

Curriculum vitae of Marcello G. Magaldi

July 2024

EDUCATION

May 2009	Ph.D. in Meteorology and Physical Oceanography at the University of Miami, RSMAS/MPO . Thesis: <i>Turbulent coherent structures near coastal capes</i> . 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: <i>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</i> . 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

	<p>Oceanografia Fisica (IOF) Pozzuolo di Lerici (SP), Italy Analysis of coastal data from the SINAPSI project</p>
Jun. 2002 - Nov. 2002	<p>Research Assistant Stazione Zoologica Anton Dohrn Naples, Italy Analysis of the possible relations between plankton and climatological data from the SINAPSI project</p>

TEACHING EXPERIENCES

Summer 2024, A.Y. 2023-2024	<p>Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy</p>
Summer 2023, A.Y. 2022-2023	<p>Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy</p>
Summer 2022, A.Y. 2021-2022	<p>Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy</p>
Summer 2021, A.Y. 2020-2021	<p>Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy</p>
Summer 2020, A.Y. 2019-2020	<p>Fixed-term Contract Professor Course: Mixing processes in air and sea University of Genoa, Genoa, Italy</p>
Fall 2018, A.Y. 2018-2019	<p>Fixed-term Contract Professor Course: Dispersion Processes in the Environmental Engineering University of Genoa, Genoa, Italy</p>
Fall 2017, A.Y. 2017-2018	<p>Fixed-term Contract Professor Course: Dispersion Processes in the Environmental Engineering, Module 2 University of Genoa, Genoa, Italy</p>
Summer 2017, A.Y. 2016-2017	<p>Fixed-term Contract Professor Course: Environmental Fluid Dynamics, Module 2 University of Genoa, Genoa, Italy</p>
Summer 2015, A.Y. 2014-2015	<p>Fixed-term Contract Professor Course: Environmental Fluid Dynamics University of Genoa, Genoa, Italy</p>
Fall 2008	<p>Teaching Assistant Course: Computer Models in Fluid Dynamics, MPO662, taught by Prof. Mohamed Iskandarani University of Miami, Miami, FL, USA</p>
Fall 2008	<p>Teaching Assistant Course: Scientific Programming for Atmospheric Science, MSC321, taught by Prof. Mohamed Iskandarani University of Miami, Miami, FL, USA</p>
Fall 2006	<p>Teaching Assistant Course: Scientific Programming for Atmospheric Science, MSC321, taught by Prof. Mohamed Iskandarani University of Miami, Miami, FL, USA</p>

POSTDOC AND RESEARCH FELLOW ADVISING

Dr. Eléonore Cambra PostDoctoral Research Fellow, 2023 - current	<p>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</p>
Dr. Roberta Sciascia	<p>Advisor</p>

**PostDoctoral Research
Fellow, 2015 - 2018**

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 Ghezzi
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
Engineering, 2021**

Advisor

Thesis: Dispersion and biodegradation processes around a 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

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

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

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 Océans](#) 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

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"
Budget: €2,991,352.29

Oct. 2022 - current

Partecipazione, [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"

Aug. 2022 - current

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
Budget: €113,750.00

Oct. 2020 - current

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

Budget: €193,687.50

Sep. 2020 - current

Partecipazione, [FACTS](#) - "Fluxes and fAte of MiCroplastics in NorThern European WaterS", [JPI Ocean](#) Programme, Ecological Aspects of Microplastics Joint Action

Jun. 2021 - current

Partecipazione, [SINBAD 2.0](#) - "Servizi per la Navigazione e Attività Marittime", POR-CRO Fondo Sociale Europeo Regione Liguria 2014-2020 Asse 1 Ricerca e Innovazione

Feb. 2020 - current

Partecipazione, [JERICO-S3](#) - "Joint European Research Infrastructure of Coastal Observatories: Science, Service, Sustainability", [H2020 European](#) Programme, H2020-INFRAIA-01-2018-2019 Research and Innovation action

Apr. 2019 - Jan. 2023

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
Budget: €575,025.00

Jun. 2018 - Sep. 2022

PI for CNR, [SICOMAR plus](#) - "Sistema transfrontaliero per la sicurezza in mare Contro i rischi della navigazione e per la salvaguardia dell'ambiente MARino - plus", [Interreg Italy-France Marittimo 2014-2020](#) European Programme
Budget: €746,109.08

Mar. 2017 - Oct. 2020

Project coordinator and leading PI, [IMPACT](#) - "Impatto Portuale su aree marine protette: Azioni Cooperative Transfrontaliere", [Interreg Italy-France Marittimo 2014-2020](#) European Programme
Budget: €1,932,234.85

Sep. 2015 - Sep. 2019

Partecipazione, [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

May 2013 - Sep. 2015

Project coordinator, [MHYWAQ-MCA](#) - "Modelling HYdrodynamics and WATER Quality in Marine and Coastal 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-U08, [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

Partecipazione, [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:	<i>Programming:</i> FORTRAN90/77; Visual FORTRAN; Python; <i>Scripting:</i> bash, tcsh, csh. <i>Writing:</i> 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): <i>The FORTRAN 90 for the Intensive Scientific Calculation</i> , 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 SPlasH! , 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 CEA-FM-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 CEA-FM-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

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) Bondoni 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).
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- 32) Reyes E., Aguiar E., Bondoni 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., Mišanović 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., Bondoni 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., Mišanović 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

- 30) von Schuckmann K., Le Traon P.-Y., Smith N., Pascual A., Djavidnia S., Gattuso J.-P., Grégoire M., Nolan G., Aaboe S., Fanjul E. Á., Aouf L., Aznar R., Badewien T. H., Behrens A., Berta M., Bertino L., Blackford J., Bolzon G., Borile F., Bretagnon M., Brewin R. J. W., Canu D., Cessi P., Ciavatta S., Chapron B., Trang Chau T. T., Chevallier F., Chtirkova B., Ciliberti S., Clark J. R., Clementi E., Combot C., Comerma E., Conchon A., Coppini G., Corgnati L. P., Cossarini G., Cravatte S., de Alfonso M., de Boyer Montégut C., De Lera Fernández C., de los Santos F. J., Denvil-Sommer A., de Pascual Collar Á., Dias Nunes P. A. L., Di Biagio V., Drudi M., Embury O., Falco P., d'Andon O. F., Ferrer L., Ford D., Freund H., León M. G., Sotillo M. G., García-Valdecasas J. M., Garnesson P., Garric G., Gasparin F., Gehlen M., Genua-Olmedo A., Geyer G., Ghermandi A., Good S. A., Gourrion J., Greiner E., Griffa A., González M., Hernández-Carrasco I., Isoard S., Kennedy J. J., Kay S., Korosov A., Laanemäe K., Land P. E., Laverne T., Lazzari P., Legeais J.-F., Lemieux B., Levier B., Llovel W., Lyubartsev V., Lien V. S., Lima L., Lorente P., Mader J., **Magaldi M. G.**, Mangin A., Maljutenko I., Mantovani C., Marinova V., Masina S., Mauri E., Meyerjürgens J., Mignot A., McEwan R., Mejia C., Melet A., Menna M., Meyssignac B., Mouche A., Mourre B., Müller M., Notarstefano G., Pardo S., Orfila A., Peneva E., Pérez-Gómez B., Perruche C., Peterlin M., Poulain P.-M., Pinardi N., Quilfen Y., Raudsepp U., Renshaw R., Révelard A., Reyes-Reyes E., Ricker M., Rodríguez-Rubio P., Rotllán P., Gelabert E. R., Rubio A., Ruiz-Parrado I., Sathyendranath S., She J., von Schuckmann K., Solidoro C., Stanev E. V., Staneva J., Storto A., Su J., Bakhsh T. T., Tilstone G. H., Tintoré J., Toledano C., Tournadre J., Tranchant B., Uiboupin R., Valcarcel A., Valcheva N., Verbrugge N., Vrac M., Wolff J.-O., Zambianchi E., Zielinski O., Zunino S., 2020. *Copernicus Marine Service Ocean State Report, Issue 4*. J. Oper. Oceanogr., 13 (S1), pp. S1-S172, doi:10.1080/1755876X.2020.1785097 (ISSN: 1755-876X).
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- June 2019** - Sciascia R., Guizien K., Bramanti L., Padrón M., **Magaldi M. G.**, *Larval flow among red gorgonian populations in the Ligurian sea unveils stepping-stone connections: implications for conservation practice*, [7th LAPCOD Meeting](#), Venice, Italy [[view abstract HTML](#)]
- June 2019** - Berta M., Corgnati L. P., **Magaldi M. G.**, Griffo A., Mantovani C., Poulain P.-M., Oddo P., *Coastal submesoscale structures and variability from drifters and HF radar in the Ligurian Sea (Mediterranean)*, [7th LAPCOD Meeting](#), Venice, Italy [[view abstract HTML](#)]
- June 2019** - Enrile F., Besio G., Stocchino A., **Magaldi M. G.**, Poulain P.-M., *Lagrangian simulations and influence of initial conditions on dispersion calculations*, [7th LAPCOD Meeting](#), Venice, Italy [[view abstract HTML](#)]
- April 2019** - Sciascia R., **Magaldi M. G.**, Vetrano A., Guizien K., *Linking the Tyrrhenian and Ligurian seas: current reversal and flow variability within the Corsica Channel*, [2019 European Geosciences Union General Assembly](#), Vienna, Austria [[view abstract PDF](#)]
- November 2018** - **Magaldi M. G.**, *Il monitoraggio oceanografico per la sicurezza in mare e la protezione dell'ambiente [Monitoring the ocean for the safety and the protection of the environment]*, [Evento di lancio del progetto SICOMAR plus](#), Leghorn, Italy
- November 2018** - **Magaldi M. G.**, *Il progetto IMPACT: obiettivi e realizzazioni [The IMPACT project: objectives and outputs]*, [Conferenza intermedia del progetto IMPACT](#), Toulon, France
- September 2018** - Berta M., Griffo A., Mantovani C., Corgnati L. P., **Magaldi M. G.**, Marini S., Molcard A., Quentin C., Brandini C., Pairaud I., *The North-Western Mediterranean Sea multiplatform observing system: present applications, incoming advancements and future perspectives*, [2nd JERICO-NEXT General Assembly](#), Galway, Ireland
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- April 2018** - Fraser N. J., Inall M. E., **Magaldi M. G.**, Haine T. W. N., Jones S. C., *Wintertime fjord-shelf interaction in Southeast Greenland*, [2018 European Geosciences Union General Assembly](#), Vienna, Austria [[view abstract PDF](#)]
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- November 2017** - Almansi M., Haine T. W. N., Pickart R. S., **Magaldi M. G.**, Gelderloos R., Mastropole D., *Variability in circulation and hydrography in the Denmark Strait*, [Irminger Sea Regional Science Workshop](#), Southampton, UK
- August 2017** - Koszalka I. M., Haine T. W. N., **Magaldi M. G.**, *Mesoscale mixing of the Denmark Strait Overflow in the Irminger Basin*, [2017 IAPSO/IAMAS/IAGA Joint Assembly](#), Cape Town, South Africa
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- May 2017** - **Magaldi M. G.**, *Il progetto Impatto Portuale su aree marine protette: Azioni Cooperative Transfrontaliere [The IMPACT project, port impacts on marine protected areas: transnational cooperative actions]*, [Evento di lancio del progetto IMPACT](#), Florence, Italy
- May 2017** - Sciascia R., **Magaldi M. G.**, *Modelli numerici per esplorare il mare: la componente modellistica di ISMAR-CNR [Numerical models to explore the sea: the modelling component within ISMAR-CNR]*, [Giornata Europea del Mare 2017](#), La Spezia, Italy

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September 2016 - Suaria G., Avio C. G., **Magaldi M. G.**, Regoli F., Aliani S., *Abundance and composition of floating microplastics in the Central-Western Mediterranean Sea*, [7th Late Summer Workshop on Microplastics in the aquatic environment](#), Haltern am See, Germany [[view abstract PDF](#)]

April 2016 - **Magaldi M. G.**, *High-resolution modeling and effects on dispersion of substances at sea*, [2e Journée Scientifique du programme PREVENT](#), University of Toulon, Toulon, France

April 2016 - **Magaldi M. G.**, *The Interreg Marittimo submitted project IMPACT, L'eau en Méditerranée: un projet porté par l'Association de Recherche et de Coopération Euro-Méditerranée*, University of Toulon, Toulon, France

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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

May 2015 - Corgnati L. P., Mazzei L., Marini S., Isoppo B., Ottaviani E., Besio G., **Magaldi M. G.**, *High resolution stereo imaging of sea waves for validation and optimization of wave modelling*, [MTS/IEEE OCEANS'15 Meeting](#), Genoa, Italy

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April 2013 - Bellomo L., Berta M., Gasparini G. P., Griffa A., [Magaldi M. G.](#), Marmain J., Molcard A., Vetrano A., Béguey L., Borghini M., *Observational evidence of mesoscale variability of the Northern Current (North-Western Mediterranean Sea): a combined study via gliders, HF RADAR, surface drifters, and vessel data*, [2013 European Geosciences Union General Assembly](#), Vienna, Austria [[view abstract PDF](#)]

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October 2012 - Cimoli L., [Magaldi M. G.](#), Mazzino A., Mantovani C., Vetrano A., Berta M., Griffa A., Cosoli S., *CODAR-forced dispersion simulations in the Gulf of Trieste*, [5th TOSCA Meeting](#), Trieste, Italy

October 2012 - Koszalka I. M., Haine T. W. N., [Magaldi M. G.](#), *Fates and transformation of Denmark Strait Overflow Water revealed by Lagrangian particles in a high resolution ocean model*, [10th Arctic-Subarctic Ocean Fluxes \(ASOF\) Meeting](#), Lerici (SP), Italy

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April 2012 - [Magaldi M. G.](#), Haine T. W. N., Pickart R. S., *On the nature and variability of the East Greenland Spill Jet*, [2012 European Geosciences Union General Assembly](#), Vienna, Austria [[view abstract PDF](#)]

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February 2011 - [Magaldi M. G.](#), Haine T. W. N., Pickart R. S., *On the nature and variability of the East Greenland Spill Jet*, [POSE Seminar series](#), University of Delaware, Newark, DE, USA

October 2010 - [Magaldi M. G.](#), Haine T. W. N., Pickart R. S., *On the variability of the East Greenland Spill Jet in Summer 2003*, [8th Arctic-Subarctic Ocean Fluxes \(ASOF\) Meeting](#), Woods Hole, MA, USA [[view HTML](#)]

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Maryland, College Park, MD, USA [[view program PDF](#)]

May 2010 - [Magaldi M. G.](#), Özgökmen T. M., Griffa A., Chassignet E. P., Peters H., Iskandarani M., Rixen M., *Turbulent coherent structures near coastal capes*, [Atmosphere-Ocean Science days](#), University of Maryland, College Park, MD, USA [[view abstract HTML](#)]

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September 2009 - [Zambianchi E.](#), Mercatini A., Griffa A., Piterbarg L., [Magaldi M. G.](#), *Implementation of a new simple method to estimate surface velocities from satellite data and numerical models*, [2009 LAPCOD Meeting](#), La Londe-Les-Maures, France [[view abstract HTML](#)]

September 2009 - [De Gaetano P.](#), [Doglioli A. M.](#), [Vassallo P.](#), [Magaldi M. G.](#), *FOAM, the new degradation model coupled with the advection-lagrangian dispersion model: the impact evaluation of the fish farm waste*, [2009 LAPCOD Meeting](#), La Londe-Les-Maures, France [[view abstract HTML](#)]

June 2009 - [Poje A. C.](#), [Haza A.](#), Özgökmen T. M., [Magaldi M. G.](#), *Resolution and Scale Dependence of Relative Dispersion in a Hierarchy of Ocean Models*, [2009 SIAM Conference on Mathematical and Computational Issues in the Geosciences](#), Leipzig, Germany [[view abstract HTML](#)]

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May 2002 - [Magaldi M. G.](#), *Applicazioni di modelli numerici idrodinamici e di dispersione alla maricoltura [Applications of numerical hydrodynamical and dispersion models to mariculture]*, [CNR-ISEC Seminars](#), Lesina (FG), Italy

POSTER PRESENTATIONS

October 2017 - [Almansi M.](#), [Haine T. W. N.](#), [Pickart R. S.](#), [Magaldi M. G.](#), [Gelderloos R.](#), [Mastropole D.](#), *Characteristics and causes of Denmark Strait Overflow transport variability*, [2017 FAMOS School and Meeting](#), Woods Hole, MA, USA [[view poster PDF](#)]

October 2017 - [Almansi M.](#), [Haine T. W. N.](#), [Pickart R. S.](#), [Magaldi M. G.](#), [Gelderloos R.](#), [Mastropole D.](#), *Characteristics and causes of Denmark Strait Overflow transport variability*, [2017 IDIES Annual Symposium](#), Baltimore, MD, USA [[view poster PDF](#) | [view abstract HTML](#)]

May 2017 - [Almansi M.](#), [Haine T. W. N.](#), [Pickart R. S.](#), [Magaldi M. G.](#), [Gelderloos R.](#), [Mastropole D.](#), *Variability in circulation and hydrography in the Denmark Strait*, [2017 US AMOC Science Team Meeting](#), Santa Fe, NM, USA [[view poster PDF](#)]

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May 2016 - [Sciascia R.](#), [Magaldi M. G.](#), *Connectivity pathways to Marine Protected Areas in the Western Mediterranean Sea*, [2016 GHER Colloquium](#), Liège, Belgium [[view poster PDF](#)]

May 2015 - [Porciello L.](#), [Magaldi M. G.](#), Griffa A., Barbolini M., Ferro F., Borghini M., *High-resolution, three-dimensional modeling of the circulation in the Gulf of La Spezia (Northwestern Mediterranean)*, [MTS/IEEE OCEANS'15 Meeting](#), Genoa, Italy [[view poster PDF](#)]

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April 2014 - Koszalka I. M., Haine T. W. N., **Magaldi M. G.**, *Mixing and transformation in the Denmark Strait Overflow*, 2014 European Geosciences Union General Assembly, Vienna, Austria [[view poster PDF](#)]

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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]*. Seanoë, 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]*. Seanoë, 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 Committe 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 CEA FM-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

Revised: July 2024 by Marcello G. Magaldi | valid xhtml | valid css

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679)

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