PROGRAMME OVERVIEW

Sun 1 Nov 2026	Mon 2 Nov 2026	Tue 3 Nov 2026	Wed 4 Nov 2026
		7:00-8:00 – 5k at dawn in Bolzano	
		8:30-9:00 - Registrations	8:45-9:00 - Registrations
		9:00-10:30 Parallel session 3	9:00-9:45 Keynote talk: Jana Sillmann
			9:45-10:30 – Poster session 2
	10:00-11:00 - Registrations	10:30-11.00 - Coffee break	10:30-11.00 - Coffee break
	11:00-11:30 - Welcome and opening address	11:00-13:00 Parallel session 4	11:00-12:30 Parallel session 6
	11:30-13:00 Parallel session 1		12:30-13:00 Closing session and award ceremony
	13:00-14:00 - Lunch	13:00-13:50 - Lunch	13:00-14:00 - Lunch
		13:50-14:00 Group Photo	
	14:00-14:45 Keynote talk: Elisa Morgera	14:00-14:45 Keynote talk: Marco Marani	14:00-15:30 – Hike
	14:45-15:30 – Poster session 1	14:45-15:55 Parallel session 5	
	15:30-15:50 – Tea break		
	15:50-17:20 Parallel session 2 / 15:50-17:20 SIDE EVENT Clima e Governance	15:55-16:15 – Tea break	
		16:15-17:15 Assemblea dei soci SISC / 16:15-17:15 Serious Game	
	17:45-18:45 SIDE EVENT Clima da Leggere	17:45-18:45 SIDE EVENT Clima e Cultura	
	20:00 - Social Dinner		
SIDE EVENT Bike4SISC 30 Oct – 1 Nov 2026			

Organized by

Italian Society for Climate Sciences SISC

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Parallel Session Overview

Parallel session 1

S1.1	S1.2	S1.3	S1.4
Climate Governance I: Justice, Global Order and Science-Policy Interfaces	**Flood Risk Assessment, Vulnerability and Community Resilience**	**Wildfire Risk and Fire Weather**	**AI, Data-Driven Frameworks and Digital Climate Services for Policy and Adaptation**
Auditorium	Seminar 1+2+3	Conference hall	Seminar 7

Parallel session 2

S2.1	S2.2	S2.3	S2.4
Integrazione tra scienza e governance per la resilienza climatica: esperienze di pianificazione regionale dell'adattamento in Italia	**Economics of Climate Change and Carbon Markets**	**Climate Risk Assessment and Early Warning Tools I**	**Climate Modelling and Downscaling I: AI and Statistical Approaches**
Auditorium	Seminar 1+2+3	Conference hall	Seminar 7

Parallel session 3

S3.1	S3.2	S3.3	S3.4
Drought, Water Scarcity and Resource Management	**Urban Heat Islands, Thermal Comfort and Building Energy Demand**	**Climate Governance II: Institutions, Policy Coherence and Adaptation Planning**	**Climate Modelling and Downscaling II: Mesoscale and Regional Processes**
Auditorium	Seminar 1+2+3	Conference hall	Seminar 7

Parallel session 4

S4.1	S4.2	S4.3	S4.4
Droughts in Mountain Regions: Processes, Impacts, Risk and Adaptation Strategies	**Extreme Precipitation I: Trends, Projections and Flood Risk**	**Climate Variability, Paleoclimate, Cascading Hazards and Resilience**	**Participatory Adaptation and Climate Communication: Co-design, Community Engagement and Pathways**
Auditorium	Seminar 1+2+3	Conference hall	Seminar 7

Parallel session 5

S5.1	S5.2	S5.3	S5.4
Climate Adaptation Across Sectors: Infrastructure, Heritage, Business and Energy	**Building Heat Tolerance in Vulnerable Populations for the Benefit of Society: Active Mobility, Routing and Digital Health**	**Sustainable Innovation in Energy Systems and Low-Carbon Transition**	**Extreme Precipitation II: Impacts, Land-Use and Resilience**
Auditorium	Seminar 1+2+3	Conference hall	Seminar 7

Parallel session 6

S6.1	S6.2	S6.3
Climate Risk Assessment and Early Warning Tools II	**Climate Justice, Law, Human Rights and Societal Transformation**	**Temperature Anomalies, Heat Waves and Climate-Economic Impacts**
Auditorium	Seminar 1+2+3	Conference hall

Programme

(Last update: 30 October 2026)

The Scientific Conference will be held from Monday 2 November to Wednesday 4 November 2026. 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 | Sunday 1 November 2026

Sun 1 Nov

Bike4SISC (final leg)

Bike4SISC 2026 is an organized cycling trip to the SISC Annual Conference 2026, travelling from Bologna to Bolzano through Mantova and the Adige Valley. Participants interested in joining the ride for one or more days can contact: bike4climate@sisclima.it

- *30 October — Bologna → Mantova*
- *31 October — Mantova → Rovereto*
- *1 November — Rovereto → Bolzano*

Dear Colleagues,
This year, the SISC Annual Conference will once again be preceded by a special journey, a cycling trip from Bologna to Bolzano!
From 30 October to 1 November, a group of climate scientists will cycle across the Po Valley and along the Adige Valley, turning their travel to the conference into an opportunity to promote sustainable mobility and explore the environmental challenges facing the regions along the route.
Three days, three stages, and three key topics: air quality between Bologna and Mantova, water resources and their management between Mantova and Rovereto, and the relationship between agriculture and climate change on the final stretch to Bolzano.
Bike4SISC is open to everyone attending the conference. You can take part in the entire journey or join for just one stage, or even part of a stage. It is a different way to travel to the conference, share experiences, and connect with fellow scientists outside the usual working environment.
*If you are in Bologna, join us on **Thursday, 29 October, at 18:30 at Ex Dynamo, via Indipendenza 71/z**. Together with Salvaiciclisti-Bologna, we will present the cycling itinerary and related activities at an open event dedicated to sustainable mobility, climate change, and dialogue between science and society.*
For further information or to join the ride, even for just one stage, please contact bike4climate@sisclima.it.
We look forward to seeing you in Bologna, along the route, or at the finish line in Bolzano!
Best wishes,
The Bike4SISC 2026 Team

Day 1 | Monday 2 November 2026

Mon 2 Nov	10:00 – 11:00	Registration of participants Pick your badge!	Eurac Reseach Main Entrance

Mon 2 Nov	11:00 – 11:30	**Conference opening and welcome**	Auditorium

Paola MERCOGLIANO, SISC President and CMCC Foundation - Euro-Mediterranean Center on Climate Change

Marc Zebisch, Head of Center for Climate Change and Transformation, Eurac Reseach

Massimiliano PITTORE, Elisa RAVAZZOLI, Eurac Reseach

Sandro CALMANTI, Bike4SISC

Mon 2 Nov	11:30 – 13:00	**S1.1**	PARALLEL SESSION I **Climate Governance I: Justice, Global Order and Science-Policy Interfaces**	Room Audirorium

Chair: Elisa Fiorini Beckhauser, CMCC Foundation - Euro-Mediterranean Center on Climate Change

2026-074 11:30 **Beyond the Metrics: De-Centering Technocratic Governance Through Intersectional Climate Justice** — TOPIC 3
Lucia RAFFAELLI, EcamRicert S.R.L., Monte di Malo, Italy
Author(s): Lucia Raffaelli, Anna Baldo, Michele Milan

2026-123 11:50 **Developing a conceptual framework to guide climate change adaptation planning** — TOPIC 2
Fabio CARNELLI, Eurac Research, Bolzano, Italy
Author(s): Fabio Carnelli, Silvia Cocuccioni, Michael Pörnbacher, Elisa Ravazzoli, Federica Romagnoli

2026-036 12:10 **Addressing Barriers in Climate Transition Strategies: Evidence from Six Italian Territories** — TOPIC 2
Chiara MIONI, Eurac Research, Bolzano, Italy
Author(s): Elisa Ravazzoli, Chiara Mioni, Romina Lavarello-Schettini, Luca Cetara, Lorenzo Mucciarelli, Benedetta Oberti, Marc Zebisch

2026-062 12:30 **Comparison of operational preparedness for drought risk in the Marittimo Interreg Cooperation Area** — TOPIC 3
Margherita ANDREAGGI, Cima Research Foundation, Savona, Italy
Author(s): Sabrina Meninno, Margherita ANDREAGGI, Silvia Fanti, Marina Morando

(12:50-13:00 - Catch-up time)

Mon 2 Nov | 11:30 – 13:00 | **S1.2** | PARALLEL SESSION I | **Flood Risk Assessment, Vulnerability and Community Resilience** | Room Seminar 1+2+3

Chair: Giulio Settanta, ISPRA

2026-054
11:30 **"Coastal Challenge": A serious game to explore coastal**
Mathilde JOLY, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Milan, Italy
Author(s): Paola Tanguy, Chiara Trozzo, Giulia Galluccio, Mathilde Joly
TOPIC 3

2026-097
11:50 **Rainfall extreme events dynamic and attribution: the Valencia case study**
Marcello PETITTA, Roma Tre University, Rome, Italy
Author(s): Natalia Barreto Rodriguez, Valerio Lembo, Tommaso Alberti, Marcello Petitta
TOPIC 1

2026-043
12:10 **Nudging from Theory to Practice: Co-designing Behavioural Measures for Flood Risk Management in Small Municipalities**
Giada DE ANGELIS, Eurac Research, Bolzano, Italy
Author(s): Giada De Angelis, Luca Cetara
TOPIC 3

2026-045
12:30 **First evidence from an empirical survey of people affected by the May 2024 flood in the Martesana region (Northern Italy): impacts and adaptation preferences**
Guilherme SAMPROGNA MOHOR, University of Potsdam, Potsdam, Germany
Author(s): Guilherme Samprogna Mohor, Sara Rrokaj, Elena Sezenna, Arianna Azzellino, Daniela Molinari, Philip Bubeck
TOPIC 3

(12:50-13:00 - Catch-up time)

Mon 2 Nov | 11:30 – 13:00 | **S1.3** | PARALLEL SESSION I | **Wildfire Risk, Fire Weather and Land-Use Planning** | Conference hall

Chair: Alice Crespi, Eurac Research

2026-120
11:30 **The value of metastatistical approaches for characterizing wind extremes amplifying fire episodes in Italy**
Matteo PESCE, Ricerca sul Sistema Energetico - RSE S.p.A., Milan, Italy
Author(s): Matteo Pesce, Arianna Trevisiol, Pietro Devò (b,c), Marco Marani (c,d), Paola Faggian
TOPIC 1

2026-038
11:50 **Beyond the test set: Map-based evaluation of data-driven Fire Danger Index models**
Shahbaz ALVI, CMCC Foundation- Euro-Mediterranean Center on Climate Change, Lecce, Italy
Author(s): Shahbaz ALVI, Jose Maria Costa Saura, Italo Epicoco
TOPIC 2

2026-116
12:10 **When social research and fire modelling meet: a participatory planning framework for forests, agro-silvo-pastoral systems, and urban-rural and forest interface areas**
Alessio MENINI, Scuola Universitaria Superiore IUSS Pavia, Pavia, Italy | University of Sassari, Sassari, Italy | CMCC Foundation, Euro-Mediterranean Center on Climate Change, Sassari, Padova, Italy
Author(s): Alessio MENINI, Valentina Bacciu, Michela Bazzoni, Grazia Pellizzaro, Josè Costa Saura, Bachisio Arca, Pierpaolo Duce, Serena Marras, Donatella Spano, Costantino Sirca
TOPIC 2

2026-030
12:30 **Mapping and assessing obsolete ski infrastructures in the alps: A participatory approach to climate adaptation. Insights from the ReSkiLience project**
Agnese MORONI, Eurac Research, Bolzano, Italy
Author(s): Agnese MORONI, Andrea Omizzolo, Paola Menzardi
TOPIC 2

(12:50-13:00 - Catch-up time)

Mon 2 Nov	11:30 – 12:40	S1.4	PARALLEL SESSION I **AI, Data-Driven Frameworks and Digital Climate Services for Policy and Adaptation**	Room Seminar 7

Chair: Francesco Lucarelli, Eoliann

2026-004

11.30 **From Online Signals to Climate Action: An AI-Enabled Decision-Support Framework for Data-Driven Resilience Recommendations** — TOPIC 2
Dmitry EROKHIN, International Institute for Applied Systems Analysis, Laxenburg, Austria
Author(s): Dmitry Erokhin, Nadejda Komendantova .

2026-139

11.50 **The Sovereignty Question: Climate Services, AI, and European Digital Autonomy** — TOPIC 3
Marcello PETITTA, Department of Mathematics and Physics, Roma Tre University, Roma, Italy
Author(s): Matteo De Felice, Francesca Larosa, Sandro Calmanti, Marcello Petitta .

2026-174

12.10 **Valuation of climate services: insights and lessons learnt from the italian climate services landscape** — TOPIC 2
Francesca LAROSA, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Venice, Italy
Author(s): Larosa, F, Delpiazzo E., Calderaro, C., Mysiak, J. and Tornabene, S.

(12:30-12:40 - Catch-up time)

Mon 2 Nov	13:00 – 14:00		*Lunch*	Eurac Reseach Workspace

Mon 2 Nov	14:00 – 14:45	K1	KEYNOTE SPEECH **Elisa Morgera** UN Special Rapporteur on climate change	Room Auditorium & Webinar

Chair: Federica Cittadino, Eurac Research

Human rights as essential information, analysis and methodology for effective and fair climate science, action and resilience

The understanding of the human rights impacts of climate change, as well as of the negative human rights impacts of some climate response measures, is grounded in the lived experiences of the individuals, groups and people most disproportionately affected. Not only this understanding is essential for the prevention of foreseeable environmental and human rights harm in specific locations and for the most vulnerable, but it also offers indispensable insights for the protection of human rights globally and across generations in the context of climate change. In turn, the protection of human rights can help advancing and operationalizing climate science to support transformative decision-making at all levels, at the nexus with nature, water, food and health.

Elisa Morgera is UN Special Rapporteur on climate Change and Human Rights. She is a Professor of International Law and Sustainability at Durham University (UK) and Professor in International and EU Environmental Law at the University of Eastern Finland. Previously, she worked with the United Nations Food and Agriculture Organization in Italy and the United Nations Development Programme in Barbados; and continued to collaborate with the United Nations and other international organizations as consultant and independent expert. She advised governments and civil society in Africa, Asia, Europe, Latin America, the Caribbean, and the South Pacific.

HYBRID SESSION: It is possible to attend the session remotely.
https://www.sisclima.it/conferenza-annuale-2026/programme/hybrid-sessions/

Mon 2 Nov | 14:45 – 15:30 | **P1** | **Poster session 1** | Eurac Reseach Foyer

2026-025
Towards CMCC-regESM: a high-resolution regional Earth system model for the Mediterranean basin
Marco CHERICONI, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Bologna, Italy
Author(s): Marco Chericoni, Silvio Gualdi, Pier Giuseppe Fogli
TOPIC 1

2026-033
Comparative Analysis of EF2+ Tornado Environments in Mediterranean and Transitional European Climates
Aqsa MUHAMMADI, University of Salento, Lecce, Italy
Author(s): AQSA MUHAMMADI, Sławomir Sulik, Piero Lionello
TOPIC 1

2026-046
Trends in Precipitation Extremes over the Northwestern Black Sea Coast: Evidence from ERA5-Land Reanalysis (1991–2020)
Alina SEMERHEI-CHUMACHENKO, Odesa I.I. Mechnikov National University, Odesa, Ukraine
Author(s): Alina SEMERHEI-CHUMACHENKO, Inna Khomenko
TOPIC 1

2026-088
Trends of greenhouse gas concentration observations at two high mountain Italian sites
Mirsada CRAVERO, University of Torino, Torino, Italy
Author(s): Mirsada Cravero, Silvia Ferrarese, Francesco Apadula, Giulia Zazzeri, Paolo Cristofanelli, Davide Putero, Silvia Trini Castelli
TOPIC 1

2026-110
The impact of statistical downscaling and bias adjustment of regional climate models on hydrological simulations in the Adige river basin
Francesco TOLDO, University of Trento/Eurac Research, Trento/Bolzano, Italy
Author(s): FRANCESCO TOLDO, Michael Matiu, Filippo Di Marco, Diego Avesani, Bruno Majone
TOPIC 1

2026-111
Assessing the physical consistency of high-resolution meteorological fields obtained with Machine Learning Downscaling
Cristina IACOMINO, University of Trento | Fondazione Bruno Kessler, Trento, Italy
Author(s): Cristina IACOMINO (a, b), Elena Tomasi, Gabriele Franch, Giacomo Tomezzoli, Marco Cristoforetti, Simona Bordoni
TOPIC 1

2026-112
Climate change information for water resources: a focus on future drought conditions
Maria Vittoria STRUGLIA, ENEA, Rome, Italy
Author(s): Marta Antonelli, Alessandro Dell'Aquila, Sandro Calmanti, Maria Vittoria Struglia
TOPIC 1

2026-130
Hazard-oriented evaluation of convection-permitting climate simulations for the Alps
Elena MAINES, Eurac Research, Bolzano, Italy
Author(s): Elena Maines, Alice Crespi, Alexandre Dunant, Nikolina Ban, Andrea Andreoli, Massimiliano Pittore, Marc Zebisch
TOPIC 1

2026-143
Spatio-temporal variability of agricultural and natural ecosystems water demands in Alpine regions: insights from historical evapotranspiration and future land-use scenarios in South Tyrol (Italy)
Shebeshe Assefa HAILE, Faculty of Agricultural, Environmental and Food Sciences, Free University of Bozen-Bolzano, Bolzano (BZ), Italy
Author(s): Shebeshe Assefa Haile, Mirza Junaid Ahmad, Giovanni Peratoner, Leonardo Montagnani, Giacomo Bertoldi3, Stefano Terzi, Andrea Galletti, Camilla Wellstein
TOPIC 1

2026-048
Co-designing climate services for perennial agriculture using high-resolution DestinE climate information
Laura TRENTINI, Amigo srl, Rovereto, Italy
Author(s): Laura Trentini, Giulia Maggioni, Sara Dal Gesso, Marco Venturini, Juha Aalto, Costanza Bartucca, Andrea Berti, Jørn Kristianen, Joonas Kolstela, Gianluigi Liberti, Gabriele Moser, Suraj Polade, Roberto Vendi
TOPIC 2

2026-065
Regionalising Water Vulnerability: A Downscaling Framework for CSRD Reporting in the South-Eastern Alps
Anna BALDO, EcamRicert S.R.L., Monte di Malo, Italy
Author(s): Anna Baldo, Lucia Raffaelli, Michele Milan
TOPIC 2

2026-061
Extreme Heat Does Not Always Intensify Surface Urban Heat Islands: Evidence from Italian Regional Capitals
Francesca MARTINELLI, University of Salento, Lecce, Italy
Author(s): Antonio Esposito, Francesca Martinelli, Riccardo Buccolieri, Gianluca Pappaccogli
TOPIC 2

2026-128
A Multidimensional Assessment of Meteorological, Hydrological, Agricultural, and Socioeconomic Drought in Africa
Roshanak TOOTOONCHI, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Milan, Italy
Author(s): Roshanak Tootoonchi, Andrea Castelletti
TOPIC 2

2026-028
Strengthening Resilience to CC Impacts in Snow-Dependent Mountain Destinations: Results from the BeyondSnow Project
Agnese MORONI, Eurac Research, Bolzano, Italy
Author(s): Philipp CORRADINI, Agnese Moroni, Andrea Omizzolo
TOPIC 2

2026-105
ClimaaxNext: a new community model for local and regional climate risk assessment
Silvia TORRESAN, CMCC Foundation, Venice, Italy
Author(s): Silvia Torresan, Jaroslav Mysiak, Stefania Gottardo, Irene Carrión Álvarez, Ghazal Etminan, Cédric Hananel, Stefan Hochrainer-Stigler, Thomas Koetz, Maurizio Mazzoleni, Frederiek Sperna Weiland, Fredrik Wetterhall
TOPIC 2

2026-029
Enhancing safety and quality of life in rural settlements: new tools for climate adaptation. First results from the REHOME project
Andrea OMIZZOLO, Eurac Research, Bolzano, Italy
Author(s): Andrea Omizzolo, Agnese Moroni
TOPIC 2

2026-070
Water Conflicts and the Governance of Scarcity: Initial Findings from a National Dataset
Margherita ANDREAGGI, CIMA Research Foundation, Savona, Italy
Author(s): Francesca Munerol, Giulia Briano, Margherita Andreaggi
TOPIC 3

Mon 2 Nov	15:30 – 15:50		Tea break	Eurac Reseach Workspace

Mon 2 Nov | 15:50 - 17:20 | **S2.1**

SIDE EVENT CLIMA E GOVERNANCE | THEMATIC SESSION

Integrazione tra scienza e governance per la resilienza climatica: esperienze di pianificazione regionale dell'adattamento in Italia

Room Auditorium & Webinar

Chair: Stefano Micheletti, ARPAV

La sessione esplora il rapporto tra scienza del clima, governance e pianificazione dell'adattamento climatico a scala regionale attraverso il racconto delle esperienze concrete di alcune pubbliche amministrazioni regionali e provinciali italiane. I contributi affrontano diversi temi all'interfaccia tra conoscenza scientifica e processi decisionali: dalla produzione di proiezioni climatiche, alla valutazione di impatti e rischi multi-settoriali, ai processi di partecipazione, fino ai meccanismi istituzionali attraverso i quali le evidenze scientifiche vengono tradotte in strategie e strumenti di pianificazione di livello regionale o provinciale. Il confronto tra diversi approcci ed esperienze territoriali intende favorire lo scambio di conoscenze e buone pratiche, mettendo in luce opportunità, criticità e condizioni abilitanti per una pianificazione dell'adattamento più efficace e più robustamente informata dalla conoscenza scientifica disponibile e dai risultati dei processi di coinvolgimento locale.

Questa sessione è APERTA al pubblico.
È anche una SESSIONE IBRIDA: è possibile seguire la sessione da remoto.
https://www.sisclima.it/conferenza-annuale-2026/side-events/side-event-clima-e-governance/

2026-049
15.50 **Dalla conoscenza all'azione: lo sviluppo della Strategia di adattamento del Trentino attraverso analisi di rischio climatico partecipative e il coinvolgimento dei portatori di interesse locali** — TOPIC 2
Lavinia LAITI, APPA, Provincia autonoma di Trento, Trento, Italy
Autori: Lavinia LAITI, Roberto Barbiero

2026-094
16.05 **Integrare scienza e governance per la resilienza climatica: il percorso della Regione Autonoma Friuli Venezia Giulia verso la Strategia e il Piano regionale di mitigazione e adattamento ai cambiamenti climatici** — TOPIC 2
Nicolò TUDOROV, Autonomous Region Friuli Venezia Giulia, Central Directorate for environmental protection, energy and sustainable development, Trieste, Italy
Autori: Nicolò TUDOROV, Federica Flapp, Valentina Gallina, Stefania Masuino, Elissa Nigli, Lucrezia Pacorini

2026-037
16.20 **HeatIslands Adapt: sviluppare insieme servizi climatici transfrontalieri per l'adattamento al caldo urbano** — TOPIC 2
Valentina GALLINA, ARPA FVG, Palmanova, Italy
Autori: Valentina Gallina, Stefania Catano, Katja Kozjek Mihelec, Neža Lokošek, Gregor Vertačnik, Rita Nogherotto, Arturo Pucillo, Andrea Cicogna, Luka Honzak

2026-129
16.35 **Regionalizzazione statistica delle proiezioni climatiche in Emilia-Romagna per l'aggiornamento della Strategia di Mitigazione e Adattamento** — TOPIC 1
Rodica TOMOZEIU, ARPAE-SIMC Emilia-Romagna, Bologna, Italy
Autori: Rodica Tomozeiu, Valentina Pavan, Gabriele Antolini, Caterina Toscano, Cinzia Alessandrini

2026-164
16.50 **Piattaforma Clima Nord-Est: un servizio climatico pubblico a riuso per il quadro climatico regionale a supporto delle politiche locali di adattamento** — TOPIC 2
Giovanni MASSARO, Città di Venezia, Italy
Autori: Giovanni Massaro, Lavinia Laiti, Valentina Gallina, Fabio Zecchini, Mauro Valt, Francesco Rech, Roberto Barbiero, Andrea Cicogna, Arturo Pucillo, Stefano Micheletti

(17:05-17:20 - Catch-up time)

Mon 2 Nov	15:50 - 17:20	**S2.2**	PARALLEL SESSION 2 **Economics of Climate Change and Carbon Markets**	Room Seminar 1+2+3

Chair: Stefan Hochrainer-Stigler, IIASA - International Institute for Applied Systems Analysis (TBC)

2026-001
15:50 **Assessing the effect of European climate policy in a panel setting: A Functional principal component analysis model using weekly EU ETS Data over 2005-2023**
Massimiliano MAZZANTI, University of Ferrara, Ferrara, ITALY
Author(s): Massimiliano Mazzanti, Antonio Musolesi, Hervè Cardot
TOPIC 3

2026-022
16:10 **Structuring effective climate change agreements through perfect procedures: an experimental approach**
Klaudijo KLASER, University of Trento, Trento, Italy
Author(s): Klaudijo Klaser
TOPIC 3

2026-042
16:30 **Assessing the climatic impacts of a hydrogen economy: preliminary results from the HYDRA Project.**
Emanuele DI CARLO, CNR-ISAC, Bologna, Italy
Author(s): Emanuele DI CARLO, Alessio Bellucci, Federico Fabiano, Ye Wang, Oliver Wild, Xuewei Hou, Ryan Hossaini, Susanna Corti, Virna Meccia, Claudia Simolo
TOPIC 4

2026-027
16:50 **Fashion and Plastics: Sustainable Fashion to tackle climate change**
Alessia VACCA, University of Lincoln, Lincoln, United Kingdom
Author(s): Alessia Vacca
TOPIC 3

(17:10-17:20 - Catch-up time)

Mon 2 Nov	15:50 - 17:20	**S2.3**	PARALLEL SESSION 2 **Climate Risk Assessment and Early Warning Tools I**	Conference hall

Chair: Guilherme Samprogna Mohor, University of Potsdam

2026-148
15:50 **Toward a Digital Twin for Climate Adaptation Mainstreaming: A Climate-resilient Planning Support System for Public Administrations**
Stella PENNINO, University of Naples Federico II, Naples, Italy
Author(s): Stella Pennino
TOPIC 2

2026-032
16:10 **Analysing cascading climate risks across natural and socio-economic systems: lessons learned from the climate change adaptation process in the Friuli Venezia Giulia Region (Italy).**
Silvia COCUCCIONI, Eurac Research, Bolzano, Italy
Author(s): Massimiliano Pittore, SILVIA COCUCCIONI, Elena Lorenzoni, Chiara Mioni, Elisa Ravazzoli
TOPIC 2

2026-141
16:30 **Multi-hazard susceptibility mapping reveals priority areas for early warning system deployment: A European exposure analysis**
Jacopo FURLANETTO, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Venice, Italy
Author(s): Timothy Tiggeloven, Jeremy Palmerio, Davide Mauro Ferrario, Michele Ronco, Edoardo Albergo, Jacopo Furlanetto, Philip J. Ward, Silvia Torresan
TOPIC 2

2026-069
16:50 **'ARCA-PA': an operational tool for Climate Risk Assessment and Adaptation in Public Real Estate Assets**
Matteo MARIOTTI, Agenzia del Demanio, Roma, Italy
Author(s): Gianluca CAPRI, Matteo MARIOTTI, Paola MERCOGLIANO, Carmela APREDA, Guglielmo RICCIARDI, Giuliana BARBATO, Alessandro BONFIGLIO
TOPIC 2

(17:10-17:20 - Catch-up time)

Mon 2 Nov | 15:50 - 17:20 | **S2.4** | PARALLEL SESSION 2 | **Climate Modelling and Downscaling I: AI and Statistical Approaches** | Room Seminar 7

Chair: Paola Faggian, RSE S.p.A.

15:50 **High-resolution climate projections via a Latent Diffusion Model: Emulating dynamical downscaling over Italy with Deep Learning** 2026-092 TOPIC 1
Giacomo TOMEZZOLI, Fondazione Bruno Kessler, Trento, Italy
Author(s): Giacomo Tomezzoli, Elena Tomasi, Gabriele Franch, Sandro Calmanti, Marco Cristoforetti

16:10 **Spatial Resolution gains in kilometer-scale CMIP6 downscaling of wind and precipitation over the Alpine region** 2026-132 TOPIC 1
Alejandro VICHOT-LLANO, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Caserta, Italy
Author(s): Alejandro Vichot Llano, Mario Raffa, Stefania Oliva, Angelo Campanale, Massimo Muraro, Gabriella Ceci, Stefano Bande, Paola Mercogliano

16:30 **Waiting for Quantum computing in climate: A physicist's guide to false hope** 2026-102 TOPIC 1
Marcello PETITTA, Department of Mathematics and Physics, Roma Tre University., Roma, Italy
Author(s): Marcello Petitta, Ludovica Perilli

16:50 **The role of urban parameterization detail in simulating urban microclimate: a WRF-based study over Milan (Italy)** 2026-108 TOPIC 1
Francesca MARTINELLI, University of Salento, Lecce, Italy
Author(s): Francesca Martinelli, Domenico Toscano, Guido Pirovano, Riccardo Buccolieri, Gianluca Pappaccogli

(17:10-17:20 - Catch-up time)

Mon 2 Nov | 17:45 - 18:45 | SIDE EVENT (in Italian) | **Clima da leggere** | Libreria Cappelli

CLIMA DA LEGGERE - Storie e territori del cambiamento climatico
Lunedì 2 Novembre | 17:45-18:45 | Libreria Cappelli
Speaker: Elisabetta Dall'O', Il cambiamento in-visibile
Moderazione: Marcello Petitta

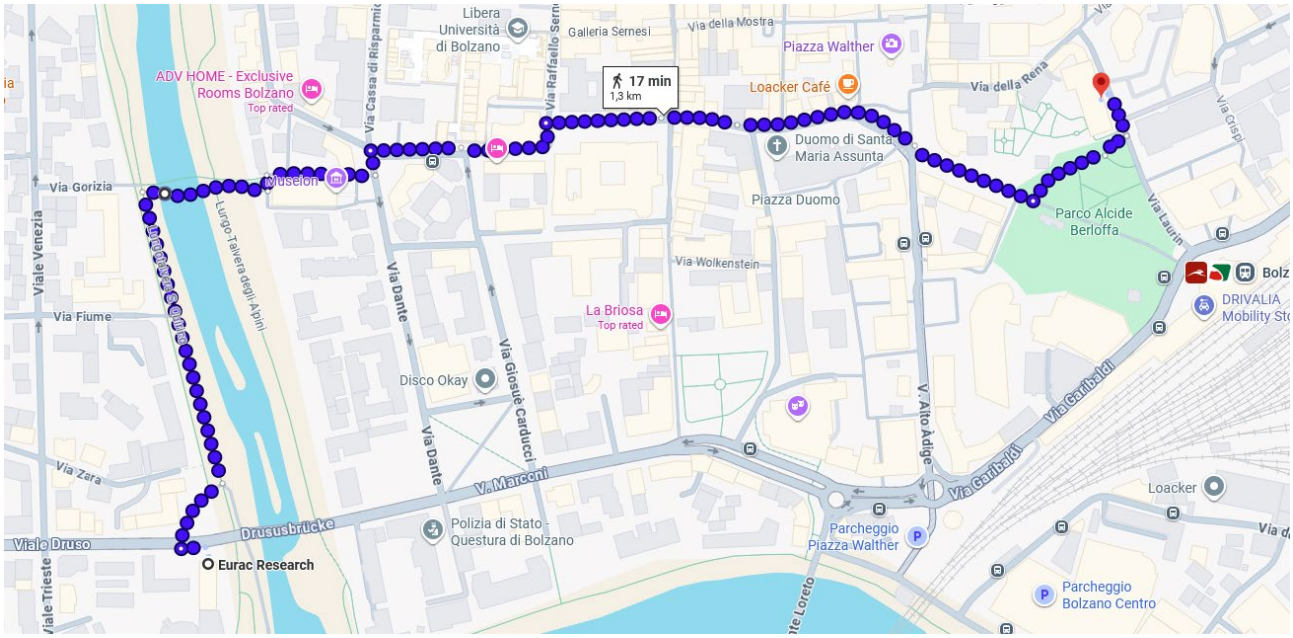
Libreria Cappelli, Corso della Libertà 2, 39100 Bolzano BZ

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza.
Maggiori informazioni:
https://www.sisclima.it/conferenza-annuale-2026/side-events/side-event-clima-da-leggere/

Mon **2** Nov	20:00	🍽	Social Dinner	Parkhotel Laurin

The Social dinner will be held at:

📍 Parkhotel Laurin, Via Laurin 4, 39100 Bolzano BZ



Day 2 | Tuesday 3 November 2026

Tue 3 Nov	7:00 – 8:00		5k at dawn in Bolzano	Meeting point to be announced

A non-competitive walk/run around Bolzano.
*If you are interested in participating, join the **WhatsApp group** to coordinate with each other.*

Tue 3 Nov	8:30 – 9:00		Registration of participants Pick your badge!	Eurac Reseach Main Entrance

Tue 3 Nov	9:00 – 10:10	**S3.1**	PARALLEL SESSION 3 **Drought, Water Scarcity and Resource Management**	Room Auditotium

Chair: Piero Lionello, Università del Salento

9.00 **A Multi-Hazard Climate Service Integrating the Catalogues of Extreme Events and Impacts** 2026-118 TOPIC 1
Alessandro PUGLIESE, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Caserta, Italy
Author(s): Alessandro Pugliese, Giuliana Barbato, Alessandro Bonfiglio, Jonathan Spinoni, Giulio Verazzo, Alfredo Reder, Nunzia Letizia, Paola Mercogliano

9.20 **Building climate-resilient water and soil management in agriculture: insights from the Alto Garda living lab (Italy)** 2026-059 TOPIC 4
Damiano ZANOTELLI, Free University of Bolzano-Bozen, Bolzano, Italy
Author(s): Damiano ZANOTELLI, Antonio Sebastiani, Giorgia Robbiati

9.40 **Assessing hydroclimatic changes under AMOC weakening scenarios in Europe: the role of atmospheric blocking in shaping precipitation and temperature responses** 2026-073 TOPIC 1
Amanda MONTANARO, Politecnico di Milano, Milano, Italy
Author(s): Amanda MONTANARO, Elisa Maëlle Michiels, Andrea Ficchì, Danila Volpi, Andrea Toreti, Andrea Castelletti

(10:00-10:10 - Catch-up time)

Tue 3 Nov | 9:00 – 10:30 | **S3.2** | PARALLEL SESSION 3 | **Urban Heat Islands, Thermal Comfort and Building Energy Demand** | Room Seminar 1+2+3

Chair: Valentina Gallina, ARPA FVG

2026-082
9.00 **City buses as a Mobile Weather Network: measuring urban climate at meter scale with MeteoTracker across urban environments**
Juri IURATO, Iotopon srl, Cagliari, Italy
Author(s): Juri Iurato, Timoteo Galia
TOPIC 2

2026-150
9:20 **Preliminary Multiscale Framework for Urban Heat Hotspot Identification and Nature Based Solution Assessment: A Case Study of Rome**
Davide MORALE, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Caserta, Italy
Author(s): Davide Morale, Ugo Falchi, Paola Mercogliano, Claudio Parente, Stella Tsoka
TOPIC 2

2026-158
9:40 **Shifting Seasons and Amplified Extremes: Climatological Analysis of the Record-Breaking May 2026 Heatwave in Turin through a Homogeneous Urban Series (1992–2026)**
Claudio CASSARDO, University of Turin, Turin, Italy
Author(s): Claudio CASSARDO, Davide Bertoni, Massimiliano Manfrin
TOPIC 1

2026-066
10:00 **Assessing climate change impacts on thermal comfort and energy demand in Milan uising MLUCM BEP+BEM**
Gianluca PAPPACCOGLI, University of Salento, Lecce, Italy
Author(s): Gianluca PAPPACCOGLI, Andrea Zonato, Alberto Martilli, Riccardo Buccolieri, Piero Lionello, Antonio Esposito
TOPIC 2

(10:20-10:30 - Catch-up time)

Tue 3 Nov | 9:00 – 10:10 | **S3.3** | PARALLEL SESSION 3 | **Climate Governance II: Institutions, Policy Coherence and Adaptation Planning** | Conference hall

Chair: Elisa Ravazzoli, Eurac Research

2026-119
9.00 **Governance conditions for transformative adaptation: preliminary reflections from three EU Mission on Adaptation projects**
Fulvio BIDDAU, Euro-Mediterranean Center on Climate Change, Venice, Italy
Author(s): Sara Tornabene, Fulvio Biddau, Jaroslav Mysiak
TOPIC 3

2026-040
9.20 **Supporting the Adaptation Strategy of the Autonomous Province of Trento: Building the Scientific Knowledge Basis**
Anna NAPOLI, C3A and University of Trento, Trento, Italy
Author(s): Anna Napoli, Michael Matiu, Lavinia Laiti, Roberto Barbiero, Alberto Bellin, Dino Zardi, Bruno Majone
TOPIC 2

2026-145
9.40 **Operational Mainstreaming of Climate Adaptation in Sub-National Governance: Evidence from Regional Governance Systems across Planning, Water, and Health Sectors**
Aurora NURCE, Università degli Studi di Milano Bicocca, Milano, Italy
Author(s): Aurora Nurce, Monica Bernardi, Ketrina Cabiri Mijo
TOPIC 2

(10:00-10:10 - Catch-up time)

Tue 3 Nov	9:00 – 10:30	S3.4	PARALLEL SESSION 3 **Climate Modelling and Downscaling II: Mesoscale and Regional Processes**	Room Seminar 7

Chair: Sandro Calmanti, ENEA

9:00 **AlpTherm3d – a convection model for assessing transport of pollutants in mountainous areas.** 2026-159 TOPIC 1
Bruno NEININGER, MetAir AG, Menzingen, Switzerland
Author(s): BRUNO NEININGER, Stefania Gilardoni

9:20 **Quasi-stationary deep convective systems in the Central Apennines region: evaluating the role of moisture gradients and their detection through an integrated mesoscale meteorological network** 2026-071 TOPIC 1
Lorenzo SILVESTRI, Department of Physics and Geology, University of Perugia, Perugia, Italy
Author(s): Lorenzo SILVESTRI, Paolina Bongioannini Cerlini

9:40 **MedHEX: understanding extreme events in the Mediterranean from atmospheric and oceanic heat budgets and transports** 2026-057 TOPIC 1
Valerio LEMBO, CNR-ISAC, Rome, Italy
Author(s): Valerio Lembo, Simona Bordoni, Alessio Bellucci, Subodh Kumar (b,a), Aston M. Nyongesa (b,a)

10:00 **From incremental protection to transformational adaptation: sea-level-rise pathways for Venice and its lagoon** 2026-081 TOPIC 2
Piero LIONELLO, University of Salento, Lecce, Italy
Author(s): Piero LIONELLO, Valeria Di Fant(b,c), Ulysse Pasquier, Luigi Tosi, Gonéri Le Cozannet, Robert J. Nicholls(d,g), Wolfgang Cramer, Roger Cremades, Carlo Giupponi, Jochen Hinkel, Adriano Sfriso, Pietro Teatini, Athanasios T. Vafeidis(o), Georg Umgiesser, Marjolijn

(10:20-10:30 - Catch-up time)

Tue 3 Nov	10:30 – 11:00		Coffee break	Eurac Reseach Workspace

Tue 3 Nov | 11:00 – 13:00 | **S4.1** | THEMATIC SESSION | Room Auditorium

Droughts in Mountain Regions: Processes, Impacts, Risk and Adaptation Strategies

Chair: Stefano Terzi, Eurac Research, Bolzano, Italy

Mountain regions are increasingly exposed to droughts with significant consequences for both bio-physical processes and socio-economic systems. Reduced water availability in upstream areas not only alters local hydrological and ecological processes but also propagates downstream, affecting regions that greatly rely on upstream-generated water resources. These include agricultural production, freshwater ecosystems, local livelihoods, hydropower generation, river transport, tourism, and regional economies. Despite international recognition, current drought assessments across multiple sectors continue to face significant challenges in mountain areas. For this reason, this thematic session aims to advance scientific discussion on drought processes, impacts and risks across sectors and ecosystems as well as adaptation strategies.
The session is organized within the framework of the Working Group on Drought in Mountain Regions, which is an international network within the IAHS (International Association of Hydrological Sciences) HELPING (Hydrology Engaging Local People IN one Global world) decade that advances research and stakeholder engagement on drought processes, impacts, risks, and adaptation strategies in mountain regions worldwide.

2026-127
11:00 **Leveraging textual data for mapping drought impacts in Italy**
Alessandra POMELLA, Eurac Research, Bolzano, Italy
Author(s): Alessandra Pomella, Jennifer-Carmen Frey, Piero Campalani, Andrea Vianello, Thomas Iacopino, Massimiliano Pittore, Stefano Terzi
TOPIC 2

2026-138
11:20 **When rising tourism meets falling water: two decoupled drivers of summer socioeconomic drought in South Tyrol**
Hamidreza MOHAMMADI, EURAC Research, Center for Climate Change and Transformation, Bolzano, Italy
Author(s): Hamidreza MOHAMMADI, Stefano Terzi, Massimiliano Pittore, Giorgio Boni
TOPIC 2

2026-170
11:40 **Beyond trends: Reading Alpine drought regimes from precipitation to streamflow through the Cumulative Deviation from Normal**
Arianna DI PAOLA, Institute for BioEconomy, National Research Council, Rome, Italy
Author(s): Arianna DI PAOLA, Massimiliano Pasqui, Ramona Magno, Sara Quaresima, Leandro Rocchi, Edmondo Di Giuseppe
TOPIC 2

2026-171
12:00 **Disentangle snow-rainfall dynamics of droughts and their large-scale atmospheric drivers**
Ramona MAGNO, Institute for BioEconomy, National Research Council, Florence, Italy
Author(s): Ramona MAGNO, Massimiliano Pasqui, Arianna Di Paola, Francesco Avanzi, Edoardo Cremonese, Edmondo Di Giuseppe, Martina Leone, Clara Manganaro, Leandro Rocchi, Sara Quaresima
TOPIC 2

2026-172
12.20 **Drought Central: Turning Drought Information into Actionable Knowledge**
Massimiliano PASQUI, Institute for BioEconomy, National Research Council, Florence, Italy
Author(s): Massimiliano Pasqui, Arianna Di Paola, Ramona Magno, Sara Quaresima, Leandro Rocchi, Edmondo Di Giuseppe
TOPIC 2

(12:40-13:00 - Catch-up time)

Tue 3 Nov | 11:00 – 12:30 | S4.2 | PARALLEL SESSION 4 | Extreme Precipitation I: Trends, Projections and Flood Risk | Room Seminar 1+2+3

Chair: Silvia Torresan, CMCC Foundation - Euro-Mediterranean Center on Climate Change

2026-156
11:00 **Understanding the observed changes in High-Impact Precipitation Events across the European Alps (1961-2022)**
Bhumi GAGNANI, Eurac Research, Bolzano, Italy
Author(s): Bhumi GAGNANI, Alice Crespi, Marc Lemus i Cánovas
TOPIC 1

2026-095
11:20 **Projected seasonal changes in sub-daily precipitation extremes in the Great Alpine Region**
Eleonora DALLAN, Department of Land Environment Agriculture and Forestry, University of Padova, Padova, Italy
Author(s): Eleonora Dallan, Marco Borga
TOPIC 1

2026-090
11:40 **Sub-hourly temporal downscaling of rainfall timeseries using transformer-based deep learning**
Adriana TORELLI, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Italy
Author(s): Adriana TORELLI, Shahbaz Alvi, Manuela Balzarolo, Guido Rianna, Paola Nassisi, Italo Epicoco
TOPIC 1

2026-154
12:00 **Spatially Explicit Microbial Flood Risk Under Climate Change: An Integrated Modelling Framework for Urban River Corridors**
Rahul DEOPA, Indian Institute of Technology Rookree, Roorkee, India
Author(s): Rahul Deopa, Mohit Prakash Mohanty
TOPIC 2

(12:20-12:30 - Catch-up time)

Tue 3 Nov | 11:00 – 12:30 | S4.3 | PARALLEL SESSION 4 | Climate Variability, Paleoclimate, Cascading Hazards and Resilience | Conference Hall

Chair: Marcello PETITTA, Roma Tre University

2026-080
11:00 **Future shallow landslide hazard under high-resolution climate scenarios: a case study for Italy**
Sandro CALMANTI, ENEA, Roma, Italy
Author(s): Sandro CALMANTI, Luca Maria Falconi, Lorenzo Moretti, Elena Tomasi, Paolo Stocchi
TOPIC 1

2026-023
11:20 **Fostering coastal resilience in Europe using climate litigation as an empowering legal tool: a toolkit for the civil society in coastal areas**
Elisa FIORINI BECKHAUSER, Euro-Mediterranean Center on Climate Change, Lecce, Italy
Author(s): Giulia GALLUCCIO, Elisa FIORINI BECKHAUSER, Mathilde Luna JOLY
TOPIC 3

2026-085
11:40 **Dynamics of Community Resilience: A global empirical study using a standardized assessment framework**
Stefan HOCHRAINER-STIGLER, IIASA-International Institute for Applied Systems Analysis, Laxenburg, Austria
Author(s): Stefan Hochrainer-Stigler, Adriana Keating, Stefan Velev, Dipesh Chapagain, Jung-Hee Hyun, Raquel Guimaraes, Romain Clercq-Roques, Reinhard Mechler
TOPIC 2

2026-163
12:00 **Rescuing Italy's Meteorological Heritage: Recent AISAM Initiatives for the Recovery and Digitization of Historical Climate Records**
Alessandro CEPPI, Università Pegaso, Naples, Italy
Author(s): Alessandro CEPPI, Bruno Arcuri, Michele Brunetti, Sebastiano Carpentari, Maurizio Maugeri(b,c), Davide Nicoli, Sergio Pisani, Alessia Tadiello, Dino Zardi, Veronica Manara
TOPIC 1

(12:20-12:30 - Catch-up time)

Tue 3 Nov	11:00 – 13:00	S4.4	PARALLEL SESSION 4 **Participatory Adaptation and Climate Communication: Co-design, Community Engagement and Pathways**	Room Seminar 7

Chair: Luca Cetara, Eurac Research

11:00 **Building a Culture of Climate Risk through Civic Engagement: Insights from the Interreg Europe CLIMATE Project and the Lombardy Regional Stakeholder Process** 2026-142 TOPIC 3
Simone PICCO, Lombardy Foundation for the Environment, Robbiate, Italy
Author(s): Simone Picco, Gian Luca Gurrieri, Marco Pregnolato, Mita Lapi, Antonio Ballarin Denti, Stefania Fontana

11:20 **From climate risk assessment to adaptation pathways: managing water scarcity and hydropower trade-offs in an Alpine region** 2026-140 TOPIC 2
Giorgia ROBBIATI, Consorzio dei Comuni B.I.M. SarcaMincio-Garda, Tione di Trento, Italy
Author(s): Valentina D'Alonzo, Giorgia Robbiati, Silvia Cocuccioni, Sebastiano Carrer, Chiara Castellani, Elisa Andreoli

11:40 **Effective participation: A systematic review and empirical validation of dimensions and tools for monitoring and evaluating community-based adaptation processes** 2026-113 TOPIC 3
Monica ABRAM, Eurac Research, Center for Climate Change and Transformation, Bolzano/Bozen, Italy
Author(s): Monica ABRAM, Elisa Ravazzoli, Federica Maino

12:00 **Building Community Resilience Through Climate Education: The Experiences of "Arte e Ambiente" and the Erasmus VET EDU_Climate Program in Adaptation Capacity Building** 2026-155 TOPIC 2
Domenico VITO, Fondazione Lombardia per l'ambiente, Milan, Italy
Author(s): Domenico Vito, Mita Lapi, Stefania Fontana, Antonio Ballarin Denti

12:20 hh.mm **Fondazione Cariplo's commitment on climate change** TOPIC 3
Federico BEFFA, Fondazione Cariplo, Milano, Italy
Author(s): Federico Beffa

(12:40-12:50 - Catch-up time)

Tue 3 Nov	13:00 – 13:50		*Lunch*	Eurac Reseach Workspace

Tue 3 Nov	13:50 – 14:00		***Group Photo*** *Be ready with your best smile for the group photo!*	Eurac Reseach Workspace

Tue 3 Nov	14:00 – 14:45	K2	KEYNOTE SPEECH **Marco Marani** University of Padova	Room Auditorium & Webinar

Chair: Piero Lionello, University of Salento

The future ain't what it used to be: extreme event estimation for water science and engineering under climate change

Extreme events are involved in questions that are central to water science and engineering as well as to adaptation to a changing climate. Extreme rainfall, floods, and droughts are familiar examples of phenomena that require accurate estimates of event magnitudes and frequency of occurrence that are most often based on short records. For example, in designing risk-reduction infrastructures, we frequently need to estimate the probability of unprecedented events, which are not even contained in the observational record. In climate change studies we need to estimate the probability of future extremes based on short climate model runs (order of 10 years in the case of high-resolution Convection Permitting Models). In all these cases we need statistical models that make effective use of the available information. Traditional extreme value theory, using only yearly maxima or a few events above a high threshold every year, is known to waste much of the available information. Recently, a non asymptotic theory of extremes has been formulated and implemented that allows using most of the data at hand and significantly improves our ability to estimate large extremes. This non-asymptotic approach, in the form of the Metastatistical Extreme Value Distribution (MEVD), is shown to provide benefits in applications to observed and projected rainfall, from the hourly to the daily scales, floods, droughts, storm surges, atlantic hurricanes.

Marco Marani is Full Professor of hydrology at the ICEA Department of the University of Padua. Founding Director of the Research Center on Climate Change Impacts and of the Master's Degree in Hydrogeological Risk Engineering. Since 2025 he has been a Fellow of the American Geophysical Union. His research focuses on climate change, the hydrological cycle, geomorphology, remote sensing. He is the author of more than 150 scientific publications.

HYBRID SESSION: It is possible to attend the session remotely.
https://www.sisclima.it/conferenza-annuale-2026/programme/hybrid-sessions/

Tue 3 Nov	14:45 – 15:55	S 5.1	PARALLEL SESSION **Climate Adaptation Across Sectors: Infrastructure, Heritage, Business and Energy**	Room Auditorioum

Chair: Marco Pregnolato, Fondazione Lombardia per l'Ambiente

14:45 **Rethinking airports' climate adaptation** — 2026-077 — TOPIC 2
Asimina VOSKAKI, Independent Researcher and Environmental Regulator, Crawley, United Kingdom
Author(s): Asimina Voskaki

15:05 **Bridging climate science and engineering practice for climate-proof infrastructure design** — 2026-107 — TOPIC 2
Alfredo REDER, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Caserta, Italy
Author(s): Alfredo Reder, Marianna Brichese, Luz Adriana Gómez Mogollón, Mattia Scalas, Gabriele Miceli, Paola Mercogliano, Federico Foria

15:25 **Has any company yet fully internalised physical climate risk? Exploring the missing link between climate risk assessment and organisational resilience** — 2026-125 — TOPIC 2
Phoebe ROSS, ERM, London, UK
Author(s): James Hubbard, Phoebe Ross

(15:45-15:55 - Catch-up time)

Tue 3 Nov | 14:45 – 15:55 | **S 5.2** | THEMATIC SESSION | Room Seminar 1+2+3

Building Heat Tolerance in Vulnerable Populations for the Benefit of Society: Active Mobility, Routing and Digital Health

Chair: Lisa Brandhuber, Trafficon Software GmbH

Heat waves are among the most critical and rapidly intensifying climate risks in Europe, and health-vulnerable groups are particularly exposed. Traditional adaptation measures often focus on avoiding physical exertion during heat, but this can reinforce sedentary lifestyles that are themselves a core driver of vulnerability. At the same time, there is evidence that structured physical activity in warm conditions can improve heat tolerance, yet its safe application in vulnerable groups remains poorly understood. This thematic session is motivated by the need to bridge the gap between risk avoidance and building heat tolerance. It uses the KlimaFIT project as a testbed for integrating three key dimensions: robust methods to measure and track heat tolerance in vulnerable people; mobility and routing approaches that combine active travel with health and climate considerations; and digital health solutions that provide personalized, context-aware guidance through nudging, gamification and rehabilitation-oriented interventions. By bringing these strands together, the session contributes concrete, practice-oriented insights on how to strengthen societal responses to heat in a way that is medically sound, mobility-aware and digitally supported, aligning closely with the SISC 2026 focus on interconnected climate challenges and effective, equitable responses.

2026-072

14:45 **Measuring Heat Tolerance in Patients and Vulnerable People: A Scoping Review**
Fabian LEINAUER, Paracelsus Medical Private University, Institute of Molecular Sports Medicine and Rehabilitation at the Institute of Sports Medicine, Prevention and Rehabilitation, Salzburg, Austria
Author(s): Fabian Lukas Leinauer, Daniela Huber, Johanna Schauer-Berg, Hans-Peter Wiesinger, Emanuele Zanardo, Gunnar Treff
TOPIC 2

2026-075

15:05 **Data-based situation-awareness for personalised heat adaptation strategies**
Martin LOIDL, University of Salzburg, Salzburg, Austria
Author(s): Christian Werner, Martin Loidl
TOPIC 2

2026-087

15:25 **KlimaAktivplan: Personalised Digital Health Application for Heat Tolerance and Active Mobility**
Daria KOLOSOVSKAIA, Ludwig Boltzmann Institute for Digital Health and Prevention, Salzburg, Austria
Author(s): Daria Kolosovskaia, Fabian Leinauer, Günther Innerebner, Daniela Wurhofer
TOPIC 3

(15:45-15:55 - Catch-up time)

Tue 3 Nov | 14:45 – 15:55 | **S 5.3** | PARALLEL SESSION | Conference hall

Sustainable Innovation in Energy Systems and Low-Carbon Transition

Chair: Emanuele Di Carlo, CNR-ISAC

2026-153

14:45 **Renewable Energy Communities as Drivers of Democratic Energy Transition and Low-Carbon Innovation**
Domenico VITO, Fondazione Lombardia per L'Ambiente, Milan, Italy
Author(s): Domenico Vito, Mita Lapi, Stefania Fontana, Antonio Ballarin Denti, Vincenzo de Palo, Luca Cetara
TOPIC 4

2026-052

15:05 **Forest Biomass for Climate Mitigation? Modelling the Trade-Off Between Wood Energy Supply and Forest Carbon Sink in Italy**
Giorgio VACCHIANO, Università degli Studi di Milano, Milano, Italy
Author(s): Giorgio Vacchiano, Roberto Pilli, Arianna Trevisiol, Ramoon Barros Lovate Temporim
TOPIC 2

2026-056

15:25 **Integrating Cultural Ecosystem Service Values into European Forest Scenario Modelling: A Soft-Linking Framework between ForestSense and GLOBIOM**
Melania MICHETTI, ENEA, Bologna, Italy
Author(s): MELANIA MICHETTI, Fabio Eboli,Andrey Lessa Derci Augustynczik, Fulvio Di Fulvio
TOPIC 4

(15:45-15:55 - Catch-up time)

Tue 3 Nov	14:45 – 15:55	S 5.4	Climate Risk Assessment and Early Warning Tools II	Room Seminar 7

Chair: Eleonora Dallan, University of Padova

14:45 **Performance of Convection-Permitting Model ensemble in Reproducing Precipitation Extremes in Alta Valtellina** 2026-067 TOPIC 1
Muhammad Nasir IMAM, University School for Advanced Studies (IUSS), Pavia, Italy
Author(s): Muhammad Nasir IMAM, Francesco Dottori, Marcello Arosio, Giorgia Fosser

15:05 **Integrating Climate and Disaster Risk Assessment for Mediterranean Hurricanes: A Synthetic-Track Approach to Future Precipitation Hazard** 2026-053 TOPIC 2
Paolina BONGIOANNINI CERLINI, University of Perugia, Perugia, Italy
Author(s): Miriam Saraceni, Lorenzo Silvestri,Paolina BONGIOANNINI CERLINI, Romu Romero, Kerry Emanuel

15:25 **Integrating Network Science, Agent-Based Modelling and AI for Resilience stress tests under High-Impact Low-Probability Events: A Case Study in Venice Metropolitan City** 2026-109 TOPIC 2
Silvia TORRESAN, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Venice, Italy
Author(s): Davide Mauro Ferrario, Margherita Maraschini, Samuele Casagrande, Francesco Maria D'Antiga, Saman Ghaffarian, Gianluca Pescaroli, Jose Palma-Oliveira, Igor Linkov, Andrea Critto, Silvia Torresan

(15:45-15:55 - Catch-up time)

Tue 3 Nov	15:55 – 16:15		Tea break	Eurac Reseach Workspace

Tue 3 Nov	16:15 – 17:15	S 5.4	SISC General Assembly of Member	Conference hall

L'assemblea sarà in Italiano.
I soci SISC sono caldamente invitati a partecipare a questo importante momento istituzionale.

Tue 3 Nov	16:15 – 17:15		Serius game session	Room Seminar 1+2+3

Risky Rudi is a card game on flood risk management. Players act as mayors and try to protect their city and plan adaptation strategies while navigating real-life challenges such as budget constraints, social inequalities and climate change.

Tue 3 Nov	17:45 - 18:45	SIDE EVENT (in Italian) **Clima e cultura**	Museo Scienze Naturali Alto Adige

Martedì 3.11 – h 17.45–18.45 – Museo Scienze Naturali Alto Adige

CLIMA E CULTURA

Storie e territori del cambiamento climatico

Un dialogo tra reportage e ricerca sul campo per scoprire come il cambiamento climatico stia ridisegnando paesaggi, territori e comunità in Europa, attraverso storie ed esperienze dirette.
Con **Sofia Farina**, giornalista scientifica e ambientale indipendente e **Mauro Varotto**, Università degli Studi di Padova. Modera **Lavinia Laiti**, Agenzia Provinciale per la Protezione dell'Ambiente della Provincia autonoma di Trento.

Museo Scienze Naturali Alto Adige, Via dei Bottai 1, 39100 Bolzano BZ

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza.
Maggiori informazioni su:
https://www.sisclima.it/conferenza-annuale-2026/side-events/side-event-clima-e-cultura/

Day 3 | Wednesday 4 November 2026

Wed 4 Nov	8:45 – 9:00		Registration of participants Pick your badge!	Eurac Reseach Main Entrance
Wed 4 Nov	9:00 – 09:45	**K3**	KEYNOTE SPEECH **Jana Sillmann**	Room Auditorium & Webinar

Chair: Massimiliano Pittore, Eurac Reseach

Adaptation in the context of cascading impacts and systemic risks

Global warming is amplifying climate-related shocks, such as extreme weather events, that generate cascading and compounding impacts across interconnected sectors and systems. These increasingly systemic risks challenge conventional approaches to climate adaptation, which often focus on managing risks in isolation. This presentation explores how a systemic risk perspective can support more effective adaptation planning and decision-making, highlighting methods to assess interconnected vulnerabilities and strengthen resilience to both current and emerging climate risks.

Jana Sillmann is a professor for climate statistics and climate extremes at the University of Hamburg and senior researcher at CICERO in Oslo, Norway. She is a leading expert in the analysis of climate extremes and their socio-economic impacts across sectors (e.g. health, agriculture, energy and finance) and her current work focuses on systemic risk assessment in context of adaptation to climate change and sustainable development. She has been co-leading activities of the World Climate Research Programme (WCRP) Grand Challenge on Weather and Climate Extremes and the Knowledge Action Network on Emergent Risks and Extreme Events (Risk KAN). She is currently co-chairing the Future Earth General Assembly. She is also Lead Author of Chapter 12 (Climate change information for regional impact and for risk assessment) in the 6th Assessment Report of the Intergovernmental Panel on Climate Change (IPCC AR6) Working Group 1 and Review Editor for the IPCC AR7 WGII Chapter 3 (Current adaptation progress, effectiveness and adequacy).

HYBRID SESSION: It is possible to attend the session remotely.
https://www.sisclima.it/conferenza-annuale-2026/programme/hybrid-sessions/

Wed 4 Nov	9:45 – 10:30	**P2**	**Poster session 2**	Eurac Reseach Foyer

2026-039

Bridging drought data gaps for improved drought monitoring: evidence from impact pathways in Northern Italy
Clara MANGANARO, CIMA Research Foundation, Savona, Italy
Author(s): Clara Manganaro, Francesco Avanzi, Michel Isabellon, Margherita Andreaggi, Francesca Munerol, Sabrina Meninno, Ramona Magno, Leandro Rocchi

TOPIC 2

2026-050

Biomass for Energy: methodological approaches for developing future scenarios in Italy
Arianna TREVISIOL, RSE S.p.A., Milan, Italy
Author(s): Arianna TREVISIOL, Matteo Pesce, Paola Faggian

TOPIC 2

2026-078
Urban Climate Adaptation and Energy Management: Enhancing the MLUCM BEP+BEM Model for Sustainable Cities
Gianluca PAPPACCOGLI, University of Salento, Andrano, Italy
Author(s): Gianluca PAPPACCOGLI
TOPIC 2

2026-079
Using Climate Reanalysis Data to Support Energy Efficiency Legislation and Climate Adaptation in Italy
Sandro CALMANTI, ENEA, Roma, Italy
Author(s): Sandro CALMANTI, Marta Antonelli, Alessandro Dell'Aquila, Domenico Iatauro, Paolo Signoretti, Giovanni Murano
TOPIC 2

2026-100
Extreme Precipitation and Flash Flood Events in Southern Ukraine under Climate Change: Synoptic Drivers, Urban Vulnerability and Adaptation Needs
Inna KHOMENKO, Odesa I.I. Mechnikov National University, Odesa, Ukraine
Author(s): INNA KHOMENKO, Valeriya Ovcharuk, Alina Semerhei-Chumachenko
TOPIC 2

2026-122
Climate Risk Assessment for Local Adaptation Policies: The Metropolitan City of Bologna Case Study
Nunzia Gabriella FASOLINO, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Caserta, Italy
Author(s): Nunzia Gabriella Fasolino, Carmela De Vivo, Nunzia Letizia, Carmela Apreda, Giuliana Barbato, Alfredo Reder, Arianna Acierno, Paola Mercogliano
TOPIC 2

2026-124
Integrating meteorological and insurance data to assess weather-induced risks in agriculture: a case study in Trentino-South Tyrol (north-eastern Italy)
Alice CRESPI, Center for Climate Change and Transformation, Eurac Research, Bolzano, Italy
Author(s): Alice Crespi, Liz Olaya Calderon, Claudio Callegher Zandonella, Simone Bombardelli, Valentina D'Alonzo, Massimiliano Pittore
TOPIC 2

2026-131
Multi-year modelling of energy consumption in residential buildings in Alpine regions using the MLUCM BEP+BEM model
Gianluca PAPPACCOGLI, University of Salento, Lecce, Italy
Author(s): Gianluca PAPPACCOGLI, Riccardo Buccolieri, Alessandro Prada, Vittoria Benedetti, Andrea Zonato
TOPIC 2

2026-137
Past climatologies and future trends of drought-relevant hydroclimatic indicators in the Upper Adige catchment
Andrea GALLETTI, Eurac Research, Bolzano, Italy
Author(s): Andrea Galletti, Stefano Terzi, Mariapina Castelli, Junaid Ahamd Mirza, Leonardo Montagnani, Giovanni Peratoner, Alice Crespi, Giacomo Bertoldi
TOPIC 2

2026-161
Investigating imbalances between water availability and multi-sectoral demand in South Tyrol (Italy): the NextWater_ST project
Stefano TERZI, Eurac Research, Bolzano, Italy
Author(s): Stefano TERZI, Andrea Galletti, Haile Shebeshe Assefa, Piero Campalani, Mariapina Castelli, Silvia Cocuccioni, Alice Crespi, Pranav Dhawan, Junaid Ahamd Mirza, Leonardo Montagnani, Giovanni Peratoner, Matteo Giacomo Prina
TOPIC 2

2026-015
Participatory Visioning as a Tool for co-creating desirable futures under climate change in the Alps
Elisa RAVAZZOLI, Eurac Research, Bolzano, Italy
Author(s): Elisa RAVAZZOLI, Lydia Pedoth , Federica Maino , Michael Pörnbacher , Rocco Scolozzi
TOPIC 3

2026-044
The governance of climate change in a changing global order: existing trends and new paths
Federica CITTADINO, Eurac Research, Institute for Comparative Federalism, Bolzano, Italy
Author(s): Federica Cittadino
TOPIC 3

2026-064
Assessing Science - Policy Interfaces for Climate Adaptation and Disaster Risk Reduction in Africa: a comparative indicator-based analysis
Margherita ANDREAGGI, CIMA Research Foundation, Savona, italy
Author(s): Isabel Gomes, Margherita Andreaggi, Enrico Ponte
TOPIC 3

2026-115
Participation to foster flood resilience: co-design and transdisciplinary collaboration as key tools in community-based adaptation to flood risk
Monica ABRAM, Eurac Research, Center for Climate Change and Transformation, Bolzano/Bozen, Italy
Author(s): Monica ABRAM, Elisa Ravazzoli, Federica Maino
TOPIC 3

2026-121
A Governance Framework for Transformative and Locally Led Climate Adaptation: The Regional Adaptation Board and Climate Innovation Hub Model
Nunzia Gabriella FASOLINO, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Caserta, Italy
Author(s): Nunzia Gabriella Fasolino, Anna Mandorli, Arianna Acierno, Paola Mercogliano
TOPIC 3

Wed 4 Nov | 10:30 – 11:00 | Coffee break | Eurac Reseach Workspace

Wed 4 Nov | 11:00 – 12:30 | **S 6.1** | **Climate Risk Assessment and Early Warning Tools II** | Room Auditorium

Chair: Nunzia Gabriella Fasolino, CMCC Foundation - Euro-Mediterranean Center on Climate Change

11:00 2026-103
A multi-criteria optimization framework to assess the transferability of local climate adaptation practices in the Alpine region
Luca CETARA, Eurac Research, ROMA, Italy
Author(s): Luca CETARA, Lorenzo Mucciarelli
TOPIC 2

11:20 2026-114
Operationalising climate risk assessment across scales: a comparison of three subnational adaptation experiences in Northern Italy
Marco PREGNOLATO, Fondazione Lombardia per l'Ambiente, Milano, Italy
Author(s): Marco PREGNOLATO(a, b), Luisa Battezzati, Gabriele Antolini, Antonio Ballarin Denti
TOPIC 2

11:40 2026-117
Integrating climate, land use, and river connectivity to assess current and future risks on water quality in the Venice Lagoon Basin leveraging graph neural networks
Jacopo FURLANETTO, CMCC Foundation - Euro-Mediterranean Center on Climate Change, Italy
Author(s): JACOPO FURLANETTO, Diep Ngoc Nguyen, Majid Niazkar, Francesco Maria D'Antiga, Fabienne Hornemann, Ignacio Gatti, Andrea Critto, Silvia Torresan
TOPIC 2

12:00 2026-135
OPAL for Floods: An Anticipatory Action Platform for Early Warning, Personalized Guidance, and Cash Transfers in Thiès, Senegal
Kun CHEN, OPALimpact, France
Author(s): Kun Chen, Andres Lozano, Baye Masse Mbaye, and the OPALimpact Team
TOPIC 2

(12:20-12:30 - Catch-up time)

Wed 4 Nov	11:00 – 12:10	S 6.2	Climate Justice, Law, Human Rights and Societal Transformation	Room Seminar 1+2+3

Chair: Aurora Nurce, University of Milano Bicocca

2026-166

11:00 **Preventing and Managing Environmental Conflict: The experience of the Milan Chamber of Arbitration**
Giovanni Nicola GIUDICE, Sistema Camera di commercio di Milano Monza Brianza Lodi, Milano, Italy
Author(s): Giovanni Nicola Giudice
TOPIC 2

2026-060

11:20 **Archetypes of Transformation-Oriented Research: Insights from Socio-Ecological Research Projects**
Elisa RAVAZZOLI, Eurac Research, Bolzano, Italy
Author(s): Elisa Ravazzoli, Lydia Pedoth, Cristina Dalla Torre, Romina Lavarello Schettini, Agnieszka Stawinoga
TOPIC 3

2026-167

11:40 **Defending Our Future : A New Form of Climate Communication**
Grace JAMES, Swansea University, Swansea, Wales
Author(s): Grace James
TOPIC 2

(12:00-12:10 - Catch-up time)

Wed 4 Nov	11:00 – 12:10	S 6.3	Temperature Anomalies, Heat Waves and Climate-Economic Impacts	Conference hall

Chair: Claudio Cassardo, University of Turin

2026-091

11:00 **Heat waves evolution in Italy over the present century**
Giulio SETTANTA, ISPRA, Rome, Italy
Author(s): Giulio SETTANTA, Piero Fraschetti, Francesca Lena, Giacomo Davide Pagliaro, Walter Perconti, Emanuela Piervitali
TOPIC 1

2026-093

11:20 **Statistically significant evidence of structural breaks over the past 15 years in global temperature and other time series of potential forcings**
Antonello PASINI, National Research Council, Rome, Italy
Author(s): Antonello PASINI, Umberto Triacca
TOPIC 1

2026-106

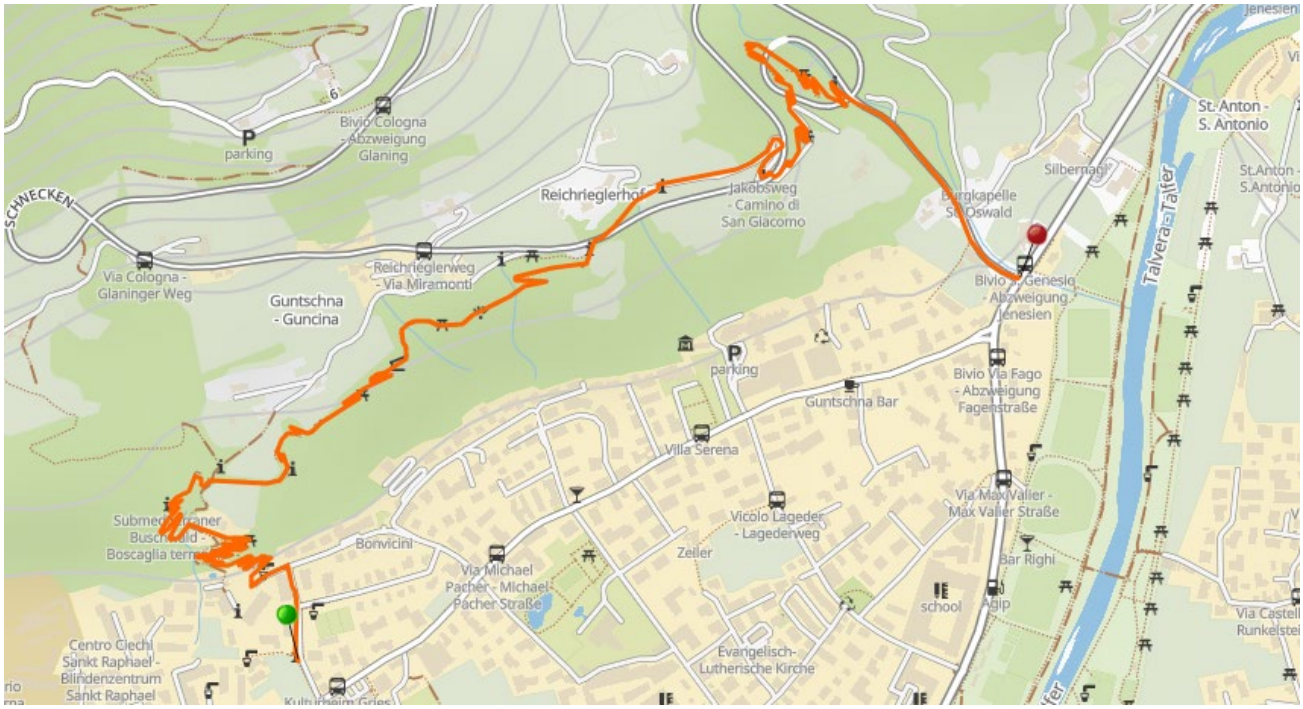
11:40 **Evaluating urban adaptation measures to mitigate overheating and cooling energy demand in a Mediterranean city**
Francesca MARTINELLI, University of Salento, Lecce, Italy
Author(s): Francesca MARTINELLI, Gianluca Pappaccogli, Domenico Toscano, Andrea Zonato, Antonio Esposito Riccardo Buccolieri
TOPIC 2

(12:00-12:10 - Catch-up time)

Wed 4 Nov	12:30 – 13:00	Closing session and award ceremony	Room Auditorium

Wed 4 Nov	13:00 – 14:00	Lunch	Eurac Reseach Workspace

Wed 4 Nov	14:00 – 15:30		Social Event - Guncina Hike



https://www.weinstrasse.com/en/highlights/town-of-bolzano/bolzano-s-promenades/guncina-promenade/

Starting point: Via Michael Pacher, 22, 39100 Bolzano BZ

End point: Bolzano, Bivio S. Genesio, G85X+X3 Bolzano, Provincia autonoma di Bolzano - Alto Adige

Other side events

Gio **19** Nov	17:45 - 18:45		SIDE EVENT (in Italian) **Clima e Cultura**	Museion

CLIMA E CULTURA
Raccontare l'acqua: nuovi linguaggi per il clima
Un incontro tra arte, letteratura e attivismo per esplorare l'acqua come bene comune, spazio di relazione e chiave narrativa della crisi climatica.
Con Sara Mattiazzi, Ocean Space e Daniele Lupo, Lungomare. Modera Silvia Torresan, Centro euro-mediterraneo sui cambiamenti climatici.
A seguire, dalle 19.00 alle 20.00, visita guidata gratuita dedicata alle mostre in corso in italiano, tedesco e inglese.

Museion, Piazza Piero Siena 1, 39100 Bolzano BZ

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza.
Maggiori informazioni: https://www.sisclima.it/conferenza-annuale-2026/side-events/side-event-clima-e-cultura/

Ven **27** Nov	17:45 - 18:45		SIDE EVENT (in Italian) **Clima da leggere**	Libreria Cappelli

Presentazione del libro: **Disagio ambientale**
Con l'autore Antonio Zamperini, Università degli Studi di Padova
Massimiliano Pittore, Eurac Research

Libreria Cappelli, Corso della Libertà 2, 39100 Bolzano BZ

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza.
Maggiori informazioni:
https://www.sisclima.it/conferenza-annuale-2026/side-events/side-event-clima-da-leggere/

Mar **1** Dic	17:45 - 18:45		SIDE EVENT (in Italian) **Clima e Cultura**	Museo Scienze Naturali Alto Adige

CLIMA E CULTURA
Psicologia e fiducia nella scienza
Un incontro sui fattori psicologici e sociali che influenzano la percezione della crisi climatica, la fiducia nella scienza e la disponibilità ad agire.
Con **Alessandro Gabbiadini**, Università degli Studi di Milano-Bicocca, e **David Hoffman**, Climate Action South Tyrol.
Modera **Elisa Ravazzoli**, Eurac Research

Museo Scienze Naturali Alto Adige, Via dei Bottai 1, 39100 Bolzano BZ

L'evento è GRATUITO e aperto sia ai partecipanti della conferenza scientifica SISC che alla cittadinanza.
Maggiori informazioni: https://www.sisclima.it/conferenza-annuale-2026/side-events/side-event-clima-e-cultura/

List of Participants

(Last update: 30 October 2026)

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Diego **BANDERA**, Dolomiti Energia

Federico **BEFFA**, Fondazione Cariplo

Carlo **BERTETTI**, Studio Progetto Ambiente srl

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Roberta **BOTTARIN**, Eurac Reseach

Lisa **BRANDHUBER**, Trafficon Software GmbH

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Sebastiano **CARPENTARI**, AISAM - Associazione Italiana Scienze dell'Atmosfera e Meteorologia

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Marco **CHERICONI**, CMCC Foundation - Euro-Mediterranean Center on Climate Change

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Arianna **DI PAOLA**, Consiglio Nazionale delle Ricerche (CNR)

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