

Appendix 4 – Selection of research products and activities

(Please provide a selection of the unit or team/theme scientific production and activities)

EVALUATION CAMPAIGN 2018-2019

GROUP E

Name of the unit / the team / the theme: Unité Halieutique de Manche – Mer du Nord
Acronym: HMMN

Head of the unit / Team leader / Theme leader for the current contract: Paul MARCHAL

Head of the unit / Team leader / Theme leader for the next contract: Paul MARCHAL

Please, list the unit's/team's scientific outputs and activities (see the instructions in the self assessment document and see also the "Guide des activités et produits de recherche" of the scientific domain, on line - or soon to be on line - on the Hcéres website).

The unit is required to prepare a complete list of outputs to be handled to the expert committee upon request.

Please, make a separate list of outputs and activities for staff recruited during the period under evaluation.

Please stick to the document frame, and delete all text in italics.

I - SCIENTIFIC OUTPUTS AND ACTIVITIES, ACADEMIC REPUTATION AND APPEAL

1- Articles

The **top 20% articles** (i.e., the most representative in terms of results and HMMN contribution) are highlighted in yellow; the remaining 80% articles are highlighted in grey.

Scientific articles [Peer-reviewed, indexed in WoS]

- ACL001 [Th3]** Alemany Juliette, Rivot Etienne, Foucher Eric, Vigneau Joel, Robin Jean-Paul (2017). A Bayesian two-stage biomass model for stock assessment of data-limited species: An application to cuttlefish (*Sepia officinalis*) in the English Channel. *Fisheries Research*, 191, 131-143. Publisher's official version : <http://doi.org/10.1016/j.fishres.2017.03.010> , Open Access version : <http://archimer.ifremer.fr/doc/00376/48766/>
- ACL002 [Th2]** Anneville Orlane, Vogel Camille, Lobry Jeremy, Guillard Jean (2017). Fish communities in the Anthropocene: detecting drivers of changes in the deep peri-alpine Lake Geneva. *Inland Waters*, 7(1), 65-76. <http://doi.org/10.1080/20442041.2017.1294350>
- ACL003 [Th2]** Auber Arnaud, Gohin Francis, Goascoz Nicolas, Schlaich Ivan (2017). Decline of cold-water fish species in the Bay of Somme (English Channel, France) in response to ocean warming. *Estuarine Coastal And Shelf Science*, 189, 189-202. Publisher's official version : <http://doi.org/10.1016/j.ecss.2017.03.010> , Open Access version : <http://archimer.ifremer.fr/doc/00374/48551/>
- ACL004 [Th2]** Auber Arnaud, Travers-Trolet Morgane, Villanueva Ching-Maria, Ernande Bruno (2015). Regime Shift in an Exploited Fish Community Related to Natural Climate Oscillations. *Plos One*, 10(7), -. Publisher's official version : <http://doi.org/10.1371/journal.pone.0129883> , Open Access version : <http://archimer.ifremer.fr/doc/00273/38466/>
- ACL005 [Th2]** Auber Arnaud, Travers-Trolet Morgane, Villanueva Ching-Maria, Ernande Bruno (2017). A new application of principal response curves for summarizing abrupt and cyclic shifts of communities over space. *Ecosphere*, 8(12), e02023 (13p.). Publisher's official version : <http://doi.org/10.1002/ecs2.2023> , Open Access version : <http://archimer.ifremer.fr/doc/00413/52478/>
- ACL006 [Th1]** Barrios Alexander, Ernande Bruno, Mahe Kelig, Trenkel Verena, Rochet Marie-Joelle (2017). Utility of mixed effects models to inform the stock structure of whiting in the Northeast Atlantic Ocean. *Fisheries Research*, 190, 132-139. Publisher's official version : <http://doi.org/10.1016/j.fishres.2017.02.005> , Open Access version : <http://archimer.ifremer.fr/doc/00373/48415/>
- ACL007 [Th3]** Batsleer J., Marchal Paul, Vaz Sandrine, Vermard Youen, Rijnsdorp A. D., Poos J. J. (2018). Exploring habitat credits to manage the benthic impact in a mixed fishery. *Marine Ecology Progress Series*, 586, 167-179. <http://doi.org/10.3354/meps12392>
- ACL008 [Th3]** Batsleer Jurgen, Poos J. J., Marchal Paul, Vermard Youen, Rijnsdorp A. D. (2013). Mixed fisheries management: protecting the weakest link. *Marine Ecology Progress Series*, 479, 177-190. Publisher's official version : <http://doi.org/10.3354/meps10203> , Open Access version : <http://archimer.ifremer.fr/doc/00137/24781/>
- ACL009 [Th1]** Benzinou Abdesslam, Carbini Sebastien, Nasreddine Kamal, Elleboode Romain, Mahe Kelig (2013). Discriminating stocks of striped red mullet (*Mullus surmuletus*) in the Northeast European seas using three automatic shape classification methods. *Fisheries Research*, 143, 153-160. <http://doi.org/10.1016/j.fishres.2013.01.015>
- ACL010 [Th2]** Bird Christopher S., Verissimo Ana, Magozzi Sarah, Abrantes Katya G., Aguilar Alex, Al-Reasi Hassan, Barnett Adam, Bethea Dana M., Biais Gerard, Borrell Asuncion, Bouchoucha Marc, Boyle Mariah, Brooks Edward J., Brunnschweiler Juerg, Cresson Pierre, *Nature Ecology & Evolution*, 2(2), 299-305. <http://doi.org/10.1038/s41559-017-0432-z>
- ACL011 [Th1]** Blay Carole, Parrad Sophie, Cabral Philippe, Aiho Vaite, Ky Chin-Long (2016). Correlations between cultured pearl size parameters and PIF-177 biomarker expression in *Pinctada margaritifera* families reared in two contrasting environments. *Estuarine Coastal And Shelf Science*, 182(Part.B), 254-260. <http://doi.org/10.1016/j.ecss.2016.05.020>
- ACL012 [Th1]** Boudinar A. S., Chaoui L., Mahe Kelig, Cachera M., Kara M. H. (2015). Habitat discrimination of

big-scale sand smelt *Atherina boyeri* Risso, 1810 (Atheriniformes: Atherinidae) in eastern Algeria using somatic morphology and otolith shape. *Italian Journal Of Zoology*, 82(3), 446-453. Publisher's official version : <http://doi.org/10.1080/11250003.2015.1051139> , Open Access version : <http://archimer.ifremer.fr/doc/00270/38079/>

ACL013 [Th2] Bourdaud Pierre, Gascuel Didier, Bentorcha Abdelkrim, Brind'Amour Anik (2016). New trophic indicators and target values for an ecosystem-based management of fisheries. *Ecological Indicators*, 61, 588-601. <http://doi.org/10.1016/j.ecolind.2015.10.010>

ACL014 [Th1] Bourdaud Pierre, Travers-Trolet Morgane, Vermard Youen, Cormon Xochitl, Marchal Paul (2017). Inferring the annual, seasonal, and spatial distributions of marine species from complementary research and commercial vessels' catch rates. *Ices Journal Of Marine Science*, 74(9), 2415-2426. Publisher's official version : <http://doi.org/10.1093/icesjms/fsx092> , Open Access version : <http://archimer.ifremer.fr/doc/00387/49805/>

ACL015 [Th2] Brewster J. D., Giraldo Carolina, Choy E. S., Macphee S. A., Hoover C., Lynn B., Mcnicholl D. G., Majewski A., Rosenberg B., Power M., Reist J. D., Loseto L. L. (2018). A comparison of the trophic ecology of Beaufort Sea Gadidae using fatty acids and stable isotopes. *Polar Biology*, 41(1), 149-162. <http://doi.org/10.1007/s00300-017-2178-0>

ACL016 [Th2] Brind'Amour Anik, Laffargue Pascal, Morin Jocelyne, Vaz Sandrine, Foveau Aurelie, Le Bris Herve (2014). Morphospecies and taxonomic sufficiency of benthic megafauna in scientific bottom trawl surveys. *Continental Shelf Research*, 72, 1-9. Publisher's official version : <http://doi.org/10.1016/j.csr.2013.10.015> , Open Access version : <http://archimer.ifremer.fr/doc/00162/27309/>

ACL017 [Th1] Brunel Thomas, Ernande Bruno, Mollet Fabian M., Rijnsdorp Adriaan D. (2013). Estimating age at maturation and energy-based life-history traits from individual growth trajectories with nonlinear mixed-effects models. *Oecologia*, 172(3), 631-643. Publisher's official version : <http://doi.org/10.1007/s00442-012-2527-1> , Open Access version : <http://archimer.ifremer.fr/doc/00124/23537/>

ACL018 [Th2] Cachera Marie, Ernande Bruno, Villanueva Ching-Maria, Lefebvre Sebastien (2017). Individual diet variation in a marine fish assemblage: Optimal Foraging Theory, Niche Variation Hypothesis and functional identity. *Journal Of Sea Research*, 120, 60-71. Publisher's official version : <http://doi.org/10.1016/j.seares.2016.08.004> , Open Access version : <http://archimer.ifremer.fr/doc/00349/45986/>

ACL019 [Th1] Cachot Jerome, Cherel Yan, Larcher Thibaut, Pfohl-Leszkowicz Annie, Laroche Jean, Quiniou Louis, Morin Jocelyne, Schmitz Julien, Burgeot Thierry, Pottier Didier (2013). Histopathological lesions and DNA adducts in the liver of European flounder (*Platichthys flesus*) collected in the Seine estuary versus two reference estuarine systems on the French Atlantic coast. *Environmental Science And Pollution Research*, 20(2), 723-737. Publisher's official version : <http://doi.org/10.1007/s11356-012-1287-0> , Open Access version : <http://archimer.ifremer.fr/doc/00125/23576/>

ACL020 [Th1] Cadiz Laura, Ernande Bruno, Quazuguel Patrick, Servili Arianna, Zambonino Jose-Luis, Mazurais David (2018). Moderate hypoxia but not warming conditions at larval stage induces adverse carry-over effects on hypoxia tolerance of European sea bass (*Dicentrarchus labrax*) juveniles. *Marine Environmental Research*, 138, 28-35. <http://doi.org/10.1016/j.marenvres.2018.03.011>

ACL021 [Th1] Chater Ines, Romdhani Ahlem, Dufour Jean-Louis, Mahe Kelig, Francour Patrice, Chakroun-Marzouk Nadia (2015). Otolith growth and age estimation of bastard grunt, *Pomadasys incisus* (Actinopterygii: Perciformes: Haemulidae), in the Gulf of Tunis (Central Mediterranean). *Acta Ichthyologica Et Piscatoria*, 45(1), 57-64. Publisher's official version : <http://doi.org/10.3750/AIP2015.45.1.06> , Open Access version : <http://archimer.ifremer.fr/doc/00259/37006/>

ACL022 [Th1] Chater Ines, Romdhani-Dahri Ahlem, Dufour Jean-Louis, Mahe Kelig, Chakroun-Marzouk Nadia (2018). Age, growth and mortality of *Sciaena umbra* (Sciaenidae) in the Gulf of Tunis. *Scientia Marina*, 82(1), 17-25. Publisher's official version : <http://doi.org/10.3989/scimar.04679.21A> , Open Access version : <http://archimer.ifremer.fr/doc/00424/53552/>

ACL023 [Th2] Chauvelon Tiphaine, Cresson Pierre, Bouchoucha Marc, Brach-Papa Christophe, Bustamante Paco, Crochet Sylvette, Marco-Miralles Françoise, Thomas Bastien, Knoery Joel (2018). Oligotrophy as a major driver of mercury bioaccumulation in medium-to high-trophic level

consumers: A marine ecosystem-comparative study. *Environmental Pollution*, 233, 844-854.
<http://doi.org/10.1016/j.envpol.2017.11.015>

ACL024 [Th2] Coll M., Shannon L. J., Kleisner K. M., Juan-Jorda M. J., Bundy A., Akoglu A. G., Banaru Daniela, Boldt J. L., Borges M. F., Cook A., Diallo I., Fu C., Fox C., Gascuel D., Gurney L. J., ..., Travers-Trolet Morgane,... (2016). Ecological indicators to capture the effects of fishing on biodiversity and conservation status of marine ecosystems. *Ecological Indicators*, 60, 947-962. Publisher's official version : <http://doi.org/10.1016/j.ecolind.2015.08.048> , Open Access version : <http://archimer.ifremer.fr/doc/00281/39201/>

ACL025 [Th1] Cormon Xochitl, Ernande Bruno, Kempf Alexander, Vermard Youen, Marchal Paul (2016). North Sea saithe *Pollachius virens* growth in relation to food availability, density dependence and temperature. *Marine Ecology Progress Series*, 542, 141-151. Publisher's official version : <http://doi.org/10.3354/meps11559> , Open Access version : <http://archimer.ifremer.fr/doc/00314/42499/>

ACL026 [Th3] Cormon Xochitl, Kempf Alexander, Vermard Youen, Vinther Morten, Marchal Paul (2016). Emergence of a new predator in the North Sea: evaluation of potential trophic impacts focused on hake, saithe, and Norway pout. *Ices Journal Of Marine Science*, 73(5), 1370-1381. Publisher's official version : <http://doi.org/10.1093/icesjms/fsw050> , Open Access version : <http://archimer.ifremer.fr/doc/00327/43794/>

ACL027 [Th1] Cormon Xochitl, Loots Christophe, Vaz Sandrine, Vermard Youen, Marchal Paul (2014). Spatial interactions between saithe (*Pollachius virens*) and hake (*Merluccius merluccius*) in the North Sea. *Ices Journal Of Marine Science*, 71(6), 1342-1355. Publisher's official version : <http://doi.org/10.1093/icesjms/fsu120> , Open Access version : <http://archimer.ifremer.fr/doc/00200/31146/>

ACL028 [Th2] Cresson Pierre, Bouchoucha Marc, Miralles F., Elleboode Romain, Mahe Kelig, Maruszczak Nicolas, Thebault Herve, Cossa Daniel (2015). Are red mullet efficient as bio-indicators of mercury contamination? A case study from the French Mediterranean. *Marine Pollution Bulletin*, 91(1), 191-199. Publisher's official version : <http://doi.org/10.1016/j.marpolbul.2014.12.005> , Open Access version : <http://archimer.ifremer.fr/doc/00244/35514/>

ACL029 [Th2] Cresson Pierre, Bouchoucha Marc, Morat Fabien, Miralles Françoise, Chavanon Fabienne, Loizeau Veronique, Cossa Daniel (2015). A multitracer approach to assess the spatial contamination pattern of hake (*Merluccius merluccius*) in the French Mediterranean. *Science Of The Total Environment*, 532, 184-194. Publisher's official version : <http://doi.org/10.1016/j.scitotenv.2015.06.020> , Open Access version : <http://archimer.ifremer.fr/doc/00270/38155/>

ACL030 [Th1] Cresson Pierre, Fabri Marie-Claire, Miralles Françoise Marco, Dufour Jean-Louis, Elleboode Romain, Sevin Karine, Mahe Kelig, Bouchoucha Marc (2016). Variability of PCB burden in 5 fish and sharks species of the French Mediterranean continental slope. *Environmental Pollution*, 212, 374-381. Publisher's official version : <http://doi.org/10.1016/j.envpol.2016.01.044> , Open Access version : <http://archimer.ifremer.fr/doc/00313/42421/>

ACL031 [Th2] Cresson Pierre, Rouquette Manuel, Marco-Miralles Françoise, Dufour Jean-Louis, Causse Romain, Bouchoucha Marc, Mahe Kelig (2017). Lost in the North: The first record of *Diretmichthys parini* (Post and Quéro, 1981) in the northern North Sea. *Marine Pollution Bulletin*, 115(1-2), 439-443. Publisher's official version : <http://doi.org/10.1016/j.marpolbul.2016.10.074> , Open Access version : <http://archimer.ifremer.fr/doc/00357/46805/>

ACL032 [Th2] Cresson Pierre, Travers-Trolet Morgane, Rouquette Manuel, Timmerman Charles-Andre, Giraldo Carolina, Lefebvre Sebastien, Ernande Bruno (2017). Underestimation of chemical contamination in marine fish muscle tissue can be reduced by considering variable wet:dry weight ratios. *Marine Pollution Bulletin*, 123(1-2), 279-285. <http://doi.org/10.1016/j.marpolbul.2017.08.046>

ACL033 [Th2] Daewel Ute, Hjollo Solfrid Sætre, Huret Martin, Ji Rubao, Maar Marie, Niiranen Susa, Travers-Trolet Morgane, Peck Myron A., Van De Wolfshaar Karen E. (2014). Predation control of zooplankton dynamics: a review of observations and models. *Ices Journal Of Marine Science*, 71(2), 254-271. <http://doi.org/10.1093/icesjms/fst125>

ACL034 [Th1] David Carmen, Vaz Sandrine, Loots Christophe, Antajan Elvire, Van Der Molen Johan, Travers-Trolet Morgane (2015). Understanding winter distribution and transport pathways of the invasive ctenophore *Mnemiopsis leidyi* in the North Sea: coupling habitat and dispersal

modelling approaches. *Biological Invasions*, 17(9), 2605-2619. <http://doi.org/10.1007/s10530-015-0899-y>

ACL035 [Th1] Delavenne Juliette, Marchal Paul, Vaz Sandrine (2013). Defining a pelagic typology of the eastern English Channel. *Continental Shelf Research*, 52, 87-96. Publisher's official version : <http://doi.org/10.1016/j.csr.2012.10.016> , Open Access version : <http://archimer.ifremer.fr/doc/00125/23655/>

ACL036 [Th1] Denis Jeremy, Mahe Kelig, Tavernier Eric, Monchy Sebastien, Vincent Dorothee, Vallet Carole, Marchal Paul, Antajan Elvire, Caboche Josselin, Lefebvre Valerie, Cordier Remy, Loots Christophe (2017). Ontogenetic changes in the larval condition of Downs herring: use of a multi-index approach at an individual scale. *Marine Biology*, 164(7), 154 (1-14). <http://doi.org/10.1007/s00227-017-3180-3>

ACL037 [Th1] Denis Jeremy, Vallet Carole, Courcot Lucie, Lefebvre Valerie, Caboche Josselin, Antajan Elvire, Marchal Paul, Loots Christophe (2016). Feeding strategy of Downs herring larvae (*Clupea harengus* L.) in the English Channel and North Sea. *Journal Of Sea Research*, 115, 33-46. Publisher's official version : <http://doi.org/10.1016/j.seares.2016.07.003> , Open Access version : <http://archimer.ifremer.fr/doc/00345/45606/>

ACL038 [Th3] Drouineau Hilaire, Lobry Jeremy, Bez Nicolas, Travers-Trolet Morgane, Vermard Youen, Gascuel Didier (2016). The need for a protean fisheries science to address the degradation of exploited aquatic ecosystems. *Aquatic Living Resources*, 29(2), E201 (1-7). Publisher's official version : <http://doi.org/10.1051/alr/2016021> , Open Access version : <http://archimer.ifremer.fr/doc/00359/46990/>

ACL039 [Th1] Dutertre Mickael, Ernande Bruno, Haure Joel, Barille Laurent (2017). Spatial and temporal adjustments in gill and palp size in the oyster *Crassostrea gigas*. *Journal Of Molluscan Studies*, 83(1), 11-18. Publisher's official version : <http://doi.org/10.1093/mollus/eyw025> , Open Access version : <http://archimer.ifremer.fr/doc/00351/46223/>

ACL040 [Th3] Eigaard Ole Ritzau, Marchal Paul, Gislason Henrik, Rijnsdorp Adriaan D. (2014). Technological Development and Fisheries Management. *Reviews In Fisheries Science & Aquaculture*, 22(2), 156-174. Publisher's official version : <http://doi.org/10.1080/23308249.2014.899557> , Open Access version : <http://archimer.ifremer.fr/doc/00222/33368/>

ACL041 [Th2] Emmerly Antoine, Alunno-Bruscia Marianne, Bataille M. P., Kooijman S. A. L. M., Lefebvre Sebastien (2017). Dynamics of stable isotope ratios ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) in different tissues of *Crassostrea gigas* at two contrasted ecosystems: insights from growth and food sources. *Vie Et Milieu-life And Environment*, 66(3-4), 261-273.

ACL042 [Th2] Evans Matthew R., Bithell Mike, Cornell Stephen J., Dall Sasha R. X., Diaz Sandra, Emmott Stephen, Ernande Bruno, Grimm Volker, Hodgson David J., Lewis Simon L., Mace Georgina M., Morecroft Michael, Moustakas Aristides, Murphy Eugene, Newbold Tim, ... (2013). Predictive systems ecology. *Proceedings Of The Royal Society B-biological Sciences*, 280(1771), -. Publisher's official version : <http://doi.org/10.1098/rspb.2013.1452> , Open Access version : <http://archimer.ifremer.fr/doc/00177/28816/>

ACL043 [Th2] Evariste Emmanuelle, Claquin Pascal, Robin Jean Paul, Auber Arnaud, Mcquatters-Gollop Abigail, Dauvin Jean-Claude (2016). The Channel ecosystem, a cross-roads of anthropogenic pressures and scientific studies: Lessons learned from the European INTERREG IV projects (2009–2015). *Marine Policy*, 63, 158-165. <http://doi.org/10.1016/j.marpol.2015.10.012>

ACL044 [Th2] Evariste Emmanuelle, Claquin Pascal, Robin Jean-Pierre, Auber Arnaud, Mcquatters-Gollop Abigail, Fletcher Stephen, Glegg Gillian, Dauvin Jean-Claude (2015). What did we learn from PEGASEAS forum "Science and Governance of the Channel Marine Ecosystem"? *Marine Pollution Bulletin*, 93(1-2), 1-4. Publisher's official version : <http://doi.org/10.1016/j.marpolbul.2015.02.021> , Open Access version : <http://archimer.ifremer.fr/doc/00254/36550/>

ACL045 [Th1] Ferrari Sebastien, Horri Khaled, Allal Francois, Vergnet Alain, Benhaim David, Vandeputte Marc, Chatain Beatrice, Begout Marie-Laure (2016). Heritability of Boldness and Hypoxia Avoidance in European Seabass, *Dicentrarchus labrax*. *Plos One*, 11(12), e0168506 (1-16). Publisher's official version : <http://doi.org/10.1371/journal.pone.0168506> , Open Access version : <http://archimer.ifremer.fr/doc/00362/47278/>

ACL046 [Th3] Forrest Robyn E., Savina-Rolland Marie, Fulton Elizabeth A., Pitcher Tony J. (2015). Do marine ecosystem models give consistent policy evaluations? A comparison of Atlantis and Ecosim.

Fisheries Research, 167, 293-312. <http://doi.org/10.1016/j.fishres.2015.03.010>

- ACL047 [Th2]** Fu Caihong, Large Scott, Knight Ben, Richardson Anthony J., Bundy Alida, Reygondeau Gabriel, Boldt Jennifer, Van Der Meeren Gro I., Torres Maria A, Sobrino Ignacio, Auber Arnaud, Travers-Trolet Morgane, Piroddi Chiara, Diallo Ibrahima, Jouffre Didier,... (2015). Relationships among fisheries exploitation, environmental conditions, and ecological indicators across a series of marine ecosystems. *Journal Of Marine Systems*, 148, 101-111. Publisher's official version : <http://doi.org/10.1016/j.jmarsys.2015.01.004> , Open Access version : <http://archimer.ifremer.fr/doc/00250/36155/>
- ACL048 [Th2]** Fu Caihong, Travers-Trolet Morgane, Velez Laure, Gruss Arnaud, Bundy Alida, Shannon Lynne J., Fulton Elizabeth A., Akoglu Ekin, Houle Jennifer E., Coll Marta, Verley Philippe, Heymans Johanna J., John Emma, Shin Yunne-Jai (2018). Risky business: The combined effects of fishing and changes in primary productivity on fish communities. *Ecological Modelling*, 368, 265-276. <http://doi.org/10.1016/j.ecolmodel.2017.12.003>
- ACL049 [Th3]** Fulton Elizabeth A., Bax Nicholas J., Bustamante Rodrigo H., Dambacher Jeffrey M., Dichmont Catherine, Dunstan Piers K., Hayes Keith R., Hobday Alistair J., Pitcher Roland, Plaganyi Eva E., Punt Andre E., Savina-Rolland Marie, Smith Anthony D. M., Smith David C. (2015). Modelling marine protected areas: insights and hurdles. *Philosophical Transactions Of The Royal Society B-biological Sciences*, 370(1681), 1-17. <http://doi.org/10.1098/rstb.2014.0278>
- ACL050 [Th3]** Garcia Dorleta, Urtizbera Agurtzane, Diez Guzman, Gil Juan, Marchal Paul (2013). Bio-economic management strategy evaluation of deepwater stocks using the FLBEIA model. *Aquatic Living Resources*, 26(4), 365-U3382. Publisher's official version : <http://doi.org/10.1051/alr/2013069> , Open Access version : <http://archimer.ifremer.fr/doc/00176/28760/>
- ACL051 [Th3]** Gasche Loic, Mahevas Stephanie, Marchal Paul (2013). Supporting Fisheries Management by Means of Complex Models: Can We Point out Isles of Robustness in a Sea of Uncertainty? *Plos One*, 8(10), -. Publisher's official version : <http://doi.org/10.1371/journal.pone.0077566> , Open Access version : <http://archimer.ifremer.fr/doc/00166/27746/>
- ACL052 [Th3]** Gascuel Didier, Coll Marta, Fox Clive, Guenette Sylvie, Guitton Jerome, Kenny Andrew, Knittweis Leyla, Nielsen J. Rasmus, Piet Geerjan, Raid Tiit, Travers-Trolet Morgane, Shephard Samuel (2016). Fishing impact and environmental status in European seas: a diagnosis from stock assessments and ecosystem indicators. *Fish And Fisheries*, 17(1), 31-55. Publisher's official version : <http://doi.org/10.1111/faf.12090> , Open Access version : <http://archimer.ifremer.fr/doc/00201/31256/>
- ACL053 [Th2]** Giraldo Carolina, Ernande Bruno, Cresson Pierre, Kopp Dorothee, Cachera Marie, Travers-Trolet Morgane, Lefebvre Sebastien (2017). Depth gradient on the resource use of a fish community from a semi-enclosed sea. *Limnology And Oceanography*, 62(5), 2213-2226. Publisher's official version : <http://doi.org/10.1002/lno.10561> , Open Access version : <http://archimer.ifremer.fr/doc/00386/49711/>
- ACL054 [Th2]** Giraldo Carolina, Stasko Ashley, Walkusz Wojciech, Majewski Andrew, Rosenberg Bruno, Power Michael, Swanson Heidi, Reist James D. (2018). Feeding of Greenland halibut (*Reinhardtius hippoglossoides*) in the Canadian Beaufort Sea. *Journal Of Marine Systems*, 183, 32-41. <http://doi.org/10.1016/j.jmarsys.2018.03.009>
- ACL055 [Th2]** Girardin Raphael, Fulton Elizabeth A., Lehuta Sigrid, Rolland Marie, Thebaud Olivier, Travers-Trolet Morgane, Vermard Youen, Marchal Paul (2018). Identification of the main processes underlying ecosystem functioning in the Eastern English Channel, with a focus on flatfish species, as revealed through the application of the Atlantis end-to-end model. *Estuarine Coastal And Shelf Science*, 201, 208-222. Publisher's official version : <http://doi.org/10.1016/j.ecss.2016.10.016> , Open Access version : <http://archimer.ifremer.fr/doc/00354/46524/>
- ACL056 [Th3]** Girardin Raphael, Hamon Katell, Pinnegar John, Poos Jan Jaap, Thebaud Olivier, Tidd Alex, Vermard Youen, Marchal Paul (2017). Thirty years of fleet dynamics modelling using discrete-choice models: What have we learned? *Fish And Fisheries*, 18(4), 638-655. Publisher's official version : <http://doi.org/10.1111/faf.12194> , Open Access version : <http://archimer.ifremer.fr/doc/00357/46834/>
- ACL057 [Th3]** Girardin Raphael, Vermard Youen, Thebaud Olivier, Tidd Alex, Marchal Paul (2015). Predicting fisher response to competition for space and resources in a mixed demersal fishery. *Ocean & Coastal Management*, 106, 124-135. Publisher's official version :

- <http://doi.org/10.1016/j.ocecoaman.2015.01.017> , Open Access version : <http://archimer.ifremer.fr/doc/00250/36153/>
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ACL109 [Th1] Mollet Fabian M., Engelhard Georg, Vainikka Anssi, Laugen Ane, Rijnsdorp Adriaan D., Ernande Bruno (2013). Spatial variation in growth, maturation schedules and reproductive investment of female sole *Solea solea* in the Northeast Atlantic. *Journal Of Sea Research*, 84, 109-121. Publisher's official version : <http://doi.org/10.1016/j.seares.2012.12.005> , Open Access version : <http://archimer.ifremer.fr/doc/00124/23523/>

ACL130 [Th3] Thebaud Olivier, Innes James, Doyen Luc, Lample Michel, Macher Claire, Mahevas Stephanie, Mullon Christian, Planque Benjamin, Quaas Martin, Smith Tony, Vermard Youen (2014). Building ecological-economic models and scenarios of marine resource systems: Workshop report. *Marine Policy*, 43, 382-386. <http://doi.org/10.1016/j.marpol.2013.05.010>

ACL133 [Th3] Torres-Irneo Edgar, Dreyfus-Leon Michel, Gaertner Daniel, Salas Silvia, Marchal Paul (2017). Adaptive responses of tropical tuna purse-seiners under temporal regulations. *Ambio*, 46(1), 88-97. Publisher's official version : <http://doi.org/10.1007/s13280-016-0801-x> , Open Access version : <http://archimer.ifremer.fr/doc/00360/47088/>

Review articles [Peer-reviewed, indexed in WoS]

ACL010 [Th2] Bird Christopher S., Verissimo Ana, Magozzi Sarah, Abrantes Katya G., Aguilar Alex, Al-Reasi Hassan, Barnett Adam, Bethea Dana M., Biais Gerard, Borrell Asuncion, Bouchoucha Marc, Boyle Mariah, Brooks Edward J., Brunnschweiler Juerg, ..., Cresson Pierre, ..., <http://doi.org/10.1038/s41559-017-0432-z>

ACL024 [Th2] Coll M., Shannon L. J., Kleisner K. M., Juan-Jorda M. J., Bundy A., Akoglu A. G., Banaru Daniela, Boldt J. L., Borges M. F., Cook A., Diallo I., Fu C., Fox C., Gascuel D., Gurney L. J., ..., Travers-Trolet Morgane... (2016). Ecological indicators to capture the effects of fishing on biodiversity and conservation status of marine ecosystems. *Ecological Indicators*, 60, 947-962. Publisher's official version : <http://doi.org/10.1016/j.ecolind.2015.08.048> , Open Access version : <http://archimer.ifremer.fr/doc/00281/39201/>

ACL033 [Th2] Daewel Ute, Hjollo Solfrid Saetre, Huret Martin, Ji Rubao, Maar Marie, Niiranen Susa, Travers-Trolet Morgane, Peck Myron A., Van De Wolfshaar Karen E. (2014). Predation control of zooplankton dynamics: a review of observations and models. *Ices Journal Of Marine Science*, 71(2), 254-271. <http://doi.org/10.1093/icesjms/fst125>

ACL040 [Th3] Eigaard Ole Ritzau, Marchal Paul, Gislason Henrik, Rijnsdorp Adriaan D. (2014). Technological Development and Fisheries Management. *Reviews In Fisheries Science & Aquaculture*, 22(2),

156-174. Publisher's official version : <http://doi.org/10.1080/23308249.2014.899557> , Open Access version : <http://archimer.ifremer.fr/doc/00222/33368/>

ACL042 [Th2] Evans Matthew R., Bithell Mike, Cornell Stephen J., Dall Sasha R. X., Diaz Sandra, Emmott Stephen, Ernande Bruno, Grimm Volker, Hodgson David J., Lewis Simon L., Mace Georgina M., Morecroft Michael, Moustakas Aristides, Murphy Eugene, Newbold Tim, ... (2013). Predictive systems ecology. *Proceedings Of The Royal Society B-biological Sciences*, 280(1771), -. Publisher's official version : <http://doi.org/10.1098/rspb.2013.1452> , Open Access version : <http://archimer.ifremer.fr/doc/00177/28816/>

ACL043 [Th2] Evariste Emmanuelle, Claquin Pascal, Robin Jean Paul, Auber Arnaud, Mcquatters-Gollop Abigail, Dauvin Jean-Claude (2016). The Channel ecosystem, a cross-roads of anthropogenic pressures and scientific studies: Lessons learned from the European INTERREG IV projects (2009–2015). *Marine Policy*, 63, 158-165. <http://doi.org/10.1016/j.marpol.2015.10.012>

ACL044 [Th2] Evariste Emmanuelle, Claquin Pascal, Robin Jean-Pierre, Auber Arnaud, Mcquatters-Gollop Abigail, Fletcher Stephen, Glegg Gillian, Dauvin Jean-Claude (2015). What did we learn from PEGASEAS forum "Science and Governance of the Channel Marine Ecosystem"? *Marine Pollution Bulletin*, 93(1-2), 1-4. Publisher's official version : <http://doi.org/10.1016/j.marpolbul.2015.02.021> , Open Access version : <http://archimer.ifremer.fr/doc/00254/36550/>

ACL047 [Th3] Fu Caihong, Large Scott, Knight Ben, Richardson Anthony J., Bundy Alida, Reygondeau Gabriel, Boldt Jennifer, Van Der Meeren Gro I., Torres Maria A, Sobrino Ignacio, Auber Arnaud, Travers-Trolet Morgane, Piroddi Chiara, Diallo Ibrahima, Jouffre Didier,... (2015). Relationships among fisheries exploitation, environmental conditions, and ecological indicators across a series of marine ecosystems. *Journal Of Marine Systems*, 148, 101-111. Publisher's official version : <http://doi.org/10.1016/j.jmarsys.2015.01.004> , Open Access version : <http://archimer.ifremer.fr/doc/00250/36155/>

ACL048 [Th3] Fu Caihong, Travers-Trolet Morgane, Velez Laure, Gruss Arnaud, Bundy Alida, Shannon Lynne J., Fulton Elizabeth A., Akoglu Ekin, Houle Jennifer E., Coll Marta, Verley Philippe, Heymans Johanna J., John Emma, Shin Yunne-Jai (2018). Risky business: The combined effects of fishing and changes in primary productivity on fish communities. *Ecological Modelling*, 368, 265-276. <http://doi.org/10.1016/j.ecolmodel.2017.12.003>

ACL049 [Th3] Fulton Elizabeth A., Bax Nicholas J., Bustamante Rodrigo H., Dambacher Jeffrey M., Dichmont Catherine, Dunstan Piers K., Hayes Keith R., Hobday Alistair J., Pitcher Roland, Plaganyi Eva E., Punt Andre E., Savina-Rolland Marie, Smith Anthony D. M., Smith David C. (2015). Modelling marine protected areas: insights and hurdles. *Philosophical Transactions Of The Royal Society B-biological Sciences*, 370(1681), 1-17. <http://doi.org/10.1098/rstb.2014.0278>

ACL052 [Th3] Gascuel Didier, Coll Marta, Fox Clive, Guenette Sylvie, Guitton Jerome, Kenny Andrew, Knittweis Leyla, Nielsen J. Rasmus, Piet Gerjan, Raid Tiit, Travers-Trolet Morgane, Shephard Samuel (2016). Fishing impact and environmental status in European seas: a diagnosis from stock assessments and ecosystem indicators. *Fish And Fisheries*, 17(1), 31-55. Publisher's official version : <http://doi.org/10.1111/faf.12090> , Open Access version : <http://archimer.ifremer.fr/doc/00201/31256/>

ACL056 [Th3] Girardin Raphael, Hamon Katell, Pinnegar John, Poos Jan Jaap, Thebaud Olivier, Tidd Alex, Vermard Youen, Marchal Paul (2017). Thirty years of fleet dynamics modelling using discrete-choice models: What have we learned? *Fish And Fisheries*, 18(4), 638-655. Publisher's official version : <http://doi.org/10.1111/faf.12194> , Open Access version : <http://archimer.ifremer.fr/doc/00357/46834/>

ACL062 [Th1] Heino Mikko, Baulier Loic, Boukal David S., Ernande Bruno, Johnston Fiona D., Mollet Fabian M., Pardoe Heidi, Therkildsen Nina O., Uusi-Heikkila Silva, Vainikka Anssi, Arlinghaus Robert, Dankel Dorothy J., Dunlop Erin S., Eikeset Anne Maria, Enberg Katja, ..., Laugen Ane, (2013). Can fisheries-induced evolution shift reference points for fisheries management? *Ices Journal Of Marine Science*, 70(4), 707-721. Publisher's official version : <http://doi.org/10.1093/icesjms/fst077> , Open Access version : <http://archimer.ifremer.fr/doc/00151/26228/>

ACL069 [Th3] Janssen Holger, Bastardie Francois, Eero Margit, Hamon Katell, Hinrichsen Hans-Harald, Marchal Paul, Nielsen J. Rasmus, Le Pape Olivier, Schulze Torsten, Simons Sarah, Teal Lorna R., Tidd Alex (2018). Integration of fisheries into marine spatial planning: Quo vadis? *Estuarine Coastal And Shelf Science*, 201, 105-113. Publisher's official version : <http://doi.org/10.1016/j.ecss.2017.01.003> , Open Access version : <http://archimer.ifremer.fr/doc/00364/47480/>

- ACL074 [Th2]** Kleisner Kristin M., Coll Marta, Lynam Christopher P., Bundy Alida, Shannon Lynne, Shin Yunne-Jai, Boldt Jennifer L., Borges Maria F., Diallo Ibrahima, Fox Clive, Gascuel Didier, Heymans Johanna J., Juan Jorda Maria J., Jouffre Didier, Large Scott I., ..., Travers-Trolet Morgane,... (2015). Evaluating changes in marine communities that provide ecosystem services through comparative assessments of community indicators. *Ecosystem Services*, 16, 413-429. Publisher's official version : <http://doi.org/10.1016/j.ecoser.2015.02.002> , Open Access version : <http://archimer.ifremer.fr/doc/00254/36555/>
- ACL079 [Th3]** Large Philip A., Agnew David J., Alvarez Perez Jose Angel, Barrio Frojan Christopher, Cloete Rudi, Damalas Dimitrios, Dransfeld Leonie, Edwards Charles T. T., Feist Stephen, Figueiredo Ivone, Gonzalez Fernando, Gil Herrera Juan, Kenny Andrew, Jakobsdottir Klara, Longshaw Matt, Lorange Pascal, Marchal Paul,... (2013). Strengths and Weaknesses of the Management and Monitoring of Deep-Water Stocks, Fisheries, and Ecosystems in Various Areas of the World- A Roadmap Toward Sustainable Deep-Water Fisheries in the Northeast Atlantic? *Reviews In Fisheries Science*, 21(2), 157-180. Publisher's official version : <http://doi.org/10.1080/10641262.2013.785475> , Open Access version : <http://archimer.ifremer.fr/doc/00142/25321/>
- ACL080 [Th1]** Laugen Ane, Engelhard Georg, Whitlock Rebecca, Arlinghaus Robert, Dankel Dorothy J., Dunlop Erin S., Eikeset Anne M., Enberg Katja, Jorgensen Christian, Matsumura Shuichi, Nussle Sebastien, Urbach Davnah, Baulier Loic, Boukal David S., Ernande Bruno,... (2014). Evolutionary impact assessment: accounting for evolutionary consequences of fishing in an ecosystem approach to fisheries management. *Fish And Fisheries*, 15(1), 65-96. Publisher's official version : <http://doi.org/10.1111/faf.12007> , Open Access version : <http://archimer.ifremer.fr/doc/00124/23522/>
- ACL081 [Th3]** Le Floc'h Pascal, Murillas Arantza, Aranda Martin, Daures Fabienne, Fitzpatrick Mike, Guyader Olivier, Hatcher Aaron, Macher Claire, Marchal Paul (2015). The regional management of fisheries in European Western Waters. *Marine Policy*, 51, 375-384. Publisher's official version : <http://doi.org/10.1016/j.marpol.2014.09.022> , Open Access version : <http://archimer.ifremer.fr/doc/00248/35912/>
- ACL086 [Th3]** Lehuta Sigrid, Girardin Raphael, Mahevas Stephanie, Travers-Trolet Morgane, Vernard Youen (2016). Reconciling complex system models and fisheries advice: Practical examples and leads. *Aquatic Living Resources*, 29(2), 208 (1-20). Publisher's official version : <http://doi.org/10.1051/alr/2016022> , Open Access version : <http://archimer.ifremer.fr/doc/00358/46945/>
- ACL098 [Th3]** Marchal Paul, Andersen Jesper Levring, Aranda Martin, Fitzpatrick Mike, Goti Leyre, Guyader Olivier, Haraldsson Gunnar, Hatcher Aaron, Hegland Troels Jacob, Le Floc'h Pascal, Macher Claire, Malvarosa Loretta, Maravelias Christos D., Mardle Simon, Murillas Arantza,... (2016). A comparative review of fisheries management experiences in the European Union and in other countries worldwide: Iceland, Australia, and New Zealand. *Fish And Fisheries*, 17(3), 803-824. Publisher's official version : <http://doi.org/10.1111/faf.12147> , Open Access version : <http://archimer.ifremer.fr/doc/00312/42305/>
- ACL113 [Th3]** Nielsen J. Rasmus, Thunberg Eric, Holland Daniel S., Schmidt Jorn O., Fulton Elizabeth A., Bastardie Francois, Punt Andre E., Allen Icarus, Bartelings Heleen, Bertignac Michel, Bethke Eckhard, Bossier Sieme, Buckworth Rik, Carpenter Griffin, Christensen Asbjorn,... , Marchal Paul, ... (2018). Integrated ecological-economic fisheries models-Evaluation, review and challenges for implementation. *Fish And Fisheries*, 19(1), 1-29. Publisher's official version : <http://doi.org/10.1111/faf.12232> , Open Access version : <http://archimer.ifremer.fr/doc/00391/50269/>
- ACL114 [Th2]** Payne Mark R., Barange Manuel, Cheung Williamw. L., Mackenzie Brian R., Batchelder Harold P., Cormon Xochitl, Eddy Tyler D., Fernandes Jose A., Hollowed Anne B., Jones Miranda C., Link Jason S., Neubauer Philipp, Ortiz Ivonne, Queiros Ana M., Paula Jose Ricardo (2016). Uncertainties in projecting climate-change impacts in marine ecosystems. *Ices Journal Of Marine Science*, 73(5), 1272-1282. Publisher's official version : <http://doi.org/10.1093/icesjms/fsv231> , Open Access version : <http://archimer.ifremer.fr/doc/00301/41220/>
- ACL115 [Th3]** Peck Myron A., Arvanitidis Christos, Butenschon Momme, Canu Donata Melaku, Chatzinikolaou Eva, Cucco Andrea, Domenici Paolo, Fernandes Jose A., Gasche Loic, Huebert Klaus B., Hufnagl Marc, Jones Miranda C., Kempf Alexander, Keyl Friedemann, Maar Marie, Mahevas Stephanie, Marchal Paul,... (2018). Projecting changes in the distribution and productivity of living marine resources: A critical review of the suite of modeling approaches

used in the large European project VECTORS. *Estuarine Coastal And Shelf Science*, 201, 40-55. Publisher's official version : <http://doi.org/10.1016/j.ecss.2016.05.019> , Open Access version : <http://archimer.ifremer.fr/doc/00337/44845/>

ACL116 [Th3] Queiros Ana M., Huebert Klaus B., Keyl Friedemann, Fernandes Jose A., Stolte Willem, Maar Marie, Kay Susan, Jones Miranda C., Hamon Katell, Hendriksen Gerrit, Vermard Youen, Marchal Paul, Teal Lorna R., Somerfield Paul J., Austen Melanie C.,... (2016). Solutions for ecosystem-level protection of ocean systems under climate change. *Global Change Biology*, 22(12), 3927-3936. Publisher's official version : <http://doi.org/10.1111/gcb.13423> , Open Access version : <http://archimer.ifremer.fr/doc/00360/47089/>

ACL124 [Th2] Shannon Lynne, Coll Marta, Bundy Alida, Gascuel Didier, Heymans Johanna J., Kleisner Kristin, Lynam Christopher, Piroddi Chiara, Tam Jorge, Travers-Trolet Morgane, Shin Yunne (2014). Trophic level-based indicators to track fishing impacts across marine ecosystems. *Marine Ecology Progress Series*, 512, 115-140. Publisher's official version : <http://doi.org/10.3354/meps10821> , Open Access version : <http://archimer.ifremer.fr/doc/00222/33361/>

ACL130 [Th3] Thebaud Olivier, Innes James, Doyen Luc, Lample Michel, Macher Claire, Mahevas Stephanie, Mullon Christian, Planque Benjamin, Quaas Martin, Smith Tony, Vermard Youen (2014). Building ecological-economic models and scenarios of marine resource systems: Workshop report. *Marine Policy*, 43, 382-386. <http://doi.org/10.1016/j.marpol.2013.05.010>

ACL138 [Th2] Weijerman M., Link J. S., Fulton E. A., Olsen E., Townsend H., Gaichas S., Hansend C., Skern-Mauritzen M., Kaplan I. C., Gamble R., Fay G., Savina Marie, Ainsworth C., Van Putten I., Gorton R., Brainard R., Larsen K., Hutton T. (2016). Atlantis Ecosystem Model Summit: Report from a workshop. *Ecological Modelling*, 335, 35-38. Publisher's official version : <http://doi.org/10.1016/j.ecolmodel.2016.05.007> , Open Access version : <http://archimer.ifremer.fr/doc/00335/44605/>

Other articles (professional journals, etc.)

ACLN1 [Th2] Auber Amaud (2017). Warming in the Channel leads to a decline in cold - water fish. *Science for Environment Policy*, (497), 1-2. Open Access version : <http://archimer.ifremer.fr/doc/00412/52309/>

ACLN2 [Th2] Cresson Pierre, Ruitton Sandrine, Harmelin-Vivien Mireille (2016). Feeding strategies of co-occurring suspension feeders in an oligotrophic environment. *Food Webs*, 6, 19-28. Publisher's official version : <http://doi.org/10.1016/j.fooweb.2015.12.002> , Open Access version : <http://archimer.ifremer.fr/doc/00301/41203/>

ACLN3 [Th1] Goncalves Patricia, Mahe Kelig, Elleboode Romain, Chantre Celina, Murta Alberto, Avila De Melo Antonio, Cabral Henrique (2017). Blue whiting otoliths pair's symmetry side effect. *International Journal of Fisheries and Aquatic Studies*, 5(3 Part A), 06-09. Open Access version : <http://archimer.ifremer.fr/doc/00388/49887/>

ACLN4 [Th1] Mahe Kelig, Goascoz Nicolas, Dufour Jean-Louis, Iglesias Samuel, Tetard Alain (2014). Black scorpionfish *Scorpaena porcus* (Scorpaenidae): a first record in the eastern English Channel. *Marine Biodiversity Records*, 7(e6), 1-3. Publisher's official version : <http://doi.org/10.1017/S1755267214000037> , Open Access version : <http://archimer.ifremer.fr/doc/00173/28418/>

ACLN5 [Th1] Mahe Kelig, Rabhi Khalef, Bellamy Elise, Elleboode Romain, Aumond Yoann, Huet Jerome, Roos David (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/>

ACLN6 [Th1] Romdhani Ahlem, Ktari M.H., Mahe Kelig (2013). Length - Weight relationship and condition factor of *Phycis phycis* (Linnaeus, 1766) and *Phycis blennoides* (Brünnich, 1768) [Actinopterygii, Gadiform, Phycidae] in the Gulf of Tunis. *Bulletin de l'Institut National des Sciences et Technologies de la Mer*, 40, 3-13. Open Access version : <http://archimer.ifremer.fr/doc/00280/39154/>

2- Books

The top 20% books are highlighted in yellow; the remaining 80% books are highlighted in grey.

Scientific book edition

BOE1 [Th2] Desprez Michel, Lafitte Robert, Le Blot Sophie, Duclos Pierre-Arnaud, De Roton Gwenola, Villanueva Maria, Ernande Bruno, Claveleau David, Dauvin Jean-Claude, Delpech Jean-Paul, Delsinne Nicolas, Lanshere Julien, Papore Laetitia, Simplet Laure (2014). Monitoring the impacts of marine aggregate extraction. Knowledge synthesis 2012 (GIS SIEGMA). Presses Universitaires de Rouen et du Havre.

Book chapters

BOC1 [Th2] Auber Arnaud, Delpech Jean-Paul (2014). Integration and sharing of data on marine ecosystems. In Petit, L and Carpenter, A (2014). Towards Better Governance of the Channel Ecosystem. Report from the Promoting Effective Governance of the Channel Ecosystem Project www.pegaseas.eu. The 'PEGASEAS' project was selected under the European Cross-border Cooperation Programme INTERREG IV A France (Channel) – England, funded by the ERDF. Chap.1, pp.15-18. <http://archimer.ifremer.fr/doc/00217/32848/>

BOC2 [Th2] Auber Arnaud, Delpech Jean-Paul, Evariste Emmanuelle (2014). Supporting Marine Strategy Framework Directive indicator development. In Petit, L and Carpenter, A (2014). Towards Better Governance of the Channel Ecosystem. Report from the Promoting Effective Governance of the Channel Ecosystem Project www.pegaseas.eu. The 'PEGASEAS' project was selected under the European Cross-border Cooperation Programme INTERREG IV A France (Channel) – England, funded by the ERDF. Chap.2, pp.19-24.

BOC3 [Th3] Duncan Peter F., Brand Andrew R, Strand Oivind, Foucher Eric (2016). The European Scallop Fisheries for *Pecten maximus*, *Aequipecten opercularis*, *Chlamys islandica*, and *Mimachlamys varia*. In *Scallops : Biology, Ecology, Aquaculture, and Fisheries*. Third edition. 2016. Edited by SANDRA E. SHUMWAY, G. JAY PARSONS. ISBN: 978-0-444-62710-0 ISSN: 0167-9309. *Developments in Aquaculture and Fisheries Science*. Volume 40, Chap.19 Pages 781–858.

BOC4 [Th2] Tavernier Eric, Giraldo Carolina (2017). Trophic Ecology of Early Developmental Stages of Antarctic Silverfish. In *The Antarctic Silverfish: a Keystone Species in a Changing Ecosystem*. Marino Vacchi, Eva Pisano, Laura Ghigliotti (Eds). 2017 ISBN: 978-3-319-55891-2 (Print) 978-3-319-55893-6 (Online). Volume 3 of the series *Advances in Polar Ecology*. Part II. Chapter 6, pp 113-130 (Springer Nature).

Published PhD thesis dissertations

BOP1 [Th3] Alemany Juliette (2017). Développement d'un cadre Bayésien pour l'évaluation de stocks à données limitées et élaboration de scénarios de gestion, cas particuliers de la seiche (*Sepia officinalis*) et du lieu jaune (*Pollachius pollachius*) / Development of a Bayesian framework for data limited stocks assessment methods and management scenarios. Application to two study cases, cuttlefish (*Sepia officinalis*) and pollack (*Pollachius pollachius*). PhD Thesis, Université Caen Normandie. <http://archimer.ifremer.fr/doc/00411/52227/>

BOP2 [Th3] Bourdaud Pierre (2018). Impact d'une obligation de débarquement sur les dynamiques couplées écosystème-pêcheurs : approche par modélisation individu-centrée appliquée à la Manche orientale / Impact of a landing obligation on coupled dynamics ecosystem-fishers: individual-based modelling approach applied to Eastern English Channel. PhD Thesis, Université du Littoral Côte d'Opale. <http://archimer.ifremer.fr/doc/00440/55135/>

BOP3 [Th2] Cachera Marie (2013). Implications of morphological and functional traits for trophic relationships within fish communities and marine trophic network architecture. PhD Thesis, Université Sciences et Technologies de Lille. <http://archimer.ifremer.fr/doc/00195/30603/>

BOP4 [Th2] Cormon Xochitl (2015). Impacts de l'émergence d'un top-prédateur dans un écosystème exploité : le merlu et le lieu noir de mer du Nord. Quelles interactions ? Quelles conséquences ? / Impacts of a top-predator emergence in an exploited ecosystem: North Sea hake and saithe. Which interactions? What consequences? PhD Thesis, Université Lille 1. <http://archimer.ifremer.fr/doc/00345/45638/>

- BOP5 [Th1]** Denis Jeremy (2016). Changements ontogéniques de la condition larvaire chez une espèce de poisson à reproduction hivernale, le hareng des Downs / Ontogenetic shift in the larval condition of Downs herring, a winter spawning fish. PhD Thesis, Université du Littoral Côte d'Opale. <http://archimer.ifremer.fr/doc/00386/49701/>
- BOP6 [Th3]** Girardin Raphael (2015). Ecosystem and fishers' behaviour modelling: two crucial and interacting approaches to support Ecosystem Based Fisheries Management in the Eastern English Channel. PhD Thesis, Université de Lille 1.
- BOP7 [Th1]** Horri Khaled (2018). Effets d'une exposition alimentaire chronique à un mélange environnemental de PCB et PBDE sur les traits d'histoire de vie, la bioénergétique et la dynamique des populations de poissons. PhD Thesis, Université du Havre. <http://archimer.ifremer.fr/doc/00444/55592/>
- BOP8 [Th1]** Mille Tiphaine (2015). Sources de variation intra-populationnelle de la morphologie des otolithes: asymétrie directionnelle et régime alimentaire. PhD Thesis, Université de Lille 1 - Sciences et Technologies. <http://archimer.ifremer.fr/doc/00344/45536/>

3- Meetings

The top 20% meetings are highlighted in yellow; the remaining 80% meetings are highlighted in grey.

Peer-reviewed articles published in symposia proceedings

- MPR1 [Th3]** Lehuta Sigrid, Vermard Youen, Marchal Paul (2015). A spatial model of the mixed demersal fisheries in the Eastern Channel. In Marine Productivity: Perturbations and Resilience of Socio-ecosystems. Proceedings of the 15th French-Japanese Oceanography Symposium. Editors: Hubert-Jean Ceccaldi, Yves Hénocque, Yasuyuki Koike, Teruhisa Komatsu, Georges Stora, Marie-Hélène Tusseau-Vuillemin. 2015. DOI : 10.1007/978-3-319-13878-7_20. ISBN: 978-3-319-13877-0 (Print) 978-3-319-13878-7 (Online) . Part IV, pp.187-195.
- MPR2 [Th2]** Marchal Paul, Carpentier Andre, Foucher Eric (2015). The Channel Programme: A Large-Scale Integrated Approach. In Marine Productivity: Perturbations and Resilience of Socio-ecosystems. Proceedings of the 15th French-Japanese Oceanography Symposium. Editors: Hubert-Jean Ceccaldi, Yves Hénocque, Yasuyuki Koike, Teruhisa Komatsu, Georges Stora, Marie-Hélène Tusseau-Vuillemin. 2015. ISBN: 978-3-319-13877-0 (Print) 978-3-319-13878-7 (Online) . pp.161-167 (Springer Science + Business Media). <http://archimer.ifremer.fr/doc/00294/40489/>
- MPR3 [Th2]** Marchal Paul, Gasche Loic, Girardin Raphael, Le Pape Olivier, Huret Martin, Mahevas Stephanie, Travers-Trolet Morgane, Vaz Sandrine (2015). From Data to End-to-End Models: 15 Years of Research to Describe the Dynamics of Exploited Marine Ecosystems in the Eastern Channel. In Marine Productivity: Perturbations and Resilience of Socio-ecosystems. Proceedings of the 15th French-Japanese Oceanography Symposium. Editors: Hubert-Jean Ceccaldi, Yves Hénocque, Yasuyuki Koike, Teruhisa Komatsu, Georges Stora, Marie-Hélène Tusseau-Vuillemin. 2015. ISBN: 978-3-319-13877-0 (Print) 978-3-319-13878-7 (Online) . pp.169-173 (Springer Science + Business Media). <http://archimer.ifremer.fr/doc/00293/40420/>
- MPR4 [Th3]** Reecht Yves, Gasche Loic, Lehuta Sigrid, Vaz Sandrine, Smith Robert J, Mahevas Stephanie, Marchal Paul (2015). Toward a Dynamical Approach for Systematic Conservation Planning of Eastern English Channel Fisheries. In Marine Productivity: Perturbations and Resilience of Socio-ecosystems. Proceedings of the 15th French-Japanese Oceanography Symposium. 2015. Editors: Ceccaldi, H.J., Hénocque, Y., Koike, Y., Komatsu, T., Stora, G., Tusseau-Vuillemin, M.-H. (Eds.). ISBN: 978-3-319-13877-0 (Print) 978-3-319-13878-7 (Online). pp.175-185 (Springer Science + Business Media). <http://archimer.ifremer.fr/doc/00293/40421/>

Posters

- MPO01 [Th1]** Adeline B, Dubreil E, Quinquis Jerome, Elie N, Kellner K, Heude Berthelin C (2016). Comment une approche histologique couplée à une analyse quantitative peut-elle apporter des informations sur le cycle de reproduction de la sole (*Solea solea*) femelle ? Congrès 2016 de l'AFH - Association Française d'Histotechnologie : Les techniques histologiques au service des enquêtes. 9 et 10 juin 2016, Paris. <http://archimer.ifremer.fr/doc/00342/45348/>

- MPO02 [Th1]** Akkus Gizem, Jemaa Sharif, Cemal Gucu Ali, Marchal Paul, Carbonara Pierluigi, Bacha Mahmoud, Amara Rachid, Ernande Bruno, Saraux Claire, Mahe Kelig (2018). Understanding the Population Structure of the European Anchovy (*Engraulis encrasicolus*) in the Black Sea, Mediterranean Sea and Northeast Atlantic Ocean by Using Otolith Shape Analysis. IOS2018 - 6th International Otolith Symposium 2018. 15 - 20 April Keelung, Taiwan. <http://archimer.ifremer.fr/doc/00436/54722/>
- MPO03 [Th3]** Alemany Juliette, Foucher Eric, Rivot Etienne, Vigneau Joel, Robin Jean-Paul (2015). Stock assessment models for short-lived species in data-limited situations. Case study of the English Channel stock of cuttlefish. Tools and Strategies for Assessment and Management of Data-Limited Fish Stocks - 30th Lowell Wakefield Fisheries Symposium. May 12-15, 2015, Anchorage, Alaska. <http://archimer.ifremer.fr/doc/00377/48773/>
- MPO04 [Th2]** Auber Arnaud, Travers-Trolet Morgane, Ernande Bruno (2014). A new use of the Principal Response Curve for summarizing community dynamics over time and space: An application on fish communities. 2nd PEGASEAS Cross Channel Forum, 2-3 July 2014, Caen.
- MPO05 [Th1]** Bellamy Elise, Caill-Milly Nathalie, Lissardy Muriel, Mahe Kelig (2015). Pièces calcifiées utilisées pour estimer l'âge des principales espèces de poissons du golfe de Gascogne. Fête du port de Saint-Jean de Luz / Ciboure - 11-12/04/2015. <http://archimer.ifremer.fr/doc/00256/36688/>
- MPO06 [Th1]** Caill-Milly Nathalie, Mahe Kelig, Bellamy Elise, D'Amico Franck (2013). Croissance de la palourde japonaise (*Venerupis philippinarum*) : périodicité des micro-incréments et taux de croissance journaliers en fonction de la taille et des conditions environnementales par marquage à la calcéine. Colloque de Sclérochronologie : Structures dures ou calcifiées chez les organismes aquatiques : leur utilisation en écologie halieutique, 2-4 Juillet 2013, Rennes. <http://archimer.ifremer.fr/doc/00148/25906/>
- MPO07 [Th3]** Delaunay Damien, Brind'Amour Anik, Foucher Eric, Baudrier Jerome (2018). Recent MSFD assessment for the commercial (D3) and fish & cephalopods species (D1): Conclusions for the Bay of Biscay. ISOBAY 16 - XVIth International Symposium of Oceanography of the Bay of Biscay. 5-7 June 2018, Anglet, France.
- MPO08 [Th1]** Denis Jeremy, Vallet Carole, Vincent Dorothee, Courcot Lucie, Marchal Paul, Loots Christophe (2014). Feeding strategy of Downs herring larvae in the English Channel and North Sea. Johan Hjort Symposium on Recruitment Dynamics and Stock Variability 7-9 October 2014, Bergen, Norway. <http://archimer.ifremer.fr/doc/00255/36608/>
- MPO09 [Th1]** Durieux Eric, Mahe Kelig, Labonne Maylis, Morin Jocelyne, Brind'Amour Anik (2014). Variabilité spatiale de la signature multi-élémentaire des otolithes de G0 de *Solea solea* et *Pleuronectes platessa* au sein d'un habitat côtier : exemple de la baie de Seine. 3rd Cross-channel forum: future challenges for effective governance of the channel, 13 - 14 November 2014, Le Havre, France. <http://archimer.ifremer.fr/doc/00220/33153/>
- MPO10 [Th1]** Fave Sebastien, Crepin Emeline, Magalhaes Jose Ramos, Ogor Andre, De Pontual Helene, Mahe Kelig (2013). TNPC software - Traitement Numérique des Pièces Calcifiées / Numerical Treatment of Calcified Structures : Développement d'un logiciel dédié à l'analyse des pièces calcifiées : Colloque de Sclérochronologie : Structures dures ou calcifiées chez les organismes aquatiques : leur utilisation en écologie halieutique, 2-4 Juillet 2013, Rennes. <http://archimer.ifremer.fr/doc/00148/25905/>
- MPO11 [Th1]** Guillaud Emilie, Elleboode Romain, Bearez Philippe, Mahe Kelig (2014). Analyses sclérochronologiques d'écailles archéologiques d'ombres commun *Thymallus thymallus* et inférences sur la pêche paléolithique au Taillis des Coteaux (Vienne, France). Journées 2014 de la Société Française d'Ichtyologie, 09-10 Avril 2014, Boulogne sur mer. <http://archimer.ifremer.fr/doc/00187/29805/>
- MPO12 [Th2]** Henry Maryvonne, Le Moigne Morgan, Sorin Paul, Salaun Michele, Verin Yves, Galgani Francois (2016). MICROPLASTIQUES. Acquis, développements et enjeux dans le contexte de la DCMM. Colloque LITEAU : Observation et recherche en appui aux politiques du littoral et de la mer. Brest, 14-15 janvier 2016.
- MPO13 [Th3]** Lesur-Irichabeau Gabrielle, Guyader Olivier, Cochard Marie-Laure, Foucher Eric, Fifas Spyros (2015). Management systems of French scallop fisheries in the Channel: from access regulation to resources conservation. RMA 2015 - Conférence mondiale 2015 sur la Modélisation des Ressources Naturelles : Modélisation et durabilité pour la biodiversité et les services écosystémiques. 29 juin-1er juillet 2015,

Bordeaux. <http://archimer.ifremer.fr/doc/00309/41994/>

- MPO14 [Th1]** Mahe Kelig, Elleboode Romain, Bellamy Elise (2013). Estimation de la croissance journalière de juvéniles de poissons à partir des microstries observables à la surface des otolithes : cas de la plie et de la sole en Manche Est, du maigre dans le golfe de Gascogne et du merlu dans le golfe du Lion. Colloque de Sclérochronologie : Structures dures ou calcifiées chez les organismes aquatiques : leur utilisation en écologie halieutique, 2-4 Juillet 2013, Rennes. <http://archimer.ifremer.fr/doc/00148/25904/>
- MPO15 [Th1]** Mahe Kelig, Evano Hugues, Mille Tiphaine, Bourjea Jerome (2014). Otolith shape as a valuable tool to evaluate the stock structure of swordfish (*Xiphias gladius*) in the Indian Ocean. IOS2014 - 5th International Otolith Symposium 2014, 20-24 October 2014 Mallorca, Spain. <http://archimer.ifremer.fr/doc/00220/33150/>
- MPO16 [Th1]** Mille Tiphaine, Ernande Bruno, De Pontual Helene, Villanueva Ching-Maria, Mahe Kelig (2016). Sources of otolith morphology variation at the intra-population level: directional asymmetry and diet. Journées de la SFI 2016. 26-27 mai 2016, Marseille. <http://archimer.ifremer.fr/doc/00339/45052/>
- MPO17 [Th3]** Petitgas Pierre, Ernande Bruno, Andonegi Eider, Fabi Gianna, Scarcella Guiseppe, Kapiris Kostas, Leocadio Ana (2016). Managing Fisheries in the context of an integrated policy: the importance of spatial issues. ICES Annual Science Conference. ICES CM 2016/F:226. <http://archimer.ifremer.fr/doc/00353/46380/>
- MPO18 [Th1]** Poisson Caillaud Emilie, Vanhelst Florentin, Charlet Bastian, Mahe Kelig (2018). Otolith age estimation by Mojette Transform descriptors and machine learning. IOS2018 - 6th International Otolith Symposium 2018. 15 - 20 April Keelung, Taiwan. <http://archimer.ifremer.fr/doc/00436/54723/>
- MPO19 [Th1]** Rabhi Khalef, Bellamy Elise, Elleboode Romain, Roos David, Aumond Yoann, Huet Jerome, Mahe Kelig (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/>
- MPO20 [Th3]** Regimbart Amelie, Baudrier Jerome, Foucher Eric, Bellanger Manuel, Delaunay Damien (2016). Monitoring approaches of recreational fisheries in France under the Marine Strategy Framework Directive. ICES Annual Science Conference 2016. 19 - 23 september 2016, Riga, Latvia. <http://archimer.ifremer.fr/doc/00354/46539/>
- MPO21 [Th2]** Timmerman Charles-Andre, Cresson Pierre, Denamiel Margaux, Marchal Paul (2018). Variation saisonnière et ontogénique des paramètres trophiques des principales espèces exploitées en Manche-Mer du Nord. RIF 2018 - 7èmes Rencontres de l'ichtyologie en France. 27-30 mars 2018, Paris.
- MPO22 [Th1]** Vandeputte Marc, Horri Khaled, Allal Francois, Ferrari Sebastien, Vidal Marie-Odile, Ruelle Francois, Vergnet Alain, Begout Marie-Laure, Chatain Beatrice (2015). The phenotypic and genetic links between early individual growth and sex determination in European sea bass. Aquaculture Europe 2015 - Aquaculture, Nature and Society, October 20-23 2015, Rotterdam, The Netherlands.
- MPO23 [Th2]** Lefebvre Sébastien, Giraldo Carolina, Kopp Dorothée, Cresson Pierre, Travers-Trolet Morgane, Ernande Bruno. (2018). Benthic-pelagic couplings as key determinants of food web structure along environmental gradients. Isoecol 2018, July 30-August 3 2018, Viña del Mar, Chile.
- MPO24 [Th1]** Filip A.M. Volckaert, Eveline Diopere, Gregory E. Maes, Bart Hellemans, Fabian Mollet, Adriaan Rijnsdorp, Bruno Ernande. (2018). A genetic basis for fisheries-induced life history changes in flattfish. II Joint Congress on Evolutionary Biology – Montpellier 2018, August 18-22 2018, Montpellier, France.

Meeting abstracts

- MAB01 [Th3]** Alemany Juliette, Rivot Etienne, Foucher Eric, Vigneau Joel, Robin Jean-Paul (2015). A Bayesian two-stage biomass model applied to the English Channel stock of cuttlefish (*Sepia officinalis*). ICES CM 2015/A:06. <http://archimer.ifremer.fr/doc/00379/49066/>
- MAB02 [Th1]** Antajan Elvire, Loots Christophe, Travers-Trolet Morgane, Vaz Sandrine (2014). Recurrent winter observations of *Mnemiopsis leidyi* swarms in the Southern North Sea. CIESM. 2014. Report of the Joint CIESM/ICES Workshop on *Mnemiopsis* Science [co-edited by S.Pitois and T.Shiganova] 18-

20 september 2014, Coruna, Spain. 3.4, pp.18-21 / ICES. 2014. Report of the Joint CIESM/ICES Workshop on Mnemiopsis Science (JWMS), 18–20 September 2014, A Coruña, Spain. ICES CM 2014/SSGHIE:14. pp.18-21. <http://archimer.ifremer.fr/doc/00259/37007/>

MAB03 [Th2] Cormon Xochitl, Stabler Moritz (2016). Marine species interactions and ecosystems dynamics, implications for management and conservation. YOUMARES 7 "The convention for young scientists and engineers" - People and the 7 seas - Interaction and Inspiration. 11-13 september 2016, Hamburg Conference proceedings. 103 Session 7: Management & Conservation. pp.103.

MAB04 [Th1] Mahe Kelig (2015). RIF 2015 - Vle Rencontres de l'Ichtyologie en France Paris, 24-27 mars 2015. RIF 2015 - Vle Rencontres de l'Ichtyologie en France. 2015. Livre des résumés.<http://archimer.ifremer.fr/doc/00256/36716/>

MAB05 [Th1] Mille Tiphaine, Mahe Kelig, Bouchoucha Marc, de Pontual Helene (2014). ICES (2014) - 5th International Otolith Symposium 2014 - IOS2014 : Book of abstracts. <http://archimer.ifremer.fr/doc/00221/33260/>

MAB06 [Th2] Simplet Laure, Vogel Camille (2016). ICES (2016) - Report of the Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem (WGEXT), 18-21 April 2016, Gdansk, Poland. ICES CM 2016/SSGEPI:06. <http://archimer.ifremer.fr/doc/00355/46581/>

MAB07 [Th3] Vaschalde D, Bailly Denis, Cabral Pedro, Charles M, Daures Fabienne, Davoult D, Dedieu K, Foucher Eric, Guyader Olivier, Laurans Martial, Le Mao Patrick, Le Niliot P, Levrel Harold, Martin Jean Christophe, Marzin Anahita, Mongruel Remi, Morisseau F, Schoenn Jennifer, Thiebaut E, Vanhoutte Brunier Alice (2016). Marine Ecosystem Services Assessment to Support Marine Management, from Theory to Practice. 4th International Conference on Progress in Marine Conservation in Europe 2015. Proceedings of the Conference Stralsund, Germany, 14 - 18 September 2015. Editors Henning von Nordheim Katrin Wollny Goerke. 2016. ISBN 978-3-89624-188-7. BfN-Skripten 451. pp.161-171. <http://archimer.ifremer.fr/doc/00412/52339/>

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MOC02 [Th1] Allal Francois, Ferrari Sebastien, Horri Khaled, Vergnet Alain, Benhaim David, Vandeputte Marc, Chatain Beatrice, Begout Marie-Laure (2017). Heritability of boldness and hypoxia avoidance in European Seabass, *Dicentrarchus labrax*. AE2017 - Aquaculture Europe 2017, October 17-20 2017, Dubrovnik, Croatia.

MOC03 [Th1] Allal Francois, Ferrari Sebastien, Horri Khaled, Vidal Marie-Odile, Ruelle Francois, Vandeputte Marc, Chatain Beatrice, Begout Marie-Laure (2015). Heritability of coping styles in farmed European seabass. ISGA XII - International Symposium on Genetics in Aquaculture XII. June 21-27 2015, Santiago de Compostela, Spain.

MOC04 [Th2] Auber Arnaud (2015). Réchauffement climatique : Quel impact sur la ressource ? Assises de la pêche et des produits de la Mer. 16 - 17 juin 2015, Boulogne-sur-Mer.

MOC05 [Th2] Auber Arnaud (2017). Réponse fonctionnelle des communautés de poissons au changement climatique et à la pêche / Functional responses of fish communities to climate change and fishing in the Bay of Somme, Eastern English Channel, and North Sea. Réunion plénière EDF. 14 avril 2017, Penly.

MOC06 [Th2] Auber Arnaud (2017). Effets de la pêche et du climat sur la biodiversité de poissons en Manche et Mer du Nord. Réunion plénière EDF. 14 avril 2017, Penly.

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MOC09 [Th2] Auber Arnaud, Mc Lean Matthew James, Goberville Eric (2018). How could functional redundancy of the North Sea fish community change during the 21st century? 4th World Conference on Marine Biodiversity (WCMB). May 13-16 2018, Montréal.

- MOC10 [Th2]** Auber Arnaud, Travers-Trolet Morgane, Ernande Bruno, Villanueva Ching-Maria (2014). Regime shift in an exploited fish community related to climate variability. VECTORS meeting. 25 septembre 2014, Paris.
- MOC11 [Th2]** Auber Arnaud, Travers-Trolet Morgane, Villanueva Ching-Maria, Ernande Bruno (2014). Regime shift in an exploited fish community primarily driven by climate. SFI 2014 - Journées annuelles de la Société Française d'Ichtyologie, 9-10 avril 2014, Boulogne sur Mer.
- MOC12 [Th1]** Brophy Deirdre, Minto Coilin, Gerritsen Hans, Geffen Audrey, Mahe Kelig, Villanueva Ching-Maria, De Pontual Helene, Morales-Nin Beatriz, Hussy Karine (2018). Validating age-determination of anglerfish and hake: an exploratory investigation using microchemistry analysis. EU ETENDERS EASME Kick-off Meeting, 11 janvier 2018, DG MARE, Brussels.
- MOC13 [Th2]** Chouvelon Tiphaine, Cresson Pierre, Brach-Papa Christophe, Knoery Joel, Thomas Bastien, Marco-Miralles Françoise, Andral Bruno, Bouchoucha Marc, Fabri Marie-Claire, Bustamante Paco (2015). Hg bioaccumulation in deep-sea fauna: investigation of the influence of the trophic functioning at the base of food webs. 12th International Conference on Mercury as a Global Pollutant - ICMGP, 14th-19th June 2015, Jeju, Korea.
- MOC14 [Th2]** Cresson Pierre, Bouchoucha Marc, Marco-Miralles Françoise, Mahe Kelig, Morat Fabien, Chavanon Fabienne, Brach Papa Christophe, Knoery Joel, Fabri Marie-Claire, Cossa Daniel (2015). Un niveau de contamination chimique mesuré dans un poisson est-il toujours le reflet du niveau de contamination environnementale ? Colloque Qualité et Sécurité des Produits Alimentaires de l'ANSES, 17-19 Juin, Boulogne-sur-Mer.
- MOC15 [Th2]** Cresson Pierre, Bănaru Daniela, Briand Marine J, Chouvelon Tiphaine, Mauffret Aourel, Bustamante Paco, Mialet Benoit, Spitz Jerome, Wessel Nathalie, Harmelin-Vivien Mireille (2018). Different trophic functioning of fish assemblages in French marine subregions. ISOBAY 16 - XVth International Symposium of Oceanography of the Bay of Biscay. 5-7 June 2018, Anglet, France.
- MOC16 [Th2]** Cresson Pierre, Ernande Bruno, Giraldo Caroling, Lefebvre Sebastien, Rouquette Manuel, Travers-Trolet Morgane (2016). Effect of depth gradients on fish trophic relationships in the English Channel. Sfécologie-2016, International Conference of Ecological Sciences. 24-27 Octobre 2016, Marseille.
- MOC17 [Th2]** Cresson Pierre, Le Direach Laurence, Rouanet Elodie, Goberville Eric, Astruch Patrick, Ourgaud Melanie, Harmelin-Vivien Mireille (2018). Les traits fonctionnels révèlent l'influence des récifs artificiels sur les changements de biomasses de poissons autour des récifs artificiels. RIF 2018 - 7èmes Rencontres de l'Ichtyologie en France. 27-30 mars 2018, Paris.
- MOC18 [Th3]** Dubroca Laurent, Vigneau Joel, Cornou Anne-Sophie, Demaneche Sebastien, Weiss Jerome, Merzereaud Mathieu, Vermard Youen, Savina-Rolland Marie, Villanueva Ching-Maria, Schlaich Ivan, Pawlowski Lionel, Robert Marianne, Lissardy Muriel, Morandeau Gilles, Drogou Mickael, Fifas Spyros, Gadenne Helene, Lorange Pascal, Saraux Claire, Rouyer Tristan, Gontrand Florence (2016). Ptyx : data compilation at the edge of automation. ACL 2016 - ICES Annual Science Conference 2016. 19-23 september 2016, Riga.
- MOC19 [Th1]** Ferrari Sebastien, Allal Francois, Horri Khaled, Chatain Beatrice, Vandeputte Marc, Begout Marie-Laure (2015). La personnalité du bar... un caractère héritable. Journées annuelles du SFAM, 18-20 mars 2015, La Grande Motte, France.
- MOC20 [Th1]** Ferrari Sebastien, Horri Khaled, Allal Francois, Vandeputte Marc, Chatain Beatrice, Begout Marie-Laure (2015). Héritabilité du coping style chez le bar. SFECA 2015 - Colloque national de la Société française pour l'étude du comportement animal. 21-23 avril 2015, Strasbourg.
- MOC21 [Th2]** Giraldo C, Ernande B, Cresson P, Kopp D, Cachera M, Travers M, Lefebvre S (2016). Interactions between habitat use, isotopic niche variation and overlap among fish species in a temperate semi-enclosed sea. International Conference on Ecological Sciences. Conference of the French Ecological Society 24th-28th October. Marseille
- MOC22 [Th1]** Horri Khaled, Alfonso Sebastien, Cousin Xavier, Munschy Catherine, Loizeau Veronique, Joassard Lucette, Leguay Didier, Aroua Salima, Begout Marie-Laure, Ernande Bruno (2017). A Dynamic Energy Budget model of fish bioenergetics under exposure to realistic PCB and PBDE mixtures: consequences for life-history traits. DEB 2017 - Fifth international symposium on Dynamic Energy Budget theory. 31 mai-2 juin, Tromsø, Norvège.
- MOC23 [Th1]** Horri Khaled, Alfonso Sebastien, Munschy Catherine, Loizeau Veronique, Cousin Xavier, Begout Marie-Laure, Aroua Salima, Ernande Bruno (2016). A Dynamic Energy Budget model of

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- MOC24 [Th3]** Le Floc'h Pascal, Murillas Arantza, Aranda Martin, Daures Fabienne, Fitzpatrick Mike, Guyader Olivier, Hatcher Aaron, Macher Claire, Marchal Paul (2014). Fisheries management measures: incentives and governance issues implemented in European WW in the context of the CFP. 17th IIFET 2014 Conference : Towards ecosystem based management of fisheries: what role can economics play? 7-11 July 2014, Brisbane, Australia.
- MOC25 [Th2]** Lejart Morgane, Auvray Cedric, Barillier Agnes, Cadiou Bernard, Carlier Antoine, Delpech Jean-Paul, Folegot Thomas, Giry Cyril, Loaec Jean-Marie, Martinez Ludivine, Prevot Jehanne (2014). GHYDRO: Methodology guide for assessment of environmental impacts of tidal stream energy technologies at sea. 5th International Conference on Ocean Energy, 4 November 2014, Halifax. <http://archimer.ifremer.fr/doc/00230/34115/>
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- MOC27 [Th2]** Mc Lean Matthew James, Mouillot David, Auber Arnaud (2017). A new use of Principal Response Curves to describe spatiotemporal dynamics of fish functional traits in the Eastern English Channel. 3rd workshop on trait-based approaches to ocean life, 20-23 août 2017, Bergen, Norvège.
- MOC28 [Th1]** Mille Tiphaine, Mahe Kelig, Ernande Bruno, Villanueva Ching-Maria, De Pontual Helene (2014). Patron de morphogénèse des otolithes: sont-ils les mêmes entre l'otolithe gauche et l'otolithe droit? 8ème Symposium National de Morphométrie et d'Evolution des formes, 2-3 juin 2014, Dijon.
- MOC29 [Th1]** Mille Tiphaine, Mahe Kelig, Ernande Bruno, Villanueva Ching-Maria, De Pontual Helene (2014). Patron de morphogénèse des otolithes : sont-ils les mêmes entre l'otolithe droit et l'otolithe gauche? Journées 2014 de la Société Française d'Ichtyologie, 9-10 Avril 2014, Boulogne-sur-Mer.
- MOC30 [Th2]** Timmerman Charles-Andre, Cresson Pierre, Lefebvre Sebastien, Giraldo Carolina, Travers-Trolet Morgane, Rouquette Manuel, Ernande Bruno (2016). Découplage des réseaux trophiques benthiques et pélagiques en Manche: approche couplée isotopes et mercure. 28ème Forum des Jeunes Océanographes. 18 au 20 mai 2016, Cherbourg.
- MOC31 [Th2]** Timmerman Charles-Andre, Giraldo Carolina, Rouquette Manuel, Denamiel Margaux, Travers-Trolet Morgane, Lefebvre Sebastien, Ernande Bruno, Cresson Pierre (2018). La profondeur est-elle le seul facteur influençant les flux de matière en Manche ? RIF 2018 - 7èmes Rencontres de l'Ichtyologie en France. 27-30 mars 2018, Paris.
- MOC32 [Th3]** Travers-Trolet Morgane (2017). Reducing the gap between complex ecosystem models and their use in operational context. AMEMR 2017 - Advances in Marine Ecosystem Modelling Research. 3-6 July 2017, Plymouth.
- MOC33 [Th3]** Travers-Trolet Morgane, Vermard Youen, Bourdaud Pierre, Marchal Paul (2017). Effets des interactions trophiques et techniques sur la définition des points de référence MSY. 13e colloque de l'AFH « Pêches et Changements Globaux », 28 au 30 juin 2017, Ifremer, Nantes.
- MOC34 [Th1]** Vandeputte Marc, Horri Khaled, Allal Francois, Ferrari Sebastien, Vidal Marie-Odile, Ruelle Francois, Begout Marie-Laure, Chatain Beatrice (2015). Does early growth play a role in the sex determination of European seabass Dicentrarchus labrax? ISGA XII - International Symposium on Genetics in Aquaculture XII, June 21-27 2015, Santiago de Compostela, Spain.
- MOC35 [Th1]** Vandeputte Marc, Horri Khaled, Allal Francois, Ferrari Sebastien, Vidal Marie-Odile, Vergnet Alain, Begout Marie-Laure, Chatain Beatrice (2016). Sexe et croissance précoce chez le bar : des liens très étroits. 5èmes Journées de la Recherche Filière Piscicole. 05/07/2016 au 06/07/2016, Paris.
- MOC36 [Th3]** Wessel Nathalie, Brind'Amour Anik, Le Pape Olivier, Gascuel Didier, Baudrier Jerome, Feunteun Eric, Guerin Laurent, Foucher Eric, Biseau Alain, Feral Jean-Pierre, Vouriot Pauline, Serre Sandrine, Mialet Benoit, Safi Georges, Niquil Nathalie, Le Loc'h Francois, Terrier Isabelle, Lecomte Jean-Paul (2015). Développement d'indicateurs du BEE chez les poissons et

céphalopodes : état des lieux et besoins. 12ème colloque scientifique organisé par l'AFH "Les écosystèmes marins dans tous leurs états". Montpellier, 1-3 juillet 2015.

- MOC37 [Th1]** Filip A.M. Volckaert, Eveline Diopere, Gregory E. Maes, Bart Hellemans, Fabian Mollet, Adriaan Rijnsdorp, Bruno Ernande. (2018). A genetic basis for fisheries-induced life history changes in flatfish. Marine Evolution 2018, 15-17 May 2018, Strömstad, Sweden.
- MOC38 [Th1]** Mahé Kélig, Gourtay Clémence, Bled Defruit Geoffrey, Chantre Céline, de Pontual Héléne, Amara Rachid, Zambonino José-Luis, Ernande Bruno. (2018). How can environmental conditions (temperature and food composition) affect otolith shape during fish early-life stages: an experimental approach applied to seabass (*Dicentrarchus labrax*) ? 6th International Otolith Symposium 2018, 15 - 20 April 2018, Keelung, Taiwan
- MOC39 [Th1]** Kélig Mahé, Djamila Ider, Andrea Massaro, Oussama Hamed, Alba Jurado-Ruzafa, Patricia Gonçalves, Aikaterini Anastasopoulou, Angelique Jadaud, Chryssi Mytilineou, Romain Elleboode, Zohir Ramdane, Bruno Ernande, Rachid Amara, Helene de Pontual. (2017). Can otolith morphology asymmetry influence fish stock identification based on otolith shape analysis? Fifth International Symposium of Biological Shape Analysis, June 23-26 2017, Tokyo, Japan
- MOC40 [Th1]** Mahé Kélig, Etherton M., Dufour Jean-Louis, Elleboode Romain, Sévin Karine, de Pontual Héléne, Ernande Bruno (2016). Marginal increment analysis of fish otoliths: new insights across a range of species. ICES ICES Annual Science Conference, September 19-23, 2016, Riga, Latvia. H:99
- MOC41 [Th1]** Diopere Eveline, Maes Gregory E., Ernande Bruno, B. Hellemans B., Mollet Fabian, Rijnsdorp Adriaan D., Volckaert Filip A.M. (2014). Molecular genetic evidence for fisheries-induced evolution in the North Sea stock of sole. ICES Annual Science Conference, September 15-19, 2014, A Coruña, Spain. E:25.
- MOC42 [Th1]** Ernande Bruno, Mollet Fabian M., Engelhard Georg H., Vainikka Anssi, Laugen Ane T., Rijnsdorp Adriaan D. (2014). Latitudinal variation in female sole (*Solea solea*) life-history strategy in the Northeast Atlantic. ICES Annual Science Conference, September 15-19, 2014, A Coruña, Spain. E:14
- MOC43 [Th1]** Ernande Bruno, Mollet Fabian M., Engelhard Georg H., Vainikka Anssi, Laugen Ane T., Rijnsdorp Adriaan D. (2014). Variation latitudinale de la stratégie d'histoire de vie chez la sole femelle en Atlantique Nord Est. Journées 2014 de la Société Française d'Ichtyologie (Boulogne-sur-mer, France), April 9-10, 2014.
- MOC44 [Th1]** Heino Mikko, Ernande Bruno, Matsumura Shuichi, Rijnsdorp Adriaan D., Dieckmann Ulf, the WGEVO participants. (2014). How strong is fisheries-induced selection? A general framework for estimating fisheries-induced selection differentials. ICES Annual Science Conference, September 15-19, 2014, A Coruña, Spain. E:06
- MOC45 [Th1]** Marty Lise, Dieckmann Ulf, Ernande Bruno (2014). Fisheries-induced neutral and adaptive evolution and consequences for adaptive potential. ICES Annual Science Conference, September 15-19, 2014, A Coruña, Spain. E:26
- MOC46 [Th1]** Matsumura Shuichi, Heino Mikko, Ernande Bruno, Rijnsdorp Adriaan D., Dieckmann Ulf, the WGEVO participants (2014). How strong is fisheries-induced selection? An assessment of selection differentials caused by fishing ICES Annual Science Conference, September 15-19, 2014, A Coruña, Spain. E:02
- MOC47 [Th1]** Mille Tiphaine, Mahé Kélig, Ernande Bruno, Villanueva Ching, De Pontual Héléne (2014). Does diet influence otolith shape? 5th International Otolith Symposium (Mallorca, Spain), October 20-24, 2014
- MOC48 [Th2]** Auber Aranud, Travers-Trolet Morgane, Villanueva Maria C., Ernande Bruno (2013). Regime shift in an exploited fish community primarily driven by climate, only partly by fishing. ICES Annual Science Conference (Reykjavik, Iceland), September 23-27, 2013, B:06

4- Meeting and congress organisation

- MCO01 [Th1]** Mahé Kélig (2015). Comité Scientifique des Vle Rencontres de l'Ichtyologie en France Paris, Mars 2015.

- MCO02 [Th2]** Savina-Rolland Marie (2015). Steering Committee of the Atlantis (ecosystem model) Symposium. Hawaii, USA, December 2015.
- MCO03 [Th2]** Savina-Rolland Marie (2017). Steering Committee of the AMEMR (advances in marine ecosystem modelling research) Conference. Plymouth, UK, July 2017.
- MCO04 [Th3]** Ernande Bruno, Petitgas Pierre (2015) COFASP Case Study “Regionally-Integrated and Spatially-Explicit Fisheries and Ecosystem Management” (RISE-FEM) Open Meeting of the EraNet COFASP. CLORA, Brussels, Belgium. June 23-25, 2015.

5- Electronic tools and products

Software

- SOF01 [Th1]** Logiciel TNPC (Traitement Numérique des Pièces Calcifiées), version 7, 2017. Ifremer/Thermo Fisher Scientific.

Databases

- EDB01 [Th.2]** Cresson Pierre, Travers-Trolet Morgane, Rouquette Manuel, Timmerman Charles-André, Giraldo Carolina, Lefebvre Sebastien, Ernande Bruno (2017). Individual wet/dry conversion factors in English Channel fish muscle. SEANOE. <http://doi.org/10.17882/50798>
- EDB02-[Th2]** Cresson Pierre, Travers-Trolet Morgane, Rouquette Manuel, Denamiel Margaux, Auber Arnaud (2018). Individual isotopic ratio and trophic levels of fish species in the Eastern English Channel. SEANOE. <http://doi.org/10.17882/55585>
- EDB03 [Th1]** Mahe Kelig, Rabhi Khalef, Bellamy Elise, Elleboode Romain, Aumond Yoann, Huet Jerome, Roos David (2016). Biological Data for the brilliant pomfret (*Eumegistus illustris*) off the coast of Reunion Island (SW Indian Ocean) between March 2014 and March 2015. SEANOE. <http://doi.org/10.17882/42005>

Tools for decision-making

- ACL055 [Th2]** Girardin Raphael, Fulton Elizabeth A., Lehuta Sigrid, Rolland Marie, Thebaud Olivier, Travers-Trolet Morgane, Vermard Youen, Marchal Paul (2018). Identification of the main processes underlying ecosystem functioning in the Eastern English Channel, with a focus on flatfish species, as revealed through the application of the Atlantis end-to-end model. *Estuarine Coastal And Shelf Science*, 201, 208-222. Publisher's official version : <http://doi.org/10.1016/j.ecss.2016.10.016> , Open Access version : <http://archimer.ifremer.fr/doc/00354/46524/>

6- Instruments and methodology

Platforms and observatories

- IPO1 [Th1]** French National Sclerochronology Centre
- IPO2 [Th1]** Ichthyoplankton Taxonomy and Ecology Facility
- IPO3 [Th2]** Trophic Ecology Facility
- IPO4 [Th3]** CREDO: Coordination Facility for fisheries data processing and provision to end-users

7- Other products

Movies

- MOV01 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser des analyses de formes individuelles. SEANOE. <http://doi.org/10.17882/43107>
- MOV02 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des

- Pièces Calcifiées): réaliser des analyses de forme automatique à l'aide d'une base de données. SEANOE. <http://doi.org/10.17882/43108>
- MOV03 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser une conversion d'un set d'images d'un format à un autre format d'images. SEANOE. <http://doi.org/10.17882/43109>
- MOV04 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser des acquisitions multiples d'images d'otolithes en utilisant une platine motorisée. SEANOE. <http://doi.org/10.17882/43110>
- MOV05 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): formater un set d'images pour l'analyse de forme (Harmoniques de Fourier). SEANOE. <http://doi.org/10.17882/43111>
- MOV06 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): modifier la calibration d'un set d'images et l'intégrer dans une base de données. SEANOE. <http://doi.org/10.17882/43112>
- MOV07 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): appliquer un traitement sur un set d'images. SEANOE. <http://doi.org/10.17882/43113>
- MOV08 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser des acquisitions automatiques d'images d'otolithes en lumière réfléchie à l'aide d'un Scanner. SEANOE. <http://doi.org/10.17882/43114>
- MOV09 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser des acquisitions automatiques d'images d'otolithes en lumière transmise à l'aide d'un scanner. SEANOE. <http://doi.org/10.17882/43115>
- MOV10 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser et enregistrer une calibration. SEANOE. <http://doi.org/10.17882/43116>
- MOV11 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): réaliser des acquisitions multiples pour reconstruire une image en utilisant une platine motorisée. SEANOE. <http://doi.org/10.17882/43117>
- MOV12 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): paramétrer les critères d'incrustation des calibrations. SEANOE. <http://doi.org/10.17882/43118>
- MOV13 [Th1]** Elleboode Romain, Mahe Kelig (2016). Utilisation du logiciel TNPC (Traitement Numérique des Pièces Calcifiées): extraire la matrice des valeurs à partir d'une image binaire. SEANOE. <http://doi.org/10.17882/43120>

8- Editorial activities

Participation to journal editorial boards (books, collections)

Journal
ICES Journal of Marine Science
OIKOS

9- Peer reviewing activities

Reviewing of journal articles

Name/Journal	No. reviews
Acta Ichthyologica Piscatoria	2
Aquatic Ecology	1
Aquatic Environment Interactions	1
Can. J. Fisheries & Aquatic Science	3

Comptes Rendus Biologie	1
Cybium	4
Deep Sea Research I	1
Deep Sea Research II	1
Ecological Modelling	2
Ecology and Evolution	1
Ecology Letters	1
Ecotoxicology	1
Env. Science & Pollution Research	3
Env. Science & Technology	1
Europ J. Lipid Sci. & Technology	1
Estuaries & Coasts	1
Estuarine & Coastal Shelf Science	3
Evolutionary Applications	1
Fisheries Research	1
Food Webs	1
Geoscientific Model Development	1
Global Change Biology	1
Hydrobiologia	2
ICES Journal of Marine Science	10
Journal of Experimental Marine Biology and Ecology	2
Journal of Fish Biology	2
Journal of the Marine Biology Association UK	1
Journal of Sea Research	4
Marine and Coastal Fisheries	1
Marine Ecology Progress Series	2
Marine Environmental Research	2
Marine Policy	1
Marine Pollution Bulletin	1
Peer J	1
Plos One	2
Progress in Oceanography	5
Science of the Total Environment	3
Scientia Marina	1
Scientific Reports	1
Water, Air & Soil Pollution	1
TOTAL	75

Grant evaluation (public or charities)

Auber Arnaud (2016). Evaluation of a post-doctoral project funded by the IFREMER Scientific Direction. Title : Succession écologique des communautés animales associées aux sources hydrothermales : comparaison pluriannuelle entre deux systèmes de dorsales.

Cresson Pierre (2015). Evaluation d'un projet FONDECYT - session 2016 (CONICYT-Commission Nationale pour la recherche scientifique et technologique- Chili).

Ernande Bruno (2014). Evaluation of a post-doctoral project funded by the IFREMER Scientific Direction. Title : Modélisation spatio-temporelle de la diffusion d'un agent infectieux dans une métapopulation ostréicole : application au virus OsHV-1 et à la bactérie *Vibrio aestuarianus* infectant l'huître creuse (*Crassostrea gigas*)

Ernande Bruno (2015). Evaluation of a post-doctoral project funded by the IFREMER Scientific Direction. Title : Modelling benthic population distributions using a multi-agent modelling platform

Ernande Bruno (2014). Evaluation of 3 project proposals submitted to the Centre for the Synthesis and Analysis of Biodiversity (CESAB) of the Foundation for Research on Biodiversity (FRB).

Ernande Bruno (2015). Evaluation of 2 project proposals submitted to the Centre for the Synthesis and Analysis of Biodiversity (CESAB) of the Foundation for Research on Biodiversity (FRB).

Ernande Bruno (2018). Evaluation of 3 project proposals submitted to the Centre for the Synthesis and Analysis of Biodiversity (CESAB) of the Foundation for Research on Biodiversity (FRB).

Mahé Kélig (2015). Evaluation of a Europe Mer Call for project International cooperation with Brazil, Canada and US : Multi-time scale assessments of variability in two Brazilian marine systems : Amazon new biomes and Abrolhos bank. Sclerochronological approaches.

Marchal Paul (2015). Evaluation of a post-doctoral project funded by the IFREMER Scientific Direction. Title : Estimation de l'effort de pêche à partir de l'analyse de trajectoire : performance et sensibilité aux comportements collectifs.

Marchal Paul (2015). Evaluation of a post-doctoral project funded by the IFREMER Scientific Direction. Title : Co-viability assessment of ecological-economic marine systems.

Marchal Paul (2017). Evaluation of a post-doctoral project funded by the IFREMER Scientific Direction. Title : Evaluation de mesures optimales de gestion spatialisée : vers une gestion durable de pérennité des pêcheries et de conservation des ressources marines.

Participation to lab site visit committees (Hceres etc.)

Mahé Kélig (2015). Expert Technique pour l'accréditation du laboratoire Fisheries à l'ILVO (Belgium)- Norme ISO/IEC 17025.

Mahé Kélig (2017). Expert Technique pour l'accréditation du laboratoire Fisheries à l'ILVO (Belgium)- Norme ISO/IEC 17025.

Participation to institutional committees and juries (CNRS, INSERM, etc.)

Name	Acting as	Degree/Position	University	Date of viva/assessment
Carolina GIRALDO	Examiner (external)	Associate professor	ESPE-Lille-Nord-de-France	15/05/2018
Christophe LOOTS	Examiner (external)	Associate professor	ESPE-Lille-Nord-de-France	15/05/2018
Paul MARCHAL	Examiner (internal)	Thèse	Université du Havre	12/04/2018
Paul MARCHAL	Examiner (internal)	Thèse	Université du Littoral Côte d'Opale	23/01/2018
Bruno ERNANDE	Examiner (external)	Thèse	Université de Bretagne Occidentale	20/12/2017
Pierre CRESSON	Examiner (external)	Thèse	Université Perpignan Via Domitia	13/12/2017
Eric FOUCHER	Examiner (internal)	Thèse	Université de Caen	16/10/2017
Pierre CRESSON	Rapporteur	Thèse	Université des Iles Baléares	28/06/2017

Paul MARCHAL	Rapporteur	Thèse	Université de Toulouse	17/03/2017
Christophe LOOTS	Examiner (internal)	Thèse	Université du Littoral Côte d'Opale	13/12/2016
Paul MARCHAL	Examiner (internal)	Thèse	Université du Littoral Côte d'Opale	13/12/2016
Morgane TRAVERS	Examinor (external)	Thèse	Université de Bretagne Occidentale	05/12/2016
Paul MARCHAL	External Assessor	Professorship	University of Manitoba	17/11/2016
Paul MARCHAL	Rapporteur	Thèse	Université de Montpellier	30/06/2016
Kélig MAHE	Examiner (external)	Thèse	Université de Paris-Sorbonne	18/05/2016
Bruno ERNANDE	Examiner	Associate professor	Univeristé du Littoral Côte d'Opale	12/05/2016
Bruno ERNANDE	Examiner (internal)	Thèse	Université de Lille	17/12/2015
Paul MARCHAL	Rapporteur	Thèse	Université de Montpellier	14/12/2015
Paul MARCHAL	Rapporteur	PhD thesis	University of Aberdeen	15/01/2015
Paul MARCHAL	Rapporteur	Thèse	Agrocampus Ouest	19/12/2014
Bruno ERNANDE	Examiner (external)	Thèse	Ecole Normale Supérieure	16/05/2014
Paul MARCHAL	Rapporteur	HDR	Université de Rennes 1	14/01/2014
Bruno ERNANDE	Examiner (internal)	Thèse	Université de Lille	18/12/2013
Paul MARCHAL	Rapporteur	PhD thesis	Imperial College	01/07/2013
Paul MARCHAL	Examiner (external)	Thèse	Université de Caen	17/06/13

10-Academic research grants

52 projects were funded over the period 2013-2018. The most selective are highlighted in this Section (CO: project coordinator, WP: WP leader, PA: project key partner).

European (ERC, H2020, etc.) and international (NSF, JSPS, NIH, World Bank, FAO, etc.) grants

Project name	Period	Role	No. Partners	Funding (k€)		
				Source	Total	HMMN
VECTORS - Vectors of change in marine life, impact on economic sectors	2011-15	WP	37	FP7	12,000	400
SOCIOEC – Socio-economic effects of the 2013 Common Fisheries Policy	2012-15	WP	25	FP7	3,000	200
DISCARDLESS - Strategies for the gradual elimination of discards in European fisheries	2015-19	WP	31	H2020	5,000	275
MEMO – Mnemiopsis Leidy Ecology Modelling and Observation	2010-13	WP	5	Interreg	3,500	310

PANACHE – Protected Area Network Across the Channel Ecosystem	2011-15	PA	12	Interreg	2,400	310
PEGASEAS – Promoting effective governance of the Channel Seas	2013-15	PA	12	Interreg	1,200	60
SUMARIS – Sustainable management of rays and skates	2017-20	WP	6	Interreg	1,200	230
COCKTAIL – Climate change effects on fish larvae	2018-21	CO	2	AMI ¹	-	100
SOMBEE – Scenarios Of Marine Biodiversity and Evolution under Exploitation and climate change	2019-2022	WP	10	ERANet Biodiversa – Belmont Forum	1,300	130

National public grants (ANR, PHRC, FUI, INCA, etc.)

Project name	Period	Role	No. Partners	Funding (k€)		
				Source	Total	HMMN
COMANCHE – Ecosystem interactions and anthropogenic impacts on king scallop populations in the English Channel	2011-14	CO	11	ANR	1,000	460
FISH'N'POP – Fate and effects of persistent organic pollutants (PCBs, PBDEs) on fish reproduction, development and progeny survival	2013-16	WP	5	ANR	400	²
EMIBIOS – End-to-end modelling and indicators for biodiversity scenarios	2011-14	PA	9	FRB	260	60
CPER MARCO – Marine and Coastal Research on the Opal Coast	2014-20	WP	8	CPER	7,000	700

Local grants ("collectivités territoriales")

Project name	Period	Role	No. Partners	Funding (k€)		
				Source	Total	HMMN
ECLIPSE - Climate and fishing effects on fish communities in the Bay of Somme, Eastern English Channel and North Sea.	2015-18	CO	3	FRB-HDF-EDF	34	34
1 PhD grant	2012-15	-	1	Hauts-de-France	50	50
4 PhD grants	>2013	-	1	PMCO	200	200
1 PhD grant	2014-17	-	1	Basse Normandie	50	50
1 PhD grant	2014-18	-	1	Haute Normandie	50	50

PIA (Labex, Equipex etc.) grants

Project name	Period	Role	No. Partners	Funding (k€)		
				Source	Total	HMMN
1 PhD grant	2018-21	PA	2	ISIT Lille	250	50

Grants from foundations and charities (ARC, FMR, FRM, etc.)

¹ French-German partnership between Ifremer and the Alfred Wegener Institute

² HMMN is not managing Ifremer funds

Project name	Period	Role	No. Partners	Funding (k€)		
				Source	Total	HMMN
DYSTRETE – Dynamique spatio-temporelle du rouget-barbet et de son exploitation	2014-17	CO	2	FFP	150	130
SMAC – Improvement of knowledge on Eastern Channel sole for a better management	2015-19	CO	8	FFP DPMA Regions	1,000	750
VARITROPH – Temporal and ontogenic variation of trophic parameters in the English Channel and the North Sea	2017-20	CO	2	FFP FEAMP	278	258
RESTICLIM – Réponse fonctionnelle des communautés ichthyologiques au changement climatique en Baie de Somme, Manche orientale et Mer du Nord.	2016-19	CO	2	EDF	19	19
SUCCESS – Larval condition study of sole and sprat in the English Channel and North Sea	2016-19	CO	3	EDF	15	15

11- Visiting senior scientists and post-doc

Post-docs

Name	Nationality	Former University / Institute	Funding	Start	End	Theme	Main article
Arnaud AUBER	France	INRA (Rennes)	IFREMER / FRB	07/12	01/14	2	ACL004
Sigrid LEHUTA	France	Gulf of Maine Research Institute (Portland, USA)	IFREMER / FP7	12/12	11/13	3	MPR1
Yves REECHT	France	IFREMER (Brest)	IFREMER / Interreg	05/13	11/14	3	MPR4
Carolina GIRALDO	Colombie	Directorate of Fisheries & Ocean (Canada)	Region Hauts de France	12/15	11/16	2	ACL053
Cecilia PINTO	Italie	University of Aberdeen (UK)	IFREMER / FFP	03/17	06/17	1	<i>In Prep.</i>
Jimena TORRES ELGUETA	Chili	Université de Magallanes (Chili)	Bourse chilienne	06/17	07/17	1	<i>In Prep.</i>
Chloe BRACIS	USA	Senckenberg Biodiversity & Climate Research Center (Germany)	IFREMER	06/18	...	2	<i>In Prep.</i>

Visiting senior scientists

Name	Nationality	Title	Type	Start	End	Theme	Main article
James WILLIAMS	New Zealand	Senior Scientist at NIWA (Auckland, New Zealand) – Fisheries ecologist	Visit	10/2013	10/2013	3	-
Elvire ANTAJAN	France	Senior Scientist in IFREMER Unit LITTORAL – Zooplankton ecology	Secondment	01/2017	...	1	ACL037
Sébastien LEFEBVRE	France	Professor in University of Lille – Trophic ecology	Secondment	02/2017	07/18	2	ACL018

12- Scientific recognition

Prize

Timmerman CA (2016). Prix de la meilleure communication orale. 28^{ème} forum des jeunes océanographes. Cherbourg, 18-20 mai.

Timmerman CA (2018). 2^{ème} prix de la meilleure communication orale. 7^{èmes} rencontres de l'ichtyologie en France. Paris, 27-30 mars .

Chair of learned and scientific societies

ICES (2013). Working Group 2 on North Sea Cod and Plaice Egg Surveys in the North Sea (WGEGGS2), 10 October 2013, Bergen, Norway. ICES CM 2013/SSGESST:16. 19 pp. Chair : Christophe Loots.

ICES (2013). Working Group for Celtic Seas Ecoregion (WGCSE) 8–17 May 2013 Copenhagen, Denmark . CIEM / ICES , Ref. ICES CM 2013/ACOM:12 , 1253p. <http://archimer.ifremer.fr/doc/00166/27682/>. Chair : Joël Vigneau.

ICES (2013). Second Workshop of National Age Readings Coordinators (WKNARC2), 13 - 17 May 2013, Horta, Azores. ICES CM 2013/ACOM:52. 65 pp. Co-chair: Kélig Mahé.

ICES (2014). Working Group 2 on North Sea Cod and Plaice Egg Surveys in the North Sea (WGEGGS2), 2 October 2014, Boulogne sur Mer, France. ICES CM 2014/SSGESST:18. 16 pp. Chair : Christophe Loots.

ICES (2014). Working Group on Fisheries-Induced Evolution. Co-chair: Bruno Ernande.

ICES (2015). Working Group 2 on North Sea Cod and Plaice Egg Surveys in the North Sea (WGEGGS2), 24 March 2015, Bergen, Norway. ICES CM 2015/SSGIEOM:26. 15pp. Chair : Christophe Loots.

ICES (2015). Working Group on Fisheries-Induced Evolution. Co-chair: Bruno Ernande.

ICES (2015). Workshop on Age Reading of Saithe (*Pollachius virens*) (WKARPV), Boulogne sur mer. France. Co-chair: Kélig Mahé.

ICES (2015). Workshop on Age reading of Seabass (*Dicentrarchus labrax*) (WKARDL), Lowestoft. UK England. Co-chair: Kélig Mahé.

ICES (2015). Workshop on Age reading of Horse Mackerel, Mediterranean Horse Mackerel and Blue Jack Mackerel (*Trachurus trachurus*, *T. mediterraneus* and *T. picturatus*) (WKARHOM2), Canary Islands, Spain. Co-chair: Kélig Mahé.

ICES (2015). Working Group on Integrative Physical-biological and Eco-system Modelling (WGIPEM), 16–19 March 2015, Plymouth Marine Laboratory, UK. ICES CM 2015/SSGIEA:01. 28 pp. Chair: Morgane Travers-Trolet.

ICES (2016). Working Group on Fisheries-Induced Evolution. Chair: Bruno Ernande.

ICES (2016). Working Group on Integrative Physical-Biological and Ecosystem Modelling (WGIPEM), 6-8 June 2016, Brest, France. ICES CM 2016/SSGIEA:01. 27 pp. Chair: Morgane Travers-Trolet.

NAFO (2016). Scientific Council Meeting. 03 -16 June 2016, Halifax, Nova Scotia. Serial No. N6587 NAFO SCS Doc. 16-14 Rev. Chair: Joël Vigneau.

ICES (2017). Working Group on Fisheries-Induced Evolution. Chair: Bruno Ernande.

ICES (2017). Working Group on Data Needs for Assessments and Advice (PGDATA). 7-10 February 2017, Nantes, France. ICES CM 2017/SSGIEOM: 03. Chair: Joël Vigneau.

ICES (2017). Workshop on Ageing Validation methodology of Mullus species (WKVALMU), 15-19 May 2017, Conversano, Italy. ICES CM 2017/SSGIEOM:31. 74 pp. Co-chair: Kélig Mahé.

ICES (2017). Working Group on Integrative Physical-Biological and Ecosystem Modelling. WGIPEM 2017 REPORT 13-15 June 2017. Oristano, Italy. ICES CM 2017/SSGIEA:01. 21 pp. Chair: Morgane Travers-Trolet.

NAFO (2017). Scientific Council Meeting. 01 -15 June 2017, Halifax, Nova Scotia. Serial No. N6718 NAFO SCS Doc. 17-16 REV. Chair: Joël Vigneau.

STECF (2017). Quality Assurance for DCF data (STECF-17-11). Publications Office of the European Union, Luxembourg, 2017. JRC107587. EUR 28359 EN. ISBN 978-92-79-67483-9. ISSN 1831-9424. ISSN 2467-0715 . <http://doi.org/10.2760/68025>. Chair: Joël Vigneau.

ICES (2018). Report of the Planning Group on Data Needs for Assessments and Advice (PGDATA) 13 – 16 February 2018 Nantes, France. ICES CM 2018/EOSG: 02. Chair: Joël Vigneau.

ICES (2018). Workshop on Age Estimation Methods of Deep Water Species (WKAMDEEP2), Cadiz, Spain. Co-chair: Kélig Mahé.

ICES (2018). Workshop on Age reading of Horse Mackerel, Mediterranean Horse Mackerel and Blue Jack Mackerel (*Trachurus trachurus*, *T. mediterraneus* and *T. picturatus*) (WKARHOM3), Livorno, Italy (Co-chair: Kélig Mahé).

Invitations to meetings and symposia (out of France)

Bruno Ernande. (2013). Harvest-induced life-history evolution in exploited fish populations: empirical evidence and forecasting of evolutionary changes and their demographic consequences. ALTER-Net Conference 2013, Science underpinning the EU 2020 Biodiversity Strategy April 15-18, 2013, Ghent, Belgium.

Bruno Ernande. (2017). Effects of global change on exploited fish stocks' life-history traits: Exploitation vs. environment & Evolution vs. phenotypic plasticity. International Flatfish Symposium, November 11-16, 2017, Saint Malo, France.

II - INTERACTIONS WITH THE NON-ACADEMIC WORLD, IMPACTS ON ECONOMY, SOCIETY, CULTURE OR HEALTH

1- Socio-economic interactions / Patents

NA

2- Socio-economic interactions

Industrial and R&D contracts

Project name	Period	Funding (k€)		
		Source	Total	HMMN
ICHTUS – Ichthyoplanktonic studies on potential usage areas	2014-	CREOCEAN	96	96
NEEDS-Environnement - Poissons IRSN – Uranium	2016	IRSN	42	11

3- Expertise

Consulting

ECO1 [Th1] Mahé Kélig (2018). Consulting en informatique appliquée au Traitement Numérique de Pièces Calcifiées, 12 jours, Centre National de Recherche et de Développement de la Pêche et

l'Aquaculture et du Ministère de l'agriculture, du développement durable et de la pêche d'Algérie.

Participation in expert committees (ANSES etc.)

EEC1 [Th3] Marchal Paul (2017). Review of ICES response to EC DG MARE Request 170215_SpratBox – Evaluation of ICES HAWG16 WD6.

4- Expert and standardization reports

The **top 20% reports** are highlighted in yellow; the **remaining 80% reports** are highlighted in grey.

Expertise / Advice-giving / Minutes

EAM1 [Th3] Vermard Youen (2013). Evolution de l'effort des senneurs hollandais en Manche Est. DPMA - Direction des Pêches Maritimes et de l'Aquaculture., Ref. RBE/EDERU/2013/Rexp1-2, 5p., 2p.

EAM2 [Th3] Vermard Youen, Demaneche Sebastien, Berthou Patrick, Biseau Alain (2013). Réponse à la saisine DPMA 13-4740 sur l'activité de pêche en Manche est des flottilles françaises et néerlandaises. DPMA - Direction des Pêches Maritimes et de l'Aquaculture., Ref. Ifremer/RBE/EDERU/2013/S01, 2p., 3p.

EAM3 [Th3] Vigneau Joel, Goraguer Herle, Biseau Alain, Mahe Jean-Claude, Laurans Martial, Foucher Eric (2013). St-Pierre et Miquelon : Perspectives pour une exploitation durable des ressources halieutiques. DPMA - Direction des Pêches Maritimes et de l'Aquaculture., Ref. RBE/EDERU/13-4834, 6p. <http://archimer.ifremer.fr/doc/00125/23636/>

EAM4 [Th3] Vigneau Joel, Goraguer Herle, Biseau Alain, Mahe Jean-Claude, Laurans Martial, Foucher Eric (2013). Réponse à la saisine DPMA 13-4834 sur les ressources halieutiques dans les eaux entourant Saint-Pierre et Miquelon. DPMA - Direction des Pêches Maritimes et de l'Aquaculture, Ref. RBE/EDERU/13-4834, 4p., 2p.

Expertise

EXP01 [Th3] Alemany Juliette, Foucher Eric, Rivot Etienne, Vigneau Joel, Robin Jean-Paul (2016). Stock assessment of the English Channel stock of cuttlefish with a two-stage biomass model. ICES Working Group on Cephalopod Fisheries and Life History (WGCEPH), Ref. ICES CM 2015/SSGEPD:02 pp.84-98, 16p. <http://archimer.ifremer.fr/doc/00377/48774/>

EXP02 [Th3] Alemany Juliette, Rivot Etienne, Foucher Eric, Vigneau Joel, Robin Jean-Paul (2017). Update of the English Channel cuttlefish stock assessment with a Bayesian two-stage biomass model. ICES Working Group on Cephalopod Biology and Life History (WGCEPH). 14-17 June 2016, ICES Headquarters, Copenhagen, Denmark, Ref. Working document 3., 18p. <http://archimer.ifremer.fr/doc/00377/48775/>

EXP03 [Th3] Biais Gerard, Biseau Alain, Gadenne Helene, Vigneau Joel (2015). Eléments de base pour la définition d'un protocole scientifique en vue d'obtenir un indice d'abondance. DPMA - Direction des Pêches Maritimes et de l'Aquaculture, Paris, Ref. Ifremer/PDG/AB/2015/065-1, 4p., 2p., 6p.

EXP04 [Th3] Biseau Alain, Dubroca Laurent, Lissardy Muriel (2017). Evluation des mesures de gestion mises en place sur la pêcherie de sole du golfe de Gascogne depuis 2015 et analyse de la pertinence de ce cadre de gestion en vue de la campagne de pêche 2018. DPMA - Direction des Pêches Maritimes et de l'Aquaculture, Paris, Ref. RBE/EDERU/2017/S5 - Ifremer/PDG/AB/2017 - n°114 - Saisine/Demande : 17-11452, 4p., 17p., 3p.

EXP05 [Th3] Biseau Alain, Lissardy Muriel, Marre Guilhem, Daures Fabienne, Macher Claire, Merzereaud Mathieu, Le Grand Christelle, Gourguet Sophie, Berthou Patrick, Lehuta Sigrid, Vermard Youen, Savina-Rolland Marie (2015). Evaluation de l'impact de scénarios alternatifs pour l'atteinte du RMD et de mesures de gestion pour les stocks de sole de Manche Est et du golfe de Gascogne et de gadidés de mer Celtique (cabillaud, églefin, merlan). DPMA - Direction des Pêches Maritimes et de l'Aquaculture, Paris, Ref. Ifremer/PDG/AB/2015/195, 2p., 1p., 33p., 12p., 10p., 11p., 12p., 12p.

EXP06 [Th3] Cochard Marie-Laure, Menet-Nedelec Florence, Vigneau Joel (2017). Gisement de coques de la Pointe de Brevands. DDTM 50 - Direction Departementale des Territoires et de la Mer de

la Manche, Cherbourg Octeville, Ref. RH/PB/17-026, 4p.

- EXP07 [Th2]** Comité scientifique relatif au projet de parc éolien en mer au large de Fécamp (2018). Avis du comité scientifique relatif aux protocoles de suivi des mesures dont l'état de référence est établi sur deux années avant les travaux. Préfecture de Seine-Maritime, Rouen, Ref. Avis n°2018-1, 3p., 1p.
- EXP08 [Th3]** Demaneche Sebastien, Jadaud Angelique, Dubroca Laurent, Cornou Anne-Sophie, Weiss Jerome, Vigneau Joel, Biseau Alain (2016). Saisine 16-9877: "Répartition des captures des différentes espèces de rougets selon les segments de flotte du golfe du Lion et l'Impact d'une augmentation de l'effort d'échantillonnage sur la précision des estimations de débarquements de diverses espèces". DPMA - Direction des Pêches Maritimes & de l'Aquaculture, La Défense, Ref. Ifremer/PDG/AB/2016 - n°147 - 009877, 2p., 2p., 21p.
- EXP09 [Th2]** Dreves Luc, Vogel Camille, Desroy Nicolas, Simplet Laure (2016). Commentaires de l'Ifremer sur le projet d'arrêté préfectoral portant autorisation d'ouverture de travaux miniers dans le cadre de la concession de granulats marins dite "Granulats Marins Havrais". Préfecture de la Seine-Maritime - Direction de la coordination des politiques de l'Etat -Bureau des procédures publiques, Ref. Ifremer CMMN/ST/PB/2016-028 - courrier DREAL du 23 septembre 2016 et mail du 11 octobre 2016, 4p.
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- EXP11 [Th3]** Foucher Eric, Berthou Patrick, Daures Fabienne, Demaneche Sebastien, Biseau Alain (2016). Saisine 16-9896: "Eléments d'analyse concernant la dynamique et la gestion du stock de coquille Saint-Jacques de la baie de Seine". DPMA - Direction des Pêches Maritimes & de l'Aquaculture, La Défense, Ref. Ifremer/PDG/AB/2016 - N° 073 - 009896, 2p., 2p., 52p.
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- EXP17 [Th3]** ICES (2013). Report of the Working Group on Mixed Fish-eries Advice for the North Sea (WGMIXFISH-NS). 20-24 May 2013 ICES Headquarters, Copenhagen. CIEM / ICES, Ref. ICES CM 2013/ACOM:22, 115p. <http://archimer.ifremer.fr/doc/00166/27688/>
- EXP18 [Th3]** ICES (2013). Report of the Working Group on Elasmobranch Fishes (WGEF). 17–21 June 2013, Lisbon, Portugal. CIEM / ICES, Ref. ICES CM 2013/ACOM:19, 688p. <http://archimer.ifremer.fr/doc/00166/27693/>
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EXP23 [Th1] ICES (2015). Report of the Workshop on Age Reading of Saithe (*Pollachius virens*) (WKARPV) 26-29 May 2015 Boulogne-sur-mer. ICES, Ref. ICES CM 2015/SSGIEOM:15, 43p.<http://archimer.ifremer.fr/doc/00272/38280/>

EXP24 [Th1] ICES (2015). Report of the Workshop on Age Reading of Sea Bass (*Dicentrarchus labrax*) (WKARDL). 15–19 June 2015 Lowestoft, UK. ICES, Ref. ICES CM 2015/SSGIEOM:13, 40p.<http://archimer.ifremer.fr/doc/00276/38683/>

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EXP26 [Th1] ICES (2014). Workshop on micro increment daily growth in European Anchovy and Sardine (WKMIAS). 21-25 October 2013 Mazara del Vallo, Sicily. ICES, Ref. ICES CM 2013/ACOM:51, 157p.<http://archimer.ifremer.fr/doc/00201/31201/>

EXP27 [Th3] ICES (2014). Report of the Working Group on Elasmobranch Fishes (WGEF), 17–26 June 2014 Lisbon, Portugal. Draft. CIEM, Ref. ICES CM 2014/ACOM:19, 681p.

EXP28 [Th1] ICES (2014). Interim Report of the Working Group on Fisheries-Induced Evolution (WGEVO). 7-11 July 2014 IJmuiden, the Netherlands. CIEM/ICES, Ref. ICES CM 2014/SSGSUE:04, 11p.<http://archimer.ifremer.fr/doc/00225/33613/>

EXP29 [Th3] ICES (2015). Report of the Benchmark Workshop on Plaice (WKPLE). 23-27 February 2015. ICES Headquarters, Copenhagen, Denmark. ICES, Ref. ICES CM 2015/ACOM:33, 203p.<http://archimer.ifremer.fr/doc/00287/39867/>

EXP30 [Th3] ICES (2015). Report of the Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK). 28 April - 7 May ICES HQ, Copenhagen, Denmark. ICES, Ref. ICES CM 2015/ACOM:13, 1047p.<http://archimer.ifremer.fr/doc/00288/39944/>

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EAG17 [Th1] Thillaye Du Boullay Herve, Dreves Luc (2015). Rapport d'expertise. La surveillance des CNPE en bord de mer. Eléments d'aide à la réflexion sur la pertinence d'un échantillonnage systématiquement identique à celui proposé par la DCE ?EDF/CIDEN, Ref. ODE/Littoral/LER-N/2015-04, 29p.

EAG18 [Th3] Vigneau Joel, Biseau Alain, Cochard Marie-Laure, Morandeau Fabien, Scavinner Marion (2015). Evaluation de l'impact du chalut à maquereau sur la sole commune et son renouvellement dans les zones de nourricerie. DIRM-MEMN - Direction Inter-Régionale de la Mer Manche-Est mer du Nord, Ref. HMMN/RHPEB/15-006b, 6p.

EAG19 [Th3] Vigneau Joel, Biseau Alain, Cochard Marie-Laure, Vermard Youen (2015). Evaluation de l'impact de la drague à moules sur la sole commune et son renouvellement dans les zones de nourricerie. DIRM-MEMN - Direction Inter-Régionale de la Mer Manche-Est mer du Nord, Ref. HMMN/RHPEB/15-006a, 5p.

EAG20 [Th2] Ybert Sebastien, Desroy Nicolas, Menet-Nedelec Florence, Simplet Laure, Schlaich Ivan, Vogel Camille (2016). Avis de l'Ifremer sur le dossier d'autorisation au titre des articles R. 214-1 et suivants du code de l'environnement du projet d'interconnexion électrique entre la France et la Grande-Bretagne via l'île d'Aurigny (FAB). Préfecture de la Manche/DAECD/BCPA - Préfecture de la Manche, Direction de l'Action Economique et de la Coordination Départementale, Bureau de la Coordination des Politiques publiques et des Actions interministérielles, Saint-Lô, Ref. DC/MMN/2016.189 - Courrier du 12 juillet 2016, 20p.

5- Public outreach

Medias (01/01/2016-30/06/2018)

Year	Print medias	Web	TV	Radio	Total
2018	2	2	2	0	6
2017	41	32	4	1	78
2016	22	29	2	0	53
2013-15 ³	-	-	-	-	-

Other popularization outputs

P. Bourdaud, R. Girardin, CA Timmerman, K Horri (2016, 2017, 2018). Organisation of the Pint of Science festival, Boulogne s/mer.

M. Savina-Rolland, C. Pinto, P. Cresson (2016, 2017). Oral presentations during the Pint of Science festival, Boulogne s/mer.

HMMN (2013, 2015, 2017). Presentation of HMMN activities (sclerochronology, stomach contents analyses) during the « Fêtes de la Mer », in Boulogne s/mer.

Debates on science and society

Auber Arnaud (2015). Global warming: Which impacts on resources? Oral presentations during the 'Assises de la pêche et des produits de la Mer'. 16 - 17 juin 2015, Boulogne s/mer.

Auber Arnaud (2016, 2018). ECLIPSE project. Press conference on 'Thalassa' research vessel, Boulogne s/mer.

³ Media-records were comprehensively centralized by the IFREMER Communication Direction since 2016. Records from 2013-2015 are fragmented and are not shown, as they cannot be compared with the post-2016 period.

Morgane Travers-Trolet (2016). The Channel Ground Fish Survey. Press conference on 'Thalassa' research vessel, Boulogne s/mer.

Yves Vérin (2013, 2014, 2015, 2016, 2017, 2018). Preliminary results from the IBTS survey. Press conference on 'Thalassa' research vessel, Boulogne s/mer.

Youen Vermard, Christophe Loots (2016). The use of IBTS survey data for ICES working groups. Press conference on 'Thalassa' research vessel, Boulogne s/mer.

III - INVOLVEMENT IN TRAINING THROUGH RESEARCH

1- Educational outputs

Teaching activities

Year	Enseignant	Level	No. Hours	Output
2018	Kélig MAHE	Master 1 – Génie biologique	4.5	PPT/Local
2018	Kélig MAHE	DUT 2 ^{ème} année – Génie biologique - ULCO	6	PPT/Local
2017	Pierre CRESSON	M2 FOGEM - ULCO / U. Lille I	3	PPT/Local
2017	Pierre CRESSON	M1 FOGEM – ULCO	4	PPT/Local
2017	Eric FOUCHER	L3 Pro – Université de Caen	25	PPT/Local
2017	Christophe LOOTS	DUT 2 ^{ème} année – Génie biologique - ULCO	19	PPT/Local
2017	Kélig MAHE	M1 Génie biologique - ULCO	4.5	PPT/Local
2017	Kélig MAHE	DUT 2 ^{ème} année – Génie biologique - ULCO	6	PPT/Local
2016	Pierre CRESSON	Bac Pro - Production Aquacoles, Lycée Professionnel Coulogne	2	PPT/Local
2016	Bruno ERNANDE	M1 FOGEM ULCO	2	PPT/Local
2016	Bruno ERNANDE	M2 FOGEM ULCO / Université de Lille	3	PPT/Local
2016	Eric FOUCHER	L3 Pro – Université de Caen	8	PPT/Local
2016	Christophe LOOTS	DUT 2 ^{ème} année – Génie biologique - ULCO	19	PPT/Local
2016	Kélig MAHE	M1 Génie biologique - ULCO	4.5	PPT/Local
2016	Kélig MAHE	DEUST 2 ^{ème} année – Génie biologique - ULCO	6	PPT/Local
2015	Bruno ERNANDE	Master 1 – FOGEM ULCO	2	PPT/Local
2015	Bruno ERNANDE	Master 2 – FOGEM ULCO / Université de Lille	3	PPT/Local

2015	Bruno ERNANDE	Module Doctoral – Université de Montpellier	3	PPT/Local
2015	Christophe LOOTS	DUT 2 ^{ème} année – Génie biologique	19	PPT/Local
2015	Kélig MAHE	Master 1 – Génie biologique	4.5	PPT/Local
2015	Kélig MAHE	DEUST 2 ^{ème} année – Génie biologique	6	PPT/Local
2014	Bruno ERNANDE	Master 2 – FOGEM ULCO / Université de Lille	3	PPT/Local
2014	Bruno ERNANDE	Module Doctoral – Université de Montpellier	3	PPT/Local
2013	Bruno ERNANDE	Master 2 – FOGEM ULCO / Université de Lille	3	PPT/Local
2013	Bruno ERNANDE	Module Doctoral – Université de Montpellier	3	PPT/Local

2- For humanities only, published PhD theses

NA

3- Quality of PhD student supervision

PhD students

Student	Start (DD/MM/YY)	Date of viva (DD/MM/YY)	Subject [Theme]	University	Funding	Top 2 products to date [International, National]	Current employment
Charles-André TIMMERMAN	01/10/17	...	Seasonal and spatial variation in trophic parameters of the main species exploited in the English Channel & North Sea [Th2]	Université de Lille Nord de France	FEAMP (100%)	ACL032 [I] MPO21 [N]	PhD thesis ongoing
Julien DI PANE	01/10/16	...	Environmental influences on the success of fish larval ecophases in the Eastern English Channel & Southern North Sea [Th1]	Université du Littoral Côte d'Opale	IFREMER (50%) Pôle Métropolitain de la Côte d'Opale (50%)	<i>In Prep.</i>	PhD thesis ongoing
Kélig MAHE	01/10/16	...	Evolution in space and time of otolith shape: applications to exploited fish population studies [Th1]	Université du Littoral Côte d'Opale	IFREMER (100%), formation qualifiante	ACL095 [I], MPO02 [I]	IFREMER, permanent employment
Matthew McLEAN	01/11/16	...	Functional responses of fish communities to climate change in the Baie de Somme, Eastern English Channel & North Sea [Th2]	Université du Littoral Côte d'Opale	IFREMER (50%) Pôle Métropolitain de la Côte d'Opale (50%)	MOC09 [I], MOC27 [I]	PhD thesis ongoing

Khaled HORRI	01/11/14	12/04/18 41 months	Demographic and evolutionary effects of an exposure to persistent organic pollutants on marine fish populations [Th1]	Université du Havre	IFREMER (50%) Région Haute-Normandie (50%)	ACL065 [!], MOC22 [!]	Post-doc (University of Corte, France)
Pierre BOURDAUD	01/12/14	23/01/18 38 months	Impact of a landing obligation on coupled dynamics ecosystem-fishers: individual-based modelling approach applied to Eastern English Channel [Th3]	Université du Littoral Côte d'Opale	IFREMER (50%) Pôle Métropolitain de la Côte d'Opale (50%)	ACL14 [!], <i>In Print</i> [!]	Post-doct (University of Cape Town, South Africa)
Juliette ALEMANY	01/10/14	16/10/17 37 months	Development of a Bayesian framework for data limited stocks assessment methods and management scenarios. Application to two study cases, cuttlefish and pollack [Th3]	Université de Caen Basse Normandie	IFREMER (50%) Région Basse-Normandie (50%)	ACL001 [!] MPO03 [!]	IFREMER, temporary contract
Jérémy DENIS	01/10/13	13/12/16 38 months	Ontogenetic shift in the larval condition of Downs herring, a winter spawning fish [Th1]	Université du Littoral Côte d'Opale	IFREMER (50%) Pôle Métropolitain de la Côte d'Opale (50%)	ACL036 [!], ACL037 [!]	Job searching
Tiphaine MILLE	01/10/12	17/12/15 38 months	Sources of intra-population variations in otoliths shape [Th1]	Université de Lille 1	IFREMER (50%) Région Nord Pas de Calais (50%)	ACL107 [!], ACL108 [!]	IFREMER, temporary contract
Xochitl CORMON	08/10/12	11/12/15 38 months	Impacts of a top-predator emergence in an exploited ecosystem: North Sea hake and saithe. Which interactions? What consequences? [Th2]	Université de Lille 1	France Filière Pêche (100%)	ACL025 [!], ACL027 [!]	Post-doc (University of Hamburg, Germany)
Raphaël	24/10/11	16/03/15	Ecosystem and fishers' behaviour modelling: two	Université de	IFREMER (50%)	ACL055,	IFREMER, permanent

GIRARDIN		41 months	interacting approaches to support Ecosystem Based Fisheries Management in the Eastern English Channel [Th3]	Lille 1	FP7 (50%)	ACL056	staff
Loïc Gasche <i>[co-direction]</i>	01/12/10	17/03/14 40 months	Elaboration of a robust diagnostic to implement MPAs in an uncertain and glocal change context [Th3]	Agrocampus Ouest	IFREMER (50%) Région Pays de Loire (50%)	ACL051 [!], ACL115 [!]	Bank officer
Marie CACHERA	11/10	18/12/13 38 months	Implications of morphological and functional traits for trophic relationships within fish communities and marine trophic network architecture [Th2]	Université de Lille 1	IFREMER (50%) Interreg (50%)	ACL018 [!], ACL076 [!]	SHOM
Elena SULIN	25/11/13	Aborted (25/06/14)	-	-	-	-	-

Undergraduate students

Name	Date début	Date fin	Degree	Etablissement	Sujet
Michèle PERNAK	01/09/2016	30/06/2018	M2 (Contrat en alternance)	U. Lille	Variability in space and time of fish larvae assemblages in the Eastern English Channel and the North Sea [Th1]
Alaia MORELL	08/01/2018	22/06/2018	M2	Agrocampus Ouest	Spatial structuration of Eastern English Channel life traits [Th1]
Felix GENDROT	08/01/2018	15/06/2018	M2	U. Sorbonne	Spatial and temporal variations of larval condition during the critical period of three fish species in the Eastern English Channel: histological indices approach [Th1]
Lea JOLY	08/01/2018	15/06/2018	M2	U. Sorbonne	TAG:Chol and PC:PE as proxy of plaice larval condition in the North Sea and English Channel [Th1]

Julie CASTIGLIONE	12/02/2018	10/08/2018	M2	U. Reims-Champagne	Ecology of benthic communities in relation to the trends in the local shrimp fishery [Th3]
Virginie FONTAINE	03/04/18	01/06/18	M1	U Lille 1	Quantification of isotopic uncertainty in the dynamic modelling of trophic networks [Th2]
Charles-André TIMMERMAN	01/09/15	30/06/17	M2 (Contrat en alternance)	U Lille 1	Multi-indicator approach to trophic network investigations in the Eenglish Channel [Th2]
Matthieu GENU	06/02/17	04/08/17	M2	Agrocampus Ouest	Relative importance of different mechanisms underlying fish response to climate change [Th2]
Hubert DE PONTAVICE	08/02/16	07/08/16	M2	Agrocampus Ouest	Influence of fishing stratégies on Eastern English Channel sole selectivity [Th3]
Julliette SOUNY	05/01/16	30/06/16	M2	UPMC	Effects of a protected area on Flamanville Cape crustaceans community [Th3]
Gwendal LE GOFF	04/04/16	03/06/16	M1	U. Lille 1	Robustness of the relations between otolith and fish morphometric parameters [Th1]
Romain VETIL	04/04/16	03/06/16	M1	ULCO	Time changes in the recruitment and life history traits of red mullet (<i>Mullus surmulletus</i>) in relation to climate [Th1]
Elodie DUBREIL	04/04/16	27/05/16	M1	U. Caen	Macroscopic and microscopic description of female sole gonads [Th1]
Marion DEBASLY	04/01/16	26/02/16	M1	UBO	Stock assessment of two major fish species harvested in the North Sea [Th3]
Jackez LOTTIN	14/09/15	30/10/15	BTS	Lycée Maritime de Sète	Preparation of the CGFS sea survey [Th3]
Maud MACE	18/02/15	18/08/15	M2	Agrocampus Ouest	Dynamics of fish communities in the Baie de Somme [Th2]

Valentin BRISAC	25/05/15	20/06/15	L1	UBO	Relation between fish and otolith shapes in the English Channel [Th1]
Amandine JULIEN	13/04/15	05/06/15	M1	U. Caen	Updating pollack biological parameters in support of data-limited stock assessments [Th3]
Pierre LAILLE	30/03/15	23/05/15	M1	ULCO	Relation between ontogenic growth of otoliths and fish in the English Channel [Th1]
Mathias LUNGHI	27/01/14	27/06/14	M2	UPMC	Spatial and temporal analysis of sole larvae transport in the Bay of Biscay [Th1]
Martin TOURNIER	27/01/14	27/06/14	M2	UPMC	Dynamics in space and time of wintering macrozooplankton in the English Channel and the North Sea [Th1]
Thomas DELOFFRE	27/01/14	20/06/14	M2	U. Lille 1	Contribution of phytoplankton to the diet of Downs herring [Th1]
Audrey DELANNOY	31/03/14	28/05/14	M1	U. Lille 1	Deconvolution of the mortality of cod and red mullet subject to different exploitation levels in the Eastern English Channel, using a multispecific model [Th3]
Marion CLAIREAUX	06/01/14	28/02/14	M1	UBO	Time changes in the growth and maturity of Eastern English Channel sole [Th1]
Erwan DUHEM	01/04/13	29/09/13	M2	U. Caen	Relation between environmental conditions and the recruitment of scallops in the Bay of Seine [Th1]
Jérémy DENIS	07/01/13	28/06/13	M2	ULCO	Spatio-temporal dynamic in the diet of Downs herring larvae in the eastern English Channel and North Sea [Th1]

4- Students' follow up in association with doctoral schools

Of the 9 PhD students who graduated over the period 2013-2018 (Section III.3), 8 found a job in the year following their viva, and 1 is still unemployed. HMMN supervisors have been active in providing assistance to their PhD students before and after the end of their contracts. This could take different forms: forwarding postdoctoral and/or permanent job offers, providing reference letters, offering guidance in drafting CVs and/or cover letters. Importantly also, PhD students have been strongly encouraged to have a postdoctoral experience abroad, and in any case in a different research unit, so to gain a diversified research experience. Of the 9 PhD graduated students, 4 of them spent 3-12 months in a reputable foreign lab (CSIRO, Australia; Thünen Institute, Germany; University of Wageningen, The Netherlands; University of Seattle, USA). Another common practice has been to invite to the viva foreign external examiners that were both specialists in research fields investigated by the students, and potential postdoctoral providers or employers. Overall, 3 PhD students found a post-doctoral position in a foreign laboratory after their viva (University of Hamburg, Germany; NOAA Seattle, USA; University of Cape Town, South Africa).

5- Participation to international training programs (e. g. Erasmus Mondus)

HMMN has taken part in the training of 11 foreign students from Africa, South America, Canada (who came along with their national grants), Turkey (taking advantage of the Erasmus Programme), and The Netherlands (with funding from IFREMER – Scientific Direction grant). More details are shown in the Table below.

Name	Date début	Date fin	Degree prepared	Etablissement	Sujet
Gnoumou Siefou PARFAIT	03/04/18	15/06/18	PhD Thesis	U. Ouagadougou (Burkina Faso)	Growth and reproduction of <i>Claria anguillaris</i> and <i>Oreochromis niloticus</i> in the lakes of Burkina Faso [Th1]
Gizem AKKUS	01/09/17	30/09/17	PhD Thesis (Erasmus Grant)	Middle-East Technical University (Turkey)	Exploration and of small pelagics' otolith structures across areas [Th1]
Ali BECHEKER	13/03/17	15/04/17	PhD Thesis	U. Badji Mokhtar-Annaba (Algeria)	Growth performances de of mugilidae juveniles off East Algeria [Th1]
Asma KHALDI	02/05/17	30/06/17	PhD Thesis	U. Tunis El Manar (Tunisia)	Growth of sparidae in the Gulf of Tunis [Th1]
Patricia GONCALVES	20/06/16	12/07/16	PhD Thesis	IPMA (Portugal)	Blue whiting otoliths shape analysis [Th1]
Gabriela PRESTES-CARNEIRO	04/07/16	11/07/16	PhD Thesis	U. Santarem (Brazil)	Reconstructing fishing seasonality in an Amazonian pre-Columbian site through <i>Synbranchus marmoratus</i> sclerochronology [Th1]
Emilie LAVOIE	01/05/15	30/06/15	PhD Thesis	U Québec (Canada)	Growth and Otoliths shape of <i>Salvelinus Fontinalis</i> in Mauricie lakes [Th1]
Oussama	15/05/15	20/06/15	PhD Thesis	U Tunis (Tunisia)	Age, growth and mortality of the starry weever

HAMED					<i>Trachinus radiatus</i> [Th1]
Samira BOUFERSAOUI	05/05/14	28/05/14	PhD Thesis	U USTHB-FSB (Algeria)	Age and growth of the striped seabream in the central coast of Algeria [Th1]
Jurgen BATSLEER	13/05/13	02/08/13	PhD Thesis (International visiting scientist grant)	U. Wageningen (Netherlands)	Modelling the dynamics and ecosystem impacts of mixed demersal fisheries [Th3]
Sultana BOUHADIBA	29/04/13	03/05/13	PhD Thesis	U Es senia-Oran (Algeria)	Growth of red mullet in the Algerian coast [Th1]

6- PhD student participation to scientific animation and unit/team life

PhD students are invited to different internal HMMN meetings, e.g., weekly/monthly flash laboratory and quarterly HMMN video-linked meetings (See auto-evaluation report, Section 1.4 for a description of these meetings). They are also required to present their work, whether it is finalized or in progress, during the annual HMMN scientific days, and also in the occasion of the annual (CMMN) students seminars. Finally, a rehearsal is systematically organized 1-2 weeks prior to the viva in plenary, with all HMMN staff convened either physically or via a videolink, so PhD students get a chance for a ultimate feedback to improve their talk.

Over the period 2013-2018, HMMN PhD students have also been particularly active in the organization of special events, like the Pint of Science festival where several senior searchers (from HMMN and other regional research institutes) presented their work to a non-specialized audience (see Section II.5).

7- Participation of team members in setting up Master courses

NA

8- Student publications (for Biology only)

As could be seen in Section III.3, 22 out of the 139 WoS-referenced publications (16%) were thus co-authored by a PhD student supervised by HMMN scientists. The PhD student was first author in 19 of these publications (14%). The IF median (2.29) is within HMMN range (2.33), while two publications associating or first-authored by an HMMN PhD student had an IF greater than 5.