

CURRICULUM VITAE ET STUDIORUM

Dr. Tommaso CALOIERO

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1. SHORT CV

Tommaso Caloiero graduated in Civil Engineer (specialization in Hydraulic) from the University of Calabria. He received a Second level Master Degree in Mathematical Modelling of Hydrogeological Disaster from the same University and a Ph.D. in Hydraulic Engineering from the Politecnico of Milan.

Since June 2011, he has been a researcher at the National Research Council - Institute for Agricultural and Forest Systems in the Mediterranean (CNR-ISAFOM), Rende (CS), Italy.

In July 2017 he received the National Scientific Habilitation to be Associate Professor for the Scientific Discipline 08/A01. Since April 2018, he has been a Member of the Scientific Board of the PhD in Sciences and Environmental Engineering, Construction and Energy at the University of Calabria.

He is currently AI of the projects “ERA-NET COFUND WATERWORKS 2015 - Innovative Options for Integrated Water Resources Management in the Mediterranean (INNOMED)” and “PRIN 2015 - Reconciling precipitation with runoff: the role of understated measurement biases in the modeling of hydrological processes”.

He has collaborated as a scientific consultant with the Research Institute for Geo-Hydrological Protection (IRPI), the Institute of Atmospheric Sciences and Climate (ISAC) and the Institute for Agricultural and Forest Systems in the Mediterranean (ISAFOM) of the National Research Council (CNR), with the Department of Soil Defence of the University of Calabria and with the Department of Environmental, Hydraulic, Infrastructures and Surveying Engineering (DIIAR) of the Politecnico of Milan.

He worked for different regional institutions in the Calabria region (Southern Italy) such as the Regional Agency for Environmental Protection (ARPA), Civil Protection and Basin Authority.

He has been a consultant for the Institute for the Industrial Promotion (IPI).

He published more than 100 scientific papers published on national and international academic journals and as contributions to national and international conferences proceedings.

He has been a guest editor for the Water, the Geofluids and the Geosciences.

He has been a peer-reviewer for more than 30 different journal.

2. EXTENDED CV

2.1. DATA

Surname: Caloiero
 Name: Tommaso
 City and date of birth: Catanzaro, Italy, May 6th 1977
 Employer: CNR-ISAFOM of Rende (CS), Italy
 Position: Researcher
 E-mail: tommaso.caloiero@isafom.cnr.it; tommaso.caloiero@cnr.it
 Telephone: +390984841464
 Personal web page: <http://www.isafom.cnr.it/index.php/personale/23-ricercatori/136-caloiero>
 Orcid web page: <http://orcid.org/0000-0002-0393-4592>
 Scholar web page: <http://scholar.google.it/citations?user=tg6YDhoAAAAJ&hl=it>
 ResearchGate web page: http://www.researchgate.net/profile/Tommaso_Caloiero
 Academia.edu web page: <http://cnr-it.academia.edu/tommasocaloiero>

2.2. EDUCATION

- 2017 **National Scientific Habilitation as Associate Professor**, awarded by the Italian Ministry of Education, Universities and Research (MIUR). Scientific Area: 08/A01 - Hydraulics, hydrology, hydraulic and marine constructions (From July 28th 2017 to July 28th 2023).
- 2009 **PhD in Hydraulic Engineering** at the Politecnico of Milan. PhD Thesis title: “Analysis of long rainfall series in the Calabria region: trend and correlation with large scale oscillation indexes”
- 2005 **Second level Master degree** in “Mathematical Modelling of Hydrogeological Disasters” (Mode.C.I.) at University of Calabria
- 2002 **Certification of qualification as Engineer** conferred by the University of Calabria
- 2002 **Degree in Civil Engineering** - specialization in Hydraulic – at the University of Calabria (five-year degree course). Dissertation title “Il modellamento degli alvei delle fiumare Calabresi” (Modelling of “fiumare” riverbeds in Calabria)
- 1995 Scientific **High School Diploma** at the Liceo Scientifico Statale “Pitagora” of Rende (CS), Italy. Mark awarded 60/60

2.3. RESEARCH INTERESTS

My main research interests fall within the following Scientific-Disciplinary Sector: ICAR/02 – Hydraulic and Maritime Construction and Hydrology. In particular, my research focuses on surface hydrology and its climatic and meteorological impacts; these include different spatial and temporal scales of climate trend, drought risk and impact of climate change on water resources management and agricultural activities in the Mediterranean basin.

2.4. RESEARCH ACTIVITIES

- 2011-present **Researcher** of the Institute for Agricultural and Forest Systems in the Mediterranean (**ISAFOM**) of the National Research Council (**CNR**)
- 2005-11 **Collaboration** with the Institute for Agricultural and Forest Systems in the Mediterranean (**ISAFOM**) of the National Research Council (**CNR**) to research on “Climatic trend detection and quantification at different temporal scale” and on “Temporal and spatial variability of the rainfall in the Calabria region by the

quantification of the spatial structure of the average annual precipitation and by their spatial interpolation with geostatistical methods”

- 2011 From February 15th 2011 to May 31st 2011 **research fellowship** on “Analysis of the spatial and temporal rainfall change in Calabria, with particular reference to these rainfall with high impact on the ground” within the M.I.R.A.SAT project at the Research Institute for Geo-Hydrological Protection (**IRPI**) of the National Research Council (**CNR**)
- 2009-10 From December 1st 2009 to November 30th 2010 **research fellowship** on “estimates of climate trends, definition of rainfall scenarios and impact evaluation of hydrological disasters” within the POR Calabria Research program at the Institute of Atmospheric Sciences and Climate (**ISAC**) of the National Research Council (**CNR**)
- 2009 From June 20th to August 20th 2009 **professional contract** with the **Politecnico of Milan**, Cremona Campus, to research on “Rainfall series analysis and synoptic indexes to detect climatic trend” within the ACQWA project (Assessing Climatic change and impacts on the Quantity and quality of Water)
- 2008-09 From April 7th 2008 to January 7th 2009 **research fellowship** on “Study of climate trends and of hydrogeological phenomena with a high socio-economic impact in Calabria over the last 120 years” within the POR Calabria Research at the Institute of Atmospheric Sciences and Climate (**ISAC**) of the National Research Council (**CNR**) and at the Research Institute for Geo-Hydrological Protection (**IRPI**) of the National Research Council (**CNR**)
- 2006 From January 9th to April 9th 2006 **research fellowship** on “GIS Morphometric Analysis of the Calabria basin” within the “National Group for Prevention of Hydrological Hazards” (**GNDCI**) U.O. 1.4. at the Research Institute for Geo-Hydrological Protection (**IRPI**) of the National Research Council (**CNR**)
- 2005 From March to July 2005 **collaboration** with the Research Institute for Geo-Hydrological Protection (**IRPI**) of the National Research Council (**CNR**) to the drawing up of the hydrological report on the rainfall and temperature conditions relating to the historic events and to the events occurred in March 2005 at Cavallerizzo of Cerzeto, Calabria, Italy
- 2004 From May to September 2004, as part of the Master Mode.C.I. programme, **internship** at the Department of Environmental, Hydraulic, Infrastructures and Surveying Engineering (**DIAR**) of the **Politecnico of Milan** on “Analysis of vegetation index in the Mulargia river basin”
- 2002-03 From April 2002 to December 2003 **collaboration** with the Research Institute for Geo-Hydrological Protection (**IRPI**) of the National Research Council (**CNR**) to the development of the research project "Monitoring and Mathematical Modelling of Pollution Dynamics of River Flows and Surrounding Areas" of the “National Group of Defence from chemical industrial and ecological risks” (**GNDRCIE**)

2.5. RESEARCH PROJECTS

- 2017- He is **Associate Investigator** of the Project ERA-NET COFUND WATERWORKS 2015 - Innovative Options for Integrated Water Resources Management in the Mediterranean (INNOMED), funded by the European Commission.
- 2017- He is **Associate Investigator** of the Project “PRIN 2015 - Reconciling precipitation with runoff: the role of understated measurement biases in the modelling of hydrological processes”, funded by Italian Ministry of University and Research (MIUR)
- 2017- He is **collaborating** at the project “ERA-NET COFUND ERA4CS - Integrated approach for the development across Europe of user oriented climate indicators for GFCS high-priority sectors: agriculture, disaster risk reduction, energy, health, water and tourism (INDECIS), funded by the European Commission.
- 2014-18 He has **collaborated** at the project “PON03_00024_1 Public-Private Laboratory for Innovative Technologies with High Environmental Sustainability in the Forest-Wood-Energy Processing Chain - Ambi.Tec.Fil.Legno – ALForLab” as **coordinator** of the Deliverable 1.1.31 “Continuous monitoring of plant transpiration soil evapotranspiration”, funded by Italian Ministry of University and Research (MIUR)

- 2012-16 He has **collaborated** at the project Life+ “ManFor CBD 2010-2015 Life Environment Project LIFE09 ENV/IT/000078. Managing forests for multiple purposes: carbon, biodiversity and socio-economic wellbeing”, funded by European Communities (EC)
- 2012-15 He has **collaborated** at the project “PONa3_00363 - Infrastructure AMICA - Infrastructure of High Technology for Integrated Climate and Environmental Monitoring”, funded by Italian Ministry of University and Research (MIUR)
- 2011-15 He has **collaborated** at the project “PON01_02061 Project for a complete advanced energy system, based on the mass culture of transparent microalgae for the production of renewable energy and other products, in terms of competitiveness and environmental sustainability”, funded by Italian Ministry of University and Research (MIUR)

2.6. EDITORIAL ACTIVITY FOR INTERNATIONAL SCIENTIFIC JOURNALS

He has been **guest editor** for the following special issues in international scientific journal:

Damaging Hydrogeological Event” (**Water** – MDPI)
https://www.mdpi.com/journal/water/special_issues/Damaging_Hydrogeological

Hydrological Hazard: Analysis and Prevention (**Geosciences** - MDPI)
https://www.mdpi.com/journal/geosciences/special_issues/Hydrogeological_Hazard_Prevention

The Role of Water-Rock Interaction Processes in Soil Formation: Geochemical, Mineralogical, Geomorphological, and Engineering-Geological Aspects (**Geofluids** - Hindawi).
<https://www.hindawi.com/journals/geofluids/si/637841/>

2.7. PEER-REVIEWING ACTIVITY FOR INTERNATIONAL SCIENTIFIC JOURNALS

He has been **reviewer** for the following international scientific journal:

Advances in Meteorology (Hindawi); **Arabian Journal of Geosciences** (Springer); **Atmospheric Research** (Elsevier Science); **Catena** (Elsevier Science); **Climate** (MDPI); **Desalination and Water Treatment** (Taylor & Francis Group); **Environmental Earth Sciences** (Springer); **Environmental Processes** (Springer), **Environmental Research** (Elsevier Science); **Environmental Science** (AIMS Press); **European Physical Journal – Plus** (Springer); **Geophysical Research Letters** (AGU); **Geoscience Letters** (Springer); **Geoscineces** (MDPI); **Hydrological Sciences Journal** (Taylor & Francis Group); **Hydrology** (MDPI); **Hydrology Research** (IWA); **International Journal of Climatology** (John Wiley & Sons, Inc); **International Journal of Hydrology Science and Technology** (Inderscience); **Journal of Atmospheric and Oceanic Technology** (AMS); **Journal of Hydrologic Engineering** (ASCE); **Journal of Hydrology** (Elsevier Science); **Journal of Hydrology: Regional Studies** (Elsevier Science); **Journal of Irrigation and Drainage Engineering** (ASCE); **Journal of Maps** (Taylor & Francis Group); **Natural Hazards** (Springer); **Natural Hazards and Earth System Sciences** (Copernicus Publications); **Open Water Journal** (IWA); **PLOS ONE** (PLOS); **Sustainability** (MDPI); **Turkish Journal of Agriculture and Forestry** (Academic Journals); **Water** (MDPI).

2.8. ACADEMIC ACTIVITIES

Scientific Board:

- 2018- He is Member of the Scientific Board of the PhD in Sciences and Environmental Engineering, Construction and Energy at the University of Calabria.

Joint supervision of thesis:

- 2018 “*Valutazione di trend climatici nel bacino del Fiume Crati*” (Evaluation of climatic trend in the Crati River basin) supervisor Prof. Roberto GAUDIO, co-supervisor Dr. Tommaso CALOIERO, candidate Antonio LUCCHESI, University of Calabria, Departmente of Civil Engineering (DINCI).
- 2016 “*Progetto di riqualificazione architettonica e paesaggistica degli attraversamenti e delle sponde del Torrente Canne a Nicastro in condizioni di sicurezza idraulica*” (Project for the architectural and landscaping requalification of the bridges and the banks of the Canne River in Nicastro in safe hydraulic conditions), supervisors Prof. Roberta LUCENTE and Prof. Roberto GAUDIO, co-supervisor Dr. Tommaso CALOIERO, candidate Maria Bernadette GUERCIO, University of Calabria, Departmente of Civil Engineering (DINCI)

2.9. MAIN SEMINARS, COURSES AND SCHOOLS ATTENDED**Phd courses:**

- 2005-08 **Fluid Mechanics, Stochastic methods for flow and transport in heterogeneous aquifers, MICROCLIMATE - Physics and Design of Building and Environmental Micro-systems and Hydrogeostatistic**

Master courses:

- 2003-04 **28 Courses and 26 Seminars** within the activity program of the **Master Mode.C.I.**

Refresher courses:

- 2006-16 **I, III, IV, V, VII, VIII, IX, X e XI International Short Course** “Advances in knowledge of urban drainage from the catchment to the receiving waters”, organized by the Italian Hydrotechnic Association (**IIA**), the Aqueducts and Sewer Study Centre of the Department of Soil Defence University of Calabria (**UNICAL**) and the Laboratory of Urban Hydraulics (**LIU**)
- 1999-16 **XX, XXI, XXIII, XXVI, XXVII, XXX, XXXVI e XXXVII Refresher course** on “Pollution Prevention Techniques”, organized by the Italian Hydrotechnic Association (**IIA**) and the Aqueducts and Sewer Study Centre of the Department of Soil Defence University of Calabria (**UNICAL**)

Other courses:

- 2009-10 **Advanced vocational course**, for the application of the “**ARCGIS version 9.3.1**” software of the Environmental Systems Research Institute (**ESRI**), organized by Epsilon Italia
- 2008 **Winter School** “The quantification of hydrological modelling uncertainty”, organized by the DISTART Department of the **University of Bologna**, by DITIC Department of the **Politecnico of Turin** and by DICATA Department of the **University of Brescia**, from March 5th to March 7th 2008
- 2007 **Advanced vocational course**, for the application of **HEC-RAS**, River Analysis System organized by the Ministry of Environment from November 6th to November 8th 2007
- 2007 **Magisterial Lectures** in Civil Engineering organized by the Faculty of Engineering, University of Calabria, February 8th 2007
- 2006 **Lecture on** “Sediment Transport and Scour”, held by Prof. Subhasih DEY, Department of Civil Engineering, Indian Institute of Technology, Kharagpur, India, and organized by the Department of Soil Defence University of Calabria (**UNICAL**), from December 18th to December 20th 2006
- 2004 **Lecture on** “Lectures on “Flood and Debris-Flow Propagation” organised by the Centre for the Hydrogeologic Defence of the Mountain Environment (CUDAM), Faculty of Engineering, University of Trento, 26th January to

30th January 2004

2.10. MAIN CONFERENCES ATTENDED

- 2018 Aveiro (Portugal) - **24th annual conference of the New Zealand Studies Association (NZSA)** “Regional Identities & Coastal Communities of the Pacific” organized by the New Zealand Studies Association (NZSA) and by the **University of Aveiro**.
- 2018 Vienna (Austria) - **European Geosciences Union General Assembly**, organized by the European Geosciences Union (EGU)
- 2017 Strasbourg (France) - **23rd annual conference of the New Zealand Studies Association (NZSA)** “Contested Territories in the Pacific” organized by the New Zealand Studies Association (NZSA) and by the **University of Strasbourg**.
- 2017 Athens (Greece) - **10th WORLD CONGRESS on Water Resources and Environment** “Panta Rhei” organized by the European Water Resources Association (EWRA).
- 2016 Pizzo (Italy) - **EFIMED Week 2016** “Smart Mediterranean Forestry, bioeconomy and social integration” organized by the Mediterranean Regional Office of the European Forest Institute (EFIMED) and by the Institute for Agricultural and Forest Systems in the Mediterranean (ISAFOM) of the National Research Council (CNR).
- 2016 Bucharest (Romania) - **16th Biennial Conference ERB 2016** “Hydrological behaviour in small Basins Under Changing Conditions” organized by the **National Institute of Hydrology and Water Management**, by the **Romanian Association of Hydrological Sciences** and by the **Euromediterranean network of Experimental and Representative Basin**
- 2016 Chania (Greece) - **2nd EWaS International Conference** “Efficient & Sustainable Water Systems Management toward Worth Living Development” organized by the **University of Thessaly** and by the **Technical University of Crete**
- 2014 Cosenza (Italy) - **International Workshop** “Monitoring, modelling and early warning of extreme events triggered by heavy rainfall”, meeting of the Flow Regimes from International Experimental and Network Data UNESCO IHP–VIII (2014-21), AMHY Group (**AMHY-FRIEND**)
- 2013 Porto (Portugal) - **VIII EWRA International Conference** “Water Resources Management in an Interdisciplinary and Changing Contest” organized by the European Water Resources Association (**EWRA**)
- 2011 Cosenza (Italy) - **VIII SISEF National Conference**, organized by the **SISEF** (Italian Society of Silviculture and Forest Ecology), by the Agricultural Research Council (**CRA**), by the Institute for Agricultural and Forest Systems in the Mediterranean (**ISAFOM**) of the National Research Council (**CNR**) and by the University of Calabria (**UNICAL**)
- 2011 Cosenza (Italy) - **International Workshop** “From prediction to prevention of hydrological risk in Mediterranean countries”, meeting of the Flow Regimes from International Experimental and Network Data UNESCO IHP–VII (2008-13), AMHY Group (**AMHY-FRIEND**)
- 2011 Catania (Italy) - **VI EWRA International Symposium** “Water Engineering and Management in a Changing Environment” organized by the European Water Resources Association (**EWRA**)
- 2010 Palermo (Italy) - **XXXII Italian Conference of Hydraulics and Hydraulic Constructions**, organized by the **University of Palermo**
- 2008 Cosenza (Italy) - **International Workshop** “Analyses and images of hydrological extremes in Mediterranean environments”, meeting of the Flow Regimes from International Experimental and Network Data UNESCO IHP–VI (2002-07), AMHY Group (**AMHY-FRIEND**)

- 2007 Perugia (Italy) - **IUGG XXIV General Assembly** “Earth: our changing planet”, organized by the International Union of Geodesy and Geophysics (**IUGG**)
- 2007 Cosenza (Italy) - **International Workshop** “Variability in space and time of extreme rainfalls, floods and droughts”, meeting of the Flow Regimes from International Experimental and Network Data UNESCO IHP–VI (2002-07), AMHY Group (**AMHY-FRIEND**)
- 2007 Vienna (Austria) - **European Geosciences Union General Assembly**, organized by the European Geosciences Union (**EGU**)
- 2006 Rome (Italy) - **XXX Italian Conference of Hydraulics and Hydraulic Constructions**, organized by the Universities of Rome “La Sapienza” and “Roma Tre”
- 2006 Cosenza (Italy) - **International Workshop** “Observing and modelling exceptional flood and rainfall”, meeting of the Flow Regimes from International Experimental and Network Data UNESCO IHP–VI (2002-07), AMHY Group (**AMHY-FRIEND**)
- 2003 Rome (Italy) - **International Symposium** “The basis of civilization. Water science?” organized by the United Nations Educational, Scientific and Cultural Organization (**UNESCO**), by the International Association of Hydrological Sciences (**IAHS**) and by the National Research Council (**CNR**)
- 2002 Cosenza (Italy) - **1° Italian-Russian Workshop** “New trends in hydrology”, organized by the Association of Hydrological Sciences (**IAHS**), by the Research Institute for Geo-Hydrological Protection (**IRPI**) of the National Research Council (**CNR**), by the Calabrian Basin Authority (**ABR Calabria**) and by the Russian Academy of Sciences (**RAS**)

2.11. CONFERENCES ORGANIZATION AND CHAIR

- 2019 Member of the scientific committee of the **International Workshop NatHaz19** - Hydrological Risks, held in Lajes do Pico village, Pico Island (Azorre) from May 9th to May 10th 2019.
- 2016 Co-chair of the session A9 - Global changes and smart cities of the **2nd EWaS International Conference** “Efficient & Sustainable Water Systems Management toward Worth Living Development”, held in Chania (Greece) from June 1th to June 4th 2016
- 2012 Member of the organizing committee of the **Conference** “Research and innovation for the development of Calabria”, held in Cosenza (Italy) on 21st February 2012
- 2006 Member of the organizing committee of the **Conference** “The role of the public research institution in Calabria”, held in Cosenza (Italy) on 24th November 2006

2.12. WORK EXPERIENCE

- 2008 From May 16th to June 30th 2008 **professional consultant** for the “Institute for Industrial Promotion” (**IPI**) for the drawing up of the Regione Calabria Action Plan aiming at protecting and improving the environmental quality of the integrated hydric service
- 2008 From February 1st to June 30th 2008 **professional consultant** for the Ministry of the Environment, Land and Sea, for the updating of the Hydrogeological Plan (PAI) of the Calabrian Basin Authority (**ABR Calabria**)
- 2007 From June 1st to December 31st 2007 **internship** with the Ministry of the Environment, Land and Sea, for the updating of the Hydrogeological Plan (PAI) of the Calabrian Basin Authority (**ABR Calabria**)

- 2006 From July 3rd to September 30th 2006 **professional consultant** for the Regional Civil Protection Department of the Calabria Region, for the development of the SEDEMED II project concerning the detection, the enumeration and the classification of the water bodies of the Calabria region for trend and drought analysis
- 2005 From March 1st to September 30th 2005 **professional consultant** for the Regional Agency for the Environmental Protection of the Calabria Region (ARPACAL), for the development of the SEDEMED II project concerning the detection, the enumeration and the classification of the water bodies of the Calabria region for trend and drought analysis
- 2004 From June 1st to November 1st 2004 **professional consultant** for the Regional Agency for the Environmental Protection of the Calabria Region (ARPACAL), for the development of the SEDEMED project concerning the implementation of a hydrological database and the development of drought monitoring and forecasting methods

2.13. LANGUAGES

Italian: Mother Tongue

English: Very Good reading, writing and verbal skills

2.14. TECHNICAL SKILLS

Good knowledge of various versions of Windows Operating System, of Visual Basic 6.0 programming language, of MS Office, Autocad, ArcView, ArcGIS, Idrisi, Mike 11, Hec-Ras, Hec-Hms, Hec-GeoHms, Hec-GeoRas, Envi, Adobe Photoshop and Corel Draw

2.15. MEMBERSHIPS

From 2017 - EGU

From 2017 - New Zealand Studies Association (NZSA)

From 2017 - Science Team “Droughts & water resources” (ST-droughtswresources) of the HyMeX (HYdrological cycle in the Mediterranean EXperiment) group.

From 2016 - Task force “Flash-floods and social impacts and analysis system” (TF-floodhymex) of the HyMeX (HYdrological cycle in the Mediterranean EXperiment) group

From 2015 - International Association of Hydrological Sciences (IAHS)

From 2015 - European Water Resources Association (EWRA)

From 2013 – Italian Hydrological Society (SII).

2.16. OTHER INFORMATION

Author of the paper “Trend detection of annual and seasonal rainfall in Calabria (Southern Italy)” which was one of the 20 works selected among the 289 papers (published in 2010-2011-2012) present in ICSH website and ordered by citations (SCOPUS database, excluding self citations) as candidate for The STAHY Best Paper 2014. The same paper was selected among the 332 papers (published in 2011-2012-2013) present in ICSH website and ordered by citations (SCOPUS database, excluding self citations) for The STAHY Best Paper 2015

3. PUBLICATIONS

JOURNAL

ISI/SCOPUS Journal

2019

- 1) GAGLIOTI S., INFUSINO E., **CALOIERO T.**, CALLEGARI G., GUAGLIARDI I., Geochemical Characterization of Spring Waters in the Crati River Basin, Calabria (Southern Italy). *Geofluids*, Article ID 3850148, 2019. DOI: 10.1155/2019/3850148. ISSN: 1468-8115

2018

- 2) BUTTAFUOCO G., **CALOIERO T.**, RICCA N., GUAGLIARDI I., Assessment of drought and its uncertainty in a southern Italy area (Calabria region). *Measurement*, 113, 205–210, 2018. DOI: 10.1016/j.measurement.2017.08.007. ISSN: 0263-2241.
- 3) **CALOIERO T.**, SPI trend analysis of New Zealand applying the ITA technique. *Geosciences*, 8, 101, 2018. DOI: 10.3390/geosciences8030101. ISSN: 2076-3263
- 4) **CALOIERO T.**, SIRANGELO B., COSCARELLI R., FERRARI E., Occurrence probabilities of wet and dry periods in southern Italy through the SPI evaluated on synthetic monthly precipitation series. *Water*, 10, 336, 2018. DOI: 10.3390/w10030336. ISSN: 2073-4441
- 5) PELLICONE G., **CALOIERO T.**, MODICA G., GUAGLIARDI I., Application of several spatial interpolation techniques to monthly rainfall data in the Calabria region (southern Italy). *International Journal of Climatology*, 38, 3651–3666, 2018. DOI: 10.1002/joc.5525. ISSN: 0899-8418
- 6) **CALOIERO T.**, CALOIERO P., FRUSTACI F., Long-term precipitation trend analysis in Europe and in the Mediterranean basin. *Water and Environment Journal*, 32, 433–445, 2018. DOI: 10.1111/wej.12346. ISSN: 1747-6593
- 7) **CALOIERO T.**, VELTRI S., CALOIERO P., FRUSTACI F., Drought analysis in Europe and in the Mediterranean basin using the Standardized Precipitation Index. *Water*, 10, 1043, 2018. DOI: 10.3390/w10081043. ISSN: 2073-4441
- 8) **CALOIERO T.**, COSCARELLI R., FERRARI E., Application of the Innovative Trend Analysis Method for the Trend Analysis of Rainfall Anomalies in Southern Italy. *Water Resources Management*, 32, 4971–4983, 2018. DOI: 10.1007/s11269-018-2117-z. ISSN: 0920-4741
- 9) COSCARELLI R., **CALOIERO T.**, FERRARI E., SIRANGELO B., Detection and analysis of drought events in Calabria (southern Italy). *Italian Journal of Engineering Geology and Environment*, Special Issue 1, 13-25, 2018. DOI: 10.4408/IJEGE.2018-01.S-02. ISSN: 1825-6635
- 10) SIRANGELO B., **CALOIERO T.**, COSCARELLI R., FERRARI E., A combined stochastic analysis of mean daily temperature and diurnal temperature range. *Theoretical and Applied Climatology*, **Published online**. DOI: 10.1007/s00704-018-2441-5. ISSN: 0177-798X
- 11) **CALOIERO T.**, COSCARELLI R., GAUDIO R., LEONARDO G.P., Precipitation trend and concentration in the Sardinia region. *Theoretical and Applied Climatology*, **Published online**. DOI: 10.1007/s00704-018-2595-1. ISSN: 0177-798X
- 12) **CALOIERO T.**, VELTRI S., Drought assessment in the Sardinia region (Italy) during 1922-2011 using the Standardized Precipitation Index. *Pure and Applied Geophysics*, **Published online**. DOI: 10.1007/s00024-018-2008-5. ISSN: 0033-4553

2017

- 13) SIRANGELO B., **CALOIERO T.**, COSCARELLI R., FERRARI E., Stochastic analysis of long dry spells in Calabria (Southern Italy). *Theoretical and Applied Climatology*, 127, 711–724, 2017. DOI: 10.1007/s00704-015-1662-0. ISSN: 0177-798X
- 14) **CALOIERO T.**, Trend of monthly temperature and daily extreme temperature during 1951-2012 in New Zealand. *Theoretical and Applied Climatology*, 129, 111–127, 2017. DOI: 10.1007/s00704-016-1764-3. ISSN: 0177-798X
- 15) **CALOIERO T.**, Drought analysis in New Zealand using the standardized precipitation index. *Environmental Earth Sciences*, 76, 569, 2017. DOI: 10.1007/s12665-017-6909-x. ISSN: 1866-6280
- 16) **CALOIERO T.**, COSCARELLI R., FERRARI E., SIRANGELO B., Trend analysis of monthly mean values and extreme indices of daily temperature in a region of southern Italy. *International Journal of Climatology*, 37, 284-297, 2017. DOI: 10.1002/joc.5003. ISSN: 0899-8418
- 17) SIRANGELO B., **CALOIERO T.**, COSCARELLI R., FERRARI E., A stochastic model for the analysis of maximum daily temperature. *Theoretical and Applied Climatology*, 130, 275-289, 2017. DOI: 10.1007/s00704-016-1879-6. ISSN: 0177-798X
- 18) KREIBICH H., DI BALDASSARRE G., VOROGUSHYN S., AERTS J.C.J.H., APEL H., ARONICA G.T., ARNBERG-NIELSEN K., BOUWER L.M., BUBECK PH., **CALOIERO T.**, CHINH D.T., CORTÉS M., GAIN A.K., GIAMPÁ V., KUHLCHE CH., KUNDZEWICZ Z.W., LLASAT M.C., MÅRD J., MATCZAK P., MAZZOLENI M., MOLINARI D., DUNG N.V., PETRUCCI O., SCHRÖTER K., SLAGER K., THIEKEN A.H., WARD P.J., MERZ B., Adaptation to flood risk – results of international paired flood event studies. *Earth's Future*, 5, 953–965, 2017. DOI: 10.1002/2017EF000606. ISSN: 2328-4277
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