



23rd SEPTEMBER, 2013

* Only presenting authors are mentioned in the program

Welcome Address: ANTONIO NAVARRA, DONATELLA SPANO Plenary Lecture: CORRADO CLINI, Italian Ministry of Environment, Land and Sea

	Parallel sessions ADVANCES IN CLIMATE SCIENCE	Parallel sessions IMPLICATIONS ON ECOSYSTEM SERVICES	Parallel sessions CLIMATE POLICY AND ECONOMIC ASSESSMENT
	Modes of variability in the Pacific Ocean	Dynamic Landscapes: Hazard & Risk Assessment - I	Economic analysis of Climate Change Impacts: methods and approaches
10.00-10.20	ENSO Formation over the Equatorial Ocean K. Miyakoda - Princeton University N.J.	An European HPC Infrastructure and the Climate Challenges G. Erbacci - CINECA SCAI Department	Probabilistic economic impacts of climate change in an integrated assessment model framework L. Drouet - CMCC/FEEM
10.20-10.40	Intrinsic climate variability paced by external forcing: the Kuroshio Extension bimodality - North Pacific Oscillation case S. Pierini - Università degli Studi di Napoli Parthenope	Exploring synergies for disaster risk reduction in Guatemala: the use of cognitive maps V. Giannini - CMCC	A Ricardian Analysis of the Impact of Climate Change on European Agriculture R. Mendelson - Yale University
10.40-11.00	Climatic trends of the equatorial undercurrent: A backup mechanism for sustaining the equatorial Pacific production <i>R. Ruggio - Università del Salento</i>	Syndromes of Land Degradation and Implications for Ecosystem Services in Emilia-Romagna, Italy. An Evaluation Framework for the Past and in Face of a Changing Climate <i>T. Ceccarelli - CRA-CMA</i>	Chaos in, chaos out: the effect of deterministic chaos in GCM scenarios on estimates of climate change impacts <i>E. Massetti</i> - <i>CMCC</i>
11.00-11.20	ENSO and Pacific Decadal Oscillation: decadal variability driven by tropical-extratropical interactions <i>R. Farneti - ICTP</i>	Preliminary assessment of the effects of climate change on landslide activity of Orvieto clayey slope <i>G. Rianna - CMCC</i>	Ambiguity and optimal learning in climate mitigation scenarios F. Creutzig - MCC Berlin
11.30-12.00	Coffee Break		
	Regional climate modelling and downscaling	Dynamic Landscapes: Hazard & Risk Assessment - II	Strategies for adaptation and mitigation policies - I
12.00-12.20	A statistical downscaling system for seasonal projections using ensemble neural networks with Bayesian regularization S. Amendola - CMCC	Towards flood risk assessment in a climate change perspective P. Ronco - Università Ca' Foscari di Venezia	Putting climate change adaptation into action: an operational approach to implement the European Guidelines on developing adaptation strategies C. Giupponi - Università Ca' Foscari di Venezia / CMCC
12.20-12.40	Multimodel SuperEnsemble Downscaling of Regional Climate Models in South-Western Alps D. Cane - Arpa Piemonte	A risk-based assessment of impacts affecting groundwater resources and related ecosystems in view of climate change S. Torresan - CMCC	The dynamic feedback of climate change impacts and catastrophic risk on mitigation and adaptation investments F. Bosello - FEEM / CMCC / Università Statale di Milano
12.40-13.00	Implementation and validation of a precipitation downscaling chain for regional climate modelling D. D'Onofrio - Università degli Studi di Torino / ISAC-CNR	Stochastic behaviour of phosphorus export from rural land: evidence from fifteen years monitoring of Lake Vico basin (Central Italy) A. Leone - UNITUS	Is Geoengineering a viable Option for Dealing with Climate Change? M. Tavoni - CMCC
13.00-13.20	Performance evaluation of COSMO-CLM over Italy and climate projections for the XXI century <i>E. Bucchignani - CMCC</i>	Climate change scenarios of minimum, maximum temperature and precipitation over Italian areas, period 2021-2050 <i>R. Tomozeiu - ARPA-SIMC Emilia-Romagna</i>	Insurance and Climate Change Adaptation: Field Experiments in Chilika Lagoon, India A. Sharma - Università di Siena
13.30-14.30	Lunch		

	Variability and uncertainties using CMIP5 models	Impacts on natural ecosystems - I	Strategies for adaptation and mitigation policies - II
14.30-14.50	A data-driven causality analysis for the attribution of recent global warming A. Pasini - IIA-CNR	Distribution of bioclimate zones and their shifting due to climate change A. Trabucco - CMCC	Guidelines for the implementation of the Regional Adaptation Strategy in Lombardy (RAS) M. Lapi - Fondazione Lombardia per l'Ambiente
14.50-15.10	Reliability and skill of CMIP5 multi-model decadal hindcasts S. Corti - ISAC-CNR	Influence on population density and climate on the dynamics of the black grouse (<i>Tetrao tetrix</i>) populations in the Piedmont region (Italy) <i>R. Casagrandi /A. Mignatti - Politecnico di Milano</i>	Beyond stationarity in planning renewables: The CLIM-RUN experience for the Euro-Mediterranean region A. Dell'Aquila - ENEA
15.10-15.30	Snow depth in the "Third Pole": how do CMIP5 models represent it? S. Terzago - ISAC-CNR	Response to climate change of alpine glaciers in north-western Italian Alps R. Bonanno - Arpa Piemonte	Eni's approach to mitigation and adaptation R. De Filippo - ENI
15.30-15.50	Heavy precipitation events over the Euro-Mediterranean region in a warmer climate: results from CMIP5 models <i>E. Scoccimarro - INGV / CMCC</i>	Has the ocean contributed to the decline of European eel recruitment? Results of a 40-year simulation experiment <i>R. Casagrandi / M. Schiavina - Politecnico di Milano</i>	Climatic Change Impacts on Energy Sectors over Italian Region P. Faggian - RSE SpA
16.00-16.30		Coffee Break	
	Modes of variability in the atmosphere and ocean	Impacts on natural ecosystems - II	Air Quality and Climate Change Mitigation Policies
16.30-16.50	Effects of the North Atlantic Oscillation on winter precipitation in the Hindu-Kush Karakoram L. Filippi - ISAC-CNR	Climate Change Impacts on Distribution and Composition of the Alpine Natural Pasturelands C. Dibari - Università degli Studi di Firenze	Air quality benefits of climate change mitigation policies L. Aleluia Reis - CMCC
16.50-17.10	Atmospheric Blocking and Euro-Atlantic Winter Mid-Latitude Climate Variability <i>P. Davini - ISAC-CNR</i>	Larval Connectivity in the Central Pacific Ocean: Lagrangian simulations in the Northern Line Islands <i>R. Casagrandi - Politecnico di Milano</i>	Synergies and trade-offs between climate change mitigation strategies and air quality policies: the case of wood burning in domestic appliances S. Caserini - Politecnico di Milano
17.10-17.30	The sporadic nature and associated spectral features of transient- eddy meridional heat transport G. Messori - Imperial College London	The effects of climate change on cuatro cienegas aquatic ecosystem in the desert environment of northern Mexico <i>M. Herrera-Pantoja - Queretaro Water Commission</i>	Ancillary benefits of climate change policy in China: air pollution impacts on househlod health, adaptation and government-controlled information in Beijing <i>C. Ravetti - CIES</i>
17.30-17.50	The Antarctic Circumpolar Wave scenario described as a combination of interannual signals D. Cerrone - Università di Siena		
18.00-19.30	Media Session		
20.30-23.00	Social dinner		

24th SEPTEMBER, 2013

9.00-10.00

Plenary Lecture: ANGELA LIBERATORE, European Commission - Vrije Universiteit Brussel (VUB)

	Parallel sessions Parallel sessions Parallel sessions ADVANCES IN CLIMATE SCIENCE IMPLICATIONS ON ECOSYSTEM SERVICES CLIMATE POLICY AND ECONOMIC ASSESSMENT			
	ADVANCES IN CLIMATE SCIENCE	IMPLICATIONS ON ECOSTSTEM SERVICES	CLIMATE POLICY AND ECONOMIC ASSESSMENT	
	Climate processes in the Mediterranean region - I	Impacts on Forest and Agriculture Ecosystems - I	Climate change and urbanization: implications, feedback and evaluation of strategies	
10.00-10.20	Future storm surge distribution along the Mediterranean coast P. Lionello - Università del Salento / CMCC	The impact of selective logging on Forest structure, Plant Diversity and above-ground biomass of African tropical forests F. Papparella - Università del Salento	Integrating the human dimension in ecosystem based adaptation to global changes L. Ilieva - Università Ca' Foscari di Venezia	
10.20-10.40	Tropical-like cyclones in the Mediterranean sea: from the case study over Salento to a combined satellite-modelling approach <i>M. Miglietta - ISAC-CNR</i>	Assessing the resilience of Mediterranean trees diversity to climate change projections A. Di Paola - CMCC	Vulnerability of Paris metropolitan area to future heat waves A. Lemonsu - CNRM/GAME (Météo-France, CNRS)	
10.40-11.00	Sicily monthly high-resolution solar radiation climatologies M. Maugeri - Università Statale di Milano	Projected climate change impacts on staple crops in Nigeria V. Mereu - CMCC	The role of climatic variability on cholera spreading in Bangladesh M. Ciddio - Politecnico di Milano	
11.00-11.20	The myth of Scylla and Charybdis: a torrent in the Messina Strait F. Antonioli - ENEA	Evaluation of the potential of genomic tools and plant genes to mitigate the climate change impact and extremes on natural ecosystems and agriculture L. Ricciardi - Università di Bari	Albedo Modifications as Global Mitigation and Local Adaptation Strategy in European Cities: A Geographically Explicit Investigation T. Susca - Hertie School of Governance	
11.30-12.00	Coffee Break			
	Climate processes in the Mediterranean region - II	Impacts on Forest and Agriculture Ecosystems - II	Translate the interactions between climate and the processes concerning ecosystems into economic values	
12.00-12.20	Daily precipitation statistics over the Po Basin: observation and post- processed RCM results <i>M. Turco - CMCC</i>	Forest fires in Italy: an econometric analysis of major driving factors <i>M. Michetti - CMCC</i>	An indicator-based assessment of vulnerability to climate change in Italian coastal cities <i>M. Breil - CMCC</i>	
12.20-12.40	Climatological characterisation of the Ora del Garda wind in the Alps D. Zardi - Università degli studi di Trento	Local Impact Assessment of Climate Change on Fire Season Length P. Duce - CNR-IBIMET	Tools to support a sustainable water use in agriculture considering climate and policy change G. Bazzani - CNR-IBIMET	
12.40-13.00	Reconstruction of long time series of monthly temperature values by statistical methods: an application to Europe and the Mediterranean region L. Scarascia - Università del Salento	Analyzing changes in wildfire likelihood and intensity in Mediterranean areas: a case study from central Sardinia, Italy <i>M. Salis - UNISS / CMCC</i>	Climate change, smoothing with water stock and impact on the agricultural sector in the Po valley (Italy) <i>M. Bozzola - CIES</i>	
13.00-13.20	Continuous measurements of climate altering halogenated gases at the Italian Climate Observatory O. Vittori (ICO-OV) <i>M. Maione - Università Carlo BO Urbino</i>	Skill assessment of the global model EC-Earth in fire danger indices evaluation over the Greater Alpine Region: a comparison with the corresponding ERA-Interim Reanalysis parameters S. Barbarino - ISAC-CNR	The economics of tropical cyclones under climate change: Incorporating the Impact of Global Hurricane Characteristics and Level of Development L. Bakkensen - Yale University	
13.30-14.30	Lunch			
14.30-15.00	Plenary - Awards			
15.00-16.30	Poster Session SISC General Assembly			

24th September, 2013

30	Poster Session			
	Poster Session ADVANCES IN CLIMATE SCIENCE	Poster Session IMPLICATIONS ON ECOSYSTEM SERVICES	Poster Session CLIMATE POLICY AND ECONOMIC ASSESSMENT	
	Intrinsic variability of the Antarctic Circumpolar Current: low- frequency fluctuations in the Argentine Basin flow S. Pierini - Università degli Studi di Napoli Parthenope	Assessing environmental impacts of climate change at the regional scale to provide adaptation services: the Decision support System for Coastal climate change impact assessment (DESYCO) S. Torresan - CMCC-ISC	The Cost of Climate Change Inaction in the EU. A CGE Approach R. Pierfederici - FEEM	
	GNSS Analysis for Meteorological Applications and Climate Monitoring in the Mediterranean Area B. Pace - E-GEOS S.p.A., ASI / Centro di Geodesia Spaziale	Rewetlant: wetlands spread by the environmental restoration of Agro Pontino M. Sibilla - Università Sapienza di Roma	Economic and climate impacts of using forestry residue for bio- energy A. Favero - CMCC / FEEM	
	Study of aerosol - water vapor - clouds interaction at CNR-IMAA Atmospheric Observatory <i>F. Madonna - CNR-IMAA</i>	Fluctuation in spatial patterns in semi-arid ecosystems under pressure R. Corrado - Università del Salento	The informative role of farmers' perceptions of change for the development of robust climate change adaptation policies – a case study from Italy <i>L. Bonzanigo - CMCC / FEEM</i>	
	ACTRIS for coordinated long-term observation of aerosols, cloud- aerosol interactions, and trace gases in Europe <i>G. Pappalardo - CNR</i>	Application of the 3D-CMCC FEM (Three Dimension Forest Ecosystem Model) on multi-temporal NDVI satellite imagery and future scenarios A. Collalti - CMCC	Impact of Climate Change on Crop Yields A Quantile Regression Analysis S. Dasgupta - Università Ca' Foscari di Venezia	
	Space-borne measurements of carbon dioxide distribution: inverse modelling and data fusion techniques <i>U. Cortesi - IFAC-CNR</i>	Are Cereals in Globally Trouble? E. De Cian - FEEM / CMCC	Evaluation of flood disaster risk in the Polesine sub-region M. Amadio - FEEM / CMCC	
	Time Series Analyses of Climatological Records from a High Altitude Observatory in Southern Italy (Montevergine, AV) G. Budillon - Università degli Studi di Napoli Parthenope	Assessing future land suitability of winter wheat crop V. Mereu - UNISS / CMCC	Adaptation strategies at river basin district scale: the Po river basin experience L. Carrera - FEEM / CMCC	
	Recent trends in daily temperature extremes over the Basilicata Region, Southern Italy (1951 – 2010) A. Pasini - CNR	Impact of drought on crop production: the Agricultural Regions from the Po river Basin case study S. Santato - FEEM		
	Observed long term trend and low-frequency variability of spring discharge timing in the main Alpine rivers <i>M. Zampieri - CMCC</i>	Water scarcity, climate change, and food security: challenges for the future <i>N. Mancosu - UNISS / CMCC</i>		
	Long term atmosphere-surface trasnfer studies in Salento Peninsula: a database <i>P. Martano - CNR-ISAC</i>	An analysis of the fire danger regime in Italy <i>F. Masala - CMCC</i>		
	Statistical modelling of sequences of no rainy days E. Ferrari - Università della Calabria	Historical Trends and Future Predictions of Fire Emission Estimation in Italy V. Bacciu - CMCC / UNISS		
	Mesoscale biological-physical interactions in the Sardinian Sea S. Bonamano - UNITUS	A modelling framework to estimate CO2 fluxes under urban development scenarios S. Marras - UNISS / CMCC		
	Is global warming causing mass mortalities in the Mediterranean Sea upper layer? I. Rivetti - Università del Salento			
	High resolution coastal monitoring during the sea breeze event <i>R. Martellucci - UNITUS</i>			
	Relationship between sahel rainfall and Mediterranean summer climate R. D'Agostino - Università del Salento / CMCC			
structures design	Multivariate analysis for the influence of climate change on maritime structures design G. Salvadori - Università del Salento			