



Curriculum vitae of Marcello G. Magaldi

July 2024

PERSONAL INFORMATION

Names: Marcello Gatimu
Surname: Magaldi
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S.S. di Lerici,
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fax: +39-0187-970585

EDUCATION

May 2009 **Ph.D. in Meteorology and Physical Oceanography** at the University of Miami, [RSMAS/MPO](#).
Thesis: *Turbulent coherent structures near coastal capes*.
Advisors: Prof. T. M. Özgökmen, Prof. E. P. Chassignet, Prof. A. Griffa

February 2002 Five Year **Degree in Environmental Sciences** (specialization in Marine Environment) at the University of Genoa (Italy), **grade 110/110 cum laude and press dignity**. Thesis: *Application of the Princeton Ocean Model (POM) and of the Lagrangian Assessment for Marine Pollution model (LAMP3D) to a study of the impact coming from finfish net-pen mariculture wastes*.
Advisors: Prof. R. Festa, Dr. P. Carnevale, Prof. M. Fabiano and Prof. S. Tucci

WORK EXPERIENCES

Jan. 2023 - current	Senior Researcher Consiglio Nazionale delle Ricerche (CNR), Istituto delle Scienze Marine (ISMAR), Sede di La Spezia Pozzuolo di Lerici (SP), Italy
Oct. 2011 - Dec. 2022	Researcher Consiglio Nazionale delle Ricerche (CNR), Istituto delle Scienze Marine (ISMAR), Sede di La Spezia Pozzuolo di Lerici (SP), Italy
Jul. 2011 - Feb. 2018	Visiting Scholar Department of Earth and Planetary Sciences, The Johns Hopkins University Baltimore, MD, USA
Sep. 2011	Fixed-term Contract Researcher Consiglio Nazionale delle Ricerche (CNR), Istituto delle Scienze Marine (ISMAR), Sede di La Spezia Pozzuolo di Lerici (SP), Italy
Jul. 2009 - Jun. 2011	PostDoctoral Fellow Department of Earth and Planetary Sciences, The Johns Hopkins University Baltimore, MD, USA
Sep. 2003 - May 2009	Research and Teaching Assistant Division of Meteorology and Physical Oceanography, University of Miami Miami, FL, USA
Jun. 2003 - Aug. 2003	Environmental Consultant EcoFovea S.r.l. Foggia, Italy Environmental Impact Assessment of a polifunctional platform for the treatment of special and dangerous wastes, declared environmentally compatible by local authorities (Bollettino Regionale della Regiona Puglia, BURP n. 75, 18/05/2005, pp. 7621-7626)
Dec. 2002 - Jun. 2003	Research Assistant Consiglio Nazionale delle Ricerche (CNR), Istituto di Oceanografia Fisica (IOF) Pozzuolo di Lerici (SP), Italy Analysis of coastal data from the SINAPSI project
Jun. 2002 - Nov. 2002	Research Assistant Stazione Zoologica Anton Dohrn Naples, Italy Analysis of the possible relations between plankton and climatological data from the SINAPSI project

TEACHING EXPERIENCES

Summer 2024, A.Y. 2023-2024	Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy
Summer 2023, A.Y. 2022-2023	Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy
Summer 2022, A.Y. 2021-2022	Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy
Summer 2021, A.Y. 2020-2021	Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy
Summer 2020, A.Y. 2019-2020	Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy
Fall 2018, A.Y. 2018-2019	Fixed-term Contract Professor Course: Dispersion Processes in the Environmental Engineering University of Genoa, Genoa, Italy

Fall 2017,
A.Y. 2017-2018

Fixed-term Contract Professor
Course: Dispersion Processes in the Environmental Engineering,
Module 2
[University of Genoa](#), Genoa, Italy

Summer 2017,
A.Y. 2016-2017

Fixed-term Contract Professor
Course: Environmental Fluid Dynamics, Module 2
[University of Genoa](#), Genoa, Italy

Summer 2015,
A.Y. 2014-2015

Fixed-term Contract Professor
Course: Environmental Fluid Dynamics
[University of Genoa](#), Genoa, Italy

Fall 2008

Teaching Assistant
Course: Computer Models in Fluid Dynamics, MPO662,
taught by [Prof. Mohamed Iskandarani](#)
[University of Miami](#), Miami, FL, USA

Fall 2008

Teaching Assistant
Course: Scientific Programming for Atmospheric Science,
MSC321,
taught by [Prof. Mohamed Iskandarani](#)
[University of Miami](#), Miami, FL, USA

Fall 2006

Teaching Assistant
Course: Scientific Programming for Atmospheric Science,
MSC321,
taught by [Prof. Mohamed Iskandarani](#)
[University of Miami](#), Miami, FL, USA

POSTDOC AND RESEARCH FELLOW ADVISING

Dr. Eléonore Cambra
PostDoctoral Research
Fellow, 2023 - current

Co-advisor
Development of tools for maritime spatial planning and
management of marine protected areas that include scenarios of
climate change
[Consiglio Nazionale delle Ricerche \(CNR\), Istituto delle Scienze
Marine \(ISMAR\), Sede di La Spezia](#), Pozzuolo di Lerici (SP), Italy

Dr. Roberta Sciascia
PostDoctoral Research
Fellow, 2015 - 2018

Advisor
Development of high-resolution numerical models, both
hydrostatic and non-hydrostatic, for the Eastern Ligurian Sea
and assessment of the impact of submesoscale processes on
connectivity
[Consiglio Nazionale delle Ricerche \(CNR\), Istituto delle Scienze
Marine \(ISMAR\), Sede di La Spezia](#), Pozzuolo di Lerici (SP), Italy

Dr. Michol Ghezso
PostDoctoral Research
Fellow, 2013 - 2016

Advisor
Environmental and fishery data analysis for ecological
modelling and coastal management
[Consiglio Nazionale delle Ricerche \(CNR\), Istituto delle Scienze
Marine \(ISMAR\), Sede di La Spezia](#), Pozzuolo di Lerici (SP), Italy

Ms. Lina Porciello
Research Fellow, 2013 - 2015

Advisor
Modelling hydrodynamics and water quality in the Gulf of La
Spezia
[Consiglio Nazionale delle Ricerche \(CNR\), Istituto delle Scienze
Marine \(ISMAR\), Sede di La Spezia](#), Pozzuolo di Lerici (SP), Italy

THESIS AND DISSERTATION ADVISING

9) **Andrea Valli**
M.Sc. Environmental
Engineering, 2024

Advisor
Thesis: Dispersal processes and connectivity studies in the
marine environment for the realization of Marine Protected
Areas in Tanzania
[University of Genoa](#), Genoa, Italy

8) **Moein Doost Mohammadi**
Ph.D. in in Civil and
Environmental
Engineering, 2021 (XXXVII
cycle)

Co-advisor
Thesis: Numerical simulation of ocean currents in the Northern
Mozambique Channel
[University of Genoa](#), Genoa, Italy

7) **Alessandro Alabiso**
M.Sc. Environmental

Advisor
Thesis: Dispersion and biodegradation processes around a

Engineering, 2021

marine offshore fish farm
[University of Genoa](#), Genoa, Italy

Updates on Alessandro

-) In 2021 Alessandro joined the [DHI group](#) in Italy

6) Camille Mazoyer
Ph.D. in the *École Doctorale*
548 - Mer et Sciences, 2019

Ph.D. Committee Member and President of the defense

Thesis: Modelling fluxes and transport of the pollutants within the Toulon Bay [Modélisation des flux et du transport de polluants dans la rade de Toulon]

[Université de Toulon](#), Toulon, France

Updates on Camille

-) In 2019 Camille won a permanent position at the [Institut de Recherche pour le Développement](#)

5) Stefano Putzu
M.Sc. in Civil and
Environmental
Engineering, 2015

Co-advisor

Thesis: Hydrodynamics and dispersion processes in closed basins. Development of test cases with ROMS [Idrodinamica e processi di dispersione in bacini idrici confinati. Sviluppo di casi test con ROMS]

[University of Genoa](#), Genoa, Italy

Updates on Stefano

-) Stefano won a scholarship for pursuing his Ph.D. in "Fluid dynamics and Environmental Engineering" at the [University of Genoa](#)

-) Stefano got his Ph.D. in 2019 and is currently working in his family business

4) Elisa Cozzani
M.Sc. in Civil and
Environmental
Engineering, 2015

Co-advisor

Thesis: Numerical modelling of coastal circulation in the eastern Ligurian region [Modellazione numerica della circolazione costiera del Levante Ligure]

[University of Genoa](#), Genoa, Italy

Updates on Elisa

-) Elisa won the 2016 [AIOM](#) Best Thesis Award. Check out the motivation for the [AIOM Award](#)

-) Elisa got her Ph.D. in "Future Earth, climate change and societal challenges" at the [University of Bologna](#) in 2023 and is now a Research Fellow at the [NATO - Centre for Maritime Research and Experimentation](#)

3) Mattia Almansi
M.Sc. in Marine Sciences,
2015

Co-advisor

Thesis: Dynamics and dispersion around a rectangular headland: the Promontorio of Portofino [Circolazione e dispersione attorno ad un promontorio rettangolare: il caso del Promontorio di Portofino]

[University of Genoa](#), Genoa, Italy

Updates on Mattia

-) In 2020 Mattia got his Ph.D. in the [Morton K. Blaustein Department of Earth and Planetary Sciences of The Johns Hopkins University](#)

-) In 2020 Mattia moved in Southampton as a PostDoc fellow at the [National Oceanographic Center](#)

-) In 2022 Mattia joined [B-Open](#) as Scientific Software Engineer

2) Daniele Lagomarsino
M.Sc. in Physics, 2014

Co-advisor

Thesis: Multiple-scale perturbation methods for large-scale transport problems and application to an ocean model [Sviluppi perturbativi a scale multiple per problemi di trasporto a grande scala ed applicazione in un modello oceanografico]

[University of Genoa](#), Genoa, Italy

Updates on Daniele

-) Daniele got his Ph.D. in "Fluid dynamics and processes in Environmental Engineering" in 2018 at the [University of Genoa](#)

-) In 2018 Daniele was a PostDoc Fellow in the [Non-linear and off-balance physics Team](#) of the [Université Côte d'Azur](#)

-) In 2019 Daniele was a PostDoc Fellow at the [Italian Institute of Technology](#)

-) In 2020 Daniele was a PostDoc Fellow at the [University of Genoa](#)

-) In 2023 Daniele joined our lab at [Consiglio Nazionale delle Ricerche \(CNR\), Istituto delle Scienze Marine \(ISMAR\), Sede di La Spezia](#) as a Fixed-term Contract Researcher

1) Laura Cimoli
M.Sc. in Marine Sciences,
2013

Co-advisor

Thesis: A numerical approach to assess dispersion processes: the case of the Gulf of Trieste [Studio dei processi dispersivi mediante modellistica numerica: il caso del Golfo di Trieste]

[University of Genoa](#), Genoa, Italy

Updates on Laura

-) Laura won the 2013 Alain Vatrican RAMOGE Prize

Check out different articles [[English 1](#) | [English 2](#) | [Italian](#)]

-) Laura is doing an internship at the [Laboratoire de Physique des Oceans](#) in Brest
-) Laura won a scholarship for pursuing her Ph.D. at the [University of Oxford](#) and joined the [Hertford College](#)
-) Laura joined [Prof. David Marshall's](#) group at Oxford
-) Laura got her Ph.D. in Physical Oceanography at the [University of Oxford](#) in 2020 and moved as a Research Associate at the [Scripps Institution of Oceanography](#)
-) Check out her new [webpage](#)

PROJECTS AND EXTERNAL FUNDING

Nov. 2022 - current	<p>JERICO national representative and PI of the Operative Unit for CNR-ISMAR Lerici, ITINERIS - "Italian Integrated Environmental Research Infrastructures System", NextGeneration, Recovery plan for Europe Programme, PNRR - Mission 4 "Education and Research" - Component 2: "From research to business" - Investment 3.1: "Fund for the realisation of an integrated system of research and innovation infrastructures"</p> <p>Budget: €2,991,352.29</p>
Oct. 2022 - current	<p>Participation, RAISE - "Robotics and AI for socio-economic empowerment", NextGeneration, Recovery plan for Europe Programme, PNRR - Mission 4 "Education and Research" - Component 2: "From research to business" - Investment 1.5: "Creating and strengthening innovation ecosystems building local Research and Development leaders"</p>
Aug. 2022 - current	<p>NW-Med test site co-leader and PI for CNR-ISMAR Lerici, MSP4BIO - "Improved Science-Based Maritime Spatial Planning to Safeguard and Restore Biodiversity in a coherent European MPA network", Horizon Europe Programme, HORIZON-CL6-2021-BIODIV-01 action grant</p> <p>Budget: €113,750.00</p>
Oct. 2020 - current	<p>PI for CNR-ISMAR, JERICO-DS - "Joint European Research Infrastructure of Coastal Observatories - Design Study", H2020 European Programme, H2020-INFRADEV-01-2019-2020 Research and Innovation action</p> <p>Budget: €193,687.50</p>
Sep. 2020 - current	<p>Participation, FACTS - "Fluxes and fAte of MiCroplastics in NorThern European WaterS", JPI Ocean Programme, Ecological Aspects of Microplastics Joint Action</p>
Jun. 2021 - current	<p>Participation, SINBAD 2.0 - "Servizi per la Navigazione e Attività Marittime", POR-CRO Fondo Sociale Europeo Regione Liguria 2014-2020 Asse 1 Ricerca e Innovazione</p>
Feb. 2020 - current	<p>Participation, JERICO-S3 - "Joint European Research Infrastructure of Coastal Observatories: Science, Service, Sustainability", H2020 European Programme, H2020-INFRAIA-01-2018-2019 Research and Innovation action</p>
Apr. 2019 - Jan. 2023	<p>PI for CNR-ISMAR, SINAPSI - "assistenza in Sicurezza alla Navigazione per l'Accesso ai Porti in Sicurezza", Interreg Italy-France Marittimo 2014-2020 European Programme</p> <p>Budget: €575,025.00</p>
Jun. 2018 - Sep. 2022	<p>PI for CNR, SICOMAR plus - "Sistema transfrontaliero per la sicurezza in mare COntra i rischi della navigazione e per la salvaguardia dell'ambiente MARino - plus", Interreg Italy-France Marittimo 2014-2020 European Programme</p> <p>Budget: €746,109.08</p>
Mar. 2017 - Oct. 2020	<p>Project coordinator and leading PI, IMPACT - "Impatto Portuale su aree marine protette: Azioni Cooperative Transfrontaliere", Interreg Italy-France Marittimo 2014-2020 European Programme</p> <p>Budget: €1,932,234.85</p>
Sep. 2015 - Sep. 2019	<p>Participation, JERICO-NEXT - "Joint European Research Infrastructure network for Coastal Observatory, Novel European eXpertise for coastal observaTories", H2020 European Programme, H2020-INFRAIA-2014-2015 Research and Innovation action</p>
May 2013 - Sep. 2015	<p>Project coordinator, MHYWAQ-MCA - "Modelling Hydrodynamics and WATer Quality in Marine and Coastal</p>

Areas", POR-CRO Fondo Sociale Europeo Regione Liguria 2007-2013 Asse IV Capitale Umano
Budget: €52,000.00

Jan. 2012 - Dec. 2015

PI of the Operative Unit SP2-WP2-AZ1-UO8, RITMARE - "La Ricerca Italiana per il MARE", National Flagship Research Programme funded by the Italian Ministry of University and Research
Budget: €327,726.70

Sep. 2011 - Feb. 2013

Participation, TOSCA - "Tracking Oil Spills & Coastal Awareness network", [Interreg European MED](#) Programme

CRUISES

July-August 2012

2nd TOSCA Project Cruise
R/V Urania, Tyrrhenian and Ligurian Seas
CTD casts with LADCP, deployment and recovery of Lagrangian drifters, deployment and recovery of moorings in the Corsica and Sicilian channels, deployment and recovery of underwater cameras
Chief Scientists: Mireno Borghini and Enrico Zambianchi

December 2011

1st TOSCA Project Cruise
R/V Urania, Ligurian Sea
CTD casts with LADCP, deployment and recovery of Lagrangian drifters
Chief Scientists: Anne Molcard and Mireno Borghini

August 2011

FHL Summer School
R/V Centennial and small boats, Puget Sound, WA, USA
CTD casts, deployment and recovery of ADCPs
Chief Scientists: Parker MacCready and Rocky Geyer

COMPUTER KNOWLEDGE

Hardware Platforms:

Workstation, PC, High Performance Computing clusters

Operative Systems:

LINUX, Windows, UNIX, DOS

Languages:

Programming: FORTRAN90/77; Visual FORTRAN; Python;
Scripting: bash, tcsh, csh.
Writing: LaTeX, HTML, CSS

Applications:

ODV; GrADS; Matlab; MS Office

Ocean Models:

MITgcm; ROMS; HYCOM; POM; OpenFOAM; Delft3D

COURSES

18 April-3 May 2024

[Open Science Computing: Pangeo Pathfinder Short Course](#), Genoa, Italy

15-19 December 2023

[Faunalia: Python and qGIS Course](#), online, Italy

14-22 November 2023

[Faunalia: Geodatabase Course: PostgreSQL and PostGIS](#), online, Italy

11-23 October 2023

[Faunalia: qGIS Course](#), online, Italy

11 March-8 June 2022

[University of Milan - Bicocca: JERICO Business Model Development Course](#), online, Italy

1 February-30 April 2015

[University of Michigan: Programming for everybody \(Python\)](#), Massive Online Open Course offered through [Coursera](#) [[view verified certificate PDF](#)]

2-6 July 2012

[University of Genoa: An introduction to OpenFoam](#), Genoa, Italy

19-23 September 2011

[Université du Sud, Toulon - Var: Coastal Dynamics Modeling 2011 Summer School](#), La Londe-Les-Maures, France

17 July-19 August 2006

[University of Washington, Friday Harbor Laboratories: Estuarine and Coastal Fluid Dynamics Summer School](#), San Juan Islands, WA, USA

20-30 September 2004

International Summer School of Oceanography: An Integrated View of Oceanography: Ocean Weather Forecasting in the 21st Century, Lalonde Les Maures, France

5-6 July 2001

Course promoted by CILEA (Lombard Interuniversitarian Consortium for the Automatic Elaboration): *The FORTRAN 90 for the Intensive Scientific Calculation*, Milan, Italy

CONFERENCES AND WORKSHOPS

12-14 June 2019

[Journées Scientifiques LEFE/GMMC2019](#), Toulon, France

12 December 2018

Evento di lancio del progetto [GEREMIA](#), Genoa, Italy

22 November 2018

Evento di lancio del progetto [SICOMAR plus](#), Leghorn, Italy

15 November 2018

Evento Annuale [Programma Italia-Francia Marittimo](#), Florence, Italy

9 November 2018

Conferenza intermedia del progetto [IMPACT](#), Toulon, France

19 September 2018

Evento di lancio del progetto [SPLASHI](#), Genoa, Italy

5 June 2018

[Progetto SE.D.RI.PORT](#), [La modellistica per la gestione e la protezione dell'ambiente marino](#), La Spezia, Italy

10-11 April 2018

[12es Journée Scientifique de l'Université de Toulon](#), Toulon, France

16 November 2017

Evento Annuale [Programma Italia-Francia Marittimo](#), Genoa, Italy

27 May 2017

[Giornata Europea del Mare 2017](#), La Spezia, Italy

19 May 2017

Evento di lancio del progetto [IMPACT](#), Florence, Italy

11 January 2017

Evento di presentazione [Programma Italia-Francia Marittimo](#), Savona, Italy

13-15 September 2016

[INCREASE HF Radar Experts Workshop Meeting](#), Lerici (SP), Italy

27 April 2016

[L'eau en Méditerranée: un projet porté par l'Association de Recherche et de Coopération Euro-Méditerranée](#), Toulon, France

26 April 2016

[2e Journée Scientifique du programme PREVENT](#), Toulon, France

30 March - 1 April 2016

[13th Arctic-Subarctic Ocean Fluxes \(ASOF\) Meeting](#), Lerici (SP), Italy

3-4 December 2015

[Copernicus Marine Environment Monitoring Service \(CMEMS\) regional user and training workshop](#), La Spezia, Italy

5-6 November 2015

[H2020 Canada-Europe Working Session on Oceans](#), Barcelona, Spain

20-21 October 2015

[SICOMAR final meeting](#), Leghorn, Italy

19 June 2015

Il Tigullio è anche Mare! Meeting, Auditorium San Francesco, Chiavari (GE), Italy

15 January 2015

[SICOMAR meeting: Nuove tecnologie per la sicurezza e la gestione del mare](#), Genoa, Italy

20 May 2014

[Observing the Seas Meeting](#), Terminal Crociere, La Spezia, Italy

13-15 May 2014

[ESF Exploratory Workshop: Oceanic Heat Transport To Floating Glaciers In Antarctica](#), Lerici (SP), Italy

23-28 February 2014

[2014 Ocean Sciences Meeting](#), Honolulu, HI, USA

17 October 2013

[SICOMAR kick-off meeting](#), Florence, Italy

25-27 March 2013

[6th TOSCA Meeting](#), La Spezia, Italy

8-10 October 2012

[10th Arctic-Subarctic Ocean Fluxes \(ASOF\) Meeting](#), Lerici (SP), Italy

7-10 May 2012

[4th TOSCA Meeting](#), Alexandroupolis, Greece

20-24 February 2012

[2012 Ocean Sciences Meeting](#), Salt Lake City, UT, USA

9-11 November 2011

["Thermohaline Overturning – at Risk? \(THOR\)" 3rd Annual Meeting](#), Bergen, Norway

8 November 2011

[9th Arctic-Subarctic Ocean Fluxes \(ASOF\) Meeting](#), Bergen, Norway

13 May 2011	2011 CEAfM-Burgers Research Symposium, Baltimore, MD, USA
20-22 October 2010	14th Arctic Ocean Intercomparison Model Project (AOIMP) Meeting, Woods Hole, MA, USA
18-19 October 2010	8th Arctic-Subarctic Ocean Fluxes (ASOF) Meeting, Woods Hole, MA, USA
28 May 2010	2010 CEAfM-Burgers Research Symposium, College Park, MD, USA
24-25 May 2010	2010 Atmosphere-Ocean Science Days., College Park, MD, USA
22-26 February 2010	2010 Ocean Sciences Meeting, Portland, OR, USA
28-30 October 2009	CLIVAR - Ocean Climate Model Development Meeting, Princeton, NJ, USA
2-7 March 2008	2008 Ocean Sciences Meeting, Orlando, FL, USA
1-3 October 2007	2007 ROMS/TOMS Users Workshop, Los Angeles, CA, USA
13-16 November 2006	5th International Workshop, Unstructured Grid Numerical Modelling of Coastal Shelf and Oceanic Flows, Miami, FL, USA
14-16 February 2006	2006 LOM Meeting, Miami, FL, USA
6-8 December 2005	HYCOM NOPP GODAE Meeting, Miami, FL, USA
26-28 January 2005	2005 LOM Meeting, Miami, FL, USA
27-29 October 2004	HYCOM NOPP GODAE Meeting, Miami, FL, USA
13-15 May 2002	Second National Conference of SINAPSI (Seasonal, INterannual and decAdal variability of the atmosPhere, oceanS and related marIne ecosystems), Portonovo (AN), Italy
23-24 March 2000	First International AISA (Italian Environmental Sciences Association) Congress: <i>About an environmental citizenship: perception, communication and education</i> , Venice, Italy

SCIENTIFIC WORKS

REFEREED ISI/JCR PAPERS IN JOURNALS WITH ISSN

2025

36) Cavaiola M., Marini S., **Magaldi M. G.**, Mazzino A., 2025. *AI-driven 6-hour ahead nowcasting of sea-surface currents using HF Radar*. Appl. Ocean Res., 158, 104542, doi:10.1016/j.apor.2025.104542 (Online ISSN: 1879-1549, Linking ISSN: 0141-1187).

[[published open access version](#) | [BibTeX entry](#)]

2024

35) Corgnati L. P., Berta M., Kokkini Z., Mantovani C., **Magaldi M. G.**, Molcard A., Griffa A., 2024. *Assessment of OMA gap-filling performances for multiple and single coastal HF radar systems: validation with drifter data in the Ligurian Sea*. Remote Sens., 16 (13), 2458, doi:10.3390/rs16132458 (ISSN: 2072-4292).

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2023

34) Bendoni M., Moore A. M., Molcard A., **Magaldi M. G.**, Fattorini M., Brandini C., 2023. *4D-Var data assimilation and observation impact on surface transport of HF-Radar derived surface currents in the North-Western Mediterranean Sea*. Ocean Modell., 184, 102236, doi:10.1016/j.ocemod.2023.102236 (ISSN: 1463-5003).

[[published version](#) | [preprint](#) | [BibTeX entry](#)]

2022

33) Sciascia R., Guizien K., **Magaldi M. G.**, 2022. *Larval dispersal simulations and connectivity predictions for Mediterranean gorgonian species: sensitivity to flow representation and biological traits*. ICES J. Mar. Sci., 79 (7), pp. 2043-2054, doi:10.1093/icesjms/fsac135 (Online ISSN: 1095-9289, Print ISSN: 1054-3139).

[[published version](#) | [preprint](#) | [BibTeX entry](#)]

32) Reyes E., Aguiar E., Bendoni M., Berta M., Brandini C., Cáceres-Euse A., Capodici F., Cardin V., Cianelli D., Ciraolo G., Corgnati L., Dadić V., Doronzo B., Drago A., Dumas D., Falco P., Fattorini M., Fernandes M. J., Gauci A., Gómez R., Griffa A., Guérin C.-A., Hernández-Carrasco I., Hernández-Lasheras J., Ličer M., Lorente P., **Magaldi M. G.**, Mantovani C., Mihanović H., Molcard A., Mourre B., Révelard A., Reyes-Suárez C., Saviano S., Sciascia R., Taddei S., Tintoré J., Toledo Y., Uttieri M.,

Vilibić I., Zambianchi E., Orfila A., 2022. *Coastal high-frequency radars in the Mediterranean – Part 2: Applications in support of science priorities and societal needs*. Ocean Sci., 18 (3), pp. 797-837, doi:10.5194/os-18-797-2022 (Online ISSN: 1812-0792, Print ISSN: 1812-0784).

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31) Lorente P., Aguiar E., Bendoni M., Berta M., Brandini C., Cáceres-Euse A., Capodici F., Cianelli D., Ciraolo G., Corgnati L., Dadić V., Doronzo B., Drago A., Dumas D., Falco P., Fattorini M., Gauci A., Gómez R., Griffa A., Guérin C.-A., Hernández-Carrasco I., Hernández-Lasheras J., Ličer M., **Magaldi M. G.**, Mantovani C., Mihanović H., Molcard A., Mourre B., Orfila A., Révelard A., Reyes E., Sánchez J., Saviano S., Sciascia R., Taddei S., Tintoré J., Toledo Y., Ursella L., Uttieri M., Vilibić I., Zambianchi E., Cardin V., 2022. *Coastal high-frequency radars in the Mediterranean – Part 1: Status of operations and a framework for future development*. Ocean Sci., 18 (3), pp. 761-795, doi:10.5194/os-18-761-2022 (Online ISSN: 1812-0792, Print ISSN: 1812-0784).

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2020

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July 2015 - [Koszalka, I. M.](#), [Haine T. W. N.](#), [Magaldi M. G.](#), *Mesoscale modulation of mixing and transformation of the Denmark Strait Overflow*, 26th IUGG General Assembly, Prague, Czech Republic

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May 2012 - [Magaldi M. G.](#), *Lagrangian Variational Analysis tutorial*, 4th TOSCA Meeting, Alexandroupolis, Greece

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February 2014 - Carlson D. F., Mantovani C., Corgnati L. P., **Magaldi M. G.**, Zambianchi E., *Lagrangian transport and connectivity in the southern Adriatic Sea from surface drifters and HF-radar observations*, 2014 Ocean Sciences Meeting, Honolulu, HI, USA [[view abstract HTML](#)]

September 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 [[view poster PDF in English](#) | [view poster PDF in Italian](#)]

June 2013 - Koszalka I. M., Haine T. W. N., **Magaldi M. G.**, *Lagrangian pathways and transformation of Denmark Strait Overflow Water in the Irminger Basin*, 19th Conference on Atmospheric and Oceanic Fluid Dynamics, Newport, RI, USA [[view poster PDF](#) | [view abstract HTML](#)]

April 2013 - Berta M., Bellomo L., Griffa A., **Magaldi M. G.**, Marmain J., Molcard A., Taillandier V., *Assimilation of drifters' trajectories in velocity fields from coastal radar and model via the Lagrangian assimilation algorithm LAVA*, 2013 European Geosciences Union General Assembly,

Vienna, Austria [[view poster PDF](#)]

April 2012 - **Magaldi M. G.**, Haine T. W. N., *Hydrostatic and non-hydrostatic simulations of the East Greenland Spill Jet*, 2012 European Geosciences Union General Assembly, Vienna, Austria [[view poster PDF](#)]

April 2012 - Stroobant M., Locritani M., Marini D., Sabbadini L., Carmisciano C., Manzella G., **Magaldi M. G.**, Aliani S., and the DLTM Team, *The Ligurian Cluster for Marine Technologies (DLTM): matching local research and industrial needs on oceanographic data*, 2012 European Geosciences Union General Assembly, Vienna, Austria [[view poster PDF](#)]

December 2005 - **Magaldi M. G.**, Chassignet E. P., *Toward a natural boundary condition for the freshwater fluxes in HYCOM*, 9th HYCOM Consortium Meeting, Miami, FL, USA [[view poster PDF](#)]

September 2004 - **Magaldi M. G.**, Doglioli A. M., Vassallo P., *Aquacultural waste dispersion modelling in Eastern Ligurian coastal waters*, GODAE International Summer School of Oceanography, Lalonde les Maures, France [[view poster PDF](#)]

April 2003 - Conversi A. M., **Magaldi M. G.**, Fonda-Umani S., *Comparison of climate data sets for the analysis of biological time series*, EGS-AGU-EUG Joint Assembly, Nice, France [[view poster PDF](#)]

December 2002 - **Magaldi M. G.**, Doglioli A. M., *A Lagrangian model for the dispersion of nutrients in coastal waters*, 2002 Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics (LAPCOD) meeting, Key Largo, Florida, USA [[view poster HTML](#)]

REVIEWING ACTIVITY

- 18) [Applied Ocean Research](#)
- 17) [Journal of Advances in Modeling Earth Systems](#)
- 16) [Journal of Marine Systems](#)
- 15) [Ocean Dynamics](#)
- 14) [Marine Technology Society Journal](#)
- 13) [Aquatic Conservation: Marine and Freshwater Ecosystems](#)
- 12) [Computational Geosciences](#)
- 11) [Ocean Modelling](#)
- 10) [Journal of Physical Oceanography](#)
- 9) [Ocean Science](#)
- 8) [Remote Sensing](#)
- 7) [Journal of Geophysical Research - Oceans](#)
- 6) [Journal of Coastal Research](#)
- 5) [Quarterly Journal of the Royal Meteorological Society](#)
- 4) [Continental Shelf Research](#)
- 3) [Deep Sea Research, Part I](#)
- 2) [Aquacultural Engineering](#)
- 1) [Aquaculture](#)

DATASETS

- 3) Berta M., Poulain P.-M., Sciascia R., Griffa A., **Magaldi M. G.**, 2021. *CARTHE drifters deployment within the DDR20 - "Drifter demonstration and Research 2020" experiment in the NW Mediterranean Sea [Data set]*. Seano, doi:10.17882/85161 [[published version](#) | [BibTeX entry](#)]
- 2) Berta M., Sciascia R., **Magaldi M. G.**, Griffa A., 2020. *Drifter deployment in the framework of the IMPACT (Port impacts on marine protected areas: transnational cooperative actions) project [Data set]*. Seano, doi:10.17882/72369 [[published version](#) | [BibTeX entry](#)]
- 1) **Magaldi M. G.**, Mantovani C., Cosoli S., 2019. *Current velocities measured by HF radars in Gulf of Trieste - April 2012 [Data set]*. Zenodo, doi:10.5281/zenodo.3245408 [[published version](#) | [BibTeX entry](#)]

POPULARIZATION

May 2019 - **Magaldi M. G.**, *Artico: un mare da esplorare e proteggere*, CREAMCAFE, Palazzo Ducale, Genoa, Italy

December 2017 - **Magaldi M. G.**, *Centro meteo europeo e Brexit: un'occasione da cogliere*, ATLANTE, Treccani, Il Portale del Sapere

April 2017 - **Magaldi M. G.**, *L'innalzamento del livello dei mari e il sensazionalismo mediatico*, ATLANTE, Treccani, Il Portale del Sapere

April 2017 - [Magaldi M. G.](#), *Come si studiano le correnti marine e perché*, CREAMCAFE, Palazzo Ducale, Genoa, Italy

June 2015 - [Magaldi M. G.](#), *Dinamiche delle masse d'acqua marine costiere nel Golfo del Tigullio*, Il Tigullio è anche Mare! Meeting, Auditorium San Francesco, Chiavari (GE), Italy

May 2014 - [Magaldi M. G.](#), *Integrare osservazioni e modelli: l'approccio vincente per le previsioni marine nel Mar Ligure*, Observing the Seas Meeting, Terminal Crociere, La Spezia, Italy

July 2013 - [Cimoli L.](#), [Mazzino A.](#), [Magaldi M. G.](#), *Oil spill simulation: the state of the art of the modelling approach*, RAMOGE PLCP Meeting, Montecarlo, Monaco

April 2013 - [Magaldi M. G.](#), *Artico: un mare da esplorare*, Scientists and high-school students Meeting, CNR Area, Genoa, Italy

ACHIEVEMENTS

2024-current	Chair of the EuroGOOS Fixed Platform Task Team
2024-current	EOOS Operation Committee Steering Committee Member
2024-current	CNR Expert Committee Member for Bilateral Agreements
2023-current	CNR GOOS Working Group Member for the Italian Oceanographic Commission
2022-current	Member of the EuroGOOS High Frequency Radar Task Team
2021-current	Member of the EuroGOOS Fixed Platform Task Team
2021-current	JERICO National Representative
2021-current	CNR representative and Committee Member of the Smart Bay Santa Teresa Agreement
2019	Visiting Professor at the Mediterranean Institute of Oceanography (MIO) - University of Toulon, Toulon, France
2017-current	National Italian Scientific Qualification as University Associate Professor
2016-2023	ISMAR National Councillor
2014	Bjerknes Fellow at the Geophysical Institute, University of Bergen, Bergen, Norway
2011	Session Chair at the 2011 CEAFM-Burgers Research Symposium, The Johns Hopkins University, Baltimore, MD, USA
2003-2009	Tuition Scholarships for full time study at RSMAS/MPO, University of Miami, Miami, FL, USA
2008	Winner of the RSMAS/MPO Best Student Paper Award, University of Miami, Miami, FL, USA
2005-2008	Member of the Scientific Committee of AISA
2003	Graduate Student Examination GRE, Analytical: 780/800, Verbal: 550/800 points
2002	Test Of English as Foreign Language TOEFL, Computer-Based Test: 267/300 points
1999-2005	National Councillor of AISA
1997-1999	President of the Genoese section of AISA
1996-1998	INPDAP Scholarships for school merits
1996	Advanced Open Water Diver (PADI Scuba Diving Course)
1996	Open Water Diver (PADI Scuba Diving Course)
1994	Intercultura (partner of American Field Service programs) Scholarship for two months at the Aquinas College, Perth, WA, Australia
1994	Certificate of Distinction in Year Eleven of the Senior Division of the Australian Mathematics Competition, Perth, WA, Australia

