

Marco Uttieri



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Current Position: researcher (3rd level)

Current Affiliation:

Department of Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
University of Naples "Parthenope", Naples, Italy	Laurea (equiv. MSc)	1996-2001	Environmental Sciences (with a major in Oceanography)
Stazione Zoologica Anton Dohrn, Naples, Italy and Open University, Milton Keynes, UK	PhD	2001-2006	Dynamics of Marine Ecosystems
University of Naples "Federico II", Naples Italy and CRdC-AMRA, Naples, Italy	Postdoc	2006-2007	Physical Oceanography
CoNISMa, Rome, Italy	Postdoc	2007-2008	Physical Oceanography
University of Naples "Parthenope", Naples, Italy and CRdC-AMRA, Naples, Italy	Postdoc	2008-2009	Physical Oceanography
CLU Srl, Castelfranco Emilia (MO), Italy	Research Assistant	2009	Project Management
University of Naples "Parthenope", Naples, Italy	Postdoc	2010-2012	Physical Oceanography

University of Naples “Parthenope”, Naples, Italy	Assistant Professor (non tenure)	2012-2015	Plankton Ecology
CoNISMa, Rome, Italy	Research Assistant	2015	Physical Oceanography
University of Naples “Parthenope”, Naples, Italy	Research Associate	2016	Physical Oceanography
Stazione Zoologica Anton Dohrn, Naples, Italy	Research Associate	2016-2017	Plankton Ecology
Stazione Zoologica Anton Dohrn, Naples, Italy	Researcher	2017-present	Plankton Ecology

Appointments and awards

Editorial Board Member of the following Journals: *Frontiers in Marine Science*, *Journal of Marine Science and Engineering*, *Scientific Reports*

2020: co-Guest Editor of the Special Issue “Radar Technology for Coastal Areas and Open Sea Monitoring”, *Journal of Marine Science and Engineering*, 8(8), 2020

2018: Editor of the volume "Trends in Copepod Studies – Distribution, Biology and Ecology", Nova Science Publishers, Inc., New York, 326 p. (2018).

2018: inclusion of the article Cianelli et al. (2017) “Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system” *Scientific Reports*, 7: 15868, doi: 10.1038/s41598-017-15880-x into the “Top 100 in Earth Science”.

2017-present: chair of the ICES WGEUROBUS (Towards an EUROpean OBservatory of the invasive calanoid copepod *Pseudodiaptomus marinUS*).

2012-2016: responsible of Research Units SP2_WP2_AZ1_UO06 (“Modelling of habitats and connectivity”) and SP5_WP2_AZ3_UO05 (“Implementation of coastal radar network”) in the framework of the “Flagship Project RITMARE – The Italian Research for the Sea” project, coordinated by the Italian National Research Council and funded by the Italian Ministry of Education, University and Research within the National Research Program 2011-2013.

2012-2015: P. I. (Coordinator and Scientific Responsible) of the “MOKA – Modelling and Observation of zooplankton orgAnisms” (RBFR10VF6M) project, financed by the Italian Ministry of Education, University and Research in the framework of the FIRB – Programme “Futuro in Ricerca 2010”.

2005: Winner of “Award for Excellence” (World Association of Copepodologists) at 9th International Conference on Copepoda, (Hammamet, Tunisia. July 11-15, 2005).

Other

Teaching

a. y. 2017-present: Member of PhD council in the joint programme between Stazione Zoologica Anton

Dohrn (Italy) and Open University (UK).

a. y. 2017: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2016-2017: Professor of “Animal Biology and Physiology” (5 ECTS) – Course in Biological Sciences, Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2016: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2015-2016: Member of the Board of Examiners of “Oceanography” and “Transport and Diffusion in the Ocean and Atmosphere” – Department of Science and Technology, University of Naples “Parthenope” (Italy).

April 2015: Cycle of lessons on HF radars (“Running a CODAR network – The AMRA-CoNISMa experience in the Gulf of Naples”, “Data validation”) in the framework of the “CODAR SeaSonde HF Radar Training” course, Naval Academy of Livorno (Italy).

a. y. 2014-2015: Professor of “Biodynamics of the Water Column” (6 ECTS) – Course in Biological Sciences, Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2015: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2014: Cycle of seminars (1 ECTS) (“Introduction to plankton”, “Ecology of zooplankton”, “Swimming behaviour. I. Observations” and “Swimming behaviour. II. Models”) for the PhD Courses in “Sciences of the Sea, Earth and Climate” and “Sciences Applied to the Sea, the Environment and Territory” - Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2014: Member of the Board of the PhD Courses in “Sciences of the Sea, Earth and Climate” and “Sciences Applied to the Sea, the Environment and Territory” – Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2013-2014: Professor of “Biodynamics of the Water Column” (6 ECTS) – Master Course in Environmental Sciences, Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2013-2014: Member of the Board of Examiners of “Marine Biology”, “English” and “Zoology with Laboratory” – Department of Science and Technology, University of Naples “Parthenope” (Italy).

a. y. 2013: Member of the Board of the PhD Course in “Sciences of the Sea, Earth and Climate” – Department of Environmental Sciences, University of Naples “Parthenope” (Italy).

a. y. 2012-2013: Professor of “Fundamentals of Biology” (6 ECTS) – Course in Biological Sciences, Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2012-2013: Member of the Board of Examiners of “Ichthyology and Aquatic Resources”, “Zoology with Laboratory”, “Coastal Oceanography”, “Physical Oceanography”, “Transport and Diffusion in the Ocean and Atmosphere” – Faculty of Sciences and Technologies, University of Naples

“Parthenope” (Italy).

a. y. 2012: Cycle of seminars (1 ECTS) (“Introduction to plankton”, “Ecology of zooplankton”, “Swimming behaviour. I. Observations” and “Swimming behaviour. II. Models”) for the PhD Course in “Sciences of the Sea, Earth and Climate”- Department of Environmental Sciences, University of Naples “Parthenope” (Italy).

a. y. 2011-2012: Member of the Board of Commissioners of the PhD Course in “Methodologies of the Representation Systems of Animal and Environmental Semiotics” – University of Messina (Italy).

a. y. 2011-2012: Member of the Board of Examiners of “Coastal Oceanography” and “Physical Oceanography” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2009-2010: Lecture on “Coastal radars for the measurement of surface currents” – Course of Meteo-Oceanographic Measurements, Faculty of Sciences and Technology, University of Naples “Parthenope” (Italy).

a. y. 2008-2009: Member of the Board of Examiners of “Coastal Oceanography”, “Coastal Oceanography with Measurements” and “Transport and Diffusion in Geophysical Fluids” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2007-2008: Member of the Board of Examiners of “Coastal Oceanography”, “Coastal Oceanography with Measurements” and “Transport and Diffusion in Geophysical Fluids” – Faculty of Sciences and Technologies, University of Naples “Parthenope” (Italy).

a. y. 2007-2008: Teacher of “Ecodynamics of coastal and transition aquatic systems 2” (0.125 ECTS) for the I level University Master in “Eco-Governance of Lagoon Ecosystems of Adriatic Basin – Ecology of Transitional Aquatic Systems”, Module of “Geomorphology, Hydrology and Chemistry-Physics of EAT” – University of Salento (Italy).

Students’ Supervision

Supervisor of two PhD students, two post-doctoral researchers, one master student, four research stage student, one MSc student.

Editorial Commitments

- Edited Books

Editor of the volume "Trends in Copepod Studies – Distribution, Biology and Ecology", Nova Science Publishers, Inc., New York, 326 p. (2018).

- Journal Reviewing Activity

Reviewer (>45 reviewed articles) for the following Journal: *Adaptive Behaviour*; *Aquatic Biology*; *Aquatic Ecology*; *Aquatic Toxicology*; *Chinese Journal of Oceanology and Limnology*; *Dynamics of Atmospheres and Oceans*; *Ecological Modelling*; *Environmental Science and Pollution Research*; *Estuarine, Coastal and Shelf Science*; *Frontiers in Marine Science*; *Hydrobiologia*; *ICES Journal of Marine Science*; *Integrative and Comparative Biology*; *Journal of Experimental Marine Biology and*

Ecology; Journal of Fish Biology; Journal of Marine Science and Engineering; Journal of Marine Systems; Journal of Plankton Research; Journal of the Royal Society Interface; Marine Biology; Mathematical Biosciences; PLoS ONE; Remote Sensing; Science of the Total Environment; Water.

Publications

Author of 44 publications indexed in Scopus (*h*-index: 18), of which 35 papers, 1 edited book and 8 book chapters (as of March 2, 2021)

List of publications of the last 10 years:

Peer-reviewed publications:

- Serafino F., Lugni C., Ludeno G., Arturi D., **Uttieri M.**, Buonocore B., Zambianchi E., Budillon G., Soldovieri F. (2012) REMOCEAN: a flexible X band radar system for sea state monitoring and surface current estimation. *IEEE Geoscience and Remote Sensing Letters*, 9 (5): 822-826, doi: 10.1109/LGRS.2011.2182031
- Uttieri M.**, Cianelli D., Zambianchi E. (2013) Behaviour-dependent predation risk in swimming zooplankters. *Zoological Studies*, 52: 32, doi:10.1186/1810-522X-52-32
- Sabia L., **Uttieri M.**, Soussi S., Schmitt F. G., Zagami G., Zambianchi E. (2014) *Pseudodiaptomus marinus* Sato, 1913, a new invasive copepod in Lake Faro (Sicily): observations on the swimming behaviour and the sex-dependent responses to food. *Zoological Studies*, 53: 49, doi:10.1186/s40555-014-0049-8
- Cianelli D., Falco P., Iermano I., Mozzillo P., **Uttieri M.**, Buonocore B., Zambardino G., Zambianchi E. (2015) Inshore/offshore water exchange in the Gulf of Naples. *Journal of Marine Systems*, 145: 37-52, doi:10.1016/j.jmarsys.2015.01.002
- Sabia L., Zagami G., Mazzocchi M. G., Zambianchi E., **Uttieri M.** (2015) Spreading factors of a globally invading coastal copepod. *Mediterranean Marine Science*, 16 (2): 460-471, doi: 10.12681/mms.1154
- Bellomo L., Griffa A., Cosoli S., Falco P., Gerin R., Iermano I., Kalampokis A., Kokkini Z., Lana A., Magaldi M. G., Mamoutos I., Mantovani C., Marmain J., Potiris E., Sayol J. M., Barbin Y., Berta M., Borghini M., Bussani A., Corgnati L., Dagneaux Q., Gaggelli J., Guterman P., Mallarino D., Mazzoldi A., Molcard A., Orfila A., Poulain P.-M., Quentin C., Tintoré J., **Uttieri M.**, Vetrano A., Zambianchi E., Zervakis V. (2015) Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience. *Journal of Operational Oceanography*, 8(2): 95-107, doi: 10.1080/1755876X.2015.1087184
- Falco P., Buonocore B., Cianelli D., De Luca L., Giordano A., Iermano I., Kalampokis A., Saviano S., **Uttieri M.**, Zambardino G., Zambianchi E. (2016) Dynamics and sea state in the Gulf of Naples: potential use of high-frequency radar data in an operational oceanographic context. *Journal of Operational Oceanography*, 9(S1): s33-s45, doi: 10.1080/1755876X.2015.1115633
- 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, doi: 10.1109/LGRS.2016.2591258
- Nihongi A., Ziarek J. J., **Uttieri M.**, Sandulli R., Zambianchi E., Strickler J. R. (2016) Behavioural interseasonal adaptations in *Daphnia pulicaria* (Crustacea: Cladocera) as induced by predation

infochemicals. *Aquatic Ecology*, 50(4): 667-684, doi: 10.1007/s10452-016-9585-0

- Sabia L., Di Capua I., Percopo I., **Uttieri M.**, Amato A. (2017) ITS2 in calanoid copepods: reconstructing phylogenetic relationships and identifying a newly introduced species in the Mediterranean. *The European Zoological Journal*, 84(1): 104-114, doi: 10.1080/11250003.2016.1276639
- Cianelli D., D'Alelio D., **Uttieri M.**, Sarno D., Zingone A., Zambianchi E., Ribera d'Alcalà M. (2017) Disentangling physical and biological drivers of phytoplankton dynamics in a coastal system. *Scientific Reports*, 7: 15868, doi: 10.1038/s41598-017-15880-x
[Article included in the “Top 100 in Earth Science” by Scientific Reports]
- Pastore R., **Uttieri M.**, Bianco G., Ribera d'Alcalà M., Mazzocchi M. G. (2018) Distinctive diffusive properties of motion in planktonic copepods swimming in different environmental conditions. *European Physical Journal E*, 41: 79, doi: 10.1140/epje/i2018-11688-5
- Saviano S., Kalampokis A., Zambianchi E. and **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*, 12, 1-1, doi: 10.1080/1755876X.2019.1565853
- Svetlichny L., Hubareva E., Khanaychenko A., **Uttieri M.** (2019) Response to salinity and temperature changes in the alien Asian copepod *Pseudodiaptomus marinus* introduced in the Black Sea. *Journal of Experimental Zoology A*, 331, 416-426, doi: 10.1002/jez.2309
- Uttieri M.**, Nihongi A., Hinow P., Motschman J., Jiang H., Alcaraz M., Strickler J. R. (2019) Copepod manipulation of oil droplet size distribution. *Scientific Reports*, 9, 547, doi: 10.1038/s41598-018-37020-9
- de Leo F., Besio G., Saviano S., Zambianchi E., **Uttieri M.** (2020) Evaluation of HF-radar wave measures in the Gulf of Naples. *2019 IMEKO TC19 International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, MetroSea 2019. IMEKO, Genoa, Italy*, 135-136
- Saviano S., Cianelli D., Zambianchi E., Conversano F., **Uttieri M.** (2020) Multiple year characterization of the wave field in the Gulf of Naples by multi-platform measurements. *2019 IMEKO TC19 International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, MetroSea 2019. IMEKO, Genoa, Italy*, 276-280
- Ludeno G., **Uttieri M.** (2020) Editorial for Special Issue “Radar technology for coastal areas and open sea monitoring”. *Journal of Marine Science and Engineering*, 8, 560, doi: 10.3390/jmse8080560
- 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, 372, doi: 10.3390/jmse8050372
- 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*, 7, 492, doi: 10.3389/fmars.2020.00492
- Uttieri M.**, Aguzzi L., Aiese Cigliano R., Amato A., Bojanić N., Brunetta M., Camatti E., Carotenuto Y., Damjanović T., Delpy F., de Olazabal A., Di Capua I., Falcão J., Fernandez de Puellas M. L., Foti G., Garbazy O., Goruppi A., Gubanova A., Hubareva E., Iriarte A., Khanaychenko A., Lučić D., Marques S. C., Mazzocchi M. G., Mikuš J., Minutoli R., Pagano M., Pansera M., Percopo I., Primo A. L., Svetlichny L., Rožić S., Tirelli V., Uriarte I., Vidjak O., Villate F., Wootton M.,

Zagami G., Zervoudaki S. (2020) WGEUROBUS – Working Group “Towards a EUROpean OBServatory of the non-indigenous calanoid copepod *Pseudodiaptomus marinUS*”. *Biological Invasions*, 22, 885-906, doi: 10.1007/s10530-019-02174-8

Gäbler-Schwarz S., Hinz F., Kirst G. O., **Uttieri M.**, Medlin L. K. (2021) Local environment shapes adaptation of *Phaeocystis antarctica* to salinity perturbations: evidence for physiological resilience. *Journal of Experimental Marine Biology and Ecology*, 538, 151527, doi: 10.1016/j.jembe.2021.151527

Svetlichny L., Hubareva E., **Uttieri M.** (2021) Ecophysiological and behavioural responses to salinity and temperature stress in cyclopoid copepod *Oithona davisae* with comments on gender differences. *Mediterranean Marine Science*, 22, 89-101, doi: 10.12681/mms.22496

Book Chapters:

Cianelli D., **Uttieri M.**, Buonocore B., Falco P., Zambardino G., Zambianchi E. (2012) Dynamics of a very special Mediterranean coastal area: the Gulf of Naples. In: G. S. Williams (Ed.) “Mediterranean Ecosystems: Dynamics, Management and Conservation”, pp. 129-150. Nova Science Publishers, Inc., New York, ISBN: 978-1-61209-146-4

Cianelli D., **Uttieri M.**, Zambianchi E. (2012) Individual Based Modelling of zooplanktonic organisms. In: W.-J. Zhang (Ed.) “Ecological Modelling”, pp. 83-96. Nova Science Publishers, Inc., New York, ISBN: 978-1-61324-567-5

Uttieri M., Zambianchi E. (2012) On the fractal characterisation of zooplankton motion: applications and perspectives. In: E. W. Mitchell and S. R. Murray (Eds.) “Classification and Application of Fractals: New Research”, pp. 113-129. Nova Science Publishers, Inc., New York, ISBN: 978-1-61324-104-2

Cianelli D., **Uttieri M.**, Guida R., Menna M., Buonocore B., Falco P., Zambardino G., Zambianchi E. (2013) Land-based remote sensing of coastal basins: use of an HF radar to investigate surface dynamics and transport processes in the Gulf of Naples. In: E. Alcântara (Ed.) “Remote Sensing: Techniques, Applications and Technologies”, pp. 1-30. Nova Science Publishers, Inc., New York, ISBN: 978-1-62417-140-6

Uttieri M., Sandulli R., Spezie G., Zambianchi E. (2014) From small to large scale: a review of the swimming behaviour of *Daphnia*. In: M. El-Doma (Ed.) “*Daphnia*: Biology and Mathematic Perspectives”, pp. 309-322. Nova Science Publishers, Inc., New York, ISBN: 978-1-63117-028-7

Sabia L., **Uttieri M.**, Zagami G., Zambianchi E. (2014) Swimming, feeding and mating behaviour in copepods: a brief review. In: L. Seuront (Ed.) “Copepods: Diversity, Habitat and Behavior”, pp. 121-144. Nova Science Publishers, Inc., New York, ISBN: 978-1-63117-846-7

Uttieri M. (2018) Trends in copepod studies. In: M. Uttieri (Ed.) “Trends in Copepod Studies – Distribution, Biology and Ecology”, pp. 1-11. Nova Science Publishers, Inc., New York, ISBN: 978-1-53612-593-1

Book:

Uttieri M. (Ed.) (2018) “Trends in Copepod Studies – Distribution, Biology and Ecology”. Nova Science Publishers, Inc., New York, 326 p., ISBN: 978-1-53612-593-1

Special Issues:

Ludeno G., **Uttieri M.** (2020) “Radar Technology for Coastal Areas and Open Sea Monitoring”.
Journal of Marine Science and Engineering, doi: 10.3390/books978-3-03936-973-7, ISBN:
978-3-03936-972-0 (Hbk), 978-3-03936-973-7 (PDF), 250 pp