

## PERSONAL INFORMATION

### Tiziana Ciuffardi

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🌐 <https://www.researchgate.net/profile/Tiziana-Ciuffardi>  
<https://orcid.org/0000-0003-2512-7991>

Sex Female | *Date of birth* 29/04/1980 | *Nationality* Italian

EPR  Level II Researcher and Technologist

## WORK EXPERIENCE

December 2012-Present

### Permanent Position – Marine research Scientist

ENEA, Environmental and Energy Research Institute, La Spezia (Italy)

- Research in physical oceanography (general circulation studies and dynamics); Analysis and processing of environmental data; Responsible for the Hydrology Laboratory of the ENEA S. Teresa Centre; ENEA representative for the LTER (Long Term Ecological Research Network) Eastern Ligurian Sea Site (<http://www.lteritalia.it/?q=siti/mar-ligure-orientale>); ENEA representative for the LabMare Project of the Ligurian District of Marine Technologies (DLTM); ENEA representative within the EMSO JRU-IT and alternate in the Italian Oceanographic Commission (COI); part of the Secretary for the Italian National Ocean Decade Committee (CND-IT).

Business or sector Research

March 2012-December 2012

### Senior Metocean Specialist

RAMBOLL, London UK (<http://www.ramboll.com>)

- Metocean data analysis and processing for Renewable Energy Sector

Business or sector Offshore Energy

October 2011-March 2012

### Metocean Specialist

Total E&P, Paris (France, <http://www.total.com>)

- Metocean Specialist for the Geotechnics/ Geophysics/Metocean/Geomatics Department

Business or sector Oil&Gas

August 2006-September 2011

### Ocean Engineer

Saipem Energy Services, Saipem Spa, Snamprogetti Spa, Fano (Italy, <http://www.eni.com>; <http://www.saipem.com>)

- Metocean data analysis and processing in the Oil&Gas Market

Business or sector Oil&Gas

February 2006-August 2006

### Junior Meocean Specialist

DEAM. Srl, Pisa (Italy)

- Post-lauream paid Internship

Business or sector Shore Protection

## EDUCATION AND TRAINING

2000-2006

Degree in Marine Environmental Science (Summa cum laude)

University of Pisa

EQF level 6

2013

Summer course on Operational Oceanography in the 21st Century with a focus on the Coastal Seas

2007

The Physical Oceanography Unit of the IOI-Malta Operational Centre at the University of Malta

Summer School “Introduction to Computational Fluid Dynamics (CFD)”

Von Karman Institute, Bruxelles, Belgium

- 2006 Intensive Course “Wave-resolving and Wave-averaging models  
Università di Genova, Dipartimento di Ingegneria Ambientale, Italy
- 2002 Training Period « BIOPROME: Biodiversité des Producteurs  
Primaires en Méditerranée (Macrophytes, Phytoplancton) »  
Laboratoire Oceanologique Arago (Banyuls-sur-Mer, France)

#### PERSONAL SKILLS

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- Mother tongue(s) Italian
- Other language(s) English (proficient user) / French (independent user)
- Project Management skills Principal Investigator (PI) and Project Manager for ENEA of NRRP **RAISE** Project-Spoke 3 (2022-2026)  
PI for ENEA of **SNAPSHOT** Project (2019-2023)  
PI for ENEA of **IDEM** Project (2017-2019)
- Other skills Substantial programming experience in Fortran 90 and Matlab.  
Oceanographic Softwares: MIKE 21 SW, MIKE zero, SBeach, Genesis, Surfer, PHOENICS, Ocean Data View  
Video/image-editing softwares: Grapher, Premiere, Corel Draw, Microstation, Origin  
General: Microsoft Office package, Latex

#### ADDITIONAL INFORMATION

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- Projects **PNRR – RAISE** “Robotics and AI for Socio-economic Empowerment” 2022 - on going  
**MACMAP** (A Multidisciplinary Analysis of Climate change indicators in the Mediterranean And Polar regions) 2020 - 2025  
**MINKE** (Metrology for Integrated Marine Management and Knowledge-Transfer Network)  
HORIZON 2020 2021 – 2025  
**SNAPSHOT** (Synoptic Assessment of Human Pressures on key Mediterranean Hot Spots) 2019-2021  
**IDEM** (Implementation of the MSFD to the dEep Mediterranean sea) DG-Environment 2017-2019  
**RIMA** (“Sviluppo di nuove metodologie e software per un rete di estrapolazione all’indietro integrata della zona del Mare Mediterraneo”) 2012 - 2017  
**RITMARE**, la Ricerca Italiana per il MARE (WP4-AZ1) MIUR 2012-2016
- Publications **Ciuffardi, T.**, Becagli, S., Raiteri, G., Bordone, A. et al.: Physical and biogeochemical variability in the Gulf of La Spezia (Eastern Ligurian Sea, Italy): insights from a new high-resolution coastal observatory, *Journal of Marine Systems*, Volume 252, 2025, 104156, ISSN 0924-7963, <https://doi.org/10.1016/j.jmarsys.2025.104156>.
- Belgacem, M., Schroeder, K., Lauvset, S. K., Álvarez, M., Chiggiato, J., Borghini, M., Cantoni, C., **Ciuffardi, T.**, and Sparnocchia, S.: A consistent regional dataset of dissolved oxygen in the Western Mediterranean Sea (2004–2023): O2WMED, *Earth Syst. Sci. Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2024-365>, accepted in July 20025 for the journal ESSD.
- Ciuffardi, T.**, Lo Bue, N., Raiteri, G., Marullo, S., Artale, V.: New Insights into Tyrrhenian Sea Warming and Heat Penetration through Long-Term Expendable Bathythermograph Data. *J. Mar. Sci. Eng.*, 12, 1756. <https://doi.org/10.3390/jmse12101756> (2024).
- Ciuffardi, T.**, Kokkini, Z., Berta, M., Locritani, M., Bordone, A., Delbono, I., Borghini, M., Demarte, M., Ivaldi, R., Pannacciulli, F., Vetrano, A., Marini, D., and Caprino, G.: Deep water hydrodynamic observations around a Cold-Water Coral habitat in a submarine canyon in the

Eastern Ligurian Sea (Mediterranean Sea), *Earth Syst. Sci. Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2022-466> (2023).

Artale, V., **Ciuffardi, T.**, L oBue, N., Raiteri, G., and Reseghetti, F.: Thermal penetration evidence recorded since 1999 in the deep Tyrrhenian Sea (Mediterranean Sea), EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-17193, <https://doi.org/10.5194/egusphere-egu23-17193> (2023).

Nardini, R.; Picco, P.; **Ciuffardi, T.**; Bozzano, R.; Demarte, M.; Raiteri, G.; Bordone, A.; Pensieri, S. Marine GIS as a Tool to Support Backscatter Data Analysis for Zooplankton Investigations. *J. Mar. Sci. Eng.* 11, 22. <https://doi.org/10.3390/jmse11010022> (2023).

Bordone, A., **Ciuffardi T.**, Raiteri G., Reseghetti F. "Use of ADCP acoustic backscatter to estimate seawater total suspended solids in continuous along a transect. Test case in a near shore area (Ligurian Sea, La Spezia Gulf) RT-2022-05-ENEA (2022)

de Sabata, E., Bordone, A., Belluscio, A., **Ciuffardi, T.**, Iacono, R., Mancini, G., Napolitano, E., Palma, M., Raiteri, G. MedFever : An expanding network of citizen-run observatories monitoring shallow coastal underwater temperatures in Italy (2022) SEANO. <https://doi.org/10.17882/86403>

Bordone, A., **Ciuffardi T.**, Raiteri G., Reseghetti F., Cerrati G., Conte F., Penneccchi F. "ENEA internal best practices for seawater total suspended solids measurement: experimental assessment of measurement uncertainty and correlation with turbidity. Test case in a near shore area (Ligurian Sea, La Spezia Gulf) (2021) RT-2021-14-ENEA

Ragazzola, F., Kolzenburg R., Adani M., Bordone A., Cantoni C., Cerrati G., **Ciuffardi T.**, Cocito S., Luchetta A., Montagna P., et al. "Carbonate chemistry and temperature dynamics in an alga dominated habitat", *Regional Studies in Marine Science*, Volume 44, (2021)

Fanelli, E., Bianchelli S., Fogliani F., Canals M., Castellan G., Güell-Bujons Q., Galil B., Goren M., Evans J., Fabri M.-C., Vaz S., **Ciuffardi T.**, et al. "Identifying Priorities for the Protection of Deep Mediterranean Sea Ecosystems Through an Integrated Approach", *Frontiers in Marine Science*, Volume 8 (2021)

Bordone, A., **Ciuffardi T.**, Raiteri G., Schirone A. Bozzano R., Pensieri S., Penneccchi F., and Picco P. "Improved current estimates from spar buoy-mounted ADCP measurement station: A case study in the Ligurian sea", *Journal of Marine Science and Engineering*, Volume 9, Number 5, (2021)

Aguzzi, J., López-Romero D., Marini S., Costa C., Berry A., Chumbinho R., **Ciuffardi T.**, Fanelli E., Pieretti N., Del Río J., et al. "Multiparametric monitoring of fish activity rhythms in an Atlantic coastal cabled observatory", *Journal of Marine Systems*, Volume 212, (2020)

Danovaro, R., Fanelli E., Canals M., **Ciuffardi T.**, Fabri M.-C., Taviani M., Argyrou M., Azzurro E., Bianchelli S., Cantafaro A., et al. "Towards a marine strategy for the deep Mediterranean Sea: Analysis of current ecological status", *Marine Policy*, Volume 112, (2020)

**Ciuffardi, T.**, Berta M., Bordone A., Borghini M., Celentano P. et al. "A new multidisciplinary observatory in the Eastern Ligurian Sea (NW Mediterranean Sea): a combination of deep-sea and coastal measurements". EGU General Assembly 2020, EGU2020-16533, <https://doi.org/10.5194/egusphere-egu2020-16533>

Napolitano, E., Iacono Roberto, **Ciuffardi T.**, Reseghetti F., Poulain P.-M., and Notarstefano G. "The Tyrrhenian Intermediate Water (TIW): Characterization and formation mechanisms", *Progress in Oceanography*, Volume 170, p.53-68, (2019)

Aguzzi J., Fanelli E., **Ciuffardi T.**, Schirone A., De Leo F.C., Doya C., Kawato M., Miyazaki M., Furushima Y., Costa C., and Fujiwara Y. "Faunal activity rhythms influencing early community succession of an implanted whale carcass offshore Sagami Bay, Japan", *Scientific Reports* 8(1), DOI: 10.1038/s41598-018-29431-5 (2018)

Raiteri G., Bordone A., **Ciuffardi T.**, Penneccchi F. "Uncertainty evaluation of CTD measurements: a metrological approach to water-column coastal parameters in the Gulf of La

Spezia area”, Measurement: Journal of the International Measurement Confederation 126, 156 – 163, DOI: 10.1016/j.measurement.2018.05.058 (2018)

**Ciuffardi T.**, Bordone A., Raiteri G., “Monitoraggio dei parametri fisici della colonna d'acqua: Rapporto tecnico sui dati disponibili dal 2009 presso l'Osservatorio ambientale nell'area di tutela marina del Parco di Porto Venere. Rapporto tecnico sulle attività 2009-2017” (ENEA, 2017-08)

**Ciuffardi T.**, Bordone A., Cerrati G., Schirone A., Raiteri G., “Monitoraggio dei parametri fisici della colonna d'acqua: Rapporto tecnico sui dati disponibili dal 2009 presso l'Osservatorio ambientale nell'area di tutela marina del Parco di Porto Venere. Rapporto tecnico sulle attività 2009-2015” (ENEA, 2017-08)

Aguzzi J., Fanelli E., **Ciuffardi T.**, Schirone A., Craig J. et al., “Inertial bioluminescence rhythms at the Capo Passero (KM3NeT-Italia) site, Central Mediterranean Sea”, Scientific Reports, 7:44938, DOI:10.1038/srep44938 (2017)

**Ciuffardi T.**, Napolitano E., Iacono R., Reseghetti F., Raiteri G., and Bordone A., “Analysis of surface circulation structures along a frequently repeated XBT transect crossing the Ligurian and Tyrrhenian Seas” Ocean Dynamics, Volume 66, Number 6-7, p.767-783, (2016)

Locritani, M., Beranzoli L., Carmisciano C., Embriaco D., Muccini F., Favali P., Aguzzi J., Benedetti A., Liggieri L., **Ciuffardi T.**, et al., “Investigating the Mediterranean by seafloor observations: The eastern branch of the EMSO Ligurian Sea node”, MTS/IEEE OCEANS 2015 - Genova: Discovering Sustainable Ocean Energy for a New World (2015)

Pecci, L., **Ciuffardi T.**, Reseghetti F., Picco P., Fichaut M., and Schaap D. Using SeaDataNet management system to preserve the XBT data-set of the Mediterranean Sea, MTS/IEEE OCEANS 2015 - Genova: Discovering Sustainable Ocean Energy for a New World (2015)

**Ciuffardi T.**, Giuliani A., Barsanti M., Bordone A., Cerrati G., Di Nallo G., Picco P. “Quarant'anni di dati oceanografici a cura del Centro Ricerche Ambiente Marino ENEA S. Teresa: il quadro del golfo di La Spezia. Distribuzione storica dei dati dal 1973 al 2013” (ENEA, 2013-09)

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Book Chapters Povero P., **Ciuffardi T.** ...Schirone A. IT15-M MAR LIGURE (2021) <https://doi.org/10.5281/zenodo.5584759> parte del Volume: La Rete Italiana per la Ricerca Ecologica di Lungo Termine Lo studio della biodiversità e dei cambiamenti. Edizioni CNR <https://doi.org/10.5281/zenodo.5570272>

Proceedings Durin, G, Ferri, V., Pattarino, M., Iacono ML., Coisson M., Pennecci, FR., Bordone, A., Raiteri G., Ciuffardi, T., Lombardi C. (2026) Ocean Sciences Meeting, AGU. Modeling Dissolved Oxygen for coastal monitoring and forecasting.

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**Ciuffardi T.**, Pensieri S., Picco P., Schiano E., Fanelli E., Bozzano R. "From spectral analysis to modelling of zooplankton migration patterns" 40th CIESM Congress, Marseille, France, 28th October–1st November 2013

**Ciuffardi T.**, Picco P., Magaldi M. G., Grauso S., Sannino G., "Hydrodynamic and mixing variability by experimental measurements and numerical modeling", Coast Expo 2013, Ferrara, Italy, 18th-20th September 2013

Coiro D.P., Troise G., **Ciuffardi T.**, Sannino G. "Tidal current energy resource assessment: The Strait of Messina test case (2013) 4th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2013, pp. 213-220. Alghero, Italy, on the 11th - 13th June 2013. DOI: 10.1109/ICCEP.2013.6586992. ISBN: 978-146734429-6

Drago M., **Ciuffardi T.**, Giovanetti G. "Estimators of wave peak period for large return period seastates" ASME 2011 30th International Conference on Ocean, Offshore and Arctic Engineering, June 19-24, 2011, Rotterdam, The Netherlands.

Contento G., Lupieri G., Venturi M., **Ciuffardi T.** 'A wave hindcast study over the Italian Seas: Validation against field data from wave buoys' 10th Offshore Mediterranean Conference and Exhibition OMC 2011 in Ravenna, Italy, March 23-25, 2011.

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Zanella M., Mainieri V., De Filippi G., Caccavella P., **Ciuffardi T.** 'A contribution for the study of a new structure for coastal protection', MWWD 2006 - 4th International Conference on Marine Waste Water Disposal and Marine Environment; IEMES 2006 - 4th International Exhibition on Materials Equipment and Services for Coastal WWTP, Outfalls and Sealines Antalya (Turkey).

Place, date

La Spezia, 21/05/2026

Signature

