

## PERSONAL INFORMATION

## Simone Libralato



HOME: Via Damiano Chiesa 14, Trieste, 34128, Italy  
 WORK: Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS  
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Sex M | Date of birth 28/07/1973 | Nationality Italian

Married with two children

## BIOSKETCH

Holds a research position at OGS - Istituto Nazionale di Oceanografia e Geofisica Sperimentale, in Trieste, Italy since 2008. He gained the habilitation for professorship ("professore seconda fascia") in 2012, sector 05/C1 Ecology. He has a background in ecological modelling and quantitative analyses with special emphasis on bioenergetics of fish and shellfish, ecosystem modelling applied in marine environment for analysing aquaculture and fisheries issues. He has more than 15 years of research experience in marine food web modelling and application of integrated approaches to marine ecology. Experience in deterministic mathematical modelling applied to biology and ecology, such as individual based models, trophic web models and ecotoxicological models. His research is focused on combined effects of different pressures, in particular fishing, aquaculture, climate and nutrient input on marine and coastal ecosystems. His expertise has served within regional, national and international research projects. This includes coordination of field activities of the regional project for sustainable mussel aquaculture (SOSTEMITS, 2008-2010), coordination of task on Communities and food webs modeling within the RITMARE Italian flagship project (2012-2018), integration of food web and biogeochemical models for climatic and fishing scenarios in EU FP7 projects PERSEUS (2012-2015) and OPEC (2012-2014). Involved in the projects EU DG Mare RECFISH (2018-2019) for collection and analysis of historical fisheries data, MANTIS (2017-2019) on connectivity useful to manage fisheries, NOCI di MARE (2018-2019) for the simulation of ecosystem effects of the invasive species *Mnemiopsis leydi* in the Northern Adriatic. PI of the Interreg project PRIZEFISH (2019-2021) on ecolabelling of fisheries products, contributes to DEEPBLUE (capacity building in Blue Growth 2019-2020) e VENEZIA2021 (modelling food web of the Venice lagoon; 2018-2021), coordinates a WP in the EU project ATLANTECO (H2020, BG10; 2020-2024). He is the coordinator of the Interreg project Italia-Croazia FAIRSEA (2019-2021) on ecosystem approach to fisheries in the Adriatic sea.

## Scientometric data (August 2020)

Authored more than 60 peer-reviewed publications (70 listed in Orcid; 65 listed in Scopus)  
 Scholar: citations 3386 H index 28;  
 (scholar.google.it/citations?user=KccroWQAAAAJ&hl=en&oi=sra)  
 Scopus: 2250 citations, H index 25 (Author ID: 12142364900)

## WORK EXPERIENCE

From Feb2008 to present

## Research Scientist (permanent position from 2010)

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS, Borgo Grotta Gigante, 42/c, 34010, Sgonico (Trieste), Italy

- integration of food web and biogeochemical models, climatic and fishing scenarios for study the impact of fishing, climate and aquaculture on the marine ecosystems (FP6 SESAME, FP7 PERSEUS, OPEC UE projects; RITMARE Italian Flagship; MANTIS; CLIMA projects); ecosystem modelling for fisheries, climate and management scenarios ( Interreg IT-HR FAIRSEA; Interreg IT-HR PRIZEFISH; DGMARE MANTIS, EASME-RECFISH; Nazionali: RITMARE. VENEZIA2021; Locali: SOSTEMITS, NOCI DI MARE); collaborations in international (MAREFRAME) and national projects (FIMAPS); organization and collection of experimental data on mussel farms (project SOSTEMITS); analysis of time series of landings and fishing data (HMAP framework); organization of international summer school and conference on ecological modelling and marine history ecology (WHME2009; ECEM2014)

From Feb2005 to Feb 2008

Business or sector Scientific research, marine ecology, food web modelling, fisheries ecology  
 Post-doc

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS, Borgo Grotta Gigante, 42/c, 34010, Sgonico (Trieste), Italy

- food web models, integration of food web and biogeochemical models, climatic and fishing scenarios (SESAME UE project); biological data sampling, supervising fellows on building a growth model for *Mytilus galloprovincialis* (ECOMADR regional project); Organization of conference Ecological Modelling and Workshop (ECEM07; workshop ECEM2007)

From June2000 to Dec 2004

**Business or sector** Scientific research, marine ecology

### Fellowships, contracts

Istituto Centrale per la Ricerca Scientifica e Tecnologica Applicata al Mare – ICRAM (now Istituto Superiore per la Ricerca e la Protezione Ambientale – ISPRA), Chioggia, Italy; Università Ca' Foscari di Venezia – Dipartimento di Scienze Ambientali, Dorsoduro 3246, Venezia, Italy

- analysis of biological data and time series of fisheries data; development and application of ecological indicators and models for ecosystem assessment and fishing impacts for ecosystem advice in the framework of the ecosystem approach to fisheries (Programme PR 116; fellow ICRAM 5/2000; Programme PR117)

**Business or sector** Scientific research, fisheries ecology

## EDUCATION AND TRAINING

From Sept2001 to Dec 2004

### PhD

Università Ca' Foscari – Dipartimento di Scienze Ambientali, Dorsoduro 3246, Venezia, Italy

- Title: "Marine ecosystem functioning analysed by means of indicators and models" (supervisor: Prof. Dr. Fabio Pranovi). Application of different quantitative numerical and modelling methods for an ecosystem approach to the study of anthropogenic impacts on ecosystems (fisheries in particular).

From Jul1992 to Jul1998

### MSc (Cum Laude)

Università Ca' Foscari – Dipartimento di Scienze Ambientali, Dorsoduro 3246, Venezia, Italy

- Title: Identification of a growth model for seabream (*Sparus aurata*) and its applications in aquaculture (Supervisor: Dr. R. Pastres). Development of a bioenergetic growth model, also with experimental laboratory work. Sensitivity analysis, uncertainty analysis, Montecarlo

## PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Organisational / managerial skills

- Coordinator of the Action AZ3 (5 Operational Units): “Modeling communities and food web”, in the RITMARE Flagship project, SP2 –WP2 Tools for EA to Fisheries and Aquaculture (2013-ongoing);
- Coordinating logistic and field activities on mussel farm in the project SOSTEMITS (2008-2010);
- Responsible for statistical analyses of POPs intercalibration procedure (INTERCIND), 2008-2017;
- leadership (currently coordinating a team of 4 people)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Independent user	Independent user
Replace with name of ICT-certificate(s)				

Other computer skills

- good command of office suite (word processor, spread sheet, presentation software)
- more than 10 years experience on Ecopath with Ecosim ecosystem modelling software
- programming VB, R (basic skills), Fortran

Licences

Driving (B); Diving (Open water diver - PADI)

**MEMBER OF ORGANIZING COMMITTEE**

- 2020 **AMARE-MED 2021, Advanced school on Multispecies modelling Approaches for ecosystem-based marine Resource Management in the MEDiterranean Sea**, (Organizing Committee: Simone Libralato, Sveltana Krstulović Šifner, Jure Brčić, Mirela Petrić) 21-26 June 2021, Università di Spalato, Split, Croatia.
- 2019 **AMARE-MED 2019, Advanced school on Multispecies modelling Approaches for ecosystem-based marine Resource Management in the MEDiterranean Sea**, (Organizing Committee: Libralato S., Agnetta D., Scarcella G.) 1 July – 6 August 2019, Istituto Veneto di Scienze Lettere ed Arti, Venezia, Italy.
- 2018 **Workshop in FISH FORUM 2018: Toward Operational Fisheries Oceanography in the Mediterranean Sea: gaps, challenges, opportunities from open access data and integrated tools**, 10 Dicembre 2018, FAO Headquarters, Terme di Caracalla, Roma, Italia
- 2018 **AMARE-MED 2018, Advanced school on Multispecies modelling Approaches for ecosystem-based marine Resource Management in the MEDiterranean Sea**, 30 July - 3 August 2018, presso l'ICTP - the Abdus Salaam International Centre for Theoretical Physics Trieste, Italy.
- 2018 **Modelling Ocean Plastics Litter in a Changing Climate: Challenges and Mitigations (EUROMARINE, Foresight Workshop - Horizon scanning)**, 26-27 Aprile 2018, CIIMAR - Interdisciplinary Centre of Marine and Environmental Research, Oporto, Portugal
- 2017 **AMARE-MED 2018, Advanced school on Multispecies modelling Approaches for ecosystem-based marine Resource Management in the MEDiterranean Sea**, 30 July - 5 August 2018, presso CNR-IAMC Torretta di CapoGranitola, Trapani, Italy.
- 2014 **Ecopath 30 years - Modelling dynamic ecosystems: beyond boundaries with EwE**, 10-12 November 2014, CSIC-ICM, Barcelona, Spain
- 2014 **The 8th European Conference on Ecological Modelling (ECEM 2014), Beyond boundaries: next generation modeling**, October 27-30, 2014, University Cadi Ayyad, Marrakech, Marocco
- 2009 **International Summer School: “When humanities meets ecology: historic changes in Mediterranean and Black Sea marine biodiversity and ecosystems since the Roman period until nowadays. Languages, methodologies and perspectives”** tenutasi dal 31 Agosto al 4

- Settembre 2009 a Trieste, presso l'ICTP - the Abdus Salaam International Centre for Theoretical Physics.
- 2007 **6<sup>th</sup> European Conference on Ecological Modelling, ECEM07**, Novembre 27-30, 2007, Trieste, Italy. Conferenza organizzata da OGS e ospitata dall'ICTP.
- 2007 **Workshop on "Biogeochemical processes and fish dynamics in food web models for end-to-end conceptualization of marine ecosystems. Theory and use of Ecopath with Ecosim"**, Novembre 26-27, 2007, Trieste, Italy. Workshop organizzato da OGS in collaborazione con il Fisheries Centre (Vancouver, Canada), e ospitato dall'ICTP.
- 2004 **Workshop on Data Assimilation and Recursive Estimation - DARE2004**, 20-21 settembre, 2004, Venezia, Italy. Workshop organizzato dai Dipartimenti di Statistica e di Chimica-Fisica dell'Università Ca' Foscari di Venezia.
- 2002 **VII Congresso Nazionale di Chimica Ambientale – Dal locale al globale: percorsi di sostenibilità**. 11-14 giugno 2002, Venezia, Italia. Congresso organizzato dalla Società Italiana di Chimica in collaborazione con l'Università Ca' Foscari di Venezia.

## TEACHING, LECTURE, COURSES

- 2021 **Spatial multispecies model from data to management scenarios**. S. Libralato and N. Serpetti. AMARE-MED 2020, Advanced school on Multispecies modelling Approaches for ecosystem-based marine Resource Management in the MEDiterranean Sea 20-25 July 2020, Università di Spalato, Split, Croatia
- 2020 **Ecological models for the implementation of the ecosystem-based approach to fisheries management: from multispecies to ecosystem models**. (data requirement, Ecopath with Ecosim, case studies). Technical Assistance for the Implementation of Stock Assessments in Fisheries Activities, 19-21 February 2020, Ankara Turkey
- 2019 **DEEPBLUE Trainer for Trainers – Marine Sciences**, 21-26 October 2019, Sfax (Tunisia) – Modellistica di ecosistema e attività pratica
- 2019 **OGS Master in Sustainable Blue Growth**, 26 Giugno 2019 – lectures on "Stock Assessment" e "Food web models and fisheries"
- 2018 **OGS Master in Sustainable Blue Growth**, 5 luglio 2018 – Lezioni su "Stock Assessment" e "Food web models and fisheries"
- 2017 **Advanced Training School on Sustainable Blue Growth in the Mediterranean and Black Sea countries (10-19 Luglio 2017)**, Lezioni su "Impacts of fisheries in Mediterranean stocks and ecosystems" and " Integrated approaches for the sustainability of fisheries in the Mediterranean sea", 18 luglio 2017, ICTP, Trieste
- 2016 **Università di Trieste, Corso di Laurea in Biologia**, Corso di modellistica ecologica, lezione su "Ecosystem modelling with Ecopath with Ecosim", 12 aprile 2016.
- 2015 **Danube Research Institute**, "Ecosystem Modelling with Ecopath with Ecosim", Lectures at Centre for Ecological Research, Hungarian Academy of Sciences, 12-13 November 2015, Budapest.
- 2012 **University of Addis Ababa, Faculty of Science**, "Whole-lake ecosystem analysis: ecological modelling and Ecopath with Ecosim". Lectures at the Zoological Science Unit Program from 22 January 2012 to 06 February 2012. Addis Ababa, Ethiopia
- 2010 **WWF Mediterranean Programme and the UNEP/MAP**, Impacts from Fisheries on Species and Habitats of Concern in the Mediterranean (invited lecture); 2nd Regional Training Workshop on Planning for sustainable fisheries in Marine Protected Areas, Kas, Turkey, October 4-11, 2010
- 2010 **Università degli Studi di Padova, Biologia Marina**, Laboratorio sperimentale "Laboratori di modelli matematici per la gestione delle risorse" presso Palazzo Grassi – Chioggia (Venezia), il 9 e 10 giugno 2010 (circa 12 ore) all'interno del corso del Dott. Sasa Raicevich
- 2009 **Università di Lecce, Master in "ECO-GOVERNANCE DEGLI ECOSISTEMI LAGUNARI DEL BACINO ADRIATICO"**, Lezione del modulo Ecologia: Principi di modellistica ecologica, Lezione su "Modelli di rete trofica" (lezione 19)
- 2009 **SESAME international Summer School on Coupled ecological models**. Lezione frontale teorica (3 ore) e attività pratica (2 ore) relativa a "Theory of Ecopath with Ecosim and applications in the Mediterranean and Black Sea", 08-13 giugno 2009, Malta.
- 2009 **CIHEAM-IAMZ (International Centre for Advanced Mediterranean Agronomic Studies – Mediterranean Agronomic Institute of Zaragoza) in collaborazione con la GFCM (General fisheries Commission for the Mediterranean)**. Lezione (3 ore) su invito su "Models: Ecopath with Ecosim" al Corso Avanzato in "Methodologies for fisheries stock assessment in the Mediterranean"; Saragozza, Spagna, 18 Marzo 2009.
- 2008-2009 **Università degli Studi di Padova, Biologia Marina**, Lezioni ad invito su "Modelli matematici per lo studio della pesca" presso, Palazzo Grassi – Chioggia (Venezia), il 6 marzo 2008 ed il 26 maggio 2009.
- 2004 **Fisheries Centre, University of British Columbia, Vancouver, Canada**. Teaching assistant al

- workshop "Using Ecosystem Modeling for Fisheries Management", dal 10 al 14 maggio 2004. Al corso tenuto da Dr. C.J. Walters and Dr. V. Christensen, svolte funzioni di collaboratore nell'organizzazione, assistenza alle esercitazioni e supporto supplementare ai frequentanti.
- 2001-2004 **Dipartimento di Scienze Ambientali, Università Ca' Foscari di Venezia**. Durante gli anni accademici dal 2001-2002 al 2003-2004 sono state tenute esercitazioni e lezioni presso alcuni corsi. In particolare, sono state svolte alcune ore di esercitazione nei corsi "Modelli e rappresentazioni dell'ambiente" (corso tenuto dal Prof. Roberto Pastres) e "Gestione delle risorse marine" (corso tenuto dal Dott. Fabio Pranovi). Tali esercitazioni riguardavano l'utilizzo di modelli quali Ecopath with Ecosim e i VPA (Virtual Population Analysis) e MSVPA (Multi Species VPA).
- 2002-2003 **Corso di Laurea in Scienze Ambientali e di altri corsi della Facoltà di Scienze dell'Università Ca' Foscari di Venezia** Dal novembre 2002 al marzo 2003 è stata svolta attività di tutoraggio agli studenti per l'anno accademico 2002-2003.

## SCIENTIFIC DISSEMINATION

- 2020 **Regali di Biodiversità, Webinar per Educatori, Trieste, Italy.** Simone Libralato, "Prodotti dal mare, sfruttati dall'uomo: percorsi di sostenibilità della pesca" e "Playdecide FAIRSEA e Fish n' Ships". Webinar organizzato da OGS e Riserva Naturale Marina di Miramare, 6 Novembre 2020, Trieste.
- 2020 **Food & Science Festival, Mantova, Italy.** Francesca Biondo (Federpesca) e Simone Libralato, "Il cibo in rete. Pesca e sostenibilità ambientale, sociale ed economica". 4 Ottobre 2020, Mantova.
- 2020 **Trieste NEXT, FISH'N'SHIPS GAME,** Primo torneo del gioco prodotto con il progetto FAIRSEA. Simone Libralato e Diego Manna, 27 Settembre 2020, Trieste
- 2020 **Il mare nel piatto: alla scoperta della catena trofica 2 e 4 Settembre 2020,** ESOF 2020, Antico Caffè San Marco, Trieste
- 2020 **Aperitivi sul mare (organizzati da Marevivo e OGS)** "Il futuro di una pesca sostenibile parte dal passato" 13 Luglio 2020, Trieste (con Luigi Divari)
- 2020 **BlueSpritz with AMP Miramare,** "Dai mari di pesci ai mari gelatinosi" 23 April 2020, Trieste: discussion online (Facebook e Youtube) with Maurizio Spoto and Marco Costantini
- 2019 **Ecofestival Ondablu,** "Lo stato del nostro mare: l'impatto di pesca e plastica" ("The state of our seas: impacts of plastics and fisheries"). 10 October 2019, Polo Giovani Toti, Trieste
- 2019 **SHARPER the night of researcher.** Public conference "I prossimi 160 anni di cambiamenti globali senza dimenticare Darwin" (next 160 years of global changes without forgetting Darwin) con P. Del Negro, S. Martellos, F. Zampieri, S. Segantini e S. Libralato. 27 settembre 2019, Piazza Unità, Trieste
- 2019 **Mare e Salute: degustazioni scientifiche per conoscere il mare, i suoi prodotti e le sue risorse.** "La catena trofica nel piatto". 10 Maggio 2019, Antico Caffè San Marco, Trieste
- 2019 **Mare e Salute: ciclo di conferenze divulgative sul legame tra uomo e mare.** "Un contributo dell'approccio ecosistemico alla pesca al decalogo del mangiare sano e sostenibile". 10 Aprile 2019, Auditorium del Museo Revoltella, Trieste
- 2019 **Il Mare nelle nostre mani - Laboratori e incontri organizzati da Marevivo, OGS e Immaginario Scientifico.** "Lo stato dei nostri mari". 31 Marzo 2019, Immaginario Scientifico, Trieste
- 2018 **Pesca sostenibile e scelte consapevoli,** con Antonio Terlizzi, 21 giugno 2018, Antico Caffè San Marco, Trieste
- 2018 **Pint of Science,** "Grande, media o piccola? L'effetto della pesca sui nostri mari", Old London Pub, 16 maggio 2018, Trieste
- 2018 **ENAIP FVG,** "Come sarà il pescatore del futuro?" 11 maggio 2018, Trieste
- 2017 **Trieste-NEXT,** "Cento anni di pesca con la saccaleva a Trieste". Tavola rotonda con Jacopo Pasotti, Sasa Raicevich, Renzo Zennaro e Simone Libralato "Dal Mediterraneo al Madagascar, la pesca del futuro" 22 settembre 2017, Museo Rivoltella, Trieste
- 2017 **Incontro divulgativo a Chioggia:** "Il mercato ittico di Chioggia racconta i cambiamenti dell'ecosistema alto Adriatico negli ultimi 70 anni. In: "Come è cambiata la pesca a Chioggia: percezione e analisi scientifica", incontro divulgativo. 30 Giugno 2017, Chioggia, Venezia
- 2017 **Slow Fish - We are the Net,** "Reverse Landscape", 20 and 21 May 2017, Genova (Italy)
- 2017 **Caffè delle Scienze,** "100 anni di pesca con le lampare nel Golfo di Trieste". Caffè Teatro, Gorizia (Italy), 12 Maggio 2017
- 2017 **Progetto Ecologicamente,** "Una specie in estinzione: il pescatore", Arci, Trieste (Italy), 06 April 2017
- 2016 **CROFISH - 10th International Fisheries Fair,** Celic I., Libralato S., Raicevich S., Scarcella G., Solidoro C., 2016. Europska uredba 1380/2013 obaveznog iskrcaja odbačenog ulova: ekosistemska analiza mogućeg utjecaja na ekologiju mora i ekonomiju ribarstva sjeverno-istočnog Jadrana (Regolamento europeo 1380/2013 sull'obbligo di sbarco degli scarti da pesca: analisi ecosistemica dei possibili effetti sull'ecologia e l'economia della pesca nel nord-est Adriatico), Porec, Croatia, 18 – 20 novembre 2016
- 2016 **Caffè delle Scienze e delle Lettere,** "Come sarà il pescatore del futuro?" Caffè Tommaseo, 9 giugno 2016, Trieste.
- 2016 **Università della Terza Età.** "Cozze, Vongole e Pesci: un mare da mangiare" con Diego Borme, 20 gennaio 2016, Trieste



- 2015 **Slow Fish**, "Lontano dagli occhi, lontano dal cuore: la pesca dei paesi europei nei mari distanti dall'Europa e in Africa". Laboratorio dell'acqua di Slow Fish, 17 Maggio 2015, Genova.
- 2011 **Civico Museo del Mare**, "Adriatico: Ritorno al futuro. Il pesce che c'era, che c'è e che ci sarà". Speciale Marestate 2011 - Navigando nella scienza. 18 Agosto 2011., Trieste.

#### ON THE MEDIA

- 2020 **ESOF & Science in the City**, 30 Luglio 2020. Incontro coi giornalisti presentazione dell'evento "Il mare nel piatto: alla scoperta della catena trofica"
- 2020 **Radio Capodistria - l'Alveare**, 24 marzo 2020. Gioco a carte della pesca sostenibile, intervista con Diego Manna.(progetto FAIRSEA)
- 2019 **Oggiscienza** 18 gennaio 2019. Pesca in Europa con obbligo di sbarco. In articolo di Stefano della Casa (<https://oggiscienza.it/2019/01/18/pesca-europa-obbligo-sbarco-scelta-giusta-mediterraneo/>)
- 2019 **Radio RAI**, "RADAR" (curato da Daniela Picoi) FAIRSEA project, 8 gennaio 2019
- 2018 **Radio RAI "Sconfinamenti"** (curata da Massimo Gobessi) "Pesca Sostenibile" 16 luglio 2018
- 2017 **Radio RAI "Radar"** (Condotta da Daniela Picoi) Intervista sui "Modelli per la gestione del mare", 17 gennaio 2017

#### INVITED SPEAKER

- 2020 Libralato S., 2020. Ecological and economic effects of EU CFP discard landing obligation evaluated using a quantitative ecosystem approach for the Northern Adriatic Sea. **MEDAC – Mediterranean Advisory Council, WG1 meeting** 18 February 2020, Roma, Italy (**Invited expert**)
- 2018 Libralato S., 2018. Fisheries discards: to land or not to land, that is the question. **European Marine Board - Autumn Plenary Meeting**, 24 October 2018, Trieste, Italy (**Invited Plenary Evening Lecture**)
- 2018 Libralato S., Fortibuoni T., Solidoro C., 2018. Food web of plastics: moving towards inclusion of plastics in ecosystem modelling. **Modelling Ocean Plastics Litter in a Changing Climate: Challenges and Mitigations** (EUROMARINE, Foresight Workshop - Horizon scanning), 26th - 27th April 2018, Oporto, Portugal (**keynote speaker**)
- 2017 Libralato S. 2017. Ecosystem-based approaches for supporting sustainable marine resource exploitation and spatial planning. **Bilateral symposium Italy-Korea** .Current scientific issues and innovative approaches and technologies for a sustainable fisheries development 29-30 November 2017, Busan, Korea (**invited speaker**)
- 2017 Libralato S. & Fortibuoni T., 2017. Ignore historical data and miss the boat: role of past information on quantitative analysis of marine resources. **Ocean Past VI – Sesimbra – Portugal** 15-18 May 2017 (**keynote speaker**)
- 2017 Libralato S., 2017. Marine trophodynamic models: from theoretical developments to tools for supporting marine policy. Blue Science for Blue Growth – Connecting ideas and people, 8 February 2017, **Euromarine Event at EU Parliament**, Bruxelles (**Keynote speaker**)
- 2016 Libralato S., 2016. Ecosystem status (other impacts and climate change). **Public Hearing of the European Parliament -Committee on Fisheries**, "Mediterranean Sea: state of the fishing stock and strategies to adopt for the conservation and socio-economic situation of the fisheries sector", 19 April 2016 , Bruxelles (**invited speaker**)
- 2016 Libralato S., 2016. Ecosystem status (other impacts and climate change). **High-level seminar on the Status of the Stocks in the Mediterranean and the CFP approach** (organized by EU DGMARE, MEDAC & MIPAAF). 9-10 February 2016, Catania, Italy (**Invited speaker**)
- 2015 Libralato S., Ghribi M., 2015. Contributing to blue growth through development of skills and research: an ecosystem approach to fisheries and aquaculture for sustainable exploitation of marine resources. **Ministerial Meeting on Food Security and Climate Adaptation in Small Island Developing States**. 14 - 16 October 2015, Milan, Italy. (**Invited contribution**)
- 2015 Libralato S., 2015. Gestione sostenibile delle attività di pesca e acquacoltura: approccio ecosistemico e gestione integrata della fascia costiera. **FOOD EAST – RESEARCH AND INNOVATION FORUM** 2015. Verso la Carta di Milano: le eccellenze del FVG e dell'Europa centro-orientale per la sostenibilità in campo alimentare. Udine 24-25 Giugno 2015 (**invited speaker**)
- 2015 Libralato S., 2015 Marine trophodynamic models: from theoretical developments to tools for supporting marine policy. **Euromarine First General Assembly**, Stazione Zoologica Anton Dohrn, 24-25 February 2015, Napoli, Italy (**keynote invited speaker**)
- 2014 Libralato S., Colloca F., Lopez S., Solidoro C., Ardizzone G., 2014. Potential ecosystem effects of the application of management targets derived from single species assessments: insights from a multispecies-multifleet model. **International Dissemination Conference** on the "Ecosystem approach to Fisheries in the Mediterranean and Black Seas" Barcelona, Spain, 9-10 April 2014 (**invited speaker**)
- 2010 Libralato S., Coll M., 2010. EwE modelling contributions to the Ecosystem Approach in the Mediterranean Sea. **Workshops on End-to-End models and Mediterranean models**, November 15-19, Barcelona, Spain (**keynote invited speaker**)
- 2010 Libralato S., 2010. Ecopath with Ecosim & Examples of End-to-End implementations. **Workshops on End-to-End models and Mediterranean models**, November 15-19, Barcelona, Spain (**keynote**)

- 2006 **invited speaker)**  
 Libralato S., 2006. Species roles and positions in food webs. Invited contribution to the **mini-workshop** organized by Ferenc Jordán at the Collegium Budapest, Institute for Advanced Study, May 26-27, 2006, Budapest, Hungary. **(invited contribution)**

## PROJECT RESPONSABILITY

- 2020-2014 **ATLANTECO (Atlantic ECOSystems assessment, forecasting & sustainability), H2020-BG-2018-2020 project, coordinated by Daniele Iudicone (SZN)**, S Libralato is WP3 co-leader (with S. Villasante) on “Marine ecosystem health and services” (total budget >10mil Euros; OGS share: 300Keuros)
- 2019-2020 **LabMAF** (Developing a Labelling Scheme for Mediterranean Small-scale and Artisanal Fish Products), BlueMed project coordinated by Jerneja Penca (EMUNI & NIB, Pirano, Slovenia) on labellig SSF products. Simone Libralato is PI.
- 2019-2021 **Project Coordinator, Interreg Italia-Croazia**: Fisheries in the Adriatic Region - a Shared Ecosystem Approach (FAIRSEA), CUP F26C1800039005 (2 000 000 euros)
- 2019-2021 **PRIZEFISH** (Piloting of eco-innovative fishery supply-chains to market added-value Adriatic fish products), Interreg Italia-Croazia, Principal Investigator (250 K euro)
- 2019-2020 **DEEPBLUE** (Developing Education and Employment Partnerships for a Sustainable Blue Growth in the Western Mediterranean Region). EASME/EMFF project. Scientific Board.
- 2018-2021 **Responsible for Linea 4.1**, “Modellistica della catena trofica” del progetto “Venezia 2021 Programma di ricerca scientifica per una laguna “regolata”, capofila CORILA. (100 000 euros)
- 2017-2018 **Responsible SP2\_LIX\_AZ03\_UO01**- Modello rete trofica per il sistema adriatico, per il sistema ionio, per il canale di Sicilia, nell’ambito del 4 anno del progetto RITMARE (20 000 euros)
- 2018-2019 **Responsible Task 2.1 (Validazione dei dati di sbarcato) del Progetto RECFISH** – Recovery of fish historical time series for Mediterranean and Black Sea stock assessment (progetto DG MARE EASME/EMFF/2016/032; 2018- 2019) (30 000 euros)
- 2016-2017 **FIMAPS** (Fisheries Management Plan Systems), project for italian ministry MIPAAF for the development of an innovative technical-scientific framework for multiannual fisheries plans following EU regulation 1380/2013. Project coordinated by G. Scarcella (CNR-ISMAR), and F. Colloca (CNR-IAMC). S Libralato is the responsible of multispecies modelling.
- 2013-2017 **Coordination task 3 SP2-WP2-AZ3** : “Models of community and food webs” Project Ritmare – La Ricerca Italiana per il Mare, Flagship project del Programma Nazionale della Ricerca finanziato dal Ministero dell’Università e della Ricerca (2013-2017) (500 000 euros)
- 2012-2015 **PERSEUS** (Policy-oriented marine Environmental Research for the Southern European Seas), EU-FP7 project coordinated by V. Papatthanassiou (HCMR) on anthropic impacts and natural changes on Mediterranean and Black Sea . S Libralato is involved in WP4 (coordinated by Marco Zavattarelli, UNIBO) on integrating food web and biogeochemical models..
- 2012-2014 **OPEC** ( Operational Marine ecosystem forecasting) progetto EU-FP7 coordinated by Icarus Allen (PML) for the expansion of the MyOcean/Copernicus operational systems to high trophic levels. S. Libralato is involved in WP2 for the integration of food web models ad biogeochemical models of the Adriatic Sea.
- 2007-2011 **SESAME** (Southern European Seas: Assessing and Modelling Ecosystem change) EU FP6 Project coordinated by V. Papatthanassiou (HCMR) on anthropic and natural changes in Mediterranean and Black Seas. Simone Libralato is linking food web and biogeochemical models for the Adriatic Sea in collaboration with CSIC (M. Coll e I. Palomera), CNR-ISMAR (E. Arneri, A. Santojanni).
- 2008-2010 **Coordinamento attività logistiche e di campo del progetto SOSTEMITS** - Sostenibilità della Mitilicoltura Triestina, Finanziato da Regione FVG (2008-2010)

2008-2018 **Responsabile elaborazione dati CIND & INTERCIND dal 2008 al 2018**, per l'analisi statistica dei circuiti intercalibrazione di analisi inquinanti organici persistenti su matrici ambientali

### REPRESENTATIVE IN NETWORKS AND WORKING GROUPS

- 2020 **Advisory Board – MISTIC SEAS III project**, financed by the EMFF for the assessment of the environmental status of the marine environment based on Descriptor 4 of the Marine Strategy Framework Directive (MSFD) for the Macaronesia (2020-2021).
- 2019 **MAREVIVO** – Member of the Scientific Committee, Fisheries sector
- 2019 **Conferenza degli Addetti Scientifici 2019** Ministero Affari Esteri e della Cooperazione Internazionale – Tecnologie del Mare e l'Innovazione che parla italiano, Gli Addetti promotori della diplomazia scientifica nel mondo, 27-28 Giugno 2019, Roma, Tavolo tecnico pesca e acquacoltura per OGS.
- 2019 **WestMed** – Tavolo Stakeholders Italiani interessati a Pesca ed Acquacoltura, Ministero Affari Esteri e della Cooperazione Internazionale, Tavolo tecnico pesca e acquacoltura per OGS, Maggio 2019, Roma
- 2018 **Cluster BIG** – membro del "Working Group Risorse Biotiche Marine (WG-RB)" per OGS
- 2018 **STATI GENERALI DELLA RICERCA MARINA IN ITALIA** – membro del "Working Group Risorse Biotiche Marine" per OGS
- 2017 ad oggi **Gruppo di lavoro sullo stato Trofico dell'Adriatico**, coordinato da Fondazione Centro Ricerche Marine (A. Rinaldi): Tendenze evolutive dello stato trofico e biologico con particolare riferimento all'abbondanza degli stock ittici.
- 2016 ad oggi **Piano Nazionale di Adattamento ai Cambiamenti Climatici (PNACC)**, Membro del Gruppo di Lavoro sulla PESCA (responsabile O. Giovanardi)
- Dal 2015 **GA Substitute in Euromarine Research Network**
- 2014 ad oggi **Membro del Board dell'Ecopath Research Consortium**

### FUNDRISING

- 2017 Euromarine support the Capacity Building and Training Advanced school on Multispecies Modelling Approaches for Ecosystem Based Marine Resource Management in the Mediterranean Sea (5000 euros)
- 2014 EUR-OCEANS grant referenced EOC/PFB/ 2014.0002, to support the 8th European Conference on Ecological Modelling ECEM2014 (5000 euros)

### SUPERVISION

#### Master thesis

- 2020 Andrea Lanza (2020) Management Advice for Sustainable Fisheries in the Gulf of Trieste. Advanced Master on Sustainable Blue Growth (2018/2019). Tutors: Simone Libralato, Elena Marchigiani.
- 2020 Lobna Boudaya (2020) State of marine fisheries in Tunisia: an indicator-based assessment. Master on Sustainable Blue Growth (2018/2019). Tutors: Simone Libralato, Lassad Neifar.
- 2020 Anas Mokdad (2020) Fisheries management in the Mediterranean Sea. Master on Sustainable Blue Growth (2018/2019). Tutors: Simone Libralato, Hamza Mendil Enssmal.
- 2020 Ghada Neji (2020) Marine Spatial Planning Case Study: The Gulf of Gabes in Tunisia. Advanced Master on Sustainable Blue Growth (2018/2019). Tutors: Simone Libralato, Elena Marchigiani.
- 2019 Najla King (2019) STRENGTHENING FISHERIES LEGAL FRAMEWORKS THROUGH SCIENTIFIC EVIDENCE-BASED MECHANISMS: SCIENCE-POLICY INTERFACE IN FISHERIES LAW AND POLICY. Master on Sustainable Blue Growth (2018/2019). Tutors: Simone Libralato, Donata Canu.
- 2018 Pavel, Ana Bianca (2018) Ecopath with Ecosim ecosystem model, a potential application for evaluation the complexity of the Razelm Sinoe lagoon system, Danube Delta, in term of blue growth sustainability. Advanced Master on Sustainable Blue Growth - OGS. Tutors: Simone Libralato, Vasiliu Dan.
- 2018 Hussein, Doaa M.A. (2018) The economic and social effects of lighting development in the field of fishing on the productivity of fish wealth in the Gaza Strip. Advanced Master on Sustainable Blue Growth - OGS. Tutors: Simone Libralato, Mohammed El Raee
- 2018 Silvia Virgili (2018) Il ruolo delle comunità macrozoobentoniche nella valutazione del Capitale Naturale dell'area Marina protetta di Miramare. Dept. Biology Università degli Studi di Padova, Padova, 93 pp. TBF Tutors: tutor: Isabella Moro; co-tutors: Rocco Auriemma, Simone Libralato
- 2015 Panzeri, Diego (2015) Analisi statistica e modellistica dei dati storici di pesca dell'Acciuga (*Engraulis encrasicolus, L.*) a Trieste. Dept. Life Sciences Università degli Studi di Trieste, Trieste, 125 p. Tutors: Del Piero D., Libralato S
- 2003 Brigolin, Daniele (2003) Development of a bioenergetic model of the growth of *Zosterisessor ophiocephalus* in the Venice lagoon. Dept. Environmental Sciences Università Ca' Foscari di Venezia, Venice, 99 p. Tutors: Roberto Pastres; co-tutor: Simone Libralato
- 2002 Zucchetta, Matteo (2002) Fishing management in North Adriatic Sea: an ecosystem approach. Dept. Environmental Sciences Università Ca' Foscari di Venezia, Venice, 93 p. Tutors: Torricelli, Pranovi,



Libralato

**PhD thesis**

2020-ongoing **Matteo Loschi (2020) XXXXXXXXXXXX . Università degli Studi di Trieste, Trieste, Tutor: Libralato S.**

2019-ongoing Panzeri, Diego (2019) Multispecies spatially explicit model for management of exploited resources . Università degli Studi di Trieste, Trieste, Tutor: Libralato S.

2017 Celic, Igor (2017) Development of an ecosystem model of the northern Adriatic Sea . Università degli Studi di Trieste, Trieste, Tutors: Solidoro C., Libralato S.

2017 Ricci, Pasquale (2017) Il ruolo delle specie keystone nella comunità demersale del Mar Ionio Settentrionale: aspetti strutturali, funzionali e gestionali. Università degli Studi di Bari "Aldo Moro", Bari, Tutors: Tursi A., Carlucci R., Libralato S.

2016 Lionetti, Adriana (2016) Modello della struttura trofodinamica della comunità demersale del Mar Ionio Settentrionale. Università degli Studi di Bari "Aldo Moro", Bari, Tutors: Carlucci R., Libralato S.

2013 Lopez, Serena (2013) L'ecosistema del Mar Tirreno: aspetti strutturali, funzionali, effetti della pesca e delle interazioni trofiche. Dept. Biology and biotechnology "Charles Darwin" Università degli studi di Roma ""La Sapienza"", Rome,280 p. Tutors: Ardizzone G., Colloca F., Libralato S.

2010 Fortibuoni, Tomaso (2010) Fishery in the Northern Adriatic Sea till the Serenissima fall up to present: an historical and ecological perspective. Dept. Oceanography Università degli Studi di Trieste & OGS, Trieste, Tutors: Solidoro C., Libralato S., Raicevich S.

**POST DOCS AND FELLOWSHIPS**

2016 at present Davide Agnetta, SVILUPPO ED ANALISI DI MODELLI DI RETE TROFICA DEL MAR MEDITERRANEO: DALL'ANALISI DEI DATI BIOLOGICI DI INPUT ALLO STUDIO DEGLI INDICATORI DI ECOSISTEMA. Assegno di ricerca Dept. Oceanography OGS, Trieste, Tutor: Libralato S

2017-at present Igor Celic, MODELLISTICA ECOSISTEMICA PER LA GESTIONE DELLE RISORSE DEL MAR MEDITERRANEO, Assegno di ricerca Dept. Oceanography OGS, Trieste, Tutor: Libralato S

2010 Sook Negusanti, Jim (2010) Collection and analysis of biometric and histological data of mussels reared in experimental ropes. Dept. Oceanography - SOSTEMITS Project Università degli Studi di Trieste & OGS, Trieste, Tutors: Solidoro C., Libralato S., Valli G.

2005 Cummaudo, Fabio (2005) Study of the impact of mussel farms in the Gulf of Trieste. Dept. Oceanography - ECOMADR Project OGS, Trieste, Tutors: Solidoro C., Libralato S.

**MAIN INTERNATIONAL COLLABORATIONS**

**Jason Link**, Senior Scientist for Ecosystem Management, NOAA Fisheries, USA.  
**Andre E Punt**, Director: School of Aquatic and Fishery Sciences, University of Washington, USA  
**Ferenc Jordan**, Director, Balaton Limnological Institute, Centre for Ecological Research, Ungheria  
**Nedo Vrgoc**, Director, Institute of Oceanography and Fisheries, Split, Croazia  
**Francesco Colloca**, Stazione Zoologica Anton Dohrn Napoli, Italia

**EDITORIAL ACTIVITY**

SINCE 2018 **Member of the EDITORIAL BOARD:** Scientific Data (Nature Research Journal)

SINCE 2014 **Associate Editor** Frontiers in Marine Science (specialty: Marine Fisheries, Aquaculture and Living Resources)

2016-2017 **Topic Editor** Challenges and Opportunities for The EU Common Fisheries Policy application in The Mediterranean and Black Sea (research topic in Frontiers in Marine Science)

2014-2015 **Guest Editor** Marine Ecology Progress Series – Theme Section:“Trophodynamics in Marine Ecology: 70 years after Lindeman” Editors: Simone Libralato, Fabio Pranovi, Konstantinos Stergiou, Jason Link

2014-2016 **Guest Editor** Ecological Modelling – Special Issue: “Ecopath with Ecosim 30 years Conference”

2007-2009 **Guest Editor** Ecological Modelling – Special Issue: ECEM07 Challenges for ecological modelling in a changing world: Global changes, Sustainability and Ecosystem Based Management

SINCE 2008 **Advisory committee Member** PAN-American Journal of Aquatic Sciences

**REVIEWER FOR**

Nature, Nature Ecology & Evolution, Scientific Data, Fisheries Research, PlosOne, Marine Ecology Progress Series, Progress in Oceanography, Ambio, Marine Biology, Ecological Modelling, Ecological Indicators, Journal of Marine Systems, ICES Journal of Marine Sciences, Environmental Science & Technology, Deep-Sea Research Part II, Chemosphere, Journal of Sea Research, North American Journal of Fisheries Management, PAN-American Journal of Aquatic

Sciences, Estuarine Coastal and Shelf Science, Hydrobiologia, Ecosphere, Environmental Development, Estuaries and Coasts, Journal of Limnology, Mediterranean Marine Science, Scientia Marina

## Peer review international Publications

1. Pranovi F., **Libralato S.**, Zucchetta M., Anelli Monti M., Link J.S. (2019) Cumulative biomass curves describe past and present conditions of Large Marine Ecosystems. *Glob Change Biol.* 2019;00:1–12. <https://doi.org/10.1111/gcb.14827>
2. D'Alelio D., Hay Mele B., **Libralato S.**, Ribera d'Alcalà M., Jordán F., (2019) Rewiring and indirect effects underpin modularity reshuffling in a marine food web under environmental shifts. *Ecol Evol.* 00: 1–16. <https://doi.org/10.1002/ece3.5641>
3. Ricci P., Libralato S., Capezzuto F., D'Onghia G., Maiorano P., Sion L., Tursi A., Solidoro C., Carlucci R. (2019). Ecosystem functioning of two marine food webs in the North-Western Ionian Sea (Central Mediterranean Sea). *Ecology and Evolution*
4. Martins, I., Bessa, F., Gonçalves, A. M. M., Gago, J., & Libralato, S. (2019). MODELPlastics workshop-Modelling Ocean Plastic Litter in a Changing Climate: Gaps and future directions. *Marine Pollution Bulletin*, 146, 22-25.
5. **Libralato S.**, Pranovi F., Zucchetta M., Anelli Monti M., Link J. 2019. Global thresholds in properties emerging from cumulative curves of marine ecosystems. *Ecological Indicators*, 103: 554-562
6. **Libralato S.**, Agnetta D. (2019) From ecological trade-offs to resilience: Insights from exploited marine ecosystems. *Current Opinion in Systems Biology* 2019, 13:136–141 (<https://doi.org/10.1016/j.coisb.2018.12.005>)
7. Agnetta D, Badalamenti F, Colloca F, D'Anna G, Di Lorenzo M, Fiorentino F, Garofalo G, Gristina M., Labanchi L., Patti B., Pipitone C., Solidoro C., **Libralato S.** (2019) Benthic-pelagic coupling mediates interactions in Mediterranean mixed fisheries: An ecosystem modeling approach. *PLoS ONE* 14(1): e0210659. <https://doi.org/10.1371/journal.pone.0210659>
8. **Libralato S.**, Colloca F., Gücü A.C., Maravelias C.D., Solidoro C., Villasante S. and Cardinale M. (2018) Editorial: Challenges and Opportunities for the EU Common Fisheries Policy Application in the Mediterranean and Black Sea. *Front. Mar. Sci.* 5:299. doi: 10.3389/fmars.2018.00299
9. Riccioni, G., Stagioni, M., Piccinetti, C., & **Libralato, S.** (2018). A metabarcoding approach for the feeding habits of European hake in the Adriatic Sea. *Ecology and evolution*, 8(21), 10435-10447.
10. Celic, I., **Libralato, S.**, Scarcella, G., Raicevich, S., Mar ceta, B., and Solidoro, C. (2018) Ecological and economic effects of the landing obligation evaluated using a quantitative ecosystem approach: a Mediterranean case study. *ICES Journal of Marine Science*, doi:10.1093/icesjms/fsy069.
11. Schlenger A.J., **Libralato S.**, Ballance L. T. (2018). Temporal Variability of Primary Production Explains Marine Ecosystem Structure and Function. *Ecosystems*, 1-15
12. Carlucci, R., Bandelj, V., Ricci, P., Capezzuto, F., Sion, L., Maiorano, P., Tursi A., Solidoro C. & **Libralato, S.** (2018). Exploring spatio-temporal changes in the demersal and benthopelagic assemblages of the north-western Ionian Sea (central Mediterranean Sea). *Marine Ecology Progress Series*, 598, 1-19.
13. Endrédi A., Senánszky V., **Libralato S.**, Jordán F., 2018. Food web dynamics in trophic hierarchies. *Ecological Modelling*, 368: 94-103 (<https://doi.org/10.1016/j.ecolmodel.2017.11.015>)
14. Fortibuoni, T., **Libralato S.**, Ameri E., Giovanardi O., Solidoro C., Raicevich S., 2017. Fish and fishery historical data since the 19th century in the Adriatic Sea, Mediterranean. *Sci. Data* 4:170104 doi: 10.1038/sdata.2017.104 (2017).
15. Colloca F., Scarcella G. and **Libralato S.** 2017. Recent Trends and Impacts of Fisheries Exploitation on Mediterranean Stocks and Ecosystems. *Frontiers in Marine Science* 4:244. doi: 10.3389/fmars.2017.00244
16. Fortibuoni T., Giovanardi O., Pranovi F., Raicevich S., Solidoro C. and **Libralato S.** (2017). Analysis of Long-Term Changes in a Mediterranean Marine Ecosystem Based on Fishery Landings. *Front. Mar. Sci.* 4:33. doi: 10.3389/fmars.2017.00033
17. Fortibuoni T., Giovanardi O., Pranovi F., Raicevich S., Solidoro C. and **Libralato S.** (2017). Corrigendum: Analysis of Long-Term Changes in a Mediterranean Marine Ecosystem Based on Fishery Landings *Front. Mar. Sci.* 4:2014. doi: 10.3389/fmars.2017.00204
18. Tam, J. C., Link, J. S., Rossberg, A. G., Rogers, S. I., Levin, P. S., Rochet, Marie-Joëel., Bundy, A., Belgrano, A., **Libralato, S.**, Tomczak, M., van de Wolfshaar, K., Pranovi, F., Gorokhova, E., Large, S. I., Niquil, N., Greenstreet, S. P. R., Druon, Jean-N., Lesutiene, J., Johansen, M., Preciado, I., Patricio, J., Palialexis, A., Tett, P., Johansen, G. O., Houle, J., and Rindorf, A. 2017. Towards ecosystem-based management: identifying operational food-web indicators for marine ecosystems. – *ICES Journal of Marine Science*, 74: 2040–2052.

19. **Libralato S.**, 2016. Trophic amplitude as an indicator of aquatic food web complexity. *Vie et Milieu - Life and Environment* 2016, 66 (3-4): 315-323
20. Sebastian Villasante, Francisco Arreguin-Sanchez, Sheila Heymans, **Simone Libralato**, Chiara Piroddi, Villy Christensen, Marta Coll, 2016. Modelling marine ecosystems using the Ecopath with Ecosim food web approach: New insights to address complex dynamics after 30 years of developments. *Ecological Modelling*, 331: 1-4.
21. D'Alelio D., **Libralato S.**, Wyatt T., Ribera D'Alcala M., 2016. Ecological-network models link diversity, structure and function in the plankton food-web. *Scientific Reports* 6, 21806; doi: 10.1038/srep21806.
22. Link J., Pranovi F., **Libralato S.**, Coll M., Christensen V., Solidoro C., Fulton B., 2015. Emergent Properties Delineate Marine Ecosystem Perturbation and Recovery. *Trends in ecology and Evolution*, 30: 649-661
23. Longo C., Hornborg S., Bartolino V., Tomczak M. T., Ciannelli L., **Libralato S.**, Belgrano A., 2015. Role of trophic models and indicators in current marine fisheries management. *Marine Ecology Progress Series*, 538: 257–272.
24. Piroddi, C., Moutopoulos, D. K., Gonzalvo, J., & **Libralato, S.** (2016). Ecosystem health of a Mediterranean semi-enclosed embayment (Amvrakikos Gulf, Greece): Assessing changes using a modeling approach. *Continental Shelf Research*, 121, 61-73.
25. Coll M., Akoglu E., Arreguín-Sánchez F., Fulton E.A., Gascuel D., Heymans J.J., **Libralato S.**, Mackinson S., Palomera I., Piroddi C., Shannon L., Steenbeek J., Villasante S., Christensen V., 2015. Modelling dynamic ecosystems: venturing beyond boundaries with the Ecopath approach. *Reviews in Fish Biology and Fisheries*, 25: 1-12. **Libralato S.**, Caccin A. and Pranovi F., 2015. Modeling species invasions using thermal and trophic niche dynamics under climate change. *Frontiers in Marine Science*, 2: 29. doi: 10.3389/fmars.2015.00029
26. Akoglu E., **Libralato S.**, Salihoglu B., Oguz T., and Solidoro C. 2015. EwE-F 1.0: an implementation of Ecopath with Ecosim in Fortran 95/2003 for coupling and integration with other models. *Geoscientific Model Development* 8 (8), 2687-2699
27. **Libralato S.**, Pranovi F, Stergiou KI, Link J, 2014. INTRODUCTION: Trophodynamics in marine ecology: 70 years after Lindeman. *Marine Ecology Progress Series*, 512: 1-7.
28. Pranovi F, **Libralato S.**, Zucchetto M, Link J, 2014. Biomass accumulation across trophic levels: analysis of landings for the Mediterranean Sea. *Marine Ecology Progress Series* 512: 201-216.
29. Moutopoulos D.K., **Libralato S.**, Solidoro C., Erzini K., Stergiou K.I., 2014. Effect of landings data disaggregation on ecological indicators. *Marine Ecology Progress Series*, 509: 27–38
30. Heymans J.J., Coll M., **Libralato S.**, Morissette L., Christensen V., 2014. Global Patterns in Ecological Indicators of Marine Food Webs: A Modelling Approach. *PlosOne* 9(4): e95845. doi:10.1371/journal.pone.0095845
31. Akoglu E., Salihoglu B., **Libralato S.**, Oguz T., Solidoro C., 2014. An indicator-based evaluation of Black Sea food web dynamics during 1960–2000. *Journal of Marine Systems* 134: 113-125
32. Moutopoulos D.K., **Libralato S.**, Solidoro C., Stergiou K.I., 2013. Toward an ecosystem approach to fisheries in the Mediterranean Sea: Multigear/multi-species implications from an ecosystem model of the Greek Ionian Sea. *Journal of Marine Systems* 113-114: 13-26
33. Angelini R., de Morais R.J., Catella A.C., Resende E.K., **Libralato S.** 2013. Aquatic food webs of the oxbow lakes in the Pantanal: A new site for fisheries guaranteed by alternated control? *Ecological Modelling* 253: 82-96.
34. Coll M., **Libralato S.**, Pitcher T.J., Solidoro C., Tudela S., 2013. Sustainability implications of honouring the Code of Conduct for Responsible Fisheries. *Global Environmental Change - Human and policy dimensions*, vol. 23, p. 157-166, ISSN: 0959-3780, doi: <http://dx.doi.org/10.1016/j.gloenvcha.2012.10.017>
35. Coll M., **Libralato S.**, 2012. Contributions of food web modelling to the ecosystem approach to marine resource management in the Mediterranean Sea. *Fish and Fisheries*, 13, 60–88. DOI: 10.1111/j.1467-2979.2011.00420.x
36. Tadesse F., Schagerl M., Mengistou S., **Libralato S.**, 2011. Food web structure and trophic interactions of the tropical highland lake Hayq, Ethiopia. *Ecological Modelling* 222: 804–813
37. Fortibuoni T., **S. Libralato, S.** Raicevich, O. Giovanardi and C. Solidoro, 2010. Coding early naturalists' accounts into long-term fish community changes in the Adriatic Sea (1800-2000). *PlosOne*, 5(11): e15502. doi:10.1371/journal.pone.0015502



38. **Libralato S.**, Coll. M., Tempesta M., Santojanni A., Spoto M., Palomera I., Arneri E., Solidoro C., 2010. Food-web traits of protected and exploited areas of the Adriatic Sea. *Biological Conservation* 143: 2182–2194.
39. Solidoro C., Cossarini G., **Libralato S.**, Salon S., 2010. Remarks on the redefinition of system boundaries and model parameterization for downscaling experiments. *Progress in Oceanography*, 84: 134–137.
40. **Libralato S.**, Solidoro C., 2010. Comparing methods for building trophic spectra of ecological data. *ICES Journal of Marine Science*, 67: 426-434.
41. Solidoro C., Bandelj V., Cossarini G., **Libralato S.**, Melaku Canu D., 2009. Challenges for ecological modelling in a changing world: global changes, sustainability and ecosystem based management. *Ecological Modelling*, 220: 2825-2827.
42. **Libralato S.**, Solidoro C., 2009. Bridging biogeochemical and food web models for an End-to-End representation of marine ecosystem dynamics: the Venice lagoon case study. *Ecological Modelling*, 220: 2960-2971.
43. Mora C., Myers R.A., Coll M., **Libralato S.**, Pitcher T.J., Sumaila R.U., Zeller D., Watson R., Gaston K.J., Worm B. 2009. Management effectiveness of world's marine fisheries. *PlosBiology*, 7(6): e1000131. (1-11) doi:10.1371/journal.pbio.1000131
44. Pauly D., Graham W., **Libralato S.**, Morrissette L., Palomares M.L.D., 2009. Jellyfish in ecosystems, online databases, and ecosystem models. *Hydrobiologia*, 616: 67-85.
45. Coll M., **Libralato S.**, Tudela S., Palomera I., Pranovi F. 2008. Ecosystem overfishing in the ocean. *PlosOne*, 3 (12): e3881. doi:10.1371/journal.pone.0003881
46. Cossarini G., **Libralato S.**, Salon S., Gao X., Giorgi F., Solidoro C. 2008. Downscaling experiment for the lagoon of Venice. Part II: potential effects of changes in precipitation on biogeochemical properties. *Climate Research*, 38: 43-59.
47. Salon S., Cossarini G., **Libralato S.**, Gao X., Solidoro C., Giorgi F., 2008. Downscaling experiment for the lagoon of Venice. Part I: validation of the present-day precipitation climatology. *Climate Research*, 38: 31-41.
48. Jordán F., Okey T.A., Bauer B., **Libralato S.**, 2008. Identifying important species: linking structure and function in ecological networks. *Ecological Modelling*, 216: 75-80.
49. **Libralato S.**, Solidoro C., 2008. A bioenergetic growth model for comparing *Sparus aurata*'s feeding experiments. *Ecological Modelling*, 214 (2-4): 325-337.
50. Raccanelli S., **Libralato S.**, Favotto M., 2008. On the detoxification of benthic bivalve contaminated by POPs: Insights from experimental and modelling approaches. *Environmental Chemistry Letters*, 6: 251-258.
51. Lorenzon S., Giulianini P.G., **Libralato S.**, Martinis M., Ferrero E.A., 2008. Stress effect of two different transport systems on the physiological profiles of the crab *Cancer pagurus*. *Aquaculture*, 278: 156–163.
52. **Libralato S.**, Coll M., Tudela S., Palomera I. and Pranovi F., 2008. Novel index for quantification of ecosystem effects of fishing as removal of secondary production. *Marine Ecology Progress Series*, 355: 107-129. doi: 10.3354/meps07224
53. **Libralato S.**, Christensen V., Pauly D., 2006. A method for identifying keystone species in food web models. *Ecological Modelling*, Volume 195, Issue 3-4: 153-171.
54. **Libralato S.**, Torricelli P., Pranovi F., 2006. Exergy as ecosystem indicator: an application to the recovery process of marine benthic communities. *Ecological Modelling*, 192/3-4: 571-585.
55. **Libralato S.**, Pranovi F., Raicevich S., Da Ponte F., Giovanardi O., Pastres R., Torricelli P., Mainardi D., 2004. Ecological stages of the Venice Lagoon analysed using landing time series data. *Journal of Marine Systems*, 51:331-344.
56. Granzotto A., **Libralato S.**, Pranovi F., Raicevich S., Giovanardi O., 2004. Comparison between artisanal and industrial fisheries using ecosystem indicators. *Chemistry and Ecology*, 20 (supplement 1): S435-S449.
57. Brando V.E., Ceccarelli R., **Libralato S.** and Ravagnan G., 2004. Assessment of environmental management effects in a shallow water basin using mass balance models. *Ecological Modelling*, 172: 213-232.

58. Pranovi F., Libralato S., Raicevich S., Granzotto A., Pastres R., Giovanardi O., 2003. Mechanical clam dredging in Venice Lagoon: ecosystem effects evaluated with a trophic mass-balance model. *Marine Biology*, 143: 393-403.
59. Libralato S., R. Pastres, F. Pranovi, S. Raicevich, A. Granzotto, O. Giovanardi and P. Torricelli, 2002. Comparison between the energy flow networks of two habitats in the Venice Lagoon. *Marine Ecology PSZN*, 23: 228-236.
60. Pastres R., Pranovi F., Libralato S., Malavasi S. and P. Torricelli, 2002. 'Birthday effect' on the adoption of alternative mating tactics in *Zosterisessor ophiocephalus*: evidence from a growth model. *Journal of the Marine Biological Association of the United Kingdom*, 82: 333-337.

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**Books or chapters**

61. **Libralato S.**, Colloca, F., Gücü, A. C., Maravelias, C. D., Solidoro, C., Villasante, S., Cardinale, M., eds. (2019). Challenges and Opportunities for the EU Common Fisheries Policy Application in the Mediterranean and Black Sea. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-684-0
62. **Libralato S.**, 2019. Keystone Species and Keystoneness. In: Brian Fath (Eds), *Encyclopedia of Ecology (Second Edition)*, Reference module in Earth Systems and Environmental Sciences. 2019, Volume 3, pp: 451-456 ; ISBN 9780444641304, <https://doi.org/10.1016/B978-0-12-409548-9.10570-6>.
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