

1st European Fully Coupled Atmospheric-Hydrological Modeling and WRF-Hydro Users workshop

University Club Hall at University of Calabria
Rende (Cosenza, Italy), June 11-13, 2014

11
June
09:00

1st session

Fully coupled atmo-hydro modeling approaches: State of the art

09:00 Rector, Head of Dept. speeches and introduction

09:30 Integrated Climate and Hydrology Modelling - catchment scale coupling of the HIRHAM regional climate model and the MIKE SHE hydrological Model
Keynote Speaker **Morten Andreas Dahl Larsen**
Technical University of Denmark

10:15 Integrated Hydrometeorological Predictions: A case study of the Colorado Front Range Flood of 2013
Oral Presentation **Dave Gochis**
NCAR, USA

10:45 Coupling WRF and HMS: a model system allowing simulations of the full atmospheric and terrestrial water balance at regional spatial and climate relevant temporal scales
Oral Presentation **Sven Wagner**
KIT, Campus Alpin, Germany

11:30 Evaluating coupled atmospheric-hydrological model systems: design and operation of hydrometeorological testbeds
Oral Presentation **Harald Kunstmann**
KIT, Campus Alpin & University of Augsburg, Germany

12:00 Performance of WRF-Hydro in complex terrain
Oral Presentation **Thomas Rummler**
University of Augsburg, Germany

12:30 Fully coupled WRF-Hydro atmospheric-hydrological modeling in a Mediterranean catchment
Oral Presentation **Alfonso Senatore**
University of Calabria, Italy

13:00 Evaluation of a fully coupled atmospheric-hydrological modeling system for the Sissili watershed in the West African Sudanian Savannah
Oral Presentation **Joel Arnault**
University of Augsburg, Germany

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14:15

2nd session

Enhancing process representation in fully coupled modeling systems

14:15 Coupled modeling of groundwater/surface water interactions: successes and challenges from recent applications
Keynote Speaker **Claudio Paniconi**
INRS-ETE, Canada

15:00 Saturated zone interaction within WRF-Hydro: from the bucket approach to a physically-based distributed groundwater representation
Oral Presentation **Benjamin Fersch**
KIT, Campus Alpin, Germany

15:30 Using the WRF-Hydro model for flood forecasting of 100 years flood event in Israel
Oral Presentation **Amir Givati**
Israeli Hydrological Service, Israel

16:00 WRF-Hydro simulation of the Himalayan Beas river basin
Oral Presentation **Lu Li**
Uni Climate, Norway

17:00 The ENKI Hydrologic Modeling Framework: A preprocessor for WRF-Hydro?
Oral Presentation **John Burkhart**
University of Oslo & Statkraft AS, Norway

17:30 OpenMI 2.0 based WRF - SWAT models integration
Oral Presentation **Andrey Bugaets**
FERHRI, Russian Federation

18:00 Simulation of a Flood event occurred in Istanbul in September 2009 by using the WRF-Hydro Model
Oral Presentation **Elcin Tan**
Istanbul Technical University, Turkey

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3rd session

The forecasting chain and other aspects of land-atmosphere coupling

09:00 Use of a fully distributed triangulated irregular network hydrologic model in climate change and ecohydrological studies
Keynote Speaker **Giuseppe Mascaro**
Arizona State University, USA

09:45 DRIHM and DRIHM2US: e-Infrastructures for hydro-meteo research
Oral Presentation **Fabio Delogu**
CIMA Research Foundation, Italy

10:15 The POLIMI forecasting chain for flood and drought predictions
Oral Presentation **Alessandro Ceppi**
Politecnico di Milano, Italy

10:45 Evaluation of hydrometeorological extremes using WRF-Hydro system
Oral Presentation **Ismail Yucel**
Middle East Technical University, Turkey

11:30 Towards a WRF-Hydro application for the Tana River basin of East Africa
Oral Presentation **Noah Kerandi**
University of Augsburg, Germany

11:50 High resolution numerical modeling of an idealized daytime Urban Heat Island circulation
Oral Presentation **Serena Falasca**
Sapienza University of Rome, Italy

12:10 Enhancement of Mercury emissions at the sea water atmosphere interface driven by regional climate changes
Oral Presentation **Christian Natale Gencarelli**
CNR-IIA, Italy

12:25 Influences of shipping emissions on Mediterranean air quality and radiative forcing
Oral Presentation **Christian Natale Gencarelli**
CNR-IIA, Italy

12:40 Estimation of the groundwater supply coming from the melting of the Chimborazo glacier (Ecuador)
Oral Presentation **Francesco Chidichimo**
University of Calabria, Italy