



ORFISH - Development of innovative, low-impact offshore fishing practices for small-scale vessels in outermost regions - MARE/2015/06



WP2 Raising awareness of the opportunities to develop innovative fishing techniques

Task 2.2 Desktop study to collate of existing technical information on experimental fishing

Deliverable #9

Database of references compiling the existing information on experimental fishing

The ORFISH project

The ORFISH project aims at providing a platform for exchange of knowledge on low-impact offshore fishing techniques among fishers for the outermost regions with a view to developing and optimizing these techniques and with the principal objective of alleviating fishing pressure on coastal fish resources. The specific objectives of the project are the following:

- Raising awareness of the opportunities to develop innovative fishing techniques allowing to divert fishing effort away from coastal resources
- Developing and testing low impact fishing techniques adapted to the bio-geographical conditions of each outermost region
- Creating alternative fishing opportunities that will help to consolidate jobs in the fishing industry and ensure a steady supply of fisheries products to local markets
- Exchanging of best practice on low-impact offshore fishing techniques between ORs, which will also do good to overseas countries and territories and third countries
- Improving communication among outermost regions' fishing sectors as part of the good functioning of the Advisory Council on Outermost Regions

ORFISH website:

<http://orfish.eu>

Contributors to this deliverable

Henrique Ramos, seaExpert (Task coordinator)

Andrea Zanella, seaExpert

Cesar Gomes, Direção Regional das Pescas do Governo dos Açores

Maria Ninoska Pavon Salas, Gestion del Medio Rural de Canarias

Olivier Guyader and Patrick Berthou, Ifremer Brest

David Roos, Ifremer Réunion

Lionel Reynal, Ifremer Martinique

Table of contents

I.	Objectives and methodology.....	3
II.	Database.....	3
2.1	Azores.....	3
2.2	Madeira.....	6
2.2.1	Reports.....	6
2.2.2	Posters.....	11
2.3	Canaries.....	11
2.4	La Réunion and Mayotte.....	13
2.5	Guadeloupe, Martinique and Saint-Marteen.....	16
2.6	French Guiana.....	20

I. Objectives and methodology

The database presented in this report is an exhaustive review of existing technical information on experimental fishing. This review has been done over a period covering the last 30 years based on available literature, databases and reports. For each outermost region (OR), several universities and public investigation centres have also been consulted.

All the non-published reports and papers presented in this database will be gradually scanned and published on the ORFISH website in order to make them public

II. Database

2.1 Azores

Abecasis RC, Afonso P, Colaço A, Longnecker N, Clifton J, Schmidt L and Santos RS (2015) Marine Conservation in the Azores: Evaluating Marine Protected Area Development in a Remote Island Context. *Front. Mar. Sci.* 2:104. doi: 10.3389/fmars.2015.00104;

Access rules for fishing activities at the CONDOR bank – Portaria nº 48/2010 de 14 de maio de 2010;

Amendment and republication of the Legal Framework for Azorean Fisheries – Decreto Legislativo Regional n.º 31/2012/A de 6 de julho de 2014;

Amendment of Regulation of gillnet fishing in the Azores – Portaria nº 48/2006 de 22 de junho de 2006;

Azores Marine Park – Decreto Legislativo Regional n.º 28/2011/A de 11 de novembro de 2011;

Bordalo-Machado, P., and Figueiredo, I. 2009a. The fishery for black scabbardfish (*Aphanopus carbo* Lowe, 1839) in the Portuguese continental slope. *Reviews in Fish Biology and Fisheries*, 19: 49–67;

Bordalo-Machado, P., Fernandes, A. C., Figueiredo, I., Moura, O., Reis, S., Pestana, G., and Gordo, L. S. 2009b. The black scabbardfish (*Aphanopus carbo* Lowe, 1839) fisheries from the Portuguese mainland and Madeira Island. *Scientia Marina*, 73S2: 63–76;

Cardigos, F., Colaço, A., Dando, P. R., Ávila, S. P., Sarradin, P. M., Tempera, F., et al. (2005). Shallow water hydrothermal vent field fluids and communities of the D. João de Castro Seamount (Azores). *Chem. Geol.* 224, 53–168. doi: 10.1016/j.chemgeo.2005.07.019;

Carvalho, Natacha, Gareth Edwards-Jones, and Eduardo Isidro. "Defining scale in fisheries: Small versus large-scale fishing operations in the Azores." *Fisheries Research* 109.2-3 (2011): 360-369;

Council Regulation (EC) No 1568/2005 of 20 September 2005 amending Regulation (EC) No 850/98 as regards the protection of deep-water coral reefs from the effects of fishing in certain areas of the Atlantic Ocean;

Council Regulation (EC) No 2027/95 of 15 June 1995 establishing a system for the management of fishing effort relating to certain Community fishing areas and resources;

Cuvelier, D., Sarrazin, J., Colaço, A., Copley, J., Desbruyères, D., Glover, A. G., et al. (2009). Distribution and spatial variation of hydrothermal faunal assemblages at Lucky Strike (Mid-Atlantic Ridge) revealed by high-resolution video image analysis. *Deep Sea Res. I Oceanogr. Res. Pap.* 56, 2026–2040. doi: 10.1016/j.dsr.2009.06.006;

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Gui Manuel Machado Menezes and Octavio Emanuel Barros Moura Melo, 2002. Projecto de Acompanhamento da Experiencia de Pesca Dirigida ao Peixe-Relógio (*Hoplostethus atlanticus*) - FISHOR. Relatório final. Arquivos do DOP, Serie Estudos n° 4/2002, 37 p.;

Hareide, N. R., and Garnes, G. 2001. The distribution and catch rates of deep-water fish along the Mid-Atlantic Ridge from 43 to 618N. *Fisheries Research*, 51: 297–310;

<http://ec.europa.eu>;

ICES. 2006. Report of the Working Group on the Biology and Assessment of Deep-sea Fisheries Resources. ICES Document CM 2006/ACFM: 28;

Jorge Morais P., 1990. Selectividade do anzol relativamente ao *Pagellus bogaraveo* (goraz) e ao *Helicolenus dactylopterus dactylopterus* (boca negra), pescado nos Açores. Relatório de estagio de licenciatura em biologia marinha e pescas, TA-183, 74p.;

Legal Framework for Azorean Fisheries – Decreto Legislativo Regional n.º 29/2010/A de 9 de novembro de 2010;

Legal regime applicable to the first sale of fresh fish in the Azores – Decreto Legislativo Regional n.º 15/2016/A de 22 de julho de 2016;

Legal regime of access and use of natural resources for scientific purposes – Decreto Legislativo Regional n.º 9/2012/A de 20 de março de 2012;

Legal regime of Nature conservation and Biodiversity protection – Decreto Legislativo Regional n.º 15/2012/A de 2 de abril de 2012;

Machete, M., Morato, T., & Menezes, G. (2010). Experimental fisheries for black scabbardfish (*Aphanopus carbo*) in the Azores, Northeast Atlantic. *ICES Journal of Marine Science*, 68(2), 302-308;

Menezes G., and Melo, O. E., 2002. Projecto de Acompanhamento da Experiencia de Pesca Dirigida ao Peixe-Relógio (*Hoplostethus atlanticus*) - FISHOR. Relatório final. *Arquivos do DOP*, Serie Estudos n° 4/2002, 37 p.;

Manzer, J.I., T. Ishida, A. E. Peterson e M.G. Hanavan. 1965. Salmon of the North Pacific Ocean – Part V. Offshore distribution of salmon. *Bull. Int. North Pac. Fish. Comm.* 15:452pp.;

Mario R. Pinho, Melo, O., Gonçalves J. & Martins, H., 2001. Pesca experimental de crustaceos de profundidade nos Açores (CRUSTAÇO). Arquivos do DOP, Serie Relatorios Internos n° 2/2001, 82 p.;

Martin, A.R., Melo, A.M.A. 1983. The Azorean sperm whale fishery: a relic industry in decline. Report of the International Whaling Commission, 33: 283-286;

Martins, R., and Ferreira, C., 1995. Line fishing for black scabbardfish (*Aphanopus carbo* Lowe, 1839) and other deep-water species in the eastern mid Atlantic to the north of Madeira. In *Deep-Water Fisheries of the North Atlantic Oceanic Slope*, pp. 323–335. Ed. by A. G. Hopper. NATO ASI Series, the Netherlands;

Martins, R., C. Ferreira, 1995. Line fishing for black scabbardfish (*Aphanopus carbo* Lowe, 1839) and other deep-water species in the eastern mid Atlantic to the north of Madeira. In A.G. Hopper (ed.). *Deep-water fisheries of the North Atlantic oceanic slope*. NATO ASI Series, Netherlands, pp. 323-335;

Melo, O. E., 1998. Relatório da experiência de pesca ao Peixe-Espada-Preto (*Aphanopus carbo* Lowe, 1839) levada a cabo pela embarcação “Baía dos Juncos” no Arquipélago dos Açores. *Arquivos do DOP*, Série Relatórios Internos, n° 2/99: 21pp;

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Menezes, G. and Melo, O.E., 2002. Projecto de Acompanhamento da Experiencia de Pesca Dirigida ao Peixe-Relógio (*Hoplostethus atlanticus*) - FISHOR. relatório final. Arquivos do DOP, Serie Estudos nº 4/2002, 37 p.;

Menezes, G., 1996. Interações tecnológicas na pesca demersal dos Açores. "APCC" Thesis [Master thesis equivalent], University of the Azores, Oceanographic and Fisheries Department, Portugal. Arquivos do DOP, Série Estudos, No. 1/96: 187 pp;

Menezes, G., Rosa, A., Melo, O.E, and Pinho, M. 2009. Demersal fish assemblages off the Seine and Sedlo seamounts (Northeast Atlantic). *Deep Sea Research II: Topical Studies in Oceanography*, 56: 2683–2704;

Morato, T., Lemey, E., Menezes, G., Pham, CK., Brito, J., Soszynski, A., Pitcher, T.J. and Heymans, JJ., 2016. Food-Web and Ecosystem Structure of the Open-Ocean and Deep-sea Environments of the Azores, NE Atlantic. *Front. Mar. Sci.* 3:245. doi: 10.3389/fmars.2016.00245;

Morato, T. "Description of environmental issues, fish stocks and fisheries in the EEZs around the Azores and Madeira." *Report Prepared for the STECF Plenary Meeting*. Vol. 12. No. 03. 2012;

Morato, T., M. Machete, A. Kitchingman, F. Tempera, S. Lai, G. Menezes, R.S. Santos, T.J. Pitcher, 2008a. Abundance and distribution of seamounts in the Azores. *Marine Ecology Progress Series* 357: 17-21;

Morato, T., T.J. Pitcher, M.R. Clark, G. Menezes, F. Porteiro, E. Giacomello, R.S. Santos, 2010. Can we protect seamounts for research? A Call for Conservation. *Oceanography* 23(1): 190-199;

Peran AD, Pham CK, Amorim P, Cardigos F, Tempera F and Morato T (2016) Seafloor Characteristics in the Azores Region (North Atlantic). *Front. Mar. Sci.* 3:204. doi: 10.3389/fmars.2016.00204.;

Pereira, J.G., 1988a. La pêcherie de l'espadon aux Açores. *Col. Vol. Sci. Pap. ICCAT.* 27, 318-320;

Pham, C. K., Canha, A., Diogo, H., Pereira, J. G., Prieto, R., and Morato, T. (2013). Total marine fisheries catch for the Azores (1950-2010). *ICES J. Mar. Sci.* 70, 564–577. doi: 10.1093/icesjms/fst024;

Pham, Christopher K., et al. "The importance of deep-sea vulnerable marine ecosystems for demersal fish in the Azores." *Deep Sea Research Part I: Oceanographic Research Papers* 96 (2015): 80-88;

Pham, Christopher K., et al. "Total marine fishery catch for the Azores (1950–2010)." *ICES Journal of Marine Science* 70.3 (2013): 564-577;

Pinho, M. R. & Pereira, J., 1995a. Dispositivos para a concentração de peixes nos Açores. *Archivos do DOP, Serie: Estudos nº 3/95*, 17p.;

Pinho, M. R., & Pereira, J., 1995 b. Anchored fish aggregating devices in Azorean waters. *COLLECTIVE VOLUME OF SCIENTIFIC PAPERS-INTERNATIONAL COMMISSION FOR THE CONSERVATION OF ATLANTIC TUNAS*, 45, 229-235;

Pinho, M. R. & Pereira, J., 1995c. Pesca experimental com palangre de profundidade dirigido a grande pelagicos. *Archivos do DOP, Serie: Cruzeiros, nº 1/95*, 18 p.;

Pinho, M. R., Melo, O.E., Gonçalves J. & Martins, H., 2001. Pesca experimental de crustáceos de profundidade nos Açores (CRUSTAÇO). *Arquivos do DOP. Série Relatórios Internos, nº 2/2001, IV*, 82 p.

Pitcher, T. J., Clark, M. R., Morato, T., and Watson, R. 2010. Seamount fisheries: do they have a future? *Oceanography*, 23: 134–144;

Prohibition of the landing in the ports of the Region of any fish caught by bottom trawls – Portaria nº 7/2012 de 11 de janeiro de 2012;

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

- Regulation of "hands catch" in the Azores – Portaria nº 1/2014 de 10 de janeiro de 2014;
- Regulation of fishing with trap gears in the Azores – Portaria nº 30/2004 de 22 de abril de 2004;
- Regulation of gillnet fishing in the Azores – Portaria nº 91/2005 de 22 de dezembro de 2005;
- Regulation of line fishing in the Azores – Portaria nº 101/2002 de 24 de outubro de 2002;
- Regulation of purse seine fishing in the Azores – Portaria nº 57/2001 de 13 de setembro de 2001;
- Reis, S., Sena-Carvalho, D., Delgado, J. H., and Afonso-Dias, M. 2001. Historical overview of the black scabbardfish (*Aphanopus carbo* Lowe, 1839) fishery in Madeira Island. Deep-sea Fisheries Symposium, Poster. NAFO SCR Document 01/103;
- Revocation of the Access rules for fishing activities at the CONDOR bank – Portaria nº 88/2014 de 31 de dezembro de 2014;
- Revocation of the Regulation of "hands catch" in the Azores – Portaria nº 57/2018 de 30 de maio de 2018;
- Revocation of the Regulation of fishing with trap gears in the Azores – Portaria nº 37/2010 de 16 de abril de 2010;
- Revocation of the Regulation of line fishing in the Azores – Portaria nº 43/2009 de 27 de maio de 2009;
- Revocation of the Regulation of line fishing in the Azores – Portaria nº 50/2012 de 27 de abril de 2012;
- Revocation of the Regulation of purse seine fishing in the Azores – Portaria nº 65/2014 de 6 de outubro de 2014;
- Sale, P. F., Cowen, R. K., Danilowicz, B. S., Jones, G. P., Kritzer, J. P., Lindeman, K. C., et al. (2005). Critical science gaps impede use of no-take fishery reserves. *Trends Ecol. Evol.* 20, 74–80. doi: 10.1016/j.tree.2004.11.007;
- Silva, H.M., Pinho, M.R., 2007. Exploitation, management and conservation: Small-scale fishing on seamounts. In Pitcher, T.J., Morato T., Paul J.B., Clark, M.R., Haggan, N., and Santos R.S., (eds). *Seamounts: Ecology, Fisheries & Conservation*. Blackwell Publishing, UK, pp. 333-399;
- Silva, M. A., Machete, M., Reis, D., Santos, M., Prieto, R., Damaso, C., Pereira, J.G., et al., 2011. A review of interactions between cetaceans and fisheries in the Azores. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 21: 17–27;
- Tempera, F., Atchoi, E., Amorim, P., Gomes-Pereira, J. N., and Gonçalves, J. (2013). Atlantic Area Marine Habitats. Adding new Macaronesian Habitat Types from the Azores to the EUNIS Habitat Classification. Horta: MeshAtlantic Technical Report No. 4/2013;
- Tempera, F., Pereira, J. N., Braga Henriques, A., Porteiro, F., Morato, T., Matos, V., et al., 2012. Cataloguing deep-sea biological facies of the Azores. *Revista Invest. Mar. AZTI-Tecnalia* 19, 21–70. Vinnichenko, V. I. 1998. Russian investigations and fishery on seamounts in the Azores area. ICES Document CM1998/O: 18. 19pp.

2.2 Madeira

2.2.1 Reports

2008. Recursos Pesqueiros de Águas Profundas do Atlântico Centro-oriental: Avaliação do seu Potencial de Exploração e Difusão de Resultados (PESCPROF-3);

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Anónimo, 1980. Programa de Apoio às Pescas na Madeira – I Cruzeiro de Reconhecimento de Pesca e Oceanografia 020080779. Relat. Tec. Adm. Nac. Invest. Pescas Port. N.º3, Lisboa;

Anónimo, 1982. Programa de Apoio às Pescas na Madeira – II Cruzeiro de Reconhecimento de Pesca e Oceanografia 020170680 e 020241180. Relat. Tec. Adm. Nac. Invest. Pescas Port. N.º11, Lisboa;

Anónimo, 1984a. Programa de Apoio às Pescas na Madeira – III Cruzeiro de Reconhecimento de Pesca e Oceanografia 020330981. Relat. Tec. Adm. Nac. Invest. Pescas Port. N.º22, Lisboa;

Anónimo, 1984b. Programa de Apoio às Pescas na Madeira – IV Cruzeiro de Reconhecimento de Pesca e Oceanografia 020390582. Relat. Tec. Adm. Nac. Invest. Pescas Port. N.º25, Lisboa;

Anónimo, 1984c. Programa de Apoio às Pescas na Madeira – V Cruzeiro de Reconhecimento de Pesca e Oceanografia 020451182. Relat. Tec. Adm. Nac. Invest. Pescas Port. N.º31, Lisboa;

Barrón, E., Rivas-Carballo, R., Postigo-Mijarra, J. M., Alcalde-Olivares, C., Vieira, M., Castro, L., Pais, J., Valle-Hernández, M., 2010. The Cenozoic vegetation of the Iberian Peninsula: A synthesis. Review of Palaeobotany and Palynology, 162: 382-402.

Biscoito, M. J., 1993. An account of the shrimps of the family Pandalidae (Crustacea, Decapoda, Caridea) in Madeiran waters. Courier Forschungsinst. Senckenberg, 159: 321-325.

Biscoito, M.J., Araújo, G., Henriques, P., Martins, F., Sousa, R., Freitas, M. and Delgado, J., 2017. Biodiversity in seamounts: The Madeira-Tore and Great Meteor. BIOMETORE 5 cruise report. Bocagiana. 244: 1-9;

Biscoito, M.J., Delgado, J.M., Pinto, A.R., Abreu, A.D., Maul, G.E., Faria, G.T., Amorim, A.B., 1994. Estudo ecológico e biológico das comunidades de peixes e crustáceos decápodes bentónicos da vertente continental da Madeira. Relatório de progresso III do Projeto PMCT/C/MAR/985/90. Museu Municipal do Funchal, Funchal;

Biscoito, M.J., Delgado, J.M., González, J. A., Stefanni, S., Tuset, V. M., Isidro, E., Garcia-Mederos, A. Carvalho, D., 2011. Morphological identification of two sympatric species of Trichiuridae, *Aphanopus carbo* and *A. intermedius*, in NE Atlantic. *Cybius* 35: 19-32.

Biscoito, M.J., Pinto, A.R., Maul, G.E., Faria, G.T., Amorim, A.B., 1992. Estudo ecológico e biológico das comunidades de peixes e crustáceos decápodes bentónicos da vertente continental da Madeira. Relatório de progresso do Projeto PMCT/C/MAR/985/90. Museu Municipal do Funchal, Funchal;

Bordalo-Machado, P. and Figueiredo, I., 2009. The fishery for black scabbardfish (*Aphanopus carbo* Lowe, 1839) in the Portuguese continental slope. *Reviews in Fish Biology and Fisheries*, 19: 49-67.

Chada, T., Delgado, J.H., Sousa, R., 2006. Campanha APHANOMAD-01-PD05 – Relatório de Campanha, (Projeto PESCPROF-2 03/MAC/4.2/M9). Relatórios DBPO N.º 03/2006;

Caldeira, R. and Lekou, S., 2000. Madeira, Um Oásio no Atlântico. Uma Introdução ao Estudos Oceanográficos no Arquipélago da Madeira. Funchal, Madeira: Direção Regional de Formação Profissional. 106p.

Caldeira, R. M. A., Groom, S., Miller, P., Pilgrim, D., Nezlín, N. P., 2002. Sea-surface signatures of the island mass effect phenomena around Madeira Island, Northeast Atlantic. *Remote Sensing of Environment*, (80): 336-360.

Capelo, J., Menezes de Sequeira, M., Jardim, R., Mesquita, S., 2007. Biologia e ecologia das florestas das ilhas - Madeira. *Árvores e Florestas de Portugal: Açores e Madeira - A Floresta das Ilhas* (ed. by J. Silva),

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

pp. 81-134. Público, Comunicação Social SA, Fundação Luso Americana para o Desenvolvimento e Liga para a Protecção da Natureza.

Carvalho, D., Delgado, J.H., Biscoito, M., Freitas, M., González, J.A., Santana, J.I et al., 2006. Recursos Pesqueiros de Águas Profundas do Atlântico Centro-Oriental. Relatório técnico-científico final do projeto PESCPROF-1. Funchal, 110pp;

Carvalho, D., Delgado, J.H, Biscoito M., Freitas, M., González, J.A., Santana, J.I., Tuset, V.M., Isidro, E., Pinho, M.R., Consórcio PESCPROF, 2007. Recursos Pesqueiros de Águas Profundas do Atlântico Centro-Oriental: Alternativas à Pesca na Macaronésia. Relatório técnico-científico final do Projeto PESCPROF-2 (03MAC/4.2/M8). Funchal, 156 pp;

Chada, T., Sousa, R., Ferreira, S., Carvalho, D., Delgado, J., 2007. Campanha APHANOMAD-02-PD06. Relatório de Campanha do Projeto PESCPROF-2 (03/MAC/4.2/M9). Relatórios DBPO N.º 06/2007;

Crespo, L. C., Silva, I., Borges, P. A. V., Cardoso, P., 2014. Assessing the conservation status of the strict endemic Desertas wolfspider, *Hogna ingens* (Araneae, Lycosidae). *Journal for Nature Conservation*, 22(6): 516-524.

Delgado, J. H., Carvalho, D. S., Ferreira, S. M., Sousa, R. S., 2005. Campanha de Monitorização de Peixes Demersais no Arquipélago da Madeira (ARQMAD-04-P04). Relatório de Campanha, (Projeto ORPAM/MAC/4.2/A1). Relatórios DBPO N.º 02/05;

Delgado, J.H., Carvalho, D.S., Ferreira, S.M., Sousa, R., Chada, T., 2006. Monitorização de Peixes Demersais no Arquipélago da Madeira. Relatório Final do Projeto ORPAM/MAC/4.2/A1. Relatórios DBPO N.º 01/2006;

Delgado, J.H., Carvalho, D.S., Ferreira, S., Sousa, R., Chada, T., 2006. Campanha de Monitorização de Peixes Demersais no Arquipélago da Madeira (ARQMAD-05-P05). Relatório de Campanha do projeto ORPAM/MAC/4.2/A2. Relatórios DBPO N.º 07/2006;

Delgado, J.H., Carvalho, D., Ferreira, S., Sousa, R., Chada, T., 2007. Monitorização de Peixes Demersais no Arquipélago da Madeira. Relatórios DBPO N.º 03/2007. 70pp;

Delgado, J.H., Ferreira, S., Sousa, R., Alves A., 2005. Relatório de Campanha PARQMAR –01-05. Relatórios DBPO N.º 03/05. 12 pp;

Delgado, J.H., Ferreira, S., Sousa, R., 2006. Planeamento da Campanha MADGAMBA-01-CF06 - PESCPROF-3. Relatórios DBPO N.º 09/2006;

Delgado, J.H., Ferreira, S., Sousa, R., Alves, A., 2007. Relatório Final do Projeto PARQMAR. Relatórios DBPO N.º 05/07;

Delgado, J.H., 2007. Ictiofauna Demersal das Zonas Sublitoral e Batial Superior do Arquipélago da Madeira. Um Estudo Biológico e Ecológico. Tese de Mestrado, Universidade da Madeira, Funchal, Portugal. 169 p.

Delgado, J., Reis S., González, J. A., Isidro, E., Biscoito, M., Freitas, M., Tuset, V. M., 2013. Reproduction and growth of *Aphanopus carbo* and *A. intermedius* (Teleostei: Trichiuridae) in the northeastern Atlantic. *Journal of Applied Ichthyology*, 29: 1-7.

DSIDP, 2006. Recursos Pesqueiros de Águas Profundas do Atlântico Centro-Oriental (PESCPROF-1). Relatório técnico científico final, 110 pp.

DSIDP, 2007. Relatório do workshop de: “Avaliação de stocks insulares de *Plesionika edwardsii* em Canárias, Madeira e Açores” (PESCPROF-3, 05MAC/4.2/M11), 40 pp.

Freitas, M., Delgado, J., Isidro, E., Biscoito, M., Santana, J.I., González, J.A., Rodrigues, M., Meireles, S., Oliveira, P., Ferreira, H., López, S., Benítez, B., Sánchez, C., Otegui, M. & González, I., 2014. Livro de receitas MARPROF de mariscos e peixes de profundidade da Macaronésia. Programa de Cooperação Transnacional Madeira-Açores-Canárias, projeto MARPROF (MAC/2/M065). Funchal, 200p.

Geldmacher, J., Bogaard, P. V. D., Hoernle, K., Schmincke, H., 2000. The $40\text{Ar}/39\text{Ar}$ age dating of the Madeira Archipelago and hotspot track (eastern North Atlantic). *Geochemistry, Geophysics, Geosystems*, 1: 1-26.

Geldmacher, J., Hoernle, K., Klügel, A., Bogaard, P. v. d., Wombacher, F., Berning, B., 2006. Origin and geochemical evolution of the Madeira-Tore Rise (eastern North Atlantic). *Journal of Geophysical Research*, 111: B09206.

Góis, A.P., Vieira, A.S., Aveiro, M.J., 2009. Relatório da Campanha MADGAMBA-03-CF08-PESCPROF-3. Relatórios DBPO 2009;

Góis, A.R.P., 2012. Recolha de amostras de *Plesionika edwardsii* (Brandt, 1851) com covos flutuantes, na costa Sul da Madeira. Relatórios DBPO. 12pp;

Gomes, C., 2016. Biology of black scabbardfish (*Aphanopus carbo* Lowe, 1839) and standardization of commercial LPUE data of *Aphanopus* spp. landed in Madeira Archipelago, Portugal. (Master of Science thesis), University of Algarve, p. 126.

Gordo, L. S., 2009. Black scabbardfish (*Aphanopus carbo* Lowe, 1839) in the southern Northeast Atlantic: considerations on its fishery. *Scientia Marina*, 73S2: 11-16.

Hale, R., 2009. Interação da foca-monge (*Monachus monachus*) com as diversas artes de pesca da Região Autónoma da Madeira. Dissertação submetida à Faculdade de Ciências da Universidade do Porto para obtenção do grau de Mestre em Biologia. 111p.

ICES, 2014. Black scabbardfish stock annex: Stock specific documentation of standard assessment procedures used by ICES. ICES WKDEEP REPORT, revised by WKDEEP- 2014 / Ivone Figueiredo, 42-61.

Leite, A. M., 1988. The deep-sea fishery of the black scabbard fish *Aphanopus carbo* Lowe, 1839 in Madeira Island waters. Proceedings of the 1988 World Symposium on Fishing Gear and Fishing Vessel Design, St John's, Newfoundland, Canada, 240-243.

Marques, C. A. G., 2013. Paleobotânica da Ilha da Madeira: Inventário e Revisão da Macroflora Fóssil de São Jorge e Porto da Cruz. Tese de Mestrado, Faculdade de Ciências da Universidade de Lisboa. Portugal. 144p.

Martins, R. and Ferreira, C., 1995. Line Fishing for black scabbardfish (*Aphanopus carbo* Lowe, 1839) and other deep-water species in the Eastern Mid Atlantic to the North of Madeira. Deep-Water Fisheries of the North Atlantic Oceanic Slope. A. G. Hopper (ed.), Kluwer Academic Publishers. 323-335.

Mata, J., Fonseca, P., Prada, S., Rodrigues, D., Martins, S., Ramalho, R., Madeira, J., Cachão, M., Silva, C. M., Matias, M. J., 2013. O arquipélago da Madeira. In R. Dias, A. Araújo, P. Terrinha & J.C. Kullberg (eds) – Geologia de Portugal, Vol. II, Geologia Meso-Cenozóica de Portugal: 691-746. Escolar Editora, Lisboa.

Menezes, G., Delgado, J., Krug, H., Pinho, M. R., Silva, H. M., Carvalho, D., 1998. Design Optimisation and Implementation of Demersal Survey Cruises in the Macaronesian Archipelagos – II. Commission of the European Communities DG-XIV/C/1 - Study contract 95/095. Universidade dos Açores, Horta. 170p.

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Menezes, G., Delgado, J., Silva, H.M., 1997b. Design optimization and implementation of demersal cruise surveys in the macaronesian archipelagos – II. Interim Progress Report DG XIV/C/1 - Study contract 95/095. Arquivos do DOP, Série relatórios Internos 1/97, 30pp;

Menezes, G., Delgado, J., Krug, H., Pinho, M.R., Silva, H.M., Carvalho, D., 1998. Design optimization and implementation of demersal cruise surveys in the macaronesian archipelagos – II. Final Report DG XIV/C/1 - Study contract 95/095. Horta, Faial;

Menezes, G., Silva, H.M., Krug, H., Balguerías, E., Delgado, J., Pérez, J.G. et al., 1997a. Design optimization and implementation of demersal cruise surveys in the Macaronesian Archipelagos. Final Report DG XIV/C/1 - Study contract 94/034. Horta, Faial;

Merrett, N. R. and Haedrich, R. L., 1997. Deep-Sea Demersal Fish and Fisheries. London: Chapman-Hall. 286p.

Pires, R., Neves, H. C., Karamanlidis, A., 2008. The Critically Endangered Mediterranean monk seal *Monachus monachus* in the archipelago of Madeira: priorities for conservation. *Fauna & Flora International, Oryx*, 42(2): 278-285.

Pires, R. (2011). Lobos-Marinheiros do Arquipélago da Madeira. Serviço do Parque Natural da Madeira. Eco do Funchal, Madeira, Portugal. 60p.

Pissara, J. Cavaco, M. H., Monteiro, A. M., 1983. Caracterização oceanográfica na região da Madeira: Determinação das massas de água no “Núcleo de Água Mediterrânica”. *Boletim do Instituto de Investigação das Pescas Portuguesas*, 10: 65-80.

Pitman, W. and Talwani, M., 1972. Sea floor spreading in the North Atlantic, *Geological Society of America Bulletin*, 83(3): 619-646.

Reis, S., Sena-Carvalho, D., Delgado, J. H., Afonso-Dias, M., 2001. Historical Overview of the black scabbardfish (*Aphanopus carbo* Lowe, 1839) fishery in Madeira Island. *Deep-Sea Fisheries Symposium, NAFO SCR Doc. 01/103*, 6p.

Scientific, Technical and Economic Committee for Fisheries (STECF) – Review of an assessment of the stock of black scabbardfish (*Aphanopus spp.*) around Madeira (STECF-14-15), 2014. Publications Office of the European Union, Luxembourg, EURXXXX EN, JRC XXXX, XX pp.

Shon, S., Delgado, J. M., Morato, T., Pham, C. K., Zylich, K., Zeller, D., Pauly, D., 2015. Reconstruction of marine fisheries catches for Madeira Island, Portugal from 1950- 2010. Fisheries Centre, University of British Columbia, Vancouver, BC, V6T 1Z4, Canada. Working Paper Series, nº52. 13p.

Silveira, A. B., Madeira, J., Ramalho, R., Fonseca, P., Prada, S., 2010. Notícia Explicativa da Carta Geológica da ilha da Madeira na escala 1:50.000, Folhas A e B. Secretaria Regional do Ambiente e Recursos Naturais, Região Autónoma da Madeira e Universidade da Madeira. 47p.

Sousa, R., Henriques, P., Biscoito, M., Pinto, A.R., Delgado, J., Dellinger, T., Gouveia, L. and M. R. Pinho., 2014. Considerations on the biology of *Plesionika narval* (Fabricius, 1787) in the Northeastern Atlantic. *Turkish Journal of Fisheries and Aquatic Sciences*. 14(3);

Sousa, R., Pinho, M.R., Delgado, J., Biscoito, M., Pinto, A.R., Dellinger, T., Gouveia, L., Carvalho, D., Henriques, P., 2017. Prospective study of the fishery of the shrimp *Plesionika narval* (Fabricius, 1787) in the Northeastern Atlantic. *Brazilian Journal of Biology*. 77(3);

Sousa, R., Pinho, M. R., Delgado, J., Pinto, A. R., Biscoito, M., Dellinger, T., Carvalho, D., Henriques, P. Accepted. Abundance and population structure of *Plesionika narval* (Fabricius,1787) in the Eastern Central Atlantic. *Brazilian Journal of Biology*;

SRA, 2014. *Estratégia Marinha para a subdivisão da Madeira*. Diretiva Quadro Estratégia Marinha. Secretaria Regional do Ambiente e dos Recursos Naturais. 463p.

Vallerani, M., Martí, C., Ojamaa, P., 2017. The overview of the fisheries in Madeira was prepared to provide information for the mission of the Committee of Fisheries to Madeira in 2017 (22-25 May). European Parliament, pe 601.978. 15p.

2.2.2 Posters

Biscoito, M., Freitas, M., Araújo, R., Costa, L., Malheiro, C., Sousa, R., Chada, T. Preliminary results of a deep-sea research cruise in Madeiran waters (NE Atlantic Ocean). Apresentado no 40th European Marine Biology Symposium – Vienna, 21-25 Agosto 2005;

Carvalho, D., Biscoito, M., Delgado, J., González, J.A., Isidro, E., Lozano, I.J., Pajuelo J.G., PESCPROF Consortium. Surveying the deep marine resources of Macaronesia – The PESCPROF Project (2003-2007). Apresentado no XIV Simposio Ibérico de Estudios de Biología Marina, Barcelona, 12-15 Setembro 2006;

Delgado, J., Carvalho, D., Ferreira, S., Sousa, R., Isidro, E., Menezes, G. & Pinho, M. R. Comunidades de peixes demersais do Arquipélago da Madeira. Apresentado no VII Encontro Regional de Biólogos, Machico, 14-15 Junho 2007;

Delgado J.H., Carvalho D.M., Isidro E., Menezes G., Sousa, R. & Ferreira S. Demersal fish communities of the Madeira Archipelago slope (eastern Central Atlantic). Apresentado no 11th International Deep-sea Biology Symposium. National Oceanography Center Southampton, 09-14 Julho 2006;

González, J.A., Biscoito, M., Delgado, J., Freitas, M., Isidro, E., Lozano, I.J., Pajuelo, J.G., Pinho, M.R., Santana, J.L., Carvalho, D., PESCPROF Consortium. Surveying the deep marine resources of Macaronesia – Towards a responsible exploitation. Apresentado no XIV Simpósio Ibérico de Estudios de Biología Marina, Barcelona, 12-15 Setembro 2006;

Mafalda Freitas, Manuel Biscoito, Rosa Domínguez-Seoane, Antonio García-Mederos, José A. González; Ignacio Lozano, Gui Menezes, José A. Pérez-Peñalvo, Mário R. Pinho, Alexandra Rosa; José L. Santana; Ricardo Sousa, Dalila Carvalho & PESCPROF Consortium. Surveying the deep marine resources of Macaronesia – Sharks, rays and rabbitfishes. Apresentado no XIV Simpósio Ibérico de Estudios de Biología Marina, Barcelona, 12-15 Setembro 2006;

Manuel Biscoito, Tomás Chada, Ana L. Costa, João Delgado, Rosa Domínguez-Seoane, Mafalda Freitas, José A. González, Ignacio J. Lozano, Gui Menezes, José G. Pajuelo, Mário R. Pinho, Victor M. Tuset; José L. Santana, Ana Santos, Dalila Carvalho & PESCPROF Consortium. Surveying the deep marine resources of Macaronesia – Bony Fishes. Apresentado no XIV Simpósio Ibérico de Estudios de Biología Marina, Barcelona, 12-15 Setembro 2006;

2.3 Canaries

Arrasate-López, M., Tuset, V.M., Santana, J.L., García-Mederos, A., Ayza, O. & González, J.A., 2012. Fishing methods for sustainable shrimp fisheries in the Canary Islands (North-West Africa). *Afr. J. Mar. Sci.*, 34 (3): 331-339.

Biscoito, M., Delgado, J., González, J.A., Stefanni, S., Tuset, V.M., Isidro, E., García-Mederos A. & Carvalho, D., 2011. Morphological identification of two sympatric species of Trichiuridae, *Aphanopus carbo* and *A. intermedius*, in NE Atlantic. *Cybium*, 35 (1): 19-32.

Biscoito, M., M. Freitas, J.G. Pajuelo, R. Triay-Portella, J.I. Santana, A.L. Costa, J. Delgado, J. & González J.A., 2015. Sex-structure, depth distribution, intermoult period and reproductive pattern of the deep-sea

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

red crab *Chaceon affinis* (Brachyura, Geryonidae) in two populations in the north-eastern Atlantic. *Deep-Sea Res. I*, 95: 99-114.

Bortone, S., J. Van Tassel, A. Brito, J.M. Falcon, J. Mena & C. Bundrick, 1994. Enhancement of the nearshore fish assemblage in the Canary Islands with artificial habitats. *Bulletin of Marine Science*, 55: 602-608.

Carvalho, D., J. Delgado, M. Biscoito, M. Freitas, J.A. González, J.I. Santana, I.J. Lozano, S. Jiménez, J.G. Pajuelo, J.M. Lorenzo, E. Isidro, M.R. Pinho & Consorcio PESCPROF, 2006. Recursos Pesqueros de Aguas Profundas del Atlántico Centro-Oriental. Memoria científico-técnica final del Proyecto PESCPROF-1 (PIC Interreg III B, MAC/4.2/M12). European Union, Regional Policy, FEDER. Instituto Canario de Ciencias Marinas, Telde (Las Palmas), marzo de 2006. 126 pp.

Carvalho, D., J. Delgado, M. Biscoito, M. Freitas, J.A. González, J.I. Santana, V.M. Tuset, E. Isidro, M.R. Pinho & Consorcio PESCPROF, 2007. Recursos Pesqueros de Aguas Profundas del Atlántico Centro-Oriental: alternativas a la pesca en la Macaronesia. Memoria científico-técnica final del Proyecto PESCPROF-2 (PIC Interreg III B, 03MAC/4.2/M8). European Union, Regional Policy, FEDER. Telde (Las Palmas), abril de 2007, 154 pp.

Castro, J.J., Santiago, J.A. and Hernández-García, V., 1999. Fish associated with fish aggregation devices off the Canary Islands (Central-East Atlantic). *Scientia Marina* 63(3-4): 191-198.

Delgado, J., Reis, S., González, J.A., Isidro, E., Biscoito, M., Freitas M. & Tuset, V.M., 2013. Reproduction and growth of *Aphanopus carbo* and *A. intermedius* (Teleostei: Trichiuridae) in the northeastern Atlantic. *J. Appl. Ichthyol.*, 29 (5): 1008-1014.

González, J.A., 2018. Análisis de los principales hallazgos de la pesca experimental en aguas de Canarias, destacando las lecciones aprendidas y señalando los caminos a seguir. Informe científico-técnico para el proyecto ORFISH. Co-financiado por la DG MARE (Unión Europea) y GMR Canarias, S.A.U. Fundación Parque Científico Tecnológico de la Universidad de Las Palmas de Gran Canaria. Las Palmas de Gran Canaria: 136 pp.

González, J.A. (editor), 2008. Memoria científico-técnica final sobre el Estado de los Recursos Pesqueros de Canarias (REPESCAN). Instituto Canario de Ciencias Marinas, Agencia Canaria de Investigación, Innovación y Sociedad de la Información, Gobierno de Canarias. Telde (Las Palmas): 210 pp.

González, J.A., J. Delgado, E. Isidro, J.I. Santana, A.R. Góis, M.R. Pinho, S. Jiménez, A.M. García-Mederos, M. Arrasate-López, O. Ayza, V.M. Tuset & MARPROF Consortium, 2010. Estimating the biomass and fishing potential of the deep-water shrimp *Plesionika edwardsii* (Crustacea: Decapoda: Pandalidae) around the Macaronesian archipelagos. *Actas del XVI Simposio Ibérico de Estudios de Biología Marina*: 139. Universidad de Alicante, Alicante, 6-10 septiembre 2010;

González, J.A., Pajuelo, J.G., Triay-Portella, R., Ruiz-Díaz, R., Delgado, J., Góis A.R. & Martins, A., 2016. Latitudinal patterns in the life-history traits of three isolated Atlantic populations of the deep-water shrimp *Plesionika edwardsii* (Decapoda, Pandalidae). *Deep-Sea Res. I*, 117: 28-38;

Llanes, P., Muñoz, A., Muñoz-Martín, A. et al. *Mar Geophys Res*, 2003 24: 91. <https://doi.org/10.1007/s11001-004-1335-3>

Pajuelo J.G., José & González, José & I. Santana, José, 2010. Bycatch and incidental catch of the black scabbardfish (*Aphanopus* spp.) fishery off the Canary Islands. *Fisheries Research*. 106. 448-453. 10.1016/j.fishres.2010.09.019.

Pajuelo, J.G., Triay-Portella, R., Santana J.I. & González J.A., 2015. The community of deep-sea decapod crustaceans between 175 and 2600 m in submarine canyons of a volcanic oceanic island (central-eastern Atlantic). *Deep-Sea Res. I*, 105: 83-95.

Quiles, J.A., Rico, V., Tuset, V.M., Santana J.I. & González, J.A., 2001. Notes on the biology of *Cancer bellianus* (Brachyura, Cancridae) around the Canary Islands. *Hydrobiologia* (Paula, J.P.M., A.A.V. Flores & C.H.J.M. Franssen, eds., Advances in Decapod Crustacean Research), 449: 193-199;

Triay-Portella, R., J.G. Pajuelo & J.A. González, 2017b. Spatio-temporal variation in biomass of the deep-sea red crab *Chaceon affinis* in Gran Canaria Island (Canary Islands, Eastern-Central Atlantic). *Mar. Ecol.*, 38 (5): 1-14;

Triay-Portella, R., Ruiz-Díaz R., Pajuelo J.G. & González, J.A., 2017a. Ovarian maturity, egg development, and offspring generation of the deep-water shrimp *Plesionika edwardsii* (Decapoda, Pandalidae) from three isolated populations in the eastern North Atlantic. *Mar. Biol. Res.*, 13 (2): 174-187;

Tuset, V.M., J.A. Pérez-Peñalvo, J. Delgado, M.R. Pinho, J.I. Santana, M. Biscoito, González, J.A & Carvalho, D., 2009. Biology of the deep-water shrimp *Heterocarpus ensifer* (Caridea: Pandalidae) off the Canary, Madeira and the Azores Islands (northeastern Atlantic). *J. Crustac. Biol.*, 29 (4): 507-515.

2.4 La Réunion and Mayotte

Ah-Nième, D., 1997. Approche anthropologique d'un processus d'innovation : pêche artisanale et dispositifs de concentration de poissons à l'île de la Réunion, Mémoire de stage Ifremer PTRII/ DEA lettres et sciences sociales option anthropologie, Université de la Réunion, 50 p.

Article 16, paragraphe 2 du règlement CE N°498/2007 de la Commission du 26 mars 2007, portant modalités d'exécution du règlement (CE) n°1198/2006 du Conseil relatif au Fonds européen pour la pêche.

Association Thonière-Commission de l'Océan Indien. Projet Thonier Régional no 1 : Rapport de synthèse, http://horizon.documentation.ird.fr/exl-doc/pleins_textes/pleins_textes_6/colloques2/34167.pdf

Bertrand, G., Le Ru, L., Evano, H., 2012. Données biologiques sur les poissons démersaux profonds capturés au vire-ligne électrique en 2011 à La Réunion (campagnes du projet ANCRE-DMX). RST-DOI/2012-12. <http://archimer.ifremer.fr/doc/00089/20049/>

Bertrand & al. 2012 (ibid.)

Biais, G., Taquet, M., 1988. Projet d'implantation de Dispositifs de Concentration de Poissons autour de La Réunion. Rapport d'avancement des travaux au 1/12/89. Convention IFREMER-REGION REUNION n° DAE 1/88/22. Document IFREMER Délégation de La Réunion.

Biais, G. & Taquet, M., 1989. Dispositifs de concentration de poissons autour de l'île de La Réunion (Ocean Indien). Rapport Interne de la DRV de l'IFREMER. RIDRV-90.05-RH/La Réunion.

Biais, G., Taquet, M., 1990. Technologie des Dispositifs de Concentration de Poissons et techniques de pêche aux gros pélagiques. Compte rendu d'essais effectués pendant l'été austral 1989-90 Rapp. Int. IFREMER RIDRV-90 .58 RH/La Réunion Contrat n° 89/1210998/F. <http://archimer.ifremer.fr/doc/1990/rapport-3895.pdf>

Biais, G., Taquet, M., 1990. (Ibid.).

Biais, G., Taquet, M., 1991. Dispositifs de Concentration de Poissons à La Réunion, Équinoxe no 34 : 20-27.

Biais, G., Taquet, M., 1992. La pêche locale aux abords de la Réunion. Editions de l'Ifremer. <http://archimer.ifremer.fr/doc/00000/1455/>

Biais, G., & Taquet, M., 1992. La pêche locale aux abords de La Réunion. Repères Océan 2: 77 p.

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Conand, F., 1997. Prospections par échosondeur au voisinage des DCP à la Réunion. Doc ORSTOM/PTR II, CAN Réunion 23 p.

Conand, 2002. Marine Ecology of La Réunion: An Overview of Recent Research, *Ambio*, 31(7-8), 602-605.

CRPMEM, 2016. Ibid.

Detolle, J.P., 1996. Étude en vue d'optimiser le coût et la longévité des dispositifs de concentration de poissons de l'île de La Réunion. Approche technico-économique. Ifremer, Département des Ressources Halieutiques, Station de La Réunion. 73 p + annexes.

Fleury, P-G., Aureche, V., Le Ru, L., 2011. Evolution des captures de poissons démersaux profonds, au vire-ligne électrique, dans l'ouest de la Réunion, entre 2000 et 2011. RST-DOI- 2011-06. <http://archimer.ifremer.fr/doc/00050/16100/>

Fleury, P-G., Cadet, C., Turban, S., Le Bonniec S., 2012. Suivi des pêches à pied traditionnelles et de la chasse sous-marine de 2008 à 2011 dans la Réserve Naturelle Marine de La Réunion. RST-DOI-2012-03. <http://archimer.ifremer.fr/doc/00083/19421/>

Fleury, P-G., Evano, H., Le Ru, L., 2012. Campagne de prospection de poissons démersaux profonds réalisée autour de La Réunion en 2011. RST-DOI- 2012-09. <http://archimer.ifremer.fr/doc/00089/20048/>

Fleury, P-G., Evano, H., Le Ru, L., Aureche, V., 2012. Synthèse de l'étude et des campagnes à la mer 2011 sur l'exploitation aux vire-lignes des espèces démersales profondes autour de La Réunion. RST.Délégation Océan Indien /2012-13. <http://doi.org/10.13155/20902>

Guyomard, D., Hohmann, S., Fleury, P.G. & Bissery, C. 2012. Etude technico-économique sur les DCP côtiers ancrés de La Réunion. Rapport CRPMEM La Réunion 2012-01, 204 p. + Annexes. <http://archimer.ifremer.fr/doc/00109/22027/>

Herfaut Johanna, 2005. Prospection des ressources côtières démersales profondes autour de Mayotte. Résultats et conclusion des campagnes de pêche expérimentales de juillet 2004 à juin 2005. Etude INENV commandée par le Service des Pêches de la Direction de l'Agriculture et de la Forêt de Mayotte. 37p.;

Hoareau, T. & Conand, F., 2000. Ressources démersales profondes autour de La Réunion. Résumé documentaire sur les poissons exploitables. Etude commandée par le Comité des Pêches de la Réunion. Financement IFOP/Conseil Général de La Réunion : 39 p.

Jaquemet, S., Aumond, Y., Sadeyen, A., Trystram, C., Huet, J., Roos, D., 2015. A first investigation of the trophic ecology of deep-sea fishes exploited by the artisanal fishery of Reunion Island. 9th WIOMSA Scientific Symposium. 26th October – 31st October 2015, South Africa.

Le Gall, J-Y., Cayre, P, Taquet, M., 2000. Pêche thonière et dispositifs de concentration de poissons. Actes de colloque Ifremer n°28, 2000. ISBN-13 978-2-84433-047-5 ISBN-10 978-2-84433-047-5;

Leclerc, F. & Esposito, C., 2013. Contribution à l'étude des paramètres biologiques et allométriques pour une gestion durable des stocks de poissons d'intérêt commercial à La Réunion, Rapport de stage Université de la Réunion, 90 p

Mahe, K., Aumond, Y., Rabhi, K., Elleboode, R., Bellamy, E., Huet, J., Gault, M., Roos, D., 2017. Relationship between somatic growth and otolith growth: a case study of the ornate jobfish *Pristipomoides argyrogrammicus* from the coast of Réunion (SW Indian Ocean). *African Journal Of Marine Science*, 39(2), 145-151. <http://doi.org/10.2989/1814232X.2017.1327886>

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Mahe, K., Rabhi, K., Bellamy, E., Elleboode, R., Aumond, Y., Huet, J., Cresson, P., Roos, D., 2016. Growth of the oblique-banded grouper (*Epinephelus radiatus*) on the coasts of Reunion Island (SW Indian Ocean). *Cybiu*, 40(1), 61-65. Open Access version: <http://archimer.ifremer.fr/doc/00313/42385/>

Mahe, K., Rabhi, K., Bellamy, E., Elleboode, R., Aumond, Y., Huet, J., Roos, D., 2016. Comparison between the opercular bones, the scales and the otoliths to investigate the growth of the brilliant pomfret (*Eumegistus illustris*) off the coast of Reunion Island (SW Indian Ocean). *International Journal of Fisheries and Aquatic Studies*, 4(1 Part C), 176-179. Open Access version: <http://archimer.ifremer.fr/doc/00307/41861/>

Marsac, F., Cayré, P. & Conand, F., 1995. Analysis of small-scale movements of yellowfin tuna around fish aggregating devices (FADs) using sonic tagging. Paper presented at the IPTP Expert Consultation on Indian Ocean Tunas, 25–29 September 1995, Colombo, Sri Lanka. Doc. no. TWS/95/2/10. FAO/IPTP, Colombo, Sri Lanka. 20p.

Marsac, F., Cayré, P., 1998. Telemetry applied to behaviour analysis of yellowfin tuna (*Thunnus albacares*, Bonnaterre, 1788) movements in a network of fish aggregating devices, *Hydrobiologia* 371/372: 155–171.

Marsac, F., Stequert, B., 1986. La pêche de surface des thonidés tropicaux dans l'océan Indien. FAO, doc. Tech. Pêches (282), 213 p. http://horizon.documentation.ird.fr/exl-doc/pleins_textes/divers16-03/010006232.pdf

Pernak, M. & Rodriguez P., 2012. Etude de la répartition spatio-temporelle des poissons pélagiques à proximité des DCP ancrés de La Réunion, mémoire de Master, Université de la Réunion, Ifremer, CRPMEM La Réunion, 80 p.

Poisson, F., Taquet, M., 2000. French swordfish longline fishery in south west Indian Ocean: preliminary results from the PPR program. IOTC Proceedings, 2000, n° 3, pp 169-201 (WPB00-06). <http://archimer.ifremer.fr/doc/00130/24080/>

Poisson, F., Taquet, M., 2001. L'espadon : de la recherche à l'exploitation durable. IFREMER 98/1212978/F.;

Rabhi, K., Bellamy, E., Elleboode, R., Aumond, Y., Huet, J., Roos, D., Mahe, K., 2015. Projet DMX2 - Volet Croissance. <http://archimer.ifremer.fr/doc/00347/45866/>

Rabhi, K., Bellamy, E., Elleboode, R., Roos, D., Aumond, Y., Huet, J., Mahe, K., 2015. Etude de la croissance des espèces profondes de l'île de la Réunion. 6èmes rencontres de l'ichtyologie en France (RIF 2015), 24-27 mars 2015, Paris. <http://archimer.ifremer.fr/doc/00256/36687/>

Rey H., 1998. Dispositifs de concentration de poissons (DCP) dans les pays de la Commission de l'océan Indien (COI) : innovation et révolution dans les pratiques de pêche. In : Cayré Patrice (ed.), Le Gall J.Y. Le thon : enjeux et stratégies pour l'océan Indien. Paris : ORSTOM, 313-334. (Colloques et Séminaires). Conférence Internationale Thonière de Maurice, Port Louis (MUS), 1996/11/27-29. ISBN 2-7099-1417-4. http://horizon.documentation.ird.fr/exl-doc/pleins_textes/pleins_textes_7/divers2/010016103.pdf

Roos, D., Aumond, Y., Huet, J., Bruchon, F. 2015. Projet ANCRE-DMX2 : Indicateurs biologiques et écologiques pour une gestion durable des stocks de poissons DéMersauX profonds (100–700 m) d'intérêt halieutique à La Réunion. RST/RBE-DOI/2015-11. <http://doi.org/10.13155/45812> (campagnes du projet ANCRE-DMX). RST-DOI/2012-12. <http://archimer.ifremer.fr/doc/00089/20049/>

Roos, D., Tessier, E., Guyomard, D., 1998. Evolution de l'activité halieutique à La Réunion de 1990 à 1996. Rapport scientifique et technique DRV/RH/RST/98-14: 67 p.

Roos, D., Tessier, E., Berthier, P., Berthier, L., 2000. Les métiers de la pêche à La Réunion (océan Indien): description et évolution des techniques de pêche sur les dispositifs de concentration de poissons (DCP). Pêche thonière et dispositifs de concentration de poissons, Caribbean-Martinique, 15-19 Oct 1999;

Roos, D., Tessier, E., Taquet, M., 2001. Prospection des ressources côtières démersales profondes autour de La Réunion. Analyse des données des campagnes à la mer réalisées du 23/02/2000 au 28/07/2000. Rapport de synthèse des travaux confiés par le CRPMEM de La Réunion à l'Ifremer Délégation Océan Indien. RST-DOI/2001-01. <http://archimer.ifremer.fr/doc/00410/52117/>

Roullot, J., Venkatasmai, A., 1988. Captures de grands pélagiques autour des Dispositifs de Concentration de poissons à l'île Maurice. Doc FAO, TWS/88/65. Expert consultation on the stock assesment of tunas in the Indian Ocean. Maurice (22-27/6/88).

Roullot, J., Venkatasmai, A., Soondron, S., 1988. Les trois premières années d'exploitation des Dispositifs de Concentration de Poissons à l'île Maurice. Rapport technique FADS Maurice 3011 1188.86 p.

Tessier E., 1996. Elaboration d'un système de suivi des statistiques de pêche pour la Réunion. Doc. Scien. IFREMER/PTRII - CAN Réunion : 27 p. + annexes

Tessier, E. et Poisson, F., 1997. Bilan sur la mise en place d'un système de récolte de données sur la pêche artisanale sur DCP. Document scientifique N°34 du Projet Thonier Régional II, Ifremer, CAN-Réunion, Action 1-Statistiques thonières. 48 p.

Tessier, E., Poisson, F., 2000. Pêche artisanale sur DCP et pêche palangrière à la Réunion : antagonisme ou complémentarité ? Pêche thonière et dispositifs de concentration de poissons, Caribbean-Martinique, 15-19 Oct 1999. <http://archimer.ifremer.fr/doc/00042/15319/>

Tessier, E., Rey-Valette, H., Ah-Nieme; D., Bargain; R., Venkatasamy; A, Wendling; B., 2000. Systèmes halieutiques et DCP dans l'océan Indien : une revue de la diversité des trajectoires et des résultats en termes d'intégration et de durabilité. Pêche thonière et dispositifs de concentration de poissons, Caribbean-Martinique, 15-19 Oct 1999 15-19 octobre 1999;

Trystram, C., Roos, D., Guyomard, D., Jaquemet, S., 2015. Mechanisms of trophic partitioning within two fish communities associated with a tropical oceanic island. Western Indian Ocean Journal of Marine Science, 14(1-2), 93-111. Open Access version: <http://archimer.ifremer.fr/doc/00353/46440/>

2.5 Guadeloupe, Martinique and Saint-Marteen

Anonymous, 2004. Software FADs. Report from Ifremer TMSI/TP et RED/HA Brest et DRV/RH Martinique et Réunion : 102 p.

Angelelli, P. et Reynal, L., 2007. Systèmes de gestion de DCP et leur impact sur le développement durable de la pêche. In Report of and papers presented at the second meeting of the WECAFC Ad Hoc Working Group on the Development of Sustainable Moored Fish Aggregating Device Fishing in the Lesser Antilles. Bouillante, Guadeloupe, 5–10 July 2004. Vol. 797: 264-269.

Archives of the Directorate of the Sea

Battaglia, A., Dhellemmes, R., Guillou, A., Lagin, A., Reynal, L., et Sacchi, J., 1989. Les ressources des fonds de 100 à 300 m autour de la Martinique. Rapport Ifremer DRV-RH/Le Robert Martinique, 30 p.

Battaglia, A., Guillou, A., Lorange, P., et Reynal, L., 1989. Développement de la pêche martiniquaise. Mise en valeur des ressources démersales : des bancs du nord de la Guadeloupe et entre 100 et 300 m de

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

profondeur autour de la Martinique. Rapport Ifremer-RH/Le Robert Martinique, 21 p.
<http://archimer.ifremer.fr/doc/00069/18013/15541.pdf>

Blanchet, G., Gobert, B., Guérédrat, J-A., 2002. La pêche aux Antilles Martinique et Guadeloupe. IRD Editions, Paris 2002, 299 p.

Cowen, R.K., Paris, C.B., Srinivasan, A., 2006. Scaling of connectivity in marine populations. *Science* 311, pp 522-527 (2006).

CRFM, 2013. Report of the CRFM - JICA CARIFICO / WECAFC - IFREMER MAGDELESA Workshop on FAD Fishery Management, 09 - 11 December 2013, St. Vincent and the Grenadines. CRFM Technical & Advisory Document, No. 2013 / 9. 42p.

CRFM. 2015. Draft Sub-Regional Management Plan for FAD Fisheries in the Eastern Caribbean (Stakeholder Working Document). CRFM Technical & Advisory Document 2015/05. 94p.

Diaz, N., Druault-Aubin, V. et Gervain, P., 2001. Optimisation de l'exploitation des ressources innovantes en Guadeloupe (ressources profondes et DCP). Présentation de la méthodologie. Rapport IRPM, 38 p

Diaz, N., Gervain, P., et Druault-Aubin, V., 2002. Optimisation de l'exploitation des ressources nouvelles en Guadeloupe (ressources profondes et DCP). Rapport final. Rapport IRPM, 159 p.

Diaz N., Gervain P., Druault-Aubin V., 2003. Premiers résultats de pêches expérimentales de custacés profonds en Guadeloupe. Rapport IRPM, 14 p. ;

Diaz N., P. Gervain et V. Druault-Aubin, 2002. Optimisation de l'exploitation des ressources nouvelles en Guadeloupe (ressources profondes et DCP). Rapport final. Rapport IRPM, 159 p.

Dromer C., 2012. Vertical Jig fishing on FADs: A selective technique for blackfin tuna valorization? Technical paper of the MAGDELESA project, English version 15 p.

Dromer C., 2012. La pêche verticale au jig sous les DCP : une technique selective pour valoriser le thon noir ? Document technique à l'attention des pêcheurs professionnels, version française, 15 p. ;

Dromer, C., Eugène, S., Régina, F., Reynal, L., Etienne, M., Mathieu, H., Pau, C., 2015. Etude de la qualité des produits de la pêche associée aux DCP ancres. Projet MAGDELESA. R.INT.RBE/BIODIVENV 2015-2, 123p.

Eugene S., Andrews, C., Dromer, C., Ishida, M. and Mohammed, E. 2015. Manual of Best Practices in Fisheries that use Fish Aggregating Devices: Maintaining Good Quality of FAD-Caught Fish: From the point of capture to the point of sale. CRFM Special Publication No. 6, Vol. II. 21pp.
http://crfm.net/~uwohxjxf/images/FAD_Manual_-_Volume_II_final_version_for_1st_CRFM_online_Publication_30Oct15_1_1.pdf

FAO Western Central Atlantic Fishery Commission. National reports and technical papers presented at the first meeting of the WECAFC Ad Hoc Working Group on the Development of Sustainable Moored Fish Aggregating Device Fishing in the Lesser Antilles. Le Robert, Martinique, 8-11 October 2001. *FAO Fisheries Report* No 683, Suppl, Rome, FAO. 2002. 295 p. ;

FAO Western Central Atlantic Fishery Commission. Report of and papers presented at the second meeting of the WECAFC Ad Hoc Working Group on the Development of Sustainable Moored Fish Aggregating Device Fishing in the Lesser Antilles. Bouillante, Guadeloupe, 5-10 July 2004. *FAO Fisheries Report*. No. 797. Rome, FAO. 2007. 274p. ;

Farrugio, H. et Saint-Felix, 1975. Etude des fonds de pêche du littoral atlantique martiniquais. Ressources, exploitation, perspectives. *Science et Pêche. Bull. Inst. Pêches marit.* n° 251, octobre 1975. ;

François-Lubin, V., 1995. Structuration et modernisation de la pêche en Guadeloupe. Recherche de Stocks inexploités ou sous-exploités. Les stocks de crustacés profonds de la Guadeloupe : une nouvelle ressource pour la pêche ? Rapport de synthèse IRPM. ;

François-Lubin, V. et Diaz, N., 1995. Structuration et modernisation de la pêche en Guadeloupe. Recherche de Stocks inexploités ou sous-exploités. -Les stocks de crustacés profonds de la Guadeloupe : une nouvelle ressource pour la pêche ? – Tentatives de diversification des pêches en Guadeloupe expérimentation des palangres profondes : 1ère partie : la palangre à requins. 2ème partie : la palangre profonde portugaise. Rapport de synthèse IRPM.

Gervain, P., Diaz, N., 2002. Le DCP Polka bicéphale : présentation d'un prototype de DCP ancré et premiers résultats obtenus. In First meeting of the WECAFC ad hoc working group on the development of sustainable moored fish aggregating device fishing in the Lesser Antilles, Le Robert, Martinique, 8-11 octobre 2001. FAO Fisheries Report 683 supplement, 249-259.

Gervain, P., Diaz, N. et Druault-Aubin, V., 2002. Optimisation de l'exploitation des ressources nouvelles en Guadeloupe (ressources profondes et DCP). Catalogue des espèces. Rapport IRPM, 110 p.

Gervain, P., Dromer C. and Reynal, L., 2012. MAGDELESA FADs Description and installation procedures. Report Ifremer of the MAGDELESA project, 29 P.

Gervain, P., Reynal, L., Defoe, J., Ishida, M., and Mohammed, E. 2015. Manual of Best Practices in Fisheries that use Fish Aggregating Devices: FAD Design, Construction and Deployment. CRFM Special Publication No. 6. Vol. I. 52 pp.

Gervain, P., Reynal, L., Defoe, J., Ishida, M. and Mohammed, E., 2015. Manual of Best Practices in Fisheries that use Moored Fish Aggregating Devices: FAD Design, Construction and Deployment. CRFM Special Publication No. 6. Vol. I. 55 pp.

Guillou, A., 1989 - Ressources démersales du talus insulaire de la Martinique. Rapport d'étude, Contrat de Plan État/Région Martinique 1 984- 1 988. Rapp. int. Ifremer. RI DRV 89-037. 121 p.

Guillou, A., Lagin, A. and Murray, P., 1996. Observations réalisées sur la biologie et la pêche du « gros yeux» *Etelis oculatus* Val. aux Petites Antilles de 1982 à 1992. Doc. Sci. Pôle Caraïbe 33, 68 p.

Guillou, A. et Lagin, A., 1997. Engins et techniques de pêche de la Martinique. Rapport RI-DRV/RH/RST/97-10, 218 p. <https://archimer.ifremer.fr/doc/1997/rapport-1120.pdf>

Guyader, O., Frangoudes, K., Timor, J., Reynal, L., Dromer, C., 2015. Socio-économie et gouvernance des DCP ancrés dans les Antilles françaises, Rapport final du projet Interreg Caraïbes Magdelesa, 150 p.

Guyader, O., Robert, B., Reynal, L., 2017. Assessing the number of moored fishing aggregating devices through aerial surveys: A case study from Guadeloupe. Fisheries Research, 185, 73-82. Publisher's official version: <http://doi.org/10.1016/j.fishres.2016.10.003>, Open Access version: <http://archimer.ifremer.fr/doc/00355/46605/>

Le Gall, J.-Y., Cayré, P., Taquet, M., (eds), 2000. Pêche thonière et dispositifs de concentration de poissons. Ed. Ifremer, Actes Colloq., 28, 688 p. http://www.magdelesa.eu/content/download/50812/721018/file/actes_colloques_DCP_1999.pdf?version=3. These proceedings are complemented by a thematic issue of the journal Aquatic Living Resources: "Mechanisms and effects of the aggregation of tuna by Fish Aggregating Devices (FADs)". Aquat. Living Resour., 2000, 13(4), 181-262.

Le recensement de la population – INSEE 2015 : <https://www.insee.fr/fr/statistiques/3292622?sommaire=3292701>

Task 2.2 Desktop study to collate of existing technical information

Deliverable #9

Le Roy, Y., 2014. Sécurité et conditions de travail à bord des embarcations de pêche artisanale utilisant des dispositifs concentrateurs de poissons "ancrés" (DCP-A) aux petites Antilles. Institut maritime de prévention, Lorient (France), 139 p.

Le Roy, Y., Reynal, L., (et al.). under press. Manual of Best Practices in Fisheries that use Moored Fish Aggregating Devices: Safety and working conditions onboard fishing vessels using FAD. CRFM Special Publication No. 6. Vol. IV. 18 pp.

Lerique, P., 2010. Exception antillaises et réglementation nationale en matière de sécurité maritime., Mémoire OC2CIAAM, 81 p.

Lorance, P. et Huet, J., 1988. Evaluation des ressources démersales potentielles des bancs de Saint-Barthelemy et Saint-Martin. Rapport Ifremer DRV/RH n° 88.003, 147 p.

Lorance, P., 1988. La ciguatoxicité des poissons sur les bancs de Saint-Barthelemy, Saint-Martin et Anguilla. Doc. Sci. Pôle Caraïbe 33, n° 15, 35 p.

Lorance, P., 1989. Ressources démersales et description des pêcheries des bancs de Saint-Martin et Saint-Barthelemy. Rapport Ifremer DRV-89.039 RH/Martinique, 75 p. <http://archimer.ifremer.fr/doc/00419/53029/53963.pdf>

Mathieu, H., Reynal, L., Magloire, A. and Guyader, O., 2013. Does FAD deployment have a real effect on fishing redeployment towards offshore resources? Proceedings of the 66th Gulf and Caribbean Fisheries Institute, November 4–8, 2013, Corpus Christi, Texas, USA, 511–517.

National reports and technical papers presented at the First Meeting of the WECAFC Ad Hoc Working Group on the Development of Sustainable Moored Fish Aggregating Device Fishing in the Lesser Antilles. Le Robert, Martinique, 8-11 October 2001. FAO Fisheries Report No. 683, Suppl. Rome, FAO. 2002. 295p.

Pau, C., 2015. Information provided during a public workshop at the Institute of Sport, Martinique 2018

Paulmier, G., 1993. Crustacés profonds capturés aux casiers aux Antilles françaises. Rapport Ifremer DRV-RH n° 93.001, 69 p. <http://archimer.ifremer.fr/doc/1993/rapport-992.pdf>

Paulmier, G. et Gervain, P., 1994. Pêches expérimentales des crustacés profonds dans les eaux de la Martinique (Pandalidae, Nephropidada). Prospections, rendements et biologie des espèces. Rapport IFREMER RI DRV 94-04, 72 p. <http://archimer.ifremer.fr/doc/1994/rapport-1540.pdf>

Rapport de la dixième session de la Commission des pêches pour l'Atlantique Centre-Ouest et de la septième session du Comité pour le développement et l'aménagement des pêches dans les Petites Antilles. Bridgetown, Barbade, 24-27 octobre 2001.

Report of and papers presented at the second meeting of the WECAFC Ad Hoc Working Group on the Development of Sustainable Moored Fish Aggregating Device Fishing in the Lesser Antilles. Bouillante, Guadeloupe, 5–10 July 2004. FAO Fisheries Report. No. 797. Rome, FAO. 2007. 274p.

Reynal, L. et Doray, M., 2002. Effets potentiels du développement de la pêche associée aux DCP ancrés dans les Petites Antilles sur les ressources de grands poissons pélagiques. In FAO Western Central Atlantic Fishery Commission. National reports and technical papers presented at the first meeting of the WECAFC Ad Hoc Working Group on the Development of Sustainable Moored Fish Aggregating Device Fishing in the Lesser Antilles. Le Robert, Martinique, 8-11 October 2001. FAO Fisheries Report No 683, Suppl, Rome, FAO. 2002. 295 p. <https://books.google.fr/books?id=U0ur0ZYsOI4C&printsec=frontcover&hl=fr#v=onepage&q&f=false>

Reynal, L., Dromer, C., Eugène, F., Frangoudes, K., Gervain P., Guyader, O., Le Roy, Y., Mathieu, H., Pau, C., Regina, F., Thouard, E., Magloire, A., Archibald, M., Cruickshank-Howard, J., Diaz, N., Ishida, M., Lay,

M., Le Quellec, J., Medar, P., Mohammed, E., Moran, M., Saddler, K., Theophile, D., Volny-Anne, C, 2015. Rapport de la réunion finale du projet MAGDELESA. R.INT.RBE/BIODIVENV 2015-1, 202 p.

Reynal, L., Guyader, O., Pau, C., Mathieu, H. and Dromer, C., 2014. Different means contributing to anchored FAD's fishing selectivity in the Lesser Antilles. Collect. Vol. Sci. Pap. ICCAT, 71(5): 2297-2301 (2015). https://www.iccat.int/Documents/CVSP/CV071_2015/n_5/CV071052297.pdf

Reynal, L., Pau, C., Dromer, C., Mathieu, H., Guyader, O., 2015. Pêche et biologie des espèces agrégées autour des DCP ancrés. Rapport final du projet Interreg Caraïbes Magdelesa, 221 p.

Reynal, L., Van Buurt, C., Taquet, M., 2000. Perspectives de développement des DCP ancrés dans les Petites Antilles. L'exemple de trois îles : Guadeloupe, Martinique et Curaçao. In Le Gall J.Y, Cayré R, Taquet M. (éd.) : Pêche thonière et dispositifs de concentration de poissons, actes colloq. Ifremer 28 : 36-54.

Sacchi, J., Lagin, A., Chaudemar, V., Langlais, C., 1981. La pêche des espèces pélagiques aux Antilles françaises. Etat actuel et perspectives de développement. Science et Pêche, Bull. Inst. Pêches marit., 312 : 1-15.

Saint-Felix, C., 1979. Les fonds de pêche sur la bordure caraïbe de la Martinique. Exploitation actuelle, première prospection. Science et Pêche. Bull. Inst. Pêches marit. n° 289, mars 1979. ;

SATEC Martinique, 1976. Secteur de la pêche. Résumé des actions menées de 1958 à 1969 en Martinique par la SATEC. Rapport, 76 p.

Taquet, M., Gervain, P. et Lagin, A., 1998. Récupération de FADs perdus à 2000 m de profondeur. CPS Bull. 3, p 30 – 35.

Wolf, R.S. and Rathjen, W.F., 1974. Exploratory fishing in the Caribbean. Marine Fisheries Review 36(9) :1-7.

2.6 French Guiana

No fishing experiences known