

Rome2015  
**SCIENCE  
SYMPOSIUM**  
on **CLIMATE**

FAO Headquarter  
November 19-20, 2015

*Agenda tentative*

**THURSDAY, November 19, 2015**

08:45	<b>Registration</b>
10:00	<b>PLENARY HALL</b> <b>Opening Addresses</b> <b>Donatella SPANO</b> – SISC President <b>Maria Helena SEMEDO</b> – FAO Deputy Director-General, Coordinator for Natural Resources <b>Carlo CARRARO</b> – IPCC, Vice-Chair WG3, FEEM, CMCC, Ca' Foscari University Venice <b>Laurence TUBIANA</b> – Special Representative of the French Minister of Foreign Affairs for the 2015 Paris Climate Conference, COP-21, and French Ambassador for Climate Negotiations <b>Gianluca GALLETTI</b> – Italian Minister of the Environment, Land and Sea
10:45	Plenary lecture: <b>FOOD SECURITY AND CLIMATE CHANGE</b> <b>Martin FRICK</b> – FAO, Director of Climate, Energy and Tenure Division
11:15	COFFEE BREAK

**THURSDAY, November 19, 2015 / h. 11.45 – 13.00**

11:45

<p><b>IRAN ROOM</b></p> <p><b>COP21, THE INDCs AND POLICIES TO ADDRESS CLIMATE CHANGE</b></p> <p><b>COP 21: effectiveness, cost and sustainability dimension</b>  <b>CHAIR Carlo CARRARO</b>                      (IPCC, FEEM, CMCC, Univerità Ca' Foscari Venezia)</p>	<p><b>IRAQ ROOM</b></p> <p><b>OCEAN AND CLIMATE CHANGE ON THE WAY TO COP21</b></p> <p><b>Ocean climate change, ocean modelling and analysis</b>  <b>CHAIR Simona MASINA</b>                      (CMCC)</p>	<p><b>PLENARY HALL</b></p> <p><b>WATER, ENERGY AND FOOD NEXUS IN AGRICULTURE</b></p> <p><b>Water resources in a changing climate</b>  <b>CHAIR Donatella SPANO</b>                      (SISC, CMCC)</p>	<p><b>POSTER SESSION</b></p>
<p><b>L. CAMPAGNOLO</b>                      (FEEM, CMCC)</p> <p>Can Paris deal boost sdgs achievement? An assessment of climate-sustainability co-benefits</p>	<p><b>S. PIERINI</b>                      (Università di Napoli Parthenope)</p> <p>Describing and understanding the intrinsic kuroshio extension decadal variability</p>	<p><b>N. D. GUYENNON</b>                      (CNR-IRSA)</p> <p>Modelling irrigation practice for long-term groundwater sustainability</p>	
<p><b>N. ARNELL</b>                      (University of Reading)</p> <p>Global-scale impacts avoided by the INDCs</p>	<p><b>G. SANNINO</b>                      (ENEA)</p> <p>Variability of the Mediterranean thermohaline circulation IN MED-CORDEX HINDCAST Simulations</p>	<p><b>H. KANAMARU</b>                      (FAO)</p> <p>Projection of climate change impacts on hydrological regimes for agriculture adaptation planning</p>	
<p><b>C. ORECCHIA</b>                      (CMCC, FEEM)</p> <p>The cost of climate stabilization in Southeast Asia, a joint assessment with dynamic optimization and CGE models</p>	<p><b>C. FRATIANNI</b>                      (INGV)</p> <p>Nextdata sixty years ocean reanalysis for the study of the Mediterranean Climate</p>	<p><b>V. MARLETTO</b>                      (Arpa ER)</p> <p>Adapting to climate change: MOSES, a new tool for irrigation water management</p>	
<p><b>S. CASERINI</b>                      (Politecnico di Milano)</p> <p>Decomposition analysis of GHG emissions at four geographic levels</p>	<p><b>G. COPPINI</b>                      (CMCC)</p> <p>A new on line service for marine environment and climate change assessment in the Mediterranean Sea</p>	<p><b>G. STANDARDI</b>                      (FEEM)</p> <p>Incremental water charging in agriculture. A case study for Regione Emilia Romagna in Italy</p>	

	<p><b>L. DROUET</b> (CMCC) Uncertainty decomposition of the mitigation costs estimates from the IPCC AR5</p>	<p><b>P. CASTAGNO</b> (Università di Napoli Parthenope) Long term variability of Antarctic Bottom Water precursors and climate indexes in the Pacific Sector of the Southern Ocean</p>	<p><b>A. TRABUCCO</b> (CMCC) Multi-purpose functioning of Pedra 'e Othoni reservoir, Sardinia, for energy production, agricultural and urban demand under climate change</p>	
13:00	LUNCH			

**THURSDAY, November 19, 2015 / h. 14.00 – 15.45**

14:00	<p><b>IRAN ROOM</b></p> <p><b>CLIMATE CHANGE RESPONSE ACTIONS</b></p> <p>Knowledge and technology to improve adaptive capacities</p> <p>CHAIR <b>Marina BALDI</b> (CNR IBIMET)</p>	<p><b>IRAQ ROOM</b></p> <p><b>OCEAN AND CLIMATE CHANGE ON THE WAY TO COP21</b></p> <p>Impact of the climate change on the biogeochemical ocean system</p> <p>CHAIR <b>Azadeh RAZAVI ARAB</b> (University of Tehran)</p>	<p><b>RED ROOM</b></p> <p><b>WATER, ENERGY AND FOOD NEXUS IN AGRICULTURE</b></p> <p>Energy-water nexus: opportunity and choices for agriculture</p> <p>CHAIR <b>F. BOSELLO</b> (Università Statale di Milano, CMCC, FEEM)</p>	<b>POSTER SESSION</b>
	<p><b>M. GIAMBERINI</b> (CNR)</p> <p>Ecopotential: improving future ecosystem benefits through Earth observation</p>	<p><b>V. PIERMATTEI</b> (University of Tuscia)</p> <p>C-CEMS: an integrated observatory for coastal monitoring</p>	<p><b>I. PORTOGHESE</b> (CNR – IRSA)</p> <p>Water Energy-Food-Nexus for Mediterranean Countries: an optimization perspective</p>	
	<p><b>A. FILPA</b> (University of Roma Tre)</p> <p>Climate Vulnerability Map of Rome (CVMR)</p>	<p><b>D. IUDICONE</b> (Stazione Zoologica Anton Dorn)</p> <p>Environmental forcings on the global ocean biological connectivity</p>	<p><b>M. BEVIONE</b> (FEEM)</p> <p>Global freshwater demand for electricity generation to 2100 under low carbon scenarios</p>	
	<p><b>A. FERRUZZA</b> (ISTAT)</p> <p>New challenges for official statistics for the understanding of extreme events and disasters</p>	<p><b>A. CONVERSI</b> (CNR)</p> <p>Ecological regime shifts: a scientific and socio-economic challenge in an increasingly changing world</p>	<p><b>F. EBOLI</b> (FEEM, CMCC)</p> <p>Economy-wide assessment of climate change impacts on agriculture: preliminary assessment based upon an ISI-MIP ensemble data</p>	
	<p><b>M. TIEPOLO</b> (Politecnico Torino)</p> <p>Risk analysis and evaluation to improve climate adaptation planning in Western Niger</p>	<p><b>M. SCHIAVINA</b> (Politecnico di Milano)</p> <p>Multidecadal North Atlantic Ocean circulation patterns and impacts on European eel larval migration</p>	<p><b>I. ALLOISIO</b> (FEEM)</p> <p>The Water-Food-Energy Nexus in the Mediterranean Basin</p>	
	<p><b>B. PIOTTO</b> (ISPRA)</p> <p>An adaptation option to face climate change in urban and peri-urban ecosystems: wildflowers for water saving and biodiversity enhancement</p>	<p><b>M. SAMMARTINO</b> (CNR – ISAC)</p> <p>Analysis of the spatial and temporal variability of the phytoplankton size classes in the Mediterranean Sea from SEAWIFS data</p>	<p><b>D. VITO</b> (Politecnico di Milano)</p> <p>Solar Pumping Systems for small-scale agricultural groundwater water supply: a proposal of application in a Indian village</p>	

	<p><b>D. MARAGNO</b> (University luav of Venice) New technologies and knowledge management for the climate change adaptation</p>	<p><b>F. MAFFUCCI</b> (Stazione Zoologica Anton Dorn) Thermal constraints on early dispersal may prevent poleward expansion of marine ectotherm with climate warming</p>	<p><b>G. BEZZI</b> (CIB - Consorzio Italiano Biogas e Gassificazione) Biogas done right in agriculture: implications for water savings and mitigation of emissions of greenhouse gases</p>		
	<p><b>V. GIANNINI</b> (CMCC) Sharing skills and needs between providers and users of climate information to enable decision making based on science: lessons from the Northern Adriatic case study</p>	<p><b>A. RAZAVI ARAB</b> (University of Tehran) Climate Change and Feasibility of Developing an Environmentally Sustainable Integrated Multi-Trophic Mariculture System in the Northern Persian Gulf Coastlines</p>	<p><b>I. GOMEZ</b> (OBSA) Sustainable camelina oil for biojet production without ILUC</p>		
15:45	COFFEE BREAK				

**THURSDAY, November 19, 2015 / h. 16.00 – 17.30**

16:00

<p><b>IRAN ROOM</b></p> <p><b>CLIMATE CHANGE RESPONSE ACTIONS</b></p> <p>Responding to extreme weather and climate events  <b>CHAIR Gioia GIBELLI</b>            (Società Italiana Ecologia del Paesaggio)</p>	<p><b>IRAQ ROOM</b></p> <p><b>OCEAN AND CLIMATE CHANGE ON THE WAY TO COP21</b></p> <p>Monitoring the Ocean climate change, integration of observation and modelling  <b>CHAIR G. SANNINO</b>            (ENEA)</p>	<p><b>RED ROOM</b></p> <p><b>CLIMATE CHANGE AND THE FUTURE OF LAND SYSTEM AND BIODIVERSITY</b></p> <p>Water resources and basin process  <b>CHAIR Fabio CASTELLI</b>            (Università di Firenze)</p>	<p><b>POSTER SESSION</b></p>
<p><b>T.E. AGBOR DELPHINE</b>            (National Institute of Cartography Cameroon)            The adverse effects of climate variability and change on the widikum community in Cameroon</p>	<p><b>F. ANTONIOLI</b>            (ENEA - SSPT MET CLIM)            Relative sea-level change along the Italian coast and projections for 2100: coastal plain impacts based on high-resolution DTMs and Geodetic data</p>	<p><b>R. VEZZOLI</b>            (CMCC)            Climate change impacts on Po River water availability at 2021-2050</p>	
<p><b>M.M. MALPEDE</b>            (FEEM)            The Role of Temperature in Estimating Residential Gas Consumption in the USA and Europe</p>	<p><b>M. ANZIDEI</b>            (INGV)            Relative sea level rise in the central Mediterranean from tide gauge data: implications for future projections and flooding scenario for the subsiding island of Lipari</p>	<p><b>M. PIRAS</b>            (Università degli Studi di Cagliari)            Climate change effects in a medium-sized Mediterranean Basin</p>	
<p><b>F. GARCIA SANCHEZ</b>            (University of Cantabria)            Climate change adaptation indicators for cities: do not reinvent the wheel</p>	<p><b>E. NAPOLITANO</b>            (ENEA)            Operational oceanography at the ENEA Climate Laboratory</p>	<p><b>D. BOCCHIOLA</b>            (Politecnico di Milano)            Climate change and the quest for water in the high towers of Asia</p>	
<p><b>E. RAMIERI</b>            (Thetis)            Community-based adaptation measures to climate change in the Lagoon of Carmen-Pajonal-Machona (Tabasco)</p>	<p><b>S. SIMONCELLI</b>            (INGV)            MyOcean Mediterranean Sea Reanalysis 1987-2013: focusing on the Algerian basin circulation</p>	<p><b>F. COMITI</b>            (Free University of Bozen-Bolzano)            Melting glaciers in mountain basins: measure today's runoff and sediment transport to understand tomorrow's river changes</p>	
<p><b>S. CALMANTI</b>            (ENEA)            A Climate Service prototype for drought early warning in Ethiopia</p>	<p><b>A. DI SARRA</b>            (ENEA)            The marine section of the station for climate observations at Lampedusa: an air-sea interaction observatory</p>	<p><b>G. GROSSI</b>            (Università degli Studi di Brescia)            The effects of climate change on the sediment yield in mountainous areas</p>	
<p><b>C. TRABACCHI</b>            (Climate Policy Initiative)            Making climate resilience a private sector business. insights from the agricultural sector in Nepal</p>	<p><b>L. SCARASCIA</b>            (CMCC)            Factors determining sea level variability and its deviation from the global mean in three marginal seas during 20th Century: Baltic, Adriatic and Black Sea</p>	<p><b>N. MONTALDO</b>            Historical climate change of the Sardinian hydrology: the dramatic runoff decrease in the last three decades</p>	

## FRIDAY, November 20, 2015

09:30	<p><b>RED ROOM</b></p> <p>Plenary lecture: <b>WATER RESOURCES, AGRICULTURE AND CLIMATE CHANGE</b></p> <p><b>Margarita ASTRÁLAGA</b> – IFAD, Director Environment and Climate Division</p> <p>Introduced by <b>Riccardo VALENTINI</b> – IPCC AR 5 Coord. Lead Author, Tuscia University</p>
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### FRIDAY, November 20, 2015, h. 10.00 – 11.15

	IRAN ROOM	IRAQ ROOM	RED ROOM	
10:00	<p><b>COP21, THE INDCs AND POLICIES TO ADDRESS CLIMATE CHANGE</b></p> <p>Challenges and opportunities in a post COP 21 world</p> <p>CHAIR <b>Francesco BOSELLO</b> (Università Statale di Milano, CMCC, FEEM)</p>	<p><i>THE PHYSICS OF CLIMATE CHANGE</i></p> <p><b>Climate Variability (I)</b></p> <p>CHAIR <b>Antonio NAVARRA</b> (CMCC)</p>	<p><b>CLIMATE CHANGE AND THE FUTURE OF LAND SYSTEM AND BIODIVERSITY</b></p> <p><b>Forest Deserts &amp; heat waves</b></p> <p>CHAIR <b>Pasquale SCHIANO</b> (CIRA, CMCC)</p>	<b>POSTER SESSION</b>
	<p><b>F. BOSELLO</b> (Università Statale di Milano, CMCC, FEEM)</p> <p>Building uncertainty into the mitigation adaptation decision: a risk premium approach</p>	<p><b>A. PASINI</b> (CNR - IIA)</p> <p>Multi-approach investigations for testing the robustness of attribution studies</p>	<p><b>S. MEREU</b> (Università di Sassari, CMCC)</p> <p>Does a higher functional diversity enhance the dynamic stability of forest ecosystem?</p>	
	<p><b>M. GRASSO</b> (Università degli Studi di Milano-Bicocca)</p> <p>The political feasibility of large-scale solar radiation management</p>	<p><b>E. SCOCCIMARRO</b> (CMCC, INGV)</p> <p>The role of high frequency atmosphere-ocean interaction in modulating tropical cyclone activity</p>	<p><b>D. GARZENA</b> (University of Turin)</p> <p>Evaluation of heat waves over the North Western Italian Alps</p>	
	<p><b>E. DELPIAZZO</b> (CMCC)</p> <p>Analyzing the coordinated impacts of climate policies for financing adaptation and development actions</p>	<p><b>D. MELONI</b> (ENEA)</p> <p>Radiative effect of desert dust in the Mediterranean</p>	<p><b>A. DI FILIPPO</b> (Università degli Studi della Tuscia)</p> <p>Tree-ring based regionalization of Climate-Change impact on BEeCH forests at different elevation across the temperate-Mediterranean biomes in Italy</p>	
	<p><b>S. CODERONI</b> (Università Politecnica delle Marche)</p>	<p><b>G. DALU</b> (CNR - IBIMET)</p>	<p><b>M. GALVAGNO</b> (Environmental Protection Agency of Aosta)</p>	

	The evolution of agricultural GHG emissions in Italy and the role of the cap. A farm-level assessment	Winds driven by the Sahara and by the West Africa heat low	Valley) Scorching alps: insights from the 2015 summer heat wave	
	<b>B. MENNE</b> (WHO) Benefits for health of climate action in the WHO European Region	<b>A. DELL'AQUILA</b> (ENEA) Evaluation of simulated decadal variations over the Euro-Mediterranean region from ENSEMBLES to Med-CORDEX	<b>SCIORTINO</b>  Climate impact on land degradation and desertification in Italy	
11:15	COFFEE BREAK			

**FRIDAY, November 20, 2015, h. 11.45 – 13.15**

11.45	IRAN ROOM	IRAQ ROOM	RED ROOM		
	<p><b>WATER, ENERGY AND FOOD NEXUS IN AGRICULTURE</b>  <b>Vulnerability and security in future agriculture production</b>                      CHAIR <b>Astrid AGOSTINI</b>                      (FAO)</p>	<p><b>THE PHYSICS OF CLIMATE CHANGE</b>   <b>Climate variability (II)</b>                      CHAIR <b>Antonello PASINI</b>                      (CNR - IIA)</p>	<p><b>CLIMATE CHANGE AND THE FUTURE OF LAND SYSTEM AND BIODIVERSITY</b>  <b>Geo - Hydrologic Risks</b>                      CHAIR <b>Pasquale SCHIANO</b>                      (CIRA, CMCC)</p>		
	<p><b>A. PONTRANDOLFI</b>                      (Council for Agricultural Research and Economics)                      Analysis of exposure and vulnerability of agricultural areas to climatic risk in Italy</p>	<p><b>V. PAVAN</b>                      (ARPA ER)                      The daily gridded climatic data set 1961-2010 for Emilia-Romagna (Italy)</p>	<p><b>B. BONACCORSO</b>                      (University of Messina)                      Detecting changes in annual maxima rainfall series at regional scale</p>		
	<p><b>E. RIDOLFI</b>                      (Università degli Studi di Perugia)                      Enhancing early warning systems with web mobile phone application</p>	<p><b>M. TEDESCO</b>                      (Columbia University)                      The contribution of the Greenland ice sheet to current and future sea level rise: a surface mass balance perspective</p>	<p><b>S. CAMICI</b>                      (CNR)                      Landslide and flood hazard assessment in a climate change environment</p>		
	<p><b>G. TAGLIACOZZO</b>                      (ISTAT)                      A cross-reading of official statistics production to improve the analysis of Climate Change related phenomena</p>	<p><b>H. KANAMARU</b>                      (FAO)                      Downscaling of climate change projections in support of adaptation planning</p>	<p><b>P. CLAPS</b>                      (Politecnico di Torino)                      The effect of global warming on floods in mountain catchments</p>	<b>POSTER SESSION</b>	
	<p><b>F. ROSSI</b>                      (CNR)                      The new urgency for agriculture: to be "climate smart"</p>	<p><b>M. TANahrTE</b>                      (Max Planck Institute for Chemistry)                      Heat extremes in the Middle East and North Africa (MENA) region in the past and the future</p>	<p><b>G. RIANNA</b>                      (CMCC)                      Potential climate changes in Italy and consequences on land stability</p>		
	<p><b>O. BALDERAMA</b>                      (Isabela State University)                      Aerobic rice technology: strategy of farmers to fight impacts of climate change in Cagayan Valley, Philippines</p>	<p><b>S. PIERINI</b>                      (Università di Napoli Parthenope)                      Exploring basic features of a changing climate: analysis of a low order model's pullback attractors</p>	<p><b>A. CANCELLIERE</b>                      (University of Catania)                      Estimation of landslide-triggering probabilities modification due to climate change</p>		
	<p><b>M. FUJISAWA</b>                      (FAO)                      Nation-wide assessment of climate change impacts on crops in the Philippines and Peru using MOSAICC tool</p>	<p><b>GIUNTOLI</b>                       Uncertainties in future water runoff over the United States</p>	<p><b>F. MATANO</b>                      (CNR)                      Trends in frequency of flash floods phenomena over the coastal urbanized areas of Campi Flegrei volcanic district, SW Italy</p>		
13:15	<b>LUNCH</b>				



**FRIDAY, November 20, 2015, h. 14.15 – 16.00**

14.15	IRAN ROOM	IRAQ ROOM	RED ROOM	
	<p><b>CLIMATE CHANGE RESPONSE ACTIONS</b>  <b>Building Resilience for Adaptation</b>  <b>CHAIR Stefano MARIANI</b></p>	<p><b>THE PHYSICS OF CLIMATE CHANGE</b>  <b>Climate variability (III)</b>  <b>CHAIR Stefano PIERINI</b>                      (Università di Napoli Parthenope)</p>	<p><b>CLIMATE CHANGE AND THE FUTURE OF LAND SYSTEM AND BIODIVERSITY</b>  <b>Biodiversity</b>  <b>CHAIR Anna LOY</b>                      (Università del Molise)</p>	<b>POST ER SESSI ON</b>
	<p><b>S. Di SABATINO</b>  <b>(University of Bologna)</b>                      How to identify critical issues in urban planning through the application of city breathability concepts: a short review</p>	<p><b>R. D'AGOSTINO</b>                      (University of Salento, CMCC)                      The effect of the global warming on Hadley Circulation trends in ECMWF centennial reanalyses</p>	<p><b>S. IMPERIO</b>                      (Monti Simbruini Regional Park, ATIt)                      Climate change effects on the distribution of large mountain herbivores</p>	
	<p><b>A. FARINA</b>                      (University of Urbino)                      Ecoacoustics, a New Tool to Monitor Climate Change</p>	<p><b>M. RUBINO</b>                      (Seconda Università di Napoli)                      Terrestrial uptake due to cooling responsible for low atmospheric CO2 during the little ice age</p>	<p><b>E. RECCHINI</b>                      (ISTAT)                      Impacts of climate change on ecosystems and biodiversity and challenges for official statistics</p>	
	<p><b>R. CERVIGNI</b>                      (The World Bank)                      Enhancing the climate resilience of africa's infrastructure: the power and water sectors</p>	<p><b>V. LEMBO</b>                      (University of Salento)                      Evolution of energy budget and Meridional transport in Amip-like experiments during the 20th Century</p>	<p><b>R. SANDULLI</b>                      (Università degli Studi di Napoli "Parthenope")                      The red coral populations of the gulfs of Naples and Salerno: global warming and deep mass mortalities</p>	
	<p><b>F. STEL</b>                      (Regional Agency for Environmental Protection of FriuliVenezia Giulia)                      Why are we not so effective? The non-technical aspects that can undermine our policies</p>	<p><b>C. CASSARDO</b>  <b>(University of Torino)</b>                      Weather Radar Based Short Term Climatological Analysis Of Severe Storms Over Northwestern Italy</p>	<p><b>A. MOTRONI</b>                      (Environmental Protection Agency of Sardinia)                      Climate change impacts on biodiversity: a GIS approach for bioclimatic studies and vegetation trends</p>	
	<p><b>F. POULAIN</b>                      (FAO)                      Enhancing Understanding Of The Impacts Of Climate Change, Climate Variability And Extreme Events On Fisheries And Aquaculture</p>	<p><b>F. CIOFFI</b>                      (University of Rome "La Sapienza")                      Exploring present and future linkages between Tanzania rainfall and large-scale circulation patterns by Non-Homogenous Hidden Markov model (NHMM)</p>	<p><b>F. BERZAGHI</b>                      (University of Tuscia)                      Indirect link to climate change: long-term effects of Megafauna on tropical forest structure and carbon cycling</p>	
	<p><b>F. DI TURO</b></p>	<p><b>L. SANGELANTONI</b></p>	<p><b>C. CERRATO</b></p>	

	(La Sapienza University Of Rome) Climate change impacts on cultural heritage materials in sinergies with air pollution: the European risk assessment	(Università Politecnica delle Marche) From regional to local climate scenario: the effects of a statistical bias correction on different spatial scale climate change signal	(CNR) Biodiversity monitoring in mountain ecosystems: a multi-taxa approach	
	<b>L. DAMNYAG</b> (Forestry Research Institute of Ghana) Tenure and 'carbon rights' in local redd + project: insights from community-based workshops in ankasa conservation area, Ghana	<b>P. FAGGIAN</b> (RSE) Climate change and fire risk in Italy	<b>P. MERCOGLIANO</b> (CMCC) A methodology to assess variation in shallow-landslides hazard induced by climate change	
16:00	COFFEE BREAK			
16:15	RED ROOM PLENARY SESSION: ITALIAN SCIENTIFIC SOCIETIES: INTEGRATED PERSPECTIVES ON CLIMATE TOWARD COP21			
17:00	END OF THE SYMPOSIUM			