

CURRENT POSITION: Senior Scientist Associate CNR-ISMAR, Lerici, Italy

EDUCATION

Ph.D. in Oceanography, Scripps Institution of Oceanography, University of California San Diego, USA, 1992.

Master of Science in Oceanography, Scripps Institution of Oceanography, USA, 1987.

Laurea Cum Laude in Biological Sciences, University of Rome "La Sapienza", Italy, 1983.

RESEARCH INTERESTS

I have worked for more than 20 years in the field of climate and global change impacts on marine populations (especially zooplankton), including interdisciplinary connections between biological oceanography, physical oceanography, and climatology. In particular, my research has focused on the impacts of climate oscillations on marine biodiversity, tipping points, and marine ecological shifts. These abrupt changes involve entire ecosystems, often modifying ecosystem services and carrying high societal impacts. Given the



current global change scenarios, it is likely that there will be more abrupt shifts in the coming decades (<https://www.nature.com/articles/s41558-019-0420-1>), thus there is need to foresee and adapt-to them. I am currently interested in linking shifts in marine ecosystems and societies, and climate change science to policy actions. Additional interests include coastal management, social-ecological relationships, climate change advocacy and the intersection between art and scientific research.

IN EVIDENCE

Co-Chair for ASLO, Ocean Science Meeting (OSM) 2020: "For a Resilient Planet", San Diego, CA, USA, 16–21 February 2020. OSM is the flagship conference for the ocean sciences, co-sponsored by the American Geophysical Union (AGU), the Association for the Sciences of Limnology and Oceanography (ASLO), and The Oceanography Society (TOS), <https://www.aslo.org/meetings/>.

Vice-Chair for ASLO, OSM 2018 , 11-16 February 2018, Portland, Oregon, USA.

Lead Guest Editor, Theme Issue "Marine regime shifts around the globe: theory, drivers and impacts", Philosophical Transactions of the Royal Society B, 2015, <http://rstb.royalsocietypublishing.org/content/370/1659.toc>.

Keynote Speaker, 50th European Marine Biology Symposium, Helgoland, Germany, 21-25 September 2015. Topic: Marine regime shifts around the world: non-linear responses to increasing challenges.

Marie Curie experienced Fellow, SAHFOS, Plymouth, UK, 2012-2014.

Branch Director, National Research Council (CNR), ISMAR, Branch of Coastal and Lagoon Ecosystems, Lesina, Italy, 2003–2005.

Dean John Knauss Sea Grant Marine Policy Fellow, National Science Foundation, USA, 1992.

Fulbright Scholar, Scripps Institution of Oceanography, San Diego, USA, 1985.

BEYOND THE SCIENTIFIC COMMUNITY:

Member, Technical Scientific Committee, Associazione Professionale Italiana di Danza MovimentoTerapia (APID; Italian Professional Association of Dance Movement Therapy), 2022-present. <https://www.apid.it/apid/organismi-e-organigramma/>

Member, Scientific Committee, Legambiente, topic: marine conservation and protection, <https://www.legambiente.it/>

Invited speaker, APID National Conference, 12 aprile 2024 “*Blu come oceano: scienza, arte e cambiamento climatico - Come l'integrazione di arte e scienza può sostenere l'umanità durante la sfida climatica*”(Blue as the Ocean: Science, Art, and Climate Change - How the Integration of Art and Science Can Support Humanity During the Climate Challenge), <https://www.apid.it/primi-avvisi-convegno-nazionale-apid-2024/>

Invited speaker, Rotary Club Alba, 13 dicembre 2022 “*Oceani e cambiamenti climatici*” (Oceans and climate change), https://www.youtube.com/channel/UCFta2taTSSyp_ivpeOHPgCQ/streams ,
<https://www.youtube.com/watch?v=kiL98RLIQ-c&t=12s>

PREVIOUS POSITIONS

Senior Researcher, CNR ISMAR, La Spezia, Italy, 2007-2023.

Visiting Scientist, Plymouth University, UK, 2008-2017.

Marie Curie experienced Fellow, SAHFOS, Plymouth, UK, 2012-2014.

Branch Director - CNR ISMAR, Lesina, Italy 2003-2005.

Researcher, CNR ISMAR, Lesina, 2001-2005, then at CNR ISMAR La Spezia.

Researcher, ENEA S. Teresa, La Spezia, Italy, 1997-1999.

Research Assistant Professor, 1993-1996, Marine Sciences Research Center, State University of New York at Stony Brook, USA, and then Adjunct Research Professor to 2001.

Dean John Knauss Sea Grant Marine Policy Fellow, at the National Science Foundation (NSF), Department of Oceanography, Washington, DC, USA, 1992.

California Sea Grant Trainee Fellow, Scripps Institution of Oceanography, 1986-1991.

Fulbright Scholar, Scripps Institution of Oceanography, 1985.

FULL PUBLICATION LIST

https://bit.ly/Conversi_CNR_Iris; <https://www.researchgate.net/profile/Alessandra-Conversi>;

https://scholar.google.com/citations?hl=en&user=pYotp_QAAAAJ&view_op=list_works

5 SELECTED PAPERS

Lenton TM, ..., Conversi A, ... et al. (2024). Remotely sensing potential climate change tipping points across scales. *Nature communications*, 15(1), 343. <https://doi.org/10.1038/s41467-023-44609-w>.

Wood RA, ..., Conversi A... et al. (2024). Opportunities for Earth Observation to Inform Risk Management for Ocean Tipping Points. *Surv Geophys* . <https://doi.org/10.1007/s10712-024-09859-3>

Swingedouw D, ..., .. and Conversi A (2020). Early Warning from Space for a Few Key Tipping Points in Physical, Biological, and Social-Ecological Systems. *Surv Geophys* 41, 1237–1284.
<https://doi.org/10.1007/s10712-020-09604-6>

Beaugrand, Conversi, et al (2019). Prediction of unprecedented biological shifts in the global ocean, *Nature Climate Change* 9: 237–243. DOI: 10.1038/s41558-019-0420-1

Press Releases related to the article by Beaugrand, Conversi et al (2019):

- TV Interview, SKY TG24 08/06/2019, <http://www.cnrweb.tv/le-temperature-dei-mari-e-i-loro-effetti/>
<https://www.cnr.it/it/comunicato-stampa/8703/cambiamenti-oceanici-mai-visti>
- https://www.adnkronos.com/sostenibilita/risorse/2019/04/30/studio-tra-cambiamenti-oceanici-mai-visti_tyMPdAeEzByHKiXSu9R5DM.html
- https://www.repubblica.it/ambiente/2019/04/30/news/clima_tra_il_2010_e_2015_cambiamenti_oceanici_mai_visti_prima-225184847/

Conversi A, et al, 2015. A holistic view of marine regime shifts. *Philosophical Transactions of the Royal Society B*, 370: 20130279. Theme Issue Marine regime shifts around the globe: theory, drivers, and impacts, edited by A. Conversi, C. Möllmann, C. Folke and M. Edwards, ISSN 0962-8436,
<http://dx.doi.org/10.1098/rstb.2013.0279>.

Press Releases related to the works by Conversi and co-authors in *Philosophical Transactions of the Royal Society B* (2015), Theme Issue - *Marine regime shifts around the globe: theory, drivers, and impacts*:

- MARIE CURIE ALUMNI, <https://www.mariecuriealumni.eu/news/dr-alessandra-conversi-mcaa-member-helps-pull-together-comprehensive-overview-changes-global>,
- PLYMOUTH UNIVERSITY, <https://www.plymouth.ac.uk/news/plymouth-associate-scientist-leads-global-study-on-marine-regime-shifts>,
- CNR, <https://www.cnr.it/it/comunicato-stampa/6576/ecosistemi-marini-piu-che-l-inquinamento-pote-il-riscaldamento>
- LE SCIENZE,
http://www.lescienze.it/lanci/2015/01/08/news/ecosistemi_marini_pi_che_l_inquinamento_pot_il_riscaldamento-2439173/?ref=nl-Le-Scienze_09-01-2015.

ADDRESS

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