

# SISC2025

Salerno, 22-24 October 2025

## INNOVATION IN CLIMATE RESEARCH FOR SOCIETAL TRANSFORMATION

13<sup>th</sup> Annual Conference of the Italian Society for Climate Sciences

Photo: Massimo Pica

## PROGRAMME OVERVIEW

| Tue 21 Oct 2025                                    | Wed 22 Oct 2025                                                                                                                          | Thu 23 Oct 2025                                                                                                                                              | Fri 24 Oct 2025                                                                                                           | Sat 25 Oct 2025                                    |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
|                                                    |                                                                                                                                          | 7:00-8:00<br>SIDE EVENT<br>5K at dawn on Salerno seafont                                                                                                     |                                                                                                                           |                                                    |
|                                                    |                                                                                                                                          | 8:30-9:00 - Registrations                                                                                                                                    | 8:45-9:00 - Registrations                                                                                                 |                                                    |
|                                                    | 10:00-11:00 - Registrations                                                                                                              | 9:00-10:45 - Tavola rotonda<br>Il valore strategico del PNRR per la ricerca sul cambiamento climatico in Italia ed in Europa                                 | 9:00-10:45 - Parallel session 4<br>• Impacts, Responses, and Policies<br>• Climate Hazard and Risk Assessment for Society |                                                    |
|                                                    | 11:00-11:30 - Welcome and opening address                                                                                                | 10:45-11:15 - Coffee break                                                                                                                                   | 10:45-11:15 - Coffee break                                                                                                |                                                    |
|                                                    | 11:30-12:30 - Andrea Rinaldo's Talk                                                                                                      | 11:15-13:00 - Parallel session 2<br>• Heatwaves: Impacts and Responses<br>• Governing and Analysing Decarbonization: Policies, Ecosystems and Climate        | 11:15-12:00 - Claudia Pasquero's Talk                                                                                     | 10:00-12:30<br>SIDE EVENT<br>Clima e Scuola*       |
|                                                    | 12:30-13:00 - Moving to the first floor                                                                                                  |                                                                                                                                                              | 12:00-13:00 - Poster session 3                                                                                            |                                                    |
|                                                    | 13:00-14:00 - Lunch                                                                                                                      | 13:00-14:00 - Lunch                                                                                                                                          | 13:00-14:00 - Lunch                                                                                                       |                                                    |
|                                                    | 14:00-15:00 - Poster session 1                                                                                                           | 14:00-15:00 - Poster session 2                                                                                                                               | 14:00-15:45 - Parallel session 5<br>• Tools for Climate Adaptation<br>• Strategies and Policies for Resilience            |                                                    |
|                                                    | 15:00-15:30 - Tea break                                                                                                                  | 15:00-15:30 - Tea break                                                                                                                                      | 15:45-16:15 - Closing session and award ceremony                                                                          |                                                    |
|                                                    | 15:30-17:15 - Parallel session 1<br>• High-Resolution Climate Information: Methods and Uses<br>• Tools and Strategies for Climate Action | 15:30-17:15 - Parallel session 3<br>• Governing Climate Resilience<br>• Advanced Modelling and Forecasting Approaches for Climate and Earth System Processes | 16:15-16:45 - Tea break (TBC)                                                                                             |                                                    |
| 18:00-19:00<br>SIDE EVENT<br>Clima da Leggere (1)* | 18:00-19:00<br>SIDE EVENT<br>Clima da Leggere (2)*                                                                                       |                                                                                                                                                              | 18:00-19:00<br>SIDE EVENT<br>Clima da Leggere (3)*                                                                        | 18:00-19:00<br>SIDE EVENT<br>Clima da Leggere (4)* |
|                                                    | 20:00 - Social Dinner                                                                                                                    | 17:45-18:45 - SISC General Assembly of Members<br>19:15 - Aperitif                                                                                           |                                                                                                                           |                                                    |

(\*) In Italian – open to general public. Further info at: SIDE EVENT PAGE: <https://www.sisclima.it/conferenza-annuale-2025/side-events/>

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## Preliminary Programme

(Last update: 7 August 2025)

The Scientific Conference will be held from Wednesday 22 October to Friday 24 October 2025. Several SIDE EVENTS have been organized open also to the general public: a series of opportunities for reflection on the changing climate, fostering ongoing dialogue between current scientific knowledge, the public, policymakers, and younger generations. Because the side events are open to the citizenship they will be held in Italian.

## Day -1 | Tuesday 21 October 2025

Tue  
**21**  
Oct

SIDE EVENT (in Italian)  
18:00 – 19:00 (CEST) - Clima da leggere

Pinacoteca di Salerno

CLIMA DA LEGGERE - Presentazione del volume:

**La sfida climatica. Dalla scienza alla politica: ragioni per il cambiamento**

**Autore:** Antonello Pasini – Fisico del clima, primo ricercatore CNR-IIA e divulgatore

**Moderatore:** Mariano Ragusa – Giornalista de “Il Mattino”

**Abstract:** La crisi climatica è un problema complesso e globale, che ci sfida in diversi modi. È una sfida scientifica e conoscitiva, perché richiede nuovi metodi per studiarla e una solida conoscenza dei processi in gioco su cui basare le nostre azioni, ma anche una sfida per la nostra visione del mondo, per il mondo della comunicazione e della politica. Da uno dei più autorevoli scienziati del clima italiani, il libro-manifesto che traccia il percorso per un cambiamento radicale del nostro modo di pensare e interagire con il mondo.

 Pinacoteca di Salerno, Via Mercanti 63, Salerno

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza. Si chiede gentilmente di confermare la presenza compilando il modulo di iscrizione al singolo evento.

Maggiori informazioni: <https://www.sisclima.it/conferenza-annuale-2025/side-event-clima-da-leggere/>

## Day 1 | Wednesday 22 October 2025

Wed  
**22**  
Oct

10:00 – 11:00 (CEST) - Registration of participants  
Pick your badge!

Palazzo di Città  
Teatro Augusteo Hall

Wed  
**22**  
Oct

11:00 – 11:30 (CEST) - Conference opening and welcome

Palazzo di Città  
Teatro Augusteo

**Paola MERCOGLIANO**, SISC President and Fondazione CMCC

**Vincenzo NAPOLI**, Sindaco Salerno (TBC)

**Massimiliano NATELLA**, Assessore Politiche Ambientali del Comune di Salerno (TBC)

**Fulvio BONAVITACOLA**, Assessore Ambiente della Regione Campania (TBC)

**Arturo IANELLI**, Presidente della Commissione Ambiente del Comune di Salerno

Wed  
**22**  
Oct

11: 30– 12:30 (CEST) – ANDREA RINALDO's Talk  
**Water science on the move: Metastatistics, limits, retooling, invisible structures**  
Chair: Monia Santini, Fondazione CMCC, Viterbo, Italy

Palazzo di Città  
Teatro Augusteo

## Abstract Andrea Rinaldo Talk

*Professor Andrea Rinaldo, engineer and hydrologist, holds a Degree in Hydraulic Engineering from the University of Padua (IT) where he graduated with the highest honours in 1978. In 1983, he obtained his PhD (Fluid Mechanics) at Purdue University (US). In 2014, he was awarded a PhD Honoris Causa by the Université du Québec-Laval & INRS (CA) and in 2024 the University of Trento (IT) awarded him the Degree Honoris Causa in Environmental Engineering.*

*In 1986 he became Full Professor of Hydraulic Constructions at the University of Trento (IT). From 1992 to 2002, he worked as research fellow and visiting Professor at the Massachusetts Institute of Technology, Cambridge, in the Department of Civil and Environmental Engineering; from 2004 to 2006, he was a visiting professor at Princeton University. In 2008, he also became Professor and Director at the Laboratory of Ecohydrology at the Federal Polytechnic School of Lausanne (EPFL) in Switzerland.*

*On March 22, 2023, the Royal Swedish Academy awarded him the Stockholm Water Prize (commonly known as the Nobel Prize for Water), given to "a Swedish or foreign person for his or her outstanding contribution to the protection of the environment in the broadest sense or for having written illuminatingly on this subject." Prof. Rinaldo is the first Italian who has received this prestigious award.*

*Since August 2024, Prof. Rinaldo is also the President of the "Istituto Veneto di Scienze Lettere ed Arti", in Venice. He joined the CMCC Foundation in March 2025 as a Senior Fellow at the ICR Institute of Climate Resilience*

Wed  
**22**  
Oct

12:30 – 13:00 (CEST) – Moving to the first floor

Wed  
**22**  
Oct

13:00 – 14:00 (CEST) – Lunch

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Wed  
**22**  
Oct

14: 00 – 15:00 (CEST)  
**POSTER SESSION 1**

Palazzo di Città  
Hallway  
(1<sup>st</sup> floor)

*Posters list will be included in the final programme. It will be available in mid September.*

*The whole poster list is available in the annex 1*

Wed  
**22**  
Oct

15:00 – 15:30 (CEST) – Tea break

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Wed  
**22**  
Oct

15:30 – 17:15 (CEST)

### **S1.1 – High-Resolution Climate Information: Methods and Uses**

Chair: Sandro Fiore, Università di Trento, Trento, Italy

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

#### **Assessing the role of large scale forcings as predictors for generating high-resolution atmospheric fields using a conditional generative adversarial neural network for downscaling**

*Ilenia MANCO*, Fondazione CMCC, Caserta, Italy

Author(s): Ilenia Manco, Mario Raffa, Paola Mercogliano, Antonio Navarra

#### **Km-scale modeling of the Northern Adriatic region**

*Marco REALE*, National Institute of Oceanography and Applied Geophysics-OGS, Trieste, Italy

Author(s): M. Reale, G. Giuliani, F. Giordano, M. Garcia-Valdecasas Ojeda, L. Vargas-Heinz, E. Coppola, S. Querin, C. Solidoro, S. Salon

#### **Analysis of Climate Trends in Italy Using High-Resolution Downscaled CMIP6 Models: Assessment of Climate Changes and Extremes for the Period 1985-2100**

*Giacomo Davide PAGLIARO*, Agenzia ItaliaMeteo, Bologna, Italy

Author(s): Giacomo Davide Pagliaro, Deniel Pavone, Francesca Vittorioso, Giusy Fedele, Giuseppe Giugliano, Alfredo Reder, Paola Mercogliano

#### **AI for high-resolution climate data: a deep learning Latent Diffusion Model to downscale climate projections**

*Elena TOMASI*, Fondazione Bruno Kessler, Trento, Italy

Author(s): Elena Tomasi, Gabriele Franch, Sandro Calmanti, Marco Cristoforetti

#### **Toward High-Resolution Climate Projections: A Fast and Scalable Deep Learning Approach to Snow Depth**

*Alessandro DAMIANI*, National Institute for Environmental Studies, Tsukuba, Japan

Author(s): Alessandro Damiani, Noriko N. Ishizaki, Sarah Feron, Raul R. Cordero

#### **Enhancing Early-Warning Systems for Climate Extremes in Developing Countries Using Machine Learning Models and High-Resolution Datasets**

*Afshin SHAFEI*, Università di Roma La Sapienza, Rome, Italy

Author(s): Afshin Shafei, Francesco Cioffi

Wed  
**22**  
Oct

15:30 – 17:15 (CEST)

### **S1.2 – Tools and Strategies for Climate Action**

Chair: Chiara Cagnazzo, ECMWF, Bonn (Germany)

Palazzo di Città  
Sala della Giunta  
(1<sup>st</sup> floor)

#### **GLORI4DE: Global to regional ICON for Destination Earth**

*Massimo GISONNI*, CINECA, Bologna, Italy

Author(s): Massimo Gisonni, Gabriella Scipione, Fabio Di Sante, Gian Franco Marras, Angelo Campanale, Gabriella Ceci, Mario Raffa, Alfonso Ferrone, Chiara Marsigli, Virginia Poli, Thomas Gastaldo, Roland Potthast, Michael Krayner, Thorsten Steinert, Xu Xu, Thomas Geenen, Emanuele Danovaro

#### **Critical considerations for extending potential climate and environmental benefits of regenerative agriculture while avoiding 'greenwashing'**

*Peter MCKEOWN*, University of Galway, Galway, Ireland

Author(s): Emily Rehberger, Noel Ndlovu, Mukund Naryan, Angela Maina, Clesthia Noknale, Paul C. West, Charles Spillane, Peter C. McKeown

#### **Power Play: Balancing Efficiency and Protection in Fixed versus Variable Electricity Pricing**

*Cristina CATTANEO*, Fondazione CMCC, Milan, Italy

Author(s): Jacopo Bonan, Cristina Cattaneo, Giovanna d'Adda, Jacopo Lunghi, Massimo Tavoni

#### **Prov4WFs: a toolbox for tracking provenance in workflow management systems**

*Ludovica SACCO*, University of Trento, Trento, Italy

Author(s): Ludovica Sacco, Carolina Sopranzetti, Sandro Luigi Fiore

#### **Fondazione Cariplo's commitment on local climate transition strategies**

*Federico BEFFA*, Fondazione Cariplo, Milan, Italy

Author(s): Federico Beffa, Paolo Siccardi

#### **High resolution analysis of SUHI dynamics in Milan under different climate conditions using ECOSTRESS data**

*Antonio ESPOSITO*, University of Salento, Lecce, Italy

Author(s): Antonio Esposito, Gianluca Pappacogli, Piero Lionello, and Riccardo Buccolieri

Wed  
**22**  
Oct

SIDE EVENT (in Italian)  
18:00 – 19:00 (CEST) - Clima da leggere

Museo Diocesano "San Matteo"

CLIMA DA LEGGERE - Presentazione del volume:

**La giostra del tempo senza tempo. I cambiamenti climatici e il patto tra le generazioni**

**Autore:** Carlo Cacciamani, direttore dell'Agenzia ItaliaMeteo, climatologo ed esperto di comunicazione scientifica

**Moderatore:** Cinzia Ugatti - giornalista professionista e attrice

**Abstract:** I cambiamenti climatici, già evidenti e in accelerazione, hanno impatti significativi su ecosistemi, salute, attività produttive e biodiversità. L'aumento delle temperature continuerà se non verranno ridotte drasticamente le emissioni di gas serra. Senza interventi, nei prossimi decenni gli effetti saranno sempre più gravi, rendendo il futuro delle nuove generazioni in un mondo meno ospitale.

📍 Museo Diocesano "San Matteo", Largo Plebiscito 12, Salerno

L'evento è **GRATUITO** e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza. Si chiede gentilmente di confermare la presenza compilando il modulo di iscrizione al singolo evento.

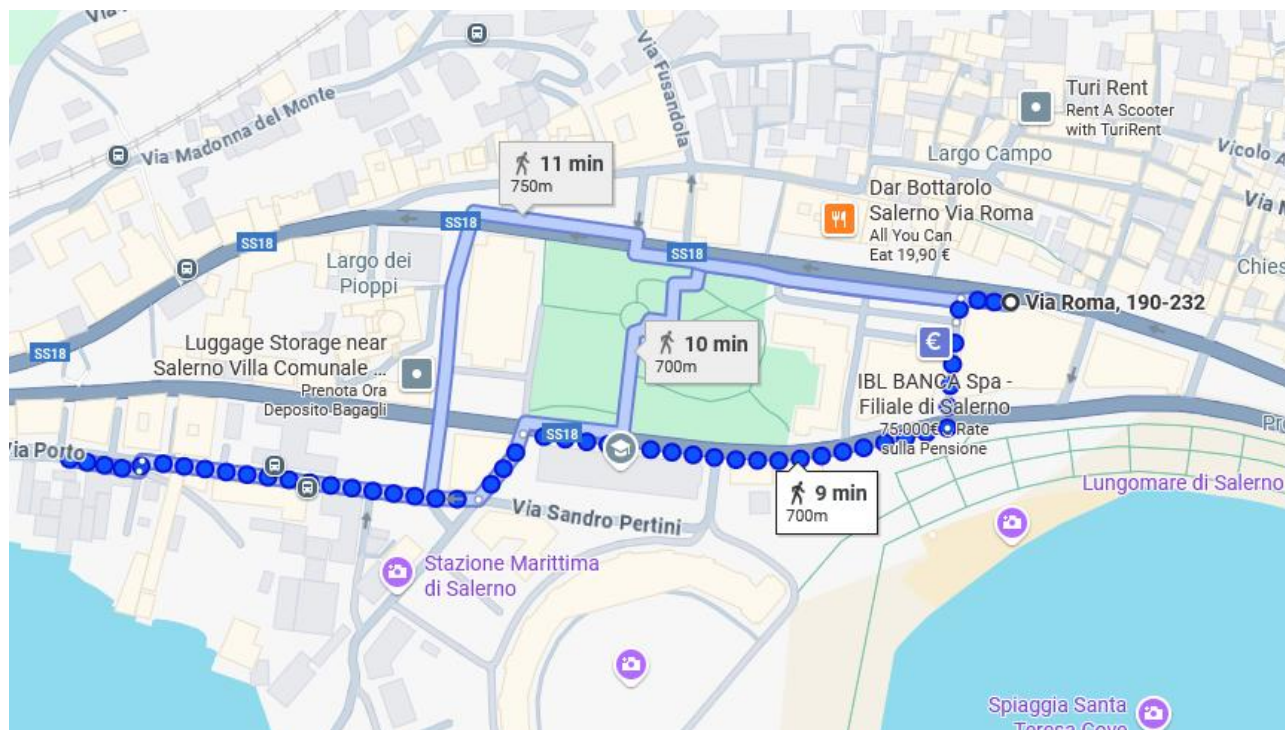
Maggiori informazioni: <https://www.sisclima.it/conferenza-annuale-2025/side-event-clima-da-leggere/>

Wed  
**22**  
Oct

20:00 – Social dinner

The Social dinner will be held at:

📍 Circolo Canottieri Irno, Via Porto 41, Salerno SA



## Day 2 | Thursday 23 October 2025

Thu  
**23**  
Oct

SIDE EVENT  
07:00 – 08:00 (CEST) - 5k at dawn on Salerno seafront

*A non-competitive walk/run on Salerno seafront.  
Further info will follow.*

Thu  
**23**  
Oct

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

Palazzo di Città  
Hallway  
(1<sup>st</sup> floor)

Thu  
**23**  
Oct

09:00 – 10:45 (CEST) - In Italian  
**TAVOLA ROTONDA - Il valore strategico del PNRR per la ricerca sul cambiamento climatico in Italia ed in Europa**  
Chair: Maria Cristina Facchini, CNR ISAC, Bologna, Italy

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)  
& streaming

*Grazie a specifiche progettualità, il PNRR si è rivelato un volano per l'avanzamento della ricerca sul cambiamento climatico in Italia e in Europa. Questa tavola rotonda riunirà alcuni dei principali progetti finanziati, che hanno incluso le scienze del clima tra le loro attività, per condividere come tali fondi abbiano favorito innovazione scientifica e tecnologica. Attraverso un confronto aperto, saranno messi in luce punti di forza, criticità e prospettive future, delineando il valore strategico di questi investimenti e il loro impatto sulla società.*

Intervengono:

- Centro Nazionale per la Biodiversità (NBFC) – Maria Chiara Pastore, Politecnico di Milano, Milano, Italy
- Centro Nazionale HPC, Big Data e Quantum Computing (ICSC) – Silvio Gualdi, Fondazione CMCC, Bologna, Italy
- Partenariato Esteso RETURN – Andrea Prota e Mario Losasso, Università Federico II Napoli, Napoli, Italy

Thu  
**23**  
Oct

10:45 – 11:15 (CEST) – Coffee break

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Thu  
**23**  
Oct

11:15 – 13:00 (CEST) – Parallel session 2  
**S2.1 Heatwaves: Impacts and Responses**  
Chair: **TBC**

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

### Population and land-use exposure to future unprecedented climate extremes over Southern Europe

Jonathan SPINONI, Politecnico di Milano, Milan, Italy

Author(s): Jonathan Spinoni, Marta Mastropietro, Carlos Rodriguez-Pardo, Carmelo Cammalleri, Alessandro Dosio, Massimo Tavoni

### A novel unsupervised framework for urban heat islands detection: an application on the city of Naples (Italy)

Rosa CAFARO, Università Federico II Napoli, Napoli, Italy

Author(s): Rosa Cafaro, Barbara Cardone, Valeria D'Ambrosio, Ferdinando Di Martino, Vittorio Miraglia

### The Italian heat health adaptation plan and temporal changes in heatwave-related mortality impacts

Francesca DE' DONATO, Dipartimento di epidemiologia ASL Roma 1, SSR Lazio, Roma, Italy

Author(s): de' Donato F., Di Blasi C., De Sario M., Orrù D., Rossi P., Paola Michelozzi

### A Climate Risk Assessment Framework for Heatwave Impacts on Airport Operations in Europe

Alessandro MOSER, AMIGO SRL, Rome, Italy

Author(s): Alessandro Moser, Sara Dal Gesso, Marco Venturini, Carlo Abate, Aurora De Bortoli Vizioli

### Changes in large-scale circulation behind the increase in extreme heat events in the Apennines (Italy)

Vincenzo CAPOZZI, Parthenope University of Naples, Napoli, Italy

Author(s): Vincenzo Capozzi, Annalisa Di Bernardino, Giorgio Budillon

### Integrating urban morphology and meteorological data to assess thermal comfort in cities: the cases of Turin and Naples

Massimo MILELLI, CIMA Foundation, Savona, Italy

Author(s): Andrea Zonato, Luca Monaco, Massimo Milelli

Thu  
**23**  
Oct

11:15 – 13:00 (CEST) – Parallel session 2

**S2.2 Governing and Analysing Decarbonization: Policies, Ecosystems and Climate**

Chair: **TBC**

Palazzo di Città  
Sala della Giunta  
(1<sup>st</sup> floor)

### Reduction in CO<sub>2</sub> emissions from energy use of residential buildings: cost estimate and policy design

Riccardo CAMBONI, University of Padua, Padova, Italy

Author(s): Alberto Corsini, Riccardo Camboni, Raffaele Miniaci, Paola Valbonesi

### Industrial policies implication in the European decarbonization trajectory

Alice DI BELLA, Politecnico di Milano, Milan, Italy

Author(s): Alice Di Bella, Toni Seibold, Tom Brown, Massimo Tavoni

### The Long-Term Impact of Forest Fires on Carbon Sequestration in Europe

Osman Hakan CAN, University of Barcelona, Barcelona, Spain

Author(s): Osman Hakan Can, François Cohen, Paola Ovando Pol

### Land suitability and the carbon cycle: a tool for the Apulia region

Gabriele PIZZILEO, Fondazione CMCC, Lecce, Italy

Author(s): Gabriele Pizzileo, Simone Beltramino, Alessandra Nuzzo, Valentina Scardigno, Gabriele Tramonte, Sergio noce, Maria Vincenza Chiriaco

### Geospatial big data analytics to decarbonize industry: a CCUS case study

Sara GIAROLA, Politecnico di Milano, Milan, Italy

Author(s): Sara Giarola, Marialuisa Volta, Elena Verdolini

### A Granger causality analysis between Milanković cycles, temperature and CO<sub>2</sub> concentration over the last 800 kyr

Antonello PASINI, CNR, Rome, Italy

Author(s): Antonello Pasini, Umberto Triacca

Thu  
**23**  
Oct

13:00 – 13:50 (CEST) – Lunch

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Thu  
**23**  
Oct

13:50 – 14:00 (CEST) – **Group Photo**  
Be ready with your best smile for the group photo!

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

Thu  
**23**  
Oct

14:00 – 15:00 (CEST)  
**Poster session 2**

Palazzo di Città  
Hallway  
(1<sup>st</sup> floor)

*Posters list will be included in the final programme. It will be available in mid September.*

*The whole poster list is available in the annex 1*

Thu  
**23**  
Oct

15:00 – 15:30 (CEST) – Coffee break

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Thu  
**23**  
Oct

15:30 – 17:15 (CEST) – Parallel session 3

## **S3.1 – Governing for Climate Resilience**

Chair: Elisa Brussolo, Società Metropolitana Acque Torino S.p.A., Turin, Italy

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

### **BePrepARed: implementing Governance through Strategy and Action Plan for Climate Change with Nature-Based Solutions (NBS)**

*Antonino Libro*, Emilia-Romagna Region Agency for Reconstructions, Bologna, Italy

Author(s): Enrico Cocchi, Antonino Libro, Barbara Parma, Antonio Curatolo, Stefano Marani, Romeo Farinella Elena Dorato, Alberto Grando, Alessandra Marin, Richard Lee Peragine Dimitra Rapti

### **The Reality of Positive Tipping Points amid the Climate Change Crisis**

*Ivan KANCEV*, University of Ljubljana, Ljubljana, Slovenia

Author(s): Ivan Kanchev

### **Updated Fire Danger Projections over Italy**

*Paola FAGGIAN*, RSE S.p.A., Milan, Italy

Author(s): Arianna Trevisiol, Paola Faggian

### **Climate change adaptation enablers: An assessment of socio-economic, institutional and environmental drivers behind the definition of adaptation policies inside the Covenant of Mayors framework**

*Filippo FRASCHINI*, CIMA Foundation, Savona, Italy

Author(s): Andrea Pronti, Filippo Frascini, Roberto Zoboli

### **Downscaled climate projections over Emilia-Romagna Region (Northern Italy): Supporting Sustainable Energy and Climate Action Plan and adaptation policies in TRANSCEND project**

*Rodica TOMOZEIU*, Arpae-Simc, Emilia-Romagna, Bologna, Italy

Author(s): Rodica Tomozeiu, Cinzia Alessandrini, Alice Vecchi

### **Climate Risk and Provisioning Ecosystem Services: An Explorative Hybrid Model of Adaptive Behaviour in Clam Harvesting**

*Federico CORNACCHIA*, Ca' Foscari University of Venice, Fondazione Eni Enrico Mattei, Venice, Italy

Author(s): Federico Cornacchia, Sebastian Raimondo, Carlo Giupponi, Camilla Bertolini, Roberto Pastres

Thu  
**23**  
Oct

15:30 – 17:15 (CEST) – Parallel session 3

## **S3.2 – Advanced Modelling and Forecasting Approaches for Climate and Earth System Processes**

Chair: Piero LIONELLO, University of Salento, Lecce, Italy

Palazzo di Città  
Sala della Giunta  
(1<sup>st</sup> floor)

### **GLOBONE - Development of the CNR coupled climate model for subseasonal, seasonal and decadal prediction**

*Federico FABIANO*, CNR-ISAC, Bologna, Italy

Author(s): Federico Fabiano, Alessio Bellucci, Paolo Davini, Guido Davoli, Valerio Lembo, Daniele Mastrangelo, Andrea Storto, Vincenzo De Toma, Chunxue Yang, Federico Serva

### **Toward an improved representation of the Mediterranean Sea dynamics: sensitivity tests on high-resolution atmospheric forcing**

*Federica BORILE*, University of Bologna, Bologna, Italy

Author(s): Federica Borile, Francesco Maicu, Mahmud Hasan Ghani, Mario Raffa, Angelo Campanale, Paola Mercogliano, Nadia Pinardi, Lucia Gualtieri, Pietro Miraglio and Emanuela Clementi

### **Unravelling drivers of future Mediterranean precipitation paradox**

*Marco CHERICONI*, IUSS Pavia, Pavia, Italy

Author(s): Marco Chericoni, Giorgia Fosser, Alessandro Anav, Marco Gaetani, Emmanouil Flaounas

### **Challenges in Simulating Sea Ice: Is the Resolution Effort Paying Off?**

*Doroteaciro IOVINO*, Fondazione CMCC, Bologna, Italy

Author(s): Doroteaciro Iovino, Francesco Cocetta

### **Mediterranean extreme precipitation events in storm-resolving NextGEMS Earth System Models**

*Paolo LANTERI*, University of Trento, Trento, Italy

Author(s): Paolo Lanteri, Simona Bordoni

### **Assessment of the Urbanized ICON-CLM Atmospheric Model for the Bologna Case Study**

*Angelo CAMPANALE*, Fondazione CMCC, Caserta, Italy

Author(s): Angelo Campanale, Marianna Adinolfi, Mario Raffa, Jan-Peter Schulz, Paola Mercogliano

Thu  
**23**  
Oct

17:45 – 18:45 (CEST)  
**SISC General Assembly of Members**

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

Thu  
**23**  
Oct

19:15 (CEST) – Aperitif

Further info will be available soon.

## Day 3 | Friday 24 October 2025

Fri  
**24**  
Oct

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

Palazzo di Città  
Hallway  
(1<sup>st</sup> floor)

Fri  
**24**  
Oct

09:00 – 10:45 (CEST) – Parallel session 4  
**S4.1 – Impacts, Responses, and Policies**  
Chair: Antonio Trabucco, Fondazione CMCC, Sassari, Italy

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

### **Changes in Precipitation Distribution Probability in Lombardy in Climate Change Scenarios and its use for climate proofing of infrastructure**

*Mauro MUSSIN*, ARPA Lombardia, Milan, Italy

Author(s): Mauro Mussin, Silvia Vaghi, Alessandro Dacomo

### **Drought-induced TREE MOrtalities and REwilding in Apulia (TREMORE)**

*Roberto INGROSSO*, CNR, Lecce, Italy

Author(s): Roberto Ingrosso, Mara Baudena, Francesco Cozzoli, Valerio Lembo, Piero Lionello, Enrica Nestola, Francesco Salvatore Rocco Pausata, Gregorio Sgrigna, Shivangi Tiwari, Roberta D'Agostino

### **Simulating the urban thermo-hygrometric environment: bridging mesoscale and microscale dynamics with MLUCM BEP+BEM – Bari case study (Italy)**

*Gianluca PAPPACCOGLI*, University of Salento, Lecce, Italy

Author(s): Gianluca Pappaccogli, Andrea Zonato, Alberto Martilli, Riccardo Buccolieri, Piero Lionello

### **CLiNE: A novel portal of north-eastern Italy climate framework for the assessment of current and future climate-related impacts**

*Valentina GALLINA*, ARPAV FVG, Teolo (PD), Italy

Author(s): Giovanni Massaro, Valentina Gallina, Fabio Zecchini, Andrea Cicogna, Enrica De Cian, Francesco Bosello, Giacomo Falchetta, Francesco Bartoli, Ricardo Garcia Silva, Marco Montanari, Francesco Rech, Arturo Pucillo, Stefano Micheletti

### **Recreational and cultural value of EU forests under alternative management options**

*Fabio EBOLI*, ENEA, Rome, Italy

Author(s): Fabio Eboli, Melania Michetti

### **Potential effects of climate change on the provision of ecosystem services of the Rižana River**

*Liliana VIŽINTIN*, Science and Research Centre Koper, Koper, Slovenia

Author(s): Liliana Vižintin, Suzana Škof

Fri  
**24**  
Oct

09:00 – 11:10 (CEST)  
**S4.2 – Climate Hazard and Risk Assessment for Society**  
Chair: **TBC**

Palazzo di Città  
Sala della Giunta  
(1<sup>st</sup> floor)

## A Framework for Mapping Global Climate Multi-Hazard Risks under Future Climate Scenarios

Jacopo FURLANETTO, Fondazione CMCC, Venice, Italy

Author(s): Jacopo Furlanetto, Edoardo Albergo, Ngoc Diep Nguyen, Marinella Masina, Marcello Sano, Matteo Carisi, Alex Zabeo, Andrea Critto, Silvia Torresan

## A prototype service for the Resilience of the Electric Transmission grid to Extreme events (RETE)

Sandro CALMANTI, ENEA, Rome, Italy

Author(s): Sandro Calmanti, Federico Falorni, Nicola Amoroso, Alessandro Anav, Loredana Bellantuono, Roberto Bellotti, Simona Bordoni, Osvaldo Bottiglieri, Oliver Carlo, Roberto Cilli, Silvio Gualdi, Annalisa Cherchi, Gabriele Frank, Giusy Fedele, Marco Chiericoni, Chiara De Bartolo, Silvano Donvito, Alessandro Lazzarini, Piero Lionello, Nunzio Losacco, Michele Morelli, Paola Mercogliano, Luca Orrù, Ester Pantaleo, Francesca Scavo, Paolo Stocchi, Vito Tagarelli, Elena Tomasi

## Assessing Hail Risk on PV Plants: A Tailored Framework for Italy's Renewable Energy Sector

Luca LISCIOTTO, Ca' Foscari University, Venice, Italy

Author(s): Luca Lisciotto, Wilmer Pasut

## Hydraulic Risk Assessment with AI and Hydrodynamic Simulations: A Case Study in Piedmont, Italy

Francesco LUCARELLI, Eoliann S.R.L. Società Benefit, Turin, Italy

Author(s): Bartolo Albanese, Alessandro Bettuzzi, Roberto Carnicelli, Robin Castellani, Alessio de Sangro, Giacomo di Fuccia, Emidio Granito, Francesco Lucarelli, Giovanni Luddeni, Chiara Mugnai

## TurboMeter: Attributing aviation turbulence events to climate change

Tommaso ALBERTI, Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy

Author(s): Tommaso Alberti, Lia Rapella, Erika Coppola, Davide Faranda

## Assessing climate risk in urban revitalization: a comparative analysis of Poland and China

Adam CHORYŃSKI, Poznań University of Life Sciences, Poznań, Poland

Author(s): Adam Choryński, Iwona Pińskwar, Yingxin Wang, Iwona Pińskwar

Fri  
**24**  
Oct

10:45 – 11:15 (CEST) – Break

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Fri  
**24**  
Oct

11:15 – 12:00 (CEST) - Claudia Pasquero's Talk  
**Local and remote effects on the mid latitude climatic response to anthropogenic forcing**  
Chair: **TBC**

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

## Local and remote effects on the mid latitude climatic response to anthropogenic forcing

The warming observed on the Earth over the last decades is not homogeneous: different characteristics of the surface are responsible for a faster temperature rise over continents than over oceans, for a strong polar amplification, and for an elevation-dependent climate change.

In this talk, atmospheric thermodynamic and dynamic processes associated with differential warming, active locally or remotely, will be presented. In particular, the effects of water availability contrasts in soils and oceans on mid latitude climate and meteorological variability, including the occurrence of winter cold spells, heavy precipitation, and droughts, will be discussed.

*Claudia Pasquero is Associate Professor in Oceanography, Meteorology and Climatology at the University of Milano – Bicocca, where she studies interactions between oceans and climate. Recently, her research has focused on the dynamics of extreme meteo-climatic events, including tropical cyclones, mid-latitude storms, sudden stratospheric warming events, heavy rainfalls. Pasquero is part of the ESA Earth Explorer X "Harmony" Mission Advisory Group, and she leads related science projects on air-sea interactions. Recently, she has been an invited fellow at Ecole Normale Supérieure (Paris) and at Harvard University (USA). She has an active role in the communication of climate science to society (including writing popularization books and being the scientific director of the Planetaria festival).*

Fri  
**24**  
Oct

12:00 – 13:00 (CEST)  
**Poster session 3**

Palazzo di Città  
Hallway  
(1<sup>st</sup> floor)

*Posters list will be included in the final programme. It will be available in mid September.  
The whole poster list is available in the annex 1*

Fri  
**24**  
Oct

13:00 – 14:00 (CEST) – Lunch

Palazzo di Città  
Sala del Confalone  
(1<sup>st</sup> floor)

Fri  
**24**  
Oct

14:00 – 15:45 (CEST) – Parallel session 5  
**S5.1 – Tools for Climate Adaptation**  
Chair: Antonio Carbone, Sogesid Spa, Rome, Italy

Palazzo di Città  
Sala dei Marmi  
(1<sup>st</sup> floor)

## **A climate assessment framework for integrating adaptation into public real estate planning and design processes**

*Gianluca CAPRI*, Agenzia del Demanio, Roma, Italy

Author(s): Gianluca Capri, Carmela Aprea, Guglielmo Ricciardi, Alfredo Reder, Paola Mercogliano, Matteo Mariotti, Diana Giallonardo, Giacomo Antonino, Simona Domini, Claudia Scaramella

## **Building Resilience in Energy and Transportation Through Advanced Climate Risk Forecasting: results from the ENGAGEMENT project**

*Letizia LUSITO*, Inside Climate Service, Padova, Italy

Author(s): Letizia Lusito, Alberto Troccoli, Marco Borga, Mattia Zaramella, Giovanni Aldrigo, Stefano Cordeddu, Riccardo Bortolami, Elena Restivo, Susanna Strada, Carlotta Zanetti, Penelope Borman, Kristian Nielsen, Douglas Fraser

## **Building resilience to climate change: challenges and lessons learned at urban level**

*Francesca GIORDANO*, ISPRA, Rome, Italy

Author(s): Francesca Giordano, Anna Chiesura, Arnaldo Angelo De Benedetti, Luigi Di Micco, Alessandro Lotti, Giuliana Giardi, Valerio Silli, Saverio Venturilli

## **Urban green infrastructures and co-design: integrated strategies for climate resilience in Sicily**

*Barbara SARNARI*, SVI.MED. - EuroMediterranean Center for the Sustainable Development, Ragusa, Italy

Author(s): Barbara Sarnari, Riccardo Bresciani, Ilaria Principi, Nicoletta Denaro, Anacleto Rizzo, Fabio Masi, Vito Azzara, Vittoria Pennacchio

## **Voices of Climate Adaptation: stories from Adaptation AGORA to share experience and inspire action**

*Arianna ACIERNO*, Fondazione CMCC, Lecce, Italy

Author(s): Arianna Acerno, Paola Mercogliano, Antonella Mele

## **When Waters Rise, Do Social Norms Follow? Tracking Behavioral Evolution in Flood Prone Emilia Romagna Region**

*Marcello PETITTA*, Department of Mathematics and Physics, Roma Tre University, Roma, Italy

Author(s): Marcello Petitta, Giulia Andrighetto

Fri  
**24**  
Oct

14:00 – 15:45 (CEST) – Parallel session 5  
**S5.2 – Strategies and Policies for Resilience**  
Chair: Paola Faggian, RSE srl, Milan, Italy

Palazzo di Città  
Sala della Giunta  
(1<sup>st</sup> floor)

## **Towards an adaptation strategy in Trentino: results from a fully participatory, bottom-up approach to Vulnerability and Risk Assessment**

*Lavinia LAITI*, APPA, Provincia autonoma di Trento, Trento, Italy

Author(s): Lavinia Laiti, Roberto Barbiero

## **Community-Driven Resilience as a Path to Adaptation: Insights from Case Studies and Emerging Opportunities**

*Domenico VITO*, Fondazione Lombardia per l'Ambiente, Milan, Italy

Author(s): Domenico Vito, Mita Lapi, Aurora Nurce, Antonio Ballarin Denti, Luca Cetara, Marta Ellena, Paola Mercogliano

## **Climate risk management: adaptation and public procurement**

*Ewa PADEREWSKA*, Center for EU Transport Projects, Warsaw, Poland

Author(s): Ewa Paderewska, Przemysław Ostrowski

## Tailoring Regional Welfare Functions for Climate Adaptation: A Participatory Framework Aligning Local Priorities and Policy

Luca CETARA, Eurac Research, Bolzano, Italy

Author(s): Luca Cetara

## Citizens' Priorities for Climate Adaptation: A Willingness-to-Pay Approach in Six European Countries

Andrea BIGANO, Fondazione CMCC, Milan, Italy

Author(s): Anna Alberini, Andrea Bigano, Adan L. Martinez-Cruz

## Rising Temperatures, Shifting Paradigms: Exploring the Interplay Between Climate Change and Tourism Dynamics in the EU NUTS-2 regions.

Maria Grazia CITO, Università degli Studi di Bari "Aldo Moro", Bari, Italy

Author(s): Angela Stefania Bergantino, Maria Grazia Cito, Vicente Royuela

Fri  
24  
Oct

15:45 – 16:15 (CEST) – Closing session and award ceremony

Palazzo di Città  
Sala dei Marmi  
(1st floor)

Fri  
24  
Oct

SIDE EVENT (in Italian)  
18:00 – 19:00 (CEST) - Clima da leggere

iMorticelli

CLIMA DA LEGGERE - Presentazione del volume:

**Le parole giuste. Glossario ecologista (Fandango Libri)**

**Curatore:** A Sud – Centro di ricerca e azione attivo su ambiente, clima e giustizia sociale

**Intervengono:**

- Marica di Pierri, giornalista, ricercatrice, divulgatrice, portavoce di A Sud
- Paola Mercogliano, presidente della SISC e autore di una voce del glossario relativa al cambiamento climatico

**Modera:** Arturo Iannelli, Presidente della Commissione Ambiente del Comune di Salerno

**Abstract:** Il glossario raccoglie contributi provenienti dal mondo della scienza, della divulgazione, dell'attivismo, dell'informazione e dell'accademia. Il risultato è al tempo stesso una bussola per orientarsi e una cassetta degli attrezzi per approfondire teoria e pratica: dalle nozioni e concetti chiave fino alle sigle e ai vocaboli indispensabili per comprendere le questioni ambientali nelle loro molteplici sfumature.

 iMorticelli, ex chiesa di San Sebastiano del Monte dei Morti, Largo Plebiscito, Salerno

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza. Si chiede gentilmente di confermare la presenza compilando il modulo di iscrizione al singolo evento.

Maggiori informazioni: <https://www.sisclima.it/conferenza-annuale-2025/side-event-clima-da-leggere/>

## Day +1 | Saturday 25 October 2025

Sat  
**25**  
Oct

SIDE EVENT (in Italian)  
10:00 – 12:00 (CEST) - Clima e Cultura: esplorare il clima oltre la scienza

iMorticelli

### Clima e Cultura: esplorare il clima oltre la scienza

Un incontro che intreccia scienza, arte e antropologia per esplorare nuove narrazioni sul clima e stimolare un dialogo culturale aperto con la comunità.

#### Intervengono:

- **Andrea Mattiello:** storico dell'arte e ricercatore tra Oxford e NABA. Cura la rubrica So.N.Ar. – Società, natura, arti su Equilibri Magazine, FEEM, dove esplora l'intersezione tra arti visive, crisi climatica e trasformazioni culturali.
- **Elisabetta Dall'Ò:** antropologa ambientale. Professoressa del corso di "Modelli, Evidenze e Percezione dei cambiamenti climatico" al Politecnico di Torino.
- **Ludovica La Rocca:** architetta, co-fondatrice di Blam, collettivo di architetture che si occupa di rigenerazione urbana e innovazione sociale, con particolare attenzione al riuso adattivo del patrimonio culturale.
- **Giulio Boccaletti:** direttore scientifico del CMCC, esperto di sicurezza ambientale e risorse naturali. È saggista, imprenditore e senior executive con esperienza sia nel settore privato che no profit.

**Modera:** Paola Mercogliano, Presidente SISC e Principal Scientist del CMCC

📍 iMorticelli, ex chiesa di San Sebastiano del Monte dei Morti, Largo Plebiscito, Salerno

L'evento è **GRATUITO** e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza. Si chiede gentilmente di confermare la presenza compilando il modulo di iscrizione al singolo evento.

Maggiori informazioni: <https://www.sisclima.it/conferenza-annuale-2025/side-event-clima-e-cultura/>

Sat  
**25**  
Oct

SIDE EVENT (in Italian)  
18:00 – 19:00 (CEST) - Clima da leggere

Giardino della Minerva

CLIMA DA LEGGERE - Presentazione del volume:

### Il futuro della natura (edito da Mondadori)

**Autore:** Giulio Boccaletti, Scienziato e autore di saggi, esperto di sicurezza ambiente e gestione delle risorse naturali

**Moderatore:** Carla Errico, responsabile della redazione di Salerno de "Il Mattino"

**Abstract:** In un'epoca di guerre, pandemie e fughe verso Marte, Il futuro della natura spiega come comportarci sulla Terra, da custodi della nostra casa. Il pianeta sta cambiando. Le narrazioni apocalittiche non servono. Dobbiamo, invece, affrontare ciò che ci aspetta. Raccontare il futuro della natura, in fondo, significa raccontare il futuro di tutti noi.

📍 Giardino della Minerva, vicolo Ferrante Sanseverino 1, Salerno

L'evento è **GRATUITO** e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza. Si chiede gentilmente di confermare la presenza compilando il modulo di iscrizione al singolo evento.

Maggiori informazioni: <https://www.sisclima.it/conferenza-annuale-2025/side-event-clima-da-leggere/>

## Annex I – Posters

### At the intersection of Big data, HPC and AI for Climate Science

1. **A Bayesian Optimization-based approach to improve Oil Spill simulations**  
*Marco DE CARLO*, Fondazione CMCC, Lecce, Italy  
Author(s): Gabriele Accarino, Marco M. De Carlo, Igor Atake, Donatello Elia, Anusha L. Dissanayake, Antonio Augusto Sepp Neves, Juan Peña Ibañez, Italo Epicoco, Paola Nassisi, Sandro Fiore, Giovanni Coppini
2. **A Hybrid Deep Learning and Geostatistical Framework for High-Resolution Spatiotemporal Temperature Forecasting in Apulia, Italy**  
*Nouman IQBAL*, University of Salento, Lecce, Italy  
Author(s): Nouman Iqbal, Sandra De Iaco, Monica Palma
3. **AI-based quantification of European temperature and precipitation anomalies from the Euro-Atlantic weather regimes**  
*Alessandro CAMILLETTI*, Fondazione Bruno Kessler, Trento, Italy  
Author(s): Alessandro Camilletti, Elena Tomasi, Gabriele Franch, Marco Cristoforetti
4. **Applying Generative AI Models to Climate Risk Assessment: a Weather Generator for Extreme Precipitation**  
*Elena TOMASI*, Fondazione Bruno Kessler, Trento, Italy  
Author(s): Gabriele Franch, Elena Tomasi, Rishabh Wanjari, Uladzislau Azhel, Guido Rianna, Ilenia Manco, Paola Mercogliano, Marco Cristoforetti
5. **Exploring machine-learning capabilities as a weather generator over the Italian Peninsula**  
*Leonardo ARAGÃO*, Fondazione CMCC, Bologna, Italy  
Author(s): Leonardo Aragão, Silvio Gualdi
6. **Leveraging Graph Neural Networks for Enhancing Posidonia Oceanica Conservation Across Mediterranean Sea: Tackling Climate Change and Human Impact**  
*Angelica BIANCONI*, Fondazione CMCC, Venice, Italy  
Author(s): Angelica Bianconi, Sebastiano Vascon, Elisa Furlan and Andrea Critto
7. **Modelling climate impacts on biodiversity with deep neural networks**  
*Carlos RODRÍGUEZ - PARDO*, Politecnico di Milano, Milan, Italy  
Author(s): Marta Mastropietro, Carlos Rodriguez-Pardo, Cindy Azuero Pedraza, Massimo Tavoni
8. **Optimizing climate data management and access: enhancing the CMCC Data Delivery System**  
*Gabriele TRAMONTE*, Fondazione CMCC, Lecce, Italy  
Author(s): Gabriele Tramonte, Donatello Elia, Valentina Scardigno, Mario Raffa, Massimo Muraro, Paola Mercogliano, Paola Nassisi
9. **RHEA-DAPT: Transforming decision making with AI tool for climate adaptation planning**  
*Maria Katherina DAL BARCO*, Fondazione CMCC, Venice, Italy  
Author(s): Favilli Fabio, Poddar Debashmita, Chiarello Federico, Dal Barco Maria Katherina, Biancardi Aleu Rebeca, Furlan Elisa
10. **Severe weather monitoring: Convolutional Neural Networks and Satellite data for detection of lightning activities over Italy**  
*Otávio MEDEIROS FEITOSA*, Fondazione CMCC, Caserta, Italy  
Author(s): Otavio Feitosa, Paolo Francesco Duminuco, Ilenia Manco, Alessandro Bonfiglio, Giuseppe Giugliano, Giusy Fedele, Davide Morale, Gabriella Ceci, Giuliana Barbato, Paola Mercogliano.
11. **TreeTalkers data for sustainable vineyards: visualizing sapflow insights and soil management effects on grape physiology**  
*Alessandra NUZZO*, Fondazione CMCC, Lecce, Italy  
Author(s): Alessandra Nuzzo, Valentina Scardigno, Simone Beltramino, Maria Vincenza Chiriaco, Gabriele Pizzileo
12. **Using Wasserstein distance for clustering of climatological data**  
*Regina CASTROVILLI*, University of Salento, Lecce, Italy  
Author(s): Alessia Benevento, Regina Castrovilli, Fabrizio Durante, Daniela Gallo, Gianfausto Salvadori

### Risk management, adaptation and social and economic transformations

13. **An integrated approach that includes ecosystem services in wildfire risk mitigation strategies: first results of CRITERIA project**  
*Valentina BACCIU*, CNR Istituto per la BioEconomia, Sassari, Italy

Author(s): Grazia Pellizzaro, Valentina Bacciu, Liliana Del Giudice, Carla Scarpa Donatella Spano, José Maria Costa-Saura Fabrizio Pedes, Costantino Sirca, Mario Cozzi, Severino Romano, Michele Salis

14. **Assessing the Quality of Urban Climate Adaptation Plans: Insights from 2205 Cities of the Global Covenant of Mayors**  
*Filomena PIETRAPERIOSA*, Institute of Methodologies for Environmental Analysis – National Research Council of Italy and NBFC, National Biodiversity Future Center, Palermo, Italy  
Author(s): Filomena PIETRAPERIOSA, Aldo Treville, Diana Reckien, Monica Salvia, Vincent Vigué, Davide Geneletti, Byron Ioannou, Anna Krook-Riekkola, Paolo Bertoldi, Aoife M. Foley, Sonia De Gregorio Hurtado, Attila Buzási, Paris Fokaides, Klavdija Rižnar, Peter Eckersley, Oliver Heidrich, Efren Feliu, Luigi Santopietro, Hans Orru, Maria Szalmane Csete, Stelios Grafakos
15. **Climate Change Adaptation Mainstreaming: a brisk methodology to assess and improve the capability of public administrations to integrate adaptation into urban planning practices**  
*Stella PENNINO*, University of Naples Federico II, Napoli, Italy  
Author(s): Stella Pennino, Emilio Lèbre La Rovere, Romano Fistola
16. **Climate Change Communication Campaign promoted by secondary school students**  
*Lavinia LAITI*, APPA, Provincia autonoma di Trento, Trento, Italy  
Author(s): Roberto Barbiero, Lavinia Laiti, Laura Zumiani, Federica Pellegatti, Paulo Lima, Claudio Valenti, Sabrina Santorum, Laura Endrighi
17. **Climate Impacts on Arabica and Robusta Coffee Yields: Projections and Adaptation Strategies**  
*Raniero DELLA PERUTA*, Fondazione CMCC, Venice, Italy  
Author(s): Raniero DELLA PERUTA, Valentina Mereu, Donatella Spano, Serena Marras, Antonio Trabucco
18. **Closing the gap between research and projects in climate change innovation in Europe**  
*Francesca LAROSA*, Royal Institute of Technology, Stockholm, Sweden  
Author(s): Francesca Larosa, Marco Molinari, Panagiotis Varelas, Catalina Spataru, Jaroslav Mysiak
19. **Conceptualizing a multi-risk Bayesian Network model to identify nature-based management solutions to face water quality degradation in a changing climate**  
*Elena ALLEGRI*, CMCC and Ca' Foscari University of Venice, Venice, Italy  
Author(s): Elena Allegri, Francesc Maynou, Angelica Bianconi, Elisa Furlan, Hung Vuong Pham, Silvia de Juan, Andrea Critto, Antonio Marcomini
20. **Food Hubs as catalysts for sustainable Food Systems: insights from the SWITCH project**  
*Letizia ANDRIANI*, Fondazione CMCC, Lecce, Italy  
Author(s): Letizia Andriani, Chiara Trozzo, Kristel Polhuis, Laura Bouwman, Maria Vincenza Chiriaco
21. **From climate risk assessment to adaptation: a transdisciplinary framework for co-designing strategic adaptation measures in South Tyrol**  
*Fabio CARNELLI*, Eurac Research, Bolzano, Italy  
Author(s): Fabio Carnelli, Giacomo Bertoldi, Alice Crespi, Lydia Pedoth, Massimiliano Pittore, Michael Pörnbacher, Kathrin Renner, Marc Zebisch
22. **Identifying and managing drought as a governance risk: emergency water-use restrictions, seeds of conflicts, and sentences**  
*Francesca MUNEROL*, CIMA Foundation, Savona, Italy  
Author(s): Francesca Munerol, Margherita Andreaggi, Francesco Avanzi, Edoardo Cremonese, Marco Altamura
23. **Intersectional Feminist Analysis of Italy's National Adaptation Plan: Addressing Gendered Climate Vulnerabilities and Regional Disparities**  
*Berfin Tutku OZCAN*, School of Advanced Studies Sant'Anna, Pisa, Italy  
Author(s): Berfin Tutku Ozcan
24. **Linking Temperature Extremes and Labour Productivity in Integrated Assessment Models: a new modelling framework in AD-WITCH**  
*Gabriele MANSI*, Fondazione CMCC, Venice, Italy  
Author(s): Gabriele Mansi, Francesco Colelli
25. **Mainstreaming Climate Change Adaptation Policies into Sub-national Level Governance**  
*Aurora NURCE*, Fondazione Lombardia per l'Ambiente, Milan, Italy  
Author(s): Aurora Nurce, Mita Lapi, Gian Luca Gurrieri, Fabrizio Piccarolo, Monica Bernardi, Domenico Vito
26. **Mitigation strategies can alleviate power system vulnerability to climate change and extreme weather: a case study on the Italian grid**  
*Alice DI BELLA*, Politecnico di Milano, Milan, Italy  
Author(s): Alice Di Bella, Francesco Pietro Colelli

27. **Modelling systemic risk and resilience through networks: the AGILE case study in Venice**  
*Davide Mauro FERRARIO*, Fondazione CMCC, Venice, Italy  
Author(s): Margherita Maraschini; Samuele Casagrande, Davide Mauro Ferrario, Andrea Critto, Silvia Torresan
28. **Nature-Based Solutions and Risk Assessment for Enhanced Climate Change Adaptation in Coastal Areas**  
*Fabienne HORNEMAN*, Fondazione CMCC, Venice, Italy  
Author(s): Fabienne Horneman, Ignacio Gatti, Elisa Furlan, Andrea Critto, Silvia Torresan
29. **Resilience-oriented policy guidelines for mountain snow tourism destinations and communities.**  
*Andrea OMIZZOLO*, Eurac Research, Bolzano, Italy  
Author(s): Andrea Omizzolo, Philipp Corradini, Agnese Moroni
30. **Strengthening the resilience regarding CC-induced ecologic & socioeconomic effects in snow mountain destinations.**  
*Andrea OMIZZOLO*, Eurac Research, Bolzano, Italy  
Author(s): Andrea Omizzolo, Philipp Corradini, Agnese Moroni
31. **Summer 2025 in Piedmont: heatwaves and the new APP**  
*Agnese Maria COLIZZI*, Arpa Piemonte, Torino, Italy  
Author(s): Agnese Maria Colizzi, Barbara Cagnazzi, Chiara De Luigi, Manuela Bernardi, Cecilia Scarinzi, Cristiana Ivaldi
32. **Toward integrated and fire-smart land management in Sardinia: combining modelling and participatory approaches within a disaster risk reduction framework**  
*Valentina BACCIU*, Institute of BioEconomy, National Research Council, Sassari, Italy  
Author(s): Valentina BACCIU, Alessio Menini, Grazia Pellizzaro, Michela Bazzoni, Josè Costa Saura, Bachisio Arca, Pierpaolo Duce, Donatella Spano, Costantino Sirca
33. **What's in the Mud?! Community-led Biogeochemical Assessments of Unmonitored River Tributaries in New York's Disadvantaged Communities for Ecosystem Restoration and Accelerating Alternative Energy Solutions**  
*Brianna Elizabeth MIRANDA*, Haverstraw Estuary Field Station, Haverstraw, New York, United States of America  
Author(s): Brianna E. Miranda, Keith Tidball, Anna Davidson, Jose A. Andres, Ashley Morris, Chris Bowser, Jeffry Pecctraca, Emmet Sutton

## Changes in means and extremes: trends and dynamic at multiple scales

34. **Classification of the atmospheric circulation schemes associated with katabatic wind events in the Ross Sea (Antarctica)**  
*Lauro D'ESPOSITO*, Parthenope University of Naples, Napoli, Italy  
Author(s): Lauro D'ESPOSITO, Vincenzo Capozzi, Pasquale Castagno, Giannetta Fusco, Giorgio Budillon
35. **Climate analysis for health impact evaluation in urban areas**  
*Giulio SETTANTA*, ISPRA, Rome, Italy  
Author(s): Giulio Settanta, Piero Frascchetti, Francesca Lena, Walter Perconti, Emanuela Piervitali
36. **Climate Change Attribution of hydroclimatic hazards in the Emilia-Romagna region of Italy through multivariate analogues techniques**  
*Valerio LEMBO*, CNR-ISAC, Bologna, Italy  
Author(s): Valerio LEMBO, Tommaso Alberti, Mireia Ginesta, Davide Faranda
37. **CLIMED web site to investigate climate change over Italy**  
*Goffredo DECIMI*, RSE S.p.A., Milan, Italy  
Author(s): Goffredo Decimi, Arianna Trevisiol, Paola Faggian
38. **CMIP6 downscaling in EURO-CORDEX**  
*Alejandro VICHOT-LLANO*, Fondazione CMCC, Caserta, Italy  
Author(s): ALEJANDRO VICHOT LLANO, Mario Raffa, Angelo Campanale, Gabriella Ceci, Marianna Adinolfi, Paola Mercogliano
39. **Evaluating extreme precipitation events across different timescales: A comparison of high-resolution modelling and observed data in Emilia-Romagna**  
*Piero LIONELLO*, University of Salento, Lecce, Italy  
Author(s): Oliver S. Carlo, Giusy Fedele, Silvio Gualdi, Paola Mercogliano, Piero Lionello
40. **Investigating SST's role in Mediterranean tornado dynamics**  
*Elenio AVOLIO*, CNR-ISAC, Lecce, Italy  
Author(s): Elenio Avolio, Claudia Fanelli, Andrea Pisano, Mario Marcello Miglietta

41. **Multi-scale Assessment of Temperature Dynamics and Heat Wave Trends with High-Resolution Climate Data**  
*Stefania OLIVA*, Fondazione CMCC, Caserta, Italy  
Author(s): S. Oliva, M. Raffa, M. Adinolfi, A. Campanale, A. Reder, P. Mercogliano
42. **Statistical Downscaling over Italy using EQM: CMIP6 Climate Projections and related Key Climate Indicators for the 1985-2100 Period**  
*Giusy FEDELE*, Fondazione CMCC, Caserta, Italy  
Author(s): Giusy Fedele, Giuseppe Giugliano, Alfredo Reder and Paola Mercogliano
43. **The X-RISK-CC webGIS of alpine-wide climate extremes**  
*Piero CAMPALANI*, Eurac Research, Bozen/Bolzano, Italy  
Author(s): Piero Campalani, Alice Crespi, Elena Maines, Sebastian Lehner, Živa Vlahović, Maja Žun, Marc Zebisch
44. **Thermodynamic and Dynamic Contribution in Precipitation Extremes over Europe and the Mediterranean Basin**  
*Lisa BERNINI*, CIMA Foundation, Savona, Italy  
Author(s): Lisa Bernini, Stephan Pfahl, Antonio Parodi, Claudia Pasquero
45. **Time and space variability of tornadoes occurrence: an empirical approach**  
*Aqsa MUHAMMADI*, University of Salento, Lecce, Italy  
Author(s): Aqsa Muhammadi, Roberto Ingrosso, Gianfausto Salvadori, Piero Lionello
46. **Uncertainties in high-resolution extreme precipitation scenarios over Italy from dynamical and statistical modeling**  
*Sandro CALMANTI*, ENEA, Rome, Italy  
Author(s): Sandro Calmanti, Giusy Fedele, Paolo Lanteri, Elena Tomasi, Gabriele Franch, Simona Bordoni, Paola Mercogliano

### Climate related impacts on natural and human systems across landscapes

47. **A Methodological Approach to Assess Expected Crops Distribution to Satisfy Future Food Demand**  
*Simone BELTRAMINO*, Fondazione CMCC, Lecce, Italy  
Author(s): Simone Beltramino, Riccardo Valentini, Maria Vincenza Chiriaco
48. **A methodological framework to assess the impact of climate change on marine sediment bottom stress and erosion processes: preliminary results from the area of Taranto (southern Italy)**  
*Angela RIZZO*, University of Bari, Bari, Italy  
Author(s): Diana De Padova, Giuliana Barbato, Giuseppe Mastronuzzi, Paola Mercogliano, Michele Mossa, ANGELA RIZZO
49. **Advancing land-sea interface multi-hazard cumulative impact assessment in the Valencian Community through AI-powered strategic foresight analysis.**  
*Gea GRASSI*, Fondazione CMCC, Venice, Italy  
Author(s): Gea Grassi, Federica Zennaro, Elisa Furlan, Andrea Critto
50. **Assessing the suitability of pistachio as a diversification crop under climate change conditions in the Mediterranean regions: a literature review**  
*Bader IJAZ*, University of Sassari, Sassari, Italy  
Author(s): Bader Ijaz, Marta Debolini, Donatella Spano
51. **Assessing urban microclimate influences on air quality through integrated monitoring and dispersion modelling in Lecce (Southern Italy)**  
*Gianluca PAPPACCOGLI*, University of Salento, Lecce, Italy  
Author(s): Chiara Metrangolo, Adelaide Dinoi, Gianluca Pappaccogli, Riccardo Buccolieri
52. **Climate Services as Public Infrastructure: Lessons from European Research Partnerships**  
*Marcello PETITTA*, Mathematics and Physics Department, Roma tre University, Roma, Italy  
Author(s): Marcello Petitta, Sandro calmanti, Matteo De Felice
53. **Coast-Aid: A custom AI application to assess coastal risk and resilience**  
*Maria Katherina DAL BARCO*, Fondazione CMCC, Lecce, Italy  
Author(s): MARIA KATHERINA DAL BARCO, Veronica Casartelli, Marcello Sanò, Sebastiano Vascon, Silvia Torresan, Andrea Critto
54. **Enhancing Water Quality Resilience: AI-Based Multi-Risk Assessment for Climate and Land Use Change Adaptation**  
*Diep Ngoc NGUYEN*, Fondazione CMCC, Venice, Italy  
Author(s): Diep Ngoc Nguyen, Jacopo Furlanetto, Silvia Torresan, Andrea Critto

55. **Exploring climate projections uncertainty propagation in the integration of adaptation strategies into practices for infrastructure design and maintenance**  
*Mattia SCALAS*, Fondazione CMCC, Caserta, Italy  
Author(s): Mattia SCALAS, Alessandro Pugliese, Luz Adriana Gomez Mogollon, Giuliana Barbato, Paola Mercogliano, Guido Rianna, Alfredo Reder
56. **Exploring Drivers of Forest Microclimates in Central Italy**  
*Autumn MANNSFELD*, Fondazione CMCC, Viterbo, Italy  
Author(s): Autumn Mannsfeld, Nafeesa Samad, Maria Vincenza Chiriaco
57. **Extreme Temperatures Risk: the case study of Turin in the Horizon Europe SDGs-EYES project**  
*Alessandro PUGLIESE*, Fondazione CMCC, Caserta, Italy  
Author(s): ALESSANDRO PUGLIESE, Marta Ellena, Mattia Scalas, Giuliana Barbato, Alfredo Reder, Alessandro D'Anca, Jishnu Jeevan, Paola Mercogliano, Nicolás Zengarini, Teresa Spadea, Elena Strippoli, Giulia Melis, Eduardo Di Gangi
58. **Future Health Impacts of Heatwaves in Italy Considering Climate Change Scenarios**  
*Francesca DE' DONATO*, Dipartimento di epidemiologia ASL ROMA 1, SSR Lazio, Rome, Italy  
Author(s): Francesca de' Donato, Alessandro Pugliese, Paola Mercogliano, Giuliana Barbato, Manuela De Sario, Chiara Di Blasi, Paola Michelozzi
59. **Global warming influence on shallow landslide events in northwestern Italy**  
*Christian RONCHI*, Arpa Piemonte, Turin, Italy  
Author(s): Davide Tiranti, Valentina Botto, Elisa Brussolo, Christian Ronchi
60. **Impact of precipitation anomalies on viticulture resilience and grape production: the case study of Molise, Italy**  
*Gianluca PAPPACCOGLI*, University of Salento, Lecce, Italy  
Author(s): Gianluca Pappaccogli, Mirko Sodini, Francesco Landolfo, Giuseppe Rossetti, Giuliana Maddalena, Silvia Toffolatti, Filippo De Curtis, Mauro Confalonieri, Piero Lionello, Laura Rustioni
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*Domenico D'AUSILIO*, Parthenope University of Naples, Napoli, Italy  
Author(s): Domenico D'Ausilio, Davide Morale, Massimiliano Cerciello, Marta Ellena, Paola Mercogliano, Claudio Parente, Alessandro Pugliese, Giuliana Barbato, Alfredo Reder
62. **Interpretability of Machine Learning Models to Analyse the Correlation Between Environmental Features and Respiratory Admissions in the Emergency Room**  
*Vito TELESCA*, University of Basilicata, Potenza, Italy  
Author(s): Vito Telesca, Marica Rondinone
63. **Linking climate change impacts on Net Primary Production in the Atlantic and mid-century global macroeconomic scenarios**  
*Gabriele STANDARDI*, University of Milan, Milan, Italy  
Author(s): Gabriele STANDARDI, Serena Zunino, Simone Libralato, Francesco Bosello, Elisa Delpiazzi, Ramon Key, Sebastian Villasante, Katie Longo, Marco Reale, Donata Canu, Gillian Ainsworth, Jacobo Feàs, Bruno Buongiorno Nardelli, Olivier Jaillon, Lynn Shannon
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*Gabriele MANSI*, Fondazione CMCC, Venice, Italy  
Author(s): Gabriele Mansi, Francesco Bosello
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*Jacopo FURLANETTO*, Fondazione CMCC, Venice, Italy  
Author(s): Jacopo Furlanetto, Marinella Masina, Davide Mauro Ferrario, Edoardo Albergo, Heloisa Labella Fonseca, Margherita Maraschini, Silvia Torresan, Andrea Critto
66. **Shifting Bioclimatic Conditions through Machine Learning High Resolution Global Environmental Stratification**  
*Antonio TRABUCCO*, Foundation CMCC, Sassari, ITALY  
Author(s): Robert J. Zomer, Marc J. Metzger, Jianchu Xu(e), Antonio Trabucco
67. **Species-Specific Responses of Stem Radial Growth and Water Transport to Flash Drought in a Mediterranean Forest: A Case Study from central Italy**  
*Nafeesa SAMAD*, Fondazione CMCC, Viterbo, Italy  
Author(s): Nafeesa SAMAD, Autumn Mannsfeld, Maria Vincenza Chiriaco

68. **Too hot or too cold: Effect of weather shock on self-reported mental health outcomes in South Africa**  
*Odunola Alexander OLADEJI*, Gran Sasso Science Institute, L'Aquila, Italy  
Author(s): Odunola A. Oladeji
69. **Vine grapes productivity and weather fluctuations: evidence for Italian regions (2006-2022)**  
*Claudio MANCUSO*, Parthenope University of Naples, Napoli, Italy  
Author(s): Claudio Mancuso, Giulio Paolo Agnusdei, Marco De Simone, Elisabetta Marzano, Pier Paolo Miglietta
70. **Water-Energy-Food-Ecosystem Nexus approach for integrated system assessment in Sardinia region**  
*Muhammad Faizan ASLAM*, Fondazione CMCC and National Biodiversity Future Center S.c.a.r.l., (NBFC), Italy  
Author(s): Muhammad Faizan ASLAM, Sara Masia, Marta Debolini, Janez Susnik, Andrea Borgo, Simone Mereu, Antonio Trabucco

### Mitigation technologies for ambitious climate targets

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*Mohammad ALDUBYAN*, King Abdullah Petroleum Studies and Research Center, Riyadh, Saudi Arabia  
Author(s): Mohammad Aldubyan
72. **Geospatial AI and geospatial big data analytics to decarbonise consumer level emissions**  
*Sara GIAROLA*, Politecnico di Milano, Milan, Italy  
Author(s): DIEGO MOYA, Sara Giarola, Adam Hawkes
73. **Modeling Methane Emissions from Wetlands: projections and impacts for climate policy**  
*Cindy AZUERO PEDRAZA*, Fondazione CMCC, Milan, Italy  
Author(s): Carlos Rodriguez-Pardo, Cindy Azuero Pedraza, Lara Aleluia, Laurent Drouet

## List of Participants

(update: 7 Aug 2025)

|                                                                                                          |                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Arianna <b>ACIERNO</b> , Fondazione CMCC, Italy                                                          | Adam <b>CHORYŃSKI</b> , Poznań University of Life Sciences, Poland                                                                     |
| Mohammad <b>ALDUBYAN</b> , KAPSARC, Saudi Arabia                                                         | Maria Grazia <b>CITO</b> , Università degli Studi di Bari "Aldo Moro", Dipartimento di Economia, Management e Diritto d'Impresa, Italy |
| Elena <b>ALLEGRI</b> , Fondazione CMCC, Italy                                                            | Agnese Maria <b>COLIZZI</b> , ARPA Piemonte, Italy                                                                                     |
| Margherita <b>ANDREAGGI</b> , Fondazione CIMA, Italy                                                     | Federico <b>CORNACCHIA</b> , Fondazione Eni Enrico Mattei and Ca' Foscari University of Venice, Italy                                  |
| Letizia <b>ANDRIANI</b> , Fondazione CMCC, Italy                                                         | Maria Katherina <b>DAL BARCO</b> , Fondazione CMCC, Italy                                                                              |
| Carmela <b>APREDA</b> , Fondazione CMCC, Italy                                                           | Alessandro <b>DAMIANI</b> , National Institute for Environmental Studies, Japan                                                        |
| Leonardo <b>ARAGÃO</b> , Fondazione CMCC, Italy                                                          | Goffredo <b>DECIMI</b> , RSE S.p.A., Italy                                                                                             |
| Muhammad Faizan <b>ASLAM</b> , Fondazione CMCC, Italy                                                    | Francesca <b>DE' DONATO</b> , Department of Epidemiology, Lazio regional health Service, Italy                                         |
| Elenio <b>AVOLIO</b> , CNR-ISAC, Italy                                                                   | Raniero <b>DELLA PERUTA</b> , Fondazione CMCC, Italy                                                                                   |
| Cindy <b>AZUERO PEDRAZA</b> , Fondazione CMCC, Italy                                                     | Lauro <b>D'ESPOSITO</b> , University "Ca' Foscari" of Venice / University "Parthenope" of Naples, Italy                                |
| Valentina <b>BACCIU</b> , CNR, Italy                                                                     | Alice <b>DI BELLA</b> , Politecnico di Milano, Italy                                                                                   |
| Roberto <b>BARBIERO</b> , APPA - Provincia autonoma di Trento, Italy                                     | Luigi <b>DI MICCO</b> , ISPRA, Italy                                                                                                   |
| Federico <b>BEFFA</b> , Fondazione Cariplo, Italy                                                        | Fabio <b>EBOLI</b> , ENEA, Italy                                                                                                       |
| Simone <b>BELTRAMINO</b> , Fondazione CMCC, Italy                                                        | Antonio <b>ESPOSITO</b> , University of Salento, Italy                                                                                 |
| Lisa <b>BERNINI</b> , CIMA Foundation, Italy                                                             | Federico <b>FABIANO</b> , CNR-ISAC, Italy                                                                                              |
| Carlo Alessandro <b>BERTETTI</b> , Studio Progetto Ambiente Srl, Italy                                   | Paola <b>FAGGIAN</b> , RSE S.p.A., Italy                                                                                               |
| Angelica <b>BIANCONI</b> , Fondazione CMCC, Italy                                                        | Giusy <b>FEDELE</b> , Fondazione CMCC, Italy                                                                                           |
| Andrea <b>BIGANO</b> , Fondazione CMCC, Italy                                                            | Davide Mauro <b>FERRARIO</b> , Fondazione CMCC, Italy                                                                                  |
| Federica <b>BORILE</b> , University of Bologna, Italy                                                    | Alfonso <b>FERRONE</b> , CINECA, Italy                                                                                                 |
| Rosa <b>CAFARO</b> , University of Naples Federico II, Italy                                             | Filippo <b>FRASCHINI</b> , CIMA Foundation, Italy                                                                                      |
| Barbara <b>CAGNAZZI</b> , ARPA Piemonte, Italy                                                           | Jacopo <b>FURLANETTO</b> , Fondazione CMCC, Italy                                                                                      |
| Sandro <b>CALMANTI</b> , ENEA, Italy                                                                     | Valentina <b>GALLINA</b> , ARPA FVG, Italy                                                                                             |
| Riccardo <b>CAMBONI</b> , University of Padova, Italy                                                    | Martina <b>GAMBARO</b> , SISC and Fondazione CMCC, Italy                                                                               |
| Alessandro <b>CAMILLETTI</b> , Fondazione Bruno Kessler, Italy                                           | Sara <b>GIAROLA</b> , Polytechnic of Milan, Italy                                                                                      |
| Piero <b>CAMPALANI</b> , Eurac Research, Italy                                                           | Francesca <b>GIORDANO</b> , ISPRA, Italy                                                                                               |
| ANGELO <b>CAMPANALE</b> , Fondazione CMCC, Italy                                                         | Massimo <b>GISONNI</b> , CINECA, Italy                                                                                                 |
| Osman Hakan <b>CAN</b> , Universitat de Barcelona, Spain                                                 | Fabienne <b>HORNEMAN</b> , Fondazione CMCC, Italy                                                                                      |
| Vincenzo <b>CAPOZZI</b> , Department of Science and Technology, University of Naples "Parthenope", Italy | Bader <b>IJAZ</b> , University of Sassari, Italy                                                                                       |
| Gianluca <b>CAPRI</b> , Agenzia del Demanio, Italy                                                       | Roberto <b>INGROSSO</b> , CNR-ISAC, Italy                                                                                              |
| Antonio <b>CARBONE</b> , Sogesid spa, Italy                                                              | Doroteaciro <b>IOVINO</b> , Fondazione CMCC, Italy                                                                                     |
| Fabio <b>CARNELLI</b> , Eurac Research, Italy                                                            | Nouman <b>IQBAL</b> , Università del Salento, Italy                                                                                    |
| Regina <b>CASTROVILLI</b> , University of Salento, Italy                                                 | Ivan <b>KANCHEV</b> , International Society for Ecological Economics - ISEE, Republic of North Macedonia                               |
| Cristina <b>CATTANEO</b> , Fondazione CMCC, Italy                                                        |                                                                                                                                        |
| Luca <b>CETARA</b> , Eurac research, Italy                                                               |                                                                                                                                        |
| Marco <b>CHERICONI</b> , IUSS Pavia, Italy                                                               |                                                                                                                                        |

Lavinia **LAITI**, APPA - Provincia autonoma di Trento, Italy  
Mita **LAPI**, Fondazione Lombardia per l'Ambiente, Italy  
Francesca **LAROSA**, Royal Institute of Technology - KTH, Sweden  
Valerio **LEMBO**, CNR-ISAC, Italy  
Antonino **LIBRO**, Regione Emilia-Romagna, Italy  
Piero **LIONELLO**, University of Salento, Italy  
Luca **LISCIO**, DNV and Ca' Foscari University of Venice, Italy  
Francesco **LUCARELLI**, Eoliann, Italy  
Letizia **LUSITO**, Inside Climate Service, Italy  
Ilenia **MANCO**, Fondazione CMCC, Italy  
Claudio **MANCUSO**, Parthenope University, Italy  
Autumn **MANNFELD**, Fondazione CMCC, Italy  
Gabriele **MANSI**, Fondazione CMCC, Italy  
Matteo **MARIOTTI**, Agenzia del Demanio, Italy  
Peter **MCKEOWN**, University of Galway, Ireland  
Otavio **MEDEIROS FEITOSA**, Fondazione CMCC, Italy  
Massimo **MILELLI**, CIMA Foundation, Italy  
Brianna **MIRANDA**, Haverstraw Estuary Field Station, United States  
Luca **MONACO**, CIMA Foundation, Italy  
Davide **MORALE**, Fondazione CMCC, Italy  
Alessandro **MOSER**, AMIGO srl, Italy  
Aqsa **MUHAMMADI**, University of Salento, Italy  
Francesca **MUNEROL**, Fondazione CIMA, Italy  
Mauro **MUSSIN**, ARPA Lombardia, Italy  
Ngoc Diep **NGUYEN**, Ca' Foscari University of Venice and Fondazione CMCC, Italy  
Aurora **NURCE**, Università degli studi di Milano Bicocca, Italy  
Alessandra **NUZZO**, Fondazione CMCC, Italy  
Odunola **OLADEJI**, Gran Sasso Science Institute, Italy  
Stefania **OLIVA**, Fondazione CMCC, Italy  
Andrea **OMIZZOLO**, Eurac Research, Italy

Przemysław **OSTROWSKI**, Centre for EU Transport Projects - CEUTP, Poland  
Berfin Tutku **OZCAN**, Sant'Anna School of Advanced Studies, Italy  
Ewa **PADEREWSKA**, Centre for EU Transport Projects - CEUTP, Poland  
Giacomo Davide **PAGLIARO**, Agenzia ItaliaMeteo, Italy  
Gianluca **PAPPACCOGLI**, University of Salento, Italy  
Antonello **PASINI**, CNR, Italy  
Stella **PENNINO**, University of Naples Federico II, Italy  
Marcello **PETITTA**, Department of Mathematics and Physics, Roma Tre University, Italy  
Filomena **PIETRAPERIOSA**, CNR-IMAA, Italy  
Gabriele **PIZZILEO**, Fondazione CMCC, Italy  
Alessandro **PUGLIESE**, Fondazione CMCC, Italy  
Marco **REALE**, National Institute of Oceanography and Applied Geophysics - OGS, Italy  
Carlos **RODRIGUEZ - PARDO**, Politecnico di Milano, Spagna  
Ludovica **SACCO**, University of Trento, Italy  
Nafeesa **SAMAD**, Fondazione CMCC, Italy  
Barbara **SARNARI**, SVI.MED., Italy  
Mattia **SCALAS**, Fondazione CMCC, Italy  
Giulio **SETTANTA**, ISPRA, Italy  
Afshin **SHAFEI**, Sapienza University of Rome, Italy  
Jonathan **SPINONI**, Fondazione CMCC, Italy  
Gabriele **STANDARDI**, Department of Environmental Science and Policy, University of Milan, Italy  
Elena **TOMASI**, Fondazione Bruno Kessler, Italy  
Rodica **TOMOZEIU**, Arpa-SIMC, Emilia-Romagna, Italy  
Alejandro **VICHOT-LLANO**, Fondazione CMCC, Italy  
Domenico **VITO**, Fondazione Lombardia per l'Ambiente, Italy  
Liliana **VIZINTIN**, Science and Research Centre Koper, Slovenia  
Federica **ZENNARO**, Fondazione CMCC, Italy  
Andrea **ZONATO**, CIMA foundation, Italy