

IV Workshop

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VAISALA



HyMeX

HYdrological cycle in Mediterranean EXperiment

8-10 June 2010

Area della Ricerca CNR

Bologna, Italy



B O L O G N A

POSTER LIST

MWB = Mediterranean water budget: estimation, variability, future evolution

CHC = Continental hydrological cycle and water resources: regional modelling, evolution with global change

HPF = Heavy precipitation and flash-flooding: process studies, predictability, future evolution

IASF = Intense air-sea fluxes, including severe wind systems and their impacts on dense water formation

VAC = Vulnerability and adaptation capacity to climate change and extreme events

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| MWB01 | The MedCLIVAR project: a powerful networking scientific programme for promoting the research on the Mediterranean Climate <i>Tanzarella A., University of Salento</i> |
| MWB02 | PROMES-MOSLEF: An atmosphere-ocean coupled regional model. Coupling and preliminary results over the Mediterranean basin <i>Gallardo C., Institute of Environmental Sciences - UCLM</i> |
| MWB03 | Evaluation and comparison of regional climate models over the Iberian Peninsula <i>Sánchez de Cos M.E., AEMET</i> |
| MWB04 | Estimating the Mediterranean Sea Water and Heat Budgets: uncertainties in the observed estimates and in the Regional Climate Models <i>Somat S., Meteo-France/CNRM-GAME</i> |
| MWB05 | Use of CALIPSO lidar observations to characterize and evaluate the cloudiness simulated by the WRF model over the Mediterranean area: methodology and diagnostics <i>Bastin S., CNRS/INSU, IPSL/LATMOS</i> |
| MWB06 | Analysis of GPS water vapour variability over Morocco <i>Koulali Idrissi A., EMI</i> |
| MWB07 | Radiative fluxes, water vapour, clouds and aerosols observations at the island of Lampedusa <i>Meloni D., ENEA</i> |
| MWB08 | Aerosol extinction from N2 and O2 Raman signals, aerosol backscatter, and water vapour profiling with a monochromator based Raman LIDAR <i>Bolarín J., University of Murcia</i> |
| MWB09 | Ground-based and satellite observations of column water vapour in the central Mediterranean: spatio-temporal variability <i>Liberti G.L., ISAC CNR</i> |
| MWB10 | Impact of the parameterisation of the bottom friction on the deep convection and general circulation of the Mediterranean Sea <i>Lebeaupin Brossier C., Dynamic Meteorology Laboratory</i> |
| MWB11 | Development of a high resolution regional coupled ocean-atmosphere model for seasonal prediction and climate studies at IC3 <i>Shinde M., IC3</i> |
| MWB12 | Contribution to the Mediterranean Sea water and heat budget definition: links between the Tyrrhenian and the Liguro-Provencal sub basins <i>Schroeder K., CNR - ISMAR</i> |
| MWB13 | A 20-year (1989-2008) WRF/med-CORDEX simulation : validation and preliminary analysis <i>Bastin S., CNRS/INSU, IPSL/LATMOS</i> |
| MWB14 | The Climate Shift and the Climate Variability in the Mediterranean region. <i>Parages J.L., Complutense University of Madrid</i> |
| MWB15 | Influence of the Atlantic-Pacific interbasin connection on the Mediterranean summer precipitation <i>Losada T., UCM (Withdrawn)</i> |
| MWB16 | Experimental study of the seasonal characteristics of the breeze circulation at a coastal Mediterranean site in South Italy using surface and remote sensing devices <i>Sempreviva A.M., ISAC-CNR</i> |
| MWB17 | Impact of the Mediterranean Sea Surface Temperatures from a Weather Regimes Classification Approach <i>Polo I., University Complutense of Madrid</i> |
| MWB18 | Large-scale atmospheric response to eastern Mediterranean summer SST anomalies <i>Polo I., University Complutense of Madrid</i> |
| MWB19 | Teleconnections between the Atlantic Niño, WAM and Mediterranean variability in coupled global models <i>Losada T., UCM</i> |

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| MWB20 | Monitoring and modelling the dynamics of the Aegean-Levantine basins <i>Sofianos S., University of Athens</i> |
| MWB21 | Modelling the entire range of the water exchange variability through the Strait of Gibraltar <i>Sannino G., ENEA</i> |
| MWB22 | Mechanisms leading to rainfall anomalies in the Mediterranean region <i>Baldi M., CNR-IBIMET</i> |
| MWB23 | Sea level rise over the Mediterranean: present climate and scenario simulations <i>Ruti P.M., ENEA</i> |
| MWB24 | Adriatic – Ionian Interaction: The Bimodal Oscillating System (BiOS) <i>Gacic M., OGS</i> |
| MWB25 | Observationally based regional (Mediterranean area) characterization of spatial and temporal variability of water vapour. <i>Liberti G.L., ISAC CNR</i> |
| MWB26 | Precipitable water content from ground-based sun/sky radiometer measurements: development of a new in-situ procedure. <i>Campanelli M., ISAC-CNR</i> |
| MWB27 | Long-term monitoring of the hydrographic properties of water masses in the Adriatic Sea <i>Paschini E., ISMAR-CNR Ancona</i> |
| MWB28 | Evaporation and recent changes in Mediterranean Deep waters <i>Salat J., ICM-CSIC</i> |
| MWB29 | Diurnal cycle of cloud cover in COSMO-CLM over the Mediterranean Basin <i>Ahrens B., IAU, Goethe-University</i> |
| MWB30 | Establishing an international network of ground-based microwave radiometers for operational retrievals of atmospheric temperature and water vapour <i>Cimini D., IMAA/CNR</i> |

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| CHC01 | The ISAC-CNR micrometeorological base and database in Lecce <i>Martano P., ISAC-CNR</i> |
| CHC02 | Hydrometeorological modelling of the Laurentian Great Lakes using MESH <i>Fortin V., Environment Canada</i> |
| CHC03 | Hydrological cycle and extreme precipitation statistics over Croatia simulated with regional climate model <i>Patarcic M., Meteorological and Hydrological Service</i> |
| CHC04 | Uncertainties associated to the representation of surface processes in impact studies. A study in the Mediterranean area. <i>Martin E., CNRM-GAME (Météo-France, CNRS)</i> |
| CHC05 | Theoretical and experimental researches of seismo-electric effect in rocks <i>Fedoryshyn O., Carpatian Branch of Subbotin Institute of Geophysics</i> |
| CHC06 | Modelling interactions between surface and hydrosystems over the Crau Camargue region <i>Courault D., Chargée de Recherches (HDR)</i> |
| CHC07 | Methodology for the assimilation of regional climate model output in local climate change impact studies adopting physically-based models of eco-hydrological processes <i>Guyennon D., IRSA-CNR</i> |
| CHC08 | The effect of indiscriminate and spectral nudging on regional climate modelling <i>Omrani H., Dynamic Meteorology Laboratory</i> |
| CHC09 | A innovative collaborative web framework to model the integrated water cycle: from coastal basin to shallow marine waters <i>Cau P., CRS4</i> |
| CHC10 | A regional application of spatially distributed rainfall-runoff model for water resources estimation. <i>Montosi E., DISTART - University of Bologna</i> |
| CHC11 | The water cycle at large scale over West Africa: an updated view from the AMMA project <i>Bock O., IGN</i> |
| CHC12 | Climate data for hydrological modelling in the WASSERMed project <i>Pizzigalli C., CMCC</i> |
| CHC13 | Dynamical and statistical downscaling of precipitation and temperature in a Mediterranean area <i>Pizzigalli C., CMCC</i> |
| CHC14 | Impact of the South Asian monsoon on the Mediterranean climate <i>Tamura T., University of Tokio</i> |

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| HPF01 | Ensemble-based mesoscale data assimilation and 3D scanning lidar operations: Proposed Contributions of University of Hohenheim to HyMeX SOP 2012/13 <i>Behrendt A., University of Hohenheim</i> |
| HPF02 | Upstream wind field conditions in the western Mediterranean basin monitored by a network of wind profilers radars. <i>Saïd F., Laboratoire d'Aérodologie</i> |
| HPF03 | A Mediterranean atmospheric observatory in Corsica within the framework of HyMeX and ChArMEx <i>Lambert D., University of Toulouse</i> |
| HPF04 | Polarimetric radar observations of orographic impact on mesoscale precipitation events <i>Hagen M., DLR Institute for Atmospheric Physics</i> |
| HPF05 | Meteohydrological modelling and monitoring in Liguria (TA NW Mediterranean sea) <i>Cavallo A., ARPAL CFMI-PC</i> |
| HPF06 | Hi-resolution observational capabilities dedicated to the severe weather monitoring of the Greek peninsula. <i>Chronis T., HCMR</i> |
| HPF07 | Real time high-resolution forecast support for the HyMEX Special Observing Period: deterministic and ensemble strategies. <i>Nuret M., Météo-France</i> |
| HPF08 | Research Activities at CIMA Foundation and contributions to task teams activities <i>Boni G., CIMA Research Foundation</i> |
| HPF09 | Flash flood prediction for ungauged catchments <i>Garambois P.A., IMFT</i> |
| HPF10 | Meteo-hydrological predictions: testing different ensemble approaches <i>Davolio S., ISAC-CNR</i> |
| HPF11 | Comparison of LAPS analyses with EUMETSAT products for the characterization of cloud cover and instability indices in Mediterranean tropical-like cyclones <i>Conte D., ISAC-CNR</i> |
| HPF12 | Aerosol/cloud interactions in the Western Mediterranean during HYMEX <i>Gomes L., CNRM - GAME</i> |
| HPF13 | Towards a mesoscale Ensemble Prediction System for the north-western Mediterranean <i>Richard E., Laboratoire d'Aérodologie</i> |
| HPF14 | Lightning activity and precipitation in South of France from August to December between 1992 and 2008 <i>Coquillat S., LA University of Toulouse</i> |
| HPF15 | Analysis of radar quantitative precipitation estimates for medium-size catchment spatial scale <i>Amorati R., ARPA Emilia-Romagna</i> |
| HPF16 | Sensitivity simulations of the 12–13 November 2004 heavy precipitation event over southeastern Italy <i>Mastrangelo D., DISAM, Parthenope University of Naples</i> |
| HPF17 | Uncertainty reduction of the hydrological river stage forecasting during flash flood events <i>Nerozzi F., ARPA-SIMC</i> |
| HPF18 | Assimilation of polarimetric radar observations with the Arome model <i>Caumont O., CNRM-GAME</i> |
| HPF19 | Modelling long-lasting deep convective systems over sea in the Mediterranean basin <i>Pasqui M., CNR-IBIMET</i> |
| HPF20 | Relationships between High Precipitation Events (HPEs) and upper-level dynamics in a semi-idealized atmosphere <i>Maynard K., Météo-France</i> |

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| HPF21 | X-band and C-band radar differential phase measurements for rainfall estimation: analysis of co-located measures during a convective precipitation event in Piemonte <i>Cremonini R., ARPA Piemonte</i> |
| HPF22 | Rainfall reanalysis in the Cévennes-Vivarais region, France <i>Delrieu G., LTHE</i> |
| HPF23 | The Cévennes-Vivarais Mediterranean Hydrometeorological Observatory <i>Boudevillain B., LTHE</i> |
| HPF24 | Forecasting of large scale circulations propitious to Mediterranean Heavy Precipitating Systems with an operational ensemble prediction system at Météo France <i>Joly B., CNRM-GAME</i> |
| HPF25 | Idealized numerical study of Mediterranean heavy precipitating events : identification of favouring ingredients <i>Bresson E., CNRM-GAME</i> |
| HPF26 | 08/08/08: the olympic storm event and its implications about severe weather <i>Pucillo A., OSMER ARPA FVG</i> |
| HPF27 | The WAVATEB project: water vapour transport in the Ebro valley during HyMeX experiment <i>Ezcurra A., University Pais Vasco</i> |
| HPF28 | Post-food field surveys: an efficient way to gain experience on flash floods. Methodology and illustrations <i>Marchi L., CNR IRPI</i> |
| HPF29 | Uncertainties in short-term forecasts of a Mediterranean heavy precipitation event: Assessment with satellite observations <i>Chaboureau J.P., University of Toulouse-CNRS</i> |
| HPF30 | Rosby wave tracking applications for predictability studies <i>Grazzini F., ARPA-SIMC</i> |
| HPF31 | Exploring some uncertainties of flash-flood simulations with ISBA-TOPMODEL coupled system on Cévennes-Vivarais watersheds <i>Lespinas F., GAME/CNRM (Météo-France)</i> |
| HPF32 | Classifying severe rainfall events over Italy by hydrometeorological and dynamical criteria <i>Parodi A., CIMA Research Foundation</i> |
| HPF33 | Lightning measurements and its application for severe storm detection and nowcasting <i>Höller H., Institut for Atmospheric Physics</i> |
| HPF34 | ICT-based hydrometeorology science and natural disaster societal impact assessment: DRIHMS project <i>Parodi A., CIMA Research Foundation</i> |
| HPF35 | A network of disdrometers to investigate the variability of the raindrop size distribution <i>Berne A., EPFL-LTE</i> |
| HPF36 | RainMusic multi-instrument precipitation analysis: Application to the VOLTAIRE and MAP D-PHASE case studies <i>Mariani S., ISPRA</i> |
| HPF37 | An analysis of cyclones in relation with intense precipitation events in the Mediterranean region <i>Lionello P., University of Salento</i> |
| HPF38 | Evolution and growth of perturbations in a convection-resolving model <i>Uboldi F., Novate Milanese</i> |
| HPF39 | Numerical Simulations of Conditionally Unstable Flows over a Mountain Ridge <i>Miglietta M., ISAC-CNR</i> |
| HPF40 | Regional flood frequency analyses in the Mediterranean area involving extraordinary flood events at ungauged sites <i>Gaume E., LCPC</i> |
| HPF41 | Background Error Statistics at convective scale in precipitating areas: the challenge of including hydrometeors <i>Michel Y., Météo-France</i> |

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| HPF42 | Lightning activity in relation to thermodynamics, dynamics and microphysics in storms over Paris region <i>Buguet M., University Paul Sabatier</i> |
| HPF43 | A fundamental predictability study of orographically modified convection <i>Bongioannini Cerlini P., CRC University of Perugia</i> |
| HPF44 | Heavy precipitation systems observation at high resolution using Doppler Polarimetric measurements obtained with the FM-CW TARA radar <i>Dufournet Y., TU Delft - ATMOS</i> |
| HPF45 | Historical flash flood impact in Mallorca and its future evolution <i>Rossello J., University of Balearic Islands</i> |
| HPF46 | A microphysical study using radar/satellite data and WRF/MM5 high resolution model simulations for two events: Deep convection in the tropical area and a storm in the Mediterranean area. <i>Gentile S., CETEMPS/University of L'Aquila</i> |
| HPF47 | Planetary boundary layer of the urban area of Rome: High resolution model simulation (WRF) and ground based observations. <i>Pichelli E., CETEMPS/University of L'Aquila</i> |
| HPF48 | Dual polarization radar observations of precipitation events in the area of Rome <i>Baldini L., ISAC-CNR</i> |
| HPF49 | Effects of slope length and rain intensity variations on surface runoff: experiments and modelling in the Pradel OHMCV Super Site <i>Vandervaere J.P., LTHE</i> |
| HPF50 | Rainfall regimes in the Cévennes-Vivarais target area for HyMeX <i>Molinié G., LTHE-University of Grenoble 1</i> |

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| IASF01 | WRF Model and ASAR-retrieved sea surface wind field comparison in a case study over eastern Mediterranean Sea <i>Miglietta M., ISAC-CNR</i> |
| IASF02 | The CNR-ISMAR network of meteorological stations and marine observatories in the Northern Adriatic Sea <i>Sparnocchia S., CNR-ISMAR Trieste</i> |
| IASF03 | Marine Atmospheric Boundary Layer Observations over the Mediterranean Sea <i>Bozzano R., CNR-ISSIA</i> |
| IASF04 | Meteomarine observations from a buoy in Ligurian sea (TA NW Mediterranean sea) <i>Gallino S., ARPAL CFMI-PC</i> |
| IASF05 | Contributions of atmospheric and oceanic conditions to the exceptional 2005 event of deep water formation in the Northwestern Mediterranean basin <i>Herrmann M., CNRM-GAME, CNRS/Météo-France</i> |
| IASF06 | Characteristics of the wavenumber spectral decay of the near surface wind kinetic energy in the Mediterranean Sea <i>Zecchetto S., ISAC-CNR</i> |
| IASF07 | Storm surge modelling in the Mediterranean Sea with focus on the Italian coast <i>Ferrarin C., ISMAR - CNR</i> |
| IASF08 | Meteorological and Marine Time Series Collected Offshore in the Ligurian Sea <i>Bozzano R., CNR-ISSIA</i> |

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| VAC01 | Evolution of cropping systems as affected by climate change (CLIMESCO) <i>Ventrella D., Agricultural Research Council – CRA/SCA, Italy</i> |
| VAC02 | Statistical distributions of wildfire in Corsica: a multifractal approach <i>Silvani X., CNRS UMR 6134</i> |
| VAC03 | Socio-Hydro-Meteorological approach of Mediterranean flash flood risk <i>Ruin I., LTHE - Grenoble university</i> |