

PERSONAL INFORMATION Prof. Enrico Zambianchi, Ph.D.**EDUCATION**

- 1996 **PhD Degree in Meteorology and Physical Oceanography**
Rosenstiel School of Marine and Atmospheric Science, University of Miami, Coral Gables FL, USA
- 1988 **Laurea in Physics (summa cum laude)**
"La Sapienza" University of Rome, Italy

WORK EXPERIENCE

- 2007 - current **Full Professor of "Oceanography" and of "Transport and Diffusion in the Ocean and Atmosphere"**
Dept. of Science and Technology, "Parthenope" University of Napoli, Italy
- 2013 - current **Coordinator of the PhD programs in "Environmental Phenomena and Risks", and in "Ocean, Environment and Land Applied Science"**
"Parthenope" University of Naples, Italy
- 2008 - 2015 **Adjunct Professor**
Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Coral Gables FL, USA
- 2004 - 2015 **Adjunct Research Scientist**
Lamont-Doherty Earth Observatory of the Columbia University, Palisades NY, USA
- 2006 - 2008 **Adjunct Associate Professor**
Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Coral Gables FL, USA
- 1999 - 2007 **Associate Professor of Coastal Oceanography**
Dept. of Environmental Sciences, "Parthenope" University of Napoli, Italy
- 1999 - 2006 **Adjunct Assistant Professor**
Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Coral Gables FL, USA
- 1992 - 1999 **Assistant Professor of Oceanography and Atmospheric Physics**
Istituto Universitario Navale, Napoli, Italy
- 1990 - 1996 **Research Assistant**
Division of Meteorology and Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Coral Gables FL, USA
- 1988 - 1990 **Researcher**
Earth Observation Division of Telespazio SpA, Rome, Italy

COMMITTEES (SELECTED)

- 2008 - current **Representative of the Italian National Consortium for Marine Science (CoNISMa)**
Italian National Oceanographic Commission
- 2003 - current **Representative of Italy**
CLIVAR/CliC/SCAR Southern Ocean Region Panel
- 2013 - 2016 **Member of the Board of Directors**
Italian National Consortium for Marine Science (CoNISMa)
- 2010 - 2013 **Member of the Group of Experts**
Italian National Consortium for Marine Science (CoNISMa)

- 2005 - 2014 **Representative of the Italian National Consortium for Marine Science (CoNISMa)**
Italian National Group of Operational Oceanography, INGV
- 2005 - 2006 **Member of the Expert Group on Oceanography**
SCAR (Scientific Committee on Antarctic Research)/ SCOR (Scientific Committee on Oceanic Research)
- 2000 - 2005 **Chairman of the International Programme for Antarctic Buoys**
WCRP (World Climate Research Programme) and SCAR (Scientific Committee on Antarctic Research)
- 1997 - 2002 **Member of the Science Steering Group**
SCAR (Scientific Committee on Antarctic Research) ASPeCT Programme

AWARDS

- 2006 **Antarctica Service Medal of the United States of America**
Granted by the National Science Foundation, USA
- 1996 **Award of Academic Merit**
Granted by the University of Miami, Coral Gables FL, USA

SELECTED PUBLICATIONS OF THE LAST 5 YEARS

- P. Falco, B. Buonocore, D. Cianelli, L. De Luca, A. Giordano, I. Iermano, A. Kalampokis, S. Saviano, M. Uttieri, G. Zambardino, E. Zambianchi (2016): Dynamics and sea state in the Gulf of Naples: potential use of HF radar data in an operational oceanographic context, *J. Oper. Oceanogr.*, doi: 10.1080/1755876X.2015.1115633
- Iermano, I., Moore, A. M., & Zambianchi, E. (2016). Impacts of a 4-dimensional variational data assimilation in a coastal ocean model of southern Tyrrhenian Sea. *Journal of Marine Systems*, 154, 157-171, doi: 10.1016/j.jmarsys.2015.09.00
- Pisano, A., De Dominicis, M., Biamino, W., Bignami, F., Gherardi, S., Colao, F., ... & Zambianchi, E. (2016). An oceanographic survey for oil spill monitoring and model forecasting validation using remote sensing and in situ data in the Mediterranean Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*. doi: 10.1016/j.dsr2.2016.02.013
- Carlson, D. F., Griffa, A., Zambianchi, E., Suaria, G., Corgnati, L., Magaldi, M. G., ... & Celentano, P. (2016). Observed and modeled surface Lagrangian transport between coastal regions in the Adriatic Sea with implications for marine protected areas. *Continental Shelf Research*, 118, 23-48.
- Falco, P., Trani, M., & Zambianchi, E. (2016). Water mass structure and deep mixing processes in the Tyrrhenian Sea: Results from the VECTOR project. *Deep Sea Research Part I: Oceanographic Research Papers*, 113, 7-21.
- Kalampokis A., Uttieri, M., Poulain, P.-M. & Zambianchi, E. (2016). "Validation of HF radar-derived currents in the Gulf of Naples with Lagrangian data". *IEEE Geoscience and Remote Sensing Letters*, 13, 10, 1452-1456.
- Rivetti, I., Boero, F., Frascchetti, S., Zambianchi, E., & Lionello, P. (2017). Anomalies of the upper water column in the Mediterranean Sea. *Global and Planetary Change*, 151, 68-79.
- Zambianchi, E., Trani, M., & Falco, P. (2017). Lagrangian transport of marine litter in the Mediterranean Sea. *Frontiers in Environmental Science*, 5, 5. doi: 10.3389/fenvs.2017.00005
- Ranalli, M., Lagona, F., Picone, M., & Zambianchi, E. (2017). Segmentation of sea current fields by cylindrical hidden Markov models: a composite likelihood approach. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, doi:10.1111/rssc.12240
- Rubio, A., Mader, J., Corgnati, L., Mantovani, C., Griffa, A., Novellino, A., ... & Lorente, P. (2017). HF Radar Activity in European Coastal Seas: Next Steps toward a Pan-European HF Radar Network. *Frontiers in Marine Science*, 4, 8, doi: 10.3389/fmars.2017.00008

- Corrado, R., Lacorata, G., Palatella, L., Santoleri, R., & Zambianchi, E. (2017). General characteristics of relative dispersion in the ocean. *Scientific Reports*, 7: 46291, DOI: 10.1038/srep46291
- Cianelli, D., Sarno, D., D'Alelio, D., Zingone, A., Zambianchi, E., Uttieri, M., & d'Alcalà, M. R. (2017). Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system. *Scientific Reports*, 7(1), 15868, DOI: 10.1038/s41598-017-15880-x
- B. Buongiorno Nardelli, S. Guinehut, N. Verbrugge, Y. Cotroneo, E. Zambianchi, D. Iudicone (2017). Southern Ocean Mixed-Layer Seasonal and Interannual Variations From Combined Satellite and In Situ Data. *J. Geophys. Res. Oceans*, 122. DOI: 10.1002/2017JC013314
- Manfra, L., Cianelli, D., Di Mento, R., & Zambianchi, E. (2018). Numerical-ecotoxicological approach to assess potential risk associated with oilfield production chemicals discharged into the sea. *Environmental Science and Pollution Research*, 25:18213–18219. Doi: 10.1007/s11356-018-2355-x
- Sciascia, R., Berta, M., Carlson, D. F., Griffa, A., Panfili, M., Mesa, M. L., Magaldi, M. G., D'Adamo, R., Paziienza, G., Zambianchi, E., Poulain, P.-M. (2018). Linking sardine recruitment in coastal areas to ocean currents using surface drifters and HF radar: a case study in the Gulf of Manfredonia, Adriatic Sea. *Ocean Science*, 14(6), 1461-1482. Doi: 10.5194/os-14-1461-2018
- Saviano, S., Kalampokis, A., Zambianchi, E., & Uttieri, M. (2019). A year-long assessment of wave measurements retrieved from an HF radar network in the Gulf of Naples (Tyrrhenian Sea, Western Mediterranean Sea). *Journal of Operational Oceanography*, 1-15
- L. Bagaglini, P. Falco and E. Zambianchi (2020) Eddy detection in HF radar-derived surface currents in the Gulf of Naples. *Remote Sensing*, 12(1), 97.
- Menna, M., Cotroneo, Y., Falco, P., Zambianchi, E., Di Lemma, R., Poulain, P. M., ... & Budillon, G. (2020). Response of the Pacific Sector of the Southern Ocean to wind stress variability from 1995 to 2017. *Journal of Geophysical Research: Oceans*, e2019JC015696.
- Saviano, S., Cianelli, D., Zambianchi, E., Conversano, F., & Uttieri, M. (2020). An Integrated Reconstruction of the Multiannual Wave Pattern in the Gulf of Naples (South-Eastern Tyrrhenian Sea, Western Mediterranean Sea). *Journal of Marine Science and Engineering*, 8(5), 372.
- Poulain, P. M., Mauri, E., Gerin, R., Chiggiato, J., Schroeder, K., Griffa, A., Borghini, M., Zambianchi, E., Falco, P., Testor, P., & Mortier, L. (2020). On the dynamics in the southeastern Ligurian Sea in summer 2010. *Continental Shelf Research*, 196, 104083.
- Castagno, P., de Ruggiero, P., Pierini, S., Zambianchi, E., De Alteris, A., De Stefano, M., & Budillon, G. (2020). Hydrographic and dynamical characterisation of the Bagnoli-Coroglio Bay (Gulf of Naples, Tyrrhenian Sea). *Chemistry and Ecology*, 36(6), 598-618.
- de Ruggiero, P., Esposito, G., Napolitano, E., Iacono, R., Pierini, S., & Zambianchi, E. (2020). Modelling the marine circulation of the Campania coastal system (Tyrrhenian Sea) for the year 2016: Analysis of the dynamics. *Journal of Marine Systems*, 103388.
- Saviano, S., De Leo, F., Besio, G., Zambianchi, E., & Uttieri, M. (2020). HF radar measurements of surface waves in the Gulf of Naples (Southeastern Tyrrhenian Sea): comparison with hindcast results at different scales. *Frontiers in Marine Science*.
- Von Schuckmann, K., Le Traon, P. Y., Smith, N., Pascual, A., Djavidnia, S., Gattuso, J. P., ... & Aouf, L. (2020). Copernicus Marine Service Ocean State Report, Issue 4. *Journal of Operational Oceanography*, 13(sup1), S1-S172.
- Krauzig, N., Falco, P., & Zambianchi, E. (2020). Contrasting surface warming of a marginal basin due to large-scale climatic patterns and local forcing. *Scientific reports*, 10(1), 1-9.
- Celentano, P., Falco, P., & Zambianchi, E. (2020). Surface connection between the Ionian Sea and different areas of the Mediterranean derived from drifter data. *Deep Sea Research Part I: Oceanographic Research Papers*, 166, 103431.
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DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONI (Art. 46 del D.P.R. 28 dicembre 2000 n. 445)
DICHIARAZIONE SOSTITUTIVA DELL'ATTO DI NOTORIETA' (Art. 47 del D.P.R. 28 dicembre 2000, n. 445)

Il sottoscritto ENRICO ZAMBIANCHI nato/a a ROMA prov. RM il 29/3/1961 e residente in ROMA via INNOCENZO X, 25, a conoscenza di quanto prescritto dall'art. 76 del D.P.R. 28 dicembre 2000, n. 445, sulla responsabilità penale cui può andare incontro in caso di falsità in atti e di dichiarazioni mendaci, ai sensi e per gli effetti del citato D.P.R. n. 445 /2000 e sotto la propria personale responsabilità:

DICHIARA le veridicità e la conformità di quanto riportato nel curriculum allegato alla domanda di partecipazione alla selezione di cui all'avviso del Direttore del DiSTeBA dell'Università del Salento, D.D. n. 400/2019 del 10/10/2019.

Data 3/12/2020

Il Dichiarante