

## LIST OF EXPERTS PROPOSED BY CIESM, IUCN, CMS AND IWC FOR THE SCIENTIFIC COMMITTEE



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### Note of the Secretariat:

During MOP8, Parties adopted Resolution 8.3 where the annexed Rules of procedure of the Scientific Committee according specify that the Scientific Committee shall consist of the following members:

- Three experts proposed by CIESM;
- Three experts proposed by IUCN;
- Up to three representatives for each Region defined in the Appendix, appointed by the Meeting of the Parties;
- One representative from the Scientific Committee of the International Whaling Commission (IWC) and one representative from the Scientific Council of the Convention on the Conservation of Migratory Species of Wild Animals (CMS).

In order to facilitate the process, the ACCOBAMS Secretariat invited CIESM, IUCN-Med, CMS and IWC to propose qualified experts to become members of ACCOBAMS Scientific Committee for 2026-2028.

Their respective *Curricula vitae* annexed hereafter were presented to the Sixth Meeting of the Extended Bureau (23-24 April 2025, Nice, France). Bureau members recommended approving the nominations of the experts proposed by CIESM, IUCN, CMS and IWC, for the Scientific Committee for the 2026–2028 period.

#### Experts proposed by CIESM

- [Loriane MENDEZ](#)
- [Ayaka AMAHA OZTÜRK](#)
- [Simone PANIGADA](#)

#### Experts proposed by IUCN

- [Rimmel BEN MESSAOUD](#)
- [Léa DAVID](#)
- [Maria Cristina FOSSI](#)

#### Expert proposed by CMS:

- [Mark Peter SIMMONDS](#)

#### Expert proposed by IWC:

- [Greg DONOVAN](#)

Parties will be invited to welcome experts proposed by CIESM, IUCN, CMS and IWC as members of the Scientific Committee for the 2026-2028 period.



**Curriculum vitae - Loriane MENDEZ****Loriane MENDEZ****Short biography**

Loriane Mendez specializes in the study of top predators, including cetaceans, seabirds, and sharks, and is currently leading the sector at the Mediterranean Science Commission (CIESM) as Head of CIESM's Biodiversity Programs. After a first degree in Biology of Organisms (Univ. of Nice, France, 2011) and a Master's degree in Oceanography - Marine Biology and Ecology (Univ. of Marseille, France, 2013), her doctoral thesis (CEBC-CNRS, France, 2017) focused on the causes and consequences of environmental fluctuations on top predators in the current context of global change. In the process, she gained a wide range of skills (in particular bio-logging analyses, population genetics, GLMM statistical models) applied to different populations (dolphins, whales, penguins, sharks, tropical and mediterranean seabirds). Field missions to distinct regions of the world took her from monitoring cetaceans in various part of the Atlantic and Mediterranean, to tracking breeding seabirds in the South Pacific. She authored several relevant papers in international scientific journals. She is particularly well-versed in the workings and activities of ACCOBAMS, having participated in its Science Committee during the 2020-2022 and 2023-2025 triennials.

**Representative publications:**

1. Giovos I., **Mendez L.**, *et al.* (2019) An International Online Social Survey of Public Attitudes Towards Cetaceans. *Aquatic Mammals* 45:327-339
2. **Mendez et al.** (2017) Ontogeny of foraging flights in juvenile red-footed boobies. *Scientific Reports* 7: 13886
3. **Mendez** (2013) Analyse génétique des baleines à bosse (*Megaptera novaeangliae*) de Madagascar. Laboratoire BioGeMME (Biologie et Génétique des Mammifères Marins dans leur Environnement). Rapport de stage de M2.

***Curriculum vitae - Ayaka AMAHA OZTURK***

Ayaka Amaha Ozturk, Ph.D.

Affiliation: Faculty of Aquatic Sciences, Istanbul University / Turkish Marine Research Foundation (TUDAV)

After receiving her Ph.D. from Tokyo University of Fisheries on the taxonomical study of common dolphins, Ayaka has been conducting researches on cetaceans and working on their conservation in Turkey for more than 25 years. Since 1996, she has been working at the Faculty of Aquatic Sciences as a lecturer. She is one of the founders of TDUAV and has been working as an advisor on biodiversity and international projects. She was a member of Council for the European Cetacean Society in 2010-2012. She has been working in the Scientific Committee of ACCOBAMS since 2011, representing CIESM, and serving as a vice chair of the Committee twice.

**Curriculum vitae - Simone PANIGADA**

## CURRICULUM VITAE

**Simone Panigada**

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 Ph.: +39 339 8833470  
 E-mail: [panigada69@gmail.com](mailto:panigada69@gmail.com)  
 Orcid id: 0000-0003-0856-1227  
 Born: Lecco (Italy), 28 April 1969  
 Italian citizen  
 Married

*Education*

- Ph.D. in Environmental Biology. University of Siena, Italy (18-03-2002). Thesis title: "Ecology of the fin whale (*Balaenoptera physalus*) in the Ligurian Sea: seasonal presence, distribution and habitat choice".
- Degree in Biological Sciences. University of Milan, Italy (21-02-1997). Thesis title: "Distribution, relative abundance and behavioral patterns of *Stenella coeruleoalba* (Meyen, 1833) in the Western Ligurian Sea, revealed with visual and acoustic survey".

*National Academic Qualification as Associate Professor for Ecology and Zoology.*

*Current positions and responsibilities***President, Tethys Research Institute ([www.tethys.org](http://www.tethys.org))**

The Tethys Research Institute, founded in 1986, is a non-profit NGO dedicated to the preservation of the marine environment. It focuses on marine animals and particularly on cetaceans inhabiting the Mediterranean Sea, and aims at protecting its biodiversity by promoting the adoption of a precautionary approach for the management of natural resources. Public awareness and conservation activities, coupled with education and capacity building, find their strength in the Tethys' internationally recognized scientific background. The activities conducted by Tethys - inspired by compelling scientific evidence - seek to prevent the decline of marine species and to encourage a sustainable use of the marine environment, particularly where habitat degradation makes it necessary.

**Chair of the Scientific Committee of ACCOBAMS ([www.accobams.org](http://www.accobams.org))**

ACCOBAMS, the Agreement on the Conservation of Cetaceans in the Black Sea, Mediterranean Sea and contiguous Atlantic area is a cooperative tool for the conservation of marine biodiversity in the Mediterranean and Black Seas. ACCOBAMS aims to reduce threats to cetaceans in Mediterranean and Black Sea waters and improve our knowledge of these animals, and is the first Agreement binding the countries in the two subregions, enabling them to work together on a matter of general interest. ACCOBAMS was concluded in the auspices of Convention on Migratory Species in 1996 and entered into force in 2001. The Scientific Committee of ACCOBAMS, comprised of persons qualified as experts in cetacean conservation science, is an advisory body to the Meeting of the Parties. The Committee meets approximately once every year. The meetings of the Committee provide an opportunity for the gathering of an increasingly large number of cetacean conservation experts from the Agreement area.

**Member of the Marine Mammal Protected Areas Task Force MMPATF**

(<https://www.marinemammalhabitat.org/>)

The MMPATF is currently pioneering the development of the concept of Important Marine Mammal Areas (IMMAs); defined as discrete portions of habitat, important to marine mammal

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species, that have the potential to be delineated and managed for conservation. IMMAs consist of areas that may merit place-based protection and/or monitoring. During 2016-2021 the task force is rolling out a tool to apply criteria to identify and potentially protect Important Marine Mammal Areas in six marine regions, through the organisation of regional expert workshops. The First Mediterranean Region Important Marine Mammal Areas IMMA Workshop, held in Chania, Crete (Greece), 24-28 October 2016, was organized by Tethys in cooperation with ACCOBAMS.

**Member of the Italian Delegation at the Scientific Committee of the International Whaling Commission** ([www.iwcoffice.org](http://www.iwcoffice.org))

The Scientific Committee comprises up to 200 of the world's leading whale biologists. The Committee meets in the two weeks immediately before the main Commission meeting and it may also hold special meetings during the year to consider particular subjects. The Scientific Committee's report provides an annual review of the major issues affecting cetacean conservation. The subject matter considered by the Committee is largely determined by the scientific needs of the Commission.

**Member of the IUCN Cetacean Specialist Group** (<http://www.iucn-csg.org>)

The Cetacean Specialist Group promotes and facilitates the conservation of cetaceans worldwide. It functions as a catalyst, clearing house, and facilitator for cetacean-related research and conservation action.

*Previous positions and responsibilities*

**Scientific Coordinator of the ACCOBAMS Survey Initiative (ASI)**

The ACCOBAMS Survey Initiative (ASI) is a regional effort promoted and coordinated by ACCOBAMS aimed at establishing an integrated and coordinated monitoring system for cetaceans in the Mediterranean and Black Seas. The ASI project will support the countries to meet their national and international commitments, in particular as regards to the regional policies related to the monitoring of the marine environment (EU MSFD, Ecosystem Approach implemented by the Regional Sea Conventions, fisheries policies, etc.). In addition, the ASI project will contribute to provide a thorough estimate of the density, abundance and distribution of the cetacean populations in the ACCOBAMS area, based on robust data that will be collected during a synoptic survey planned for summer 2018 in the Mediterranean Sea and for summer 2019 in the Black Sea.

**Member of the Scientific and Technical Committee of the Pelagos Sanctuary**

The Pelagos Sanctuary is a wide Marine Protected Area (MPA) established in 2002 by a joint declaration between the Governments of France, Italy and Monaco. The Sanctuary was inscribed in the SPAMI list within the framework of the Barcelona Convention, after the ratification process of the three signatory States. This MPA lies between south-eastern France, Monaco, northern Sardinia and north-western Italy, covering an area of almost 90,000 km<sup>2</sup>. The area included in the Sanctuary comprises national waters of Italy, France and Monaco and adjacent international waters.

**Member of the Scientific Council of the CIESM and co-chair of the C5. Living Resources & Marine Ecosystems** (<http://ciesm.org/people/chairs/index.htm>)

The chairs of the six CIESM scientific committees work closely with the Director General and with each other on strategic planning, on consolidating the scientific cooperation between marine researchers on both shores, in developing an active network, in strengthening interdisciplinarity, and in leading CIESM research Workshops. Main themes covered are: biodiversity changes; exotic species; fauna and flora of the water column and sea bottom; life histories adaptations; food webs; dynamics of species of commercial interest; aquaculture.

**Ship strike data coordinator with the International Whaling commission**

Principal aims of this effort are to develop a better understanding of the issue and to develop effective mitigation measures, involving better communication with stakeholders (e.g. shipping

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companies, scientists, maritime institutions) and increased reporting of events via the global ship strikes database.

### ***Recent projects funded and directed as Project Manager and Principal Investigator***

- 2022-2026: Project Coordinator for a Life Project on mitigating ship strikes in the Mediterranean Sea and the North Sea, LIFE SEADETECT, coordinated by Naval Group, where Tethys plays the role an Associated Partner.
- 2022-2024 – Project to identify Important Marine mammal Areas (IMMAs) in the North Atlantic Ocean, through the organisation of regional expert workshops, where Tethys plays a role of Project Coordinator. With the Water Revolution Foundation.
- 2020-2022 – Principal Investigator for a project on 'Enhancing place-based conservation efforts for fin whales in the Balearic Sea and Catalan Coastal waters, using satellite transmitters to assess habitat use and movements'. With EdMaktub and SPA-RAC.
- 2019-2020 - Co-principal investigator for a project on 'Comprehensive assessment of a fin whale high density area along the West Antarctic Peninsula', with Hamburg University.
- 2018-2021 – Principal Investigator of a project funded by the Pelagos Agreement on mitigating ship strikes in the Pelagos Sanctuary. Proposal to develop and evaluate mitigation strategies to reduce the risk of ship strikes to fin and sperm whales in the Pelagos Sanctuary, where Tethys played the role of Project Coordinator.
- 2018- 2024 – Cetacean expert in a project in Bulgaria - Survey and mapping of the distribution of natural habitats, species, and assessment of their conservation status in maritime spaces of the Republic of Bulgaria. With Nature Bureau (on behalf of the Ministry of Environment and Waters, Bulgaria).
- 2016-2023 – GOBI-IKI project to identify Important Marine mammal Areas (IMMAs) in the Southern Hemisphere, through the organisation of regional expert workshops, where Tethys play a role of Work Package Coordinator.
- 2015-2018 - Conservation Coordinator for a LIFE Project on monk seal conservation in Greece (Cyclades LIFE 12/NAT/GR/00688), where Tethys played the role an Associated Beneficiary.
- 2015-2016 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment on "Aerial survey for cetacean abundance estimates in the Strait of Sicily and Tunisian Plateau". With the International Whaling Commission.
- 2014-2016 - Co-principal investigator for a satellite tagging project in the Ross Sea, Antarctica, on the "trophic role of killer whales in the Antarctic ecosystem", with the National Program of Antarctic Research (PNRA).
- 2014 – Project Manager for a project to provide MMO (Marine Mammal Observers) and PAM operators (Passive Acoustic Monitoring) onboard a cable-lying ship between Malta and Italy.
- 2013-2016 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment on "Satellite telemetry applied to fin whales in the Strait of Sicily". With the International Whaling Commission.
- 2013 – 2014 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment on "Aerial survey for cetacean abundance estimates in the Central and Southern Tyrrhenian Seas". With the International Whaling Commission.
- 2013 – Project leader for the aerial component of the project 'Adverse Fisheries Impacts on Cetacean Populations in the Black Sea', funded by Directorate-General for Maritime Affairs and Fisheries of the European Commission to MacAlister Elliott and Partners Ltd.
- 2012 - Project Manager and Principal Investigator of a project funded by the Italian Ministry of the Environment on "Satellite telemetry applied to fin whales in the Mediterranean Sea".
- 2011-2012 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment on "Satellite telemetry applied to fin whales in the Mediterranean Sea".
- 2010-2011 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment to "Assess the presence, distribution and abundance of cetaceans in the Italian Seas through aerial surveys".

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- 2010-2011 - Project Manager and Co-principal Investigator of a project funded by "Stretto di Messina S.p.A." on spatial modelling of cetacean in the waters of the Strait of Messina, to assess the potential risk associated to the construction of a suspended bridge over the Strait.
- 2009 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment on "Ship strikes in the Mediterranean Sea: assessment and identification of conservation and mitigation measures".
- 2007-2009 - Project Manager and Principal Investigator for a project funded by the Italian Ministry of the Environment to "Assess the presence of critical habitats for cetaceans within the Pelagos Sanctuary, coupled with an aerial survey for absolute abundance of striped dolphin and fin whales during the winter months".
- 2005-2006 - Project Manager and Co-principal Investigator of a project funded by "Stretto di Messina S.p.A." on spatial modelling of cetacean in the waters of the Strait of Messina, to assess the potential risk associated to the construction of a suspended bridge over the Strait. With the Tethys Research Institute.

### **Ongoing/major professional experience**

- 1993/present - Ecology and conservation of the fin whale (*Balaenoptera physalus*) in the Ligurian Sea. With the Tethys Research Institute.
- 2002/present - Habitat use and preferences of cetaceans living in the Western Ligurian Sea, using geospatial modeling. Principal Investigator. With the Sea Mammal Research Unit and the Tethys Research Institute.
- 2002-2006 - Member of the Board of Directors, European Cetacean Society.
- 2003-2005 - Marie Curie Post Doctoral Fellow (Individual Fellowship CAT. 30, QLK5-CT-2002-51634), Sea Mammal Research Unit, University of St. Andrews, Scotland ([www.smr.u.st-and.ac.uk](http://www.smr.u.st-and.ac.uk)). Title of the project: "Habitat choice and preferences of cetaceans in the western Ligurian Sea: insight through telemetry and satellite imagery".
- 2005/present - National contact point in regard to ship strikes of cetaceans, within the Ship Strikes Working Group (SSWG) established under the Conservation Committee of the International Whaling Commission.
- 2007-2011 - Chair, European Cetacean Society ([www.europeancetaceansociety.eu](http://www.europeancetaceansociety.eu)). The European Cetacean Society is the largest European association of cetacean scientists. It has about 500 professional members from over 30 countries and organizes annual meetings.
- Contract Professor at the University of Milan. Course taught: Marine Biology and Ecology (academic years: 2016-2017, 2017-2018, 2018-2019, 2019-2020).

### **Research interests**

- Natural history, ecology, habitat use, spatial modeling, telemetry, remote sensing, absolute abundance, acoustics, critical habitats. Interactions between marine mammals and man: ship strikes, entanglements, by-catch, habitat degradation, conservation of vulnerable species.
- Systematic monitoring of cetacean populations.
- Public awareness and popularization of issues relating to the conservation of the marine environment, particularly in the Mediterranean Sea.

### **Language skills: (rating 5= highest to 1=lowest for competence)**

Language	Reading	Speaking	Writing
Italian (mother tongue)	5	5	5
English	5	5	5
French	4	3-4	1

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Spanish

4

2-3

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**Miscellaneous**

- Italian captain license for sailing and motor boats.
- CMAS International diving certificate, 2<sup>nd</sup> level.
- Naturalistic photography.
- Good knowledge of PC and Macintosh applications.
- Good knowledge of Geographic Information Systems (GIS) applications (ArcView GIS 3.2 Software).
- Basic knowledge of R and Matlab software.
- Thesis advisor and external examiner for several students in Italian and foreign Universities.

**Professional affiliations**

- European Cetacean Society (Member)
- Society for Marine Mammalogy (Member)
- IUCN Cetacean Specialist Group (Member)

**Peer-reviewed publications**

1. Marsili, L., Fossi, M.C., Notarbartolo-di-Sciara, G., Zanardelli, M., Nani, B., **Panigada, S.** and Focardi, S. 1998. Relationship between organochlorine contaminants and mixed oxidase activity in skin biopsy specimens of Mediterranean fin whales (*Balaenoptera physalus*). *Chemosphere* 37 (8):1501-1510.
2. **Panigada, S.**, Zanardelli, M., Canese, S. and Jahoda, M. 1999. How deep can baleen whales dive? *Marine Ecology Progress Series* 187:309-311.
3. Gordon, J.C.D., Matthews, J.N., **Panigada, S.**, Gannier, A., Borsani, J.F., and Notarbartolo-di-Sciara, G. 2000. Distribution and relative abundance of striped dolphins, and distribution of sperm whales in the Ligurian Sea cetacean sanctuary: results from a collaboration using acoustic monitoring techniques. *Journal of Cetacean Research and Management*, 2(1):27-36.
4. Fossi, M.C., Marsili, L., Neri, G., Casini, S., Bearzi, G., Politi, E., Zanardelli, M., **Panigada, S.** 2000. Skin biopsy of Mediterranean cetaceans for the investigation of interspecies susceptibility to xenobiotic contaminants. *Marine Environmental Research*, 50:517-521.
5. Marsili, L., Fossi, M.C., Neri, G., Casini, S., Gardi, C., Palmeri, S., Tarquini, E., **Panigada, S.** 2000. Skin biopsy of for cell cultures from Mediterranean free-ranging cetaceans. *Marine Environmental Research*, 50:523-526.
6. Jahoda, M., Lafortuna, C.L., Biassoni, N., Almirante, C., Azzellino, A., **Panigada, S.**, Zanardelli, M. & Notarbartolo di Sciara, G. 2003. Mediterranean fin whale's (*Balaenoptera physalus*) response to small vessels and biopsy sampling assessed through passive tracking and timing of respiration. *Marine Mammal Science*, 19(1):96-110.
7. Notarbartolo di Sciara, G., Zanardelli, M., Jahoda, M., **Panigada, S.**, Airoidi, S. 2003. The Fin whale *Balaenoptera physalus* (L. 1758), in the Mediterranean Sea. *Mammal Review*. 33(2):105-150.
8. Fossi, M.C., Marsili, L., Neri, G., Natoli, A., Politi, E., and **Panigada, S.** 2003. The use of a non-lethal tool for evaluating toxicological hazard of organochlorine contaminants in Mediterranean cetaceans: new data 10 years after the first paper published in MPB. *Marine Pollution Bulletin*, 46(8):972-982.
9. **Panigada, S.**, Notarbartolo di Sciara, G., Zanardelli Panigada, M., Airoidi, S., Borsani J.F. and Jahoda, M. 2005. Fin whales summering in the Ligurian Sea: distribution, encounter rate, mean group size and relation to physiographic variables. *Journal of Cetacean Research and Management*, 7(2):137-145.
10. **Panigada, S.**, Notarbartolo di Sciara, G., Zanardelli Panigada, M. 2006. Fin whales summering in the Pelagos Sanctuary (Mediterranean Sea): overview of studies on habitat



- use and diving behaviour. *Chemistry and Ecology*, 22 (supplement 1):255-263.
11. **Panigada**, S., Pesante, G., Zanardelli, M., Capoulade, F., Gannier, A., Weinrich, M.T. 2006. Mediterranean fin whales at risk from fatal ship strikes. *Marine Pollution Bulletin*, 52:1287-1298.
  12. Notarbartolo di Sciara, G., **Panigada**, S. 2006. Fin whale *Balaenoptera physalus* (Mediterranean subpopulation). Pp. 11-15 in Reeves R., Notarbartolo di Sciara G. (compilers and editors). The status and distribution of cetaceans in the Black Sea and Mediterranean Sea. IUCN Centre for Mediterranean Cooperation, Malaga, Spain.
  13. **Panigada**, S., Zanardelli, M., MacKenzie, M., Donovan, C., Mélin, F., Hammond, P.S. 2008. Modelling habitat preferences for fin whales and striped dolphins in the Pelagos Sanctuary (Western Mediterranean Sea) with physiographic and remote sensing variables. *Remote Sensing of the Environment*, 112:3400-3412.
  14. Evans, P.G.H., **Panigada**, S., Pierce, G.J. 2008. Integrating science and management for marine mammal conservation. *Journal of the Marine Biological Association of the United Kingdom*, 88(6):1081-1083.
  15. **Panigada**, S., Pavan, G., Borg, J.A., Galil, B.S., Vallini, C. 2008. Biodiversity impacts of ship movement, noise, grounding and anchoring. In: A. Abdulla and O. Linden (editors). Maritime traffic effects on biodiversity in the Mediterranean Sea: Review of impacts, priority areas and mitigation measures. Malaga, Spain: IUCN Centre for Mediterranean Cooperation. 184 pp.
  16. Fossi, M.C., Urban, J., Casini, S., Maltese, S., Spinsanti, G., Panti, C., Porcelloni, S., **Panigada**, S., Lauriano, G., Niño-Torres, C., Rojas-Bracho, L., Jimenez, B., Muñoz-Arnanz, J., Marsili, L. 2010. A multi-trial diagnostic tool in fin whale (*Balaenoptera physalus*) skin biopsies of the Pelagos Sanctuary (Mediterranean Sea) and the Gulf of California (Mexico). *Marine Environmental Research*, doi: 10.1016/j.marenvres.2009.10.006.
  17. Evans, P.G.H., Pierce, G.J., **Panigada**, S. 2010. Climate change and marine mammals. *Journal of the Marine Biological Association of the United Kingdom*, 90(8):1483-1487.
  18. Lauriano, G., **Panigada**, S. 2010. Aerial survey in the Pelagos Sanctuary for the Management and Conservation of the protected species. *Biologia Marina Mediterranea*, 17(1):43-46.
  19. Lauriano, G., **Panigada**, S. 2010. Line-transect distance sampling through aerial surveys for density and abundances estimates. *Biologia Marina Mediterranea*, 17(1):404-405.
  20. Lauriano, G., **Panigada**, S., Canneri, R., Manca Zeichen, M., Notarbartolo di Sciara, G. 2011. Abundance estimate of striped dolphins (*Stenella coeruleoalba*) in the Pelagos Sanctuary (NW Mediterranean) by means of line transect survey. *Journal of Cetacean Research and Management*, 11(3):279-283.
  21. Arrigoni, M., Manfredi, P., **Panigada**, S., Bramanti, L., Santangelo, G. 2011. Life-tables of the Mediterranean fin whale set out from stranding data. *Marine Ecology: an evolutionary perspective*, 32(1):1-9.
  22. **Panigada**, S., Lauriano, G., Burt, L., Pierantonio, N., Donovan, G. 2011. Monitoring winter and summer abundance of cetaceans in the Pelagos Sanctuary (Northwestern Mediterranean Sea) through aerial surveys. *PLoS ONE* 6(7): e22878. doi:10.1371/journal.pone.0022878.
  23. Lauriano, G., **Panigada**, S., Casale, P., Pierantonio, N., Donovan, G. 2011. Abundance estimates of the loggerhead sea turtle (*Caretta caretta*) in the Pelagos Sanctuary, North Western Mediterranean Sea. *Marine Ecology Progress Series*, 437:291-302.
  24. **Panigada**, S., Zanardelli, M., Notarbartolo di Sciara, G. 2012. Cetaceans of the Mediterranean Sea. In: *Life in the Mediterranean Sea: A Look at Habitat Changes*. Nova Science Publishers, Inc. N.Y.
  25. Azzellino, A., **Panigada**, S., Lanfredi, C., Zanardelli, M., Airoidi, S., Notarbartolo di Sciara, G. 2012. Predictive habitat models for managing marine areas: Spatial and temporal distribution of marine mammals within the Pelagos Sanctuary (Northwestern Mediterranean sea). *Ocean & Coastal Management*, 67:63-74.
  26. **Panigada**, S., Notarbartolo di Sciara, G. 2012. Fin whale *Balaenoptera physalus* (Mediterranean subpopulation). IUCN (2012). *Marine Mammals and Sea Turtles of the Mediterranean and Black Seas*. Gland, Switzerland and Malaga, Spain: IUCN. 32 pages.
  27. Druon, J.N., **Panigada**, S., David, L., Gannier, A., Mayol, P., Arcangeli, A., Cañadas, A., Di

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- Méglio, N., Gauffier, P. 2012. Potential feeding habitat of fin whale in the Western Mediterranean Sea. *Marine Ecology Progress Series*, 464:289–306. <http://dx.doi.org/10.3354/meps09810>
28. Archer, F.I., Morin, P.A., Hancock-Hanser, B.L., Robertson, K.M., Leslie, M.S., Bérubé, M., **Panigada**, S., Taylor, B.L. 2013. Mitogenomic phylogenetics of fin whales (*Balaenoptera physalus* spp.): genetic evidence for revision of subspecies. *PLoS ONE* 8(5): e63396. doi:10.1371/journal.pone.0063396.
  29. Boero, F., Carlton, J., Briand, F., Kiessling, W., Chenuil, A., Voultsiadou, E., Twichett, R., Soldo, A., **Panigada** S., Juan-Jorda, M.J., Melian, C.J., Cury, P. and P. Moschella. 2013. Executive Summary pp. 5-19 in CIESM Workshop Monographs n° 45 [F. Briand, ed.] *Marine Extinctions - patterns and processes*, 188 p., CIESM Publisher, Monaco.
  30. **Panigada** S., Pierantonio N. 2013. Marine mammals and risk of extinction: an overview at local, regional and global scales, pp 81-90 in CIESM Workshop Monographs n° 45 [F. Briand, ed.] *Marine Extinctions - patterns and processes*, 188 p., CIESM Publisher, Monaco.
  31. Notarbartolo di Sciarra, G., **Panigada**, S., Agardy, T. 2013. Is the Pelagos Sanctuary sufficiently large for the cetacean populations it is intended to protect? *Rapp. Comm. int. Mer Médit.*, 40:623.
  32. Lauriano, G., Pierantonio, N., Donovan, G., **Panigada**, S. 2014. Abundance and distribution of *Tursiops truncatus* in the Western Mediterranean Sea: an assessment towards the Marine Strategy Framework Directive requirements. *Marine Environmental Research*, 100:86-93. doi: 10.1016/j.marenvres.2014.04.001.
  33. Azzellino, A., Fossi, M.C., Gaspari, S., Lanfredi, C., Lauriano, G., Marsili, L., **Panigada**, S., Podestà, M. 2014. An index based on the biodiversity of cetacean species to assess the Environmental Status of marine ecosystems. *Marine Environmental Research*, 100:94-111. doi: 10.1016/j.marenvres.2014.06.003.
  34. Rossi, A., **Panigada**, S., Arrigoni, M., Zanardelli, M., Cimmino, C., Marangi, L., Manfredi, P., Santangelo, G. 2014. Demography and conservation of the Mediterranean fin whale (*Balaenoptera physalus*): what clues can be obtained from photo-identification data. *Theoretical Biology Forum*, 107(1-2): 123-142.
  35. Notarbartolo di Sciarra, G., Lauriano, G., Pierantonio, N., Cañadas, A., Donovan, G., **Panigada**, S. 2015. The Devil We Don't Know: Investigating Habitat and Abundance of Endangered Giant Devil Rays in the North-Western Mediterranean Sea. *PLoS ONE* 10(11): e0141189. doi:10.1371/journal.pone.0141189.
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## References

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**PROFIL**

- Spécialiste en Cétologie ;
- Spécialiste en halieutique et vertébrés marins ;
- Excellentes connaissances des protocoles d'échantillonnage halieutiques, des métiers de la pêche, technologies et engins.

**POSITION ACTUELLE**

- Assistant de l'Enseignement Supérieur Agricole à l'Institut National Agronomique de Tunisie (INAT) ;
- Membre actif du laboratoire de recherche « Sciences Halieutiques » à l'Institut National des Sciences et Technologies de la Mer (INSTM) ;
- Membre du Réseau National d'Échouage (RNE) ;

**Qualifications principales**

- Enseignement de cours et de travaux pratiques/ dirigés portant sur la zoologie des invertébrés marins, adaptation des vertébrés marins (Reptiles, d'Oiseaux et de Mammifères Marins) au milieu marin, écologie marine, techniques et engins de pêche, les techniques de rédaction d'un texte scientifique ;
- Evaluation des stages d'été
- Encadrement d'étudiants de l'Institut National Agronomique de Tunisie (INAT) durant les écoles de terrain et des projets de fin d'études ;
- Bonne connaissance des espèces peuplant la mer méditerranée ;
- Vaste connaissance des techniques et engins de pêche ;
- Étude des interactions entre les espèces menacées en particulier les mammifères marins et les oiseaux marins et l'activité de la pêche et de l'aquaculture ;
- Maîtrise de la technique d'observations à terre, marine et aérienne ;
- Maîtrise des techniques de marquage des cétacés (Photo-identification, transect linéaire, Distance Sampling and Mark) ;
- Étude écologique, éthologique et d'affiliation sociale des delphinidés ;
- Formation des pêcheurs, des formateurs des écoles de pêche et des administrateurs sur la conservation et la protection des cétacés, les interférences entre cétacés et secteur de la pêche (déprédation et By-catch) et les technologies des pêches.
- Gestion des projets : Coordination de projet – Planification – Reporting : Rédaction des rapports d'avancement, rapports mi-parcours et rapports finaux des projets ;
- Sensibilisation et vulgarisation de la profession quant à la conservation de la mégafaune marine et précisément les cétacés.

## DIPLOMES

<b>2002</b>	<b>Baccalauréat Sciences expérimentales</b> Lycée secondaire d'Hammam-Sousse
<b>2006</b>	<b>Maîtrise en Biotechnologie Marine</b> Institut Supérieur de Biotechnologie de Monastir
<b>2008</b>	<b>Mastère en Production et Écosystèmes Aquatiques</b> Institut National Agronomique de Tunis
<b>2014</b>	<b>Doctorat en Sciences Halieutique</b> Institut National Agronomique de Tunis
<b>2014-2016</b>	<b>Post-Doctorat</b> Institut National des Sciences Technologies de la Mer- ECOSAFIMED
<b>25 Février 2017</b>	<b>Assistant d'enseignement Supérieur Agricole</b> Institut National Agronomique de Tunis
<b>29 Mai 2018</b>	<b>Helicopter Underwater Escaper</b>

## ENSEIGNEMENT

### Cours présentiels

- **Zoologie des invertébrés marins** 2018-2019 ; 2019-2020 ; 2020-2021 ; 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Techniques et engins de pêche** 2020-2021 ; 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Génie maritime** 2024-2025
- **Projet dirigé 2** 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Projet dirigé 5** 2020-2021 ; 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Projet dirigé 6** 2024-2025

### Travaux pratiques

- **Zoologie des invertébrés marins,** 2017-2018 ; 2018-2019 ; 2019-2020 ; 2020-2021 ; 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Ecologie du benthos** 2017-2018 ; 2018-2019 ; 2019-2020 ; 2020-2021 ; 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Techniques et engins de pêche** 2019-2020 ; 2020-2021 ; 2021-2022 ; 2022-2023 ; 2023-2024 ; 2024-2025
- **Génie maritime** 2024-2025
- **Océanologie** 2024-2025

### Travaux dirigés

- **Écologie du benthos** 2017-2018 ; 2018-2019 ; 2019-2020 ; 2020-2021 ; 2021-2022 ; 2022-2023
- **Projet dirigé 1** 2017-2018 ; 2018-2019 ; 2019-2020 ; 2020-2021 ; 2021-2022 ; 2022-2023

### Ecoles de Terrain

<b>École de Terrain Nord (2eme GHE)</b>	Impacts socio-économiques du crabe bleu <i>Portunus segnis</i> (Golfe de Gabès).	Mars 2017
	Impact de la sécheresse sur l'écosystème d'Ichkeul.	Avril 2018
	Pressions environnementales et halieutiques dans la région de Ghar el Meleh ; Pescatourisme comme	Avril 2019

▪ École de Terrain Sud (3 <sup>ème</sup> GHE)	alternative d'adaptations aux changements climatiques.	
	LE CAP-BON : Potentialités halieutiques, valeur écologique et alternatives pour le développement durable.	Mai 2022
	Les pêcheries de la région de Médenine : Complémentarités, Conflits et Impacts Environnementaux.	Novembre 2021
	La pêche côtière dans la région de Sfax : potentialités et défis (Archipels de Kerkennah et Keiss).	Décembre 2022
	Impact du changement climatique sur l'activité de pêche au Sud de la Tunisie	Novembre 2023
	Conservation marine et pêche durable dans le contexte du changement climatique à l'archipel de Kerkennah	Décembre 2024

#### Soutenances de Stages d'été

- Soutenance de stages d'été (2<sup>ème</sup> GHE) 2022-2023  
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## ENCADREMENT & EXAMINATION

### Encadrement

- **Chaima Aloulou (2025)** : État de lieux de l'industrie tunisienne halio-alimentaire face au défi de la réduction des émissions de GES. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). *En cours*
- **Lamisse Haded (2025)** : Évaluation rapide des espèces non indigènes de l'AMCP de Kuriat et de la marina de Monastir. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). *En cours*
- **Imen Trabelsi (2025)** : Mise en place d'un programme de surveillance écologique d'un site de plongée sous-marine à Cap Zebib. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). *En cours*
- **Senda Lazreg (2025)** : Inventaire des espèces exotiques envahissantes et leur expansion dans les habitats côtiers de Monastir. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). *En cours*
- **Ramla Bouhrel (2024)** : Expérimentation d'une nouvelle méthode de suivi ichtyque dans la Baie de Monastir (BRUV). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 89pp + annexes.
- **Amira Saoudi (2023)** : Evaluation de la qualité chimique des poissons et du sédiment de la retenue du barrage Lahjar (Salubrité du produit piscicole continental). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 91pp + annexes.
- **Mohamed Berriche (2023)** : La pêche côtière dans la région de la Chebba : Typologie des engins de pêche, cartographie des zones de pêche et aspect socio-économique. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 60pp + annexes.
- **Nada (2023)** : Contribution à l'évaluation des performances des récifs artificiels en tant que mesure de gestion. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 56pp + annexes.
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- **Kmar Attia (2020)** : Dynamique des efflorescences algales nuisibles dans le Golfe de Gabès (Cas de Sfax) de 2017 à 2019 par imagerie satellitaires. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 59pp+ annexes.
- **Amjed Kharedine (2020)** : Cartographie et rôle des banquettes de l'herbier de Posidonie dans les îles de Kuriat. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 68pp+ annexes.
- **Arwa CHAKROUN (2019)** : Mise en place d'un système de mouillage écologique aux îles Kuriat. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 83pp+annexes.
- **Maissa GHARBI (2019)** : Étude des interactions entre dauphins et engins de pêche dans la baie de Monastir. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 85pp+annexes.
- **Sabri DAASSI (2019)** : Télédétection satellitaire de la pollution marine par les hydrocarbures (Bizerte). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 91pp+ annexes.

- **Islam ILAHI (2019)** : Engins de pêche : typologie et ventilation des subventions d'état (port de la Goulette). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 67pp+annexes.
- **Salma BOUSSAIRI (2018)** : Inventaire de la faune et diagnostic de l'habitat au niveau d'un écosystème péri-lagunaire autour des îlots de la lagune de Bizerte. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 45pp+annexes.

#### Co-encadrement

- **Arwa Chakroun (2021)** : Evaluation de l'efficacité des répulsifs acoustiques comme mesure d'atténuation de la prédation entre dauphins et sennes tournantes coulissantes dans la région Nord-Est de la Tunisie. Mémoire de Mastère de l'Institut National d'Agronomie Tunis (INAT). 104pp+annexes.

#### Examination

- **Mouna Smirani (2022)** : Contribution à l'étude de l'exploitation d'*Hexaplex trunculus* (Linnaeus, 1758) (Nord de la Tunisie : Lagune de Bizerte). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 45pp+annexes.
- **Safa Arfaoui (2021)** : L'étude de l'interaction entre la pêche au chalut et la pêche côtière (Sud de la Tunisie : Djerba). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 59pp+annexes.
- **Zaineb Meki (2021)** : Contribution à l'étude des impacts des espèces invasives marines (Nord de la Tunisie : Lagune de Bizerte). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 69pp+annexes.
- **Ouday Hnoudi (2019)** : Suivi des macrodéchets solides au sud de la Tunisie-Région de Sfax. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 54pp.
- **Nawres Majed (2019)** : Contribution à l'évaluation du potentiel maritime dans le contexte de l'économie Bleue (Sud Tunisien : ports de Houmet Essouk et de Boughrara). Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 68pp+annexes.
- **Khouloud ATHIMEN (2018)** : An attempt to identify Potential Fishing Zones (PFZ) in Tunisia. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 34pp.
- **Rayen ABDELHADI (2018)** : Contribution à l'étude des impacts économiques de la pêche fantôme dans le Golfe de Tunis. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). + annexes.
- **Rana AFI (2018)** : Etude de la pollution marine par le macro-plastique. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 68pp.
- **Oussama FARSI (2018)** : Etude piscicole de trois retenues de barrage Brabara, Bni M'tir et Nabhana. Projet de Fin d'étude de l'Institut National d'Agronomie Tunis (INAT). 73pp+annexe.

#### Membre invité

- **Rania Frad (2022)** : Toward the designation of the marine water of Garraf (Spain) as an Important Marine Mammals Area (IMMA). Mémoire de Mastère de la Faculté de Sciences de Sfax (FSS). 45pp+annexes.

## ACTIVITES DE RECHERCHE

### Expertise & consulting

**Expert IUCN** : expert scientifique de l'ACCOBAMS pour la période triennale **2023/2025**.

**Consultant** auprès de l'association Notre Grand Bleu, dans le cadre du projet « *Co-gestion des zones de non-prélèvement/AMP (MAVA-NTZ)* ». (2021)

- L'élaboration d'un support de cours dans le domaine de conservation de la biodiversité et plus précisément les espèces vulnérables et leurs interactions avec la pêche

**Consultant technique** auprès de la FAO pour réaliser une enquête sur les la pêche aux petits métiers côtiers dans la GSA 12 chargée de :

- ✓ La réalisation des enquêtes auprès des pêcheurs de la GSA 12 (La Galite, Tabarka, Bizerte, Ghar El Melh, La Goulette, Sidi Daoud),
- ✓ La caractérisation technique de la flottille et des engins de pêche employés dans la zone d'étude,
- ✓ La description de la mobilité de la flottille et des pratiques de pêche utilisées à la GSA 12,
- ✓ La description du calendrier de pêche (zone et période),
- ✓ L'inventaire des espèces ciblées,
- ✓ L'étude de la prise par unité d'effort (PUE).

### Coordination de projets

**Projet 1** : « *Atténuation des celles de la pêche des petits pélagiques dans la région de Kélibia* ». Mémoire d'Accord No. 05/2016/LB. 6410. (2016-2018)

Projet coordonné par les secrétariats exécutifs d'ACCOBAMS, CGPM et l'INSTM avec la collaboration du RAC/SPA. Etant coordinatrice, nous étions chargées de :

- ✓ La formation de l'équipe scientifique (technique de photo-identification-photo-ID, *matching*, Techniques et Engins de Pêche -TEP);
- ✓ L'organisation de journée de sensibilisation, atelier de concertation et un atelier de clôture auprès des pêcheurs de la région d'étude ;
- ✓ L'organisation des sorties en mer pour le suivi :
  - Des opérations de pêche ;
  - De la population du grand dauphin (suivi de la formation des groupes, détermination du modèle de résidence, du budget comportemental et de la structure sociale) ;
  - De l'avifaune marine ;
  - Des interactions entre les Grands dauphins et les oiseaux marins avec les filets de pêche ;
  - Des captures accidentelles des dauphins et des oiseaux ;
- ✓ Le choix, l'essai et la justification technique et économique du choix de la mesure d'atténuation acoustique (DDD-03-H) ;
- ✓ La gestion budgétaire du projet.



**Projet 2 : « Vers des solutions aux interactions entre communautés de pêcheurs et cétacés dans les eaux tunisiennes ».** Mémoire d'Accord No. 05/2019 (2019-2021)

Projet coordonné par les secrétariats exécutifs d'ACCOBAMS, CGPM, l'INAT et l'INSTM avec la collaboration du RAC/SPA. Etant coordinatrice, nous étions chargées de :

- ✓ Le travail en liaison avec l'Unité de suivi du Projet (ACCOBAMS, CGPM et SPA/RAC), les instituts nationaux et les autorités nationales pertinentes pour assurer le développement et la mise en œuvre de projet ;
- ✓ La mise en place de l'équipe de travail;
- ✓ L'organisation des ateliers de consultation avec l'équipe de travail pour discuter de la planification et de la mise en œuvre du projet dans les zones d'étude (port de pêche de Kélibia & ferme aquacole TTF-Teboulba);
- ✓ La formation de l'équipe scientifique (photo-ID, *matching*, TEP) ;
- ✓ L'organisation de journée de sensibilisation, atelier de concertation et un atelier de clôture auprès des pêcheurs et des aquaculteurs des régions d'étude ;
- ✓ L'organisation des sorties en mer, à Kélibia et à Teboulba, pour le suivi :
  - Des opérations de pêche (Évaluation de la sévérité de la déprédation, typologie des perforations, quantification des dégâts causés par la déprédation);
  - De la population du grand dauphin (suivi de la formation des groupes, détermination du modèle de résidence, du budget comportemental et de la structure sociale) ;
- ✓ Le choix, l'essai et la justification technique et économique du choix des mesures d'atténuation acoustiques (DDD-03-H, DiD-01 & Licado) ;
- ✓ La gestion budgétaire du projet.

**Projet 3 : « Vers des solutions aux interactions entre communautés de pêcheurs et cétacés dans les eaux tunisiennes ».** Mémoire d'Accord No. 05/2019 (2021-2022)

Projet coordonné par les secrétariats exécutifs d'ACCOBAMS, CGPM, l'INAT et l'INSTM avec la collaboration du RAC/SPA. Il s'agit de la deuxième phase du projet 2 mentionné ci-dessus. Nous étions appelées à reprendre les mêmes activités précédemment citées (projet 2) et à se focaliser sur les axes suivants :

- ✓ La formation de l'équipe scientifique (+*Passive Acoustic Monitoring*-PAM, régime alimentaire) ;
- ✓ L'installation d'un hydrophone fixe sous les cages de la ferme aquacole TTF (Teboulba) ;
- ✓ La réalisation d'un répertoire vocal des dauphins fréquentant la ferme aquacole ;
- ✓ Le suivi des opérations de pêche (+détection acoustique par hydrophone mobile de l'occurrence de dauphin dans l'aire d'exploitation, suivi du comportement des pêcheurs) ;
- ✓ La réalisation d'une étude socio-économique approfondie ;
- ✓ Le suivi à long-terme des mesures d'atténuation acoustiques pour délimiter la période d'accoutumance ;
- ✓ L'essai d'une nouvelle mesure d'atténuation technique (senne renforcée) ;
- ✓ L'intégration du Réseau National d'échouage ;
- ✓ L'analyse des contenus stomacaux des grands dauphins échoués le long des zones d'étude ;
- ✓ L'élaboration du plan de communication du projet (affiches, vidéos & bandes dessinées).

### Membre de projet

**Observatrice de la mégafaune marine dans le cadre du projet « Statut des élasmobranches, des tortues marines et des cétacés dans les pêcheries de sennes tournantes et palangre de surface au golfe de Hammamet ».** (2019-2021). C'est un projet coordonné par le SPA/RAC et ASCOB-Syrtis, en collaboration avec ACCOBAMS, MEDASSET, BirdLife International (BLI) et le Centre de coopération de l'UICN (UICN –Med)

- ✓ Réalisation d'une enquête préliminaire dans le port de Kélibia pour collecter des informations sur la situation de la pêche à la palangre de surface et à la senne tournante dans la région (effort de pêche, espèces cibles et accessoires débarquées, types de métiers utilisés, saisons de pêche...);
- ✓ Réalisation de sorties en mer par mois, pour les deux techniques de pêche mentionnées ci-dessus, pour l'évaluation et la description des circonstances des prises accidentelles.

**Jeune chercheuse** au sein du projet : « *Collaboration et renforcement des capacités pour une amélioration du suivi des cétacés en Méditerranée* ». (2017-2019). C'est un projet de collaboration entre le Centre National de la Recherche Scientifique (CNRS) au Liban, l'Observatoire Pelagis de l'Université de La Rochelle (France) et l'Institut National Agronomique de Tunisie (INAT).

- ✓ Session de formation et renforcement des capacités en techniques de suivi des cétacés par suivi aérien (O. Pelagis),
- ✓ Session de formation et renforcement des capacités en méthodes de suivi des populations côtière de grands dauphins (CNRS-Liban),
- ✓ Session sur les interactions des delphinidés avec l'industrie de la pêche (INAT) : Étude de cas : déprédation (pêche et aquaculture) et capture accidentelle ;
- ✓ Montage, gestion d'un réseau d'échouage et analyse scientifique des échouages : état de santé, causes de la mort, suivi des paramètres biologiques ;
- ✓ Visite terrain du port de pêche de la région de Kélibia et de la Ferme aquacole *Teboulba Tunisian Fishs* (TTF) ;
- ✓ Session formation en analyse statistiques des données d'observations visuelle par transect lineaire et intégration de l'ensemble des approches dans l'évaluation de l'état de conservation des populations de cétacés et séminaire d'analyse conjointe des données de l'ASI (O. Pelagis).

**Observatrice** dans le cadre du projet « *ACCOBAMS Survey Initiative (ASI)* ». (2018).

- ✓ Formation sur le logiciel SAMMO pour l'observation de la mégafaune marine et marine-litter ;
- ✓ Formation HUET (*Helicopter Underwater Escape Training*) : évacuation d'un hélicoptère, hélitreuillage et stage de survie en mer ;
- ✓ Observation aérienne à bord des avions push-pull couvrant la GSA 15 et 16 ;
- ✓ Observation aérienne à bord des avions push pull couvrant la GSA 12, 13 & 14 ;
- ✓ Formation logiciel *Logger* pour la mention des observations de la mégafaune marine ;
- ✓ Observation à bord du voilier scientifique *Song of the Whale* de la GSA 8, 9, 10 et 12 ;
- ✓ Sensibilisation du grand public dans le port de Bizerte.

**Membre du laboratoire « Sciences Halieutiques »**, chargée de :

- ✓ L'analyse typologique de la flottille de pêche le long de la GSA12 ;
- ✓ L'étude des engins de pêche des petits pélagiques et de leur impact sur le milieu marin ;
- ✓ Le suivi des interactions négatives entre les dauphins et les filets de pêche ;
- ✓ La participation dans l'amélioration des sennes tournantes coulissantes pour réduire l'intensité des attaques de dauphins sur les engins de pêche ;
- ✓ L'étude biologique des espèces démersales.



## PRODUCTION SCIENTIFIQUE

### Articles

#### Publications internationales avec Impact Factor sous presse

- **Benmessaoud, R., Chaeib, O., Cherif, M., Kouched, W., Bejaoui, N. & Missaoui, H. (sous-press):** Diet of Bottlenose dolphins (*Tursiops truncatus*) from the Tunisian coasts: Insights from stomach content analyses. *J. Frontiers*.
- **Virgili, A., Dekhil, M., Abdeljaoued-Tej, I., Benmessaoud, R., Bejaoui, N and Ridoux, V. (sous press).** The ACCOBAMS Survey Initiative reveals the importance of the strait of Sicily for marine megafauna. Submitted. *J. Frontiers*.
- **Cherif, M., Benmessaoud, R. & Capapé, Ch. (2022):** Growth patterns and age structure of mullus surmuletus (mullidae) from the northern coast of tunisia (central Mediterranean sea). *ANNALES · Ser. hist. nat.* vol.32 · n°1, pp. 1-10.
- **Cherif, M., Benmessaoud, R. & Capapé, Ch. (2021):** Age and growth parameters of the red mullet mullus barbatus (mullidae) from northern Tunisia (Central Mediterranean sea). *ANNALES · Ser. hist. nat.* vol.31 · n°2, pp. 1-8.
- **Koched. W., Alemany, F., Ben Ismail, S., Benmessaoud, R., Hattour, A. and Garcia, A. (2015):** Environmental conditions influencing the larval fish assemblage during summer. *Mediterranean Marine Science*. Vol 16/3, 2015, 666-681.
- **Cheour, M.K., Elgharsali, Benmasmoud, R. and Aloui-Bejaoui, N (2014):** Variation of steroid concentrations during the reproductive cycle of *Osilinus articulatus* (Gasteropoda, Prosobranchia) in the Kerkennah Islands ( Gulf of Gabes , Tunisia). *Cah. Biol. Mar.* 55 : 191-199.

#### Publications internationales indexées avec comité de lecture

- **Abd Rabou, A.F., Abd Rabou, M., Qaraman A. F. A., Abualtayef, M.T., Abd Rabou, A.R., Khalaf, N.A., Al-Sweirki, S.H., Jaber, I.M., Elnabris, K. J., Elkahlout, K. E., Shafei, A. A., Wafi, A.M., Abd Rabou, O. A., Ibrahim, Y. K., Al-Bursh, A; A., Jarayseh, B.S., Al-Hali, D. A., Hamode, K. A., Benmessaoud, R. M., Cherif, M. C., Madkour; H. A. & Madkour, A. A. (2021):** Sightings and Strandings of the Cetacean Fauna in the Mediterranean Coast of the Gaza Strip, Palestine. *ISRAA University Journal of Applied Science*. Volume 5: Issue 1, 153-186pp.
- **Benmessaoud, R., Chérif, M. and Koched, W. (2015):** Length-weight relationships of 15 ground fish species caught in tunisian deep water (sw mediterranean sea). *International Journal of Recent Scientific Research*. Vol. 6, Issue, 9, pp.6386-6388,
- **Benmessaoud, R., Chérif, M. and Bejaoui, N. (2013):** Baseline data on abundance, site fidelity and association patterns of common bottlenose dolphins (*Tursiops truncatus*) off the northeastern Tunisian coast (Mediterranean Sea). *J. CETACEAN RES. MANAGE.* 13(3): 211-219, 2013.
- **Benmessaoud, R., Chérif, M. and Bejaoui, N. (2013) :** Interactions entre le delphinidé *Tursiops truncatus* et les filets de pêche des sardiniers le long des côtes Nord Est de la Tunisie (la région de Kélibia). *J. Sci. Halieut. Aquat.*, 7:233-243. 2
- **Benmessaoud, R., Chérif, M., Jaziri, S., Rjeibi, O., Reynaud, C. and Capapé, C. (2013):** Biometry analysis of the snipefish, *Macroramphosus scolopax* (Linnaeus, 1758), from the northern Tunisian coast (central Mediterranean). *International Journal of Engineering and Applied Sciences*. Vol 4. N°2. 2013, pp. 37-41.

- **Benmessaoud, R., Chérif, M., Bradai, M.N. and Bejaoui, N. (2012):** Distribution of Bottlenose dolphin around kelibia (Northeastern of Tunisia) ». *Asian Journal of Contemporary Sciences*. Vol. 1, 2012, pp. 01-11.
- **Chérif, M., Benmassaoud, R., Missaoui, H. and Capapé, C (2013):** The Mullid species from Tunisian waters (Central Mediterranean Sea International Journal of Engineering and Applied Sciences. Vol 4. N°2. 2013, pp. 62-65.

#### Publications nationales indexées avec comité de lecture

- **Benmessaoud, R., GHARBI, M., Cherif, M., Koched, W. & Nakhla, L. (2023):** Overview of Bottlenose dolphin depredation in Teboulba region (East of Tunisia). *Bull. Inst. Natn. Scien. Tech. Mer de Salammbô*, Vol. 48, 2023.
- **Benmessaoud, R., Cherif, M., Karaa, S. & Koched, W. (2020):** Demography and social structure of resident population of bottlenose dolphin in Tunisian North-eastern coasts. *Bull. Inst. Natn. Scien. Tech. Mer de Salammbô*, Vol. 47, 75-85, 2020.
- **Benmessaoud, R., Cherif, M., Koched, W., Zaara, K. & Ben Moumen, Y. (2020) :** Inventaire des delphinidés dans la région Est de la Tunisie (Teboulba) : Suivi de la répartition spatiale, démographie et éthologie. *Bull. Inst. Natn. Scien. Tech. Mer de Salammbô*, Vol. 47, 63-75, 2020.
- **Cherif, M., Benmessaoud, R., Elhechri, F. Benmoumen, Y. & Zaara K. (2019):** Portrait de la filiere pêche artisanale dans le Golfe de Tunis: engins de pêche, calendrier d'activités et aires d'exploitation. *Bull. Inst. Natn. Scien. Tech. Mer de Salammbô*. Vol. 46, 33-39, 2019.
- **Benmessaoud, R., Cherif, M., Koched, W. & Karaa, S. (2018) :** Essai de la technique de Photo-identification pour l'étude de la population du dauphin commun (*Delphinus delphis*, Linné 1758) de la région de Kélibia. *Bull. Inst. Natn. Scien. Tech. Mer de Salammbô*, Numéro special. 15-18, 2018.
- **Benmessaoud, R., Cherif, M., Alessi, J., Ammar, Y., Koched, W. & Aloui- Bejaoui, N. (2017):** Bottlenose dolphin's interactions with aquaculture farm in the eastern of Tunisia: A preliminary study. *Bull. Inst. Natn. Scien. Tech. Mer de Salammbô*, Vol. 44, 2017.

#### Actes de colloques publiés (proceedings)

- **Benmessaoud, R., Cherif, M., Chakroune, A., Koched, W., Zaara, K. & Ben Moumene, Y. (2021).** Changement dans le volume et la composition des captures des sardiniers attribuable à la déprédation par *Tursiops truncatus* au Nord-Est de la Tunisie. *Cinquième Conférence Biennale dur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban.
- **Benmessaoud, R. & Cherif, M. (2021) :** IMMA : système d'alerte précoce pour la conservation du Grand dauphin *Tursiops truncatus* de la région Nord-Est de la Tunisie. *Cinquième Conférence Biennale dur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban.
- **Benmessaoud, R., Chakroune, A., Cherif, M., Koched, W., Zaara, K. & Ben Moumene, Y. (2021) :** Expérimentation de deux types de répulsifs acoustiques pour atténuer la déprédation au niveau des sennes au Nord-Est de la Tunisie. *Cinquième Conférence Biennale dur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban.
- **Benmessaoud, R., Koched, W., Cherif, M., Chakroune, A., Zaara, K. & Ben Moumene, Y. (2021) :** Spécialités des fermes aquacoles : *Tursiops truncatus* de la côte Est de la Tunisie (Teboulba). *Cinquième Conférence Biennale dur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban.



- **Cherif, M., Benmessaoud, R., Chakroune, A., Koched, W., Zaara, K. & Ben Moumene, Y. (2021)** : Utilisation du système Licado pour la prévention de la déprédation au niveau des sennes au Nord-Est de la Tunisie (Kélibia). *Cinquième Conférence Biennale sur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban.

## **COMMUNICATIONS**

### **Communications orales dans des manifestations scientifiques avec comité de lecture avec résumé**

- **Benmessaoud, R., Cherif, M., Ben Arfa, Y., Benromdhane, A., Zaara, K. & Ben Moumene, Y. (2024)**: Mitigation of Bottlenose dolphins depredation: *Tunisian experience & lessons learned*. Fish Forum Antalya 2024.
- **Ben Arfa, Y., Benmessaoud, R., Cherif, M., Ben Romdhane, A. & Kouched, W. (2023)** : Estimation de la perte économique de la déprédation par les dauphins (Port de Kélibia – TUNISIE). Sixth Conference on Cetacean Conservation in South Mediterranean Countries (CSMC6). 13 - 15 November 2023, Monastir, Tunisia
- **Bejaoui, N., Lopez-Marulanda, J., Benmessaoud, R., Kouched, W. & Adam, O (2023)**. Using acoustics to study dolphin behavior: experience acquired and proposed studies on the resident population of *Tursiops truncatus* in the Monastir region (Tunisia). Sixth Conference on Cetacean Conservation in South Mediterranean Countries (CSMC6)
- 13 - 15 November 2023, Monastir, Tunisia
- **Benmessaoud R., Cherif, M., Chakroun, A., Kouched, W., Ben AbdelHamid, S., Zaara, K. & Ben Moumene, Y. (2022)**: Combining two types of acoustics devices to mitigate bottlenose dolphin depredation on purse seine in Tunisian Northeastern coasts. Video (<https://smm.econference.io/public/YDaZE30/main/sessions/17715/107465>). 24<sup>th</sup> Biennial Conference on the Biology of Marine Mammals. Palm Beach, Florida, August 1-5, 2022.
- **Benmessaoud, R., Cherif, M., Chakroune, A., Koched, W., Zaara, K. & Ben Moumene, Y. (2021)**. Changement dans le volume et la composition des captures des sardiniers attribuable à la déprédation par *Tursiops truncatus* au Nord-Est de la Tunisie. *Cinquième Conférence Biennale sur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban. (En ligne).
- **Benmessaoud, R. & Cherif, M. (2021)** : IMMA: système d'alerte précoce pour la conservation du Grand dauphin *Tursiops truncatus* de la région Nord-Est de la Tunisie. *Cinquième Conférence Biennale sur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban. (En ligne).
- **Khalaf, G., Mahfouz, C., Bejaoui, N., Benmessaoud, R., Ridoux, V. & Spitz, J. (2021)**. Collaboration tripartite (Liban, Tunisie et France) pour une amélioration du suivi des cétacés en Méditerranée. *Cinquième Conférence Biennale sur la Conservation des Cétacés des Pays du Sud de la Méditerranée (CSMC5)*. Avril 2021. Liban. (En ligne).
- **Benmessaoud, R., Ammar, Y. & Bejaoui, N. (2017)** : Exploitation piscicole et Delphinidés : interactions et modèles de comportement de l'espèce *Tursiops truncatus* dans l'environnement de cages off-shore en Tunisie. *Quatrième Conférence Biennale sur la Conservation des Cétacés dans les Pays du Sud de la Méditerranée (CSMC4)*. Oran, Algérie – 11-13 Novembre 2017.
- **Benmessaoud, R., Ammar, Y. & Bejaoui, N. (2017)** : Détermination des variables suscitant le phénomène de déprédation entre *Tursiops truncatus* et les filets de sardiniers/ senneurs de la région de Kélibia (Tunisie). *Quatrième Conférence Biennale sur la Conservation des*

*Cétacés dans les Pays du Sud de la Méditerranée (CSMC4)*. Oran, Algérie – 11-13 Novembre 2017.

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- **Cherif, M., Benmessaoud, R., Benromdhane, A., Zaara, K. & Ben Moumene, Y. (2024):** Does the Licado system the most efficient dolphin depredation mitigation measure in Tunisian North-eastern purse seines? Fish Forum Antalya 2024
- **BENMESSAOU, R., CHERIF, M., BEN ROMDHANE, A. & KOUCHED. W. (2023):** Passive acoustic monitoring of the bottlenose dolphin *Tursiops truncatus* to determine continuous presence around a Tunisian eastern fish farm. Sixth Conference on Cetacean Conservation in the South Mediterranean Countries (CSMC6). 13 - 15 November 2023, Monastir, Tunisia
- **BENMESSAOU, R., CHAEIB, O., CHERIF, M., KOUCHED, W., BEJAOU, N. & ISSAOUI, H. (2023):** Diet of Bottlenose dolphins (*Tursiops truncatus*) from the Tunisian coasts: Insights from stomach content analyses. Sixth Conference on Cetacean Conservation in South Mediterranean Countries (CSMC6) 13 - 15 November 2023, Monastir, Tunisia
- **CHERIF, M., BENMESSAOU, R., KOUCHED. W. & BEN ROMDHANE, A. (2023):** Dolphin Deterrent Device-03-H two-year trial: Repeller or attractor? Sixth Conference on Cetacean Conservation in South Mediterranean Countries (CSMC6)
- 13 - 15 November 2023, Monastir, Tunisia
- **Benmessaoud R., Cherif, M., Chakroun, A., Kouched, W., Ben AbdelHamid, S., Zaara, K. & Ben Moumene, Y. (2022):** Combining two types of acoustics devices to mitigate bottlenose dolphin depredation on purse seine in Tunisian Northeastern coasts. 24<sup>th</sup> Biennial Conference on the Biology of Marine Mammals. Palm Beach, Florida, August 1-5, 2022.
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- **Benmessaoud, R. & Cherif, M. (2017)** : Nord-Est de la Tunisie : entre Important Marine Mammals Area (IMMA) et Cetaceans Criticals Habitats (CCH) pour les Grands dauphins (*Tursiops truncatus*). Quatrième Conférence Biennale sur la Conservation des Cétacés dans les Pays du Sud de la Méditerranée (CSMC4). Oran, Algérie – 11-13 Novembre 2017.
- **Benmessaoud, R. & Cherif, M. (2017)** : Chevauchement des habitats des Grands dauphins (*Tursiops truncatus*) et des dauphins communs (*Delphinus delphis*) au Nord-Est de la Tunisie. Quatrième Conférence Biennale sur la Conservation des Cétacés dans les Pays du Sud de la Méditerranée (CSMC4). Oran, Algérie – 11-13 Novembre 2017.
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- **Bejaoui, N., Benmessaoud, R., & Ben Abid, M. (2011)** : Les populations de Delphinidés des côtes nord et nord-est de Tunisie : observations, identification et cartographie au cours de deux campagnes de prospections. Participation Deuxième Conférence Biennale sur la Conservation des Cétacés dans les Pays du Sud de la Méditerranée (CSMC2) à El Jadida Maroc. Octobre 2011. C. affichée.
- **Benmessaoud, R., Ben Naceur, L & Bejaoui, N. (2010)** : Application de la méthode de la photo-Identification pour l'étude de l'abondance du grand dauphin *Tursiops truncatus* dans la région Nord-Est de la Tunisie ». Participation 2 ème colloque international Biodiversité et Ecosystèmes Littoraux « BEL » à Oran. Novembre 2010.

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- **Benmessaoud, R., Karaa, S. & Cherif, M. (2024)** : Cétacés du Golfe de Gabès. Colloque scientifique sur la biodiversité dans le Golfe de Gabès et la pêche aux éponges à Zarzis. Septembre 2024, Zarzis.
- **Benmessaoud, R., Cherif, M., Jaziri, S., Koched, W. & Zaara, K. (2019)**: First attempt to predict factors that could affect Bottlenose's dolphin depredation in the Tunisian sardine purse-seine fishery. *Seventh Meeting of the Parties to ACCOBAMS*. 5-8 November 2019, Istanbul, Turkey.
- **Cherif, M., Benmessaoud, R., Koched, W. & Zaara, K. (2019)**: Use of Dolphin Dissuasive Device (DDD-03H) to reduce interactions between bottlenose dolphins and sardine purse seine in the northeastern of Tunisia. *Seventh Meeting of the Parties to ACCOBAMS*. 5-8 November 2019, Istanbul, Turkey.

#### VIDEOS DE SENSIBILISATION & D'INFORMATION

- Les vidéos mentionnées ci-dessous ont été réalisées dans le cadre du projet MAVA-déprédation Tunisie (phase 1&2).
  - **Vidéo 1** : Déprédation au niveau des filets ciblant les petits pélagiques (phase 1) (<https://www.linkedin.com/feed/update/urn:li:activity:7018450226873032704/>)
  - **Vidéo 2** : Déprédation au niveau des filets ciblant les petits pélagiques (phase 2); ([https://www.linkedin.com/feed/update/urn:li:activity:7018439245463732224/?updateEntityUrn=urn%3Ali%3Afs\\_updateV2%3A%28urn%3Ali%3Aactivity%3A7018439245463732224%2CFEED\\_DETAIL%2CEMPTY%2CDEFAULT%2Cfalse%29](https://www.linkedin.com/feed/update/urn:li:activity:7018439245463732224/?updateEntityUrn=urn%3Ali%3Afs_updateV2%3A%28urn%3Ali%3Aactivity%3A7018439245463732224%2CFEED_DETAIL%2CEMPTY%2CDEFAULT%2Cfalse%29))
  - **Vidéo 3** : Interférence dauphin- aquaculture (<https://www.linkedin.com/in/rimel-benmessaoud-22591918/recent-activity/>) ;
  - **Vidéo 4** : utilisation de l'acoustique passive pour le suivi des dauphins autour des fermes aquacoles (<https://www.linkedin.com/feed/update/urn:li:activity:7018234929591283712/>) ;
  - **Vidéo 5** : Étude du régime alimentaires des Grands dauphins échoués le long des côtes tunisiennes (<https://www.linkedin.com/feed/update/urn:li:activity:7018550894933815296/>)
- Participation à la traduction en français et en arabe d'une vidéo qui s'inscrit dans la projet Déprédation-FAO : [https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3Dm3Ht3DmnZSA%26t%3D47s%26fbclid%3DIwAR0FAY\\_BFY9hrzV4g5WDS3qmyDa778mWTmWe8Kcpk2wuzelc\\_vaPLnWyzg&h=AT0WikwkQbnfXJHkwiHaqEv\\_701gWQNSldnsxX0TggICX\\_SYGyRFoUd88ZFDtDtKe5XNTRnpjB\\_khzj00hOKnVTdOvLRBkAOrpb4SoNCHN\\_U49y2875ewOtm3AWejs6B7Ns](https://l.facebook.com/l.php?u=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3Dm3Ht3DmnZSA%26t%3D47s%26fbclid%3DIwAR0FAY_BFY9hrzV4g5WDS3qmyDa778mWTmWe8Kcpk2wuzelc_vaPLnWyzg&h=AT0WikwkQbnfXJHkwiHaqEv_701gWQNSldnsxX0TggICX_SYGyRFoUd88ZFDtDtKe5XNTRnpjB_khzj00hOKnVTdOvLRBkAOrpb4SoNCHN_U49y2875ewOtm3AWejs6B7Ns)

#### AFFICHES D'INFORMATION

- Les **affiches** ci-dessous ont été réalisées dans le cadre du projet **MAVA-déprédation Tunisie (phase 2)** :
  - Affiche 1 : Déprédation au niveau des filets ciblant les petits pélagiques;



- Affiche 2 : Interférence dauphin- aquaculture;
  - Affiche 3 : Expérience tunisienne dans la dispersion des dauphins autour des pêcheries.
- Traduction d'une **bande de dessinée** qui s'inscrit dans le cadre du **projet MAVA-Déprédation**.  
<https://www.greenhumour.com/2022/12/cartoons-on-dolphin-depredation.html?fbclid=IwAR0pk-ddnnlb7lDMYnL30c-2D81qPTnCTWhDQarxedAQ2hiAMHT00317ExU>

## RAPPORTS SCIENTIFIQUES

- **Benmessaoud, R. (2025)** : Tunisie : Situation et conservation des cétacés. Rapport de synthèse. 39pp.
- **Benmessaoud, R., Cherif, M. & Koched, W. (2022)** : Vers des solutions aux interactions entre communautés de pêcheurs et cétacés dans les eaux tunisiennes. *Rapport final*. MoU ACCOBAMS N°05/2019, phase 2, 59pp + annexes.
- **Benmessaoud, R., Cherif, M., Koched, W., Chakroun, A., Ben Abdelhamid, S., Jaziri, S., Zaara, K. & Ben Moumene Y (2021)** : Vers des solutions aux interactions entre communautés de pêcheurs et cétacés dans les eaux marocaines et tunisiennes. *Rapport Final*. MoU ACCOBAMS N°05/2019, phase 1, 77pp+annexes.
- **Benmessaoud, R. (2018)** : Participation tunisienne au projet international ACCOBAMS Survey Initiative. Rapport de mission déposé auprès du CNRS-Liban dans le cadre du projet de collaboration AUF entre le CNRS-Liban, l'Observatoire Pelagis (université La Rochelle-France et INAT (Tunisie), 12pp.
- **Cherif, M. & Benmeassoud, R. (2018)** : La pêche aux petits métiers côtiers dans la GSA 12 : embarcations, techniques de pêche et distribution spatio-temporelle. *Rapport INSTM –FAO*, 36pp.
- **Benmessaoud, R., Cherif, M. Jaziri, S., Koched, W. & Zaara, K. (2018)** : Atténuation des impacts de la pêche à la senne aux petits pélagiques sur les delphinidés et les oiseaux marins de la région de Kélibia. *Rapport Final*. MoU ACCOBAMS N°05/2016/LB6410, 57pp.

## FORMATIONS, GROUPES DE TRAVAIL ET CONFERENCES

### Formations

- « **Assisting (sub) regional cooperation for the practical implementation of the MSFD second cycle by providing methods and tools for D11 (underwater noise)** ». Summit on underwater noise management latest updates & 2-day training session organisée par ACCOBAMS & CTN Spain, 14-16 Mars **2023**.
- « **Identification et la manipulation des oiseaux de mer pris accidentellement lors d'opérations de pêche** » organisée par CGPM, 09 Février **2022**, (En ligne) ;
- « **Identification des élasmobranches pris accidentellement lors d'opérations de pêche** » organisée par CGPM, 07 Février **2022**, (En ligne) ;
- « **Identification et manipulation des tortues marines pris accidentellement lors d'opérations de pêche** » organisée par CGPM, 03 Février **2022**, (En ligne) ;
- « **Identification et la manipulation des mammifères marins pris accidentellement lors d'opérations de pêche** » organisée par CGPM, 01 Février **2022**, (En ligne) ;
- « **QuiteMED2** » organisée par RAC/SPA & ACCOBAMS, 14-15 Décembre **2020** (En ligne) ;
- « **Online Course on the use of GIS in the establishment of AZA/Course** » organisée par CGPM, 23, 25, 27 Novembre et 1-2 Décembre **2020**, (En ligne) ;
- « **Plateforme EAD-IRESA** » organisée par l'IRESA, 04 Novembre **2020**, (En ligne) ;
- « **Statut des élasmobranches et des tortues marines et des cétacés dans les pêcheries de sennes tournantes et palangre de surface au golfe de Hammamet** » organisée par RAC/SPA, ACCOBAMS & FSS. Sfax, 27 novembre **2019**;
- « **Estimation de l'abondance des Cétacés dans le cadre du projet EcAp-MED II et de l'ACCOBAMS Survey Initiative** » organisée par RAC/SPA & ACCOBAMS, Bizerte, 25-28 Février **2019** ;
- « **ACCOBAMS training courses on photo id and databases for experts** » organisée par ACCOBAMS –CNRS Liban. Byblos, Liban, 1-5 Octobre **2018** ;
- « **Helicopter Underwater Escape Training (H.U.E.T)** » organisée par ACCOBAMS- l'Institut National de Plongée Professionnelle (INPP), Marseille, France, 28-29 Mai **2018** ;
- « **Formation des observateurs aériens du projet ACCOBAMS Survey Initiative (ASI)** » organisée par ACCOBAMS-PNUE-PAM-CAR/ASP. Cuers, France, 23 au 27 mai **2018** ;
- « **Les élasmobranches : Identification et biologie de conservation** » organisée par CAR/ASP, INSTM et ASCOB-Syrtis, Sfax, 23-25 Avril **2018** ;
- « **Jeu de Rôles** » : organisée par l'INAT, Tunis 17 Avril **2018** ;
- « **Ecole de terrain** » : : organisée par l'INAT, Tunis 18 Janvier **2018** ;
- « **Satellite data in fishery research: linking environmental data and species distribution** » organisée par MedSudMed-FAO. Tunis 8 - 11 Mai **2017**;
- « **Vers de développement d'activités de Whale- Watching responsable et de Pesca-tourism en Tunisie** » organisée par ACCOBAMS- MAVA- RAC/SPA. Tunis, 14-15 Mars **2017**.

### Ateliers et Working groups

#### Webinaire

- « **2nd meeting of the joint bycatch working group of ACCOBAMS and ASCOBANS** ». Atelier organise par ACCOBAMS et ASCOBANS. February 2025. *En ligne*



- « **Ingested marine litter monitoring and entanglement evidences in the accobams area** ». Atelier organisé par ACCOBAMS, Catania, April 2024. *En ligne* ;
- « **Cetaceans webinair** ». South West Ecosystems. University of Exeter, Marsh 2024. *En ligne*;
- **Second Workshop on ingested marine litter monitoring & entanglement evidences in the Adriatic Sea** ». Padova, Italy, 21-22 February 2024. *En ligne* ;
- **Ocean Predict 2024** ». 18th to 22nd November 2024. *En ligne* ;
- « **Regional training on genetic data collection and analysis** ». Atelier organise par ACCOBAMS, November 8th, 2023. *En ligne* ;
- **Pollution, overfishing and Bycatch; can we protect dolphins in the Mediterranean sea?**». Atelier organisé par EcoMarine Malta, 12 Avril 2023. *En ligne* ;
- **Économie bleue : une voie vers le développement durable de la pêche artisanale** ». Atelier organisé par CGPM, 12 Avril 2023. *En ligne* ;
- « **Meeting on the Regional Plan of Action to monitor and mitigate interactions between fisheries and vulnerable species in the Mediterranean and the Black Sea**». Atelier organisé par CGPM, 15 Fevrier 2023. *En ligne* ;
- « **Working Group on Fishing Technology (WGFiT)** » Atelier organisé par CGPM, 27-28 Septembre 2022. *En ligne*;
- « **Together for the Med - Know-how Webinar Monitoring Bycatch of Vulnerable Marine Species and Dolphin Depredation**». Atelier organisé par Together for the Med, 16 Mai 2022 *En ligne* ;
- « **MAVA Partnership Project- Sub-Regional Meeting for the Strait of Sicily-Tunisia**» Atelier organisé par SPA/RAC et MAVA, 22 Fevrier 2022 *En ligne* ;
- « **Improving Fisheries Policies in the Mediterranean Countries**». Atelier organisé par IUCN et MAVA, 10 Mars 2021 *En ligne* ;
- « **Mitigation Initiatives to Reduce Fishing Impacts on Vulnerable Species**». Atelier organisé par IUCN et MAVA, 3 Mars 2021 *En ligne* ;
- « **1st Meeting of the Joint Bycatch Working Group of ACCOBAMS and ASCOBANS** ». Atelier organisé par ACCOBAMS et ASCOBANS, 10-12 Février 2021 *En ligne* ;
- « **Presentation of the State of Mediterranean and Black Sea Fisheries 2020** ». GFCM online Forum, 14 Décembre 2020 *En ligne* ;
- « **MAVA Depredation Phase2 / First exchange workshop** ». Atelier organisé par ACCOBAMS, 16-18 Novembre 2020 *En ligne* ;
- « **Start of MAVA OAP M4/5 phase 2** ». Atelier organisé par MAVA Fondation, 26 Octobre 2020. *En ligne* ;
- « **Les impacts de la pêche et du changement climatique sur les ressources halieutiques : quels enjeux pour demain ?** ». Atelier organisé par Ocean & Climate Platform, 25 Septembre 2020. *En ligne* ;
- « **Data call on impulsive noise events in the ACCOBAMS Area** ». Atelier ACCOBAMS – QuitMed II, 10-11 Septembre 2020. *En ligne* ;
- « **The experience of small-scale fisheries in promoting social resilience and market innovation in response to the COVID-19 crisis** ». GFCM online Forum- Bulding fisheries and aquaculture resilience post COVID-19, 22 Juillet 2020. *En ligne* ;
- « **The experience of the aquaculture sector through best practices and mitigation measures facing the COVID-19 crisis** ». GFCM online Forum- Bulding fisheries and aquaculture resilience post COVID-19, 1 Juillet 2020. *En ligne* ;

### *Présentiel*

- « **Commercial Fisheries Interaction with Vulnerable Species**». Atelier organisé par ACCOBAMS - FAO-GFCM Joint Projects. January 2025.
- « **Comité d'Orientation du Programme Méditerranée** ». Réunion de la Monaco Océan Week organisée par l'Institut océanographique, Fondation Albert 1er, 20 mars 2024.
- « **Mitigating dolphin depredation in Mediterranean fisheries joining efforts for strengthening cetacean conservation and sustainable fisheries** » Atelier organisé par ACCOBAMS, 6 Octobre **2022**;
- « **International Bycatch Meeting** » Atelier organisé par IUCN, 4-6 Octobre **2022**;
- « **Mitigating dolphin depredation in Mediterranean fisheries joining efforts for strengthening cetacean conservation and sustainable fisheries- Second exchange workshop** » Atelier organisé par ACCOBAMS et MARECAMP, 8-10 June **2022**;
- « **ACCOBAMS drafting experts' workshop on bottlenose/common dolphins conservation management plans** » Atelier organisé par ACCOBAMS, 7-9 March 2022;
- « **ACCOBAMS Survey Initiative Western Mediterranean Sub-Regional Data Analysis Workshop: Estimation of marine mammal abundance**» Atelier organisé par ACCOBAMS, 14-18 February **2022**;
- « **Pêche et pêcheurs à petite échelle : Vers la possibilité du développement social** ». Atelier WWF, Sfax, 6-7 Février **2020** ;
- « **Élaboration d'un cadre juridique régional harmonisé pour la conservation des ressources biologiques marines et des écosystèmes de la Méditerranée** ». Atelier de lancement du projet pilote CGPM-MAVA, Tunis, 03 Avril **2019** ;
- « **Étude d'évaluation de la pêche et des autres usages maritimes autour de la création d'un réseau d'Aires Marines et Côtières Protégées du nord de la Tunisie** ». Atelier de restitution, 13-14 Février **2019**, Gammarth, Tunisie ;
- « **Plan d'Action pour la Conservation des Tortues Marines en Tunisie** ». Atelier de concertation National RAC/SPA, 20 Décembre **2018**, Monastir, Tunisie ;
- « **Quietmed Training Workshop Addressing The Practical Aspects Related To The Implementation Of A Regional Monitoring Programme Of Underwater Noise** ». Atelier, ACCOBAMS/ASCOBANS/SPA-RAC. 22 - 25 Octobre **2018**, Malte;
- « **Comprendre les captures accidentelles d'espèces vulnérables relevant de multiples taxa en Méditerranée et expérimentation des méthodes d'atténuation-une approche collaborative** ». Atelier, RAC/SPA. Monastir -Tunisie, 08 mai **2018** ;
- « **Marine debris and cetacean stranding** ». Atelier, *32<sup>st</sup> ECS Conference* - ACCOBAMS/ASCOBANS/SPA-RAC workshop on marine debris and cetacean stranding, 8 Avril **2018**, La Spezia, Italie;
- « **Towards understanding the overlap of selected threats and Important Marine Mammal Areas (IMMAs) across the Mediterranean Sea** ». Atelier, *32<sup>st</sup> ECS Conference* - ACCOBAMS/ASCOBANS/SPA-RAC workshop on marine debris and cetacean stranding, 8 Avril **2018**, La Spezia, Italie;
- « **Expert Meeting On The Mitigation Of Interactions Of Predators And Vulnerable Species With Fisheries**». Atelier, ACCOBAMS, Fuengirola (Málaga), Spain, 21 March **2018**;
- « **Atelier Régional du Groupe de Contact de l'ACCOBAMS Survey Initiative** ». Atelier, ACCOBAMS, 3 - 5 octobre **2017**, Gammarth, Tunisie ;
- « **Programme national de surveillance - Atelier national de concertation Projet EcAp Med II** ». Atelier, APAL-RAC/SPA, 20 avril **2017**, Gammarth, Tunisie ;



- « **Inputs to the ACCOBAMS ongoing effort to map human threats on Cetaceans in the Mediterranean and Black Seas** ». Atelier, *31<sup>st</sup> ECS Conference*, 30<sup>th</sup> April 2017, Middelfart, Denmark;
- « **Fostering inter-regional cooperation in underwater noise monitoring and impact assessment in waters around Europe, within the context of the European Marine Strategy Framework Directive** ». Atelier, *31<sup>st</sup> ECS Conference*, 29<sup>th</sup> April 2017, Middelfart, Denmark;
- « **Vers le développement d'activités de *whale watching* et de *pescatourisme* en Tunisie** ». Atelier, ACCOBAMS, 14-15 Mars 2017, Gammarth, Tunisie.

#### *Conférences internationales et nationales*

- Présence à une conférence internationale : **SMM**, 1-5 Aout 2022, Florida, Les États-Unis;
- Présence à une conférence internationale : **ECS Webinar**, 15-19 Mars 2021 ;
- Présence au **Forum on Fisheries Science in the Mediterranean and the Black Sea**, 10-14 Décembre 2018, FAO HQ, Rome, Italie;
- Présence et participation à une conférence internationale : **32<sup>nd</sup> European Cetaceans Society**. 06-10 Avril 2018, La Spezia, Italie;
- Présence et participation à une conférence internationale : **31<sup>nd</sup> European Cetaceans Society**. 01-03 Mai 2017, Middelfart, Denmark.

## MISSIONS EN MER

<b>Juillet - Aout 2018</b>	Survey de la mégafaune (cétacés, oiseaux, tortues, élasmodontes) et du marine litter de la région allant de <b>Monaco à la Sicile</b> à bord du Song of the Whale (SOTW).	Projet ASI (ACCOBAMS & ACCOBAMS-Marine Conservation Research)
<b>Janvier 2023-Mars 2023</b> <b>Octobre 2021 - Octobre 2022</b> <b>Septembre 2020 - Aout 2021</b> <b>Aout 2018 - Aout 2020</b>	Mission en mer dans la région de <b>Teboulba</b> pour la quantification des interactions négatives entre espèces menacées et les fermes aquacoles et essai d'atténuation.	
<b>Septembre 2020 - Aout 2021</b>	Mission en mer dans la région de <b>Ghar El Melh</b> pour la quantification des interactions négatives entre espèces menacées et les pêcheries et essai d'atténuation.	Projet de coopération entre INSTM, RAC/SPA, CGPM et ACCOBAMS
<b>Janvier 2023-Mars 2023</b> <b>Octobre 2021 - Octobre 2022</b> <b>Septembre 2020 - Aout 2021</b> <b>Aout 2018 - Aout 2020</b> <b>Avril 2016 - Avril 2018</b>	Mission en mer dans la région de <b>Kélibia</b> pour la quantification des interactions négatives entre espèces menacées et les pêcheries des petits pélagiques et essai d'atténuation.	
<b>Septembre 2023- Aout 2024</b>	Mission en mer dans la région de <b>Kélibia</b> et <b>Teboulba</b> pour la quantification des interactions négatives entre espèces menacées et les pêcheries des petits pélagiques et essai d'atténuation.	



## LOGICIELS

Domaine d'utilisation	Logiciels maîtrisés
Statistique	R - SPSS v.18 - Statistica v.6 – Primer - XLSTAT – PAST- SPAD.
Cartographie	Map Info v.8 - Arc view 2.3 – Arc Map 10.2 - QGIS 2.6/ 3.1 – SAS Planet.
Réseau social	SOCPROG 1.3, 2.4, 2.5, 2.8 – Net Draw.
Comportement	BORIS
Traitement d'images	DARWIN – File Maker Pro - Photoshop.
Traitement d'images (iMac)	Final Cut Pro – Magnification - VMware Fusion.
Navigation	Maxsea time Zero v.2.1.0. – Open CPN
Monitoring des cétacés	SAMMOA, Data Logger, Distance, Mark
Ecoute Acoustique	Pamguard

## LANGUES

Langue maternelle Autre (s) langue (s)	Arabe		Parler		Écrire
	Comprendre		Prendre part à une conversation	S'exprimer oralement en continu	
	Écouter	Lire			
Français	C2	C2	C1	B2	C1
Anglais	C1	C1	B2	B2	CA
Italien	A1	A2	A1	A1	A1
Niveau	A1/2 : utilisateur élémentaire – B1/2 : utilisateur indépendant – C1/2 : utilisateur expérimenté cadre européen commun de référence pour les langues				

### Certification :

Je soussigné Rimel BENMESSAOUD, certifie, que le présent CV me décrit fidèlement, ainsi que mes qualifications et mon expérience professionnelle.

**Curriculum vitae - Léa DAVID****Léa DAVID**

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France



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e-mail : lea.david2@wanadoo.fr

Nationality French

3 children

<b>Ph.D. in marine Ecology and Biogeography</b>
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**- Cetaceans -**

***Sea birds and turtles – Marine traffic and marine litter***

**Technical skills**

- **Consultancy** : To provide advice and technical assistance at local (DREAL, Parc naturel Marin, MPA), national (Office français de la biodiversité) and international level (SPA/RAC, ACCOBAMS) on International policies and scientific projects on species (cetaceans and marine turtles) of conservation concern, including relevant activities of Inter Governmental Organisations (IGO).
- **Research** : Management and administration of scientific programs, data analysis and synthesis and development of databases on cetaceans, sea birds, turtles, fishes, in relation with human activities, leadership for workshops, proposals for mitigation measures and conservation.
- **Techniques and methods** : Population monitoring, survey (by boat, helicopter and airplane), line and strip transect, acoustic survey, photo-identification, biopsy, echo sounder, behavior studies, spatial analysis with G.I.S., mitigation measures
- **Communication** : Presentation of scientific results (speaking or writing), publications in international journals, reports, workshops and conferences.
- **Licences** : driving licence, Permis mer Hauturier (boat licence) + certificat radiotéléphoniste restreint (VHF licence), scuba diving (level 2), initiator in apnea, first-aid worker, BOSIET/HUET.
- **Teaching and Training** : teaching on cetaceans and marine birds species (species determination, ecology, threats), population estimation, survey techniques and marine ecology ; and training on observation, counting and photo-identification at sea as well as on impact of noise and MMO/PAM role.

**Professional experiences**

**Since 2021** Co-leader for a study on the diet of cetaceans stranded along the French Mediterranean coasts, “REGALCEMED” project. Funded by PELAGOS France and Initiative Pelagos, in partnership with IFREMER and PELAGIS-Univ. La Rochelle.

**Since 2021** Co-leader for a methodological study on cetacean and turtle indicators within the framework of the European Habitat-Fauna-Flora Directive. **European Life Project “Conceptu Maris”**.

**2022/2023** Co-leader for a methodological study on the D1C4 and D1C2 indicators for cetaceans within the framework of the European Marine Strategy Framework Directive. **European DG-ENV “ABIOMMED” project**.

**2021** Co-leader for the study “Characterization of the anthropogenic environment of the Gulf of Lion bottlenose dolphin - Natura 2000 zone in territorial waters and offshore”. Funded by DREAL Occitanie/OFB, in partnership with Chorus Acoustic

**2019/2020** Co-leader for the study Importance and monitoring of bottlenose dolphins in the Natura 2000 sites “Posidonia of the Palavasian coast” and the “Espiguette sandbanks” and adjacent waters. DREAL Occitanie

**2020/2023** Vice-chair of the Scientific Committee of ACCOBAMS

**2017/2019** Co-leader of an European Interreg project on marine litter and megafauna in the Mediterranean Sea “MedSealitter”.

**2017/2019** Co-leader of the INTERACT Program: “Scenarios for a sustainable coexistence between men and dolphins on the French Mediterranean coast”.

- Since 2014** Co-leader, or partner, in charge of 7 studies founded by the PELAGOS Sanctuary for cetaceans or ACCOBAMS, in collaboration with French and Italian organisms (GECM, CIMA Foundation, ISPRA, GIS3M, Tethys Research Institute).
- Since 2013** Task manager for “critical Habitat and Marine Protected Area” within the Scientific Committee of ACCOBAMS
- Since 2011** co-leader of the FLT (ferry) monitoring network French part
- 2013/2015** Co-leader of the “Gulf of Lions” area in the collaborative study GDEGeM (*Tursiops truncatus* along the whole French Mediterranean coasts), coordinated by **GIS3M**, financed by MAVA Foundation, FRB and the AAMP.
- 2011/2012** Leader of the French Mediterranean part of the French National program PACOMM-SAMM aiming at acquiring knowledge from aerial survey on: cetaceans, seabirds, human activities and marine litter. In the frame of Natura2000 lead by the AAMP. Under the aegis of the University of La Rochelle.
- Since 2005** Co-leader of the scientific programs of the French NGO “écoOcéan Institut” following three topics: “Impact of human activities on cetaceans and their habitat in the Western Mediterranean Sea”, “preferential habitat and identification of vital areas for cetaceans and seabirds” and “monitoring cetaceans and seabirds populations : methodologies and efficiency”. In collaboration with the **French Navy**, the Nicolas Hulot Foundation (FNH), the **WWF-France**, **IFREMER**, SCS, Participe Futur, Cybelle Planète,...
- 2004/2005** (9 months). In charge of the scientific study “ Cetacean bycatch – Striped dolphins and drifnet off the French coasts”. Groupe d’Etude sur les Cétacés de Méditerranée (**G.E.C.E.M.**), funded by the French Ministry of Environment.
- 2004/2005** (11 months). In charge of the scientific study “ Interactions between Fin whales and maritime traffic in the Mediterranean Sea – estimation of collision risks with trading vessels and ferries”, **CNRS-CEBC**. Collaboration **WWF France** and **E.P.H.E.**, funded by the French Ministry of Environment.
- 2002/2003** (6 months). In charge of the scientific study “ Interactions between Fin whales and maritime traffic in the Mediterranean Sea – I. Passengers ferries”, Cap Ligures-WWF France. Collaboration **C.N.R.S.-C.E.B.C.**, **E.P.H.E.**, funded by the French Ministry of Environment.
- 2001/2002** (5 weeks at sea). In charge of mission, programme **C.N.R.S.** and CIRCé on Fin whales.
- 2001** (4 months, 1 at sea). In charge of the scientific study to estimate the Cetacean abundance in the international marine sanctuary. Cap Ligures-WWF France, funded by “Nature et Découverte”.
- 2000** (1 month ½, 1 at sea). In charge of the scientific expedition to estimate the abundance of *Tursiops truncatus* off the continental French coasts, in the framework of the E.P.H.E. in collaboration with WWF-France, WWF Italy and G.E.C.E.M.
- 1995/2000** (5 years ½, 14 months at sea) In charge of the scientific program intitled “Role and importance of submarine canyons on cetaceans and seabirds distribution in the north-western Mediterranean sea”. PhD work, funded by the French Ministry of Environment.
- 1995/2000** Partly in charge of the creation and realisation of the international program “POSEIDON” concerning the C.I.E.S.M. (International Commission for the Scientific Exploration in the Mediterranean Sea) studying the impact of human activities on the Cetaceans.
- 1999** (1 month, 15 days at sea). Partly in charge of a study comparing the detectability of cetaceans from a high speed ferry and a sailing ship.
- 1996/1997** (1 month at sea). Observer on the Oceanographic ship L’EUROPE from I.F.R.E.M.E.R.
- 1996** Partly in charge of the creation and realisation of the first Cetacean aerial surveys in the North western Mediterranean Sea.
- 1994/1995**. Trainer for eco-volunteers in Cetology, Ornithology and Marine Ecology considering the convention between E.P.H.E. and NGO Europe Conservation.

## Expert’s work

- 2023 Expert for the environmental inventory and support for Avoidance-Reduction-Compensation (ERC) measures concerning offshore wind turbine projects (Gulf of Lion) for cetaceans, birds and turtles



- Since 2023 : Member of the Scientific Committee of ACCOBAMS, task manager on Area-based measures for cetacean conservation
- Since 2023 Expert for supporting work on the extension of the port of Porto-Vecchio to minimize impacts on cetaceans
- Since 2020 Trainer (theory + practice) for Marine Mammal Observers (MMO) and adaptation of tools to the context (underwater work, coastal construction site, seismic vessel, etc.). Industrialists and construction companies.
- 2020/2023 Vice-chair of the ACCOBAMS Scientific Committee
- 2020 Expert for the review document for references on EcAp IMAP indicators, thresholds and reference values for cetaceans and turtles, Barcelona Convention (RAC/SPA)
- 2019-2021 Expert for supporting work on the extension of the port of Port-La-Nouvelle to minimize impacts on cetaceans
- 2019 Leader for the realization of the document and the workshop concerning the « Conservation and Management Plan for the Risso's dolphin » for ACCOBAMS**
- 2019 Teacher and trainer for the scientists of Turkey, for the ACCOBAMS on the techniques to study cetaceans at sea.**
- 2018 Expert for the document “Guidelines for monitoring Cetacean distribution, abundance and demography in the Mediterranean Sea” for the EcAp process, founded by the SPA/RAC.**
- 2018 Trainer for the aerial survey CeNoBS in the Black Sea**
- 2018 Leader for the aerial campaign of the ACCOBAMS Survey Initiative**
- 2018-2019 Co-leader for several workshop of capacity building for the experts of the ACCOBAMS area on method (photo-ID, G.I.S., line transect)**
- 2016 Aerial observer for the European aerial campaign at sea SCANS III**
- 2017-2018 Expert to help the Marine Natural Park of the Gulf of Lion for their strategy to monitor cetaceans in their area (from their needs to the realisation of indicators, including sampling scheme at sea and training on study methods).**
- Since 2017 Participation in the design, creation and animation of ACCOBAMS Netcobams online network tool**
- Since 2015 Leader and coordinator for the definition and implementation of the terms of references, the tools and a strategy to develop a high-quality training for Marine Mammals Observers (MMO/PAM) in the whole area of ACCOBAMS**
- 2014-2015 Co-leader of the study on “the state of knowledge of the ornithological heritage of the Gulf of Lions”. Financed by the AAMP.**
- 2015 Trainer for the team of the National Park of the Calanques on Cetaceans and marine turtles and their techniques of study. Assistance with the reflection for a monitoring of the populations in the perimeter of the Park and realization of documents and standard tools for this monitoring (June 1st-3rd, 2015)**
- 2015-2019 Co-leader in charge of the impact study and monitoring of cetaceans “Prediction and management of the underwater sound incidences generated by the project “Nouveau Portier” - Principality of Monaco.**
- 2014 Trainer and adviser for the researchers of the LRSE of the university of Oran (Algeria) for the monitoring of the cetacean populations around the Habibas islands and realization of documents and standard tools adapted for this monitoring (December 1st-5th, 2014)**
- Since 2013 Member of the Scientific Committee of ACCOBAMS for the IUCN.**
- 2013 Aerial observer for Tethys Research Institute, July 2013.**
- 2012/2015 Teacher for the scientists and the students (level Master degree) of the countries of the ACCOBAMS area, on the techniques to study cetaceans at sea.**
- 2011 Expert during the meeting of the SPA/RAC on the aspect of cetaceans for the discussions concerning the ASPIM “shelf and slope of the Gulf of Lions” (international).**
- 2011 Expert for the Scientific and Technic Committee (STC) of PELAGOS (international).**
- 2011 Expert for the IUCN workshop on sub-marine canyons.**

- 2011** Representing PELAGOS France in a Franco-Italian scientific workshop for the STC of ACCOBAMS.
- 2010/2011** Co-leader of a study on “the frequentation and the use of the marine heart of the future National park of the Calanques by the cetaceans and turtles”. For the **AAMP**, partnership with the COMEX and a study on cetacean for the Natura2000 site “Corniche varoise”.
- 2010/2014** Expert in scientific workshops for the MFSD (marine natural heritage (cetacean, sea bird, turtle and measures), at the level of the Mediterranean French Sea. Organized by the AAMP.
- 2009** Co-leader of a study of incidence on a Natura2000 area (habitat of *Tursiops truncatus* ) threaten by dredging of the harbour of Barcarès.
- Since **2009** Member of the Scientific committee of the Grouping of Public Interest for the creation of a National park of the Calanques (birds and marine mammals). Then, member of the scientific committee of the **National Park of the Calanques**.
- 2009/2010** Teacher and trainer for the scientists of the Lebanon, on methods to study cetaceans at sea, for the ACCOBAMS.
- 2009** Scientific leader of the project POLMED on marine litter.
- 2008/2010** Co-leader for the marine mammals and birds topics during the campaigns at sea of the “MEDSEACAN” (French Mediterranean canyons) project of the **AAMP**
- 2007/2010** Marine mammal Observer (MMO) and seabirds observer during aerial surveys made by EcoOcéan Institut aboard French Navy’s helicopter.
- Since **2007** Member Co-founder then vice-president of the Scientific Grouping of Interest on the Marine mammals of the Mediterranean and their habitat (**GIS 3M**).
- Since **2007** Member of the scientific committee of the project of participative/citizen science on the marine biodiversity in the Mediterranean Sea named “Cybelle Méditerranée” (Cybelle Planète).
- 2007** (1 month at sea). Marine Mammal Observer (MMO) for the CODA European project.
- 2006** (1 month at sea). Co-leader and observer for a study and recommendations to minimize the impact of seismic survey aboard the French **Ifremer** oceanographic vessels.
- 2005** (1 month at sea). Marine Mammal Observer (MMO) for the SCAN II European project.
- Since **2005** Expert for the Scientific Committee of **PELAGOS** (French). **2002/2003** (4 weeks). Scientific expert for the **Council of Europe** considering the Pan European Ecological Network, Coastal and Marine areas, biodiversity and protected areas.
- 2002** (1 week). Participation to the European scientific workshop “on submarine canyon systems”.
- 2001** (2 months). Redaction of a chapter in «*Cetaceans of the Mediterranean and Black seas, state of knowledge and conservation strategies* » under the **ACCOBAMS Secretary** (Agreement on the Conservation Of Cetaceans in the Mediterranean and Black Seas, Atlantic sea and Adjacent areas).
- 1995/1998** Partly in charge for the realization and data analysis of the **C.I.E.S.M.** International Program intituled POSEIDON, on cetaceans and human activities relative abundances.

## Communications

Peer reviewed published papers in international and national journals ; participation at international conferences and international workshops, speaking communications, posters ; international and national reports ; guest lecture, conferences, TV programs, radio program.

## Computer work

Software of word treatment (Word), Image and presentation treatment (POWERPOINT), data processing (Excel), G.I.S. (ARCGIS, QGIS), statistical processing (R), modelisation processing (DISTANCE), Internet.

## Languages

English : working use / German : conversational / French : maternal language

## Education

- |           |  |
|-----------|--|
| 1994/2000 | Ph.D. in marine ecology at the E.P.H.E. (Ecole Pratique des Hautes Etudes), Montpellier, France, laboratoire de Biogéographie et écologie des Vertébrés.   |
| 1993/1994 | D.E.A. (equivalent of 2 years required before Ph.D.) «Spatial system and regional planning», Strasbourg, France. <ul style="list-style-type: none"> <li>• G.I.S., teledetection, aerial photography, cartography</li> <li>• Biogeography, ecology, ecosystem analysis</li> </ul> |
| 1991/1993 | Licence + Maîtrise (equivalent to a M.sc.) of Physical geography, option biogeography and ecology, Strasbourg, France ; 4 months ERASMUS (european exchange) in Netherlands.   |

## Interests / Activities

- I believe and implement in my all day life the kindness and non-violent communication, and is greatly interested on psychology, philosophy of life and how to live together and new way of team management.
- My activities tend to natural environment, either through cultural activities (training course on raptor birds, medicinal plants, wine, or storytellers and tales) or **sports** (hiking, skiing, climbing, speleology). Most of them are linked to **water** : apnea (initiator), Scuba diving (level 2), swimming, canoeing, canyoning.
- I like the East (**Orient**), for its bamboo and its philosophy of life.
- I like to catch the moment given and work to create a picture in photography, and vary my approach through the use of different format : classic, panoramic or stereoscopic.



## Appendices C.V. Léa DAVID

### Articles, communications, lesson, congress

#### Ph D. work

DAVID Léa, 2000. *Rôle et importance des canyons sous-marins dans le talus continental sur la distribution des cétacés en période estivale en Méditerranée nord-occidentale*. Thèse de doctorat de l'Ecole Pratique des Hautes Etudes, Montpellier, 360 p.

#### Participation at international or national congress, conferences and workshops

- Workshop « How to address cetaceans conservation challenges in the strongly protected areas designation process? », project MSP4BIO, Octobre, Marseille
- Workshop “MSP Data Tools and Guidance Workshop: TEG on Data for MSP”, mars, en ligne
- Europe Marine Transborder Transect Workshop (IMPEL), 9th of April 2024, Catania, Italy.
- **Organisation** of the ACCOBAMS workshop “How to map human activities”, during the 35<sup>th</sup> ECS conference, 8<sup>th</sup> April 2024, Catania, Italy.
- Face-to-face meeting of the Working group on cetacean monitoring under MSFD in the scope of the ABIOMMED project, Rome, 14-15 June 2023,
- Europe Marine Transborder Transect Workshop (IMPEL), 17th of April 2023, Galicia, Spain
- Workshop: Thinking outside the box: management challenges for the conservation of small coastal cetacean populations”, 34th ECS annual conference. Sunday April 16th, O’Grove, Spain
- **Synergy workshop** ABIOMMED/CONCEPTU MARIS, 03 April 2023, online
- **Organisation** of a workshop on the ongoing process about Cetacean Critical Habitat (Cap d’Ail, 10-11 March 2022).
- Participation au workshop Conservation and Management Plan pour le Grand dauphin et le Dauphin commun (Cap d’Ail, 7-9 March 2022)
- Participation aux réunions du CORMON, RAC/SPA (2 réunions sur Database, 1 réunion CORMON, online)
- Groupe de travail sur le Marine Spatial Planning (MSP), participation aux ateliers du projet européen MSP-MED (2021-2022, 4 réunions online + Barcelone, 10-11 Mai 2022).
- Groupe de travail international technique sur les tortues marines, définition des indicateurs, valeurs de référence et seuils pour la DCSMM et le BEE (2020-2022, 4 réunions online)
- Workshop on “Conservation and Management Plan for the Risso’s dolphin”, Barcelona, Spain, 2-5 December 2019
- World marine Mammal Science Conference, Barcelona, Spain, 9-12 Dec. 2019
- Workshop “Keep on Gramping 2” (WMMC, 7 dec 2019, Barcelona, Spain)
- Workshop “towards coordinated marine mammal monitoring programmes for the MSFD second cycle 2020-2026” (WMMC, 8 dec 2019, Barcelona, Spain)
- Workshop on “Sea turtle GES”, 1<sup>st</sup> workshop on technical group, Paris, France, 25 nov. 2019
- Regional workshop of MedPan “Manage highly mobile species within Marine Protected Area in the Mediterranean Sea”, Akyaka, Turkey, 12-14 nov. 2019.
- Workshop on « regional approaches to acquire knowledge and identify and manage pressures at the Mediterranean level”, during the MedPan “Manage highly mobile species within Marine Protected Area in the Mediterranean Sea”, Akyaka, Turkey, 13 nov. 2019.
- MEDSEALITTER Final Event - International conference and workshop, Rome, Italy, 11-12 juin 2019.

- ICMMPA 5, Messinia, (Greece), 8-12 Avril 2019
- “The Identification of New ACCOBAMS Critical Cetacean Habitats: A Threat-Based Management Approach”, ICMMPA 5, Messinia, (Greece), Avril 2019
- “A Joint IWC-IUCN-ACCOBAMS workshop to evaluate how the data and process used to identify Important Marine Mammal Areas (IMMAs) can assist the IWC to identify areas of high risk for ship strike”, ICMMPA 5, Messinia, (Greece), Avril 2019
- European Joint Research Centre – Medsealitter joint workshop on “macro marine litter” Marine Floating Macro Litter, Rome, Italy, 14.-15. February 2019
- 32th Conference of the European Cetacean Society, 6-12 April 2018, La Spezia, Italy
- Workshop “joint ACCOBAMS/ASCOBANS/ECS/SPA-RAC workshop on marine debris and cetacean stranding”, 6th April 2018, La Spezia, Italy
- Workshop “Towards understanding the overlap of selected threats and Important Marine Mammal Areas (IMMAs) across the Mediterranean Sea”. 7 April 2018, La Spezia, Italy.
- Conference from RAMOGE “Ensemble, pour réduire les déchets marins”. Monaco, 12 September 2017.
- 31th annual Conference of the European Cetacean Society, 29 April/3 May 2017, Middelfart, Denmark.
- Workshop “Inputs to the ACCOBAMS ongoing effort to map human threats on cetaceans in the Mediterranean and Black Seas”, 30 April 2017, Middelfart, Denmark.
- Workshop “Best practice workshop: Fostering inter-regional cooperation in underwater noise monitoring and impact assessment in waters around Europe, within the context of the European Marine Strategy Framework Directive”, 29 April 2017, Middelfart, Denmark.
- Joint workshop on the identification of “Important Marine Mammal Areas” (IMMAs) in the Mediterranean Sea (IUCN Marine Mammal Protected Areas Task Force (MMPATF), ACCOBAMS et Tethys Research Institute), Chania, Greece, 24-28 October 2016.
- Workshop « Mediterranean survey gap analysis » organised par Duke University, Nice, 18-19 June 2016.
- Workshop “Developing tools to ensure high quality MMOs in the ACCOBAMS area”, 13 mars 2016, Funchal, Madère.
- 30th annual Conference of the European Cetacean Society, 12-16 mars 2016, Funchal, Madère.
- 21<sup>th</sup> Biennial Conference of the Society of Marine Mammal, San Francisco, USA, 12-18<sup>th</sup> Dec. 2015.
- Joint RAC/SPA, GFCM and ACCOBAMS Meeting on protection of marine areas in the Mediterranean and Black Sea, Tunis, 8-12 juin 2015
- RAC/SPA : Ad hoc Meeting du for the elaboration of the ‘Roadmap towards a comprehensive, ecologically representative, effectively connected and efficiently managed network of Mediterranean Marine Protected Areas by 2020’ Tunis, 28 avril 2015
- Workshop "Suivis pour la gestion des Aires Marines Protégées (AMP) de Méditerranée", MedPan, Tirana, Albanie, 26 nov. 2014
- Workshop on “Scientific progress on cetaceans and perspectives in the Pelagos Sanctuary”, annual Conference of the European Cetacean Society, 5 avril 2014, Liège, Belgique.
- FLT meeting : state of the art & vision for the future, Rome, 17-18 Novembre 2014.
- 15<sup>ème</sup> Séminaire du Réseau National Echouages, Ile de Ré, 26-27 oct 2013.
- 40<sup>ème</sup> congrès de la CIESM, Marseille, 28 oct-1er nov 2013
- IMPAC3, Marseille, 21-25 oct 2013
- Workshop on Mediterranean submarine canyons, IUCN, 26-27 avril 2011, Monaco

- 25<sup>ème</sup> annual Conference of the European Cetacean Society, 21-23 Mars 2011, Cadiz, Espagne
- 12<sup>ème</sup> Séminaire du Réseau National Echouages, Mont Saint Michel, 6-7 novembre 2010.
- Joint IWC-ACCOBAMS Workshop on reducing risk of collisions between vessels and cetaceans, 21-24 septembre 2010, Beaulieu-sur-Mer, France
- Symposium franco-japonais: "How minimizing the footprint of aquaculture and fisheries on the ecosystem ? 1-3 septembre 2010, Sète, France.
- Colloque "Ecologie 2010", 2-4 septembre 2010, Montpellier, France
- 24<sup>ème</sup> annual Conference of the European Cetacean Society, 22-24 March 2010, Stralsund, Allemagne
- Workshop on "fixed transect", annual Conference of the European Cetacean Society, 21 March 2010, Stralsund, Allemagne
- Workshop on "bycatch", annual Conference of the European Cetacean Society, 20 March 2010, Stralsund, Allemagne
- 11<sup>ème</sup> Séminaire du Réseau National Echouages, La Rochelle, 5-6 novembre 2009.
- 23<sup>ème</sup> annual Conference of the European Cetacean Society, 2-4 March 2009, Istanbul, Turkey
- Colloque sur les stratégies de suivi de l'état des populations de mammifères marins, 10<sup>ème</sup> Séminaire du Réseau National Echouages, La Rochelle, 21-23 novembre 2008.
- Workshop on "bycatch", projet ByCbams de l'ACCOBAMS, 17-18 Septembre 2008, Rome, Italy.
- Workshop on surveying the ACCOBAMS area. 15-17 May 2008, Monaco.
- 22<sup>ème</sup> annual Conference of the European Cetacean Society, 10-12 March 2008, Egmond aan Zee, The Netherlands
- Invitée au Joint ACCOBAMS/PELAGOS workshops on finwhale and collisions, 12-15 novembre 2005, Monaco.
- 14<sup>ième</sup> Conférence Internationale pour la Protection des Mammifères marins en Méditerranée occidentale. R.I.M.M.O., 19 novembre 2005, Marineland, Antibes, France.
- 19<sup>ème</sup> annual Conference of the European Cetacean Society, 2-7 Avril 2005, La Rochelle, France.
- 13<sup>ième</sup> Conférence Internationale pour la Protection des Mammifères marins en Méditerranée occidentale. R.I.M.M.O. et 6<sup>ème</sup>, Séminaire Annuel du Réseau National d'échouages. 13-14 novembre 2004, Palais des Congrès de Nice-Acropolis, France.
- Réunion du comité d'experts pour le développement du Réseau Ecologique Paneuropéen et du Réseau Emeraude, 16-17 octobre 2003, Dubrovnik, Croatie.
- Réunion du comité d'experts pour le développement du Réseau Ecologique Paneuropéen et du Réseau Emeraude, 2-4 octobre 2002, Riga, Lettonie.
- European workshop on submarine canyon systems, 7-10 Avril 2002, Sitges, Espagne.
- 14<sup>th</sup> Biennial conference on the Biology of Marine Mammals, 28 novembre-3 décembre 2001, Vancouver, Canada.
- 10<sup>ième</sup> Conférence Internationale pour la Protection des Mammifères marins en Méditerranée occidentale. R.I.M.M.O., 17 novembre 2001, Antibes-Juan-les Pins, France.
- 36<sup>ème</sup> congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée, 24-28 septembre 2001, Monte-Carlo, Monaco.
- 15<sup>ème</sup> annual Conference of the European Cetacean Society, 6-10 Mai 2001, Rome, Italie.
- 13<sup>ème</sup> annual Conference of the European Cetacean Society, 5-9 Avril 1999, Valencia, Spain.
- 5<sup>th</sup> Symposium de MEDMARAVIS, 29 sept.-3 oct. 1998, Gozo, Malte.
- 35<sup>ème</sup> congrès de la Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée, 31 mai-5 juin 1998, Dubrovnik, Croatie.
- World Marine Mammal Science Conference, 19-24 janvier 1998, Monaco, France.
- Curso de studio de Cetaceo, par Bernd Würzig, BALAENA, 10-11 mai 1997, Facultad de veterinaria de Madrid, Madrid, Espagne.
- 10<sup>th</sup> annual Conference of the European Cetacean Society, 11-13 march 1996, Lisbon, Portugal.



- 4<sup>ème</sup> Conférence Internationale pour la Protection des Mammifères marins en Méditerranée occidentale. R.I.M.M.O., 15-18 novembre 1995, Antibes-Juan-les Pins, France.
- Colloque Scientifique International de la Maison de l'Environnement de Montpellier : "La Méditerranée : variabilité climatique, environnement et biodiversité", OKEANOS 95, 06-07 avril 1995, Montpellier, France.
- Géoforum "profession Géographe", mai 1990, Toulouse, France.

## Oral communications, teaching, lessons and lectures

- **Training of certified ACCOBAMS “highly qualified MMO/PAM”** (November 2024)
- **Training of qualified “ferry” marine megafauna observers**, within the framework of the European Life Conceptu Maris project (2023, 2024)
- **Training of** Marine Mammal Observers MMO/PAM and mitigation measures for noise and its impact on cetaceans toward professionals and industrials (extension of harbour, submarine work, offshore Port-La-Nouvelle, Porto-Vecchio, La Ciotat 2020 & 2023 + Observers's from SINAY in 2022)
- **Trainer** for the aerial team (observers and leaders) for the aerial campaign in the Black Sea CeNoBS (12-16 June 2019, Tulcea, Romania)
- Training of staff of several French Marine Protected Area on monitoring methods for marine litter (from 5 to 6th June 2019).
- **Training of staff** of the Marine Nature Park of the Gulf of Lion on cetaceans and population monitoring methods (from 11 to 13 October 2017).
- **Trainer** (theoretical and practical) for the technical teams of French Marine Protected Areas (Mediterranean Sea) : monitoring and conservation of the Bottlenose dolphin, within the framework of the GDEGeM program (September 2015).
- General public conference on “Study of the Bottlenose dolphin, a species observed off the Cap d'Agde” to Festival S.I.M. (Sounds and Images of Sea), the 1<sup>st</sup> Nov.2014 at the Cap d'Agde
- **Citizen science at sea** : apports et limites pour la recherche et la conservation. Exemples en Méditerranée. 15<sup>ème</sup> Séminaire du Réseau National Echouages, Ile de Ré, 26-27 oct 2013
- Towards the concerted management of whale-watching in the Mediterranean Sea. **IMPAC3**, Marseille, 21-28 Oct. 2013
- Develop a strong scientific and managing network for the Bottlenose Dolphin conservation in the North-Western Mediterranean Sea. **IMPAC3**, Marseille, 21-28 Oct. 2013
- The National Park of the Calanques: a rich pelagic heritage in marine megafauna. **IMPAC3**, Marseille, 21-28 Oct. 2013
- **Teaching** on cetacean study techniques (observation, photo-ID, behavior and acoustics) in universities in Morocco and Lebanon (November 2012 and March 2013).
- Role and importance of sub-marine canyons for cetaceans and **seabirds**, IUCN workshop on Mediterranean submarine canyons, Monaco 26-27 avril, 2011
- **Teaching on cetacean counting techniques**, at the Marseille Oceanological Center, Master, November 2010, 2011 and 2012.
- Evaluation des zones à risque de collision entre grands navires et grands cétacés et proposition de solutions – aspect technique de l’approche spatiale par l’utilisation d’un SIG. Conference francophone ESRI, 29-30 sept. 2010, Versailles

- Five years studies about a french mediterranean artisanal fishery called «thonaille» - bycatch and solutions – French-Japanese Symposium, Ifremer, Sète, France, 1-3 septembre 2010
- Existing practices of monitoring by ecovolunteers : advantages and limits. Colloque sur les stratégies de suivi de l'état des populations de mammifères marins, 10ème Séminaire du Réseau National Echouages, La Rochelle, 21-23 novembre 2008. (*communication orale*).
- **Training** of the scientific team of the Marine Research Center of Lebanon, theoretical teaching on methods of prospecting and studying cetaceans at sea (line transect, photo-ID), ACCOBAMS mission, 1 week in September 2009 and 1 week in June 2010 (training and teaching)
- Evaluation of the risks of collision between finwhale and maritime traffic in the north-western mediterranean sea in summer, and mitigation solutions. **Joint ACCOBAMS/PELAGOS workshops** on fin whale and collisions, 12-15 novembre 2005, Monaco. (*communication orale*).
- Trafic maritime et cétacés, une cohabitation à parfaire. Journées PELAGOS. Nice. 5 mars 2005. (*communication orale*).
- Baleines et dauphins de Méditerranée : Espèces, habitat, menaces et protection. 29 Mai 2005. Balaruc-les-bains. (*conference*).
- Pollution, navigation and endangered species. Marine and coastal areas, Mediterranean and Black Sea. Réunion du Comité d'experts pour le développement du **Réseau Ecologique Paneuropéen**, 17 octobre 2003, (*communication orale*).
- **Corridors and ecosystems** - Marine and coastal areas, Mediterranean sea. Réunion du Comité d'experts pour le développement du **Réseau Ecologique Paneuropéen**, 2 octobre 2002, Riga, Lettonie, (*communication orale*).
- Role and importance of submarine canyon for cetaceans, **European workshop** on submarine canyon systems, 8 avril 2002, Sitges, Espagne, (*communication orale*).
- Nouvelles données sur la distribution et l'abondance relative des Rorquals communs et des Dauphins bleu et blanc dans le Sanctuaire corso-liguro-tyrrhénien, 10<sup>ème</sup> Conférence Internationale pour la Protection des Mammifères marins en Méditerranée occidentale. R.I.M.M.O., 17 novembre 2001, Antibes-Juan-les Pins, France, (*communication orale*).
- Summer distribution of breeding **seabirds** in the northwestern Mediterranean sea. **5<sup>th</sup> Symposium of MEDMARAVIS**, 29 sept.-3 oct. 1998, Gozo, Malte, (*communication orale*).
- "Les techniques de dénombrement des cétacés en milieu naturel" et "le peuplement des Cétacés en Méditerranée", Semaine de formation en Cétologie méditerranéenne, avril 1997, février 1998, avril 1999, 2000, 2001 et 2002, Sète, France, (*enseignement*).
- "les Cétacés" à la société Nautique du Grau du Roi - Port-Camargue, le 15 juin 1996, Port-Camargue, France, (*conférence*).
- "Les techniques de dénombrement des cétacés en milieu naturel", Stage de formation en Cétologie méditerranéenne, 13-17 février 1995, Sète, France, (*enseignement*).
- "Le milieu marin" (caractéristiques, écosystème, protection des organismes vivants) aux personnes embarquées sur les bateaux en 1994 et 1995, (*enseignement*).

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### Thematic 1 : ecology, biogeography and behaviour

#### • *Articles in scientific peer-reviewed journal*

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#### Articles and posters

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## Thematic 4 : seabirds, turtles, marine litter

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**Curriculum vitae - Maria Cristina FOSSI****CURRICULUM VITAE MARIA CRISTINA FOSSI****PERSONAL INFORMATION**

- Name Fossi Maria Cristina
- Address Università degli studi di Siena  
Via Mattioli 4 - Siena - 53100
- SCOPUS links <https://www.scopus.com/authid/detail.uri?authorId=57211159872>
- ORCID <https://orcid.org/0000-0003-0836-4020>
- E-mail [fossi@unisi.it](mailto:fossi@unisi.it)
- Nationality Italian
- Date of Birth 01/08/1958
- Gender Female
- Website <https://plasticbusters.unisi.it/>

**SCIENTIFIC SKILLS AND  
COMPETENCES**

- **Maria Cristina Fossi** is **Full Professor of Ecology and Ecotoxicology** at the Department of Physical, Earth and Environmental Sciences University of Siena (UNISI) and since 2000 is Scientific Director of the Biomarker Laboratory (CIBM-UNISI) and Plastic Busters Lab (UNISI). Maria Cristina Fossi is a renowned ecologist and ecotoxicologist, globally recognized for her innovative and groundbreaking contributions to marine ecotoxicology. Over the past thirty years, she has developed advanced methodologies to study the impact of toxic substances on marine ecosystems, focusing particularly on the effects of environmental contaminants on marine biota.
- Her **main research** has focused on: development of biomarkers in bioindicators in the marine environment and for off-shore and on-shore oil extraction (ENI-IT), evaluation of endocrine disruptors in marine species, assessment of cetacean ecotoxicological status in Mediterranean Sea, Gulf of California, Indian Ocean, investigation on presence and effect of microplastics and plasticizers in Mediterranean ecosystems.
- Since 1991 she developed innovative diagnostic tools for ecotoxicological assessment of threatened species (marine mammals, birds, reptiles) bringing to the establishment of methods (non-destructive biomarker approach) currently acknowledged as the golden standard at the international level.
- Thanks to her work on skin biopsies, she is a world reference for the assessment of ecotoxicological risk in cetaceans.
- In 2001 she published the first papers on effects of Endocrine Disruptors in Mediterranean marine top predators.
- In 2012 she provided the first evidence worldwide on the effects of microplastics on baleen whales.
- She is author or co-author of over **904** scientific publications, in detail **224 (IF)** articles and review articles, **7** books, **30** chapters, **28** journal articles in Italian, **55** abstracts in journals and over **560** abstracts in conference proceedings and several dissemination articles.
- She is involved in several International Scientific organizations (e.g. Past president of SETAC Italian Branch, SC International Whaling Commission, SC Pelagos Sanctuary, SC ACCOBAMS, Member of CORMON UNE/MAP).
- Her lab (10 researchers) has a central position for research on marine litter on the Mediterranean Sea and a key role in the implementation of the EU MSFD at national level (D8-D10) and IMAP Indicators (UNE/MAP). She has been panel member for evaluation of EU projects (eg. BONUS) and international institutions (e.g.: MISTRA (Sweden), Barcelona Convention, CIEMS, etc).
- During her scientific activity she coordinated **33** research projects at national and international level, including **18** projects on the impact of plastics in marine environments.
- She participated as PI at **70** research expeditions in the Mediterranean, Chile, Argentina, Mexico and Australia.
- She has been involved in the organization of more than **28** International Conferences and in more than **80** Conferences as Invited speaker.
- From 1983 onwards she has tutored/supervised about 120 master and PhD students.
- In the field of marine litter, she is the scientific coordinator (PI) of the "Plastic Busters"(PB) initiative elected as Flagship Project of Med-SDSN since 2013 (<https://plasticbusters.unisi.it/>). The Plastic Busters initiative, developed to monitor and

mitigate the impact of plastics in the Mediterranean sea, was labelled in 2016 from Union for the Mediterranean (UFM) (<https://ufmsecretariat.org/?s=plastic+busters>) and financed in 2018 by Interreg MED EU Programme – Plastic Busters MPAs. Plastic Busters initiative was also elected in 2019 as the flagship project for the “BLUEMED Pilot for a Plastic free healthy Mediterranean” from the EU.

- She is the WP3 coordinator of the COMMON, ENI-CBC project.
- In 2019-21 she has been the PI of the FEAMP Project AdriCleanFish supported by MIPAAF. In 2021 she was scientific coordinator (LP) of the PLASTIC BUSTERS CAP, ENI-CBC project. She is the PI of the E-Trace Project (PNRR SPOKE 4) and since 2022 she is the Local coordinator (PI-UNISI) of the Activity 1.2 SPOKE 2 “Zero pollution” in the NBFC.
- She is involved in an intense scientific communication and dissemination activity on the topic of the effects of marine litter and microplastics on biodiversity (including endangered species): media (RAI, SKY, BBC); magazines (La Repubblica, Corriere della Sera, The Independent, The Guardian, etc.); web and films “A Plastic Ocean” (<https://plasticoceans.org/about-a-plastic-ocean/>), PlasticBusters-SkyTG24 (<https://guidatv.sky.it/programmi-tv/attualita/plastic-buster/22760d06-5561-4c6a-abfe-7e31951556c9>), Odissea di Plastica- Sky - Sky (<https://tg24.sky.it/ambiente/2020/07/03/odissea-plastica>). Since 2016 Collaboration with “Pizzardi editore” for dissemination on the topic of marine litter for the new generations (Amici cucciolotti) [https://www.pizzardieditore.com/index.php?option=com\\_content&view=article&id=164](https://www.pizzardieditore.com/index.php?option=com_content&view=article&id=164)

## EDUCATION

• Dates (from - to)	<b>1983 – 1986</b>
• Name and type of organisation	Università degli Studi di Siena – Università degli Studi di Genova
• Principal subjects/occupational skills covered	Study of the Mixed Function Oxidases in Marine organisms exposed to xenobiotic compounds. The biomarkers approach the Mediterranean Sea.
• Title of qualification awarded	<b>PhD in Marine Sciences</b>
• Dates (from - to)	<b>1978 - 1981</b>
• Name and type of organisation	Università degli Studi di Siena
• Principal subjects/occupational skills covered	Detections of POPs in sea birds of the Mediterranean Environment
• Title of qualification awarded	<b>Graduate in Biology</b>

## FELLOWSHIPS AND TRAINING

- **1986 (March - April):** C.N.R.-British Council Fellowship - Visiting Scientist at the Institute of Marine Environmental Research of Plymouth, U.K. Studying metallothionein and lysosomal lability in mussels, supervised by Dr. M. Moore.
- **1989 (February - April):** C.N.R.-British Council Fellowship - Visiting Scientist at the University of Reading, UK. Conducting research on the biochemical detoxification responses of seabirds exposed to persistent toxic contaminants (role of the MFO system in the adaptation of pollutant-tolerant species in contaminated environments), supervised by Dr. C. Walker.
- **1990 (April - June):** European Science Foundation Toxicology Fellowship - Visiting Scientist at MRC Laboratories, Carshalton, UK, conducting research on the use of porphyrins as non-destructive biomarkers in avian species. Supervised by Prof. F. De Matteis.
- **1991 (March - May):** Visiting Scientist at the Environmental Division, Oak Ridge National Laboratory, USA. Research topics: Strategies for applying biomarkers in biomonitoring programs, in collaboration with Dr. L. Shugart, a leader in the field of Biomarkers.
- **1991 (November - December):** European Science Foundation Toxicology Fellowship - Visiting Scientist at MRC Laboratories, Carshalton, UK, conducting research on the evaluation of MFO activities in avian lymphocytes and erythrocytes. Supervised by Prof. F. De Matteis



**CURRENT POSITION**

- Dates (from - to) **2016 - today**
- Name and address of the employer **Università degli Studi di Siena (UNISI) – Dipartimento di Scienze Fisiche, della Terra e dell'Ambiente**
- Occupation or position held **Full professor Ecology (BIO/07)**

**PLASTIC BUSTERS LABORATORY**

Currently, she coordinates a research group composed of 10 researchers who carry out their research activities at the Plastic Busters - Biomarkers Laboratory of the Department of Physical, Earth, and Environmental Sciences at the University of Siena. In the laboratory, thanks to her ability to attract new members both nationally and internationally, a large number of undergraduate and master's students from the University of Siena, as well as students from other Italian universities (for collaborative thesis work), Erasmus students, and numerous international researchers and faculty members, rotate annually. Throughout her career, he has supervised the research activities of 19 Italian post-docs and 4 Marie Skłodowska-Curie Fellows, 9 visiting professor. Her has a central position for research on marine litter on the Mediterranean Sea and a key role in the implementation of the EU MSFD at national level (D8-D10) and IMAP Indicators (UNEP/MAP).

**RELEVANT ROLES AND COMPETENCES****MAJOR PROJECTS AND FUNDING (PI)**

- **1994-96:** Principal Investigator (PI) in the EU project "Evaluation of the Effects of Contaminants on Marine Ecosystems using Biomarkers". Collaboration with Universities of Reading and Plymouth, UK
- **1995-97:** PI of EU project "Use of Nondestructive Biomarkers to Assess the Health Status of Endangered Marine Mammals in the SW Atlantic" IT-ARG
- **1998-2001:** PI of the AGIP-ENI BIOAGRI-project "Biomarkers to Assess Ecotoxicological Risk Associated with Oil Production in Val d'Agr"
- **1999-2001:** PI of the ICRAM project "Development of Biomarkers to Assess Effects of EDs Compounds in Med Top Predators"
- **2001-06:** PI of the AGIP-ENI BIOMARE-projects "Biomarkers to Assess Ecotoxicological Risks of Off-shore Platforms in Med Sea" and "BIOTRE Use of Biomarkers to Assess Ecotoxicological Risks Associated with On-shore Extraction"
- **2005-07:** PI of the AGIP-ENI BIODIVERSITY-project "Ecotoxicological Risk Associated with Off-shore Extraction in Adriatic Sea"
- **2005-07:** PI of the project financed by the IT Ministry for the Environment (MATTM) "Ecotoxicological Investigations of Cetaceans in the Med Whales Sanctuary (IT-FR)"
- **2006-07:** PI of the ACCOBAMS project (MATTM) "Ecotoxicological Study of two Target Species of Cetaceans in Med"
- **2007-10:** PI of the bilateral project financed by the IT Ministry for Foreign Affairs (IT-MX) "Ecotoxicological Studies of two Fin Whale populations in the Med and in Mexico"
- **2008-10:** PI of the project financed by the IT Ministry for Agriculture "Ecotoxicological Impact of POPs and Emerging Contaminants in Med populations of Swordfish and Tuna"
- **2008-11:** PI of the project financed by UNISI (PAR) "Ecotoxicology of *C. caretta*"
- **2008-11:** PI of the project financed by ISPRA- MATTM "Study on Morbillivirus in Med cetaceans"
- **2009-11:** PI of the project financed by ISPRA "Ecotoxicology of Adriatic *T. truncatus*"
- **2010-12:** PI of the project with Southern Cross University financed by the Australian Government: "Anthropogenic contaminants in Queensland's coastal dolphins"
- **2011-13:** PI of the project financed by MATTM "The Emerging Issue of the Microplastics in Med: potential impact on Fin Whale"
- **2012-2014:** PI of PLASTIC Project, funded by Tuscany Region - POR CRO FSE Axis IV Human Value

- **2014-15:** PI of the project financed by MATTM "Plastic Pelagos; presence and effect of Microplastics in the Pelagos Sanctuary"
- **From 2013:** Scientific Coordinator for the project/initiative "Plastic Busters" initiated under the United Nations SDSN Mediterranean project (Plastic Busters <http://www.medsolutions.unisi.it/>). The project (involving 15 Mediterranean partners) dedicated to monitoring and mitigating the impact of plastics in the Mediterranean was "labelled" in February 2016 by the Union for the Mediterranean (UfM) and selected as a Flagship Project in the Mediterranean for this emerging issue ([ufmsecretariat.org](http://ufmsecretariat.org))
- **2014-15:** PI of the project financed by Tuscany Region for the monitoring of microplastics in Tuscany coast.
- **From 2015 until now:** PI of several Project on Awareness raising on plastic and bioplastics - Novamont S.p.A
- **From 2016 until now:** Scientific coordinator of the Project on Awareness raising on impact of Marine Litter on Med Biodiversity-Pizzardi
- **2017-2018:** PI of the project Synbra: Toxicological effects of bioplastic – BIOFOAM
- **From 2018:** Scientific coordinator of the "Plastic Busters: MPAs - Plastic Busters: preserving biodiversity from plastics in Med Marine Protected Areas" financed by MED-Interreg (ISPR-IP) <https://plasticbustersmpas.interreg-med.eu/>
- **2018-2023:** PI of the project - POR CRO FSE Axis IV Human Value - BioPIAcq
- **2019-2020:** PI of the FEAMP project AdriCleanFish: monitoring, collection and assessment of marine litter on fish species and sustainable fisheries. <https://www.unive.it/pag/40898>
- **2019-2023:** Local coordinator of the ENI CBC project COMMON: COastal Management and MOnitoring Network for tackling marine litter in Med Sea. PI of WP 3. <http://www.enicbcmmed.eu/projects/common>
- **2020-2023:** PI coordinator of the national Project Plastic Busters in Egadi Island MPAs Supported by Rotary International.
- **From 2020:** Local coordinator of Exploring the fate of Mediterranean microplastics: from distribution pathways to biological effects (EMME) PRIN 2017. Funded by MIUR.
- **2021-2024:** Scientific coordinator (PI) of the "Plastic Busters CAP- Fostering knowledge transfer to tackle marine litter in the Med by integrating EbA into ICZM". PI del WP 1 e WP2. Financed by EU ENI-CBC. <https://www.enicbcmmed.eu/projects/plastic-busters-cap>
- **2022-2024:** PI coordinator of the national Project Plastic Busters in PNAT MPAs – Supported by Rotary International.
- **2022-2024:** UNISI PI of the FEAMP project " Mo.Ri.net"-Monitoring, census, collection and start of recycling of ghost nets: fishermen protagonists of safeguarding the sea
- **From 2022 until now:** UNISI PI and WP3 leader of the National project " NBFC- SPOKE 2 – Action 1.2. ZERO POLLUTION.
- **2023- 2024:** PI of the IMA-UNEP/MA- project supported by ISPR- RAC/SPA. "Update of monitoring in support of integrated reporting activity monitoring and assessment program with regard to collection and validation of data relating to the pollution and marine cluster litter".
- **From 2024 until now:** PI of the E-TRACE project supported by OGS in the Spoke 4- PNRR

## PREVIOUS POSITION

- Occupation or position held
  - Dates (from - to)
- Name and address of the employer

### Associate professor Ecology (BIO/07)

**2013 –2015**

Università degli Studi di Siena (UNISI) – Dipartimento di Scienze Fisiche, della Terra e dell'Ambiente

- Occupation or position held
  - Dates (from - to)
- Name and address of the employer

### Member of Board of Directors (CDA) UNISI.

**2002 –2015**

Università degli Studi di Siena (UNISI) – Dipartimento di Scienze Ambientali

• Dates (from - to)	<b>1998-2002</b>
• Name and address of the employer	Università degli Studi di Messina
• Occupation or position held	<b>Associate professor Ecology (BIO/07)</b>
• Dates (from - to)	<b>1991 –1998</b>
• Name and address of the employer	Università degli Studi di Siena (UNISI) – Dipartimento di Scienze Ambientali
• Occupation or position held	<b>Researcher in Ecology (BIO/07)</b>
• Dates (from - to)	<b>1986 –1991</b>
• Name and address of the employer	Università degli Studi di Siena (UNISI) – Dipartimento di Scienze Ambientali
• Occupation or position held	<b>Post-doc fellow</b>

#### SINTETIC ACADEMIC RECORD UNTIL CURRENT POSITION

1986: PhD in Marine Sciences, Genoa University. 1991-98: Researcher in Ecology, UNISI. 1995-98: Member of the Teaching Committee for Degree Course in Biology, UNISI. 1998-2002: Associate Professor in Ecology (BIO/07), Messina University-UNIME. 1999-2002: Member of the Biotechnology and Cell Biology PhD Board, UNIME. 2002-15: Associate Professor in Ecology (BIO/07), UNISI. 2003-15: Member of the Environmental Sciences PhD Board, UNISI. 2002-08: Member of Teaching Committee for Specialist Degree Course in "Biodiversity, Ecology and Evolution", UNISI. 2006-09: President of the "Environmental Monitoring and Remediation" Specialist Degree Teaching Board, UNISI. 2008-12: President of the Teaching Board of the "Monitoring and Management of the Marine Environment" Specialist Degree, UNISI. 2011-12: President of the II Level Master on "Multidisciplinary Evaluation of the Environmental Quality of the Marine Environment", UNISI. From 2011: Member of the Environmental Sciences PhD Board, UNISI. 2012-14: Member of Teaching Committee for Specialist Degree Course in "Ecotoxicology and environmental Sustainability", UNISI. 2013-15: Member of Board of Directors (CDA).

#### DETAILS OF PREVIOUS POSITION UNTIL 2016

**1987-1991:** Research Fellow. Conducted pioneering research on the development of new methodologies for the assessment of toxicological risk in at-risk species using non-destructive biomarkers. Served as the Scientific Secretary for the "Summer School for the Multidisciplinary Assessment of Environmental Risks for Human Health," CNR-University of Siena.

**1991:** Visiting Scientist at the Environmental Division, Oak Ridge National Laboratory, USA. Research topics: Strategies for applying biomarkers in biomonitoring programs, in collaboration with Dr. L. Shugart, a leader in the field.

**1992:** Organized the first international workshop on "Non-destructive Biomarkers in Vertebrates" (Siena, Italy, 1992), followed by the publication of a book with the same title (Lewis Publisher, 1994), which laid the foundations for the development of new non-destructive methodologies for evaluating the ecotoxicological status of at-risk species.

**1992 (October):** Selected by the Ministry of Foreign Affairs as an expert for the EULA project in Chile. Carried out the first application of biomarkers to assess the effects of persistent toxic contaminants in freshwater environments in South America (Chile). Coordinated the establishment of the first Biomarker Laboratory in South America (EULA, Chile).

**1994-1997:** Expert in environmental monitoring for the CEE Europe - Latin America project (University of Concepción). Research topics: "Impact assessment of pentachlorophenol in the Biobío River basin (Chile)."

**1994-1996:** Local Scientific Coordinator for the European project "Assessment of the effects of pollutant compounds on marine ecosystems through the use of biomarkers," in collaboration with the University of Reading (UK) and the University of Plymouth (UK). Conducted numerous laboratory and field experiments using marine invertebrates as bioindicator organisms.

**1995-1997:** Scientific Coordinator for the European project "The use of non-destructive biomarkers to assess the health status of endangered species of marine mammals in the Southwest Atlantic (Italy-Argentina)." Conducted numerous sampling campaigns in Argentina. Carried out the first international application of non-destructive biomarkers on pinniped populations.

**1998-2001:** Scientific Coordinator for the AGIP-ENI project "BIOAGRI: Use of biomarkers for the ecotoxicological risk assessment of the Val d'Agri Oil Plant." Developed the first protocol based on the use of biomarkers to assess the ecotoxicological risk associated with onshore oil extraction activities.

**1999-2001:** Scientific Coordinator of the ICRAM project "Development of biomarkers for the assessment of exposure and effects of estrogenic compounds in top predators of the Mediterranean (Italy)." Published the first international studies on the effects of endocrine-disrupting chemicals (EDCs) in large marine predators.

**Since 2000:** National Delegate for the International Whaling Commission (IWC). His research supports activities against whale hunting within the Scientific Committee.

**2001-2006:** Scientific Coordinator for projects AGIP-ENI "BIOMARE: Use of biomarkers for the ecotoxicological risk assessment of offshore platforms in the Mediterranean Sea (Italy)" and BIOTRE: "Use of biomarkers for the ecotoxicological risk assessment of onshore extraction activities (Italy)." Conducted numerous laboratory and field experiments using marine and terrestrial invertebrates



and vertebrates as bioindicator organisms to evaluate the ecotoxicological effects of extraction activities.

**2005-2007:** Scientific Coordinator for the AGIP-ENI project BIODIVERSITY: "Use of biomarkers for the ecotoxicological risk assessment of offshore extraction activities in the Adriatic Sea (Italy)." Conducted numerous field experiments using marine invertebrates and vertebrates as bioindicator organisms for the ecotoxicological effects of extraction activities.

**2005-2007:** Scientific Coordinator for the project funded by the Ministry of the Environment: Ecotoxicological investigations for the monitoring and conservation of cetaceans in the Pelagos Marine Mammal Sanctuary (Italy-France). The first ecotoxicological studies with skin biopsies for the monitoring and conservation of cetaceans in the Pelagos Sanctuary.

**2006-2007:** Scientific Coordinator for the ACCOBAMS project funded by the Ministry of the Environment: Ecotoxicological study of two cetacean species (*Stenella striata* and *Balaenoptera physalus*) in the Mediterranean. Developed new biomarkers in cetacean skin biopsies

**2007-2023:** Permanent Member of the Scientific Technical Committee of the Pelagos Sanctuary and National Delegate – Ministry of the Environment, Territory and Sea Protection (Italy).

**2007-2010:** Scientific Coordinator for the project funded by the Italian Ministry of Foreign Affairs under bilateral agreements with Mexico: "Population and ecotoxicological studies on two populations of fin whales (*Balaenoptera physalus*) in the Mediterranean Whale Sanctuary (Italy) and Baja California (Mexico)." Conducted the first ecotoxicological studies with skin biopsies for the monitoring and conservation of cetaceans in the Sea of Cortez.

**2008-2010:** Scientific Coordinator for the project funded by the Italian Ministry of Agricultural and Forestry Policies: "Ecotoxicological impact assessment of Legacy and emerging contaminants, biology and ecology of Mediterranean populations of swordfish, bluefin tuna, and albacore."

**2008-2011:** Scientific Coordinator for the project funded by the University of Siena (PAR): "Ecotoxicological studies on the Mediterranean *Caretta caretta*."

**2008-2011:** Scientific Coordinator for the project (ISPRA – Ministry of the Environment): "Study of the effects of morbillivirus in Mediterranean cetaceans: investigations on the relationships between contamination by xenobiotic compounds, toxicological and immunopathological effects."

**2009-2011:** Scientific Coordinator for the project (ISPRA): "Ecotoxicology of *T. truncatus* in the Adriatic Sea."

**2010-2012:** Scientific Coordinator for the project funded by the Australian Government, Department of Sustainability, Environment, under the funding program "Anthropogenic contaminants in Queensland's coastal dolphins; levels and toxicological effects."

**2011-2013:** Scientific Coordinator for the project funded by the Ministry of the Environment: "The emerging problem of microplastics in the Mediterranean: potential impacts on fin whales." First global data on the effects of microplastics in whales.

**2012:** Scientific Coordinator for the project funded by the Tuscany Region, Goro Mare.

**2012-2014:** Scientific Coordinator for the project funded by the Tuscany Region - POR CRO FSE Axis IV Human Capital – Project Plastic.

**2014-2015:** Scientific Coordinator for the project funded by the Ministry of the Environment "Plastic Pelagos." The goal of the Plastic Pelagos project was to provide missing information and data on the presence and effects of Marine Litter in the Pelagos Sanctuary, using various marine species as sentinel species (particularly cetaceans).

**2013-2016:** Scientific Coordinator for the project funded by the Tuscany Region for the monitoring of microplastics along the Tuscan coast within the implementation of the MSFD, carried out in collaboration with ARPAT and the Tuscany Region.

## FELLOWSHIPS AND AWARDS

### FELLOWSHIPS AND INTERNATIONAL RECOGNITIONS

**1986 (March - April):** Visiting Scientist at The Institute of Marine Environmental Research of Plymouth, U.K. (C.N.R.-British Council Fellowship) – studying metallothionein and lysosomal lability in mussels, supervised by Dr. M. Moore.

**1987-1991:** Research Fellow. Conducted pioneering research on the development of new methodologies for the assessment of toxicological risk in at-risk species using non-destructive biomarkers. Served as the Scientific Secretary for the "Summer School for the Multidisciplinary Assessment of Environmental Risks for Human Health," CNR-University of Siena.

**1989 (February - April):** Visiting Scientist at the University of Reading, UK (C.N.R.-British Council Fellowship), conducting research on the biochemical detoxification responses of seabirds exposed to persistent toxic contaminants (role of the MFO system in the adaptation of pollutant-tolerant species in contaminated environments), supervised by Dr. C. Walker.

**1990 (April - June):** Visiting Scientist at MRC Laboratories, Carshalton, UK (European Science Foundation Toxicology Fellowship), conducting research on the use of porphyrins as non-destructive biomarkers in avian species. Supervised by Prof. F. De Matteis.

**1991 (March - May):** Visiting Scientist at the Environmental Division, Oak Ridge National Laboratory, USA. Research topics: Strategies for applying biomarkers in biomonitoring programs, in collaboration with Dr. L. Shugart, a leader in the field.

**1991 (November - December):** Visiting Scientist at MRC Laboratories, Carshalton, UK (European Science Foundation Toxicology Fellowship), conducting research on the evaluation of MFO activities in avian lymphocytes and erythrocytes. Supervised by Prof. F. De Matteis.

**1992:** Selected by the Ministry of Foreign Affairs as an expert for the EULA project in Chile. Carried out the first application of biomarkers to assess the effects of persistent toxic contaminants in freshwater environments in South America (Chile). Coordinated

the establishment of the first Biomarker Laboratory in South America (EULA).

**1994-1997:** Selected by the Ministry of Foreign Affairs as Expert in environmental monitoring for the CEE Europe - Latin America project (University of Concepción). Research topics: "Impact assessment of pentachlorophenols in the Biobío River basin (Chile)."

**Since 2000:** National Delegate for the International Whaling Commission (IWC). His research supports activities against whale hunting within the Scientific Committee.

**2007-2023:** Permanent Member of the Scientific Technical Committee of the Pelagos Sanctuary and National Delegate – Ministry of the Environment, Territory and Sea Protection (Italy).

## INTERNATIONAL AWARDS AND RECOGNITIONS

- Member of Scientific and Administrative Committees of Centro Interuniversitario Biologia Marina - **CIBM** (2000-25).
- Italian Delegate in the International Whaling Commission (**IWC**) **Scientific Commission (SC)** - MIPAF (2000-25).
- Member of **SC of Pollution 2025, IWC** (2007-25).
- Member of **Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and contiguous Atlantic area (ACCOBAMS) SC** (2019-25), IUCN Delegate.
- **UNEP/IMP** Laboratory Coordinator, CORMON UNEP/IMP Member. (2010-25).
- **President of the Society of Environmental Toxicology and Chemistry (SETAC) Italian Branch** (2011-12) and member of the SETAC EU committee.
- Member of Board of Directors (**CDA**) of UNISI (2013-15).
- International Award "**Mimosa d'oro**" Parma (2015) <https://associazionedonneambientaliste.eu/category/vincitrice-del-premio-una-mimosa-per-lambiente/>
- **Prize "7 Green awards"** Milano (2016). <https://www.dsfta.unisi.it/it/notizie/la-profssa-fossi-con-il-gruppo-biomarkers-vincono-il-premio-settegreen-awards-2016>.
- **Prize "Pelagos"** Legambiente (2019).
- **Price Rotary Plastic Busters Human Value**. 2018
- Elected **EU Ordinary Heroes** [https://europa.eu/euprotects/italy\\_en](https://europa.eu/euprotects/italy_en) (2020).
- "**Ritratto di Donne**" – Italiana - Ministry of Foreign Affairs- On the occasion of the Day of **Italian** Research across the World, the **Ministry of Foreign Affairs** and International Cooperation presents the Italian Top scientists. Selected as one of the Italian Top Scientists. (<https://www.youtube.com/watch?v=Uit-CYsmSpM>). (2022).
- **International Award Motomundi 2023** (<https://www.motumundi.it/premio/>). The Motumundi Award is given annually to an individual who, through their dedication and professional activity in Italy or around the world, has contributed their knowledge for the protection of the environment and climate, as well as for the protection of human health and the animal kingdom. The award was given to Maria Cristina Fossi, an internationally renowned scientist who provided the first evidence in the world of the effects of microplastics on whales.
- **Marlice Price 2024** - In 2024, the award was conferred to Maria Cristina Fossi for her unwavering commitment to the protection of marine biodiversity from the impact of plastics. <https://x.com/PlasticBusters/status/1793601664093663589?mx=2>.
- She was selected (2024-25) by the Ministry of Foreign Affairs as one of the **10 Italian researchers** to represent Italy worldwide for the **SWIT (Science Women of Italy)** project. It has been presented in Italian embassies around the world. The goal of the exhibition (is to promote awareness of the achievements in STEM – an acronym for Science, Technology, Engineering, and Mathematics – and the Italian women who have been protagonists in these fields, exploring the socio-environmental, cultural, and historical aspects while capturing the transformations that have occurred over time.

## SUPERVISION OF GRADUATE STUDENTS PHD, POST DOC

**Graduate students** at University of Siena (Master degree=MD, Bachelor Degree=BD) in the last 15 years (2010-2024):

- Eleonora Matrone: MD in Ecotoxicology and Environmental Sustainability, A.Y. 2023/24
- Matteo Massa: MD in Ecotoxicology and Environmental Sustainability, A.Y. 2023/24
- Alessia Giustarini: MD in Ecotoxicology and Environmental Sustainability. 2022/23
- Chiara Sablone: MD in Ecotoxicology and Environmental Sustainability, A.Y. 2022/23
- Francesca Polito: MD in Ecotoxicology and Environmental Sustainability, A.Y. 2022/23
- Leonardo Scarselli, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2021/22
- Giulia Gai: MD in Ecotoxicology and Environmental Sustainability, A.Y. 2021/22
- Chiara Dettoto: MD in Ecotoxicology and Environmental Sustainability, A.Y. 2021/22
- Nicolò Pieri, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2020/21
- Gabriele Gallorini, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2020/21

- Simone Piccidi, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2020/21
- Michela Panni, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2020/21
- Dario Ferlazzo, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2019/21
- Andrea Maria Ferri, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2019/21
- Rudi Mazzinghi, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2019/21
- Stefan Polini, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2019/21
- Andrea Maccantelli, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2019/2020
- Sofia Forconi, BD in Natural and Environmental Sciences, A.Y. 2017/18.
- Ilaria Bernardini, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2017/18.
- Isabella Calattini, BD in Natural and Environmental Sciences, A.Y. 2017/18.
- Margherita Concato, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2016/17.
- Rudi Mazzinghi, BD in Natural and Environmental Sciences, A.A. 2016/17.
- Erica de Rysky, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2015/16.
- Matteo Galli, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2015/16.
- Giacomo Limonta, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2015/16.
- Rita Mento, MD in Ecotoxicology and Environmental Sustainability, 2011/2012
- Matteo Galli, BD in Natural and Environmental Sciences, 2011/2012
- Maria Valeria Casà, MD in Ecotoxicology and Environmental Sustainability, A.A. 2012/13.
- Ballini Matilde, BD in Natural and Environmental Sciences, A.Y. 2011/12.
- Marta Romano, MD in Ecotoxicology and Environmental Sustainability, A.Y. 2011/12.
- Schillaci Francesca, MD in Monitoring and Management of marine environment, A.Y. 2011/12.
- Maria Luisa Vannuccini, MD in Monitoring and Management of marine environment, A.Y. 2010/11.
- Maddalena Manganelli, BD in Environmental Sciences, A.Y. 2010/11.
- Daiana Nannetti, BD in Environmental Sciences, A.Y. 2010/11.
- Chiara Nicosia, MD in Monitoring and Management of marine environment, A.Y. 2010/11.
- Silvia Picci, MD in Monitoring and Management of marine environment, A.Y. 2010/11
- Particelli Elisa, MD in Monitoring and Management of marine environment, A.Y. 2010/11
- Romaney Pinnock, MD in Biodiversity, Ecology and Evolution, A.Y. 2009/10.
- Matteo Baini, MD in Biodiversity, Ecology and Evolution, A.Y. 2009/10.

Since 1990 M.C Fossi has supervised other 35 graduate students which cannot be reported for brevity.

#### PhD students in the last 20 years:

- Andrea Maccantelli (2023-2026). Phd in Environmental, geological and polar sciences and technologies. DIN PNRR.
- Antonino Vincenzo Alessi (2023-2026). Phd in Environmental, geological and polar sciences and technologies. DIN PNRR.
- Chiara Dettoto (2023-2026). Phd in Environmental, geological and polar sciences and technologies.
- Margherita Concato (2021-2024). Phd in Environmental, geological and polar sciences and technologies.
- Matteo Galli (2018-2023). Phd in Environmental, geological and polar sciences and technologies.
- Victoria Anonieta Gomez Aburto (2017-2022). Phd in Environmental, geological and polar sciences and technologies.
- Giacomo Limonta (2016-2019). Phd in Environmental, geological and polar sciences and technologies.
- Dario Giani (2016-2019). Phd in Environmental, geological and polar sciences and technologies.
- Matteo Baini (2013-2016). Phd in Environmental, geological and polar sciences and technologies.
- Daniele Coppola (2012-2015). Phd in Environmental, geological and polar sciences and technologies.
- Silvia Maltese (2007-2010). PhD in Sciences and Technologies Applied to the Environment
- Ilaria Caliani (2005-2008). PhD in Sciences and Technologies Applied to the Environment
- Serena Porcelloni (2004-2007). PhD in Sciences and Technologies Applied to the Environment
- Daniela Bucalossi (2001-2004). PhD in Sciences and Technologies Applied to the Environment
- Gabriele Mori (2000-2003). PhD Environmental Biology.
- Since 1992 M.C Fossi has supervised other 6 PhD students which cannot be reported for brevity.

#### Post-Docs supervised at the University of Siena and Messina:

- Begona Jimenez (1998-2000); Silvia Casini (1998-2002); Roberta Minutoli (1998-2000); Gabriele Mori (2004-2006); Daniela Bucalossi (2004-2008); Serena Porcelloni (2008-2010); Silvia Maltese (2007-2011); Ilaria Caliani (2010-2022); Cristina Panti (2012-2021); Matteo Baini (2016-today); Giacomo Limonta (2020-today); Dario Giani (2020-today); Matteo Galli (2022-today).



## TEACHING POSITION

### 1. TEACHING ACTIVITY AT THE NATIONAL LEVEL AND TEMPORAL CONTINUITY

#### From the Academic Year (AY) 1987 to 1988

From the Academic Year 1987 to 1988, he held numerous seminars at the University of Siena and other Italian Universities (Milan, Piacenza, Viterbo) and taught substitute courses in ECOLOGY, APPLIED ECOLOGY, ECOTOXICOLOGY, BIOINDICATORS, and BIOMARKERS. He also taught numerous courses in advanced training programs and master's courses.

#### From the AY 1988 to the present

##### University of Tuscia

- AY 1998-99: APPLIED ECOLOGY at the Faculty of Environmental Sciences.

##### University of Messina Faculty of Mathematical, Physical, and Natural Sciences

- AY from 1998 to 2002: COASTAL ENVIRONMENT ECOLOGY, Bachelor's Degree in Biological Sciences
- AY from 1998 to 2002: MARINE ECOLOGY, Bachelor's Degree in Biological Sciences.
- Member of the Faculty Board of the PhD Program in "Biotechnology and Cell Biology" (1999-2002).

##### University of Siena - Faculty of Mathematical, Physical, and Natural Sciences/ Department of Physics, Earth and Environmental Sciences

- Member of the Faculty Board of the PhD Program in "Environmental Sciences" (2001-2016).
- AY 2002-04: LABORATORY OF ENVIRONMENTAL ANALYSIS. Bachelor's Degree in Environmental Sciences.
- AY 2003-04: LABORATORY OF ENVIRONMENTAL ANALYSIS 4, Bachelor's Degree in Environmental Sciences.
- AY 2003-04: ECOTOXICOLOGICAL ANALYSIS. Bachelor's Degree in Environmental Sciences.
- AY 2003-05: WATER BIOREMEDIATION. Bachelor's Degree in Biotechnology.
- AY 2006-07: BIOMARKERS (Master's Degree in Biotechnology for Human Health, Interfaculty Program).
- AY 2004-08: ECOLOGY. Bachelor's Degree in Biotechnology.
- AY 2002-09: INTERACTIONS BETWEEN XENOBIOTIC COMPOUNDS AND ANIMAL ORGANISMS. Master's Degree in Biological Sciences.
- AY 2005-08: BIOMARKERS, Master's Degree in Biotechnology for Human Health, Interfaculty Program.
- AY 2001-10: METHODOLOGIES OF BIOINDICATION AND BIOMARKERS. Master's Degree in Ecotoxicological Impact Analysis Technologies.
- AY 2007-11: MONITORING OF AT-RISK SPECIES IN MARINE ENVIRONMENTS. Master's Degree in Environmental Monitoring and Recovery Technologies.
- AY 2010 -12: MONITORING AND MANAGEMENT OF PORT AREAS. Master's Degree in Marine Environment Monitoring and Management.
- AY 2010-11: MARINE ENVIRONMENT MONITORING TECHNIQUES. Bachelor's Degree in Environmental Sciences.
- AY 2010-12: BIOLOGICAL EFFECTS OF POLLUTANTS. Bachelor's Degree in Environmental and Natural Sciences.
- AY 2012-13: BIOLOGICAL EFFECTS OF POLLUTANTS. Bachelor's Degree in Environmental and Natural Sciences.
- AY 2012-13: MONITORING AND CONSERVATION OF AT-RISK SPECIES IN MARINE ENVIRONMENTS. Master's Degree in "Integrated Assessment of Marine and Coastal Environmental Quality, Management, and Conservation."
- AY 2010-24: ANIMAL BIOINDICATORS AND BIOMARKERS. Master's Degree in Ecotoxicology and Environmental Sustainability.
- AY 2014 -25: MONITORING AND CONSERVATION OF AT-RISK SPECIES IN MARINE ENVIRONMENTS. Master's Degree in Ecotoxicology and Environmental Sustainability.
- AY 2023-25: APPLIED ECOLOGY. Bachelor's Degree in Environmental and Natural Sciences.
- Since 2012: Member of the Faculty Board of the PhD Program in "Environmental, Geological, and Polar Sciences and Technologies," Department of Physical, Earth, and Environmental Sciences, University of Siena.

She has participated in numerous Graduation and PhD Committees at both the University of Messina (1998-2002) and the University of Siena (1991-1998/2002-2024), as well as at Spanish, Portuguese, Norwegian, and Mexican Universities.

### 2. TEACHING ACTIVITY AT THE INTERNATIONAL LEVEL

**1992:** Series of lectures in the course "Ecotoxicological Prospects of Chemical Pollution in the Environment", University of La Laguna, Tenerife, Spain

1993: Series of lectures in the course "Ecotoxicology – European Environmental Research Organization" (EERO), Texel, Netherlands.

1993: Series of lectures in the course "General Toxicology – European Environmental Research Organization" (EERO), Lindau, Germany.

1994: Seminar in the course "Ecotoxicology - European Environmental Research Organization" (EERO), Texel, Netherlands.

1994: Series of lectures in the Master's course "Chemical Pollution of the Environment", University of La Laguna, Tenerife, Spain.

1997: Series of lectures in the course "Postgraduate Theory and Practice: Evaluation and Monitoring of Aquatic Pollution through the Use of Biomarkers" – University of Concepción - Chile.

2002: Series of lectures in the course "Postgraduate Theory and Practice: Evaluation and Monitoring of Aquatic Pollution through the Use of Biomarkers" – University of Concepción - Chile.

2003: Series of lectures in the course "Postgraduate Theory and Practice: Evaluation and Monitoring of Aquatic Pollution through the Use of Biomarkers" – University of Concepción - Chile.

2007-2008: Series of lectures "Use of Biomarkers" - CSIS - Ciudad Real, Spain.

2015: Seminar "Impact of Microplastics on Mediterranean Biota" at the Blue Growth Summer School, OGS Institute, Trieste.

2015: Seminar "Impact of Plastics on Marine Biodiversity" at the University of Baja California, Mexico.

2015: Seminar "Impact of Plastic on Mediterranean Biodiversity" at the DeFishGear Summer School, Nova Gorica, Slovenia

2017: Invited Lecture to Harvard University (USA) for the presentation of the movie "A Plastic Ocean"

From 2020 until 2023: Plastic Busters training course on Marine litter Monitoring in Tunisia, Jordania, Croatia, Greece, France.

2023: Seminar "The Plastic Busters Project in the Mediterranean" at GEOADRIATICO Summer School, Trieste

2025: Seminar at PLASTMED Summer School SZN- CRIMAC

## ORGANIZATION OF SCIENTIFIC CONFERENCES

### MEMBER OF THE ORGANIZING COMMITTEE/CHAIR

- International Workshop on Nondestructive Biomarkers in Vertebrates, University of Siena, Siena, May 1992. **Chair.**
- 15TH ESCPB Conference "Biochemical and Physiological Effects of Pollutants and Toxicological Assessment of Environmental Quality", Genoa, September 1994. **Member of the Scientific Committee.**
- 6th SETAC-Europe Annual Meeting, Taormina, May 1996. **Member of the Scientific Committee and the Local Organizing Committee.**
- Cuad. Invest. Biol., Bilbao, May 1998. **Member of the Scientific Committee.**
- Biological Effects of Pollutants: The Role of Environmental Proteomics and Genomics - European Society for Comparative Physiology and Biochemistry - 22nd Conference, Alessandria, Italy, 2003. **Member of the Scientific Committee.**
- Workshop on Marine Mammals Habitat Degradation, International Whaling Commission (IWC) - Siena, Italy, 2004. **Member of the Organizing Committee.**
- Pollution Responses in Marine Organisms PRIMO 13, Alessandria, Italy, 2005. **Member of the International Advisory Board.**
- Workshop on Marine Mammals and Climate Change, International Whaling Commission (IWC) - Siena, Italy, 2008. **Member of the Organizing Committee.**
- Pollution Responses in Marine Organisms PRIMO 15, Bordeaux, France, 2009. **Member of the International Advisory Board.**
- European Society for Comparative Physiology and Biochemistry 27th Conference, Alessandria, Italy, 2010. **Member of the International Advisory Board.**
- SETAC-IB Workshop on "Ecotoxicology of Large Marine Vertebrates: Potential Sentinels of Good Environmental Status of Marine Environment, Implications on European Marine Strategy", Siena, Italy, 2012. **Chair.**
- SETAC-IB Workshop on "Large Marine Vertebrates as Sentinels of GES in the European MSFD", Siena, Italy, 2013. **Chair.**
- Plastic Day: Marine Litter, Effects, Mitigation, and Sustainable Solutions, Siena, March 2016. **Chair.**
- The Plastic Busters Project; Moving Forward, Siena, April 2016. **Chair.**
- Micro 2016, Lanzarote, Spain, May 2016. **Member of the Organizing Committee.**
- The Plastic Busters Project; 2nd Meeting, Siena, July 2017. **Chair.**
- The Plastic Busters MPAs Project; Kick-off Meeting, Siena, April 2018. **Chair.**
- SETAC Rome 2018 **Member of the Local Organizing Committee.** - Special Session: Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea, **Chair.**
- Micro 2018, Lanzarote, Spain, 2018. **Member of the Organizing Committee. Chair.**
- BlueSeaLand – Mazara del Vallo, October 4-7, 2018. **Member of the Organizing Committee. Chair.**

- Plastic Busters Technical Workshop, Bonifacio, November 8, 2018. **Lead Organizer.**
- MARLICE 2019 International Forum on Marine Litter and Circular Economy, Seville, Spain, April 8-10, 2019. **Member of the Organizing Committee.**
- Plastic Busters Technical WP4 Planning Workshop, Milazzo (Italy), May 9, 2019. **Lead Organizer.**
- MicroMED – International Conference, Capri (Italy), September 15-18, 2019. **Member of the Organizing Committee. Chair.**
- Final Conference FEAMP AdriCleanFish “Tutela della biodiversità in Adriatico: monitorare, raccogliere e valutare gli impatti dei rifiuti marini sulle specie ittiche”, 24 September 2020. **Member of the Organizing Committee. Chair.**
- MICRO2020. Fate and Impact of Microplastics: Knowledge and Responsibilities. Lanzarote and beyond (online conference), 23-27 November 2020. **Member of the Organizing Committee. Chair.**
- The Plastic Busters MPAs CAPITALIZATION CONFERENCE “Plastic Busters MPAs consolidates efforts to slash marine plastic pollution in Mediterranean Marine Protected Areas”, 12-13 April 2022, Athens, Greece. **Member of the Organizing Committee. Chair.**
- 31st Congress of the Italian Society of Ecology (SIte). Ecosystem Adaptations to the Pressures of the Anthropocene. Siena, September 13-15, 2022. **Organizing and Scientific Committee, Conference Chair.**
- Final conference/AB meeting/SC meeting COMMON project, Tunis and INSTM Headquarters (Tunisia) February 7-9, 2023. **Organizing Committee.**
- MARLIPPO - Marine Litter and Plastic Pollution International Workshop, Lecce, May 16, 2023. **Member of the Organizing Committee. Chair.**
- Marine Litter and Pollution: Research, Monitoring, and Mitigation Actions in the Mediterranean Sea. Festival on Climate and Environment **Motomundi 2023**, Siena, October 13, 2023. **Organizing Committee.**
- Final Hybrid Conference Plastic Busters CAP. Marine Litter: Causes, Impacts, and Solutions - Insights from Plastic Busters CAP, Aqaba (Jordan) e Siena (Italy), 8 November 2023. **Organizing Committee.**
- Workshop on Ingested Marine Litter Monitoring and Entanglement Evidence in The ACCOBAMS Area, 6-7 Aprile 2024, Catania. **Organizing Committee.**
- MICRO 2024, Plastic Pollution from macro to nano, 23-27 September 2024. **Scientific and Organizing Committee.**

## INSTITUTIONAL RESPONSIBILITIES

### ACADEMIC

- **1998-2002:** Member of the Teaching Committee for Degree Course in Biology, UNISI.
- **1999-2002:** Member of the Biotechnology and Cell Biology PhD Board, UNIME.
- **2003-15:** Member of the Environmental Sciences PhD Board, UNISI.
- **2002-08:** Member of Teaching Committee for Specialist Degree Course in “Biodiversity, Ecology and Evolution”, UNISI.
- **2006-09:** President of the “Environmental Monitoring and Remediation” Specialist Degree Teaching Board, UNISI.
- **2008-12:** President of the Teaching Board of the “Monitoring and Management of the Marine Environment” Master Degree, UNISI.
- **2011-12:** President of the Master on “Multidisciplinary Evaluation of the Environmental Quality of the Marine Environment”, UNISI.
- **From 2011 until now:** Member of the Environmental Sciences PhD Board, UNISI.
- **2012-14:** Member of Teaching Committee for Specialist Degree Course in “Ecotoxicology and environmental Sustainability”, UNISI.
- **2013-15:** Member of Board of Directors (CDA), UNISI.
- **2017-2023:** Member of Board of Joint Commission – students/professors of the DSFTA Department (UNISI).
- **2020-2024:** Member of the Salary Advancement Evaluation Committee at UNISI.

## INSTITUTIONAL RESPONSIBILITY AT INTERNATIONAL AND NATIONAL LEVEL

- **2000-25:** Italian Delegate in the International Whaling Commission (IWC) **Scientific Commission (SC)** -MIPAF
- **2010-23:** Italian Delegate in the **Pelagos Sanctuary SC** - MIPAF
- **2007-25:** Member of **SC of Pollution 2025, IWC**
- **2015-19:** National Delegate for Marine Strategy Framework directive (MSFD) Technical Group Marine Litter (EU).
- **2014-15:** Panel evaluating members for EU Commission (BONUS - Science for a better future of the Baltic Sea region - <http://www.bonusportal.org/>).
- **2016-18:** Panel member nell'ambito MISTRA (THE SWEDISH FOUNDATION FOR STRATEGIC ENVIRONMENTAL RESEARCH – Svezia - <http://www.mistra.org/en/mistra.html>) Background paper: Plastics in a sustainable society per apertura di bandi di ricerca internazionali
- **2014** Panel member CIEMS



- **Since 2017:** Permanent Member of the Scientific Technical Committee of Consorzio Nazionale Interuniversitario per le Scienze del Mare (CONISMA). Delegate for UNISI (<https://www.conisma.it/it/>)
- **Since 2018:** Permanent Member of the Scientific Technical Committee of Centro Interuniversitario Biologia Marina (CIBM) Delegate for UNISI (<https://www.cibm.it/>)
- **Since 2020:** Permanent Member of the Scientific Technical Committee of LEGAMBIENTE
- **Since 2022:** Permanent Member of the Scientific Technical Committee of Marevivo
- **Since 2020:** Permanent Member of the Scientific Technical Committee of The Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and contiguous Atlantic area (ACCOBAMS) Delegate for IUCN (<https://accobams.org/>)

## REVIEWING AND EDITORIAL ACTIVITIES

### EDITORIAL BOARD OF INTERNATIONAL JOURNALS

Member of the Editorial Board of Ecotoxicology - Springer (2000-06)  
 Member of the Editorial Board of Biomarkers -Taylor and Francis (2006-11)  
 Associated Editor of Environmental Pollution - Springer (from 2015 until now);  
 Member of the Editorial Board of Frontiers in Marine Science - Frontiers (from 2015 until now).

### BOOKS

Fossi, M.C., Panti, C. (2018) Marine mammal ecotoxicology: Impacts of multiple stressors on population health Marine Mammal Ecotoxicology: Impacts of Multiple Stressors on Population Health (2018), Pages 1-486. ISBN: 978-0-12-812144-3.  
 Baztan J., Bergmann M., Carrasco A., Fossi C., Jorgensen B., Miguelez A., Pahl S., Thompson R.C., Vanderlinden J-P. (Eds.) (2018), MICRO 2018. Fate and Impact of Microplastics: Knowledge, Actions and Solutions. 414 pp. MSFS-RBLZ. ISBN 978-84-09-06477-9. CC-BY-NC-SA.  
 M. Baini, C. Pedà, C. Panti, I. Caliani, S. Casini, C. Leonzio & M.C. Fossi. (2017) Bioindicator Selection In The Strategies For Monitoring Marine Litter In The Mediterranean Sea, UNISI, UfM, SDSN, pp.81. ISBN: 798-88-961-5107-5.  
 Maria Cristina Fossi. (2000) Biomarkers, strumenti di diagnosi e prognosi ambientale. p.1-135, FIRENZE: Rosini Editor, ISBN: 8886461607.  
 Maria Cristina Fossi, C Leonzio (1994). Nondestructive biomarkers in vertebrates. p.3-345, BOCA RATON: Lewis Publishers, ISBN: 0873716485  
 A Renzoni, N Mattei, L Lari, Maria Cristina Fossi, (1994). Contaminants in the environment. A multidisciplinary Assessment of Risks to Man and Other Organisms. p.3-286, BOCA RATON: Lewis Publishers, ISBN: 0873718534  
 S Focardi, C Leonzio, Maria Cristina Fossi, O Parra, JF Gavilan, R Barra, J Tapia (1993). Evaluacion preliminar da la calidad del agua y del aire de la cuenca del Bio Bio el uso de organismos biologicos. vol. Scientific Monographs Vol. 12, p. 331-345, Editor. Faranda F, Parra O.

### REVIEWER ACTIVITY

Marine Environmental Research, Marine Pollution Bulletin, Science of the Total Environment, Environmental Pollution, Chemosphere, Environmental Research, Journal of Hazardous Material (Elsevier); Nature Communications (Nature Portfolio); Ecotoxicology, Environmental Sciences and Pollution Research (Springer Nature); Trends in Ecology and Evolution (Cell Press).

### MEMBERSHIP OF SCIENTIFIC SOCIETIES

ECS – European Cetacean Society (from 2011-2024)  
 IWC – International Whaling Commission (from 2000)  
 SETAC - Society of Environmental Toxicology and Chemistry (from 2009)  
 SMM – Society for Marine Mammalogy (from 2011)  
 ESCPB – European Society for Comparative Physiology and Biochemistry (from 2010)  
 SIe – Società Italiana di Ecologia (from 2010)

### MAJOR COLLABORATIONS

**Collaboration - 53.4% International collaboration:** Percent of documents co-authored with researchers in other countries/regions (Scopus)

For each collaborator is reported the number of Publication (**P**) and/or Projects (**Pr**) in common

**National Collaborations**

Dr. Annalaura Mancia, Università di Ferrara (4P)  
 Dr. Giancarlo Lauriano, ISPRA (4P, 5P)  
 Dr. Michela Podestà, Museo di Storia Naturale di Milano (1P)  
 Dr. Simone Panigada, Tethys Research Institute (8P,3P)  
 Dr. Giuseppe Notarbartolo di Sciara, Tethys Research Institute (8P,3P)  
 Dr. Teresa Romeo, Stazione Zoologica Anton Dohrn (10P, 3P)  
 Dr. Massimiliano Rosso, CIMA Research Foundation (3P, 2P)  
 Prof. Salvatrice Vizzini, Università di Palermo (1P, 2P)  
 Prof. Francesco Regdi, Università Politecnica delle Marche (1P, 2Pr)  
 Prof. Sandro Mazzariol, Università di Padova (3P, 2P)  
 Dr. Giuseppe Andrea de Lucia, CNR-IAS (1P, 1Pr)  
 Dr. Carla Grattarola, Istituto Zooprofilattico Torino (1P, 2Pr)  
 Dr. Raffaella Mossotti, CNR STIIMA (1P)  
 Dr. Stefania di Vito, Legambiente (2Pr)  
 Dr. Gianfranco Scotti, ISPRA (2P, 1Pr)

**International Collaborations**

Dr. Sarah Baulch, Environmental Investigation Agency (UK) (1P)  
 Dr. Martine Berubé, University of Groningen (NL) (1P)  
 Prof. Michael Depledge, University of Exeter (UK) (5P, 2Pr)  
 Dr. Francois Galgani, IFREMER (FR) (7P, 3P)  
 Dr. Mark E. Hahn, Dr. John Stegeman, Woods Hole Oceanographic Institution (MA, USA) (2P)  
 Prof. Albert Koelmans, University of Wageningen (NL) (1P)  
 Dr. Dení Ramírez Macías, Directora Tiburón Ballena (MX) (1P, 1Pr)  
 Dr. Lorenzo Rojas-Bracho, Instituto Nacional de Ecología y Cambio Climático (MX) (4P, 2Pr)  
 Dr. Heli Routti, Norwegian Polar Institute (NW); (1P, 2Pr)  
 Prof. Jorge Urban-Ramírez, Universidad Autónoma de Baja California Sur (MX) (6P, 2Pr)  
 Dr. Catherine Tsangaris, Hellenic Centre for Marine Research (GR) (3P, 2Pr)  
 Prof. Mohamed Banni, University of Sousse (TU) (1P)  
 Salud Deudero, Instituto Español de Oceanografía (SP) (5P, 1 Pr)  
 Begona Jimenez, CSIC (SP) (8P)  
 Bianca Unger, University of Veterinary Medicine Hannover (GE) (1P)  
 Françoise Claro, Muséum National d'Histoire Naturelle, Paris (FR) (1P, 1Pr)  
 Dr Michael Moore, Dr David Livingstone, European Plymouth Marine Laboratory, Plymouth, UK (1P)  
 Prof. Celine Godard, Institute of Environmental and Human Health, Texas Tech University, Lubbock (USA) (3P, 1Pr)  
 Dr. Drasko Hrdler, Blue World Institute of Marine Research and Conservation (Croatia) (1P)  
 Prof. Lúcia Guilhermino, Centre of Marine and Environmental Research (Porto, Portugal) (1P)  
 Dr. Anne Bjørnstad, Rogaland Research, Stavanger (Norvegia)  
 Dr. Bjørn Einar Grøsvik, Institute of Marine Research, Bergen (Norvegia) (1P)  
 Dr. Augustine Arukwe, Norwegian University of Science and Technology - Trondheim (Norvegia) (1P)  
 Dr. Daniele Cagnazzi, Southern Cross University (Australia) (1P, 1Pr)  
 Dr. Roger Payne, Ocean Alliance (USA) (1P, 1Pr)  
 Prof. Juan Francisco Gavilan, Universidad de Concepcion, (Cile) (3P, 2Pr)  
 Prof. Oscar Parra, Prof. Riccardo Barra, Centro EULA, Concepcion (Cile) (3P, 2Pr)  
 Prof. H. Castello, Museum of Natural Science, Buenos Aires, (Argentina) (1P, 1Pr)  
 Dr. Lee Shugart, Oak Ridge National Laboratory, USA (2P)  
 Dr. S. Tanabe, Ehime University, Japan  
 Prof. F. De Matteis, Prof. C.K. Lim, Toxicology Unit, MRC Laboratories, London UK (1P)  
 Dr. Susan Bengtson-Nash, Environmental Futures Research Institute (EFRI), Griffith University, Nathan (Australia) (1P)  
 Prof. Alex Aguilar, Prof. Asuncion Borrell, Departamento de Biología Animal, Universitat de Barcelona, Barcelona (Spagna) (1P)  
 Prof. Antonio Jesús Fernández Rodríguez, Universidad de Las Palmas de Gran Canaria, Las Palmas (Spagna) (1P)  
 Dr. Tatjana Hema, Dr. Gaetano Leone UNEP/MAP, Athen (Grece) (1P)  
 Dr. Deni Ramirez, Tiburón Ballena La paz (México) (1P)  
 Greg Donovan, Caterina Fortuna, IWC (UK) (2P)  
 Stefano Papazian, National Facility for Exposomics at SciLifeLab (Stockholm)  
 Daniel

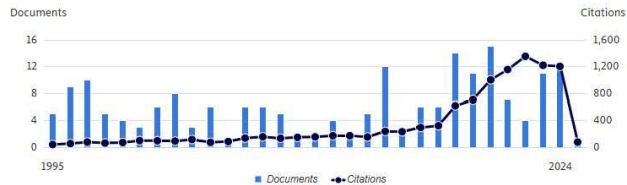
TRAK RECORD LAST 10 YEARS

PUBLICATION INDEXES  
(SCOPUS)

- NUMBER OF PUBLICATIONS: **224**
- TOTAL NUMBER OF CITATIONS: **10,776**
- H-INDEX: **48**
- <https://www.scopus.com/redirect.uri?url=https://orcid.org/0000-0003-0836-4020&authorid=57211159872&origin=AuthorProfile&orcid=0000-0003-0836-4020&category=orcidLink>
- **ExpertScape 2022:** Top-rated Expert in Ocean and Sea: 2nd Italy; 21st EU, 40th Worldwide

**Collaboration - 53.4% International collaboration:** Percent of documents co-authored with researchers in other countries/regions  
**Documents in top citation percentiles - 71.6% (63 documents):** Percent of documents in the top 25% most cited documents worldwide  
**Documents in top 25% journals - 89.9% (71 documents):** Percent of documents in the top 25% journals by CiteScore

Document & citation trends



Most contributed Topics 2019–2023

- Microplastics; Water Pollutant; Environmental Monitoring**  
21 documents
- Marine Pollution; Water Pollutant; Environmental Monitoring**  
12 documents
- Bioaccumulation; Polychlorinated Biphenyl; Environmental Monitoring**  
6 documents

Sustainable Development Goals

Goal 2: Zero hunger	2 documents	Goal 11: Sustainable cities and communities	5 documents
Goal 3: Good health and well-being	18 documents	Goal 12: Responsible consumption and production	5 documents
Goal 4: Quality education	1 document	Goal 13: Climate action	3 documents
Goal 6: Clean water and sanitation	10 documents	Goal 14: Life below water	145 documents
Goal 7: Affordable and clean energy	1 document	Goal 15: Life on land	25 documents
Goal 8: Decent work and economic growth	5 documents	Goal 17: Partnership for the goals	11 documents
Goal 9: Industry, innovation and infrastructure	6 documents		

Main Publications

- Galli, M., [...] Galgani, F., **Fossi, M.C.** Paraffin waxes in the North-Western Mediterranean Sea: A comprehensive assessment in the Pelagos Sanctuary, a Specially Protected Area of Mediterranean Importance. *Journal of Hazardous Materials*, **2024**, 467, 133677. Cit. 0, **IF 12.2**
- Galli, M., [...] Galgani, F., **Fossi, M.C.** Oceanographic and anthropogenic variables driving marine litter distribution in Mediterranean protected areas: Extensive field data supported by forecasting modelling. *Science of the Total Environment*, **2023**, 903, 166266. Cit. 12, **IF 8.2**
- Galli, M., [...] Cincinelli, A., **Fossi, M.C.** Microplastic occurrence and phthalate ester levels in neuston samples and skin biopsies of filter-feeding megafauna from La Paz Bay (Mexico). *Marine Pollution Bulletin*, **2023**, 192, 115086. Cit. 10, **IF 5.3**
- Pedà, C., Romeo, T., [...] **Fossi, M.C.** Integrated biomarker responses in European seabass *Dicentrarchus labrax* (Linnaeus, 1758) chronically exposed to PVC microplastics. *Journal of Hazardous Materials*, **2022**, 438, 129488. Cit. 17, **IF 12.2**
- Fossi, M.C.**, Vlachogianni, T., [...] Leone, G. Assessing and mitigating the harmful effects of plastic pollution: the collective multi-stakeholder driven Euro-Mediterranean response. *Ocean and Coastal Management*, **2020**, 184, 105005. Cit. 46, **IF 4.8**
- Panti, C., [...] Simmonds, M.P., **Fossi, M.C.** Marine litter: One of the major threats for marine mammals. Outcomes from the European Cetacean Society workshop. *Environmental Pollution*, **2019**, 247, 72–79. Cit. 110, **IF 7.6**



7. **Fossi, M.C.**, [...] Bani, M. Bioindicators for monitoring marine litter ingestion and its impacts on Mediterranean biodiversity. *Environmental Pollution*, **2018**, 237, 1023–1040. Cit. 279, **IF 7.6**
8. **Fossi, M.C.**, [...] Ramírez-Macías, D. Are whale sharks exposed to persistent organic pollutants and plastic pollution in the Gulf of California (Mexico)? First ecotoxicological investigation using skin biopsies. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2017**, 199, 48–58. Cit. 91, **IF 3.9**
9. **Fossi, M.C.**, [...] Lapucci, C. Plastic debris occurrence, convergence areas and fin whales feeding ground in the Mediterranean marine protected area Pelagos Sanctuary: A modeling approach. *Frontiers in Marine Science*, **2017**, 4, 167. Cit. 168, **IF 5.1**
10. **Fossi, M.C.**, [...] Panti, C. Fin whales and microplastics: The Mediterranean Sea and the Sea of Cortez scenarios. *Environmental Pollution*, **2016**, 209, pp. 68–78. Cit. 316, **IF 7.6**
11. Romeo, T., [...] **Fossi, M.C.** First evidence of presence of plastic debris in the stomach of large pelagic fish in the Mediterranean Sea. *Marine Pollution Bulletin*, **2015**, 95(1), pp. 358–361. Cit. 475, **IF 5.3**

### Main Invited Speaker

More details are reported in the section Organization of Scientific Meeting

1. **2017:** Invited Lecture to Harvard University (USA) for the presentation of the movie "A Plastic Ocean" <https://plasticoceans.org/harvard-university-screening/>
2. **2018** Environmental Endocrine Disruptors. Les Diablerets, Vaud (FR), Switzerland Gordon Research Conference. **Invited Speaker.** <https://www.grc.org/environmental-endocrine-disruptors-conference/2018/>
3. SETAC Rome 2018 - Special Session: Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea, Chair. **Invited Speaker.**
4. Micro 2018, Lanzarote, Spain, 2018. **Key Note Speaker.** <https://micro2018.sciencesconf.org/resource/page/id/6.html>
5. ECS 2018 – La Spezia (Italy). **Key Note Speaker.** [https://www.europeancetaceansociety.eu/sites/default/files/27253%20ABSTRACT%20BOOK\\_nuovo\\_LR.pdf](https://www.europeancetaceansociety.eu/sites/default/files/27253%20ABSTRACT%20BOOK_nuovo_LR.pdf)
6. MARLICE 2019 International Forum on Marine Litter and Circular Economy, Seville, Spain, April 8-10, 2019. **Invited Speaker.** [https://aebam.org/marlice2019/marlice2019.aebam.org/speakers\\_798745197.html](https://aebam.org/marlice2019/marlice2019.aebam.org/speakers_798745197.html)
7. MicroMED – International Conference, Capri (Italy), September 15-18, 2019. Chair. **Invited Speaker.**
8. MicroMED – International Conference, Naples (Italy), September, 2022. Chair. **Invited Speaker.** <https://www.microplasticpollution.it/>
9. MARLICE 2022 International Forum on Marine Litter and Circular Economy, Seville, Spain, 2022. Chair. **Invited Speaker.**
10. 2023 United Nations Climate Change Conference DUBAI. **Invited Speaker.** <https://ufmsecretariat.org/mediterraneanpavilion/>
11. MARLICE 2024 International Forum on Marine Litter and Circular Economy, Member of the Organizing Committee. **Invited Speaker** (<https://aebam.org/marlice-international-forum-on-marine-litter-and-circular-economy/marlice-2024/>)
12. PLASTMed, 1st edition CRIMAC International Summer School, October 22nd-25th, 2024 Invited Speaker [https://www.szn.it/images/Summer\\_Schools/2024/CRIMAC\\_SummerSchool\\_PlastMed.pdf](https://www.szn.it/images/Summer_Schools/2024/CRIMAC_SummerSchool_PlastMed.pdf)

### Major Projects and Founding

More details are reported in the section Current Position

- **2018-2023:** Scientific coordinator and Unity UNISI PI of the "Plastic Busters: MPAs - Plastic Busters: preserving biodiversity from plastics in Med Marine Protected Areas" financed by MED-Interreg <https://plasticbustersmpas.interreg-med.eu/>
- **2019-2020:** Scientific coordinator (PI) of the FEAMP project AdriCleanFish: monitoring, collection and assessment of marine litter on fish species and sustainable fisheries. <https://www.unive.it/pag/40898>
- **2020-2024:** Local coordinator (PI UNISI) of Exploring the fate of Mediterranean microplastics: from distribution pathways to biological effects (EMME) PRIN 2017. Funded by MIUR.
- **2021-2023:** Scientific coordinator (PI) of the "Plastic Busters CAP- Fostering knowledge transfer to tackle marine litter in the Med by integrating EbA into ICZM". Financed by EU ENI-CBC. <https://www.enicbcmed.eu/projects/plastic-busters-cap>.
- **2022 until now:** UNISI PI and WP3 leader of the PNRR National project " NBFC- SPOKE 2 – Action 1.2. ZERO POLLUTION.
- **From 2024:** Scientific coordinator and PI of the E-TRACE project supported by OGS (SPOKE4)

### Member of the Organizing Committee of International Conferences

More details are reported in the section Organization of Scientific Meeting

- Micro 2016, Lanzarote, Spain, May 2016. **Member of the Organizing Committee.** <https://micro2016.sciencesconf.org/resource/page/id/1.html>
- ECS 2018 – La Spezia (Italy). **Member of the Organizing Committee.** <https://www.europeancetaceansociety.eu/32nd-annual-conference-italy>
- SETAC Rome 2018 - Member of the Organizing Committee. Special Session: Harmful Effects of Plastic Litter and Mitigation Strategies in the Mediterranean Sea, Chair.
- Micro 2018, Lanzarote, Spain, 2018. Member of the Organizing Committee. Chair.
- MARLICE 2019 International Forum on Marine Litter and Circular Economy, Seville, Spain, April 8-10, 2019. Member of the Organizing Committee.
- Plastic Busters Technical WP4 Planning Workshop, Milazzo (Italy), May 9, 2019. Lead Organizer.
- MicroMED – International Conference, Capri (Italy), September 15-18, 2019. Member of the Organizing Committee. Chair.
- MARLICE 2022 International Forum on Marine Litter and Circular Economy, Seville, Spain, 2022. **Member of the Organizing Committee**
- 31st Congress of the Italian Society of Ecology (SItE). Ecosystem Adaptations to the Pressures of the Anthropocene. Siena, September 13-15, 2022. **Organizing and Scientific Committee, Conference Chair.** <https://www.congresso.ecologia.it/xxxi-congress-of-the-italian-society-of-ecology/>
- Micro 2022, Lanzarote, Spain, 2022. Member of the Organizing Committee. Chair.
- MARLICE 2024 International Forum on Marine Litter and Circular Economy, Member of the Organizing Committee. **Organizing and Scientific Committee** (<https://aebam.org/marlice-international-forum-on-marine-litter-and-circular-economy/marlice-2024/>)
- Micro 2024, Lanzarote, Spain, 2024. Member of the Organizing Committee. Chair.

### International and National Awards

- International Award “Mimosa d’oro” Parma (2015).
- Prize “7 Green awards” Milano (2016).
- Prize “Pelagos” Legambiente (2019).
- Price Rotary Plastic Busters Human Value. (2018)
- Elected EU Ordinary Heroes [https://europa.eu/euprotects/italy\\_en](https://europa.eu/euprotects/italy_en) (2020).
- “Ritratto di Donne” – Italiana - Ministry of Foreign Affairs- On the occasion of the Day of Italian Research across the World, the Ministry of Foreign Affairs and International Cooperation presents the Italian Top scientists. (<https://www.youtube.com/watch?v=UIt-CYsmSpM>). (2022).
- International Award Motomundi 2023 (<https://www.motomundi.it/premio/>). The award was given to Maria Cristina Fossi, an internationally renowned scientist who provided the first evidence in the world of the effects of microplastics on whales.
- Marlice Price 2024 - In 2024, the award was conferred to Maria Cristina Fossi for her unwavering commitment to the protection of marine biodiversity from the impact of plastics. <https://x.com/PlasticBusters/status/1793601664093663589?mx=2>.
- She was selected (2024-25) by the Ministry of Foreign Affairs as one of the 10 Italian researchers to represent Italy worldwide for the SWIT (Science Women of Italy) project. It has been presented in Italian embassies around the world. The goal of the exhibition (is to promote awareness of the achievements in STEM – an acronym for Science, Technology, Engineering, and Mathematics – and the Italian women who have been protagonists in these fields, exploring the socio-environmental, cultural, and historical aspects while capturing the transformations that have occurred over time.

### DESCRIPTION OF MAIN RESEARCH RESULTS

Maria Cristina Fossi is a renowned ecologist and ecotoxicologist, globally recognized for her innovative and groundbreaking contributions to marine ecotoxicology. Over the past thirty years, she has developed advanced methodologies to study the impact of toxic substances on marine ecosystems, focusing particularly on the effects of environmental contaminants on marine biota. She is Full Professor of Ecology and Ecotoxicology at the University of Siena (UNISI) and was since 2000 Scientific Director of the Biomarker Laboratory -Plastic Busters of Siena University (<https://plasticbusters.unisi.it/>). She has conducted essential research to understand how pollution from Legacy Contaminants, heavy metals, pesticides, microplastics and Emerging Chemicals affects the health of marine organisms (particularly endangered species) and food chains, leading to greater awareness and solutions to protect the oceans and marine biodiversity. Her work has significantly contributed to changing the way chemical impacts on marine environments are studied



and monitored. Her scientific career has been marked by a series of significant breakthroughs both in terms of the topic addressed and the methodologies used, which were often unconventional.

The key milestones in her career are listed below:

- In the early 1990s, by collaborating with some of the world's leading researchers on this topic (Prof. M. Depledge, Prof. L. Shugart, Prof. M. Moore), she made a fundamental contribution to the development of the biomarker approach in terrestrial and marine ecotoxicology. <https://doi.org/10.1007/bf00117081>
- At the end of the 1990s, she developed, in a complete break from the ecotoxicological world, for the first time innovative Non-Destructive Biomarker techniques for studying endangered species in a non-lethal way, publishing the first monograph in the world on this topic (<https://doi.org/10.1201/9780367813703>). She developed innovative diagnostic tools for ecotoxicological assessment of threatened species (marine mammals, birds, reptiles) bringing to the establishment of methods (non-destructive biomarker approach) currently acknowledged as the golden standard at the international level.
- Thanks to her work on skin biopsies of marine mammals, she is a world reference for the assessment of ecotoxicological risk in cetaceans. She made a fundamental contribution within the IWC, since 2000 (International Whaling Commission) in fighting against the killing of whales for scientific purposes (doi: 10.1016/S0141-1136(00)00127-6.).
- In 2001 she published the first papers on effects of Endocrine Disruptors in Med marine top predators. ([https://doi.org/10.1016/S0141-1136\(01\)00107-6](https://doi.org/10.1016/S0141-1136(01)00107-6))
- In 2012 she provided the first evidence worldwide on the effects of microplastics on baleen whales, investigating the presence and effect of microplastics and plasticizers in Mediterranean ecosystems. (<https://doi.org/10.1016/j.marpolbul.2012.08.013>)
- Since 2013 she pioneered the groundbreaking idea of uniting the northern and southern shores of the Mediterranean in the fight against marine litter (<https://plasticbusters.unisi.it/>). She has been (from 2013 until now) the scientific coordinator of the "Plastic Busters"(PB) initiative devoted to monitoring and mitigating the impact of Marine litter in the Mediterranean Sea. The Plastic Buster Project was elected as Flagship Project of Med-SDSN (<http://www.sdsn-mediterranean.unisi.it>) from 2013 and from 2016 Union for Mediterranean (UfM)([ufmsecretariat.org](http://ufmsecretariat.org)).
- Since 2022, she has been making an innovative contribution to the development of diagnostic methodologies to detect the effects of emerging contaminants and multiple stressors on iconic marine species (cetaceans, birds, and turtles).

## COMPLETE LIST OF PUBLICATIONS

Giani, D., Baini, M., Panti, C., Galli, M., Caliani, I., Concato, M., Casini, S., & **Fossi, M. C.** (2025). A multi-compartment monitoring approach to assess the impact of marine litter in a Mediterranean coastal area. *Marine Pollution Bulletin*, 211. Scopus. <https://doi.org/10.1016/j.marpolbul.2024.117466>

Baini, M., **Fossi, M. C.**, Innocenti, F. D., Chinaglia, S., Tosin, M., Pecchiari, M., & Panti, C. (2024). Degradation of plastic materials in the marine environment: A mussel farm as a case study for the development of alternative mussel nets. *Journal of Cleaner Production*, 450. Scopus. <https://doi.org/10.1016/j.jclepro.2024.141825>

Dettoto, C., Maccantelli, A., Barbieri, M. V., Baini, M., Fernández-Arribas, J., Panti, C., Giani, D., Galli, M., Eljarrat, E., & **Fossi, M. C.** (2024). Plasticizers levels in four fish species from the Ligurian Sea and Central Adriatic Sea (Mediterranean Sea) and potential risk for human consumption. *Science of the Total Environment*, 954. Scopus. <https://doi.org/10.1016/j.scitotenv.2024.176442>

Galli, M., Baini, M., Panti, C., Tepsich, P., Rosso, M., Giannini, F., Galgani, F., & **Fossi, M. C.** (2024). Paraffin waxes in the North-Western Mediterranean Sea: A comprehensive assessment in the Pelagos Sanctuary, a Specially Protected Area of Mediterranean Importance. *Journal of Hazardous Materials*, 467. Scopus. <https://doi.org/10.1016/j.jhazmat.2024.133677>

Girones, L., Adaro, M. E., Pozo, K., Baini, M., Panti, C., **Fossi, M. C.**, Marcovecchio, J. E., Ronda, A. C., & Arias, A. H. (2024). Spatial distribution and characteristics of plastic pollution in the salt marshes of Bahía Blanca Estuary, Argentina. *Science of the Total Environment*, 912. Scopus. <https://doi.org/10.1016/j.scitotenv.2023.169199>

Limonta, G., Panti, C., **Fossi, M. C.**, Nardi, F., & Baini, M. (2024). Exposure to virgin and marine incubated microparticles of biodegradable and conventional polymers modulates the hepatopancreas transcriptome of *Mytilus galloprovincialis*. *Journal of Hazardous Materials*, 468. Scopus. <https://doi.org/10.1016/j.jhazmat.2024.133819>

Marangi, M., Papini, R. A., Furi, G., Gordigiani, L., Di Noi, A., **Fossi, M. C.**, Casini, S., & Caliani, I. (2024). Parasitological investigation and potential effects of parasitism on hematological, genotoxic and immune parameters in free ranging sea turtles rescued along the Southern Adriatic coast (Eastern Mediterranean Sea). *Marine Pollution Bulletin*, 209. Scopus. <https://doi.org/10.1016/j.marpolbul.2024.117274>



- Morão, I. F. C., Simões, T., Casado, R. B., Vieira, S., Ferreira-Airaud, B., Caliani, I., Di Noi, A., Casini, S., **Fossi, M. C.**, Lemos, M. F. L., & Novais, S. C. (2024). Metal accumulation in female green sea turtles (*Chelonia mydas*) from Eastern Atlantic affects their egg quality with potential implications for embryonic development. *Science of the Total Environment*, 931. Scopus. <https://doi.org/10.1016/j.scitotenv.2024.172710>
- Patsiou, D., Digka, N., Galli, M., Bains, M., **Fossi, M. C.**, & Tsangaris, C. (2024). Assessment of the impact of microplastic ingestion in striped red mullets from an Eastern Mediterranean coastal area (Zakynthos Island, Ionian Sea). *Marine Environmental Research*, 196. Scopus. <https://doi.org/10.1016/j.marenvres.2024.106438>
- Perna, M., Brandini, C., Bendoni, M., Lapucci, C., Galgani, F., Panigada, S., Cañadas, A., Panti, C., & **Fossi, M. C.** (2024). Evaluation of the exposure of the Mediterranean biodiversity to marine litter: The ASI – plastic busters MPAs projects connection. *Frontiers in Marine Science*, 11. Scopus. <https://doi.org/10.3389/fmars.2024.1352059>
- Santini, S., Bains, M., Martellini, T., Bissoli, M., Galli, M., Concato, M., **Fossi, M. C.**, & Cincinelli, A. (2024). Novel ultrasound assisted extraction and d-SPE clean-up for the analysis of multiple legacy and emerging organic contaminants in edible fish. *Food Chemistry*, 443. Scopus. <https://doi.org/10.1016/j.foodchem.2024.138582>
- Savoca, M. S., Abreo, N. A., Arias, A. H., Baes, L., Bains, M., Bergami, E., Brander, S., Canals, M., Choy, C. A., Corsi, I., De Witte, B., Domit, C., Dudas, S., Duncan, E. M., Fernández, C. E., **Fossi, M. C.**, Garcés-Ordoñez, O., Godley, B. J., González-Paredes, D., ... Santos, R. G. (2024). Monitoring plastic pollution using bioindicators: A global review and recommendations for marine environments. *Environmental Science: Advances*. Scopus. <https://doi.org/10.1039/d4va00174e>
- Schweizer, S., Halder, K., Schäfer, A., Hauns, J., Marsili, L., Mazzarid, S., **Fossi, M. C.**, Muñoz-Arnanz, J., Jiménez, B., & Vetter, W. (2024). High Amounts of Halogenated Natural Products in Sperm Whales (*Physeter macrocephalus*) from Two Italian Regions in the Mediterranean Sea. *Environment and Health*, 2(4), 233–242. Scopus. <https://doi.org/10.1021/envhealth.3c00182>
- Caliani, I., Cannicci, S., Pretti, C., Baratti, M., Contini, G., Vitale, M., Casini, S., **Fossi, M. C.**, Iannucci, A., & Fratini, S. (2023). A multidisciplinary integrated approach using *Pachygrapsus marmoratus* to assess the impact of port activities on mediterranean marine protected areas. *Chemosphere*, 312. Scopus. <https://doi.org/10.1016/j.chemosphere.2022.137129>
- Concato, M., Panti, C., Bains, M., Galli, M., Giani, D., & **Fossi, M. C.** (2023). Detection of anthropogenic fibres in marine organisms: Knowledge gaps and methodological issues. *Marine Pollution Bulletin*, 191. Scopus. <https://doi.org/10.1016/j.marpolbul.2023.114949>
- Galli, M., Bains, M., Panti, C., Giani, D., Caliani, I., Campani, T., Rosso, M., Tepsich, P., Levati, V., Laface, F., Romeo, T., Scotti, G., Galgani, F., & **Fossi, M. C.** (2023). Oceanographic and anthropogenic variables driving marine litter distribution in Mediterranean protected areas: Extensive field data supported by forecasting modelling. *Science of the Total Environment*, 903. Scopus. <https://doi.org/10.1016/j.scitotenv.2023.166266>
- Galli, M., Olavarrieta Garcia, T., Bains, M., Urbán R, J., Ramírez-Macias, D., Viloria-Gómora, L., Panti, C., Martellini, T., Cincinelli, A., & **Fossi, M. C.** (2023). Microplastic occurrence and phthalate ester levels in neuston samples and skin biopsies of filter-feeding megafauna from La Paz Bay (Mexico). *Marine Pollution Bulletin*, 192. Scopus. <https://doi.org/10.1016/j.marpolbul.2023.115086>
- Giani, D., Andolina, C., Bains, M., Panti, C., Sciandra, M., Vizzini, S., & **Fossi, M. C.** (2023). Trophic niche influences ingestion of micro- and mesoplastics in pelagic and demersal fish from the Western Mediterranean Sea. *Environmental Pollution*, 328. Scopus. <https://doi.org/10.1016/j.envpol.2023.121632>
- Hernandez-Milian, G., Tsangaris, C., Anestis, A., **Fossi, M. C.**, Bains, M., Caliani, I., Panti, C., Bundone, L., & Panou, A. (2023). Monk seal faeces as a non-invasive technique to monitor the incidence of ingested microplastics and potential presence of plastic additives. *Marine Pollution Bulletin*, 193. Scopus. <https://doi.org/10.1016/j.marpolbul.2023.115227>
- Mancia, A., Abelli, L., Palladino, G., Candela, M., Lucon-Xiccato, T., Bertolucci, C., **Fossi, M. C.**, Bains, M., & Panti, C. (2023). Sorbed environmental contaminants increase the harmful effects of microplastics in adult zebrafish, *Danio rerio*. *Aquatic Toxicology*, 259. Scopus. <https://doi.org/10.1016/j.aquatox.2023.106544>
- Pasanisi, E., Galasso, G., Panti, C., Bains, M., Galli, M., Giani, D., Limonta, G., Tepsich, P., Delaney, E., **Fossi, M. C.**, & Pojana, G. (2023). Monitoring the composition, sources and spatial distribution of seafloor litter in the Adriatic Sea (Mediterranean Sea) through Fishing for Litter initiatives. *Environmental Science and Pollution Research*, 30(39), 90858–90874. Scopus. <https://doi.org/10.1007/s11356-023-28557-y>
- Provenza, F., Pastorino, P., Anselmi, S., Persiano, M. L., Scirocco, T., De Rinaldis, G., **Fossi, M. C.**, Panti, C., Renzi, M., & Specchiulli, A. (2023). Chemical pollution and ecotoxicological effects of high-density polyethylene microplastics in *Mytilus galloprovincialis* from two Italian lagoon ecosystems. *Environmental Toxicology and Pharmacology*, 98. Scopus. <https://doi.org/10.1016/j.etap.2023.104075>

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Curriculum vitae - Mark Peter SIMMONDS

Mark Peter Simmonds OBE

Marine Biologist and Environmental Scientist

Career summary:

Research focuses – conservation of and threats to marine wildlife including relating to chemical pollution, noise pollution, climate change and incidental and deliberate takes. Peer-reviewed publications include keystone papers on conservation policy, marine noise, studies on contaminant levels in marine mammals and, recently, animal culture and welfare science.

More than thirty years of contributing to the work of international agreements (often as a member of national delegations) and in particular the UN Convention for the Conservation of Migratory Species of Wild Animals (CMS), the International Whaling Commission (IWC) and the UN Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).

CoP-Appointed Councilor for Marine Pollution, CMS Science Council (from 2020)  
Member, Scientific Committee of the International Whaling Commission (from 1994-date)  
Visiting Research Fellow, University of Bristol, School of Veterinary Sciences (2015-date)  
Chartered Biologist, Royal Society of Biology  
Member, Royal Society of Biology and Institution of Environmental Sciences  
Chair, UK’s Marine Animal Rescue Coalition  
Visiting Lecturer, Marine Mammal MSc, University of St Andrews  
Director of Science, OceanCare 2021-date  
Convener and/or chair of a number of international scientific workshops concerning threats to marine wildlife.

Author/co-author and editor/co-editor of six books and some 200 scientific papers and articles, including contributions in *Nature* and *Science* (see examples below).

Officer of the Order of the British Empire (OBE) appointed in 2013 in recognition of contributions to environmental sciences and marine mammal conservation.

Career History		
Academic and other roles and Appointments	Details	Dates
Visiting Research Fellow, University of Bristol (2015-date) Project Supervisor and External tutor for MSc students (Global Wildlife Health and Conservation), University of Bristol, School of Veterinary Science (from 2017); Visiting Lecturer for MSc Students St. Andrews University, Scotland (from 2016)	Focuses during this period have included: <ul style="list-style-type: none"><li>Matters related to the Convention for the conservation of Migratory Species and its daughter agreements (ASCOBANS and ACCOBAMS), including managing review of Red Sea marine mammal statuses and issues, facilitating CMS ‘animal cultures’; workshops and assisting other work streams, including related to ‘in-water interactions’;</li></ul>	2012-date



<p><b>Chair</b> – UK's Marine Animal Rescue Coalition (1994-date)  <b>Council Member</b> – European Cetacean Society (2015-2018).  <b>Acting IWC Bycatch Mitigation Coordinator</b> (2016-2018)</p> <p><b>Senior Marine Scientist, Humane Society International</b> (2012-September, 2021)</p> <p><b>Director of Science, OceanCare</b> (October, 2021-date)</p>	<ul style="list-style-type: none"> <li>Assisting in the development of the IWC's work on indirect threats, including marine debris and other pollution and bycatch (including helping to instigate the IWC's bycatch and strandings initiatives);</li> <li>Promulgation of best practice in marine mammal rescue;</li> <li>Development of conservation and welfare policy; and</li> <li>Monitoring and responding to commercial whaling and other threats to marine mammals.</li> </ul>	
<p><b>External lecturer</b> <i>Animal Behaviour and Welfare Degree, University of Bristol Veterinary School (2007-date) and to MSc Marine Mammal Science, University College of Wales (2002-6): delivering core unit on threats to marine mammals, policy responses and politics).</i></p> <p><b>International Director of Science, Whale and Dolphin Conservation Society (WDCS)</b></p>	<p>Focuses in this period:</p> <ul style="list-style-type: none"> <li>- <b>marine conservation policy development</b> with particular regard to climate change, chemical and noise pollution, marine debris, fisheries interactions and other indirect threats to cetacean populations, and investigations into related fields of science;</li> <li>- development of conservation policy within the auspices of IWC, CITES and CMS conventions and also CMS daughter regional agreements;</li> <li>- oversight of <b>field studies</b> into cetacean biology in the Moray Firth, Scotland, and Cardigan Bay, Wales;</li> <li>- co-ordinating the work of WDCS and other NGOs with other governmental and non-governmental agencies and government bodies;</li> <li>- research leading to publication of a series of scientific papers and reports on threats to cetaceans (please see list appended below).</li> <li>- contributions to the establishment of two new aquatic mammal CMS Memoranda of Understanding (i.e. Pacific Cetaceans and West African Aquatic Mammals);</li> <li>- contributions to increasing the protection of the Black Sea Bottlenose Dolphin and West African Manatee by helping to achieve their listings on the appendices of CITES (respectively 2000 and 2007); and also</li> <li>- work on sperm, fin and killer whale and other cetaceans to achieve enhanced protection under CMS in 2002 and Ganges river dolphin and others in 2009.</li> </ul>	1999-2012
<p><b>Visiting Research Fellow, University of Greenwich 1993-2000</b></p> <p><b>Head of Special Projects, WDCS</b></p>	<p>Project management - investigations into the effects of <b>chemical contaminants</b> on cetaceans and their consumers, mass mortality events, the results of exposure to <b>marine noise pollution</b> and field studies and development of conservation policy in the UK.</p>	1993-1999
	<p>Building <b>research</b> in the sphere of <b>marine animal conservation</b> including supervising postgraduate</p>	1993

<b>Reader in Wildlife Conservation</b> , University of Greenwich	projects in seal and cetacean conservation, bottlenose dolphins in Cornwall, marine debris and marine protected areas.	
<b>Senior Lecturer in Environmental Sciences</b> , University of Greenwich	<b>Teaching</b> expertise – including <b>marine ecology and conservation</b> , EU law and process, urban wildlife, conservation delivery and philosophy. Environmental Sciences degree rated excellent by QAA. - Contributed to the drafting of the ASCOBANS and ACCOBAMS agreements and their successful adoption.	1991-1993
<b>Coordinator Greenpeace Ecotoxicology Project and Research Associate</b> at Queen Mary & Westfield College (QMWC), University of London	Scientific adviser on threats to marine species including epizootics and pollution; strengthening the interface between Greenpeace's 'toxics' and 'marine ecology' programmes.	1988-1991
<b>Project Manager/Research Consultant</b> at Centre for Research in Aquatic Biology (CRAB) at QMWC, University of London	Contractual research – including work on <b>marine anti-fouling coatings</b> ; research for the <b>Nature Conservancy Council</b> ; and <b>Environmental Impact Assessments</b> for the Canary Wharf development in London and potential expansion of Fawley Power Station in Hampshire.	1984-1988
<b>Postgraduate Research Student and Demonstrator</b> , Westfield College, University of London	Research – aquatic vertebrate speciation, physiology, <b>introduced species, herpetology</b> . Demonstrating – including marine vertebrate & invertebrate taxonomy. Field research in Africa.	1982-1984
<b>Undergraduate Student BSc (Hons)</b> , Zoology, University of Bristol	Honours project: fine dissection of the vestibular apparatus of the harbour porpoise, <i>Phocoena phocoena</i>	1980

### Other roles and achievements

- **Convener** of eight International Whaling Commission (IWC) workshops:
  - Convener of climate change workshop (2021)
  - Convener and **Chair** third marine debris workshop (2019)
  - Convener and **Chair** of second IWC marine debris workshop (2014).
  - Convener and **Chair** of first IWC workshop on marine debris (2013): ‘Marine Renewables and also **Chair** (2012).
  - ‘Climate Change and Small Cetaceans’ and also **Co-Chair** of this workshop (2010)
  - ‘Climate Change and Whales’ (2009); and
  - ‘Habitat Degradation’ (2004)
 Facilitator CMS Workshop on Animal Culture, 2018
- **Acting Bycatch Mitigation Coordinator for the International Whaling Commission**: 2016-January 2018
- **Member of the Scientific Committee of the International Whaling Commission**: 1994-date
- **Member of UK Delegation to IWC**: Scientific Committee: 2002-date; Commission 2002-7, 2009, 2010,

2012, 2014, 2016, 2022, 2024. **Member of Belgian Delegation to IWC** 2018

- **Chair, Whale Working Group of Wildlife and Countryside Link** (UK Umbrella Group for NGOs; elected for second term) 2010- 2012; Vice Chair 2012-2017, Chair 2018-2021
- **Advisor to the Worldwide Fund for Nature International (WWF)** (cetacean programme) – 2016-date
- **Advisor to the BBC Wildlife Fund** – helping to select projects for funding – 2010-2011
- **Member of the Institution of Environmental Science** – 1992 –date
- **Joint Coordinator of the Emergency Task Force** UNEP Marine Mammal Action Plan 1991-1994
- **Joint Convener** of the First and Second meetings of the Scientific Advisory Committee of UNEP's Marine Mammal Action Plan (1991, 1993)
- **Trustee, Earthkind** (Environmental Charity) 1994
- **Member Scientific Advisory Committee** of MEDDASSETT (The Mediterranean Association to Save the Sea Turtle) 1994-1996
- **Chartered Biologist and Member of the Royal Society of Biology** 1988 – date.
- **Churchill Fellow** – awarded Winston Churchill Travelling Fellowship 1983
- **Scientific Fellow** - Zoological Society of London 1983- 2018
- **Trustee** – Bardsey Bird and Field Observatory 2017-date

### Other memberships

The Society of Authors and Artists, Royal Society for the Prevention of Cruelty to Animals, Royal Society for the Protection of Birds, National Trust, Mammal Society, Avon Wildlife Trust and others.

### Editing and refereeing

Including *Nature*, *Journal of Marine Biological Association*, *Journal of Environmental Management*, *Frontiers* family of journals, *Oryx*, etc.

### Selection of publications

Author or joint author/editor of over 200 publications, including *six books* (highlighted in *blue* below). A fuller list is provided on Researchgate here: [https://www.researchgate.net/profile/Mark\\_Simmonds](https://www.researchgate.net/profile/Mark_Simmonds)

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## 2019

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## 2018

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## 2016

M.P. Simmonds 2016. Impacts and effects of ocean warming on marine mammals. In: Laffoley, D., & Baxter, J.M. (editors). *Explaining ocean warming: Causes, scale, effects and consequences*. Gland, Switzerland: IUCN. pp. 303-320

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## 2015

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### 2013

M N DeBoer, J. Clark, M.F. Lepold, M.P. Simmonds and P.J.H. Reijnders 2013 Photo-Identification Methods Reveal Seasonal and Long-Term Site-Fidelity of Risso's Dolphins (*Grampus griseus*) in Shallow Waters (Cardigan Bay, Wales) *Open Journal of Marine Science* 01/2013; 3:65

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### 2011



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## 2007

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**In addition, joint or sole author on some 200 papers submitted to the Scientific Committee of the IWC.**

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**Curriculum vitae - Greg DONOVAN**

Name	Gregory Paul Donovan
DoB	16 November 1956
Nationality	Irish
Domicile	UK
<i>Current positions and posts held</i>	<ul style="list-style-type: none"> <li>• Independent researcher (since retirement from IWC)</li> <li>• Member of the Scientific Committee of the International Whaling Commission (<a href="http://www.iwc.int">www.iwc.int</a>) - convenor: sub-committee on Implementation Simulation Trials)</li> <li>• IWC Scientific Committee nominated Member of the Scientific Committee of the Agreement of the Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and contiguous Atlantic area (ACCOBAMS) – under the Convention for Migratory Species (<a href="http://www.accobams.org">www.accobams.org</a>) – and on a number of occasions over the last decades</li> <li>• Developer and expert on Conservation Management Plans for IWC and ACCOBAMS</li> <li>• Member of Steering Group advising the Spanish Government on killer whale interactions with vessels</li> <li>• Advisor for the Irish Government's ObSERVE and I and II survey programmes (<a href="https://www.mare.i.e/project/observe-ii/">https://www.mare.i.e/project/observe-ii/</a>)</li> <li>• Advisor to the Irish Government on the updating of guidelines on marine mammals and noise</li> <li>• Advisor to the Irish Government of IWC issues</li> <li>• Member of the IUCN Cetacean Specials Group</li> <li>• Member of CIRVA – the advisory body to the Government of Mexico on the recovery of the vaquita</li> <li>• Senior scientific advisor to Seashore Ambiental, a Spanish Charity/NGO working on strandings and bycatch of marine megafauna including marine mammals, sea turtles and elasmobranchs</li> </ul>
<i>Previous position and posts held</i>	<p><i>International Whaling Commission (IWC)</i></p> <ul style="list-style-type: none"> <li>• 1979-1990 Senior scientist at the IWC, Cambridge UK</li> <li>• 1990- 2018: Head of Science at the IWC (retired 2019) <ul style="list-style-type: none"> <li>○ Chaired/rapporteured over 50 specialist international workshops including those on ocean basin species assessments, conservation management plans (CMPs), ship strikes, environmental effects and habitat degradation (including noise and chemical pollution), aboriginal subsistence whaling, the Arctic, whale watching, mitigation measures etc.</li> <li>○ Worked to involve stakeholders in the decision-making process including industry, indigenous peoples, local communities</li> <li>○ Presented scientific reports to member governments</li> <li>○ Attended and presented at each IWC Commission (the political and decision-making body) meeting</li> <li>○ Represented the IWC at several ACCOBAMS Meetings of Parties</li> <li>○ Worked with the then Irish Commissioner on the 'Irish Initiative' and the subsequent US-led initiatives on the 'Future of the IWC'</li> </ul> </li> </ul>

	<p><i>International Union for the Conservation of Nature (IUCN)</i></p> <ul style="list-style-type: none"> <li>• 2005-2015: Member of the IUCN Western Gray Whale Advisory Panel (WGWAP)</li> <li>• 2013-2022: Co-Chair of the IUCN WGWAP</li> <li>• 2005-2022: Chair of the IUCN WGWAP Noise Task Force/Seismic Task Force</li> <li>• 2018-19: Co-Chair of the IUCN WGWAP Cumulative Effects Task Force</li> </ul> <p><i>Convention on the Conservation of Migratory Species of Wild Animals (CMS)</i></p> <ul style="list-style-type: none"> <li>• 1992-2014: Member of the Advisory Committee of the Agreement on the Conservation of Small Cetaceans of the Baltic, North East Atlantic, Irish and North Seas (ASCOBANS) <ul style="list-style-type: none"> <li>○ Member of ASCOBANS sub-committees on chemical pollution, noise and bycatch</li> <li>○ Worked to ensure measures align with EU policy especially the Habitats Directive</li> </ul> </li> <li>• 2003-2024 Member of the Scientific Committee of ACCOBAMS <ul style="list-style-type: none"> <li>○ Member of sub-committees on chemical pollution, genetics, abundance surveys, best practice guidelines (including noise, telemetry, Conservation Management Plans, shipping)</li> <li>○ Worked to ensure measures align with EU policy especially the Habitats Directive</li> </ul> </li> </ul> <p><i>Other</i></p> <ul style="list-style-type: none"> <li>• 2000-2018 Editor of the <i>Journal of Cetacean Research and Management</i></li> <li>• Invited Chair of two US Government workshops on North Atlantic right whales and mitigation measures for bycatch in fishing gear and vessels strikes, incorporating scientist and stakeholders</li> <li>• Field work leader on numerous national and international projects in the Arctic, North Atlantic, North Pacific, South Pacific and the Mediterranean, primarily aimed at estimation of abundance</li> <li>• Guest lecturer on marine mammal courses at King's College London and the University of Valencia</li> </ul>
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