


PERSONAL INFORMATION

Mario Marcello Miglietta



 National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR-ISAC), corso Stati Uniti 4, 35127, Padua, Italy

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Date of birth 28 September 1970 | Nationality Italy

Current Position Research Director at CNR-ISAC

RESEARCH INTERESTS

Summary

My research interests concern severe weather events analyzed mainly using numerical modelling. My focus is on orographic precipitation, tropical-like cyclones in the Mediterranean (Medicanes), supercells and tornadoes. I got the Italian Habilitation as Full Professor in “Astronomy, Astrophysics, Earth and planetary physics” and in “Geophysics”.

I have published more than 100 scientific papers in ISI journals on various topics in meteorology and climatology.

Currently, I am co-chair of the orographic convection WG in **TEAMx** international programme (<http://www.teamx-programme.org>), leader of the Medicane definition initiative (in WG1) in COST Action 19109 - MedCyclones (<https://www.cost.eu/actions/CA19109/>), member of the steering committee of the International Conference on Alpine Meteorology (ICAM) since 2011.

I participated in international field campaigns (HyMeX).

Bibliometric Indicators

SCOPUS: h-index 27, citations 1985, documents 101

Google Scholar: h-index 33, citations 2814, i10-index 70

WORK EXPERIENCE

From 01/01/2019 to today

CNR Research Director

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

CNR Researcher

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

CNR Techologist

Currently at: National Research Council of Italy - Institute of Atmospheric Sciences and Climate (CNR-ISAC), corso Stati Uniti 4, 35127, Padua, Italy

Academic year 2018, 2020-2021

Adjoint Professor

University of Salento, Lecce, Italy

Professor in Master (2nd level) in Physical Meteorology and Oceanography:

Courses of Synoptic and Mesoscale meteorology, Dynamic Meteorology, Weather Forecasting

10/2016, 08/2017

Visiting Scientist

Atmosphere and Ocean Research Institute, University of Tokyo, Tokyo, Japan

WRF model implementation for the simulation of tornadoes

11/2014-11/2016

Visiting Scientist

Joint Research Center, Institute for Energy and Transport, Renewable Energy Unit, Ispra, Varese, Italy

Assessment of the complementarity of wind and photovoltaic sources over Europe

04/2011-12/2011 Consultant

Joint Research Center, Institute for Environmental Sustainability, Air Quality Unit, Ispra, Varese, 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

01/03/2004-30/06/2004 4-month Post-doc researcher

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

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

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

01/1994-01/2001 Officer in the Italian Air Force Weather Service

61° Stormo - Strada Provinciale 362 – Galatina, Lecce, Italy
Airdrome weather nowcast and forecast

EDUCATION AND TRAINING**01/11/1996-10/12/1999 PhD in Physics**

University of Lecce, Italy
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
Study in General Physics; Thesis: Application of quantum groups; Grade: 110/110 with laude

09/1983-07/1988 Scientific High School Diploma

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	B1	B1	A2	A2	B1

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

INSTITUTIONAL RESPONSIBILITIES

- May 2009-January 2016 & September 2019-today: Member of the Managing Committee of the Institute
- April 2019-today: Coordinator of CNR-ISAC macro-area "Observations and Models for Meteorology and Climate"
- 01/01/2019-today: National Representative in the International Association of Meteorology and Atmospheric Science (IAMAS) and Member of the Italian Commission for the participation of the CNR in the International Union of Geodesy (IUGG)

NATIONAL AND INTERNATIONAL GRANTS & AGREEMENTS (as principal investigator)

- 2004-2006: 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"; period of activity: 01/01/2004-31/12/2006; total project funding: 2,801 M€ (co-funding: 1,451 M€); funding for ISAC-CNR unit: 198 k€;
- 22/5/2004-22/1/2008: 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€; P.I. project "Forecast of meteorological fields in the Otranto Strait" within the Executive Program of implementation of the cooperation programme 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;
- 2005-2007: 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;
- 01/06/2006-30/11/2008: P.I. for CNR-ISAC of the Project "CLIMESCO" funded by the Italian Integrated Special Fund for Research as part of the Strategic Programme "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: 2,352 M€, funding for ISAC-CNR: 239 k€; Head of research line 2 – Climate Change;
- 20/10/2006-31/12/2010: P.I. in the research contract n. 1400005194 "Implementing a multi-model system for forecasting meteorological fields - in particular wind on a wind farm site" funded by ENEL, funding: 30 k€;
- 09/2007-01/2008: Scientific Leader of WP4 "Limited Area Meteorological Modeling" in the Strategic Project PS080 "Advanced nowcasting using grid and gis tools" as part of the program of scientific research of Puglia 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;
- 4/4/2008-11/10/2010: 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;
- 2013-2014: 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€;
- 1/6/2016-31/12/2017: 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€;
- 01/11/2016-31/10/2019: P.I. of the Agreement between ARPA-Puglia and ISAC-CNR for cooperation concerning weather activities;
- 22/07/2013-21/07/2015: P.I. of the Agreement between ARPA Friuli Venezia Giulia 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 P.I. of the Operating Agreement for Teaching and Research Activities between ISAC-CNR and the University del Salento;
- 17/10/2019-13/03/2020 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€;
- 25/01/2021-24/01/2023 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, funding: 70 k€.

TEACHING ACTIVITY

- 28-31 May 2001 - Teacher in the course of Environmental Meteorology, at IIA-C.N.R., Montelibretti (Roma), (topic: "3D diagnostic and prognostic meteorological models" (2 hours)
- 2005,2006,2008 - Lessons in courses at University of Salento (2005, 2006, 2008) (10,10, 16 hours)
- 2006 & 2014 - 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 - Responsible and organizer of the "personnel training course" for ARPA-Puglia (120 hours)
- 2014 - Teacher in a training course for the personnel of OSMER Friuli Venezia Giulia (1.5 hours)
- 2014-2015 - Teacher in a training course for the personnel of Centro Funzionale Protezione Civile Valle d'Aosta (35 hours)
- 2015 - Teacher in a training course for the personnel of Centro Funzionale Protezione Civile Friuli Venezia Giulia (16 hours)
- 2015-2019 & 2021 - Lecturer in the training schools on "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 (the last two as keynote lecturer), online, 2021; (4, 6, 6, 10, 6, 1.5 hours)
- 2016-2019 - Lessons in courses at University of Bologna (2016, 2017, 2018, 2019) (4, 4, 10, 4 hours)
- 2017 - 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;
- 2002-today -Supervisor of 7 intern, 2 bachelor, 15 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 OF SCIENTIFIC MEETINGS

- 2005-today Member of the scientific/organizing committee in 9 summer schools organized/co-organized by ISAC-CNR, Castro Marina, Italy
- 2007-present Convener of sessions at the European Meteorological Society (EMS) annual meeting
- 29/5-2/6/2018 Member of the scientific/organizing committee in the 11th HyMeX workshop, Lecce, Italy
- 3/9/2019 Member of the scientific committee of the Richard Rotunno Symposium, Riva del Garda, Trento, Italy
- 18-21/10/2022 Member of the scientific committee of 17th Plinius Conference, Frascati, Italy
- 19-23/06/2023 Member of the scientific committee of ICAM2023, St. Gallen, Switzerland

FURTHER INFORMATION

National and international acknowledgements

- 2014 & 2017: Outstanding contribution in reviewing for Atmospheric Research (2014 and 2017)
- 2017: The paper "Effect of a positive sea surface temperature anomaly on a Mediterranean tornadic supercell" has been one of the 100 most read Earth sciences papers for 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 weather of the region in the last 5 years (2015-2019).

Evaluation of research results

- Reviewer for international journals (36 journals, 141 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 in 9 evaluation committee board for PhD candidates and 2 evaluation boards for Associate Professor
- Participation in the Evaluation of the Italian Research 2011-2014
- 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, Deutsche Forschungsgemeinschaft, CONICYT-Chile; European Commission (MSCA-IF-2019); Italian Ministry of Education and Research (MIUR); Austrian Science Fund (twice);

-Editorial activity: Associate Editor for Atmospheric Research; Guest Editor for Advances in Science and Research; Guest Editor for a Special Issue of Atmosphere; Member of the Editorial Board of Advances in Meteorology; 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); Member of the Editorial Board of Bulletin of Atmospheric Science and Technology; Member of the Editorial Board of Atmosphere; Review Editor for Frontiers in Atmospheric Sciences

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
- Consultant in civil and criminal trials for the Court of Justice in Lecce and for ILVA company

PERSONAL SKILLS

Communication skills

- Strong-to-very strong communication skills (certified by EU Competency Passport) gained through the experience as aviation weather forecaster (daily oral briefings), as a university professor, and as a chairman and speaker in several conferences and in summer schools
- Natural attitude to work as a team member

Organisational / managerial skills

- Strong resilience (certified by EU Competency Passport)
- Prioritizing (organization of work tasks proceeding with different levels of priority)
- Leadership (coordinator of research area; P.I. in projects and supervisor in several thesis)

Job-related skills

- 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 (in the last ten years)

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

Padua, 04/05/2022

List of the publications in the main research field (in the last ten years)

1. 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>
2. 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>.
3. 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>
4. Ricchi A., Bonaldo D., Cioni G., Camiel 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>
5. 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. Camiel, 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;
6. Tiesi A., Bonaldo D., Ricchi A., Camiel 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;
7. Bagaglini L., Ingrosso 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>;
8. 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;
9. Tochimoto E., Miglietta M.M., Bagaglini L., Ingrosso R., Niino H., Characteristics of Extratropical Cyclones that Cause Tornadoes in Italy: A Preliminary Study, *Atmosphere*, 2021, 12, 1-13, 10.3390/atmos12020180;

10. Rizza U., E. Canepa, M. M. Miglietta, G. Passerini, M. Morichetti, E. Mancinelli, S. Virgili, G. Besio, F. De Leo, A. Mazzino, Evaluation of drag coefficients under Medcane conditions: coupling waves, sea spray and surface friction, *Atmos. Res.*, 247, 105207, 2021, <https://doi.org/10.1016/j.atmosres.2020.105207>;
11. Mesbahzadeh T.; A. Salajeghe, F. Soleimani Sardoo, G. Zehtabian, A. Ranjbar, N. Y. Krakauer, Miglietta M.M., M. Mirakbari, Climatology of Dust Days in the Central Plateau of Iran, *Natural Hazards*, 104, 1801-1817, 2020, <https://doi.org/10.1007/s11069-020-04248-6>;
12. Manzato A., Riva V., Tiesi A., Miglietta M.M., Analysis of the 4 July 2007 hailstorm in NE Italy, *Q. J. Roy. Meteor. Soc.*, 146, 3587-3611, 2020, <https://doi.org/10.1002/qj.3886>;
13. Davolio S., S. Della Fera, S. Laviola, M. M. Miglietta, V. Levizzani, An atmospheric river in the Mediterranean basin: the 29 October 2018 "Vaia" storm over Italy, *Mon. Wea. Rev.*, 148, 3571-3588, 2020, <https://doi.org/10.1175/MWR-D-20-0021.1>;
14. Avolio, E., Peynaud, L., Nisi, L., Panziera L., Miglietta, M. M., A multi-sensor and modeling analysis of a severe convective storm in Lake Maggiore area (northwestern Italy), *Atmos. Res.*, 242, 105008, 2020, <https://doi.org/10.1016/j.atmosres.2020.105008>;
15. Mesbahzadeh T.; A. Salajeghe, F. Soleimani Sardoo, G. Zehtabian, A. Ranjbar, Miglietta M.M., S. Karami, N. Y. Krakauer, Spatial-temporal variation characteristics of Vertical Dust Flux simulated by WRF-Chem model with GOCART and AFWA dust emission schemes (case study: Central Plateau of Iran), *Appl. Sci.*, 10 (13), 4536, 2020; doi:10.3390/app10134536;
16. Ingresso R., Lionello P., Miglietta M. M., Salvadori G., A statistical investigation of mesoscale precursors of significant tornadoes: the Italian case study, *Atmosphere*, 2020, 11, 301, doi:10.3390/atmos11030301;
17. Rizza U., E. Mancinelli, E. Canepa, J. Piazzola, T. Missamou, C. Yohia, M. Morichetti, S. Virgili, G. Passerini, M. M. Miglietta, WRF sensitivity analysis in wind and temperature fields simulation for the Northern Sahara and the Mediterranean basin to model dust and sea spray emissions, *Atmosphere*, 11(3), 2020, 10.3390/atmos11030259;
18. Mesbahzadeh T.; M. Mirakbari; F. Soleimani Sardoo; M.M. Miglietta; N. Krakauer; N. Alipour, Observed and Projected Trends of Extreme Precipitation and Maximum Temperature Using REMO Model and Copula Theory during 1992-2100 in Isfahan Province, Iran, *Natural Resource Modeling*, 33, 2020, e12254, 10.1111/nrm.12254;
19. Pucillo A., Miglietta M.M., Lombardo K., Manzato A., Application of a simple analytical model to the study of a bow echo-like storm in Northeastern Italy, *Met. Appl.*, 27, e1868, 1-18, 2020, 10.1002/met.1868;
20. Miglietta M.M., Arai K., Kusunoki K., Inoue H., Adachi T., Niino H., Observational analysis of two waterspouts in northwestern Italy using an OPERA Doppler radar, *Atmos. Res.*, 234, 104692, 2020, 10.1016/j.atmosres.2019.104692;
21. Mesbahzadeh T., M. Mirakbari, Mohseni Saravi M., F. Soleimani Sardoo, M.M. Miglietta, Meteorological drought analysis using copula theory and drought indicators under climate change scenarios (RCP), *Meteorol Appl.*, 27, e1856, 2020, <https://doi.org/10.1002/met.1856>;
22. Papandrea E., Casadio S., Castelli E., Dinelli B.M., Miglietta M. M.: Lee waves detection over the Mediterranean Sea using the Advanced Infra-Red Water Vapour Estimator (AIRWAVE) Total Column Water Vapor (TCWV) dataset, *Atmos. Meas. Tech.*, 12, 6683–6693, 2019, <https://doi.org/10.5194/amt-12-6683-2019>;
23. Mesbahzadeh T., M. M. Miglietta, M. Mirakbari, F. Soleimani Sardoo, M. Abdolhoseini, Joint Modelling of Precipitation and Temperature using Copula theory for current and future prediction under climate change scenarios in arid lands (case study, Kerman province, Iran), *Advances in Meteorology*, Volume 2019, Article ID 6848049, 15 pages, <https://doi.org/10.1155/2019/6848049>;
24. Miglietta M.M., Editorial, Mediterranean tropical-like cyclones (Medicanes), *Atmosphere*, 10 (4), 206; doi:10.3390/atmos10040206, 2019;
25. Ricchi A., M. M. Miglietta, D. Bonaldo, G. Cioni, U. Rizza, and S. Camiel, Multi-physics ensemble versus atmosphere-ocean coupled model simulations for a Tropical-Like Cyclone in the Mediterranean Sea, *Special Issue Mediterranean Tropical-like cyclones (Medicanes)*, *Atmosphere*, 10 (4), 202, doi:10.3390/atmos10040202, 2019;
26. Miglietta M.M., Rotunno R., Development mechanisms for Mediterranean tropical-like cyclones (Medicanes), *Q. J. Roy. Meteor. Soc.*, 145, 1444-1460, 2019; doi:10.1002/qj.3503;
27. Tateo A., Miglietta M.M., Fedele F., Menegotto M., Pollice A., Belotti R., A statistical method based on Ensemble probability density function for the prediction of "Wind Days", *Atmos. Res.*, 216, 106-116, 2019;
28. Pytharoulis I., S. Kartsios, I. Tegoulis, H. Feidas, M. M. Miglietta, I. Matsangouras, T. Karacostas, Sensitivity of a Mediterranean tropical-like cyclone to physical parameterizations, *Atmosphere*, Special Issue Mediterranean Tropical-like cyclones (Medicanes), 9 (11), 436, 2018; <https://doi.org/10.3390/atmos9110436>;
29. Rizza U., Canepa E., Ricchi A., Bonaldo D., Carniel S., Morichetti M., Passerini G., Santiloni L., Scremin Puhales F., Miglietta M.M., Influence of wave state and sea spray on the roughness length: feedbacks on Medicanes, *Atmosphere*, 9(8), 301, Special Issue Mediterranean Tropical-like cyclones (Medicanes), 2018, <https://doi.org/10.3390/atmos9080301>;
30. Gaertner M. A., J. J. Gonzalez-Aleman, R. Romera, M. Dominguez, V. Gil, E. Sanchez, C. Gallardo, M. M. Miglietta, K. Walsh, D. Sein, S. Somot, A. dell'Aquila, C. Teichmann, B. Ahrens, E. Buonomo, A. Colette, S. Bastin, E. van Meijgaard, G. Nikulin, Simulation of medicanes over the Mediterranean Sea in a regional climate model ensemble: impact of ocean-atmosphere coupling and increased resolution, *Climate Dynamics*, 51, 1041-1057, 2018, doi:10.1007/s00382-016-3456-1;
31. Miglietta M. M., Matsangouras I., An updated "climatology" of tornadoes and waterspouts in Italy, *International Journal of Climatology*, 38, 3667-3683, 2018, <https://doi.org/10.1002/oc.5526>
32. Rizza U., M. M. Miglietta, C. Mangia, P. Ielpo, M. Morichetti, C. Iachini, S. Virgili, G. Passerini, Sensitivity of WRF-Chem model to land surface schemes: Assessment in a severe dust outbreak episode in the Central Mediterranean (Apulia Region), *Atmos. Res.*, 201, 268-280, 2018, 10.1016/j.atmosres.2017.10.022;
33. Mazon J., J. I. Rojas, M. Lozano, D. Pino, X. Prats, and M. Miglietta, Influence of meteorological phenomena on worldwide aircraft accidents in the period 1967-2010, *Meteorological Applications*, 24(5), 236-245, 2018; DOI: 10.1002/met.1686;
34. Miglietta M. M., Mazon J., Motola V., Pasini A., Effect of a positive Sea Surface Temperature anomaly on a Mediterranean tomadic supercell, *Scientific Reports*, 7, 12828, 1-8, 2017, DOI:10.1038/s41598-017-13170-0;
35. Ricchi, A., M. M. Miglietta, F. Barbariol, A. Benetazzo, A. Bergamasco, D. Bonaldo, C. Cassardo, F. M. Falcieri, G. Modugno, A. Russo, M. Sclavo, S. Camiel, Sensitivity of a Mediterranean tropical-like cyclone to different model configurations and coupling strategies, *Atmosphere*, 8, 92, 1-32, 2017; doi:10.3390/atmos8050092;
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