- WIKI site of the project
- Email correspondence
- Leaflet
- Newsletter
- Posters
- Presentations

4. DISSEMINATION REPORT (M18)

The dissemination activities can be divided in two main groups:

Central activities: Covering international and local activities

Internal activities: Covering dissemination and communication among partners

4.1. Central activities

4.1.1. Dissemination activities toward broader audience and stakeholders

4.1.1.1 Establishment of public web site and logo design

The DEEPFSIHMAN website was launched and logo designed by IFREMER (Partner 1) in M1 (April 2009), 7 months earlier than planned by DoW (Fig. 3.1.1, address: <http://www.ifremer.fr/deepfishman>). The public section includes general information on the project and Case studies, the DoW and other information relevant to the project.



Figure 2. Frontpage of the DEEPFISHMAN web site featuring project's logo.

3.1.1.2. Establishment and maintenance of public and partners WIKI site

At the project's kickoff meeting in May 2009 it was decided to develop a website powered by wiki software because it allows for easy interaction and exchange of working documents. The aim was to develop an active and easy web communication tool mainly for stakeholders and partners but also for the public view. The project's WIKI site was launched by MRI (partner 12) in August 2009 (Fig. 3.1.2., address: <http://deepfishman.hafro.is/doku.php>). Translations of introduction were provided by Ifremer (French, partner 1), IPIMAR (Portuguese, partner 8), HCMR (Greek, partner 10), IEO (Spanish, partner 11) and MRI (Icelandic, partner 12). Picture material was provided by IEO (partner 11), IPIMAR (partner 8), IMR (partner 4) and Ifremer (partner 1).

The usage of the site has been mainly twofold (Table 1) Firstly, stakeholders have been directed to the site as a communication and collaboration interface and the site has been the gateway for the web based surveys directed toward stakeholders (see section 3.1.2.). Secondly, a section of the WIKI site remains closed to the public view and is used actively by partners as working platform (exchange of working documents, final documents etc. see section 3.2.3).

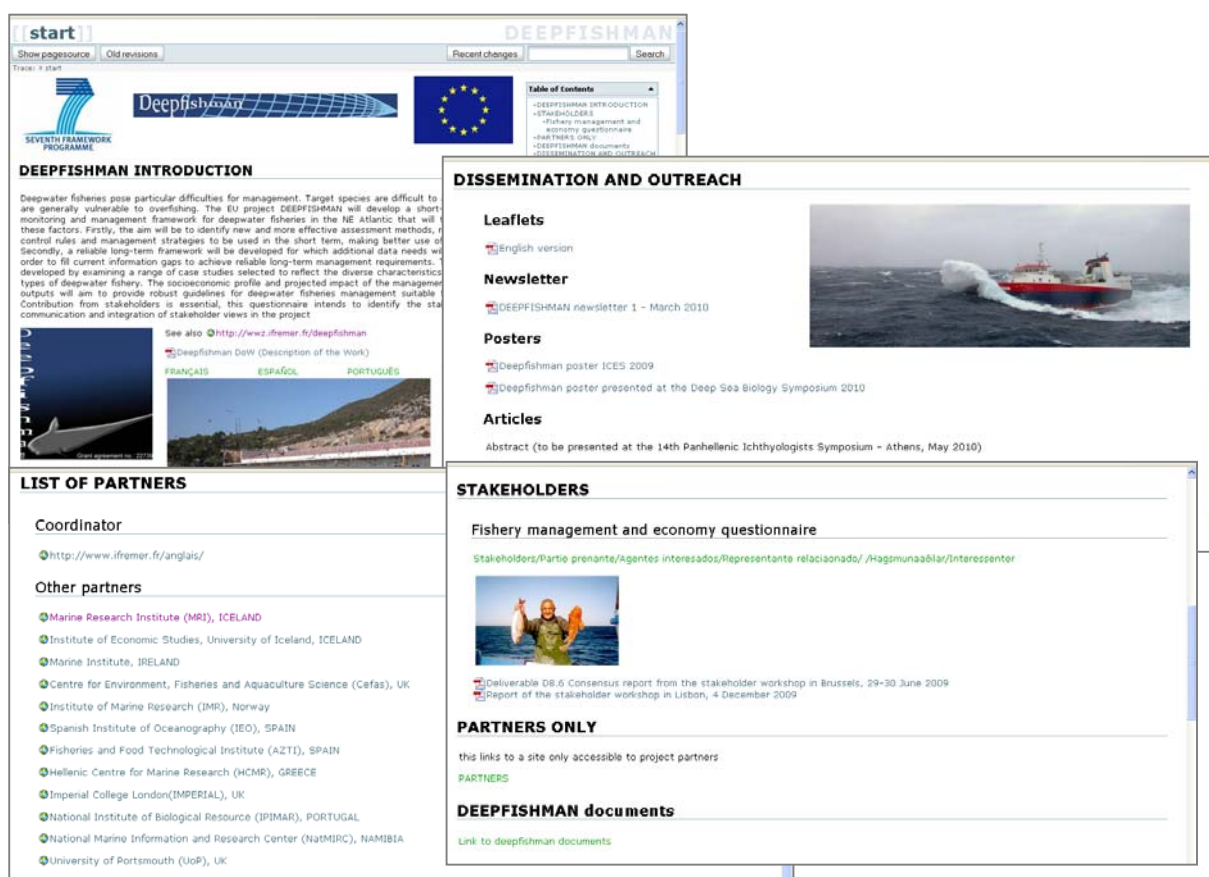


Figure 3. Several Screenshots from DEEPFISHMAN WIKI front page.

Table 1 Organisation of the project's public WIKI site.

| DEEPFISHMAN WIKI Outlines | Description |
|----------------------------|--|
| DEEPFISHMAN INTRODUCTION | Short description of the project offered in seven languages. Link to the DoW of the project is provided |
| STAKEHOLDERS | Information especially relevant for stakeholders. Gateway to questionnaires. Link to ongoing questionnaire in five languages |
| PARTNERS ONLY | Gateway to partners' "virtual workshop" closed to the public view. Partners exchange working documents and upload finished documents here. |
| DEEPFISHMAN DOCUMENTS | Documents finalized by the project. Part of these documents are still closed to the public view but finalized documents are open access |
| DISSEMINATION AND OUTREACH | Links provided to all Dissemination and outreach material about the project such as project's leaflet, newsletters, posters and also documents relevant to the work of the project |
| LIST OF PARTNERS | List of the collaborating institutions provided |
| DEEPFISHMAN ORGANIZATION | Diagram provided describing the organization of the project |
| USEFUL EXTERNAL LINKS | Links to relevant projects, conferences, symposia provided. Also links to fun/popular science related blogs /sites about deep sea |

3.1.1.3. Leaflet

Leaflet with general project information was printed in M4 of the project. A pdf file was made available to all partners for distribution and is easily accessible at the wiki site (http://deepfishman.hafro.is/lib/exe/fetch.php?media=deepfishman_finaljune09.pdf and see also Appendix A)

Distribution of the leaflet has mainly been as follows:

- Attachment in email-invitation of stakeholders to workshops (see section 3.1.2.)
- Stakeholders' workshop, Brussels, June 2009
- Conference on Efficient Fisheries Management, Reykjavik, August 2009
- Stakeholders' workshop, Lisbon, December 2009
- ICES, ASC, Berlin, September 2009
- Deep Sea Biology Symposium, Reykjavík, June, 2010-09-27

3.1.1.4. Newsletter

Newsletter serves as an essential communication tool to all that share an interest in the project. Issue 1 of the DEEPFISHMAN newsletter was published in March 2010 and is available for download at the project's WIKI site (see also Appendix B): http://deepfishman.hafro.is/lib/exe/fetch.php?media=newletter1_march2010.pdf. The newsletter has also been distributed directly to the stakeholder community and project partners by email announcements.

3.1.2. Interaction with stakeholders

During the first 18 months of the project a considerable effort has been put into establishing a close collaboration to stakeholders of the Deep-water fisheries. The first stakeholder workshop was held in Brussels on 29 and 30 June 2009 by invitation. Partner 1 (Ifremer) and workshop facilitator (subcontracted) wrote formal invitation and sent to relevant important stakeholder at the international level. Each partner translated the formal invitation into native language if needed and was responsible for forwarding the invitation to relevant local stakeholders (English invitation in Appendix C). The report of this workshop was delivered as

Deliverable 8.6 (published July 31st, 2009) and is available for download at the project's WIKI site:

http://deepfishman.hafro.is/lib/exe/fetch.php?media=deepfishman_227390_deliverable_d8.6.pdf.

Following this first stakeholder meeting it was decided to try to contact a larger audience of stakeholders. Two actions were developed: A web-based survey was organized and another stakeholder meeting was scheduled together with the Case study workshop held in month 9 of the project (December 2009).

The web-based survey, mostly designed by partner 1 (Ifremer) and partner 2 (Cefas) was launched in October-November 2009. The primary aim of this web survey was to identify the stakeholder community and their preference of collaboration and communication. Stakeholder were informed via email and directed to the WIKI site as a gateway to the web based survey (SurveyMonkeyTM) were introduction and the survey was offered in seven different languages; English, French, Spanish, Greek, Portuguese, Norwegian and Icelandic. The translation work was performed by following partners: Ifremer (Partner 1), IEO (Partner 11), IPIMAR (Partner 8), HCMR (Partner 10) and MRI (Partner 12). A document with questions and responses is provided in the Appendix (Appendix D).

A second stakeholder workshop was held in Lisbon on December 4th 2009. Report of the second workshop was delivered as an extra Deliverable on December 14th since the second workshop was initially not scheduled in the project. The report is also available for download at the project's WIKI site:

http://deepfishman.hafro.is/lib/exe/fetch.php?media=stakeholder_workshop_04_12_09.pdf. A session of the workshop was dedicated to draw cognitive maps with the range of stakeholders participating at the workshop. This has been analyzed and will be presented to the stakeholders and the scientific community. A second web-based survey was launched in February 2010 (Questionnaire in Appendix E). This questionnaire, mostly work of partner 3 (UoI) and partner 10 (HCMR), was designed to collect socio- economic information of the deep water fishery. Primary aims were to solicit stakeholder views on the existing management and monitoring, concerns and aspirations for the future and information for development of new short- and long-term management framework. The questionnaire is offered in five languages and is still open for participation. Replies have been mainly collected from 4 case studies (CS): mixed demersal trawl fishery (CS2), fishery for red (blackspot) fishery in the strait of Gibraltar (CS3a), fishery for red (blackspot) seabream in the eastern Mediterranean sea (CS3b), fishery for black scabbardfish in ICES sub-area IX (CS3c), NAFO Greenland halibut fishery (CS5).

A communication analyzing the questionnaire, the cognitive maps and other stakeholder data was presented at the Fishery Dependent Information Conference (Galway, Ireland, 23-26 August 2010) and will be submitted for publication (see section 3.1.3.3).

The third stakeholder workshop is planned in June 2011 designed to meet stakeholders when the work of WP7 (Management and monitoring) has been sufficiently initiated for the project to present options for the management framework and stakeholders to discuss. This is a change from the Description of the Work (DoW), where only two stakeholder workshops were planned at month 2 and 34. The workshop at month 2 was held in June 2009 (see above). It was realized that having the second workshop close to the end of the project would not allow leave enough time to fully integrate the views from stakeholders in the proposed management framework, so that I was decided to held a stakeholder workshop in spring 2011 (i.e. about one year before the end of the project) and to present draft management framework to stakeholder at this workshop. Because of project partners agendas this workshop will most probably be organized in June 2011. A final stakeholder workshop scheduled in the Dow at M32 is kept unchanged for the time being.

3.1.3. Dissemination activities within the scientific community

3.1.3.1. International conferences, working groups and workshops

The participation and attendance of partners in various conferences, working groups and workshop are listed in tables 2, 3 and 4. The same tables are also to be found in Deliverable D1.2. (Interim Exploitation Plan) and in the upcoming project mid term report.

3.1.3.2. Publications and presentations

Scientific papers

Lorance, P. (2010). "History and dynamics of the overexploitation of the blackspot sea bream (*Pagellus bogaraveo*) in the Bay of Biscay." ICES Journal of Marine Science. doi:10.1093/icesjms/fsq048.

Lorance, P., L. Pawlowski, V.M. Trenkel (2010). "Standardizing blue ling landings per unit effort from industry haul-by-haul data using generalized additive models." ICES Journal of Marine Science. 10.1093/icesjms/fsq072

Pawlowski, L., Lorance, P. (2009). Effect of discards on roundnose grenadier stock assessment in the Northeast Atlantic. *Aquatic Living Resources* 22(4), 573-582.

Submitted paper

Lorance, P., Agnarsson, S., Damalas, D., Figueiredo, I., Gil J., Trenkel, V. M.: Using qualitative and quantitative stakeholder knowledge: examples from European deepwater fisheries. (*ICES Journal of Marine Science*).

Edwards CTT, Hillary RM, Levontin P, Blanchard J and Lorenzen K. Review of assessment and management approaches for deepwater stocks (*Reviews in Fisheries Science*)

3.1.3.3. Communications (presentations and posters) in conferences and other scientific meetings

ICES Annual Science conference 2009, Berlin, 21-25 September 2009

Lorance, P., Pawlowski, L., Trenkel, V.M.: Deriving blue ling abundance indices from industry haul by haul data. Poster

Lorance, P., Arnason, R., cloete, R., Diez, G., Dransfeld, L., Failler, P., Figueiredo, Il, Gil, J., González-Costas, F., Hillary, r., Jakobsdóttir, K., Large, P.A., Planque, B., Politou, C.-Y.: DEEPFISHMAN: management and monitoring of deep-sea fisheries and stocks. Poster (Appendix F)

14th Panhellenic Ichthyologists Symposium - Athens, May 2010

Damalas, D., Mytilineou, C., Politou, C-Y: Preliminary information on the red blackspot seabream (*Pagellus bogaraveo*) fishery and population status in the eastern Ionian Sea. Presentation

International meeting of the EU programme F7 HUNT, Paris, 1-2.June 2010

Blanchard, J.: Introductory talk about management strategy evaluation. Talk

Edwards, C.: Tutorial for FLR.

12th deep-sea biology symposium, Reykjavik, 7-11 June 2010

Lorance, P., Dransfeld, L., Frojan, C.B., Kenny A., Large, P.A., Trenkel, V.M.: Environmental assessment of the deep-water ecosystem to the West of the British Isles. Presentation

Jakobsdóttir, K., Agnarsson, S., Blanchard, J., Cloete, R., Diez, G., Dransfeld, L., Failler, P., Figueiredo, I., Gil, J., González-Costas, F., Large, P. A., Planque, B., Politou, C.-Y., Lorance, P. (2010). EU FP7 project DEEPFISHMAN: management and monitoring of deep-sea fisheries and stocks. Poster (Appendix G)

Fishery Dependent Information (FDI) ICES/NOAA Conference Galway, 23-26 August 2010: "Making the most of fisheries information underpinning policy management and science".

Lorance, P., Agnarsson, S., Damalas, D., Figueiredo, I., Trenkel, V. M.: Using qualitative and quantitative stakeholder knowledge: examples from European deepwater fisheries. Presentation

ICES Annual Science Conference, Nantes (France) 20-24 September 2010

Rochet, M.J., Trenkel, V.M., Rice, J.C.: A framework for qualitatively evaluating management plans in a results-based perspective. ICES CM 2010/P: 06, 15pp.

Trenkel, V.M and Lorance, P.: A likelihood method for identifying joint time trends in multiple variables: Application to population and fishing pressure indices of deep-water species. ICES CM 2010/G: 01, 12pp..

Table 2. List of conferences attended by Deepfishman scientists, since the start of the project (01/04/2009)

| 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 | www.turangra.com/congressos_en/seccao.php?id=9&link=52 |
| | | | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | | | XII Deep-sea biology symposium | 7-11/06/2010 | Reykjavik, Iceland | http://12dsbs.hi.is/ |
| | | | ICES Annual Science Conference | 20-24/09/2010 | Nantes/France | http://www.ices.dk/iceswork/asc/2010/index.asp |
| | P. Marchal | M | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | V. Trenkel | F | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | | | ICES Annual Science Conference | 20-24/09/2010 | Nantes/France | http://www.ices.dk/iceswork/asc/2010/index.asp |
| | L. Baulier | M | ICES Annual Science Conference | 20-24/09/2010 | Nantes/France | http://www.ices.dk/iceswork/asc/2010/index.asp |
| 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 | www.turangra.com/congressos_en/seccao.php?id=9&link=52 |
| | | | NAFO Scientific Council meeting | 4-18/06/2009 | Dartmouth, Canada | http://www.nafo.int/publications/frames/science.html |
| | A. Kenny | M | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | | | ICES Annual Science Conference | 20-24/10/2010 | Berlin, Germany | http://www.ices.dk/indexfla.asp |

| Partner | Name of participant | Sex | Event | Date | Location | URL or other references |
|----------|---------------------|-----|---|---------------|--------------------|--|
| Uol | G.Haraldsson | M | Conference Efficient Fisheries Management | 27-28/08/2009 | Reykjavik, Iceland | http://ioes.hi.is/conference/home.html |
| | S.Agnarsson | M | Conference Efficient Fisheries Management | 27-28/08/2009 | Reykjavik, Iceland | http://ioes.hi.is/conference/home.html |
| MI | L. Dransfeld | F | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| IMR | B. Planque | M | International Symposium on Climate Change Effects on Fish and Fisheries | 26-29/04/2010 | Sendai, Japan | www.pices.int/meetings/international_symposia/2010/cc_effects_fish/default.aspx |
| | | | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | | | ICES Annual Science Conference | 20-24/09/2010 | Nantes/France | http://www.ices.dk/iceswork/asc/2010/index.asp |
| IMR | D. Howell | M | UNCOVER symposium on fish stock recovery | 26-29/04/2010 | Rostock, Germany | |
| AZTI | D. Garcia | M | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | M. Santurtun | F | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| | | | ICES Annual Science Conference | 20-24/09/2010 | Nantes, France | http://www.ices.dk/indexfla.asp |
| Imperial | P. Levotin | F | ICES Annual Science Conference | 21-25/09/2009 | Berlin, Germany | http://www.ices.dk/indexfla.asp |
| MRI | K.Jakobsdóttir | F | XII Deep-sea biology symposium | 7-11:06/2010 | Reykjavik, Iceland | http://12dsbs.hi.is/ |
| | | | Conference Efficient Fisheries Management | | Reykjavik, Iceland | http://ioes.hi.is/conference/home.html |
| HCMR | D. Damalss | M | ICES Annual Science Conference | 20-24/09/2010 | Nantes, France | http://www.ices.dk/iceswork/asc/2010/index.asp |

Table 3. List of expert and working groups attended by Deepfishman scientists, since the start of the project (01/04/2009)

| Partner | Name of participant | Sex | Expert group | Date | Location | URL or other references |
|---------|---------------------|-----|---|-----------------|--|---|
| Ifremer | P. Lorance | M | 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 (CNPME), Paris, France | http://www.nwwrac.org/Meetings/Meetings_ENG/Navigation.php?id=355&language=English |
| | | | ICES PGNEACS | 09-11/06/2009 | Tromsø, Norway | http://www.ices.dk/workinggroups/WorkingGroups.aspx |
| | | | ICES/JRC, Marine Strategy Framework Directive Task Group 6 (MSFD TG6) | 25-26/06/2009 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=388 |
| | | | ICES/JRC, Marine Strategy Framework Directive Task Group 6 (MSFD TG6) | 26-28/10/2009 | Hiraklion, Greece | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=388 |
| | | | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | ICES WGDEEP expert group | 7-13 April 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | | | Long Distance RAC. 6 th Meeting of Working Group 2 of the LDRAC "Regional Fisheries Organizations and North Atlantic Agreements" | 15-16/04/2010 | Vigo, Spain | http://ldrac.eu/ |
| | | | ICES advice drafting group ADGCOR | 10-11 May 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | V. Trenkel | F | 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 | L. Pawlowski | M | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | ICES WGDEEP expert group | 7-13 April 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | P. A. Large | M | EC Workshop on deep-sea fishing | 31/08/2009 | DG Mare, EC, Brussels | Council of the EU DG BIII Fisheries North |
| | | | STECF SGMOS 09 03 Evaluation of management measures to be assessed in 2009 | 13-17/07/2009 | Copenhagen, Denmark | http://stecf.jrc.ec.europa.eu/home |

| Partner | Name of participant | Sex | Expert group | Date | Location | URL or other references |
|---------|---------------------|-----|---|------------------|-------------------------|---|
| Cefas | P. A. Large | M | SEAFO VME Workshop | 21/09/2009 | Swakopmund, Namibia | |
| | | | SEAFO Scientific Sub-Committee | to | | |
| | | | SEAFO Scientific Committee | 08/10/2009 | | |
| | | | Annual SEAFO Commission meeting | | | |
| | | | NAFO Scientific Council meeting | 4-18/06/2009 | Dartmouth, Canada | |
| | | | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | |
| | | | NAFO Scientific Council meeting | 03-16/06/2010 | Dartmouth, Canada | |
| | A. Kenny | M | SEAFO Scientific Sub-Committee | 27/09-01/10/10 | Swakopmund, Namibia | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | SEAFO Scientific Committee | 4-8/10/2010 | | |
| | | | Annual SEAFO Commission meeting | 11-15/10/2010 | | |
| | | | NAFO Working Group on Ecosystem Approach to Fisheries Management (WGEAFM) | 1-5/02/2010 | Vigo, SPain | |
| | | | ICES advice drafting group ADGQSR | 10-11/05/2010 | Copenhagen,Denmark | |
| | | | ICES Working Group of the Northwest Atlantic Regional marine ecoSystem) in June 2010.(WGNARS) | 20-22/04/2010 | Copenhagen,Denmark | |
| MI | L. Dransfeld | F | STECF SGMOS 09 03 Evaluation of management measures to be assessed in 2009 | 13-17/07/2009 | Copenhagen, Denmark | http://stecf.jrc.ec.europa.eu/home |
| | | | ICES PGNEACS | 09-11/06/2009 | Tromsø, Norway | http://www.ices.dk/workinggroups/WorkingGroups.aspx |
| | | | ICES WGDEEP expert group | 7-13 April 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | | | ICES WGNEACS | 8-10 June 2010 | Copenhagen, Denmark | |
| | | | STECF effort working group SGMOS 10-05 | 27/09-01/10 2010 | Aberdeen, UK (Scotland) | http://stecf.jrc.ec.europa.eu/home |
| IMR | B. Planque | M | ICES PGNEACS | 09-11/06/2009 | Tromsø, Norway | http://www.ices.dk/workinggroups/WorkingGroups.aspx |
| IMR | B. Planque | M | ICES Planning Group on Redfish Surveys (PGRS) | 01-03/09/2009 | Copenhagen, Denmark | http://www.ices.dk |
| | | | Transition Group on Integrating Surveys for the Ecosystem Approach (TGISUR) | 23/09/2009 | Berlin, Germany | http://www.ices.dk |
| | | | Workshop on the Determination of Acoustic Target Strength of Redfish (WKTAR) | 01-03/06/2010 | Tromsø; Norway | http://www.ices.dk |

| Partner | Name of participant | Sex | Expert group | Date | Location | URL or other references |
|---------|---------------------|-----|--|-----------------|--|---|
| IMR | B. Planque | M | ICES, SCICOM Steering Group on Ecosystem Surveys Science and Technology (SSGESST) | 21-23/09/2009 | Berlin, Germany | http://www.ices.dk |
| | | | ICES, SCICOM Steering Group on Ecosystem Surveys Science and Technology (SSGESST) | 20-22/09/2010 | Nantes, France | http://www.ices.dk |
| | D. Howell | M | ICES Arctic Fisheries Working Group (AFWG) | 21-27/04/2009 | San Sebastian, Spain | |
| | | | ICES Working Group on Multispecies Assessment Methods (WGSAM) | 05-09/10/2009 | Copenhagen, Denmark | |
| | | | ICES Study Group on Risk Assessment and Management Advice (SGRAMA) interim chair | 23-27/11/2009 | Madrid, Spain | |
| | | | ICES Benchmark Workshop on Roundfish 2010 (WKROUND) external expert | 9-12/02/2010 | Copenhagen, Denmark | |
| | | | ICES Arctic Fisheries Working Group (AFWG) | 22-28/04/2010 | Lisbon and Bergen | |
| | | | ICES Working Group on Multispecies Assessment Methods (WGSAM) | 4-8/10/2010 | San Sebastian, Spain | |
| 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 | |
| | G Diez | M | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | ICES WGDEEP expert group | 7-13 April 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | R Roa-Ureta | M | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | ICES WGDEEP expert group | 7-13 April 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| IPIMAR | I. Figueiredo | F | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | ICES WGDEEP expert group | 7-13 April 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | | | ICES WGEF expert group | 22-29/06/2010 | The Azores, Portugal | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=123 |

| Partner | Name of participant | Sex | Expert group | Date | Location | URL or other references |
|---------|---------------------|-----|---|--|--------------------------------|---|
| IPIMAR | I. Figueiredo | F | SEAFO VME Workshop SEAFO Scientific Sub-Committee SEAFO Scientific Committee Annual SEAFO Commission meeting | 21/09/2009 to 08/10/2009 | Swakopmund, Namibia | |
| | | | SEAFO Scientific Sub-Committee SEAFO Scientific Committee Annual SEAFO Commission meeting | 27/09-01/10/10 4-8/10/2010 11-15/10/2010 | | |
| | | | NAFO Scientific Council meeting | 4-18/06/2009 | Dartmouth, Canada | http://www.nafo.int/publications/frames/science.html |
| IEO | F. Gonzalez-Costas | M | 2+3KLMNO Greenland Halibut – Cooperative Industry/Government Project | 10-12/04/2009 | Vigo (Spain) | |
| | | | Halibut Assessment | 1-3/06/2009 | Dartmouth, Canada | http://www.nafo.int/publications/frames/science.html (SCS 09/25) |
| | | | NAFO Scientific Council meeting | 4-18/06/2009 | Dartmouth, Canada | http://www.nafo.int/publications/frames/science.html (SCS 09/24) |
| | | | NAFO Fisheries Commission WG on Greenland Halibut Management Strategies Evaluation | 28-29/01/2010 | Brussels, Belgium | |
| | | | NAFO Fisheries Commission WG on Greenland Halibut MSE | 2-4/05/2010 | Halifax, Canada | |
| | J. Gil | M | ICES Benchmark Workshop on Deep Water Species (WKDEEP) | 17-24/02/2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=425 |
| | | | ICES WGDEEP expert group | 7–13/04/ 2010 | Copenhagen, Denmark | http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=127 |
| | | | ICES ADGDEEP | 18-21/05/2010 | Copenhagen, Denmark | |
| | | | Join meeting supported by FAO between Spanish and Morocco (management of the red seabream fishery in the Strait of Gibraltar) | 22/07/2010 | Malaga Spain | |
| | | | Workshop for a join assessment of the red seabream of the Strait of Gibraltar | 22-23/09/2010 | C.O. Málaga, Fuengirola, Spain | |

Table 4. List of events with participation of Deepfishman scientists at national level, since the start of the project (01/04/2009)

| Partner | Name of participant | Sex | Name of the event | Date | Location | URL or other references |
|---------|--------------------------|-----|---|-------------|------------------|---|
| 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 Development and Sea |
| | | | Press Conference, BoBgeo cruise in relation to CoralFISH and DEEPFISHMAN | 19/11/2009 | Paris | Institut Océanographique |
| | | | Public conference from P. Lorance "Les mardis de la Thalassa" subject: Future for fishing for deepwater fish? [La pêche des poissons de grands fonds : quel avenir] | 23/03/2010 | Lorient (France) | http://www.ccstilorient.org/ccsti-agenda-conf-son.php |
| IEO | Fernando Gonzalez-Costas | M | Information Meeting with SGM and Fishing Industry about the NAFO Scientific Council Results | 30/07/2009 | Vigo (Spain) | Secretaría General del MAR |
| HCMR | D. Damalas | M | 14th Panhellenic Ichthyologists Symposium | 6-9/05/2010 | Athens | http://www.psid.gr/index.php?option=com_content&view=article&id=9&Itemid=10 |
| | C. Mytilineou | F | 14th Panhellenic Ichthyologists Symposium | 6-9/05/2010 | Athens | http://www.psid.gr/index.php?option=com_content&view=article&id=9&Itemid=10 |
| | C.Y. Politou | F | 14th Panhellenic Ichthyologists Symposium | 6-9/05/2010 | Athens | http://www.psid.gr/index.php?option=com_content&view=article&id=9&Itemid=10 |
| MI | L. Dransfeld | F | FP7 Environment national information day 2010, Dublin, Hilton Hotel | 06/10/2010 | Dublin | |

3.2. Internal activities

3.2.1. Internal meetings

Several internal meetings and workshops have been held during the first 18 months of the Project life

- Kick-off Meeting Nantes, France, 12-14. May 2009
- Case study workshop Lisbon, Portugal, 30 November-3 December and 5 December
- WP4/WP5 Workshop meeting London, UK, 27-28 May 2010
- Mid term meeting Nantes, France, 14-17 September 2010-10-02

3.2.3. WIKI repository for DEEPFISHMAN documents

A section of the partner's WIKI remains closed to the public view and is used actively for internal change of information and for working documents. This closed section serves as repository of all DEEPFISHMAN documents (Table 5)

Table 5. Outlines of the “virtual workshop” on the project's WIKI site. The section is the forum for internal exchange of information and documents and is closed to the public view.

| Outlines | Description |
|-------------------------------|---|
| Work packages | For each work package, presentations and working documents relevant for the work package in question. |
| Case studies | Final version of all case studies, data archives and relevant publications. |
| Main literature | Literature of interest to the project |
| Project meeting and workshops | Reports and minutes from all meetings and workshops |
| Ecological Risk Assessment | Discussions and proposals |
| Stakeholders' workshop | Report and minutes from Stakeholders' workshop (June 2009, December 2009) |

5. SUMMARY AND FUTURE PLANS

This document describes the dissemination activities that were carried out during the first 18 months of the DEEPFISHMAN project. Partner 1 (Ifremer) has mostly planned and coordinated all these efforts; however suitable implementation for the plan required close cooperation of all DEEPFISHMAN partners. Therefore, most partners have at some level contributed to these activities. This has resulted in many different well- done activities carried out at every level of dissemination and has already contributed in significant results. Firstly, an active communication plan with stakeholder has been accomplished and is maintained and secondly, high level of communication among partners is taking place that will lead to better end results of the project. For the second half of project's life dissemination work will continue to maintain communication plan with stakeholders. Analytical work within diverse work packages is advancing and some are completed. Therefore, for the latter half of the project life, effort will used to promote and encourage the uptake and use of the project results by policy makers and fishery managers. Numerous publications with results from this project will be published within next years and are expected to have a considerable impact within the scientific community. A formal link to DG MARE will be established to promote appropriate policy delivery mechanisms for the project results into the CFP and to prepare for maximum impact of Policy advice Report that will result from the project.

6. LIST OF ACRONYMS

| Acronym | Explanation | Http link (if applicable) |
|-----------|---|---|
| ACOM | ICES Advisory Committee | http://www.ices.dk/iceswork/acom.asp |
| BRPs | Biological Reference Points | |
| CORALFISH | EU project | http://eu-fp7-coralfish.net/ |
| DGMARE | Directive-General for Maritime Affairs and Fisheries | http://ec.europa.eu/dgs/maritimeaffairs_fisheries/index_en.htm |
| ICES | International Council for Exploration of the Sea | http://www.ices.dk/indexfla.asp |
| ICPC | International Cooperation Partner Country | |
| MSFD | Marine Strategy Framework Directive | |
| MSY | Maximum Sustainable Yield | |
| NEAFC | North East Atlantic Fisheries Commission | http://www.neafc.org/ |
| NGO | | |
| OSPAR | Mechanism by which fifteen Governments of the western coasts and catchments of Europe, together with the European Community, cooperate to protect the marine environment of the North-East Atlantic | http://www.ospar.org/ |
| PGNEAC | ICES Planning Group on North East Atlantic | |
| POORFISH | EU project | http://www.poorfish.eu/ |
| RAC | Regional Advisory Council | |
| RFMO | Regional Fishery Management Organisation | |
| RP | Reference Point | |
| SEAFO | South East Atlantic Fisheries Organisation | http://www.seafo.org/ |
| STECF | Scientific, Technical and Economic Committee for Fisheries | https://stecf.jrc.ec.europa.eu/ |
| TXOTX | EU project | http://www.txotx.net/ |
| WKPOOR | ICES –ACOM Workshop on analytical methods for evaluation of extinction risk of stocks in poor condition | |
| WGDEEP | ICES Working Group on the Biology and Assessment of Deep Sea Fisheries Resources | |

7.APPENDICES

APPENDIX A. DEEPFISHMAN LEAFLET

DEEPFISHMAN OBJECTIVES

Target species in the Deep-water fisheries have posed particular difficulties for monitoring and management. There are few fisheries independent surveys carried out, their life history characteristics makes them difficult to assess and many of these fisheries are predominantly in international waters.

The primary objective of the project is to identify and develop new and more effective monitoring and assessment methods, reference points, control rules and a management framework to be used in the short term. The second objective is to develop a long-term monitoring and management framework to achieve reliable long-term management requirements.

The project outputs will aim to provide robust guidelines for deepwater fisheries management suitable for adoption within the Common Fishery Policy.



Photo: SCAPECHE

DEEPFISHMAN PARTNERS

- **IFREMER** Institut Français de Recherche pour l'Exploitation de la Mer, France
- **Cefas** Centre for Environment, Fisheries and Aquaculture Science, UK
- **UoI** Institute of Economic Studies (IoES), University of Iceland, Iceland
- **IMR** Institute of Marine Research, Norway
- **IMPERIAL** Imperial College of London, UK
- **NaMIIRC** National Marine Information and Research Center, Namibia
- **AZTI** Fisheries and Food Technological Institute, Spain
- **IPIMAR** National Institute of Biological Resources, Portugal
- **MI** Marine Institute, Ireland
- **HCMR** Hellenic Centre for Marine Research, Greece
- **IEO** Spanish Institute of Oceanography, Spain
- **MRI** Marine Research Institute, Iceland
- **UoP** University of Portsmouth, UK

EU Seventh Framework Programme 2009-2012
DEEPFISHMAN

Project Management And Coordination
Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER)

Dr. Pascal Lorange
Pascal.Lorange@ifremer.fr



EU SEVENTH FRAMEWORK PROGRAMME 2009-2012

DEEPFISHMAN

Management And Monitoring
Of Deep-sea Fisheries And
Stocks

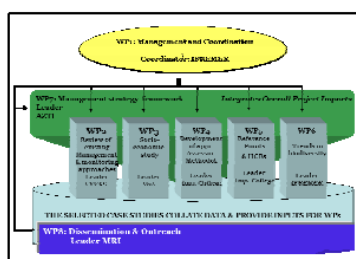


Grant agreement no.: 227390

<http://www.ifremer.fr/deepfishman>

Deepfishman

DEEPFISHMAN ORGANISATION



The project comprises 8 work packages (WP) and 5 main case studies. A range of strategy options for monitoring and management will be developed which will incorporate an ecosystem approach to fisheries management. The socio-economic profiles of the case study fisheries and the impact of management strategies examined for selected stocks.



Photo: Benjamin Piller

The case studies are selected to reflect the characteristics and diversity of deep-water fisheries. Their output will contribute to several of the work packages for further data analysis.

- **Directed single species fisheries:** Highly vulnerable: Orange roughy (*Hoplostethus atlanticus*)/ Less vulnerable: Blue ling (*Molva dypterygia*)
- **Mixed demersal trawl fisheries**
- **Artisanal fisheries:** Highly vulnerable: Red Seabream (*Pagellus bogaraveo*)/ Less vulnerable: Black scabbard (*Aphanopus carbo*)
- **Data rich stocks:** Oceanic redbfish (*Sebastes mentella*)
- **Data rich stocks:** Greenland Halibut (*Reinhardtius hippoglossoides*)



Photo: Juan Gu Herrera



Photo: IEO Cadiz

STAKEHOLDERS' CONTRIBUTION

Stakeholder's involvement is an essential part of the project, since they offer a source of unique information in undertaking proposed approaches. Their involvement is realized through workshops where views on the present and possible future management regimes will be formulated. Communication with stakeholders through out the project will be carried out and maintained through a stakeholder outreach and dissemination program.



Photo: Juan Gu Herrera

APPENDIX B. DEEPFISHMAN NEWSLETTER. Please click on the page to get the full pdf version (5pages).



Our three-year project kicked off in May 2009. This is our first Newsletter. It presents our aims, our work plan, our research team, relevant policy context and some of our work so far.

DEEPFISHMAN - Management and Monitoring of deep-sea Fisheries and Stocks

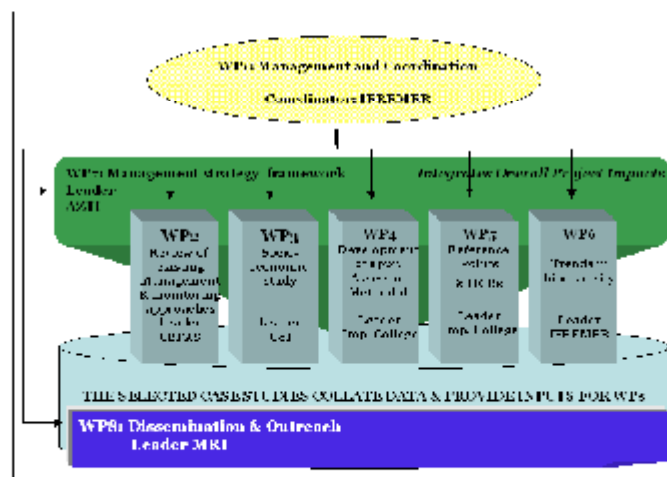
A research project funded by the European Union FP7



Newsletter 1 - March 2010

The EU project DEEPFISHMAN will develop a short- and long-term monitoring and management framework for deepwater fisheries in the NE Atlantic. This work will be developed by examining a range of case studies selected to reflect the diverse characteristics of the different types of deepwater fishery. The project outputs will aim to provide robust guidelines for deepwater fisheries management suitable for adoption within the Common Fishery policy. Contribution from stakeholders is essential for integration of stakeholder views in the project.

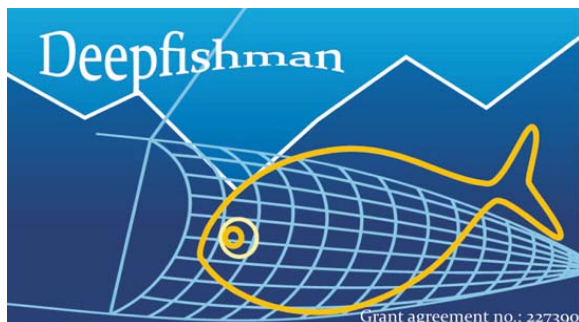
The project is organised as follows:



Check our main website regularly <http://www.iffremer.fr/deepfishman>
Stay in touch through our multilingual stakeholders questionnaire at
<http://deepfishman.hatiro.is/doku.php>

-1-

APPENDIX C. INVITATION LETTER FOR STAKEHOLDER WORK SHOP



Management and Monitoring of deep-sea Fisheries and Stocks

Stakeholder Workshop 29 and 30 June 2009

Deepwater fisheries pose particular difficulties for management. Target species are difficult to assess and they are generally vulnerable to overfishing. The EU project DEEPFISHMAN will develop a range of strategy options for the management of deepwater fisheries in the NE Atlantic that will take account of these factors. Firstly, the aim will be to identify new and more effective assessment methods, reference points, control rules and management strategies to be used in the short term, making better use of available data. Secondly, a reliable long-term framework will be developed for which additional data needs will be specified in order to fill current information gaps to achieve reliable long-term management requirements. This work will be developed by examining a range of case studies selected to reflect the diverse characteristics of the different types of deepwater fishery. The socio-economic profile and projected impact of the management strategy options will be examined. The project outputs will aim to provide robust guidelines for deepwater fisheries management suitable for adoption within the Common Fishery policy.

The workshop will provide short descriptions of the three-year project tasks and partners.

A number of participatory sessions will:

1. **Define the stakeholder community**
2. **Discuss Strengths and Weaknesses of current management and monitoring regimes**
3. **Identify channels and details of stakeholder engagement**
4. **Finalise the project Communication Strategy to maximise stakeholder engagement**

**CLORA 8 avenue des Arts, 1210 Métro Madou
Monday 29 June 10am - 4:30pm, Tuesday 30 June 9am – 4pm**



Free Registration before 26 June: Patricia.Thibault.Pralin@ifremer.fr

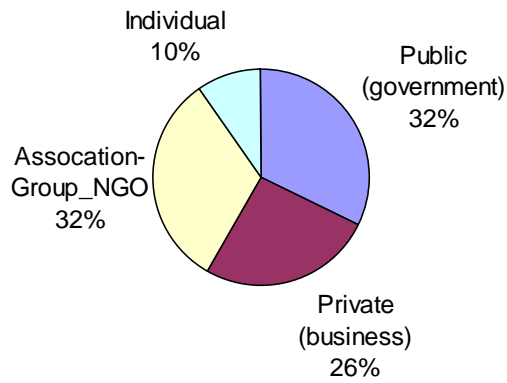
Research project 2009-2012 supported by the European Union,
Seventh Frame Work Programme



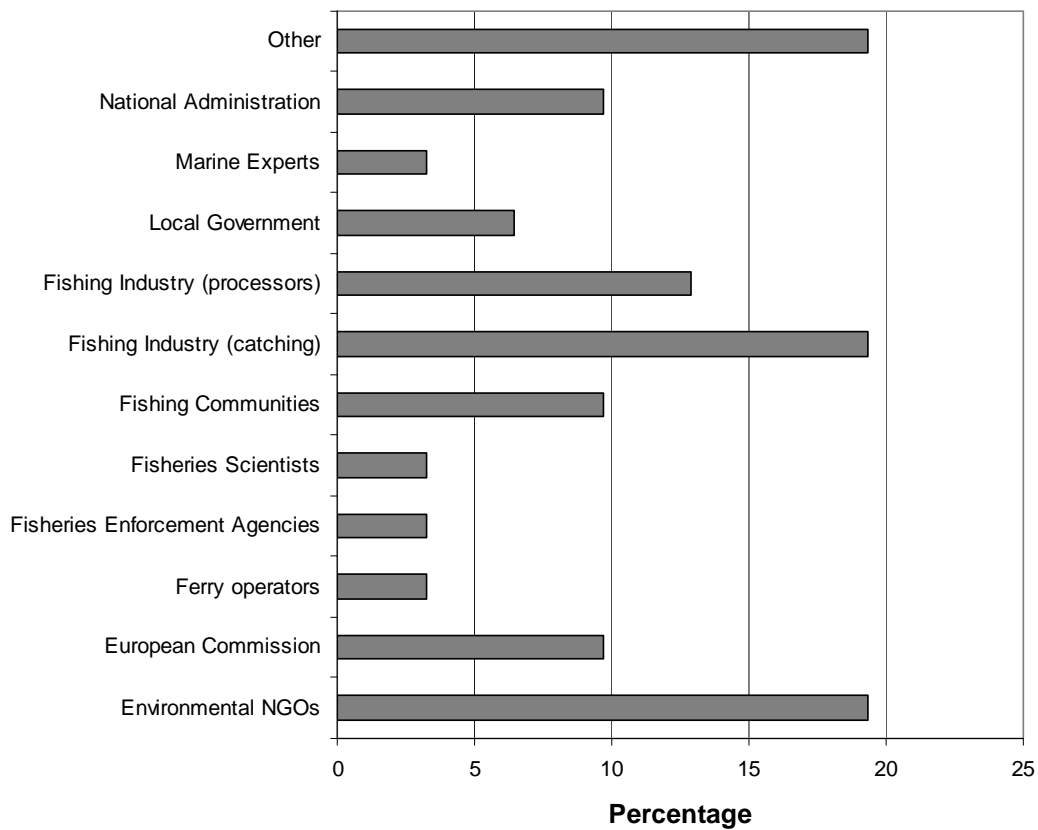
APPENDIX D. DEEPFISHMAN FIRST STAKEHOLDER QUESTIONNAIRE

Web-survey was published on the web in October 2009 in five languages. Questions and responses are shown here.

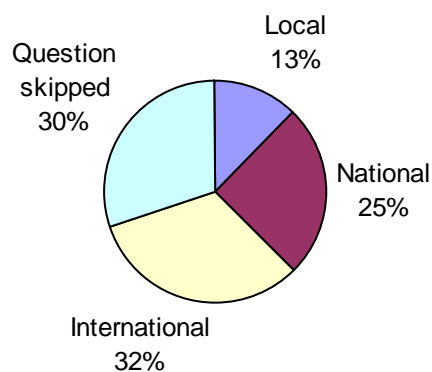
Q1: Stakeholder Category



Q2: Stakeholder Type



Q 3: Geographical scale of your personal activities



Q 4: Country where you are personally based

| Country | Response number | Percentage |
|----------|-----------------|------------|
| Belgium | 3 | 9% |
| France | 2 | 6% |
| Germany | 1 | 3% |
| Greece | 2 | 6% |
| Portugal | 10 | 32% |
| Spain | 5 | 16% |
| UK | 8 | 25% |
| USA | 1 | 3% |
| total | 32 | 100% |

Q 5: Are you already involved in Deepfishman?

| Answer Options | Response (number) |
|----------------|-------------------|
| Yes | 6 |
| No | 25 |
| Comments | 4 |
| Total | 31 |

Q 6: Were you at Workshop, Brussels, June 2009?

| Answer Options | Response (number) |
|------------------|-------------------|
| Yes | 2 |
| No | 9 |
| Question skipped | 22 |
| total | 33 |

Q 7: Are you represented in a RAC?

| Answer Options | Response (number) |
|------------------|-------------------|
| Yes | 7 |
| No | 4 |
| Question skipped | 22 |
| total | 33 |

Q 8: How would you prefer to be involved in Deepfishman?

| Answer Options (multiple answers allowed) | Response (number) | Percentage |
|--|-------------------|------------|
| Be informed | 23 | 45% |
| Be consulted | 19 | 37% |
| Collaborate-in partnership | 9 | 18% |
| Oversee | 0 | 0 |
| total | 51 | 100 |
| Comments | 3 | |
| skipped question | 2 | |

Q 9: At what stage of the project would you like to be involved?

| Answer Options (multiple answers allowed) | Response (number) | Percentage |
|--|-------------------|------------|
| Initial Diagnostic | 12 | 17% |
| Define Strategy and options | 22 | 31% |
| Analyses | 16 | 23% |
| Discuss conclusions | 21 | 30% |
| total | 71 | 100 |
| Comments | 2 | |
| skipped question | 7 | |

Q 10: What are your favorite means of communication?

| Answer Options (multiple answers allowed) | Response (number) |
|--|-------------------|
| Check the Website/WIKI site | 4 |
| Receive email alerts | 30 |
| Contribute to newsletter | 5 |
| Attend conferences | 13 |
| Read scientific paper | 15 |
| Other | 2 |

Q 11: Please provide your email address below: This field needs to be completed to become a part of Deepfishman's stakeholder community

➔ Field was provided for email address

APPENDIX E. DEEPFISHMAN SECOND QUESTIONNAIRE – SOCIO ECONOMY.

Second web survey was published in February 2010 in five languages (questions and answer options shown here)

- **1. Would you say that current catch rates in the deep-sea fisheries are better, worse or more or less the same as they were in the past (e.g. 10 years ago)?**
 - Better
 - Worse
 - More or less the same
- **2. Would you say that current profits in the deep-sea fisheries are better, worse or more or less the same as they were in the past (e.g. 10 years ago)?**
 - Better
 - Worse
 - More or less the same
- **3. How do you see the future of these deep-sea fisheries? Do they hold a better future, will they be worse, or more or less the same as they are now?**
 - Better (will attract more investors)
 - Worse (not viable)
 - More or less the same (viable)
- **4. Which of the following management tools would you like to see changed? More than one response is allowed.**
 - TACs
 - Licensing
 - Effort restrictions
 - Individual vessel quota systems
 - Seasonal closures
 - Spatial closures
 - Banning of certain fishing practices (gears)
 - Re-commencing of subsidies
 - Control of recreational fishing
 - Fuel taxing
 - Nothing should change
 - Other (please define)
- **5. Which of the following management tools do you think are best suited to protect deep-water ecosystem? More than one response is allowed.**
 - TACs
 - Licensing
 - Effort restrictions
 - Individual vessel quota systems
 - Seasonal closures
 - Spatial closures
 - Banning of certain fishing practices (gears)
 - Control of recreational fishing
 - Other

APPENDIX F. DEEPFISHMAN POSTER (ICES 2009). Please click on figure to get a pdf version of the document



EU FP7 project DEEPFISHMAN

Management and monitoring of deep-sea fisheries and stocks

Pascal Lorange*, Ragnar Amason, Rudy Cloete, Leonie Dransfeld, Ivone Figueiredo, Juan Gil, Guzman Diaz, Pierre Fallier, Fernando González-Costas, Kíara Jakobsdóttir, Phil A. Large, Richard Hillary, Benjamin Planque, Christl-Yanna Politou

*Contact author: Pascal Lorange, Ifremer, rue de l'Île d'Yeu, BP 21105, 44311 Nantes Cedex, pascal.lorange@ifremer.fr

Introduction

DEEPFISHMAN is a research project funded by the European Union FP7. Its main focus will be on developing a range of strategy options for the exploitation of deep-water species in NE Atlantic. DEEPFISHMAN relies upon interdisciplinary research from fishery science, ecology and socio-economy. It will establish strong involvement of stakeholders in the definition of monitoring and management frameworks for deepwater fisheries. It comprises thirteen partners from nine countries.




Objectives

1. To identify and develop new and more effective monitoring and assessment methods, reference points, control rules and management framework to be used in the short term
2. To develop a long-term monitoring and management framework in which additional data needs will be specified in order to fill current information gaps to achieve reliable long-term management requirements

The project will define a prototype ecosystem based management framework for deep-water fisheries in the NE Atlantic as an alternative to the current stock-based management regime




Background

Deepwater fisheries in the NE Atlantic are comprised of longstanding artisanal fisheries off the Azores and off Portugal and more recent time high-seas trawling line fishing. Deepwater fisheries pose particular difficulties for management. There are few independent surveys carried out. The history characteristics of deep sea fishes makes them difficult to assess and many of these fisheries are predominantly in international waters. Most deep-water fish species are long-lived, slow growing and have a low reproductive capacity. They are adapted to live in an ecosystem of low energy turnover in which major environmental changes occur infrequently (ICES, 2001). These ecosystems, including deep-water fishery resources, are vulnerable and are considered in need of protection (OSPAR, 2000). Almost all deep-water fisheries in the NE Atlantic were, until 2003 unregulated. Current EU management measures comprise biennial TACs EC, 2002b, 2004, 2006), a vessel licensing scheme with aggregate power and capacity regulations and fishing effort regulations.



ICES new subareas and divisions defined in 2003 to deal with deepwater fisheries issues

Stakeholder involvement

An initial start-up stakeholder workshop was held in Brussels on 29-30 June 2009. A questionnaire will be developed and distributed to the different categories of stakeholders identified at the initial workshop. The communication plan with stakeholders includes participation by DEEPFISHMAN partners in RAC meetings, collaboration with stakeholders at the Case Study level, a DEEPFISHMAN newsletter and two further workshops.




Organization

The project comprises 8 work packages and 5 main case studies. A range of strategy options for monitoring and management will be developed which will incorporate an ecosystem approach to fisheries management. The socio-economic profiles of the case study fisheries and the impact of management strategies will be examined for selected stocks.



Further information

Project coordination: Dr. Pascal Lorange
Pascal.Lorange@ifremer.fr
<http://www.ifremer.fr/deepfishman>
Wiki site:
<http://deepfishman.hafo.is/doku.php>

References


ICES, 2001. Report of the working group on biology and assessment of deep-sea fisheries resources. International Council for the Exploration of the Sea (ICES), Copenhagen, ICES CM 2001/AC/PM 20, 41pp.

OSPAR, 2006. Quality Status Report 2000 for the North-East Atlantic. Chapter 5, overall assessment, 15pp. Available at <http://www.ospar.org>

DEEPFISHMAN Partners

| | | | |
|-----------------|------------------|--------------|------------------|
| IFREMER, France | IMPERIAL, UK | IMI, Ireland | IPIMAR, Portugal |
| Cefas, UK | NatMIRC, Namibia | HCMR, Greece | IMR, Norway |
| UoI, Iceland | AZTI, Spain | IEO, Spain | UoP, UK |
| | | | MRI, Iceland |

APPENDIX G. DEEPFISHMAN POSTER (DSB 2010). Please click on figure to get a pdf document.



EU FP7 project DEEPFISHMAN

Management and monitoring of deep-sea fisheries and stocks

Klara B. Jakobsdóttir, Sveinn Agnarsson, Julia Blanchard, Rudy Cloete, Guzman Diaz, Leonie Dransfeld, Pierre Fallier, Ivone Figueiredo, Juan Gil Herrera, Fernando González-Costas, Phil A. Large, Benjamin Planque, Christl-Yanna Poltjou, Pascal Lorance*

*Contact author: Pascal Lorance, Ifremer, rue de l'Île d'Yeu, BP 21105, 44311 Nantes Cedex, pascal.lorance@ifremer.fr

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DEEPFISHMAN is a research project funded by the European Union FP7. Its main focus will be on developing a range of strategy options for the exploitation of deep-water species in NE Atlantic. DEEPFISHMAN relies upon interdisciplinary research from fishery science, ecology and socio-economy. It will establish strong involvement of stakeholders in the definition of monitoring and management frameworks for deepwater fisheries. It comprises thirteen partners from nine countries.

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1. To identify and develop new and more effective monitoring and assessment methods, reference points, control rules and management framework to be used in the short term
2. To develop a long-term monitoring and management framework in which additional data needs will be specified in order to fill current information gaps to achieve reliable long-term management requirements

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Background

Deepwater fisheries in the NE Atlantic are comprised of longstanding artisanal fisheries off the Azores and off Portugal and more recent time high-seas trawl/long line fishing. Deepwater fisheries pose particular difficulties for management. There are few independent surveys carried out, life history characteristics of deep sea fishes makes them difficult to assess and many of these fisheries are predominantly in international waters. Most deep-water fish species are long-lived, slow growing and have a low reproductive capacity. They are adapted to live in an ecosystem of low energy turnover in which major environmental changes occur infrequently (ICES, 2001). These ecosystems, including deep-water fishery resources, are vulnerable and are considered in need of protection (OSPAR, 2000). Almost all deep-water fisheries in the NE Atlantic were, until 2003 unregulated. Current EU management measures comprise biennial TACs EC, 2002b, 2004, 2006), a vessel licensing scheme with aggregate power and capacity regulations and fishing effort regulations.

Progress

Reviews on existing management and monitoring framework for deep-water fisheries/stocks have been completed. These create the backbone for the forthcoming examination and analysis. The socio-economic profiles and the impact of management strategies are being examined for selected stocks. The results of this work will be used for development of monitoring and management framework for deep-water fisheries which will incorporate an ecosystem approach to management.

Stakeholder involvement

Several approaches are used to integrate view from stakeholders. Several stakeholder workshops have been held and questionnaires were distributed. Cognitive maps were used to identify how stakeholders perceive the current management framework.













Further information

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<http://deepfishman.hatiro.fr/doku.php>

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