

CLIMATE
ACTION
IN SUPPORT
OF THE PARIS AGREEMENT
BOLOGNA, 26-27 OCTOBER 2017

Thursday, October 26th

MORNING

9.30-10.30 Registration of participants

10.30-11.30 Plenary 1: **Roberto Buizza**, ECMWF Lead scientist, *ECMWF 2016-2025 strategy: moving towards seamless ensembles*

11.30-12.30 Plenary 2: **Andrea Tilche**, Directorate General for Research and Innovation, European Commission (teleconference from Bruxelles), *Climate change research – Horizon 2020 orientations for the next 3-year period*

12.30-13.30 Lunch break

26 OCTOBER 2017– PARALLEL SESSION -- 13.30-15.30

AULA 216

Water for our environment, economy and society - Tools and strategies to support water resources management and governance

Chair: Antonello Pasini

- 13.30-13.50: Ciot M., Corpi Civili di Pace FOCSIV – *Ecuador, A Little Revolution In The Brazilian Semiarid*
- 13.50-14.10: Oviedo P., *The New School of Public Engagement, The New Water War: the effects of poor management and extractive industries on water provision in La Paz, Bolivia; solutions through community-based and decentralized models*
- 14.10-14.30: Standardi G., FEEM *Economy-wide repercussions of agricultural water buyback in the Murcia region*
- 14.30-14.50: Montebugnoli M.F., University of São Paulo, *Connecting National and Global Indicators: the Case of the Sustainable Development Goal on Water*
- 14.50-15.10: *Discussion*

AULA 215

Adaptation and climate services - Driving adaptive responses for risk assessment and reduction

Chair: Antonio Marcomini (Università Ca' Foscari Venezia, CMCC)

- 13.30-13.50: Mysiak J., CMCC, *Climate change adaptation and disaster risk reduction in Europe - Enhancing coherence of the knowledge base and policies*
- 13.50-14.10: Aguinaldo M.E., Scuola Superiore Sant'Anna, *Risk Assessment and Climate Change Adaptation by Organizations: Determinants, Methods and Outcomes*
- 14.10-14.30: Ferrise R., University of Florence, *Using Adaptation Response Surfaces and Probabilistic Projections for assessing Adaptation*
- 14.30-14.50: Von Hardenberg J., ISAC-CNR, *Metrics and Indices for Data Analysis of Climate Models: C3S-MAGIC*
- 14.50-15.10: Singletary L., University of Nevada, Reno, *Adapting to Earlier Snowmelt through Reservoir Reoperation*
- 15.10-15.30: *Discussion*

AULA 213

Improving the understanding of key climate processes for reducing uncertainty in climate projections

Chair: Barbara Stenni

- 13.30-13.50: Facchini M.C., ISAC-CNR, *Air quality and climate: two sides of the same coin*
- 13.50-14.10: Bellucci A., CMCC, *The role of forcings in the 20th century North Atlantic multidecadal variability: the 1940-1975 North Atlantic cooling case study*
- 14.10-14.30: Davini P., ISAC-CNR / LMD-ENS, *Coherent Structures in Stratocumulus Topped Boundary Layer: Towards a New Parametrization of Stratocumulus Convection in Global Climate Models*
- 14.30-14.50: Cagnazzo C., ISAC-CNR, *Stratosphere---resolving CMIP5 models simulate different changes in the Southern Hemisphere*
- 14.50-15.10: Mercogliano P., CMCC, *High-resolution COSMO-CLM climate projections over Israel*
- 15.10-15.30: *Discussion*

15.30-16.00 Coffee break

PARALLEL SESSION

- 16.00-17.40

AULA 216

Water for our environment, economy and society - Characterizing hydrological extremes and CC impacts on water resources

Chair: Silvio Gualdi (TBC)

- 16.00-16.20: Torresan S., CMCC, *A multi-hazard Bayesian Network approach for the assessment of climate change and anthropic impacts on water quality*
- 16.20-16.40: Santini M., CMCC, *Hydrological drought indices as support to water management under climate change: the case of Ofanto river (Italy)*
- 16.40-17.00: Pohll G., Desert Research Institute, *Assessing the Impacts of Climate Change on a Groundwater System in a Snow-Dominated Watershed*
- 17.00-17.20: Garner C., Desert Research Institute, *Assessing the Impacts of Climate Change on a Highly Managed Terminal Lake Basin*

- 17.20-17.40: *Discussion*

AULA 215

Adaptation and climate services - Building a market: user needs, businesses models, cases study

Chair: Jarslaw Mysiak (CMCC)

- 16.00-16.20: Tart Maurice S., LGI Consulting, *What European Climate Service Users Really Want: A Characterisation of Their Needs*
- 16.20-16.40: Larosa S., CMCC, *Towards an efficient market for Climate Services: the role of business models*
- 16.40-17.00: Kielmanowicz D., LGI Consulting, *MARCO Project: Case Study on Climate Services in the Water and Sanitation Sector in Catalonia*
- 17.00-17.20: Marletto V., ARPAE, *Climate Services for Irrigated Agriculture: Structure and Results from the MOSES DSS*
- 17.20-17.40: *Discussion*

AULA 213

Cryosphere and tipping points

Chair: Susanna Corti

- 16.00-16.20: Stenni B., Ca' Foscari University of Venice, *Antarctic Climate Variability At Regional And Continental Scale Over The Last 2000 Years*
- 16.20-16.40: Scoto F., Ca' Foscari University of Venice, *Defining The Paleo Sea-Ice Evolution During Abrupt Climate Change As A Way To Better Understand Modern Retreat: A Multidisciplinary Approach*
- 16.40-17.00: Colleoni F., CMCC, *What does +2°C mean for the Antarctic ice sheet?*
- 17.00-17.20: Terzago S., ISAC-CNR, *The Representation Of Snowpack In Climate Models: The Impact Of The Horizontal Resolution*
- 17.20-17.40: *Discussion*

18.00-19.00 SISC General Assembly

20.00 Social Dinner in Villa Baldi Sassoli

FRIDAY, OCTOBER 27

MORNING

9.00-10.00 Plenary 3: **Angelo Riccaboni**, University of Siena, coordinator of the PRIMA (Partnership in Research and Innovation in the Mediterranean Area) project, *MED Challenges and Agri-Food Research and Innovation: the PRIMA Initiative*

10.00-10.30 Coffee break

PARALLEL SESSION 10.30-12.30

AULA 216

Knowledge gaps in climate science, in support of IPCC reports

Chair: Mita Lapi

- 10.30-10.50: Nicolì D., Università Ca' Foscari Venezia-CMCC, *Global Climate Impacts of the Atlantic Multidecadal Variability: a model-based approach*
- 10.50-11.10: Maione M., Università di Urbino-ISAC-CNR, *Atmospheric Monitoring and Inverse Modelling for Verification of Halogenated Greenhouse Gas Inventories*
- 11.10-11.30: Cristofanelli P., ISAC-CNR, *Long-term trends of climate-altering species at the Mt. Cimone WMO/GAW Global Station (Italy, 2165 m a.s.l.)*
- 11.30-11.50: Pavan V., ARPAE, *The ARCIS daily precipitation observational analysis for NorthCentral Italy from 1961 to 2015*
- 12.10-12.30: *Discussion*

AULA 215

Inter-relations between climate change, biodiversity and ecosystems

Chair: Dario Battistel

- 10.30-10.50: Butenschön M., CMCC, *Can Global Climate Model projections inform on climate change impacts on the marine ecosystem services at regional scales relevant to marine policy?*
- 10.50-11.10: De Oliveira Silva R., SRUC, *The role of agricultural intensification in Brazil's Nationally Determined Contribution on emissions mitigation*

- 11.10-11.30: Marcomini., CMCC, Integrated modelling of climate change impacts on nutrient loadings and coastal aquatic ecosystems
- 11.30-11.50: D'Onofrio D., ISAC-CNR, *Vegetation-fire-climate interactions in tropical Africa: learning from observations and dynamic global vegetation models*
- 11.50-12.10: Cassardo C., University of Turin, *Climatology of micrometeorological and physiological parameters in the regional vineyard ecosystem*
- 12.10-12.30: *Discussion*

AULA 213 Decarbonisation - Climate mitigation benefits, costs and technologies (Section 1)

Chair: Cristina Sabbioni

- 10.30-10.50: Piana V.C.L., Economics Web Institute, *With the new National Energy Strategy and the Roadmap for Sustainable Mobility, which role for transport in Italy's decarbonisation in 1.5°C consistent pathways under the Paris Agreement?*
- 10.50-11.10: Mazziotti C., CNR-IIA, *Coal fired power plants in Italy from past to future*
- 11.10-11.30: De Marchi M., *University of Padua, Where To Leave Fossil Fuels Underground? Multicriteria GIS Analysis To Assess Unburnable Carbon Areas In Bolivia And Italy*
- 11.30-11.50: Drouet L., FEEM, *Heterogeneity in the national contributions to the Social Cost of Carbon*
- 11.50-12.10: Aleluia Reis L., FEEM, *Global Air Quality Index under different socioeconomic and climate scenarios*
- 12.10-12.30: *Discussion*

12.30-13.30 Lunch break

AFTERNOON – PARALLEL SESSION 13.30-15.30

AULA 216

Connecting economic and environmental gains – the circular economy

Chair: Carlo Carraro

- 13.30-13.50: Van der Tak C.M., *Nutawa Sagl, Switzerland, Mitigation and carbon loans & bonds*
- 13.50-14.10: Glynn P., Bond University, Queensland Australia, *Business, Organized Labour and Climate Policy. Forging a Role at the Negotiating Table*
- 14.10-14.30: Sanna L., CNR-IBIMET, *Eco-sustainable dairy sheep production: an LCA approach from Sardinia, Italy*
- 14.30-14.50: Dasgupta S., FEEM - Ca' Foscari University of Venice, *Climatic Exposure and Economic Activity – An Update*
- 14.50-15.10: *Discussion*

AULA 215

Climate impacts in Europe

Chair: Carlo Barbante

- 13.30-13.50: Bosello F., CMCC-FEEM, *Soil erosion in the European Union: from direct costs to macro-economic effects (TBC)*
- 13.50-14.10: Noce S., CMCC, *Changes in Forest Species Suitability, Distribution and Diversity Under Future Climate: the Case of Southern Europe*
- 14.10-14.30: Scoccimarro E., CMCC, *The role of humidity in determining perceived temperature extremes scenarios in Europe*
- 14.30-14.50: Giordano F., ISPRA, *Selecting And Evaluating Climate Change Impact Indicators Towards a National Framework for Italy*
- 14.50-15.10: Pasini A., IIA-CNR, Institute of Atmospheric Pollution Research, *Influence of climatic changes on migration fluxes from the Sahel countries to Italy in the period 1995-2009*
- 15.10-15.30: *Discussion*

AULA 213

SIDE EVENT 13.30-15.30

NextData

Chair: Antonello Provenzale

- 13:30-13:45: Provenzale A., CNR-IGG, *Overview of the project*
- 13:45-14:00: Cristofanelli P., CNR-ISAC, *The high-altitude climate monitoring network*
- 14:00-14.10: Baroni C. /M.C. Salvatore, DST, Università di Pisa, *Database of Italian mountain glaciers*
- 14.10-14.25: Maggi V., UniMiB, *The Italy-2k Initiative in NextData*
- 14:25-14:35: Gabrieli J., CNR IDPA, *Paleoclimate and Environmental Monitoring*
- 14:35-14:45: Fratianni C., INGV, *The Mediterranean Sea long-term reanalysis in the Nextdata project*
- 14:45-15:00: Gualdi S., CMCC, *NextData model data and simulations: an outlook on the possible future climate for the Italian Peninsula and the Mediterranean basin*
- 15.00-15.30: *Discussion*

15.30-15.45 Coffee break

15.45 17.30 - PLENARY ROOM

15.45 Best abstract award

16.00 SIDE EVENT

Round Table: ADAPTATION POLICIES AND GOVERNANCE *The constant dialogue among the National, regional, and local level*

Chair: **Donatella Spano** - *Coordinatore Commissione Ambiente ed Energia della Conferenza delle Regioni e delle Province Autonome, Assessore Regionale della Difesa dell'Ambiente della Regione Sardegna*

Intervengono:

- **Gianluca Galletti**, *Ministro dell'Ambiente e della Tutela del Territorio e del Mare (MATTM)*
- **Carlo Cacciamani**, *Dipartimento Nazionale della Protezione Civile*

<http://www.sisclima.it>

- **Paola Gazzolo**, *Assessore alla difesa del suolo e della costa, protezione civile e politiche ambientali e della montagna della Regione Emilia Romagna*
- **Filippo Caracciolo**, *Assessore Qualità dell'ambiente – Ciclo rifiuti e bonifiche, Rischio industriale, Ecologia, Vigilanza ambientale della Regione Puglia*
- **Fabrizio Piccarolo**, *Direttore Fondazione Lombardia per l'Ambiente*
- **Marco Dus**, *Membro della Commissione Ambiente, cambiamenti climatici ed energia del Comitato Europeo delle Regioni*
- **Antonio Navarra**, *Presidente della Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)*
- **Stefano La Porta**, *Presidente Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)*
- **Gianfranco Bologna**, *Direttore scientifico WWF Italia*
- **Angelica Monaco**, *Direttore Climate-KIC Italy*
- **Edoardo Zanchini**, *Vice presidente Nazionale di Legambiente*