

PERSONAL INFORMATION

Mario Marcello Miglietta



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ORCID ID <http://orcid.org/0000-0003-2898-1595>

Date of birth 28 September 1970 | Nationality Italian

Current Position Full professor in Atmospheric Physics and Oceanography, University of Bari, Italy / CNR-ISAC Research Associate

RESEARCH INTERESTS

Summary

My research activity focuses on severe weather events, mainly analyzed through numerical simulations that consider the influence of climate change on their occurrence and severity. I have published 117 scientific articles in journals listed in Web-of-Science on different topics of meteorology and climatology, mainly orographic precipitation, tropical-like cyclones in the Mediterranean (Medicanes), supercells and tornadoes. I am currently co-chair of the orographic convection WG in the international TEAMx programme (<http://www.teamx-programme.org>), and the leader of the initiative on the definition of "Medicanes" in the COST Action 19109 - MedCyclones (<https://www.cost.eu/actions/CA19109/>).

Bibliometric Indicators

SCOPUS: h-index 33, citations 2722, documents 121
Google Scholar: h-index 38, citations 3681, i10-index 84
Web-of-Science: h-index 31, citations 2460, documents 117

WORK EXPERIENCE

01/12/2023-present

Full Professor

University of Bari "Aldo Moro", Department of Earth and Geoenvironmental Sciences

01/01/2024-present

CNR-ISAC Research Associate

National Research Council Institute of Atmospheric Sciences and Climate (CNR-ISAC), Padua, Italy

From 01/10/2019 to 30/11/2023

CNR Research Director

From 01/01/2007 to 30/09/2019

CNR Researcher

From 27/12/2001 to 31/12/2006

CNR Techologist

National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR-ISAC), Padua, Italy (from 10/2010 to 10/2012 at CNR-ISE, Verbania Pallanza)

06/2022 to today

Adjoint Professor

College of Agriculture and Natural Resources
University of Tehran (Iran)

Academic year 2018, 2020, 2021, 2023

Adjoint Professor

University of Salento, Lecce, Italy
Professor in the 2nd level Master in Physical Meteorology and Oceanography:
Courses of Synoptic and Mesoscale meteorology (4 CFU), Dynamic Meteorology (4 CFU), Weather Forecasting (2 CFU; only in 2018)

11/2014-11/2016

Visiting Scientist

Joint Research Center, Institute for Energy and Transport, Renewable Energy Unit, Ispra, Italy
Assessment of the complementarity of wind and photovoltaic energy over Europe

04/2011-12/2011 **Consultant**

Joint Research Center, Institute for Environmental Sustainability, Air Quality Unit, Ispra, Italy
WRF model validation over Europe

15/11/2005-20/12/2005 **Visiting Scientist**

Universidade Luterana do Brasil, Porto Alegre, Brasil
WRF model operational implementation

03/2003-12/2018
(18 visits for a total of 23 months)

Visiting Scientist

NCAR, Boulder, Colorado
Collaboration with Richard Rotunno in several projects
(CNR short term mobility 2003, 2004, 2018)

01/03/2004-30/06/2004 **Post-doc researcher**

Atmosphere and Ocean Research Institute, University of Tokyo, Japan
WRF model implementation for the simulation of orographic rainbands

12/1997-06/1998
12/1998-08/1999

External collaborator

FISBAT-CNR, Bologna, Italy
- Numerical simulations of moist flows over orographic obstacles
- Evaluation of error growth and predictability of precipitation in numerical models

01/2001-12/2001

Officer in the Italian Air Force Weather Service

National Center for Aeronautic Meteorology and Climatology, Aeroporto "Mario De Bernardi", Pratica di Mare, Rome, Italy
Aviation weather forecast; Validation of the High-Resolution Model (HRM) over Italy

01/1994-01/2001

Officer in the Italian Air Force Weather Service

61° Stormo, Galatina Airport, Lecce, Italy
Airdrome weather nowcasts and forecasts

EDUCATION AND TRAINING

01/11/1996-10/12/1999

PhD in Physics

University of Lecce, Italy
Thesis: Numerical simulation of moist flows over orography with meteorological limited area models

04/01/1994-10/04/1994

Specialization Course in Meteorology and Atmospheric Physics

Italian Air Force Training Center, Pratica di Mare, Italy
Training for weather forecaster (equivalent to Weather Meteorological Organization level II)

11/1988-30/07/1993

Master degree in Physics

University of Lecce, Italy
Complementary courses of Theoretical Physics; Thesis: Application of quantum groups to physics;
Grade: 110/110 with laude

09/1983-07/1988

Scientific High School

Liceo Scientifico C. De Giorgi, Lecce, Italy
High School; Final grade: 60/60

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

INSTITUTIONAL & OTHER RESPONSIBILITIES

May 2009-January 2016 & September 2019- Nov 2023 Member of the Managing Committee of the Institute

2011-present National representative in the steering committee of the International Conference on Alpine Meteorology (ICAM)

April 2019-Nov 2023 Coordinator of the CNR-ISAC macro-area "Observations and Models for Meteorology and Climate"

January 2023-November 2023 Responsible of CNR-ISAC, Padua unit; member of Padua CNR Research Area Committee

01/01/2019-31/12/2026 (2 4-year mandates) National Representative in the International Association of Meteorology and Atmospheric Science (IAMAS)
Member of the Italian Commission for the participation of the CNR in the International Union of Geodesy (IUGG)

11/12/2018-31/12/2022 Security referent and coordinator – CNR-ISAC, Padua Unit

13/07/2023-present Member of International Commission on Dynamical Meteorology, IAMAS/IUGG

NATIONAL AND INTERNATIONAL GRANTS & AGREEMENTS (as principal investigator/ WP leader)

01/01/2004-31/12/2006 Responsible for the activities of dynamic meteorology for ISAC-CNR in the project "RISK AWARE", European program INTERREG IIIB - area CADSES, coordinator of activity 1.07 "Selection of meteorological models and methodologies for different scenarios"; total project funding: 2,8 M€ (co-funding: 1,4 M€); funding for ISAC-CNR unit: 198 k€;

28/5/2004-22/1/2008 Responsible of Task 3 (meteorological modeling and data assimilation) in the MIUR Project n. 245 "Development of an Integrated system using Numerical models, Instrumentation and Advanced Technologies for the Study and Forecast of the Transport and Diffusion of pollutants in the atmosphere", funded by the Italian Ministry of Education, University and Research (MIUR), decree of the General Director n. 1406, 28/5/2004; funding for the whole project: 375 k€; funding for Task 3: 31 k€;
2005-2006 P.I. of the project "Forecast of meteorological fields in the Otranto Strait" within the Executive Program of implementation of the cooperation program in science and technology between the Government of the Italian Republic and the Government of the Republic of Albania (duration: 24 months); funds: 2 scientific visits;

01/06/2006-30/11/2008 P.I. for ISAC-CNR of the Project "RISKMED", INTERREG III B ARCHIMED region; total funds: 993 k€; funding for ISAC-CNR: 300 k€; member of the Scientific Committee of the project;

20/10/2006-31/12/2010 P.I. for CNR-ISAC of the Project "CLIMESCO" funded by the Italian Integrated Special Fund for Research as part of the Strategic Program "Sustainable development and climate change" and of the Project Objective "Simulations, diagnosis and predictions of climate change" (lead agency: CRA - Agronomic Research Institute); total funding: 2,3 M€, funding for ISAC-CNR: 239 k€; Head of research line 2 – Climate Change;

09/2007-01/2008 P.I. in the research contract n. 1400005194 "Implementing a multi-model system for forecasting meteorological fields - in

4/4/2008-11/10/2010	particular wind on a wind farm site" funded by ENEL SpA, funding: 30 k€; Scientific Leader of WP4 " Limited Area Meteorological Modeling" in the Strategic Project PS080 "Advanced nowcasting using grid and gis tools" as part of the scientific research program of Apulia region; total funding: 990 k€, funding for WP4: 155 k€; member of the Scientific and Technical Committee and of the Committee for the training of young researchers;
2013-2014	Responsible for the Italian activities in the project HyMeX-COOP, ENVI-Med 2012, as part of the activities of Mistral metaprogram funded by the Ministry of Foreign and European Affairs of the French government; total funding of the project: 20k€; funds for ISAC-CNR: 2 scientific visits;
1/6/2016-31/12/2017	P.I. of the Italy-Japan bilateral cooperation project (CNR-JSPS) "Comparison of tornadic supercells and their environmental conditions in Japan and Italy"; total funding for ISAC-CNR: 16 k€;
01/11/2016-31/10/2019	P.I. for ISAC-CNR of the CEASELESS project, Horizon 2020, Call H2020-EO-2016, EO-3-2016 Topic: Evolution of Copernicus services, Type of action: Research and Innovation action; total funding for the project: 1,99 M€; funding for ISAC-CNR: 65 k€;
22/07/2013-21/07/2015	P.I. of the Agreement between ARPA-Puglia and ISAC-CNR for cooperation concerning weather activities;
26/01/2016-25/01/2021	P.I. of the Agreement between ARPA Friuli Venezia Giulia and ISAC-CNR for cooperation concerning weather activities;
13/06/2016-12/06/2019	P.I. of the Agreement with TerrSafeLab Enterprise (Higher Education and Applied Research in Territory Safety Innovation Lab) for cooperation concerning weather activities in the field of nowcasting;
25/01/2017-06/08/2018 & 29/09/2021-28/09/2024 17/10/2019-13/03/2020	P.I. of the Operating Agreement for Teaching and Research Activities between ISAC-CNR and Università del Salento; P.I. for the Italian part of the research project entitled "High-resolution numerical simulations of tornadoes for using artificial intelligence", funded by Meteorological Research Institute (MRI), Japan Meteorological Agency for developing a "Detection method of tornado-spawning mesocyclones using a machine learning technique", Public/Private R&D Investment Strategic Expansion Program (PRISM) sponsored by Cabinet Office of Japan; funding: 7.4 k€;
25/01/2021-26/10/2023	P.I. for the Technical-scientific Collaboration Agreement with the Tide Forecast and Early Warning Center (CPSM) – Civil Protection - Municipality of Venice for the implementation of an experimental data assimilation system for the analysis and weather forecasting for time horizons up to 6-12 hours: MODULE 1: period of activity: 10/01/2021-09/01/2022, funding: 35 k€. MODULE 2: period of activity: 10/01/2022-09/02/2023, funding: 35 k€. MODULE 3: period of activity: 27/10/2022-26/10/2023, funding: 35 k€.
01/09/2023-31/08/2025	Unit Leader for the project "Thunderstorm outflows measurement and modeling for strong-WIND nowcast and RISK mitigation (-WIND RISK)", PRIN 2022, funding for UNIBA109.1 K€

TEACHING ACTIVITY

28-31 May 2001	Lessons during the training course in Environmental Meteorology, at IIA-CNR, Montelibretti (Roma), topic: "3D diagnostic and prognostic meteorological models" (2 hours)
2005,2006,2008 2006 & 2014	Lessons in courses at University of Salento (2005, 2006, 2008) (10,10, 16 hours) Teacher in training courses for the personnel of ARPA Puglia (12 and 94 hours)
2007	Lessons in courses at University of Ferrara (2007) (10 hours)
25-09-2013/12-06-2014 2014	Responsible and organizer of the "personnel training course" for ARPA-Puglia (120 hours) Teacher in a training course for the personnel of OSMER Friuli Venezia Giulia (1.5 hours)
2014-2015 2015	Teacher in a training course for the personnel of Centro Funzionale Protezione Civile Valle d'Aosta (35 hours) Teacher in a training course for the personnel of Centro Funzionale Protezione Civile Friuli Venezia Giulia (16 hours)
2015-2023	Lecturer in the training schools CVC "Convective and Volcanic Clouds detection, monitoring and modeling" (topics: Orographic convection and Medicanes), Castiglione del Lago, Italy, 2015, Tarquinia, Italy, 2016 and 2017, Nicolosi, Italy, 2018, 2019, 2022, 2023 (the last four as keynote lecturer), online, 2021; (4, 6, 6, 10, 6, 4, 4, 2, 1.5 hours)
2016-2019 2017	Lessons in courses at University of Bologna (2016, 2017, 2018, 2019, 2023) (4, 4, 10, 4, 2 hours) Lecturer in the training school "EASI- Exploring Air-Sea interaction via airborne measurements", Shannon (Ireland) (3 hours)
2018, 2020, 2021	Adjunct Professor, University of Salento, Lecce (Italy), Professor in Master (2nd level) in Physical Meteorology and Oceanography. Courses: - Synoptic and Mesoscale meteorology (32 hours; 4CFU) - Dynamic Meteorology (32 hours; 4 CFU) - Weather Forecasting (16 hours; 2 CFU – only in 2018)
13-16/12/2021	Lecturer in a training course for forecasters of ARPA Liguria on "Thermodynamics and atmospheric instability", 12 hours in two editions (24 hours in total), Meteo-Hydrological Center, ARPAL, Genoa
2022	Lecturer in the 8 th CNR-ISAC summer school; lessons on "Extratropical cyclones and Medicanes" (3 hours); June 20-24, 2022, Castro Marina (Lecce), Italy; http://ss2022.le.isac.cnr.it
2022	- Lecturer in the 1 st MedCyclones WORKSHOP and TRAINING SCHOOL; lesson on "Medicanes" (1 hour), June 27 – July 2, 2022, Athens, Greece
2023	Lecturer in the 9 th CNR-ISAC summer school; lessons on "The challenge of precipitation prediction" (3 hours); July 3-7, 2022, Castro Marina (Lecce), Italy; http://ss2023.le.isac.cnr.it Lecturer in the first course AISAM-ItaliaMeteo of operational weather forecasting; 1 hour lecture on orographic precipitation in Italy, Bologna, 23 October 2023
2002-present	-Supervisor of 7 intern, 2 bachelor, 18 master, 7 PhD students. Supervisor of 5 research fellows, 2 researchers (temporary position); host of 11 foreign researchers (from Spain, Japan, Austria, USA) in scientific visits

ORGANIZATION

2005-present	Member of the scientific/organizing committee in 9 summer schools organized/co-organized by ISAC-CNR, Castro Marina, Italy
2007-2023	Convener of sessions at the European Meteorological Society (EMS) annual meeting
29/5-2/6/2018	Member of the scientific/organizing committee in the 11 th HyMeX workshop, Lecce, Italy
3/9/2019	Member of the scientific committee of the Richard Rotunno Symposium, Riva del Garda, Trento, Italy
27/09/2022	Member of the Organizing Committee of the Forecasters–Researchers Round table on high impact meteorological events, Bologna, Italy
18-21/10/2022	Member of the scientific committee of 17 th Plinius Conference, Frascati, Italy
08-12/05/2023	Member of the Scientific Program Committee, 11th European Severe Storms Conference, Bucharest, Romania
19-23/06/2023	Member of the Program Committee of ICAM-2023, St. Gallen, Switzerland
05-09/2/2024	Member of the Scientific and Organizing Committee of the 5 th AISAM Annual meeting, Lecce
30/09-03/10/2024	Member of the Scientific Committee and Co-convener of the Session PL1, 18 th Plinius Conference on Mediterranean Risks, Chania, Greece

FURTHER INFORMATION

Awards	<ul style="list-style-type: none"> - 2004: JSPS short term fellowship (4-month stay in Japan) - 2014 & 2017: Outstanding contribution in reviewing for Atmospheric Research - 2017: The paper "Effect of a positive sea surface temperature anomaly on a Mediterranean tornadic supercell" was one of the 100 most read Earth sciences papers in Scientific Reports in 2017 - 2019: Award MeteoClima FVG of the Unione Meteorologica Friuli Venezia Giulia (member of the European Meteorological Society) for the best paper on the meteorology of the region in the period 2015-2019
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Evaluation of research results

- Reviewer for international journals (36 journals, 146 papers)
- Scientific expert for the Italian Ministry of Education and Research for the evaluation and monitoring activities of the Industrial Research and Experimental Development project AEROMAT (2019-today)
- Member of the Review panel of the Collaborative Research Centre/Transregio 165 "Waves to Weather" of the Deutsche Forschungsgemeinschaft (2019 and 2023)
- Member of the review panel for the evaluation of the proposals submitted in response to the call Horizon 2020- MSCA-IF-2019
- Member in 11 evaluation committee board for PhD candidates and 2 evaluation boards for Associate Professor
- Participation in the Evaluation of the Italian Research 2011-2014
- Atmosphere 2022 Young Investigator Award - Committee Member
- Reviewer of project proposals for: the Czech Science Foundation; the Mardsen Fund Council of the Royal Society of New Zealand; the US National Science Foundation; the United States-Israel Binational Science Foundation, CONICYT-Chile; Italian Ministry of Education and Research (MIUR); Austrian Science Fund (twice); NRD-Hungary; Israeli Ministry of Innovation, Science and Technology; Deutsche Forschungsgemeinschaft; Swiss National Science Foundation
- Editorial activity: Associate Editor for Atmospheric Research; Guest Editor for Advances in Science and Research; Member of the Editorial Board of Advances in Meteorology; Member of the Editorial Board of Bulletin of Atmospheric Science and Technology; Member of the Editorial Board and Section (Meteorology) Board of Atmosphere; Review Editor for Frontiers in Atmospheric Sciences; Guest Editor for a Special Issue of Meteorologische Zeitschrift (over); Member of the Editorial Board of The Scientific World Journal (over); Member of the Editorial Board of Dataset Papers in Geosciences (over);

Additional activities

- Advisory board of the Project "Satellite-borne and IN-situ Observations to Predict the Initiation of Convection for ATM (SINOPTICA)", H2020-SESAR-2019-2, 01/06/2020-30/11/2022
- International review team, Royal Meteorological Society's project to establish a learning portal for African Meteorological Societies (AfMS), 01/08/2022 – 30/11/2022
- Consultant in civil and criminal trials for the Court of Justice in Lecce and for ILVA company

PERSONAL SKILLS

Communication skills	<ul style="list-style-type: none"> ▪ Strong-to-very strong communication skills (certified by EU Competency Passport) ▪ Natural attitude to work as a team member
Organisational / managerial skills	<ul style="list-style-type: none"> ▪ Strong resilience (certified by EU Competency Passport) ▪ Prioritizing ▪ Leadership
Job-related skills	<ul style="list-style-type: none"> ▪ Experience in numerical meteorological modelling, in handling large datasets, in operational forecasting ▪ Experience in project management

ATTACHMENT

- List of the publications in the main research fields

Personal data According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

30 December 2023

List of the main publications

1. D'Adderio L. P., G. Panegrossi, S. Dafis, J.-F. Rysman, D. Casella, P. Sanò, Fucello A., Miglietta M.M., Helios and Juliette: two falsely acclaimed medicanes? *Atmos. Res.*, 299, 2024, 107179; <https://doi.org/10.1016/j.atmosres.2023.107179>
2. Ricchi A., R. Ferretti, M. M. Miglietta, E. Picciotti, M. Montopoli, F. S. Marzano, L. Baldini, G. Vulpiani, A. Tiesi, and R. Rotunno, Analysis of the development mechanisms of a large-hail storm event on the Adriatic Sea, *Atmos. Res.*, 296, 2023, 107079; <https://doi.org/10.1016/j.atmosres.2023.107079>
3. Ricchi A., L. Sangelantoni, G. Redaelli, V. Mazzarella, M. Montopoli, M. M. Miglietta, A. Tiesi, S. Mazzà, R. Rotunno, and R. Ferretti, Impact of the SST and topography on the development of a large-hail storm event, on the Adriatic Sea, *Atmos. Res.*, 296, 2023, 107078; <https://doi.org/10.1016/j.atmosres.2023.107078>
4. González-Alemán J. J., D. Insuà, E. Bazile, S. González-Herrero, M. M. Miglietta, P. Groenemeijer, M. G. Donat, Anthropogenic climate change had a crucial role in triggering the historic and destructive Mediterranean derecho in Summer 2022, *BAMS*, 104, E1526-E1532, 2023, <https://doi.org/10.1175/BAMS-D-23-0119.1>;
5. Flaounas, E., Aragão, L., Bemini, L., Dafis, S., Doiteau, B., Flocas, H., Gray, L. S., Karwat, A., Kouroutzoglou, J., Lionello, P., Miglietta M. M., Pantillon, F., Pasquero, C., Patlakas, P., Picomell, M. A., Porcù, F., Priestley, M. D. K., Reale, M., Roberts, M., Saaroni, H., Sandler, D., Soccimarro, E., Sprenger, M., and Ziv, B.: A composite approach to produce reference datasets for extratropical cyclone tracks: Application to Mediterranean cyclones, *Weather Clim. Dynam.* 4, 639-661, 2023; <https://doi.org/10.5194/wcd-4-639-2023>
6. Ingresso, R., Lionello, P., Miglietta, M. M., and Salvadori, G.: Brief communication: Towards a universal formula for the probability of tornadoes, *Nat. Hazards Earth Syst. Sci.*, 23, 2443–2448, 2023; <https://doi.org/10.5194/nhess-23-2443-2023>;
7. Ferrarin C., F. Pantillon, S. Davolio, M. Bajo, M. M. Miglietta, E. Avolio, D. S. Carrió, I. Pytharoulis, C. Sanchez, P. Patlakas, J. J. González-Alemán, E. Flaounas, Assessing the coastal hazard of Medicane Ianos through ensemble modelling, *NHESS*, *Nat. Hazards Earth Syst. Sci.*, 23, 2273–2287, 2023; <https://doi.org/10.5194/nhess-23-2273-2023>
8. Conte D., Tiesi A., Cheng W., Papa A., Miglietta M. M., Nowcasting of wind in the Venice lagoon using WRF-FDDA, *Atmosphere*, 14, 502, 2023; <https://doi.org/10.3390/atmos14030502>
9. Miglietta M. M., F. Buscemi, S. Dafis, A. Papa, A. Tiesi, D. Conte, S. Davolio, E. Flaounas, V. Levizzani, R. Rotunno, A high-impact meso-beta vortex in the Adriatic Sea, *Q. J. Roy. Meteor. Soc.*, 1-20, 2023; doi:10.1002/qj.4432
10. Avolio E., Miglietta M.M.: A comparative analysis of two Mediterranean tornado hotspots, *Atmosphere*, 2023, 14, 189, <https://doi.org/10.3390/atmos14010189>
11. Davolio S., Vercellino M., Miglietta M. M., Drago Pitura L., Laviola S., Levizzani V.: The influence of an atmospheric river on a heavy precipitation event over the Alps, *Weather and Climate Extremes*, 39, 100542, 2023; <https://doi.org/10.1016/j.wace.2022.100542>
12. Avolio E., Miglietta M. M.: Tornadoes in the Tyrrhenian regions of the Italian peninsula: the case study of 28 July 2019, *Atmos. Res.*, **278**, 106285, 2022; <https://doi.org/10.1016/j.atmosres.2022.106285>
13. Manzato A., Serafin S., Miglietta M. M., Kirshbaum D., Schultz W.: A pan-Alpine climatology of lightning and convective initiation, *Mon. Wea. Rev.*, 150, 2213-2230, 2022, <https://doi.org/10.1175/MWR-D-21-0149.1>
14. Tiesi A., Mazzà S., Conte D., Ricchi A., Baldini L., Montopoli M., Ferretti R., Miglietta M. M., Numerical simulation of a giant-hail-bearing Mediterranean supercell in the Adriatic Sea, *Atmosphere*, 2022, 13, 1219, <https://doi.org/10.3390/atmos13081219>
15. Mesbahzadeh, T., Miglietta, M.M., Soleimani Sardoo, F., Krakauer, N., Hasheminejad, M.: Regional analysis of dust day duration in Central Iran, *Appl. Sci.*, 12, 6248, 2022, <https://doi.org/10.3390/app12126248>
16. Soleimani Sardoo, F., Mesbahzadeh, T., Salajeghe, A., Zehtabian, G., Ranjbar, A., Miglietta, M.M., Krakauer, N.: Antecedent Soil Moisture Conditions Influenced Vertical Dust Flux: A Case Study in Iran using WRF-Chem Model, *Land*, 11, 2022, 819, <https://doi.org/10.3390/land11060819>
17. Avolio E., Miglietta M. M.: Tornadoes in the Tyrrhenian regions of the Italian peninsula: the case study of 28 July 2019, *Atmos. Res.*, 106285, 2022; <https://doi.org/10.1016/j.atmosres.2022.106285>
18. Flaounas, E., Davolio, S., Raveh-Rubin, S., Pantillon, F., Miglietta, M. M., Gaertner, M. A., Hatzaki, M., Homar, V., Khodayar, S., Korres, G., Kotroni, V., Kushta, J., Reale, M., and Ricard, D.: Mediterranean cyclones: Current knowledge and open questions on dynamics, prediction, climatology and impacts, *Weather Clim. Dynam.*, 3, 173-208, 2022, <https://doi.org/10.5194/wcd-2021-55>
19. Miglietta, M. M. and Davolio, S.: Dynamical forcings in heavy precipitation events over Italy: lessons from the HyMeX SOP1 campaign, *Hydrol. Earth Syst. Sci.*, 26, 627–646, 2022, <https://doi.org/10.5194/hess-26-627-2022>
20. Avolio E., Miglietta M.M.: Multiple tornadoes in southeastern Italy: observations, sensitivity tests and mesoscale analysis of convective storm environmental parameters, *Atmos. Res.*, 263, 105800, 2021, <https://doi.org/10.1016/j.atmosres.2021.105800>
21. Ricchi A., Bonaldo D., Cioni G., Carniel S., Miglietta M.M., Simulation of a flash-flood event over the Adriatic Sea with a high-resolution atmosphere-ocean-wave coupled system, *Scientific Reports*, 11, 9388, 2021, <https://doi.org/10.1038/s41598-021-88476-1>
22. Sanchez-Arcilla A., J. Staneva, L. Cavaleri, M. Badger, J. Bidlot, J. T. Sorensen, L. B. Hansen, A. Martin, A. Saulter, M. Espino, M. M. Miglietta, M. Mestres, D. Bonaldo, P. Pezzutto, J., Schulz-Stellenfleth, J., Wiese, A., X. Larsen, S. Carniel, R. Bolaños, S. Abdalla, A. Tiesi, The CMEMS coastal dimension. Conditioning, coupling and limits for applications, *Front. Mar. Sci.* 8:604741, 180, doi:10.3389/fmars.2021.604741;

23. Tiesi A., Bonaldo D., Ricchi A., Carniel S., Miglietta M. M., Initialization of WRF model simulations of Sentinel-1 wind speed for severe weather events, *Front. Mar. Sci.* 8, 169, doi:10.3389/fmars.2021.573489;
24. Bagaglini L., Inghrosso R., Miglietta M. M., Synoptic patterns and mesoscale precursors of Italian tornadoes, *Atmos. Res.*, 253, 105503, 2021, <https://doi.org/10.1016/j.atmosres.2021.105503>;
25. Miglietta M.M., Carnevale D., Levizzani V., Rotunno R., Role of moist and dry air advection in the development of Mediterranean Tropical-Like Cyclones (Medicanes), *Q. J. Roy. Meteor. Soc.*, 147, 876-899, 2021, 10.1002/qj.3951;
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