

SISC2023: Mission Adaptation!

Managing the risk
and building resilience

11th Annual Conference
of the Italian Society for Climate Sciences

Milan
22 - 24 November 2023



With the support of the European Association of Environmental and Resource Economists - EAERE

PROGRAMME OVERVIEW

Wed 22 Nov 2023	Thu 23 Nov 2023	Fri 24 Nov 2023
	08:45-09:00 Registrations	08:45-09:00 Registrations
	09:00-10:10/10:30 PARALLEL SESSION 3	09:00-10:30 PARALLEL SESSION 5
10:00-10:30 Registrations		
10:30-11:00 Welcome	10:30-11:00 Coffee break	10:30-11:00 Coffee break
11:00-12:10/12:30 PARALLEL SESSION 1	11:00-12:30 POSTER SESSION 2	11:00-12:30 PARALLEL SESSION 6
12:10-14:00 Lunch break	12:10-14:30 Lunch break	12:30-13:00 Reflections on the conference and Award session
14:00-15:30 POSTER SESSION 1	14:30-15:30 KEYNOTE LECTURE	14:00-15:30 SISC General Assembly
15:30-16:00 Coffee break	15:30-16:00 Coffee break	
16:00-17:30 PARALLEL SESSION 2	16:00-17:30 PARALLEL SESSION 4	16:00-18:00 SIDE EVENT*

(*) In Italian – open to general public. “Adattamento ai cambiamenti climatici: Confronto tra scienze e pratica nel contesto italiano”
Further info at: <https://www.sisclima.it/conferenza-annuale-2023/side-event/>

Preliminary programme: Sessions' overview and rooms

!! UPDATED: 21 Nov 2023 !!

Day	Time	Room Biagi	Room Solesin	Room 4
WED 22 NOV	10:30-11:00	Welcome 3 relatori	---	---
	11:00-12:10/12:50	S1.1 – Local and regional adaptation studies (4)	S1.2 – Cyclone and tropical storm studies (5)	S1.3 – Managing climate-induced risks in forest ecosystems (3)
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	14:00-15:30	Poster session 1	---	---
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	16:00-17:30	S2.1 – Climate studies in Alps and Apennines (4)	S2.2 – Climate Change and agriculture: Models, adaptation strategies, and knowledge integration (4)	S2.3 – Promoting urban and forest resilience (4)
THU 23 NOV	09:00-10:10/10:30	S3.1 – Coastal climate modelling and risk reduction (4)	S3.3 Climate adaptation strategies (health and wellbeing) (3)	---
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	11:00-12:30	Poster session2	---	---
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	14:30-15:30	Keynote lecture	---	---
	15:30-15:40	Group Photo	---	---
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	16:00-17:30	S4.1 – Facilitating climate-related decision making (4)	S4.2 – Climate extremes and regional variability (4)	S4.3 – Heatwave in Mediterranean Regions (4)
FRI 24 NOV	09:00-10:10/10:50	S5.1 – Support adaptation at local scale (4)	S5.2 – Climate modelling and Impact (5)	S5.3 – Risk Management of Drought (3)
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	11:00-12:30	S6.1 – Assessing and adapting to coastal and urban flooding risks (4)	S6.2 Climate-Responsive Water Management and Infrastructure (4)	S6.3 Mitigation and adaptation strategies for socio-economic sectors (4)
	12:30-13:00	Reflections on the conference	---	---

Preliminary Programme

!! UPDATED: 21 Nov 2023 !! (DRAFT 14)

Day 1 | Wednesday 22 November 2023

Wed 22 Nov	10:00 – 10:30 (CET) - Registration of participants	Hall
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Wed 22 Nov	10:30 – 11:00 (CET) - Conference opening and welcome	Room Biagi
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Maria Cristina FACCHINI, SISC President

Giorgio MAIONE, Regione Lombardia

Fabrizio PICCAROLO, Fondazione Lombardia per l'Ambiente

Wed 22 Nov	11:00– 12:30 (CET) S1.1 – Local and regional adaptation studies Chair: Antonio BALLARIN DENTI, FLA, Milan, Italy	Room Biagi
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11:00-11:10 Introduction

11:10-11:30 **Monitoring, managing, and disclosing adaptation to climate change in the Lombardy Region**

Gian Luca GURRIERI, Regione Lombardia, Milan, Italy

Author(s): N. Carfagno, G.L. Gurrieri, M. Lapi, A. Nurce, F. Piccarolo

11:30-11:50 **Disinformation and climate sciences: A digital AGORA and a set of digital tools to tackle disinformation supporting adaptation**

Arianna ACIERNO, CMCC, Lecce, Italy

Author(s): A. Acierno, M. Buonocore, S. Santin, A. Reder, M. Adinolfi, P. Mercogliano, F. Sanz, J. Barba, A. Moreno, D. Tsabouraki, A. Doulgerakis

11:50-12:10 **Enabling Technologies for mapping, modeling and simulation of environmental performance in urban settings. The Application case of a district in north Naples**

Sara VERDE, University of Naples "Federico II", Naples, Italy

Author(s): S. Verde, M. Di Palma, F. Dell'Acqua, M. Rigillo

12:10-12:30 **Adaptation pathways for agricultural water management: A multi-stakeholder approach in the IMPETUS demo site of Valle dei Laghi (Italy)**

Giorgia ROBBIATI, B.I.M. Sarca-Mincio-Garda, Tione di Trento TN, Italy

Author(s): G. Robbiati, M. Dall'Amico, M. Rizzari, S. Cocuccioni, V. D'Alonzo

Wed
22
Nov

11:00– 12:50 (CET)
S1.2 – Cyclone and Tropical Storm studies
Chair: Claudio CASSARDO, University of Torino, Turin TO, Italy

Room Solesin

- 11:00-11:10 Introduction
- 11:10-11:30 **On the possible relation between Mediterranean tropical-like cyclones and SST**
Elenio AVOLIO, CNR-ISAC, Italy
Author(s): E. Avolio, C. Fanelli, A. Pisano, M.M. Miglietta
- 11:30-11:50 **Enhancing tropical cyclone rainfall reanalysis and forecasts for anticipatory action using deep learning**
Guido ASCENSO, Politecnico di Milano, Milano, Italy
Author(s): G. Ascenso, A. Ficchi, M. Giuliani, E. Scoccimarro, L. Cavicchia, L. Magnusson, A. Castelletti
- 11:50-12:10 **Tropical cyclone genesis potential indices in a new high-resolution climate models ensemble: Limitations and way forward**
Leone CAVICCHIA, CMCC, Bologna, Italy
Author(s): L. Cavicchia, E. Scoccimarro, G. Ascenso, A. Castelletti, M. Giuliani, S. Gualdi
- 12:10-12:30 **An analytical expression for the probability of occurrence of tornadoes as a function of selected meteorological factors**
Piero LIONELLO, University of Salento, Lecce, Italy
Author(s): R. Ingresso, P. Lionello, M.M. Miglietta, G. Salvadori
- 12:30-12:50 **Synthetic generation of extra-tropical cyclones' fields with generative adversarial networks**
Filippo DAINELLI, Politecnico di Milano, Milano, Italy
Author(s): F. Dainelli, R. Taormina, G. Ascenso, E. Scoccimarro, M. Giuliani, A. Castelletti

Wed
22
Nov

11:00– 12:10 (CET)
S1.3 – Managing Climate-Induced Risks in Forest Ecosystems
Chair: Bachisio ARCA, CNR-IBE, Sassari, Italy

Room 4

- 11:00-11:10 Introduction
- 11:10-11:30 **Where to start with climate-smart forest management? Climatic risk for forest-based mitigation**
Natalie PIAZZA, University of Milan, Milan, Italy
Author(s): N. Piazza, L. Malanchini, E. Nevola, G. Vacchiano
- 11:30-11:50 **Fuelling the fires: An exploration of the drivers of European wildfire risk and the scope for adaptation under the shared socioeconomic pathways**
Eva PREINFALK, IIASA, Graz, Austria
Author(s): E. Preinfalk, J. Handmer
- 11:50-12:10 **Co-design of fuel management strategies to reduce fire risk in a Mediterranean protected area**
Valentina BACCIU, CNR-IBE, Sassari, Italy
Author(s): C. Scarpa, M. d'Angelo, M. Salis, L. Del Giudice, V. Bacciu, A. Ventura, B. Arca, P. Duce, G. Pellizzaro

Wed
22
Nov

12:10/12:30/12:50 – 14:00 (CET) – Lunch break

Room 1

Wed
22
Nov

14:00 – 15:30 (CET)
POSTER SESSION 1

Room Biagi

- [P1] **Hyperspectral, discrete and XRD analyses on Adamello glacier ice-core sections focusing on dust layers**
Deborah FIORINI, University of Milano-Bicocca, Milan, Italy
Author(s): D. Fiorini, C. Artoni, E. Distefano, C. Mangili, L. Cremonesi, G. Baccolo, B. Delmonte, V. Maggi
- [P2] **Exploring the feasibility of global climate data for local microclimate modeling**
Marco ZANCHI, University of Milan, Milan, Italy
Author(s): M. Zanchi, S. Zapperi, C. La Porta
- [P3] **Meteorological data analysis of Prato Sopralacrose observation station during the year 2022-2023**
Claudio MONTEVERDE, Osservatorio Meteorologico, Agrario, Geologico Prof. Don Gian Carlo Raffaelli, Casarza Ligure - Bargone, Italy
Author(s): C. Monteverde, C. Cagnazzo
- [P4] **A first attempt to integrate data from climate change projections into debris flow hazard planning: A case study in the Toverino river basin, South Tyrol, Italy**
Laura BOZZOLI, Eurac Research, Trento, Italy
Author(s): L. Bozzoli, S. Steger, A. Crespi, M. Zebisch
- [P5] **Extreme wind analysis in Piedmont, Italy**
Claudio CASSARDO, University of Turin, Turin, Italy
Author(s): C. Cassardo, V. Andreoli, M. Bassi, B. Cagnazzi, R. Cremonini, M. Manfrin
- [P6] **Flood risk in the Alps: Implications of rainfall and temperature variations on hydrological extremes**
Giulia EVANGELISTA, Politecnico di Torino, Turin, Italy
Author(s): G. Evangelista, M. Demateis Raveri, I. Monforte, P. Claps
- [P7] **Heavy precipitation in Trentino – South Tyrol (north eastern Italian Alps): Current trend and variability assessment in the context of climate change**
Elena MAINES, Eurac Research, Bolzano, Italy
Author(s): E. Maines, A. Crespi, S. Steger, M. Zebisch
- [P8] **The importance in preserving alpine Lake Azzurro as a natural resource in the context of climate change**
Alessandro CEPPI, Politecnico di Milano, Milan, Italy
Author(s): A. Ceppi, G. Taborelli, G. Becciu, M. Marchioni, C. Dresti
- [P9] **Building climate resilience in the context of fire risk: First insights from The HUT project**
Valentina BACCIU, CNR-IBE, Sassari, Italy
Author(s): V. Bacciu, J. Costa Saura, G. Pellizzaro, B. Arca, P. Duce, D. Spano, C. Sirca
- [P10] **Developing a climate change adaptation plan for Milan airports: A methodological approach**
Luca CETARA, Eurac Research, Rome, Italy
Author(s): P. La Malva, M. Pregolato, L. Battezzati, L. Cetara, M. Lapi, A. Ballarin Denti
- [P11] **Meteo-climatic factors, air pollutants and daily Emergency Department visits to analyze upper and low acute respiratory diseases. Preliminary results of an integrated multi-models application**
Vito TELESKA, University of Basilicata, Potenza, Italy
Author(s): V. Telesca, V. Condemi, M. Gestro, G. Castronuovo, M. Rondinone
- [P12] **Science-policy interface challenges for local adaptation to a changing climate: Study of a scenario construction experience**
Catalina AMIGO, University of Chile, Santiago, Chile
Author(s): C. Amigo, A. Allendes, A. Urquiza, M.C. Fragkou

- [P13] **Asymmetric effect of late freeze on winter-wheat yield distribution**
Eunchun PARK, University of Arkansas, Fayetteville, United States
Author(s): E. Park, C.N. Boyer, S. Ahn
- [P14] **A fuzzy calculation system for calculating corporate ESG scores**
Carmine MOCCIA, University of Salento, Lecce, Italy
Author(s): C. Moccia, V. Stefanelli, P. Marchetti, I. Mariantonietta, G. Mastroleo
- [P15] **Future projections of wet snow frequency and wet snow load on overhead high voltage conductors over Italy**
Paola FAGGIAN, RSE S.p.A., Milano, Italy
Author(s): P. Faggian, A. Trevisiol
- [P16] **Hunting climate extremes by correcting the forecasts: An analytical bias correction of the tails**
Laura TRENTINI, Amigo srl, Italy
Author(s): L. Trentini, S. Dal Gesso, M. Venturini, F. Guerrini, S. Calmanti, M. Petitta
- [P17] **Design of landscape preparation plans for wildfire prevention: a climate change perspective**
Bachisio ARCA, CNR-IBE, Sassari, Italy
Author(s): B. Arca, F. Casula, G. Tesei, G. Zuccarelli, F. Pedes, V. Bacciu, M. Salis, G. Pellizzaro, A. Casula, S. Maltoni, M. Casula

Wed
22
Nov

15:30 – 16:00 (CET) – Coffee break

Room 1

Wed
22
Nov

16:00 – 17:30 (CET)
S2.1 – Climate studies in Alps and Apennines
Chair: Roberto Barbiero, APPA, Trento, Italy

Room Biagi

- 16:00-16:10 Introduction
- 16:10-16:30 **The future in the past: First year results from ClimADA project – A climatic and environmental reconstruction of the Adamello glacier and the Central Alps**
Simone PICCO, FLA, Robbiate, Italy
Author(s): A. Bonettini, S. Picco, M. Lapi, A. Ballarin Denti, V. Maggi, P. Martelli, R. Ranzi, G. Grossi
- 16:30-16:50 **The retreat of the Adamello Glacier in a changing climate from snow measurements, meteorological data and remote sensing observations**
Paolo COLOSIO, University of Brescia, Brescia, Italy
Author(s): P. Colosio, G. Grossi, M.U. Liaqat, R. Ranzi
- 16:50-17:10 **Measurements and models of carbon dioxide fluxes in Alpine ecosystems**
Marta MAGNANI, CNR-IGG, Turin, Italy
Author(s): M. Magnani & the CZ collective
- 17:10-17:30 **On the role of local and large-scale atmospheric variability in snow cover duration: a case study of Montevergine Observatory (Southern Italy)**
Vincenzo CAPOZZI, University of Naples "Parthenope", Napoli, Italy
Author(s): C. Annella, G. Budillon, V. Capozzi

Wed
22
Nov

16:00– 17:30 (CET)

S2.2 – Climate change and agriculture: Models, adaptation strategies, and knowledge integration

Room
Solesin

Chair: Domenico VITO, FLA, Milan, Italy

- 16:00-16:10 Introduction
- 16:10-16:30 **Peach production in France in the XXI century facing climate change and fungal diseases: Insights from phenological and epidemiological models for adaptation and control**
Chiara VANALLI, The Pennsylvania State University, University Park, United States
Author(s): C. Vanalli, A. Radici, R. Casagrandi, M. Gatto, D. Bevacqua
- 16:30-16:50 **Stage-specific winter wheat vulnerability curves tailored to the Po Plain context**
Beatrice MONTELEONE, IUSS, Pavia, Italy
Author(s): B. Monteleone, I. Borzì, M. Arosio, L. Cesarini, B. Bonaccorso, M. Martina
- 16:50-17:10 **Clustering farmers' adaptation preferences to face climate change in northern Italy**
Sandra RICART, Politecnico di Milano, Milano, Italy
Author(s): S. Ricart, L. Ferrari, P. Gazzotti, A. Castelletti
- 17:10-17:30 **Supporting agri-food projects to implement climate change adaptation by combining impact chains and semantic technologies to assess complex knowledge on climate risk**
Kathrin RENNEN, Eurac Research, Bolzano, Italy
Author(s): K. Renner, M. Pittore, A. Mosca, F. Corcoglioniti, L. Cramer, O. Bonilla-Findji, A. Gosling, K. Gitau Ng'ang'a

Wed
22
Nov

16:00– 17:30 (CET)

S2.3– Promoting urban and forest resilience

Room 4

Chair: Valentina BACCIU, IBE-CNR, Sassari, Italy

- 16:00-16:10 Introduction
- 16:10-16:30 **Exploring human-forest interfaces in Sardinia: Barriers and social-ecological drivers for forest owners and operators in achieving sustainable forest management**
Alessio MENINI, CMCC, Sassari, Italy
Author(s): A. Menini, S. Marras, V. Bacciu
- 16:30-16:50 **Assessing the climatic suitability of tree species for urban afforestation**
Cristiano GALA, University of L'Aquila - CETEMPS, L'Aquila, Italy
Author(s): C. Gala, G. Curci, A. Marucci, L.G. Pace
- 16:50-17:10 **Remote sensing for urban heat island assessment and climate change adaptation through nature-based solutions**
Davide PALLOTTA, LAND Italia, Milan, Italy
Author(s): G. Giacco, G. Castellazzi, D. Pallotta, M. Rigioli
- 17:10-17:30 **Adaptive forest management in EU and implications for ecosystem services provision, trade-offs and synergies: Insights from the first Stakeholders' Board Workshop of the ForestNavigator project**
Melania MICHETTI, ENEA, Bologna, Italy
Author(s): M. Michetti, F. Eboli

Wed
22
Nov

20:00 – Social dinner

TERRAFERMA RESTAURANT

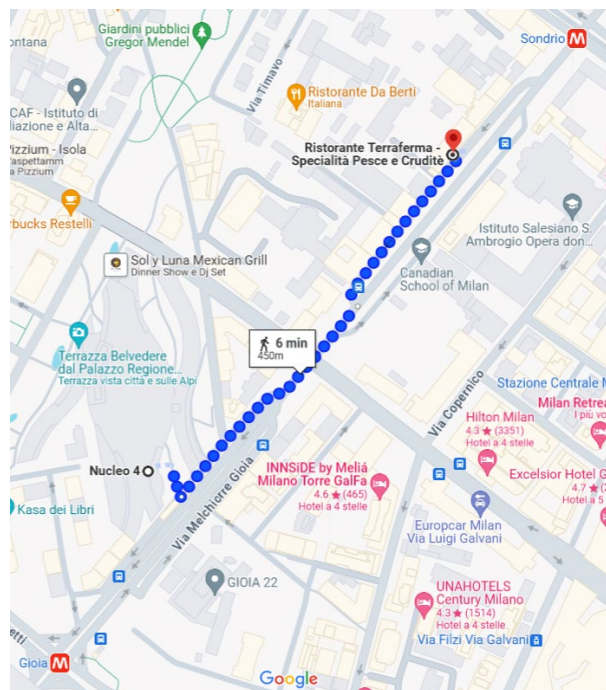
via Melchiorre Gioia 63

Milan

<https://www.ristoranteterraferma.it/>

Terraferma Restaurant is an out-of-the ordinary restaurant located in a very central area of Milan, close to Piazza Città di Lombardia, near the new Piazza Gae Aulenti and the nightlife of Corso Como. Well served by public transport (Line MM3 – Sondrio is the subway stop) the location is elegant, but informal with wooden ceilings and characteristic niches. The staff's welcome is both professional and warm in the kitchen and the dining room. Each day, they work with passion to bring quality and freshness. Ristorante Terraferma's cuisine is straightforward and authentic: pasta and desserts are homemade; fish, fruit and vegetables are carefully selected daily by the chef.

Terraferma is recommended by [Eccellenzeitaliane.com](https://www.eccellenzeitaliane.com)



Day 2 | Thursday 23 November 2023

Thu
23
Nov

08:45 – 09:00 (CET) - Registration of participants

Thu
23
Nov

09:00 – 10:30 (CET)

S3.1 – Coastal climate modelling and risk reduction

Chair: Andrea Castelletti, Politecnico di Milano, Milan, Italy

Room Biagi

09:00-09:10 Introduction

09:10-09:30 **Using an artificial neural network to assess geo physical parameters evolution of mediterranean coastal lagoons in response to Climate Change**

Piero LIONELLO, University of Salento, Lecce, Italy

Author(s): F. Bozzeda, P. Lionello

09:30-09:50 **Global coastal risk assessment: A new flexible application in ARIES**

Marco BIDOIA, Fondazione Eni Enrico Mattei, Venice, Italy

Author(s): M. Bidoia, C. Giupponi

09:50-10:10 **A two-tier machine learning methodology for the estimate of the impact frequency in the Veneto coastal area**

Davide M. FERRARIO, IUSS PAVIA / Università Ca' Foscari - Venezia, Venice, Italy

Author(s): M.K. Dal Barco, M. Maraschini, D.M. Ferrario, N.D. Nguyen, O. Rufo, H. Labella Fonseca, R. Harris, S. Gottardo, E. Tosarin, S. Vascon, S. Torresan, A. Critto

10:10-10:30 **The PRINTFLOODS project: Increasing climate resilience in coastal areas through enhanced flood predictions**

Andrea FICCHÌ, Politecnico di Milano, Milan, Italy

Author(s): A. Ficchi, A. Castelletti

Thu
23
Nov

09:00 – 10:10 (CET)

S3.2 – Climate adaptation strategies (health and wellbeing)

Chair: Maria Cristina Facchini, ISAC CNR, Bologna, Italy

Room
Solesin

09:00-09:10 Introduction

09:10-09:30 **Increase in airborne allergenic pollen in Trentino (North Italy): knowledge to adapt to climate change**

Fabiana CRISTOFOLINI, Fondazione Edmund Mach, San Michele all'Adige, Trento, Italy

Author(s): F. Cristofolini, A. Cristofori, R. Barbiero, E. Gottardini

09:30-09:50 **Temperature anomalies and health capital: Long-term consequences of exposure in critical periods**

Giulia VALENTI, Ca' Foscari University of Venice, Venice, Italy

Author(s): Ca. Midões, F. Vona, E. De Cian

09:50-10:10 **Adapting to heat extremes with unequal access to cooling: Evidence from India**

Filippo PAVANELLO, University of Bologna, Padova, Italy

Author(s): F. Pavanello, I.S. Wing

Thu
23
Nov

10:10/10:30 – 11:00 (CET) – Coffee break

Thu
23
Nov

11:00 – 12:30 (CET)
Poster session 2

Room Biagi

- [P18] **δημος-κράτος: strategies and instances for participatory democracy in response to inattention to ongoing emergencies**
Alfredo REDER, CMCC, Caserta, Italy
Author(s): M. Di Giorgio, A. Reder, P. Mercogliano
- [P19] **Clustering of peak energy demand for cooling over the past two decades**
Oreste CATTANEO, CMCC, Bologna, Italy
Author(s): E. Scoccimarro, O. Cattaneo, S. Gualdi, F. Mattion, A. Bizeul, A. Martin Risquez, R. Quadrelli
- [P20] **A new dataset of daily observations from a dense network of weather stations covering the Extended Alpine Region**
Giulio BONGIOVANNI, University of Trento, Baldissero D'Alba, Italy
Author(s): G. Bongiovanni, M. Matiu, A. Crespi, A. Napoli, B. Majone, D. Zardi
- [P21] **Smallholder livestock farmers coping and adaptation strategies to agricultural drought in South Africa**
Yonas BAHTA, University of the Free State, Bloemfontein, South Africa
- [P22] **Changes in extreme precipitation in Poland along with progressive warming of climate**
Iwona PINSKWAR, Poznań University of Life Sciences, Poznań, Poland
Author(s): I. Pińskwar, A. Choryński
- [P23] **Building climate-ready cities: The role of extreme events analysis**
Cristina LAVECCHIA, Fondazione OMD, Milano, Italy
Author(s): C. Lavecchia, S. Pilati, G. Frustaci
- [P24] **Towards multi-hazard, border-independent exposure analysis for operational climate and disaster risk preparedness applications**
Piero CAMPALANI, Eurac Research, Bolzano, Italy
Author(s): P. Campalani, K. Renner, A. Crespi, S. Steger, M. Moreno, M. Pittore
- [P25] **Leveraging machine learning as a key digital tool to model environmental processes**
Silvia TORRESAN, CMCC, Venice, Italy
Author(s): E. Furlan, A. Bianconi, F. Zennaro, C. Simeoni, H.V. Pham, S. Vascon, S. Torresan, A. Critto, A. Marcomini
- [P26] **A pan-European analysis of drought events and impacts**
Martina MERLO, Politecnico di Milano, Milan, Italy
Author(s): M. Merlo, M. Giuliani, Y. Du, I. Pechlivanidis, A. Castelletti
- [P27] **BRIANZA CLIMATE CHANGE: Adaptation through planning of urban green areas**
Simone PICCO, FLA, Robbiate, Italy
Author(s): S. Picco, F. Oggioni, S. Fontana, M. Lapi, A. Ballarin Denti
- [P28] **Pedestrian thermal comfort mapping and utilization of shade for heat adaptation in the Suwon city**
Gayoung YOO, Kyunt Hee University, Yongin-si, South Korea
Author(s): G. Yoo, J. Hong, Y. Chae, J.H. Hwang
- [P29] **Climate litigation and adaptation issues: Strategic approaches from Europe**
Elisa FIORINI BECKHAUSER, CMCC, Lecce, Italy
Author(s): E. Fiorini Beckhauser, G. Galluccio

- [P30] **Vulnerable municipalities: Revitalization processes of Polish towns in the context of extreme meteorological events**
Adam CHORYŃSKI, Poznań University of Life Sciences, Poznań, Poland
Author(s): A. Choryński, I. Pińskwar, M. Krzyżaniak
- [P31] **The laboratory of alpine climatology**
Fiorella ACQUAOTTA, University of Turin, Turin, Italy
Author(s): F. Acquaotta, C. Viani, A. Baronetti, D. Guenzi, E. Reguzzoni, M. Giardino
- [P32] **Fiber optic sensors for environmental monitoring**
Andrea MADASCHI, Politecnico di Milano, Milano, Italy
Author(s): M. Ferrario, J. Morosi, M. Brunero, A. Madaschi, D. Bodanapu, L. Albertelli, P. Martelli
- [P33] **Public communication of science with territorial relevance: Challenges and learnings from an experience of climate change adaptation.**
Catalina AMIGO, University of Chile, Santiago, Chile
Author(s): R. Fuster, M. Fleischmann, C. Amigo, M. Billi, R. Bórquez, M. Cuevas, C. Escobar, Í. Irarrázabal, H. Moya, J. Rauld, K. Silva
- [P34] **Uncovering upstream residents' preferences for flood damage reduction in downstream areas due to the installation of a retarding basin**
Takahiro TSUGE, Sophia University, Tokyo, Japan
Author(s): T. Tsuge, A. Onuma
- [P35] **Modeling the effects of alternative fuel treatment strategies to reduce wildfire impacts in a Mediterranean area**
Valentina BACCIU, CNR-IBE, Sassari, Italy
Author(s): L. Del Giudice, R. Jahdi, B. Arca, M. Melis, R. Lovreglio, P. Duce, M. Salis, V. Bacciu

Thu
23
Nov

12:30 – 14:30 (CET) – Lunch break

Thu
23
Nov

14:30 – 15:30 (CET)
Keynote Lecture – Alberto Troccoli
Chair: Silvio Gualdi, CMCC, Bologna, Italy

How can we balance adaptation measures with mitigation targets in a changing climate? The case of the Energy sector

Alberto Troccoli

World Energy & Meteorology Council / Inside Climate Service srl

The energy sector is one of the main emitters of greenhouse gases. It must therefore be a key actor in trying to avert the ever-worsening damage caused by the impacts of climate change through the global energy transition towards renewable energy (RE). As these RE resources are largely driven by weather factors, it is critical to understand and predict the effect of the variability of relevant meteorological variables on RE generation, as well as on energy demand, itself also dependent on weather. Moreover, climate change poses increasing risks to energy infrastructure such as damages to pylons and lines due to fire or storms, to substations due to flooding, etc. It may also affect the provision of energy due to changing conditions of events like wind lulls (for wind power), droughts (for hydro power), heat waves (for energy demand), etc.. After reviewing some of the many ways in which climate and energy interact with each other, this talk will explore some of currently identified climate risks for energy production and infrastructure, also comparing adaptation and mitigation costs for the energy sector. While implementation of some climate adaptation options looks inevitable it is important not to divert the attention from mitigation actions.

Alberto Troccoli is the co-founder and Managing Director of the World Energy & Meteorology Council, co-founder and CEO of Inside Climate Service srl, and a visiting professor at the University of East Anglia (UK). He has over 25 years of experience in the fields of meteorology and climate, and in the last 15 years has been exploring their applications to the energy, and other, sectors. His career includes time at several leading institutions such as NASA, ECMWF (UK), the University of Reading (UK) and CSIRO (Australia). Alberto has published extensively and is also the chief editor and an author of four books. He is also the main author of a few United Nation's World Meteorological Organization's publications such as the *Global Framework for Climate Services' Energy Sector Exemplar* (2017), the *Integrated Weather and Climate Services in Support of Net Zero Energy Transition* (2023), and the *2022 Year in review: Climate-driven Global Renewable Energy Potential Resources and Energy Demand* (2023, upcoming). He is also the leader of the Copernicus Climate Change Service's Energy operational service. In addition, he has led the development of the Teal tool (<https://tealtool.earth>), a user-friendly free interactive visualisation tool which allows global historical climate and carbon emissions data (and soon climate projections too) to be easily visualised, understandable and accessible. Alberto holds a PhD in Physical Oceanography from the University of Edinburgh (UK).

Thu
23
Nov

15:30 – 15:40 (CET) – **Group Photo**
Be ready with your best smile for the group photo!

Room Biagi

Thu
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Nov

15:40 – 16:00 (CET) – Coffee break

Thu
23
Nov

16:00 – 17:30 (CET)
S4.1 – Facilitating climate-related decision making
Chair: Simone PICCO, FLA, Milan, Italy

Room Biagi

16:00-16:10 Introduction

16:10-16:30 **Multi-scale geovisualization of climate justice: unburnable carbon scenarios towards a fair and just transition from fossil fuels**

Daniele VEZZELLI, University of Padova, Verona, Italy

Author(s): D. Vezzelli, D. Codato, S.E. Pappalardo, M. De Marchi

16:30-16:50 **Multi-platform assessment of coastal protection and carbon sequestration in the Venice Lagoon under future scenarios**

Perla RIVADENEYRA, Fondazione Eni Enrico Mattei, Milan, Italy

Author(s): F. Cornacchia, A. Gabino Martínez-Hernández, P. Rivadeneyra, A. Terpereau, C. Giupponi

16:50-17:10 **Adaptation strategies on wetlands areas through community resilience empowerment: the case study of Sebino bogs**

Domenico VITO, FLA, Milan, Italy

Author(s): M. Lapi, D. Vito, S. Picco, S. Fontana, A. Ballarin Denti

17:10-17:30 **Climate literacy for adaptation: stories from the Adriatic Region**

Ottavia CARLON, CMCC, Venice, Italy

Author(s): O. Carlon, S. Santin, M. Buonocore, A. Glauda

Thu
23
Nov

16:00 – 17:30 (CET)

S4.2 – Climate extremes and regional variability

Chair: Federico Grazzini, ARPAE Emilia-Romagna, Bologna, Italy

Room Solesin

- 16:00-16:10 Introduction
- 16:10-16:30 **Evaluation of reanalyses and observations for analysing long-term climate variability and extremes at regional scale: the case of the Marche region (Central Italy)**
Alice CRESPI, Eurac Research, Bolzano, Italy
Author(s): A. Crespi, A. Napoli, G. Galassi, M. Lazzeri, A. Parodi, M. Pittore, D. Zardi
- 16:30-16:50 **Can seasonal forecasts predict windstorms? A Standardized Windstorm Index for an impact-oriented analysis of extreme wind events**
Federica GUERRINI, Amigo srl, Rome, Italy
Author(s): F. Guerrini, L. Trentini, S. Dal Gesso, M. Venturini, S. Calmanti, M. Petitta
- 16:50-17:10 **High-resolution investigation of the spatiotemporal variability of rainfall extremes in Italy**
Paola MAZZOGLIO, Politecnico di Torino, Turin, Italy
Author(s): P. Mazzoglio, D. Ganora, I. Butera, P. Claps
- 17:10-17:30 **Portal of regional climate projections for north-eastern Italy: a novel tool for adaptation at local scale**
Giovanni MASSARO, Arpa Veneto, Teolo (PD), Italy
Author(s): G. Massaro, V. Gallina, A. Cicogna, F. Zecchini, F. Rech, G. Resci, S. Micheletti

Thu
23
Nov

16:00 – 17:30 (CET)

S4.3 – Heatwave in Mediterranean regions

Chair: Melania Michetti, ENEA, Bologna, Italy

Room 4

- 16:00-16:10 Introduction
- 16:10-16:30 **A new index to detect heatwaves for Piedmont, North-West Italy**
Agnese Maria COLIZZI, University of Turin, Turin, Italy
Author(s): A.M. Colizzi, B. Cagnazzi, C. De Luigi, F. Acquaotta
- 16:30-16:50 **Monitoring & forecasting of marine heatwaves in the Mediterranean sea**
Ronan MCADAM, CMCC, Bologna, Italy
Author(s): R. McAdam, S. Masina, S. Gualdi, H. Dayan, M. Juza, G. Bonino, S. Speich, E. Clementi, E. Scoccimarro
- 16:50-17:10 **Supporting adaptation through extreme events analysis: Insights from temperature extremes in Padua, Italy**
Carlo ZANETTI, University of Padova, Padova, Italy
Author(s): C. Zanetti, V. Todeschi, S.E. Pappalardo, M. De Marchi
- 17:10-17:30 **Heat waves in Italy over the recent period: Features and tendencies**
Giulio SETTANTA, ISPRA, Rome, Italy
Author(s): G. Settanta, P. Frascchetti, F. Lena, W. Perconti, E. Piervitali

Day 3 | Friday 24 November 2023

Fri
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Nov

08:45 – 09:00 (CET) - Registration of participants

Fri
24
Nov

09:00 – 10:30 (CET)
S5.1 – Support adaptation at local scale
Chair: Silvia TORRESAN, CMCC, Venice, Italy

Room
Biagi

- 09:00-09:10 Introduction
- 09:10-09:30 **Co-creating climate change adaptation strategies and measures at different levels: examples from South Tyrol**
Fabio CARNELLI, Eurac Research, Bolzano, Italy
Author(s): F. Carnelli, L. Pedoth, S. Cocuccioni, M. Zebisch
- 09:30-09:50 **A Digital AGORA and Academies to enhance citizen engagement, improve access to and use of climate data supporting adaptation**
Marianna ADINOLFI, CMCC, Caserta, Italy
Author(s): M. Adinolfi, A. Reder, P. Mercogliano, A. Acierno, M. Buonocore, S. Santin, R. Witton, S. Bharwani, A. Hoy, O. Swainston, B. Lowry, M. Milelli
- 09:50-10:10 **A GIS-based framework to support decision makers for climate-adaptive design strategies in multi-risk scenarios**
Maria Fabrizia CLEMENTE, University of Naples Federico II, Naples, Italy
Author(s): M.F. Clemente, V. D'Ambrosio, F. Di Martino, M. Losasso, E. Tersigni
- 10:10-10:30 **Promoting the understanding of climate change hazards through citizen science EU projects I-CHANGE and AGORA**
Massimo MILELLI, CIMA, Savona, Italy
Author(s): M. Milelli, L. Polo, F. Munerol, A. Parodi, P. Mercogliano, M. Adinolfi

Fri
24
Nov

09:00 – 11:10 (CET)
S5.2 – Climate modelling and impact
Chair: **(tbc)**

Room
Solesin

- 09:00-09:10 Introduction
- 09:10-09:30 **A novel tool for impact studies over the Mediterranean region: Results from dynamical downscaling with the ENEA-REG 2.0 ESM**
Gianmaria SANNINO, ENEA, Roma, Italy
Author(s): A. Anav, M. Antonelli, S. Calmanti, A. Carillo, F. Catalano, A. Dell'Aquila, R. Iacono, S. Marullo, E. Napolitano, M. Palma, G. Pisacane, G. Sannino, M.V. Struglia
- 09:30-09:50 **Implementation of the BEP+BEM Offline Parameterization scheme**
Gianluca PAPPACCOGLI, University of Salento, Lecce, Italy
Author(s): G. Pappaccogli, A. Zonato, A. Martilli, R. Buccolieri, P. Lionello
- 09:50-10:10 **Can we use generative Deep Learning to increase availability of high resolution climate scenarios? An experiment in downscaling meteorological variables from ERA5 to COSMO-CLM dynamical reanalyses over Italy**
Elena TOMASI, Fondazione Bruno Kessler, Trento, Italy
Author(s): E. Tomasi, G. Franch, M. Cristoforetti

- 10:10-10:30 **Towards reliable prediction of PM10 through neural network modelling in the Arctic for adaptation purposes**
Antonello PASINI, CNR-IIA, Rome, Italy
Author(s): A. Pasini, A. Cuzzucoli, L. Selmi, I. Crotti, P. Fazzini, M. Montuori, S. Dobricic
- 10:30-10:50 **Climate series processing for a stochastic procedure to generate onshore wind power future scenarios in Italy**
Arianna TREVISIOL, RSE S.p.A., Milan, Italy
Author(s): A. Trevisiol, G. Ceresa, R. Bonanno

Fri
24
Nov

09:00 – 10:10 (CET)
S5.3 – Risk management of drought
Chair: Massimiliano Pittore, Eurac Research, Bolzano, Italy

- 09:00-09:10 Introduction
- 09:10-09:30 **Extreme drought spells in Northwestern Italy: A climate assessment and the development of blended drought index**
Christian RONCHI, Arpa Piemonte, Turin, Italy
Author(s): C. Ronchi, S. Barbarino, S. Barbero, E. Brussolo, M. Graziadei, A. Salandin
- 09:30-09:50 **Leveraging climate data at different spatial scales via machine learning to improve sub-seasonal drought predictions**
Matteo GIULIANI, Politecnico di Milano, Milano, Italy
Author(s): M. Giuliani, C. Bertini, F. Bosso, D. Solomatine, S.J. van Andel
- 09:50-10:10 **Co-designing a climate risk service for drought risk management in Austria**
Alberto FRESOLONE, IIASA, Laxenburg, Austria
Author(s): A. Fresolone, T. Schinko, T. Thaler

Fri
24
Nov

10:10/10:30/10:50 – 11:00 (CET) – Break

Room 1

Fri
24
Nov

11:00 – 12:30 (CET)
S6.1 – Assessing and adapting to coastal and urban flooding risks
Chair: (tbc)

Room Biagi

- 11:00-11:10 Introduction
- 11:10-11:30 **Flood risk assessment of indirect impacts across different economic sectors**
Marcello AROSIO, IUSS, Pavia, Italy
Author(s): M. Arosio, L. Cesarini, J. Di Noia, A. Caiani, M. Martina
- 11:30-11:50 **Adapting cities to climate changes with SuDS: A case study in Northern Italy**
Roberta D'AMBROSIO, University of Salerno, Fisciano, Italy
Author(s): R. D'Ambrosio, A. Longobardi
- 11:50-12:10 **Flooding risk in some Italian coastal areas under different sea level rise scenarios**
Gianmaria SANNINO, ENEA, Roma, Italy
Author(s): A. Anav, S. Cappucci, A. Carillo, . Dell'Aquila, R. Iacono, L. Moretti, E. Napolitano, M. Palma, G. Pisacane, G. Righini, G. Sannino, M.V. Strugli
- 12:10-12:30 **Coastal adaptation to sea level rise from a governance perspective, first results of the assessment report of the knowledge-hub on sea level rise**
Giulia GALLUCCIO, CMCC, Milano, Italy
Author(s): G. Galluccio, E. Fiorini Beckhauser, R. Biancardi Aleu, M.F. Casas, O. Espin, E. Sini, F. Biddau, R. David, A. Bisaro

Fri 24 Nov	11:00 – 12:30 (CET) S6.2 – Climate-responsive water management and infrastructure Chair: (tbc)	Room Solesin
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- 11:00-11:10 Introduction
- 11:10-11:30 **Rainwater harvesting potential for urban water management: The case of Turin**
Ilaria BUTERA, Politecnico di Torino, Turin, Italy
 Author(s): M. Carollo, I. Butera
- 11:30-11:50 **From weather forcing to economic losses: An integrated climate service for long term projections on water availability**
Elisa DELPIAZZO, CMCC, Venice, Italy
 Author(s): E. Delpiazzo, G. Rianna, R. Padulano, A. Reder, F. Bosello
- 11:50-12:10 **A methodology for developing climate change adaptation plans for integrated water services within the framework of the UE Taxonomy**
Elisa BRUSSOLO, Società Metropolitana Acque Torino S.p.A., Turin, Italy
 Author(s): E. Brussolo, R. Cremonini, S. Steffenino
- 12:10-12:30 **Updating thermal load in Eurocodes in a climate change perspective using new gridded climate data and statistical approaches: The Italian case study**
Alfredo REDER, CMCC, Caserta, Italy
 Author(s): G. Rianna, A. Reder, M.L. Sousa, S. Dimova

Fri 24 Nov	11:00 – 12:30 (CET) S6.3 – Mitigation and adaptation strategies for socio-economic sectors Chair: Aurora NURCE, FLA, Milan Italy	Room 4
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- 11:00-11:10 Introduction
- 11:10-11:30 **Leveraging bancassurance to reduce the climate protection gap, comply with regulatory and supervisory expectations and expand commercial offers: new horizon for banks and insurance companies**
Giovanni CAMPANA and **Lorenzo CAMPANA**, ClimateCharted SRL, Rimini, Italy
 Author(s): G. Campana, L. Campana
- 11:30-11:50 **Enhancing climate resilience in the real estate sector: Development of a rating system for assessing the performances of buildings**
Piero PELLIZZARO, State Property Agency, Rome, Italy
 Author(s): P. Pelizzaro, G. Capri, D. Giallonardo, S. Domini, C. Scaramella, C. Apreda, G. Barbato, G. Giugliano, F. Marinucci, P. Mercogliano, A. Pugliese, G. Ricciardi
- 11:50-12:10 **Preliminary steps in co-design for climate change adaptation and mitigation tools in the tourism sector: a case study in the NEVERMORE project**
Sara STEMBERGER, Fondazione Bruno Kessler, Trento, Italy
 Author(s): S. Stemberger, D. Viesi, A. Bertò, M.S. Barbera, A. Ronchini, A. Torresani, C. Leonardi, P. Massa, A. Torre, E. Mencarini
- 12:10-12:30 **CLimate INTelligence: Extreme events detection, attribution and adaptation design using machine learning**
Andrea CASTELLETTI, Politecnico di Milano, Milan, Italy
 Author(s): A. Castelletti and the CLINT consortium

Fri 24 Nov	12:30 – 13:15 (CET) – Closing session and award ceremony	Room Biagi
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List of Participants

- Arianna **Acierno**, CMCC, Lecce LE, Italy
- Fiorella **Acquaotta**, University of Turin, Turin TO, Italy
- Marianna **Adinolfi**, CMCC, Caserta CE, Italy
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- Emmanuele **Arato**, Politecnico di Torino, Turin TO, Italy
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- Marcello **Arosio**, Scuola Universitaria Superiore IUSS Pavia, Pavia PV, Italy
- Guido **Ascenso**, Politecnico di Milano, Gargnano BS, Italy
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- Antonio **Ballarin Denti**, FLA, Milan MI, Italy
- Roberto **Barbiero**, Agenzia Provinciale per la Protezione dell'Ambiente - APPA, Trento TN, Italy
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- Lorenzo **Campana**, ClimateCharted, Milan MI, Italy
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- Claudio **Cassardo**, University of Torino, Turin TO, Italy
- Giulia **Castellazzi**, LAND Italia, Milano MI, Italy
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- Leone **Cavicchia**, CMCC, Bologna BO, Italy
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- Fabiana **Cristofolini**, Fondazione Edmund Mach - Research and Innovation Centre, San Michele all'Adige TN, Italy
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-

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