

PERSONAL INFORMATION



Mario Marcello Miglietta

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Date of birth 28 September 1970 | Nationality Italian

Current Position Research Director at CNR-ISAC

RESEARCH INTERESTS

Summary

My research activity is focused on severe weather events, mainly analyzed through numerical simulations that consider the influence of climate change on their occurrence and severity. I have published 111 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 got the Italian Habilitation as Full Professor in "Astronomy, Astrophysics, Earth and planetary physics" and in "Geophysics". 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 31, citations 2356, documents 112
Google Scholar: h-index 36, citations 3159, i10-index 77
Web-of-Science: h-index 29, citations 2195, documents 111

WORK EXPERIENCE

From 01/10/2019 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), 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

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)

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

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	B1	B2	A2	A2	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-present	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-present	Coordinator of the CNR-ISAC macro-area "Observations and Models for Meteorology and Climate"
January 2023-present	Responsible of CNR-ISAC, Padua unit
01/01/2019-present	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

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 particular wind on a wind farm site" funded by ENEL SpA, funding: 30 k€;
4/4/2008-11/10/2010	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 Mistrals 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	P.I. of the Operating Agreement for Teaching and Research Activities between ISAC-CNR and Università del Salento;
17/10/2019-13/03/2020	

25/01/2021-24/01/2023

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€;

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€.

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	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 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 (the last three as keynote lecturer), online, 2021; (4, 6, 6, 10, 6, 4, 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
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
2002-present	-Supervisor of 7 intern, 2 bachelor, 16 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-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 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, 11 th European Severe Storms Conference, Bucharest, Romania
19-23/06/2023	Member of the Program Committee of ICAM-2023, St. Gallen, Switzerland

FURTHER INFORMATION

Awards	- 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, 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

-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

-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 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 - present

- 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)
- Natural attitude to work as a team member

Organisational / managerial skills

- Strong resilience (certified by EU Competency Passport)
- Prioritizing
- Leadership

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

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, 15/02/2023

Signature: Mario Miglietta

List of the main publications

1. 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
2. Avolio E., Miglietta M.M.: A comparative analysis of two Mediterranean tornado hotspots, Atmosphere, 2023, 14, 189, <https://doi.org/10.3390/atmos14010189>
3. 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>
4. 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>
5. 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>

6. 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>
7. 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>
8. Soleimani Sardoo, F., Mesbahzadeh, T., Salajeghe, A., Zehabian, 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>
9. 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>
10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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;
16. 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;
17. Bagaglini L., Ingrassio 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>;
18. 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;
19. Tochimoto E., Miglietta M.M., Bagaglini L., Ingrassio R., Niino H., Characteristics of Extratropical Cyclones that Cause Tornadoes in Italy: A Preliminary Study, *Atmosphere*, 2021, 12, 1-13, 10.3390/atmos12020180;
20. 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 Medican conditions: coupling waves, sea spray and surface friction, *Atmos. Res.*, 247, 105207, 2021, <https://doi.org/10.1016/j.atmosres.2020.105207>;
21. Mesbahzadeh T.; A. Salajeghe, F. Soleimani Sardoo, G. Zehabian, 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>;
22. 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>;
23. 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>;
24. 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>;
25. Mesbahzadeh T.; A. Salajeghe, F. Soleimani Sardoo, G. Zehabian, 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;
26. Ingrassio 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;
27. 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;
28. 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;
29. 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;
30. 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;
31. 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>;
32. 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>;
33. 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>;
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