

PERSONAL INFORMATION

Paola Mercogliano



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Sex Female | Nationality Italian

POSITION

- Fondazione CMCC (Euro-Mediterranean Centre on Climate Change)
- Adjunct Professor of Advanced Meteorology at University of Naples Parthenope
- Member of the board of the Italian Society of Climatology (SISC)
- ANVUR accredited researcher from 2004
- Head of the CMCC Climate Service CLIME (www.dataclime.com)
- Member of the commission on climate change, infrastructure and sustainable mobility of the Italian Ministry of infrastructure and sustainable mobility.

MAIN ACTIVITIES

Meteorology, Climatology, Climate Change impact, adaptation to Climate Change, Development of weather and climate services, development of NWP and RCM models.

WORK EXPERIENCE

01/01/2005–Present

C.M.C.C. Foundation (on leave from C.I.R.A. Italian Aerospace Research Center)

- **2015 – ongoing:** Division Research Division Regional Models and geo-hydrological Impact Division of the C.M.C.C. Foundation (Euro- Mediterranean centre on Climate Change) (<http://www.cmcc.it/divisions/remhi>).
- **2006-2014:** Scientific manager of the task "Impacts on Territory Monitoring and Prevention of Hydrogeological Disasters" in the CMCC research division "Impacts on the soil and coasts" (http://www.cmcc.it/research/research-units/isc/isc-ma2?set_language=en)

CMCC Collaboration Agreement:

- **2017-on going:** CMCC contact person in the context of the meteorological activities established in collaboration with COMET (Operational Center for Meteorology of the Italian Air Force)
- **2017-on going:** CMCC contact person in the context of the collaboration with CRISP ((Interdepartmental Research Center on the "Earth Critical Zone" to support Landscape and Agro-Environment Management))
- **2002-2017: CMCC** contact person in the context of the collaboration with the Campania Basin Authority
- **2019- on going:** CMCC contact person in the context of the collaboration with I.R.C.C.S. NEUROMED.

CMCC Scientific activities including

- **2019- ongoing:** Leader of the service contract C3S_430 Sectoral Information System to Support Disaster Risk Reduction funded by the COPERNICUS program (<https://climate.copernicus.eu/pluvial-flood-risk-assessment-urban-areas>)
- **2019- on going:** CMCC leader of the consultancy service for ENEL Foundation "Climate proofing in investments and spatial planning" <https://www.enelfoundation.org/topic/a/2020/04/climate-proofing-in-investments-and-spatial-planning>
- **2019-on going:** researcher in the project SAM-PS- Study on Adaptation Modelling Founded by DG Climate Action and leader of the Work Package on Dissemination <https://www.cmcc.it/it/projects/sam-ps-study-on-adaptation-modelling>

- **2020-on going:** CMCC leader for the project “A Natural thread. A community that participates to transform the challenge of climate change into an opportunity” funded by Bando Cariplo coordinated by the municipality of Brescia.
- **2015-on going:** CMCC leader for the consultancy service WEC (Wat-Ener-Cast) led by ARIA Technologies for the weather support to weather operators (currently adopted on France and Ecuador)
- **2016 – on going: CMCC consultant** for PNACC (National Plan for Adaptation to Climate Change), founded by Italian ministry of Environment, as head of CMCC for geo-hydrological risk and for the climate zoning. Also, among the authors for the chapter concerning risks in urban settings and the energy field. http://www.minambiente.it/sites/default/files/archivio_immagini/adattamenti_climatici/documeto_pnacc_luglio_2017.pdf; consultant, for the Italian Ministry in charge, for the drafting of the “Italian long-term strategy on the reduction of the greenhouse gas emissions” https://www.minambiente.it/sites/default/files/lts_gennaio_2021.pdf in particular for the ‘development of trends and climatic analyses.
- **2019- on going:** CMCC consultant for the Italian Ministry of Environment for the drafting of the SEA (Strategic Environmental Assessment) of the National Plan for Adaptation to Climate Change (PNACC)
- **2019:** Among the CMCC consultants of the Italian document “2030 INTEGRATED NATIONAL PLAN FOR ENERGY AND CLIMATE” funded by the Italian Ministry of Economic Development
- **2019: CMCC** coordinator consultancy service for Polytechnic of Torino within the ALCOTRA - ARTACLIM project (<http://www.artaclim.eu/index.php/it/>).
- **2018–2019:** coordinator consultancy service for ARPA PIEMONTE within the ALCOTRA-CLIMAERA project (<https://www.climaera.eu/it/>) concerning elaboration off Climate scenarios supporting further development of air quality scenarios.
- **2018:** Scientific coordinator CMCC consultancy service for the Municipality of Cuneo within the ALCOTRA-CCLIMATT project (<http://www.cclimatt.eu/>)(<http://www.cclimatt.eu/time-line/dettaglio/periodo/2018/02/06/focus-group-per-operatori-dei-parchi-sulle-esigenze-formative-della-cellula-transfrontaliera.html>)
- **2018:** Scientific coordinator CMCC consultancy service for University of Manchester within the project RESIN-Climat Resilient cities and infrastructure (<https://resin-cities.eu/home/>)
- **2018:** Scientific manager of the CMCC consultancy service for Beta Studio s.r. under Word Bank contract “Conducting Hydrological Models and Bathymetric Measurement (Bovilla and Ulza Reservoir).
- **2017:** Among the authors of the document “Comparison of Energy consumption and Heating Degree Days (HDD)” http://www.isprambiente.gov.it/files/2018/pubblicazioni/rapporti/R_277_17_Consumienergetici_HDD.pdf
- **2017-2018:** Author of the document “Climate and health country profile for Italy” produced by the World Health Organization (WHO) and the United Nations Framework Convention on Climate Change (UNFCCC) and coordinated by Italian National Institute of Health <https://www.cmcc.it/it/politica-climatica/health-and-climate-change-everything-we-know-about-italy-2>
- **2016-2019:** Leader CMCC activities within the Metropolis project (PON) led by University of Naples- Faculty of Architecture.
- **2016:** Responsible for the CMCC activities led by VICCS (Venice Centre for Climate Studies) consulting with the aim of providing a climate projection of the pluviometric probability curve on the international airport Fiumicino area.
- **2016-2020: CMCC** scientific leader of the Interreg CE Project Proline (Efficient Practices of Land Use Management Integrating Water Resources Protection and Non-structural Flood Mitigation Experiences)
- **2016 – 2017:** Task leader “Climate risk analysis” in the framework of the project ChakeOu (Strengthening of institutional and community preparedness and coordination capacities for disaster risk reduction in Paraguay (code:SM/BUD/2015/91028)) funded by ECHO-Directorate- General for European Civil Protection and Humanitarian Aid Operations

- **2016-2018:** CMCC leader for the consulting service concerning the specialist contribution in the context of SEA for the municipality of Prato <http://www.cmcc.it/it/Articolo/climate-health-and-urban-planning-the-case-study-of-the-municipality-of-law-2>
- **2016:** CMCC leader for the consultancy service for ARPA EMILIA ROMAGNA in the framework of the **LIFE+Primes** project.
- **2016-2019:** CMCC Consultant in the framework of the **EEA-ETC/CCA** project collaborating to the preparation of the EEA 2017 Report on the adaptation of climate change and on the reduction of the risk of natural disasters
- **2014 – 2017:** CMCC Scientific Manager in the framework of FP7-SEC-2013-1 INTACT (<http://www.cmcc.it/projects/intact-on-the-impact-of-extreme-weather-on-critical-infrastructures>) and leader of the Work Package “Climate and extreme weather”
- **2013:** Among the authors of the SNAC (Elements for the development of the National strategy for adaptation to climate change) funded by the Ministry of Environment, Land and Sea.
- **2011:** Among the Author of the white paper "Challenges and opportunities of rural development for mitigation and adaptation to climate change" coordinated by the Ministry of Agriculture, Food and Forestry.
- **2009-2013:** Project manager and scientific leader of the CMCC activities for the projects: **Fp7-ENV-2008 SAFELAND** (http://www.cmcc.it/research/research-projects/safeland?set_language=en), **Fp7- ENV 2010 CLUVA** (<http://www.cluva.eu/>)
- Coordination of the scientific activities of the REMHI division for different national and European projects coordinated by other CMCC divisions including the **INTERREG ADAPT** Project (<http://interreg-maritime.eu/web/adapt>); **H2020 EUCP** development of VHR climate projections over Europe **CEF-TC-2018-5 Highlander** project development of re-analysis and climate change scenarios on Italy at a resolution of 2 km; **ORIENTGATE** South East Europe Transnational Cooperation Programme 2012 <http://www.cmcc.it/projects/orientgate-a-structured-network-for-integration-of-climate-knowledge-into-policy-and-territorial-planning>; **DDR MAURITIUS** Consultancy Services for the Development of an Inundation, Flooding and Landslide National Risk Profile, Maps, Strategy Framework and Action Plans for Disaster Risk Management in the Republic of Mauritius. Funded by Republic of Mauritius

2019-on going: Adjunct Professor of Advanced Meteorology at University of Naples Parthenope in the framework of the Course for Navigation Science and Technology. <https://www.uniparthenope.it/ugov/degreecourse/39829>

2019-2021: Consultant for Mondadori Education, within the Italian High School Book "Earth System with Climate Change" by M. Crippa and M. Fiorani, for the drafting of 4 chapters related to Atmosphere and atmospheric phenomena, Climate Change and Energy Resources and Sustainability

2005-03/2020: From February 2015 to 03/2020 head of the "Meteorology Laboratory" within the Unit "Territory, Environment and Cultural Heritage". From 2012 to 2014 head of the CIRA "Meteo System & Instrumentation" laboratory. Previously always employed at CIRA for similar activities. Among the main research activities: development of algorithms and applications for monitoring and forecasting weather conditions to support flight activities. In addition, the laboratory guarantees, through forecast bulletins, development of post processing tools and in situ measurements, support for CIRA's flight campaigns, such as UAVs and USVs. Development of dynamic and statistical forecasting products in the range of nowcasting up to the medium range

2014-03/2020: CIRA leader for management and maintenance of the experimental facility for atmosphere observation [https://www.cira.it/en/environment/Monitoraggio-ambiente-e-territorio/impact-of-extreme-weather-on-critical-infrastructure/the-cira-meteo-system-center-\(msc\)-an-advanced-platform-providing-multisource-aviation-critical-weather-information](https://www.cira.it/en/environment/Monitoraggio-ambiente-e-territorio/impact-of-extreme-weather-on-critical-infrastructure/the-cira-meteo-system-center-(msc)-an-advanced-platform-providing-multisource-aviation-critical-weather-information)

2015-03/2020: Designer and manager of the GIS Platform Matisse, a GIS platform for the meteorological support to aviation activities (<http://meetingorganizer.copernicus.org/EMS2014/EMS2014-385.pdf>)

CIRA Collaboration Agreement:

- **2017-03/2020:** CIRA contact person in the context of the meteorological activities established in collaboration with COMET (Operational Center for Meteorology of the Italian Air Force)
- **2017-03/2020:** CIRA contact person in the context of the activity for meteorology, climatology and air quality established with ARPAC (Regional Agency for Environmental Protection of

Campania Region)

CIRA Scientific activities including:

- **2019-03/2020:** scientific leader, project manager and task leader “Remote detection of icing conditions” H2020 SENS4ICE project (<https://cordis.europa.eu/project/id/824253/it>)
- **2018-03/2020:** scientific leader and project manager of the H2020 Operandum project <https://cordis.europa.eu/project/id/776848/it>
- **2016–2019:** Involved in the framework of the PJ.02-06 (SESAR2020 Work programme) project providing atmospheric scenarios and analysis of meteorological data.
- **2016–03/2020:** Involved in the framework of the COAST Project (Clean Sky 2). The activities are related to the development and demonstration of the Advanced Weather Awareness System (AWAS) capable of representing to the pilot the current and the forecasted meteorological hazard areas. The proposed system aims supporting the pilot, during the different flight phases, by providing weather information (observed and forecasted).
- **2012–03/2020:** C.I.R.A. focal point for the activities covered by the scientific collaboration with TERNA s.p.a. and TEDASS regarding the definition of advanced models for prediction of electrical manufacturability indices from wind power generation systems.
- **2011– 03/2020:** Leader of the meteorological activity PRORA TECVOL II concerning development of the system for weather awareness for general aviation and ultralight aircraft
- **2013–2015:** Project manager and scientific collaboration for SELEX GmbH within project SESAR (www.sesarju.eu) for the activity of wp15.04.09a “Description of technologies for meteorological detection”.
- **2013: Member of CIRA IXV Team;** specifically, Leader of the weather operational service (daily bulletin) realized for the IXV drop test performed in Sardinia 2013.
- **2007-2010: Member of the USV (Unmanned Space Vehicle)** decisional board structure, leader of the meteo team and weather forecaster supporting the flight activities of the U.S.V. space program. During the flight campaign she also was responsible for implementation and management of the weather mission instrumentation; development of the tool for calculation of the flight trajectory; responsible for the microclimatological characterization of the flight site in Sardinia.

Training activities including:

- **2004-on going: Tutor and correlator of more than 20 bachelor thesis** for the Faculty of Mathematics, Physics, Environmental Sciences, Telecommunication Engineering, Aerospace Engineering, Engineering for the Management of the Territory, Engineering for the Sustainable Development, Electronic Engineer at University of Salerno, University of Benevento, University of Naples “Federico II”, University of Naples “Parthenope”.
- **2010-on going Supervisor and correlator of PhD** for the PhD Doctorate School at University of Genova on System Monitoring and Management of the Environmental Risks; PhD Doctorate School for the University of Venice Ca’Foscari “ Science and Management of Climate Change” ; PhD Doctorate School for the University of Naples “Parthenope” “Phenomena and environmental risks”
- **2015-on going: tutor for the Master** on scientific calculation for the University of Rome “La Sapienza”
- **2019-on going: Lecture** as expert speaker for the cycle of seminars "Effects of climate change on a local scale" held at the Department of Architecture held at the Department of Architecture of the Federico II University
- **2019 Lecture on Climate Change Communication in the framework of ALCOTRA - CCLIMATT** Project (training module for natural park managers)
- **2018 Lecture on "Climate Change Science: global scenarios and methods for producing high-resolution climate scenarios" and "Climate change and pollution: scenarios, impacts and adaptation in cities"** within the module "CLIMATE SCENARIOS AND ADAPTATION AND MITIGATION POLICIES "https://www.sicab.net/wp-content/uploads/2018/12/Modulo-08_ENG.pdf. in the framework of **in the SICAB project (Sino Italian capacity building for environmental protection)**, <https://www.cmcc.it/it/projects/sicab-sino-italian-capacity-building-for-environmental-protection>, funded by MIUR and led by Polimi
- **2015 Lecture** on “Climate downscaling & analysis of extreme events” in the framework of PhD “Programme on Climate Change, Science and Management” organized by

Venice Centre for Climate Studies and Cà Foscari University of Venice at the Spring School "Land use and the vulnerability of socio-ecosystems to climate change: remote sensing and modelling techniques"

- **2013 Lecture**, within the training project I-AMICA at the National Research Council (CNR) of Lamezia Terme on "Climatological simulations, visualization and interpretation of the output of a simulation."
- **2006 Lecture** within the project "Training of highly qualified personnel for the development of innovative technologies and managerial skills in the context of environmental risk", funded by Campania region within POR 2000/2006 and organized by the University of Naples "Federico II".
- **2004 Lecture** on "Data Assimilation and Analysis" for the Master in Meteorology at the University of Turin. (January 2004)

Meeting Organizer Activities including:

- Organizing committee member of the International CLM General Assembly 2011 in Cava de' Tirreni (Salerno), Italy and of the CLM Assembly 2019 in Paestum (SA), Italy
- 2011: Local Organizer for the course "Training on the job" within the Multi Risk Assessment" activities held in Naples for about 20 African students

Affiliation to National and International institutions:

- **2003-on going:** Member of the European Cosmo Consortium (Consortium for Small Scale Modelling) for the development of the COSMO LM (Limited Area Model)
- **2008-on going:** Member of the European CLM Assembly for the development of the Regional Climate Model COSMO CLM
- **2017-on going:** Leader of the Priority Task Aevus and Aevus2 for the development of the COSMO urban configuration
- **2016-on going:** Member of the MENA CORDEX program, EURO-CORDEX program and EURO-CORDEX Flagship CPM (Convection Permitting Model)
- **2018:** Member of the expert jury for the CLIMATHON 2018 held in Lecce
- **2018-on going:** Member of the Board of the Italian Society of Climatology (S.I.S.C.)
- **2019-incorso:** Member of the Italian Scientific Community of the WWF https://www.wwf.it/chi_siamo/organizzazione/comunita_scientifica/
- **2019:** Member of the Scientific Committee of the 2nd National Congress of the AISAM Association (Italian Association of Atmospheric Science and Meteorology), held in Naples.
- **2019:** Member of the scientific committee of the exhibition "Poseidonia city of water-Archaeology and Climate Change" organized at the Archaeological Park of Paestum and among the authors of the event catalogue
- **2018:** Member of the Scientific Committee of the conference MEDCLIMVAR2018 <http://www.medclivar2018conf.eu/index.php/sessions>
- **2017-on going:** Member of the Scientific Committee of the conference CLIMETECH http://www.remtechexpo.com/images/2018/RemTech-Expo-2018_BOOK-ITA.pdf

Awards:

- **2013** Author of the work: "**Weather Analyst : a GIS tool for analysis of the effects of climate change on soil impacts** " published in *Proceedings of: 14a Conferenza Italiana Utenti Esri, At Roma*, winner of the Innovation and Prevention Award 2013
- **2020;** Author of winning paper of the "Great Contribution Award 2020", awarded by the Journal *Advances in Climate Change Research*. The work, which attracted wide attention and received high citation, is entitled "Climate change projections for the Middle East–North Africa domain with COSMO-CLM at different spatial resolutions" and was published in Volume 9, Issue 1, 2018.

Communication activities including:

- Released Interviews to national television networks, radio and national newspapers
- Participation to numerous national and international conferences and webinars for the dissemination of research activities and holds lectures at different schools levels

- 11/2004–06/2005 **Scholarship Earth Simulator Center (E.S.C.) di Yokohama (Japan) founded by Italian Aerospace Research Centre (C.I.R.A.) and CMCC**
Earth Simulator Center (E.S.C.) (<http://www.jamstec.go.jp/esc/index.en.html>), Yokohama (Japan)
- Analysis of the geodynamic code developed at E.S.C. Studies about: computer simulation of the magnetohydrodynamic dynamo, grid system (Yin-Yang Grid) and topics of Fortran 90 implemented on the E.S.C. computer
 - *Analysis and simulations with the GCM (Global Circulation Model) and LAM (Limited Area Model) developed at E.S.C by validation of the codes in some case studies*
- 19/05/2003–30/10/2004 **EU (Hydroptiment INTERREG IIIB) contract worker**
A.R.P.A. Piedmont (regional agency for the protection of the environment) Meteorology, weather forecast
- **Researcher** about optimization (physical parameterizations and numerical schemes) of meteorological models and, in particular, of the limited area model COSMO-LM, the German global model GME and the ECMWF model. The activity permitted the acquisition of very good experience in the meteorological field, particularly because the work was in collaboration with partners of the COSMO project
 - **Meteorologist at the operative centre in Turin and at the local weather centre of Sestriere.**
- 18/11/2002–18/05/2003 **Trainee**
FIAT Research Center, Orbassano (TO) (Italy)
- Numerical fluid dynamics studies: in order to optimize the design have been applied at the vehicle components (air flow simulation in a vehicle, thermal and fluid dynamics studies on water and oil radiator for competition cars) using fluid dynamical code (CFX 5 e CFX 4)*
- EDUCATION AND TRAINING**
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- 11/05/2012–11/06/2012 **Course "Regulations for the design, construction and testing of the avionic system"**
ENAC (Italian Civil Aviation Authority)
- 13/02/2012–17/03/2012 **Winter School on Data Assimilation**
DWD (Germany's National Meteorological Service)
- 19/05/2011–20/05/2011 **Training course "Standard formats for managing scientific data"**
CINECA, Bologna
- 22/02/2010–05/03/2010 **Science communication and journalism held by the journalist Giorgio Di Bernardo**
C.I.R.A. internal course
- 20/10/2010–30/10/2010 **Courses in ArcGIS (version 10.0) software and GIS technology**
Held at C.I.R.A .by G. & O. s.r.l. software and services
- 24/04/2006–28/04/2006 **Participation to the course "Predictability, diagnostic and seasonal forecast" (MET PR) – weather forecast**

European Centre for Medium-Range Weather Forecasts (ECMWF), Reading (United Kingdom)

- 13/03/2006–17/03/2006 **Participation to the course “LES and related techniques”, Computational fluid dynamics**
Von Karman Institute for Fluid Dynamics (VKI), Bruxelles (Belgium)
- 28/09/2004–01/10/2004 **The Fortran 90 for intensive scientific computing**
C.I.L.E.A consortium
- 29/08/2003–03/09/2003 **International Summer School Of Atmospheric And Oceanic Sciences (ISSAOS 2004) on Data Assimilation in the NWP models**
CETEMPS-University of L'Aquila
- 22/03/2004–01/04/2004 **Participation to the course “Parameterization of adiabatic processes” (MET PA)” about physical parameterization in the numerical weather prediction model**
the European Centre for Medium-Range Weather Forecasts (ECMWF) (United Kingdom)
- 03/2002–11/2002 **Master of computational fluid dynamics for industrial application and university research**
C.R.S.4 (Research Centre for advanced studies of Sardinia) financed by Consortium TCN (technologies for the numerical calculation)
<http://www.consorziotcn.it/ita/master/fluidodinamica/masterfluidodinamica.html>
- 07/01/2002–15/02/2002 **Programming in C e C++ language**
ISVOR Fiat
- 01/10/1992–13/12/2001 **Master Degree in Physics**
University of Naples “Federico II, Faculty of Physics, Napoli (Italy)
Physics, Geophysics , Fluid dynamics modelling (programming)

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Excellent interpersonal and communication skills

Organisational / managerial skills

- Teamwork and leadership attitude, attitude to work under pressure and to deal with parallel projects management.

- I am used to work for objectives and milestones
- I am able to motivate people and to recruit personal
- I am a very expert Project manager
- I'm used to publicly speaking and to manage project meetings
- Available to travel worldwide

Digital competence

- Computer knowledge: Operating systems: Windows, MS-Dos, Unix.
- Programming languages: Fortran77, Fortran90, C, C++,
- Software: Office (including Visio), Adobe Photoshop, Grads, basic knowledge of ArcGis vers.10, CDO (climate data operatros).
- User of Radiosounding system; (with certificate of course attendance); tethersonde system (with certificate of course attendance)

Driving licence B

PUBLICATIONS

Peer reviewed Papers

- 1) Ban, N., Caillaud, C., Coppola, E., Mercogliano et al. The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. *Clim Dyn* (2021). <https://doi.org/10.1007/s00382-021-05708-w>
- 2) Villani, V., Romano, E., Barbato, G. et al. Selecting and correcting RCM models ensemble: a case study for the evaluation of thermal discomfort for the city of Prato. *Nat Hazards* (2021). <https://doi.org/10.1007/s11069-021-04645-5>
- 3) Raffa, M.; Reder, A.; Adinolfi, M.; Mercogliano, P. A Comparison between One-Step and Two-Step Nesting Strategy in the Dynamical Downscaling of Regional Climate Model COSMO-CLM at 2.2 km Driven by ERA5 Reanalysis. *Atmosphere* **2021**, *12*, 260. <https://doi.org/10.3390/atmos12020260>
- 4) Garbero, V.; Milelli, M.; Bucchignani, E.; Mercogliano, P.; Varentsov, M.; Rozinkina, I.; Rivin, G.; Blinov, D.; Wouters, H.; Schulz, J.-P.; Schättler, U.; Bassani, F.; Demuzere, M.; Repola, F. Evaluating the Urban Canopy Scheme TERRA_URB in the COSMO Model for Selected European Cities. *Atmosphere* 2021, *12*, 237. <https://doi.org/10.3390/atmos12020237>
- 5) Bucchignani, E.; Mercogliano, P. Performance Evaluation of High-Resolution Simulations with COSMO over South Italy. *Atmosphere* 2021, *12*, 45. <https://doi.org/10.3390/atmos12010045>
- 6) Adinolfi, M.; Raffa, M.; Reder, A.; Mercogliano, P. Evaluation and Expected Changes of Summer Precipitation at Convection Permitting Scale with COSMO-CLM over Alpine Space. *Atmosphere* 2021, *12*, 54. <https://doi.org/10.3390/atmos12010054>
- 7) Essenfelder, A. H., Larosa, F., Mazzoli, P., Bagli, S., Broccoli, D., Luzzi, V., Mysiak, J., Mercogliano, P., & Valle, F. (2020). Smart Climate Hydropower Tool: A Machine-Learning Seasonal Forecasting Climate Service to Support Cost – Benefit Analysis of Reservoir Management. *Atmosphere* 2020, *11*, 1305; doi:10.3390/atmos11121305
- 8) Ellena, M., Ballester, J., Mercogliano, P., Ferracin, E., Barbato, G., Costa, G., & Ingole, V. (2020). Social Inequalities in Heat-attributable Mortality in the City of Turin, Northwest of Italy: A Time Series Analysis From 1982 to 2018. 1–14. <https://doi.org/10.21203/rs.3.rs-30216/v1>
- 9) Aprea C., Reder A., Mercogliano P. (2020). Urban morphology parameterization for assessing the effects of housing blocks layouts on air temperature in the Euro-Mediterranean context. *Energy and Buildings*, 223: 110171. <https://doi.org/10.1016/j.enbuild.2020.110171>
- 10) Adinolfi M., Rianna G., Mercogliano P., Maiorano R. M. S., Aversa, S. (2020). Behaviour of energy piles under climate-change scenarios: a case study in Southern Italy. *Environmental Geotechnics*, 1-15. <https://doi.org/10.1680/jenge.19.00093>
- 11) Jacob, D., Teichmann, C., Sobolowski, S., Mercogliano P., et al. Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. *Reg Environ Change* 20, 51 (2020). <https://doi.org/10.1007/s10113-020-01606-9>
- 12) Ellena, M., Ricciardi, G., Barbato, G., Buffa A., Villani V., Mercogliano, P. (2020). Past and future hydrogeological risk assessment under climate change conditions over urban settlements and infrastructure systems: the case of a sub-regional area of Piedmont, Italy. *Nat Hazards*. doi:10.1007/s11069-020-03925-w
- 13) Bucchignani, E.; Voudouri, A.; Mercogliano, P. (2020) A Sensitivity Analysis with COSMO-LM at 1 km Resolution over South Italy. *Atmosphere* 2020, *11*(4), 430; <https://doi.org/10.3390/atmos11040430>
- 14) Reder, A., Raffa, M., Montesarchio, M. et al. Performance evaluation of regional climate model

- simulations at different spatial and temporal scales over the complex orography area of the Alpine region. *Nat Hazards* 102, 151–177 (2020). <https://doi.org/10.1007/s11069-020-03916-x>
- 15) Bucchignani E., Mercogliano P., Panitz H.J., Montesarchio M., “Climate change projections for the Middle East–North Africa domain with COSMO-CLM at different spatial resolutions”, *Advances in Climate Change Research*, Volume 9, Issue 1, 2018, <https://doi.org/10.1016/j.accre.2018.01.004>.
 - 16) Uzielli, M., Rianna, G., Ciervo, F., MERCOGLIANO, P., and Eidsvig, U. K., “Temporal evolution of landslide hazard for a road infrastructure in the Municipality of Nocera Inferiore (southern Italy) under the effect of climate change,” *Nat. Hazards Earth Syst. Sci.*, 18, 3019–3035, 2018 <https://doi.org/10.5194/nhess-18-3019-2018>
 - 17) Hochman, A., Mercogliano, P., Alpert, P., Saaroni, H., & Bucchignani, E. (2018). High-resolution projection of climate change and extremity over Israel using COSMO-CLM. *International Journal of Climatology*, (January), 1–12. <https://doi.org/10.1002/joc.5714>
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