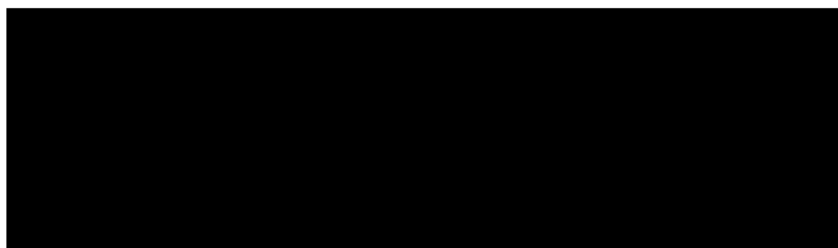


PERSONAL INFORMATION Pierpaolo Falco



CURRENT POSITION

Associate Professor in Oceanography and Atmospheric Physics at Marche Polytechnic University

EDUCATION

- PhD in Marine Science and Engineering (University of Naples Federico II): Thesis title: "Lagrangian Correntometry in the Southern Ocean"; February 2007
- Graduated in Nautical Disciplines at the Parthenope University of Naples (formerly Naval University Institute). Thesis in Physical Oceanography entitled: "Study of the dispersion of passive tracers in the Tyrrhenian Sea through the simulation of Lagrangian trajectories" July 1995

PROFESSIONAL TRAINING

- June 1996- July 2003: scholarship first and then research fellow at the Department of Sciences for the Environment, today Department of Sciences and Technologists, of the Parthenope University of Naples;
- August 2003- February 2005: researcher at the Institute of Marine Sciences - Ancona Fishing Section of the CNR;
- March 2005 - February 2006: research fellow at the Department of Marine Sciences, today Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona
- March 2006 - October 2006: project collaboration at the Institute of Marine Sciences - Ancona Fishing Section of the CNR.
- from November 2006 to 09/30/2017 in service as assistant professor at the Parthenope University of Naples, Department of Science and Technology (previously at the Department of Environmental Sciences)
- from October 2017 to November 2020 in service as associate professor at the Parthenope University of Naples, Department of Science and Technology
- from November 2020 to date in service as associate professor at the Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona

Teaching activity

From academic year 2006-2007 to date: Teaching activity in bachelor's, master's degree, and PhD courses of the Parthenope University of Naples and of the Marche Polytechnic University of Ancona.

The course topics are related to physical oceanography (general and coastal), polar oceanography, climatology, and climate risk.

Participation in Oceanographic Campaigns in the Mediterranean Sea

More than 30 periods of embark on research vessels of different size and in different areas of the Mediterranean Sea.

Antarctic expeditions, study area: Southern Ocean and Ross Sea

- XVI mission, period 02/12 / 1999-11 / 01/2000, PI of the research group, Italian Base M.Zucchelli;

- XXI mission, on-board period 30/12 / 2006-27 / 02/2007, R/V Italice

- XXVII mission, on-board period 11/01/2012 - 24/02/2012, R/V Italice

- XXVIII mission, on-board period 03/01 / 2013-19 / 01/2013, PI of research group, Korean polar / oceanographic ship Aron

- XXIX mission, on-board period 28/12 / 2014-28 / 02/2015, R/V Italice

- XXXI mission, on-board period 15/01/2015 - 23/02/2016, R/V Italice

- XXXII mission, on-board n period 29/01/2016 - 24/02/2017, R/V Italice, PI of the MORSEa project and Research Unit Leader of the CELEBER project

-XXXIV mission, on-board period 5/02 / 2019-23 / 03/2109, R/V Araon (South-Korea), PI of research group

-XXXV mission, on-board period 5/01 / 2020-19 / 02/2020, R/V Laura Bassi, PI of two scientific projects (MORSEa and ESTRO)

- XXXVI mission, on-board period 24/12 /2020-10/02/2021, R/V Laura Bassi, Scientific Leader

- XXXVII mission, on-board period 04/01/2022 -12/02/2022, R/V Laura Bassi, Scientific Leader

Research interests:

- Study of water mass formation and variability on the Ross Sea continental shelf and export in the Southern Ocean; study of the ACC dynamics mainly in the Pacific Sector of the Southern Ocean.
- Study of marine currents, at different spatial scales, with a Eulerian and Lagrangian approach.
- Use of HF radar for the measurement of the surface current field in the coastal area.
- Collection, from research vessels, moorings and autonomous vehicles and analysis of the main physical parameters to characterize the structure and dynamics of the water masses.

Relevant positions held (other than Institutional position e.g., Scientific Committees, Boards, Program leadership, Community representation):

- P.I. of the "PhySical and bioGeochemical traciNg of wATER masses at source areas and export gates in the Ross Sea and impact on the SoUtheRn OcEan (SIGNATURE)" project started on May 2022 currently on going.
- P.I. of the Italian "Marine Observatory of the Ross Sea (MORSEa)" project from 2017 to 2020.
- Research Unit leader of the "Effect of the eaSTern inflow of water on the ROss Sea salinity field variability (ESTRO)" project from December 2019 to December 2022.

- Research Unit leader of the “Pelagic ecosystem monitoring of the key species of Middle Trophic Level in the Ross Sea Marine Protected Area (ROSSKRILL)” project from 2019 to 2022.
- Research Unit leader of the “Effects of CDW on glacial ice melt and Fe amount in the western Ross Sea (Celeber)” project from 2016 to 2018.
- Member of The Ross Sea Working Group of the SOOS.
- Member of the Scientific Committee of the Ross Sea Conference (July 2023)
- **Participation in projects**

Participation in more than 20 projects, between national and international, with different roles, from participation as a researcher to the scientific responsibility of research unit and projects.

Publications

1. Melissa M Bowen, Denise Fernandez, Arnold L Gordon, Bruce Huber, Pasquale Castagno, Pierpaolo Falco, Giorgio Budillon, Kathryn L Gunn, Aitana Forcen-Vazquez, "Tides regulate the flow and density of Antarctic Bottom Water from the western Ross Sea," SCIENTIFIC REPORTS,1,3873, 2023
2. Fanelli Emanuela, A. Dell'Anno, E. Nepote, M. Lo Martire, L. Musco, S. Bianchelli, C. Gambi, P. Falco, F. Memmola, A. Colucelli, M. Meola, S. Varrella, R. Danovaro and C. Corinaldesi, Positive effects of two decades of passive ecological restoration in a historically polluted marine site, *Frontiers in Marine Science*, DOI10.3389/fmars.2023.1199654, 2023.
3. A. I. Ferola;Y. Cotroneo;P. Wadhams;G. Fusco;P.;G. Budillon;and G. Aulicino "The Role of the Pacific-Antarctic Ridge in Establishing the Northward Extent of Antarctic Sea-Ice", *GEOPHYSICAL RESEARCH LETTERS*, <https://dx.doi.org/10.1029/2023GL104373>, 2023
4. Celentano P.;Falco P.;Memmola F.;Zambianchi E. "Surface connectivity between different areas of the Mediterranean Sea derived from drifter data", *JOURNAL OF MARINE SYSTEMS*, <https://dx.doi.org/10.1016/j.jmarsys.2022.103854>, 2023
5. Maurizio Azzaro;Antonietta Specchiulli;Giovanna Maimone;Filippo Azzaro;Angelina Lo Giudice;Maria Papale;Rosabruna La Ferla;Rodolfo Paranhos;Anderson Souza Cabral;Alessandro Ciro Rappazzo;Monia Renzi;Pasquale Castagno;Pierpaolo;Paola Rivarò;Gabriella Caruso "Trophic and Microbial Patterns in the Ross Sea Area (Antarctica): Spatial Variability during the Summer Season", *JOURNAL OF MARINE SCIENCE AND ENGINEERING*, <https://dx.doi.org/10.3390/jmse10111666>, 2022
6. Naomi Krauzig; Enrico Zambianchi; Pierpaolo Pieter Groenemeijer; Karina von Schuckmann in "Copernicus Ocean State Report, issue 6", *JOURNAL OF OPERATIONAL OCEANOGRAPHY*, <https://dx.doi.org/10.1080/1755876x.2022.2095169>, 2022
7. Salvi G.; Anderson J. B.; Bertoli M.; Castagno P.; Falco P.; Ferneti M.; Montagna P.; Taviani M. "Recent Ostracod Fauna of the Western Ross Sea (Antarctica): A Poorly Known Ingredient of Polar Carbonate Factories", *MINERALS*, <https://dx.doi.org/10.3390/min12080937>, 2022
8. Lorente, P; Aguiar, E;Bendoni, M; Berta, M; Brandini, C;Caceres-Euse, A;Capodici, F;Cianelli, D;Ciraolo, G;Corgnati, L;Dadic, V;Doronzo, B;Drago, A;Dumas, D;Falco, P., Zambianchi, E;Cardin, V. "Coastal high-frequency radars in the Mediterranean - Part 1: Status of operations and a framework for future development", *OCEAN SCIENCE*, <https://dx.doi.org/10.5194/os-18-761-2022>, 2022
9. Reyes, E;Aguiar, E;Bendoni, M;Berta, M;Brandini, C;Caceres-Euse, A;Capodici, F;Cardin, V;Cianelli, D;Ciraolo, G;Corgnati, L;Dadic, V;Doronzo, B;Drago, A;Dumas, D;Falco, P.; Zambianchi, E;Orfila, A. "Coastal high-frequency radars in the Mediterranean - Part 2: Applications in support of science priorities and societal needs", *OCEAN SCIENCE*, <https://dx.doi.org/10.5194/os-18-797-2022>, 2022
10. Rivarò P.;Vivado D.;Castagno P.;Falco P.;Zambianchi E.;Ianni C. "Carbonate system data tracing freshwater inflow into the Ross Sea through the eastern gate and along the Ross Ice Shelf (Antarctica)", *FRONTIERS IN MARINE SCIENCE*, <https://dx.doi.org/10.3389/fmars.2022.957060>, 2022
11. Pierpaolo Falco, Pasquale Castagno, Yuri Cotroneo, Giuseppe Aulicino, Giorgio Budillon, Paola De Ruggiero, Giannetta Fusco, Enrico Zambianchi, Measurements for Oceanography, in *Measurement for the Sea: Supporting the Marine Environment and the Blue Economy*, Springer International Publishing, pag 51-81, https://doi.org/10.1007/978-3-030-82024-4_3, 2022
12. Maurizio Ferla, Gabriele Nardone, Arianna Orasi, Marco Picone, Pierpaolo Falco, Enrico Zambianchi, Sea monitoring networks, in *Measurement for the Sea: Supporting the Marine Environment and the Blue Economy*, Springer International Publishing, pag. 211-235, https://doi.org/10.1007/978-3-030-82024-4_9, 2022
13. Cotroneo, Y;Celentano, P;Aulicino, G;Perilli, A;Olita, A;Falco;Sorgente, R;Ribotti, A;Budillon, G;Fusco, G;Pessini, F. "Connectivity Analysis Applied to Mesoscale Eddies in the Western Mediterranean Basin", *REMOTE SENSING*, <https://dx.doi.org/10.3390/rs13214228>, 2021
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- D.;Uttieri M. "Wind direction data from a coastal HF radar system in the gulf of naples (Central Mediterranean Sea)", REMOTE SENSING, <https://dx.doi.org/10.3390/rs13071333>, 2021
15. Bowen M. M.;Fernandez D.;Forcen-Vazquez A.;Gordon A. L.;Huber B.;Castagno P.;Falco P. "The role of tides in bottom water export from the western Ross Sea", SCIENTIFIC REPORTS, <https://dx.doi.org/10.1038/s41598-021-81793-5>, 2021
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 20. Celentano P.; Falco P.;Zambianchi E. "Surface connection between the Ionian Sea and different areas of the Mediterranean derived from drifter data", DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS, <https://dx.doi.org/10.1016/j.dsr.2020.103431>, 2020
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Results from the VECTOR project”, Deep Sea Research Part I, 113, p 7-21, 2016

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To date

Prof. Pierpaolo Falco