

Plinius2022

17th Plinius Conference on Mediterranean Risks

Tuesday, 18 October

PLSE1

Welcome and Salutations

09:00 **Opening**

Stefano Dietrich - CNR-ISAC, 17th Plinius conference coordinator

09:15 **Mediterranean Risks: research and services at CNR-ISAC**

Maria Cristina Facchini - CNR-ISAC, Director

PLSE2

Invited talks

09:30 **Earth Observations and Copernicus as supporting tools for a more resilient society**

Alessandra Tassa – ESA-Esrin (invited)

09:55 **Meteorological extreme events and hydrological impacts**

Carlo Cacciamani - Agenzia Italia Meteo, Director (invited)

10:10 **The EUMETSAT Satellite Application Facility on Support to Operational Hydrology and Water Management (H SAF) - 4th phase**

Paolo Rosci - Italian Air Force Meteorological Service (invited)

10:25 **The role of satellite data in a complete meteo-hydrological chain to support early warning systems, from meteorological scenarios to flooded areas: the Apollo mediterranean cyclone**

Silvia Puca - Italian Civil Protection (invited)

10:45 **Changes in flood hazards in Mediterranean basins**

Yves Tramblay - Institute of Research for Development (IRD), HydroSciences Montpellier laboratory (invited)

11:00–11:30 *Coffee break*

PL1

Diagnosis, trends, causalities, and predictions of extreme weather events in a climate change environment

Conveners: Mario Marcello Miglietta, Vassiliki Kotroni, Jose Luis Sanchez

PRECIPITATION

Chairperson: Mario Marcello Miglietta



11:30–11:45

Some tools to forecast the extreme precipitation events in the Mediterranean areas

Jose Luis Sanchez, Andres Merino, Eduardo García-Ortega, Andres Navarro, Francisco Javier Tapiador, and Jose Luis Marcos

11:45–12:00

The role of Atmospheric Rivers in the Mediterranean in heavy precipitation events over the Alps

Silvio Davolio, Mario Marcello Miglietta, Marco Vercellino, Lucia Drago Pitura, Lorenzo Giovannini, Francesco Sioni, Federico Grazzini, Sante Laviola, and Vincenzo Levizzani

12:00–12:15

Numerical simulations of banded orographic convection over the eastern Italian Alps: influence of atmospheric conditions and local topography

Tullio Degiacomi, Andrea Zonato, Silvio Davolio, Mario Marcello Miglietta, and Lorenzo Giovannini

12:15–12:30

Evaluation of aerosol direct and indirect effects on extreme precipitation events over Liguria Region

Francesco Ferrari, Federico Cassola, Andrea Mazzino, Marcello Mario Miglietta, Mauro Morichetti, and Umberto Rizza

12:30–12:45

Assessment of projected Mediterranean SST influence on severe precipitation events

Luca Furnari, Jessica Castagna, Giuseppe Mendicino, and Alfonso Senatore

12:45–13:00

Future changes in sub-daily precipitation return levels over an alpine transect from a convection-permitting model

Eleonora Dallan, Bardia Roghani, Giorgia Fosser, Christoph Schaer, Marco Marani, Marco Borga, and Francesco Marra

13:00–13:15

Predictions of Extreme Weather Events in a Climate Change Environment in the Northwest Italy

Peter Enos Tuju, Francesco Ferrari, and Andrea Mazzino

13:15–13:30

Regional Precipitation Index: ranking storms in Greece

Kostas Lagouvardos, George Papavasileiou, Vasiliki Kotroni, Katerina Papagiannaki, Stavros Dafis, and Elisavet Galanaki

13:30–14:30 *Lunch*

PL2

Earth Observation data and techniques for the definition, characterization and monitoring of natural hazards

Conveners: Giulia Panegrossi, Emmanouil Anagnostou, Riccardo Lanari

WEATHER AND HYDROLOGICAL HAZARDS: MONITORING AND APPLICATIONS

Chairpersons: Giulia Panegrossi, Emmanouil Anagnostou



14:30–14:45

Satellite soil moisture-derived rainfall for flood modelling in Italy

Luca Ciabatta, Stefania Camici, Paolo Filippucci, Christian Massari, Leo Pio D'Adderio, Giulia Panegrossi, Hamidreza Mosaffa, and Luca Brocca

14:45–15:00

Multi-sensor optical remote sensing for generalized sub-metric detection of pluvial flood damages using U-net CNN and Random Forest

Arnaud Cerbelaud

15:00–15:15

A multifractal framework to evaluate extreme rainfall trends across scales under a changing climate

Stergios Emmanouil, Andreas Langousis, Efthymios I. Nikolopoulos, and Emmanouil N. Anagnostou

15:15–15:30

Satellite-based characterization of Medicanes in the GPM era

Leo Pio D'Adderio, Daniele Casella, Stefano Dietrich, Paolo Sanò, and Giulia Panegrossi

15:30–15:45

Analysis of a hail bearing Mediterranean supercell through weather radars

Mario Montopoli, Errico Picciotti, Luca Baldini, Saverio Di Fabio, Frank Marzano, Marcello M. Miglietta, Alessandro Tiesi, Simone Mazzà, and Gianfranco Vulpiani

15:45–16:00

Heavy precipitation events where there's no rain: Saharan rainfall climatology

Moshe Armon, Andries de-Vries, Francesco Marra, Nadav Peleg, and Heini Wernli

16:00–16:15

Comparison of instantaneous satellite rainfall data and observations from rain gauges network in the Bouregreg-Chaouia region in Morocco

Imane EL Martili, Khalid Barkouki, Jihane Ahattab, and Najat Serhir

16:15–16:30

Detection of extreme rainfall events by a network of microwave links in the area of Milan

Roberto Nebuloni, Greta Cazzaniga, Cristina Deidda, Michele D'Amico, and Carlo De Michele

PLSE4

16:30–17:00

Wrap up of the day



Wednesday, 19 October

PL6

Impacts of climate change and extremes on ecosystems and agriculture

Conveners: Luigi Ponti, Andreja Sušnik, Massimiliano Pasqui

Chairpersons: Luigi Ponti, Massimiliano Pasqui

09:00–09:15

Long-term effects of water harvesting systems on soil and vegetation dynamics in a semiarid region, Israel

Eli Argaman, Netanel Borow, and Ilan Stavi

09:15–09:30

Adaptation strategies to address irrigation demand in the Mediterranean under climate change

Nikolaos Nikolaidis, Dionissis Efstathiou, and Maria Lilli

09:30–09:45

Impact of drought events on plant Water Use Efficiency

Nikolaos Nikolaidis, Maria Lilli, Dionissis Efstathiou, Christian Poppe, and Harry Vereecken

09:45–10:00

Evaluating agricultural risks in Central Italy by coupling drought risk assessment and agro-hydrological modelling

Lorenzo Villani, Giulio Castelli, Estifanos Addisu Yimer, Luigi Piemontese, Ann van Griensven, Daniele Penna, and Elena Bresci

10:00–10:15

Compound impact of anomalous vegetation activity and hot/dry conditions during the 2017 extreme fire season in Portugal

Tiago Ermitão, Célia Gouveia, Ana Bastos, and Ana Russo

10:15–10:30

Reforestation efforts and impact on climate change

Pau Benetó, Hassane Moutahir, and Samira Khodayar

10:30–10:45

Climate stressors' interplays modulating interannual olive and grapevine yields in Italy: a composite index approach

Arianna Di Paola, Edmondo Di Giuseppe, and Massimiliano Pasqui

10:45–11:30 *Coffee break*

PL1

Diagnosis, trends, causalities, and predictions of extreme weather events in a climate change environment

Conveners: Mario Marcello Miglietta, Vassiliki Kotroni, Jose Luis Sanchez

CYCLONES

Chairperson: Vassiliki Kotroni



11:30–11:45

Quantifying the contribution of diabatic processes in the intensification of Mediterranean tropical-like cyclones (Medicanes)

Stavros Dafis, Emmanouil Flaounas, Chantal Claud, Vassiliki Kotroni, and Konstantinos Lagouvardos

11:45–12:00

On the influence of Ocean Mixed Layer depth and Sea Surface Temperature Anomaly in the genesis and evolution of the Mediterranean Tropical-Like cyclones “IANOS”

Antonio Ricchi, Giovanni Liguori, Leone Cavicchia, Mario Marcello Miglietta, Davide Bonaldo, Sandro Carniel, and Rossella Ferretti

12:00–12:15

Analysis of a subtropical cyclone in the North Atlantic Ocean by means of the HARMONIE-AROME model: evaluation against satellite data

Lara Qutián Hernández, Carlos Calvo-Sancho, Javier Díaz Fernández, Pedro Bolgiani, Daniel Santos-Muñoz, Juan Jesús Gonzalez-Alemán, Mariano Sastre, Francisco Valero, Jose Ignacio Farrán, and María Luisa Martín Pérez

12:15–12:30

A high-impact meso-beta vortex in the Adriatic Sea

Mario Marcello Miglietta, Federico Buscemi, Stavros Dafis, Alvisè Papa, Alessandro Tiesi, Dario Conte, Silvio Davolio, Emmanouil Flaounas, Vincenzo Levizzani, and Richard Rotunno

12:30–12:45

Analysis and classification of severe cyclogenesis events over the western Mediterranean Sea in the last 40 years

Cosimo Enrico Carniel, Rossella Ferretti, Antonio Ricchi, Gabriele Curci, Piero Serafini, Evan David Wellmeyer, and Dino Zardi

12:45–13:00

Spatio-temporal nowcasting of local severe weather events with deep neural networks

Sandy Chkeir, Aikaterini Anesiadou, and Riccardo Biondi

HEAT WAVES AND DROUGHT

Chairperson: Vassiliki Kotroni

13:00–13:15

Attribution of the extreme heat wave of July-August, 2021, in Greece to human-induced climate change, employing a forecast-based storyline approach

Christos Giannaros, Stavros Dafis, Elissavet Galanaki, Vassiliki Kotroni, Konstantinos Lagouvardos, and Theodore M. Giannaros

13:15–13:30

Extreme meteorological droughts from paleo-climatic reconstructions analyzed through non-asymptotic extreme-value distributions

Maria Francesca Caruso, David Johnny Peres, Antonino Cancelliere, and Marco Marani



13:30–14:30 *Lunch*

PL2

Earth Observation data and techniques for the definition, characterization and monitoring of natural hazards

Conveners: Giulia Panegrossi, Emmanouil Anagnostou, Riccardo Lanari

WEATHER AND HYDROLOGICAL HAZARDS: NEW OBSERVING SYSTEMS AND TECHNIQUES

Chairpersons: Emmanouil Anagnostou, Giulia Panegrossi

14:30–14:45

GNSS-PWV time evolution in extreme weather events: comparison analysis with lightning and radar-VIL

Alessandra Mascitelli, Stefano Federico, Gianfranco Vulpiani, Mattia Crespi, and Stefano Dietrich

14:45–15:00

NASA MPLNET precipitation detection algorithm validation by ground-based disdrometers in the frame of future ESA Earthcare mission

Simone Lolli, Jasper R. Lewis, Gemine Vivone, Michael Sicard, Ali Tokay, and Ellsworth J. Welton

15:00–15:15

The Potential of the W-band polarization diversity Doppler radar envisaged for the WIVERN mission for looking into the internal structures of Mediterranean cyclones

Alessandro Battaglia, Frederic Tridon, Antonio Parodi, Martina Lagasio, Vincenzo Mazarella, and Anthony Illingworth

15:15–15:30

Combined high-resolution rain/wind measurements over extreme wind events using Synthetic Aperture Radar

Romain Husson, Alexis Mouche, Olivier Archer, Henrick Berger, Aurélien Colin, Charles Peureux, and Gaël Goimard

15:30–15:45

Measuring the urban heat island of Rome through a dense weather station network and imperviousness Copernicus Land Monitoring Service data

Andrea Cecilia, Giampietro Casasanta, Igor Petenko, Alessandro Conidi, and Stefania Argenti

FIRE MONITORING

Chairpersons: Emmanouil Anagnostou, Giulia Panegrossi

15:45–16:00

Atmospheric Precursor of fire hazard: development of a fire-sentinel index for risk management in Abruzzo Region (Central Italy)

Annalina Lombardi, Gabriele Pizzi, Valentina Colaiuda, Fabio Ferrante, Paolo Tuccella, Ludovico Di Antonio, Raffaele Lidori, Daniela Di Fazio, Thomas Malatesta, Jose Maria Costa Saura, Donatella Spano, Vincenzo Rizi, Frank Silvio Marzano, Francesco Luigi Rossi, Silvio Liberatore, Mauro Casinghini, Giuliano Rossi, and Barbara Tomassetti



16:00–16:15

Identification of the most fire susceptible areas in Portugal

Patrícia Páscoa, Tiago Ermitão, and Célia M. Gouveia

16:15–16:30

An automatic algorithm for near real-time burned area mapping from Sentinel-2 data: validation results for 2019-2021 fire seasons over Italy

Elisabetta Fiori, Giuseppe Squicciarino, and Luca Pulvirenti

PLSE4

16:30–17:00

Wrap up of the day

Thursday, 20 October

PL3

Hydro-geological effects of extreme events (e.g., floods, landslides, erosions, coastal dynamics, storm surges etc.)

Conveners: Marco Borga, Giorgio Boni

MODELLING OF WEATHER AND CLIMATE OF EXTREME HYDRO-GEOLOGICAL EVENTS

Chairperson: Giorgio Boni

09:00–09:15

How is the reverse orographic effect on hourly extreme precipitation reproduced by a high resolution climate model?

Eleonora Dallan, Francesco Marra, Giorgia Fossier, Giuseppe Formetta, Marco Marani, Christoph Schaer, and Marco Borga

09:15–09:30

RESILIENCE Project - Extreme Storms in the Italian North-East: frequency, impacts and projected changes

Eleonora Dallan, Marco Borga, Francesco Marra, Giorgia Fossier, Mario Martina, Marco Marani, Carlo Gregoretti, Emanuele Lingua, Antonio Canale, Massimiliano Massimiliano, Martino Bernard, Maximiliano Costa, Luigi Cesarini, Giorgio Dalmasso, Maria Francesca Caruso, Valentina Zanaga, and Mattia Zaramella

09:30–09:45

Statistical methodologies for biases correction of precipitation for a convection-permitting climate model and their spatio-temporal patterns in North-Eastern Italy

Massimiliano Schiavo, Eleonora Dallan, Giorgia Fossier, Francesco Marra, and Marco Borga

09:45–10:00

Hindcast high-resolution simulation of the most catastrophic rainfall event in Genoa City (7-8 October 1970): hydro-meteorological and geomorphological analysis

Antonio Parodi, Giorgio Boni, Francesco Faccini, and Guido Paliaga

PL4

Socio-economic impacts: exposure, vulnerability, perspectives, and adaptation

Conveners: Maria-Carmen Llasat, Pinhas Alpert

Chairperson: Pinhas Alpert

10:00–10:15

From scientific knowledge to individual change of habits: the Barcelona Living Lab on extreme events

Maria Carmen Llasat, Montserrat Llasat-Botija, Raul Marcos, Laura Esbrí, Sandra Racionero, Tomeu Rigo, Joan Gilabert, and Jordi Corbera



10:15–10:30

Examining flood damage occurrence at the local level as a function of rainfall, based on insurance claims across an urban Mediterranean region

Katerina Papagiannaki, Vassiliki Kotroni, Kostas Lagouvardos, Antonis Bezes, Vasileios Vafeiadis, Ioanna Messini, Efstathios Kroustallis, and Ioannis Totos

10:30–10:45

Challenges related to Climate Change and Identification of Risks and Impacts in Jerusalem

Pinhas Alpert, Yoav Rubin, and Yitzhaq Yosef

10:45–11:00

Exploring space and time dimensions of indirect impacts of floods

Chiara Arrighi and Fabio Castelli

11:00–11:30 *Coffee break*

PL1

Diagnosis, trends, causalities, and predictions of extreme weather events in a climate change environment

Conveners: Mario Marcello Miglietta, Vassiliki Kotroni, Jose Luis Sanchez

LIGHTNINGS

Chairperson: Jose Luis Sanchez

11:30–11:45

The frequency of lightning super-bolts in winter thunderstorms associated with Mediterranean cyclones

Yoav Yair, Colin Price, Barry Lynn, Menahem Kurzets, and Yannai Namia-Cohen

11:45–12:00

A pan-Alpine climatology of lightning and convective initiation

Agostino Manzato, Stefano Serafin, Mario Marcello Miglietta, Daniel Kirshbaum, Wolfgang Schulz, and Gabriele Fasano

12:00–12:15

Comparison of the characteristics of hailstones precipitated on one side and the other of the Pyrenees

José Luis Marcos-Menéndez, José Luis Sánchez, Andrés Merino, Eduardo García-Ortega, Andrés Navarro, Claude Berthet, and Jean Dessens

12:15–12:30

A year-long total lightning forecast over Italy made with a dynamic lightning scheme using the WRF model

Stefano Federico, Rosa Claudia Torcasio, Martina Lagasio, Barry H. Lynn, Claudio Transerici, Silvia Puca, and Stefano Dietrich

12:30–12:45

Climatology of high-impact weather events in the Ligurian Sea

Dario Hourngir, Massimiliano Burlando, and Djordje Romanic



PL2

Earth Observation data and techniques for the definition, characterization and monitoring of natural hazards

Conveners: Giulia Panegrossi, Emmanouil Anagnostou, Riccardo Lanari

COASTAL AND LAND HAZARDS MONITORING

Chairpersons: Emmanouil Anagnostou, Francesco Casu

12:45–13:00

costeLAB platform: a prototype collaborative environment for research and applications in support to coastal risk management

Laura Candela, Alessandro Coletta, Maria Girolamo Daraio, Ettore Lopinto, Deodato Tapete, Monica Palandri, Daniele Pellegrino, Massimo Zavagli, Angelo Amodio, Antonio Vecoli, Simone Mantovani, and Claudia Giardino

13:00–13:15

Assessing the Accuracy of Shoreline Evolution Trends Obtained by Using Copernicus Earth Observation Data. Case Study: Mediterranean Coastal Areas

Luca Cenci, Valerio Pampanoni, Giovanni Laneve, Carla Santella, Valentina Boccia, and Clément Albinet

13:15–13:30

DInSAR-based monitoring services for ground deformation retrieval on active volcanoes and seismic regions through spaceborne and airborne radar sensors

Francesco Casu, Paolo Berardino, Manuela Bonano, Sabatino Buonanno, Federica Casamento, Claudio De Luca, Carmen Esposito, Adele Fusco, Riccardo Lanari, Michele Manunta, Mariarosaria Manzo, Fernando Monterroso, Antonio Natale, Giovanni Onorato, Stefano Perna, Yenni Roa, Pasquale Striano, Muhammad Yasir, Giovanni Zeni, and Ivana Zinno

13:30–14:30 *Lunch*

Chairpersons: Francesco Casu, Emmanouil Anagnostou

14:30–14:45

Federated platforms in support of risk assessment and cascading effects: EOPEN1 - one step done, still more to go

Leslie Gale and Gabriella Scarpino

14:45–15:00 (withdrawn)

Exceptionally low susceptibility of aerosol cloud-mediated radiative forcing over the Mediterranean Sea

Daniel Rosenfeld and Yang Cao

15:00–16:30

Poster Session

PLSE4

16:30–17:00

Wrap up of the day



Friday, 21 October

PL3

Hydro-geological effects of extreme events (e.g., floods, landslides, erosions, coastal dynamics, storm surges etc.)

Conveners: Marco Borga, Giorgio Boni

HYDRO-GEOLOGICAL HAZARD FORECAST AND ASSESSMENT

Chairperson: Marco Borga

09:00–09:15

Temperature and slope stability in temperate climate

Gianvito Scaringi, Marco Loche, Saeed Tourchi, and Luigi Lombardo

09:15–09:30

Extreme rainfall estimation in orographically complex ungauged locations

Giuseppe Formetta, Francesco Marra, Eleonora Dallan, and Marco Borga

09:30–09:45

How the spatial structure of extreme rainfall observed by meteo-radars can impact the estimation of the return period of extra-ordinary events?

Giorgio Boni, Silvia De Angeli, Martina Lagasio, and Antonio Parodi

09:45–10:00

User-oriented indices for rainfall-related hydrogeological hazards prediction at regional scale: validation in Central Italy

Annalina Lombardi, Valentina Colaiuda, Davide Gallicchio, Giancarlo Boscaino, Edoardo Raparelli, Paolo Tuccella, Raffaele Lidori, Francesco Luigi Rossi, Silvio Liberatore, and Barbara Tomassetti

10:00–10:15

Early Warning System for hydrogeological risk forecasting in mountain environments: The Rio Croso case study

Barbara Tomassetti, Silvia Ferrarese, Alessio Golzio, Valentina Colaiuda, Marco Luciani, Paolo Tuccella, and Annalina Lombardi

10:15–10:30

Water-Age Accounting, Fully Distributed Watershed Modeling for Flood Forecasting

Fabio Castelli and Chiara Arrighi

10:30–10:45

Changes in flood hazards in North Africa and implications for flood frequency analysis

Yves Tramblay, El Mahdi El Khalki, Lahcen Benaabidate, Tayeb Boulmaiz, Hamouda Boutaghane, Hamouda Dakhlaoui, Lahoucine Hanich, Wolfgang Ludwig, Mohamed Meddi, Mahrez Sadaoui, Mohamed El Mehdi Saidi, and Gil Mahé

PL5

Safeguarding and management of cultural and natural heritage at risk from climate extreme events

Conveners: Alessandra Bonazza, Alessandro Sardella



Chairperson: Alessandro Sardella

10:45–11:00

Safeguarding of the Villa Romana del Casale UNESCO site from severe weather events: the case study of Apollo medicane occurred in October 2021

Fernanda Prestileo, Alessandra Mascitelli, Guido Meli, Marco Petracca, Claudio Giorgi, Davide Melfi, Silvia Puca, and Stefano Dietrich

11:00–11:30 *Coffee break*

Chairperson: Alessandra Bonazza

11:30–11:45

Data, product and service from Copernicus program to support Cultural and Natural Heritage monitoring, protection and management

Nico Bonora, Alessandra Bonazza, Daniele Spizzichino, and Andrea Taramelli

11:45–12:00

GNSS observation for reducing the impact of Slow and Rapid Onset Disasters on cultural heritage – the SNIK CORS

Alberico Sonnessa and Eufemia Tarantino

12:00–12:15

The extraordinary plan for monitoring and conservation of Italian cultural heritage

Daniele Spizzichino, Marica Mercalli, Paolo Iannelli, Carlo Cacace, Antonia Pasqua Recchia, Alessandra Bonazza, Paolo Mazzanti, and Claudio Modena

12:15–12:30

Risk assessment and vulnerability evaluation of cultural landscapes exposed to extreme events linked to climate change: the Wachau case study

Alessandro Sardella, Linda Canesi, Riccardo Cacciotti, Anna Kaiser, and Alessandra Bonazza

PL7

Air quality and Health in the Mediterranean

Conveners: Francesca Costabile, Tareq Hussein

Chairperson: Francesca Costabile

12:30–12:45

On the Redox-Activity and Health-Effects of Atmospheric Primary and Secondary Aerosol

Francesca Costabile and the RHAPS team

12:45–13:00

Past and future health burden: the impact of climate change and air pollution on mortality risk for Rome and Milan

Melania Michetti, Maurizio Gualtieri, Alessandro Anav, Mario Adani, Barbara Benassi, Claudia Dalmastri, Ilaria D'Elia, Antonio Piersanti, Gianmaria Sannino, Gabriele Zanini, and Raffaella Uccelli



13:00–13:15 (withdrawn)

A new approach for spatial mapping of source-specific contributions to carcinogenic and non-carcinogenic risk of potentially toxic trace elements in PM10

Lorenzo Massimi, Eva Pietrantonio, Maria Luisa Astolfi, and Silvia Canepari

13:15–13:30

Evaluation of the effects of the COVID-19 lockdown and the meteorology on surface ozone variability with machine learning techniques

Roberta Valentina Gagliardi and Claudio Andenna

13:30–14:30 *Lunch*

Chairperson: Francesca Costabile

14:30–14:45

Impact of wildfire emissions of PM2.5 and Black Carbon in southern Italy

Jessica Castagna, Alfonso Senatore, Mariantonia Bencardino, Guido Pellis, Marina Vitullo, and Giuseppe Mendicino

PL4

Socio-economic impacts: exposure, vulnerability, prospectives, and adaptation

Conveners: Maria-Carmen Llasat, Pinhas Alpert

Chairperson: Maria-Carmen Llasat

14:45–15:00

Flood risk to society in Italy: a national scale approach

Paola Salvati, Mauro Rossi, Cinzia Bianchi, Mina Yazdani, and Fausto Guzzetti

15:00–15:15

FFEM-DB: the multinational Database of Flood Fatalities from the Euro-Mediterranean region.

Planning a public webgis platform to promote risk awareness and support risk reduction strategies

Olga Petrucci and the FFEM-DB Team

15:15–15:30

I-CHANGE (Individual Change of HABits Needed for Green European transition) project

Antonio Parodi, Silvana Di Sabatino, Francesca Munerol, Erika Brattich, Pinhas Alpert, Paolo Mazzetti, Francesco Pilla, Maria Carmen Llasat, Gert-Jan Steeneveld, Muhammad Adnan, Fredrik Wetterhall, Katriina Soini, Eskil Welan, Katja Firus, Milan Kalas, Carlo Trozzi, Ephraim Broschkowski, and Seyni Salack

15:30–15:45

Deciphering the impact of hydro-geological hazards on Italian firms: a nation-wide assessment

Samuele Segoni, Stefano Clò, and Francesco David

15:45–16:00

A bottom-up approach to forecast and manage water crises in the Turin area

Elisa Brussolo, Christian Ronchi, Alessio Salandin, Roberto Cremonini, and Secondo Barbero



16:00–16:15 (withdrawn)

Vulnerability of maize, barley, and wheat yields to growing season temperature and socioeconomic indicators in Morocco

Soumia Achli, Terence Epule Eplule, Driss Dhiba, Abdelghani Chehbouni, Salah Er-Raki, and Wiam Salih

16:15–16:30

A combined flood-seismic resilience-based planning framework to improve the recoverability of urban settlements

Soheil Mohammadi, Serena Cattari, Francesca Pirlone, Giorgio Boni, and Silvia De Angeli

PLSE3

16:30–17:00

Closing

POSTERS

P1

Tornadoes in Italy: comparative analysis of two Mediterranean tornado hotspots

Elenio Avolio and Mario Marcello Miglietta

P2

Analysis of the development mechanisms of a large-hail storm event, on the Adriatic Sea using an atmosphere-ocean coupled model (COAWST)

Antonio Ricchi, Vincenzo Mazzeola, Frank Marzano, Mario Marcello Miglietta, Errico Picciotti, Mario Montopoli, Luca Baldini, Gianfranco Vulpiani, Alessandro Tiesi, Simone Mazzà, and Rossella Ferretti

P3

An ANN forecasting system for convective storms: the legacy of the LAMPO project

Giovanna Venuti, Ehsan Mehdipour, Eugenio Realini, Valerio Guglieri, Matteo Sangiorgio, Giorgio Guariso, Stefano Barindelli, Enrico Solazzo, Riccardo Biondi, and Matteo Cislighi

P4

A modelling hindcast of four waterspouts along the Tuscany coast with sensitivity tests to SST anomalies

Valerio Capecchi, Alberto Ortolani, and Bernardo Gozzini

P5

The assimilation of the rain-rate from satellites: preliminary results of the AEROMET project

Rosa Claudia Torcasio, Alessandra Mascitelli, Giulia Panegrossi, Claudio Transerici, Stefano Dietrich, Fabio Del Frate, and Stefano Federico

P6

Spatio-temporal evaluation of three rainfall prediction methods on French Riviera coastal catchments

Sarah Vigoureux, Pierre Brigode, Maria-Helena Ramos, Pierre Javelle, Julie Poggio, Stan Nomis, Raphaëlle Dreyfus, Olivier Delestre, Emmanuel Moreau, Christophe Laroche, and Emmanuel Tric

P7

Combined ground and space-borne lightning detection over a mountainous region

Alessandra Tiberia, Enrico Arnone, and Stefano Dietrich

P8

Are the effects of risk mitigation measures caught by Italian flood risk maps?

Margherita D'Ayala, Marcello Arosio, and Mario Martina

P9

Hydro-geological risk prediction: the operational activity in Abruzzo Region for the rainfall-induced landslides forecasting

Barbara Tomassetti, Valentina Colaiuda, Giancarlo Boscaino, Paolo Tuccella, Raffaele Lidori, Ludovico Di Antonio, Francesco Luigi Rossi, Adelaide Memmo, Silvio Liberatore, and Annalina Lombardi



P10

Evaluation of the impact of calibration period for distributed modelling of the hydrological cycle during droughts

Giulia Bruno, Doris Duethmann, Francesco Avanzi, Lorenzo Alfieri, Andrea Libertino, and Simone Gabellani

P11

Climate suitability analysis in the context of EFSA Pest Risk Assessment. *Amyelois transitella*, the navel-orange worm, as a case study

Caterina Campese, Ewelina Czwienczek, Giuseppe Stancanelli, Wopke van der Werf, and Andrea Maiorano