



2016 ANNUAL MEETING



May 30 - June 01 2016
Marina di Ugento (LE)

	Monday, May 30 th		Tuesday, May 31 st		Wednesday, June 01 st		
	Roman Room	Greek Room	Roman Room	Greek Room	Roman Room	Greek Room	
08.45	WELCOME - A. Navarra						
09.00	QUANTIFICATION OF UNCERTAINTIES AND MODEL SKILLS S. Masina / P. Mercogliano	POSTERS	INTEGRATED ASSESSMENT MODEL DEVELOPMENT - GCAM F. Bosello / S. Gualdi	POSTERS	CLIMATE RISK IN AGRICULTURE J. Mysak / V. Bacciu	POSTERS	09.00
09.30							09.30
10.00							10.00
10.30	Coffee Break		Coffee Break		Coffee Break	10.30	
11.00	QUANTIFICATION OF UNCERTAINTIES AND MODEL SKILLS S. Masina / P. Mercogliano		INTEGRATED ASSESSMENT MODEL DEVELOPMENT - GCAM F. Bosello / S. Gualdi		CLIMATE RISK IN AGRICULTURE J. Mysak / V. Bacciu	11.00	
11.30							11.30
12.00							12.00
12.30	Lunch		Lunch		Final Wrap- up	12.30	
13.00	THE SCIENCE OF THE NATIONAL ADAPTATION PLANS V. Mereu, F. Bosello		BRIDGING RESEARCH INTO OPERATIONS: OPERATIONAL SERVICES AT CMCC M. Santini / G. Coppini		BRIDGING RESEARCH INTO OPERATIONS: OPERATIONAL SERVICES AT CMCC M. Santini / G. Coppini	13.00	
13.30							13.30
14.00		14.00					
14.30	Coffee Break	Coffee Break	Lunch	14.30			
15.00				15.00			
15.30				15.30			
16.00	THE SCIENCE OF THE NATIONAL ADAPTATION PLANS V. Mereu, F. Bosello	BRIDGING RESEARCH INTO OPERATIONS: OPERATIONAL SERVICES AT CMCC M. Santini / G. Coppini	BRIDGING RESEARCH INTO OPERATIONS: OPERATIONAL SERVICES AT CMCC M. Santini / G. Coppini	16.00			
16.30				16.30			
17.00				16.30			
17.00	MEETING PNACC	MEETING ON STRATEGIC PROJECT 4 "A MULTI-HAZARD PREDICTION AND ANALYSIS TESTBED FOR THE GLOBAL COASTAL OCEAN"		17.00			
17.30				17.30			
18.00				18.00			
18.30				18.30			
19.00				19.00			



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QUANTIFICATION OF UNCERTAINTIES AND MODEL SKILLS

S. Masina / P. Mercogliano

Monday, May 30th – h. 09.00 / 12.30 – Roman Room

09.00	Introduction
09.15	The new CMCC climate model: measuring skills and uncertainties A. Cherchi, T. Lovato, D. Iovino, P.G. Fogli, S. Masina
09.30	Uncertainty of land use – land cover change projections on climate L. Caporaso, M. Santini, A. M. Tompkins, L. Perugini
09.45	Spatio-temporal characterization of Mediterranean extreme precipitation: a multi-model assessment L. Cavicchia, E. Scoccimarro, S. Gualdi, D. Conte, A. Sanna and the Med-CORDEX modelling team
10.00	Using windows of opportunity in CMIP models' evaluation: the mid-20th century North Atlantic cooling case study A. Bellucci, A. Mariotti, S. Gualdi
10.15	A multiscale forecast and model validation from open sea to coastal harbour zones: the MREA experiment
10.30	Coffee Break
11.00	A framework to produce probabilistic climate-change projections for assessments of variations in geo-hydrological risks G. Rianna, A. Reder, V. Villani, P. Mercogliano
11.15	Mitigation and adaptation under climate change damage uncertainty: a risk premium approach A. Markandya, E. De Cian, L. Drouet, J. Polanco, F. Bosello
11.30	Posters presentation (3 min. each poster) <ul style="list-style-type: none">• Assessment of atmospheric re-analyses and AMIP experiments to force global and regional ocean re-analyses – A. Cherchi, SB. Ratna, S. Masina, A. Storto, C. Yang, C. Fratianni, S. Simoncelli, N. Pinardi• Performance evaluation of high-resolution COSMO-CLM simulations over Italy



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	<p>and China with respect to state-of-art CORDEX models – E. Bucchignani, P. Mercogliano, V. Villani, M. Montesarchio, A.L. Zollo</p> <ul style="list-style-type: none">• A critical examination of six observational datasets over the MENA-CORDEX domain for regional climate modeling evaluation – E. Bucchignani, P. Mercogliano, V. Villani, M. Montesarchio, A.L. Zollo• The Role of High Frequency Atmosphere-Ocean Interaction In Modulating Tropical Cyclone Activity” – E. Scoccimarro, P. G. Fogli, K. A. Reed, S. Gualdi, S. Masina, A. Navarra• Assessing the potential effects of Climate Changes on landslide phenomena affecting pyroclastic covers in Nocera area (Southern Italy) – A. Reder, G. Rianna, P. Mercogliano, L. Pagano• Using Different Spatial Scales of Climate Data for Regional Climate Impact Assessment: Effect on Crop Modeling Analysis – V. Mereu, A. Gallo, A. Trabucco, M. Montesarchio, P. Mercogliano, D. Spano, D.• Impact of the Southern Annular Mode on the surface mass balance of Antarctica through the Plio/Pliocene transition – F. Colleoni, E. Montoli, S. Masina, A. Cherchi, P. Fogli• CMCC-CESM-NEMO Performance Analysis – S. Mocavero, F. Mele, S. Fiore, G. Aloisio• Toward next-generation of Earth System Models: CMCC joint effort in CRESCENDO project – Lovato T., P.G. Fogli, A. Collalti, D. Peano, S. Materia, M. Zampieri, M. Santini, A. Cherchi, S. Masina• A 1/16° eddy simulation of the global ocean/sea ice system – Iovino D., S. Masina, A. Storto, A. Cipollone, V. Stepanov
12.00	Round Table - contributions by the CMCC Division Directors
12.30	Lunch



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THE SCIENCE OF THE NATIONAL ADAPTATION PLANS

V. Mereu, F. Bosello

Monday, May 30th – h. 13.30 / 17.00 – Roman Room

13.30	Guidelines and good practices to develop National Adaptation Plans V. Mereu
13.45	Climate zonation: remarks on its application at national level for impact and adaptation studies P. Mercogliano
14.00	Regional and territorial typologies for vulnerability assessment and adaptation J. Mysiak
14.15	Discussion
15.00	Coffee Break
15.30	Costs and priorities for adaptation: from the strategy to the plan F. Bosello
15.45	Monitoring and Evaluation of climate change adaptation at national level S. Medri
16.00	Adaptation and Mitigation: the case of Albania C. Chiriaco
16.15	Discussion
17.00	Meeting PNACC
19.00	



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INTEGRATED ASSESSMENT MODEL DEVELOPMENT - GCAM

F. Bosello / S. Gualdi

Tuesday, May 31st – h. 09.30 / 12.30 – Roman Room

09.30	Challenges and opportunities from consolidated forest and climate model integration. A. Collalti
09.50	Climate induced international migration and conflicts C. Cattaneo
10.10	General Discussion
10.30	Coffee Break
11.00	From climate predictions to predicting impacts: bridging the gap (requirements, limitations and methodologies) P. Athansiadis
11.20	Developing an harmonized gridded database for climate-environment-economics. Opportunities for integration F. Bosello, E. De Cian
11.40	General Discussion
12.00	Introduction to the GCAM model (teleconference – exact time and speaker to be confirmed)
12.30	Lunch



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BRIDGING RESEARCH INTO OPERATIONS: OPERATIONAL SERVICES AT CMCC

M. Santini / G. Coppini

Tuesday, May 31st – h. 13.30 / 17.00 – Roman Room

13.30	Introduction
13.35	Operational Climate Predictions at CMCC S. Gualdi
13.40	Cloud based solutions in support of operational services M. Mancini
13.45	Towards an operational global carbon observing system A. Bombelli
13.50	Functional traits as a tool to assess Mediterranean forests vulnerability to climate change S. Mereu
13.55	Copernicus Marine Mediterranean monitoring and forecasting services G. Coppini
14.00	Visir ship routing service G. Mannarini
14.05	Value of climate (adaptation) services J. Mysiak
14.10	Financial and economic services for regional climate adaptation J. Mysiak
14.15	Assessing the effects of climate change on urban pluvial flooding to provide a risk management framework (Poster) F. Ciervo
14.20	Fuel management strategies and potential wildfire mitigation: a case study from North Sardinia, Italy (Poster) V. Bacciu
14.25	Integrated risk analysis for multi-hazard assessment in marine areas: the case study of

	the Adriatic Sea (Poster) E. Furlan
14.30	A multi-disciplinary approach for the integrated assessment of multiple risks in delta areas (Poster) A.Sperotto
14.35	Copernicus Marine Black Sea monitoring and forecasting system (Poster) S. Ciliberti
14.40	Examples of operational activities and applications for maritime safety: SeaConditions, Ocean-SAR and Witoil (Poster) R. Lecci
14.45	The CMCC pre-operational global ocean eddy-resolving analysis and forecast system (GOF516): configuration and initial results (Poster) A. Storto
14.50	End-to-end workflow support for data analytics into operational environments (Poster) S. Fiore
14.55	SHYFEM parallelization: a domain decomposition approach (Poster) S. Mocavero
15.00	Coffee Break
15.30	Open Discussion with Session's Participants on presented topics, with focus on bridging research model outputs and customized end-user services by addressing the challenge of defining a business model for Decision Support Systems.
17.00 19.00	Meeting on Strategic Project 4 "A multi-hazard prediction and analysis testbed for the global coastal ocean"



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CLIMATE RISK IN AGRICULTURE

J. Mysak / V. Bacciu

Wednesday, June 01st – h. 09.00 / 12.30 – Roman Room

09.00	Scope and introduction
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CROP SUITABILITY AND YIELD MODELLING

09.10	Recent and projected increase of thermal suitability in Russian Federation due to climate change.
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A. Di Paola

09.20	Future changes in grapevine cultivation and carbon sequestration potential
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V. Mereu

09.30	Climate Risk in Agriculture: An Integrated Approach
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E. De Cian

09.40	Using seasonal climate forecasts in dynamic crop model to predict rice yield
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P. Athanasiadis

09.50	Panel and plenary discussion on inter-disciplinary and international cooperation
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Moderated by V. Bacciu

10.30	Coffee Break
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WATER AND FOOD SECURITY

11.00	Operational resilience of reservoirs to climate change, agricultural demand, and tourism
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A. Trabucco

11.10	Agriculture insurance - Revealed preference approach
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D. Pérez Blanco

11.20	Water allocation regime and reform
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J. Mysiak



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11.30	Assessing hydrological drought risk for the irrigation sector in future climate scenarios: lessons learned from the Apulia case study (Poster) S. Torresan
11.35	Potential impacts of climate change on nutrient pollution and effects on aquatic ecosystems (Poster) M. Pesce
11.40	Panel and plenary discussion on inter-disciplinary and international cooperation and the CMCC's strategic project Climate Risk in Agriculture Moderated by J. Mysiak
12.30	Final Wrap- up
13.00	Lunch



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POSTER SESSION

Tuesday, May 31st – Wednesday, June 01st

Greek Room

- 1. CLIMA - CMCC information Lifecycle Management platform**
M. Mancini, G. Calò, A. Raolil, M. Tridici, O. Marra, G. Aloisio
- 2. Assessment of atmospheric re-analyses and AMIP experiments to force global and regional ocean re-analyses**
A. Cherchi, SB. Ratna, S. Masina, A. Storto, C. Yang, C. Fratianni, S. Simoncelli, N. Pinardi
- 3. Performance evaluation of high-resolution COSMO-CLM simulations over Italy and China with respect to state-of-art CORDEX models**
E. Bucchignani, P. Mercogliano, V. Villani, M. Montesarchio, A.L. Zollo
- 4. A critical examination of six observational datasets over the MENA-CORDEX domain for regional climate modeling evaluation**
E. Bucchignani, P. Mercogliano, V. Villani, M. Montesarchio, A.L. Zollo
- 5. The Role of High Frequency Atmosphere-Ocean Interaction In Modulating Tropical Cyclone Activity”**
E. Scoccimarro, P. G. Fogli, K. A. Reed, S. Gualdi, S. Masina, A. Navarra
- 6. Assessing the potential effects of Climate Changes on landslide phenomena affecting pyroclastic covers in Nocera area (Southern Italy)**
A. Reder, G. Rianna, P. Mercogliano, L. Pagano
- 7. Using Different Spatial Scales of Climate Data for Regional Climate Impact Assessment: Effect on Crop Modeling Analysis**
V. Mereu, A. Gallo, A. Trabucco, M. Montesarchio, P. Mercogliano, D. Spano, D.
- 8. Impact of the Southern Annular Mode on the surface mass balance of Antarctica through the Plio/Pliocene transition**
F. Colleoni, E. Montoli, S. Masina, A. Cherchi, P. Fogli
- 9. CMCC-CESM-NEMO Performance Analysis**
S. Mocavero, F. Mele, S. Fiore, G. Aloisio
- 10. Toward next-generation of Earth System Models: CMCC joint effort in CRESCENDO project**
Lovato T., P.G. Fogli, A. Collalti, D. Peano, S. Materia, M. Zampieri, M. Santini, A. Cherchi, S. Masina
- 11. A 1/16° eddy simulation of the global ocean/sea ice system**
Iovino D., S. Masina, A. Storto, A. Cipollone, V. Stepanov
- 12. Assessing the effects of climate change on urban pluvial flooding to provide a risk management framework)**
Ciervo F., Rianna G., Mercogliano P.
- 13. Fuel management strategies and potential wildfire mitigation: a case study from North Sardinia, Italy**
Salis M., Bacciu V., Laconi M., Ager A.A., Alcasena F.J., Arca B., Lozano O., Del Giudice L., Spano D.
- 14. Integrated risk analysis for multi-hazard assessment in marine areas: the case study of the Adriatic Sea**
Furlan E., Torresan S., Donadello G., Critto A., Marcomini A.



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- 15. A multi-disciplinary approach for the integrated assessment of multiple risks in delta areas**
Sperotto A., Torresan S., Critto A., Marcomini A.
- 16. Copernicus Marine Black Sea monitoring and forecasting system**
Ciliberti S. et al.
- 17. Examples of operational activities and applications for maritime safety: SeaConditions, Ocean-SAR and Witoil**
Lecci R. et al.
- 18. The CMCC pre-operational global ocean eddy-resolving analysis and forecast system (GOFSS16): configuration and initial results**
Storto A. et al.
- 19. End-to-end workflow support for data analytics into operational environments**
Fiore S., Palazzo C., D'Anca A., Elia D., Williams D. N., Aloisio G.
- 20. SHYFEM parallelization: a domain decomposition approach**
S. Mocavero, G. Micaletto, G. Umgiesser, I. Federico, S. Fiore, G. Coppini, N. Pinardi, G. Aloisio
- 21. Assessing hydrological drought risk for the irrigation sector in future climate scenarios: lessons learned from the Apulia case study**
S. Torresan
- 22. Potential impacts of climate change on nutrient pollution and effects on aquatic ecosystems**
M. Pesce
- 23. Is a vineyard able to offset GHG emissions released during the grape production process?**
S. Marras, S. Masia, P. Duce, D. Spano, C. Sirca