6th HyMeX Workshop

7 - 10 May 2012  Primošten, Croatia

WORKSHOP PROGRAMME

Organizers

DHMZ
INSTITUT ZA OCEANOGRAFIJI I KRAJESTVO SPLIT
HyMeX

Sponsors

PMF
CROATIA
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CEDVITA
MELEM
METEO FRANCE
### Monday, 7 May 2012

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<tr>
<td>08:30 - 09:30</td>
<td>Registration</td>
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<tr>
<td>09:00 - 09:30</td>
<td><strong>Opening session</strong></td>
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<tr>
<td></td>
<td>• Welcome address (Authorities and representatives):</td>
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<tr>
<td></td>
<td>Mr Ivan Čačić, Director of DHMZ and President of WMO RA VI</td>
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<td></td>
<td>Dr Ivona Marasović, Director of Institute of Oceanography and Fisheries</td>
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<td></td>
<td>Prof. dr. Zvjezdana Bencetić Klaić, Head of Geophysical Department, Faculty of Science</td>
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<td></td>
<td>Dr. Véronique Ducrocq (Chair Executive-ISSC)</td>
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<td>Dr. Philippe Drobinski (Vice-chair ISSC)</td>
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<td></td>
<td>• Practical information (Local Organizers)</td>
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<tr>
<td>09:30 - 10:00</td>
<td><strong>HyMeX Status</strong> (P. Drobinski, V. Ducrocq)</td>
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<tr>
<td>10:30 - 11:00</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:00 - 11:15</td>
<td><strong>ST1 - Plenary session - Science talks</strong></td>
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<tr>
<td></td>
<td><strong>Flash-floods and Heavy Precipitation</strong></td>
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<td></td>
<td><strong>Chairs: A. Boone, U. Corsmeier</strong></td>
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<tr>
<td>11:15 - 11:30</td>
<td><strong>ST1.1 –</strong> The FLOODSCALE project – “Multi-scale hydrometeorological observation and modelling for flash-floods understanding and simulation”</td>
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<tr>
<td></td>
<td>I. Braud, C. Bouvier, G. Delrieu, S. Perez, FloodScale participants</td>
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<tr>
<td>11:30- 11:45</td>
<td><strong>ST1.2 –</strong> Estimating peak discharges of extreme flash-flood events</td>
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<tr>
<td></td>
<td>E. Gaume and D. Lumbroso</td>
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<tr>
<td>11:30- 11:45</td>
<td><strong>ST1.3 –</strong> The Flash-flood of October 2011 in the Magra river (Italy): results of post-event documentation</td>
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<td>L. Marchi, M. Borgia, M. Cavalli, F. Comiti and F. Marra</td>
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<tr>
<td>11:45 - 12:00</td>
<td><strong>ST1.4 –</strong> An Hydrological description of the 4th November 2011 event in Genoa</td>
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<td>S. Gabellani, F. Giannoni, N. Rebora, R. Rudari, F. Siccard and F. Silvestro</td>
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<tr>
<td>12:00 - 12:15</td>
<td><strong>ST1.5 –</strong> Preliminary analyses of heavy precipitation events over Liguria: sensitivity experiments</td>
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<td>S. Davolio</td>
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<tr>
<td>12:15 - 12:30</td>
<td><strong>ST1.6 –</strong> An analysis of three disastrous rain events occurred in Italy: Rome, Cinque Terre and Genoa</td>
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<tr>
<td></td>
<td>R. Ferretti, G. Panegrossi, R. Rotunno, E. Picchelli, F. Marzano, E. Picciotti, G. Vulpiani and S. Dietrich</td>
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<tr>
<td>12:30- 12:45</td>
<td><strong>ST1.7 –</strong> Evaluation of the AROME_WMED MODEL for the autumn 2011 period</td>
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<td>M. Nuret, N. Fournié, E. Bresson, A. Jansa, S. Guedj, C. Payan and V. Guidard</td>
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<td>12:45 - 13:00</td>
<td><strong>ST1.8 –</strong> The HyMeX database</td>
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<td>L. Mastrorillo, K. Ramage, J.-L. Boichard, G. Brissebrat, S. Cloché and L. Fleury</td>
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<tr>
<td>13:00 - 14:30</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14:30 - 14:40</td>
<td><strong>S1- Plenary session – SOP preparation &amp; coordination</strong></td>
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<tr>
<td></td>
<td>Overview of the SOP1 and SOP2 observation strategy</td>
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<tr>
<td>14:40 - 16:00</td>
<td>Research Instrumentation of the hydrological and atmospheric sites</td>
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<tr>
<td>16:00 - 17:00</td>
<td><strong>PS1 – Poster session and coffee break</strong></td>
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<tr>
<td>17:00 - 18:30</td>
<td><strong>S2- Plenary session – SOP preparation &amp; coordination</strong></td>
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<td>Atmospheric and hydrological mobile platforms</td>
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<tr>
<td>19:00 - 20:00</td>
<td><strong>Welcome reception</strong></td>
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### Tuesday, 8 May 2012

#### ST2 - Plenary session - Science talks

##### Heavy Precipitation  
*Chair: R. Romero*

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
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<tr>
<td>09:00 - 09:30</td>
<td><strong>ST2.1</strong> – Heavy precipitation in the Mediterranean - facts, questions and challenges (solicited)</td>
<td>H. Wernli</td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td><strong>ST2.2</strong> – Mesoscale triggering of the heavy precipitation event in the southern Adriatic area</td>
<td>B. Ivancan-Picek, K. Horvath, N. Strelec Mahovic and M. Gajic-Capka</td>
</tr>
<tr>
<td>09:45 - 10:00</td>
<td><strong>ST2.3</strong> – The dependance of convective precipitation on atmospheric conditions in Corsica</td>
<td>B. Adler, S. Späth and N. Kalthoff</td>
</tr>
<tr>
<td>10:00 – 10:15</td>
<td><strong>ST2.4</strong> – Sensitivity of deep convection to terrain forcing over Corsica</td>
<td>C. Barthlot and D. Kirshbaum</td>
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##### Vulnerability and adaptation capacity  
*Chair: C. Llasat*

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>10:15 – 10:30</td>
<td><strong>ST2.5</strong> – Impact of extreme events on people along the road network of Mediterranean region</td>
<td>O. Petrucci and A.E. Pasqua</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:00 - 11:15</td>
<td><strong>ST2.6</strong> – Post-event field investigations: a socio-hydro-meteorological experimentation of flash-flood events in the Var (France)</td>
<td>I. Ruin, B. Boudevillain, J.D. Creutin, C. Lutoff, S. Anquetin, L. Creton-Cazanave, G. Delrieu and O. Vannier</td>
</tr>
<tr>
<td>11:15 - 11:30</td>
<td><strong>ST2.7</strong> – Territorial vulnerability and damage analysis model for flash-floods: A Mallorca study case</td>
<td>M. Ruiz Perez and M. Grimalt Gelabert</td>
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#### P1 – Parallel science discussions

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<th>Time</th>
<th>Session Title</th>
<th>Chairs</th>
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<tr>
<td>11:30-13:00</td>
<td><strong>P1.1</strong> – WG4</td>
<td>S. Belamari, M. Herrmann, J. Salat, P. Testor</td>
</tr>
<tr>
<td>11:30-13:00</td>
<td><strong>P1.2</strong> – WG5/WG3</td>
<td>E. Gaume, C. Llasat, L. Marchi, I. Ruin</td>
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<tr>
<td>13:00 - 14:30</td>
<td><strong>Lunch</strong></td>
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#### S3- Plenary session – SOP preparation & coordination

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<th>Time</th>
<th>Session Title</th>
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<tr>
<td>14:30 - 16:00</td>
<td>Ocean operations (SOP1 &amp; SOP2)</td>
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<tr>
<td>16:00 - 17:00</td>
<td><strong>PS2</strong> – Poster session and coffee break</td>
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#### S4- Plenary session – SOP preparation & coordination

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<th>Time</th>
<th>Session Title</th>
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<tr>
<td>17:00 - 18:30</td>
<td>Operation coordination during SOP1</td>
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### Wednesday, 9 May 2012

#### ST3 - Plenary session - Science talks

**The Continental Hydrological Cycle, Water Resources**

*Chair: A. Chanzy, J.L. Roujean*

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<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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| 09:00 - 09:30 | **ST3.1** – The MedCORDEX initiative: coordinated exercise with fully coupled Regional Climate System Models to study the Mediterranean climate variability and change (solicited)  
S. Somot, P. Ruti and the MedCORDEX team |
| 09:30 - 09:45 | **ST3.2** – Drought monitoring: towards the integration of satellite products into continental hydrological models  
| 09:45 - 10:00 | **ST3.3** – Comparison and validation of two meteorological analysis systems in the Northeast of Spain  
P. Quintana Seguí, M.C. Peral García, M. Turco, J.D. Salas Pérez, M. Llasat and E. Martin |
| 10:00 – 10:15 | **ST3.4** – Stochastic rainfall downscaling of the PROTHEUS regional climate models  
D. D’Onofrio, V. Artale, S. Calmanti, J. von Hardenberg, E. Palazzi and A. Provenzale |
| 10:15 – 10:30 | **ST3.5** – Effects of interacting vegetation phenology on heat waves  
M. Stéfanon, P. Drobinski, F. D’Andrea and N. De Noblet |
| 10:30 – 11:00 | **Coffee Break** |
| 11:00 – 11:15 | **ST3.6** – Modelling water balance and biomass production at the regional scale: Example of Crau area  
R. Lecerf, A. Chanzy and A. Olioso |
| 11:15 – 11:30 | **ST3.7** – A climate change impact study on a carbonate aquifer in Southern Italy  
I. Portoghese, M. Vurro and E. Bruno |

#### P2 – Parallel science discussions

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<tr>
<th>Time</th>
<th>WG</th>
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</table>
| 11:30-13:00 | **P2.1** – WG1/WG2  
*Chairs: P. Drobinski,* |
| 11:30-13:00 | **P2.2** – WG3  
*Chairs: C. Barthlott, I. Braud, S. Davolio, V. Ducrocq, R. Ferretti, E. Richard* |
| 13:00 - 14:30 | **Lunch** |

#### ST4 - Plenary session - Science talks

**Heavy Precipitation**

*Chairs: R. Ferretti, M. Tudor*

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<tr>
<th>Time</th>
<th>Presentation</th>
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| 14:30 - 14:45 | **ST4.1** – Impact study of MEDEX-2009 Data targeting using the HIRLAM system  
J. Campins and B. Navascués |
| 14:45 - 15:00 | **ST4.2** – Testing DTS sensitivity methods for Mediterranean high-impact weather targeting guidance  
L. Garcies and V. Homar |
| 15:00 - 15:15 | **ST4.3** – Sensitivity of an intense HPE to upper-level PV modifications derived from a PV advection model  
S. Fresnay, K. Maynard, P. Arbogast, D. Lambert and E. Richard |
| 15:15 - 15:30 | **ST4.4** – A large ensemble of data assimilations for studying forecast errors and predictability over the Mediterranean  
Y. Michel, R. Legrand, B. Ménétrier and T. Montmerle |
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<tr>
<th>Time</th>
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</table>
| 15:30 - 15:45| **ST4.5** – Towards the development of a convection-permitting ensemble based on the COSMO model over Italy  
C. Marsigli, A. Montani and T. Paccagnella |
| 15:45 - 16:00| **ST4.6** – Explicit simulations of electrified mixed-phase clouds in MESO-NH: Towards real-case studies for HyMeX  
J.-P. Pinty, C. Barthe, E. Defer, E. Richard and M. Chong |
| 16:00 - 17:00| **PS3** – Poster session and coffee break |
| 18:00 -      | **Workshop Dinner** |
### Thursday, 10 May 2012

#### ST5 - Plenary session - Science talks

**The Mediterranean Water Budget**

*Chairs: B. Ahrens, I. Taupier-Letage*

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<tr>
<th>Time</th>
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<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>09:00 - 09:30</td>
<td>ST5.1 – Does the thermohaline circulation weaken in the Adriatic Sea? (solicited)</td>
<td>I. Vilibić, J. Šepić and N. Proust</td>
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<tr>
<td>09:30 - 09:45</td>
<td>ST5.2 – To what extent do atmospheric modes of variability determine Mediterranean surface heat and freshwater exchanges?</td>
<td>S. Josey</td>
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<tr>
<td>09:45 - 10:00</td>
<td>ST5.3 – Towards a 1993-2013 Mediterranean Sea reanalysis</td>
<td>J. Beuvier, J. Lelouche, K. Beranger, Y. Drillet, S. Somot, R. Bourdallé-Badie, M. Benkiran, F. Sevault, T. Arsouze and B. Alhammoud</td>
</tr>
<tr>
<td>10:00 - 10:15</td>
<td>ST5.4 – Resolving explicitly the Black Sea in the Mediterranean Sea simulations using an atmosphere-ocean coupled model</td>
<td>A. Elizalde and U. Mikolajewicz</td>
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<td>10:15 - 10:30</td>
<td>ST5.5 – Impact of the near Atlantic Ocean characteristics on the Mediterranean water budget using the CNRM-RCSM</td>
<td>C. Dubois, S. Somot, F. Sevault</td>
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<tr>
<td>10:30 - 11:00</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>11:00 - 11:45</td>
<td>ST5.6 – Modeling the mesoscale oceanic circulation in the eastern Mediterranean Sea during the EGYPT campaign</td>
<td>T. Arsouze, M. Dorel, K. Béranger, I. Taupier-Letage, J. Beuvier, R. Bourdallé-Badie, Y. Drillet and A. Stegner</td>
</tr>
<tr>
<td>11:15 - 11:30</td>
<td>ST5.7 – A modification for sea evaporation estimates based on the stratification of the atmospheric contact layer</td>
<td>J. Salat, M. Umbert, J. Ballabrera</td>
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<tr>
<td>11:30 - 11:45</td>
<td>ST5.8 – Impact of regional model configuration on the representation of Mediterranean wind variability and intense events.</td>
<td>M. Herrmann, S. Somot, S. Calmanti, C. Dubois and F. Sevault</td>
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<tr>
<td>11:45 - 12:00</td>
<td>ST5.9 – High-resolution modelling of the oceanic circulation and winter vertical mixing in the Northwestern Mediterranean</td>
<td>P. Damien, C. Estournel and P. Marsaleix</td>
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<tr>
<td>12:00 - 12:15</td>
<td>ST5.10 – A two-way coupling of the Adriatic Sea circulation and wave models</td>
<td>M. Dutour Sikiric, A. Roland, I. Janezovic, M. Kuzmic and I. Tomazic</td>
</tr>
<tr>
<td>12:15 - 12:30</td>
<td>ST5.11 – The analysis of Bora flow over the complex orography of the mid-Adriatic region</td>
<td>K. Horvath, Ž. Večenaj and B. Grisogono</td>
</tr>
<tr>
<td>12:30 - 12:45</td>
<td>ST5.12 – First steps towards a quantitative assessment of Medicane risk under future climate conditions</td>
<td>M. Tous, R. Romero and J. Martin</td>
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<tr>
<td>12:45 - 13:00</td>
<td>ST5.13 – AROME -WMED, a mesoscale model designed for the HyMeX special observation periods</td>
<td>N. Fournié, M. Nuret, E. Bresson, P. Brousseau</td>
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<td>13:00 - 14:30</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14:30</td>
<td>ST6.1</td>
<td>Relationships between lightning activity, microphysics, and kinematics during a</td>
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<td>ST6.2</td>
<td>Retrieval of 3D Multiple-Doppler wind analyses and wind field derivatives from RHYTMME and ARAMIS radars in the French Mediterranean Alps</td>
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<tr>
<td>15:00</td>
<td>ST6.3</td>
<td>Influence of the DSD variability at the radar subgrid scale on radar power laws</td>
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<tr>
<td>15:15</td>
<td>ST6.4</td>
<td>RASTA: The airborne cloud radar, a tool for studying cloud and precipitation during HyMeX SOP1</td>
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<tr>
<td>15:30</td>
<td></td>
<td>Summary and closing remarks (P. Drobinski, V. Ducrocq, B. Ivancan-Picek)</td>
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PS1. Poster session – Monday 7 May, 16:00-17:00

**PS1.1 FIRST FLIGHTS OF THE NEW BAMED BOUNDARY LAYER PRESSURIZED BALLOONS**
Doerenbecher A., Basdevant C., Bernard F., Verdier N., Cocquerez P., Drobinski P.

**PS1.2 CORSICA: A MEDITERRANEAN ATMOSPHERIC OBSERVATORY IN CORSICA - SCIENTIFIC OBJECTIVES AND DEPLOYMENT STRATEGY FOR HYMEX**

**PS1.3 THE LAMP HIGH RESOLUTION X BAND RADAR PLATFORM: MONITORING AND INVESTIGATION OF PRECIPITATION HETEROGENEITY.**
Van BaeLEN J., Pointin Y., Mioche G.

**PS1.4 UPDATE ON THE INSTRUMENTATION, DATA/PRODUCTS AND ANALYSIS STRATEGY OF THE HYMEX LIGHTNING TASK TEAM TTO1H**
Defer E., TTO1h Team T.

**PS1.5 A FIRST OVERVIEW OF TARA CONTRIBUTIONS AS FORESEEN FOR THE SOP 1.1 IN SOUTH FRANCE**
DuFOURNET Y.

**PS1.6 HIGH-RESOLUTION RAINFALL SAMPLING: HPICONET**
Molinie G., Boudevillain B., Gerard S., Berne A., Biron R., Jaffrain J., Studzinski A., Anquetin S., Creutin J.1, Delrieu G.

**PS1.7 STRATEGY OF THE PROFILING FLOATS TO TRACK THE DEEP CONVECTION IN THE GULF OF LION**
Coppola L., Taupier-Letage I., Belamari S.

**PS1.8 I-DEWEX: AN INTENSIVE OBSERVATION/MODELLING PROGRAM IN THE NORTH-WESTERN MEDITERRANEAN COMPLEMENTARY TO HYMEX**
Estournel C., Conan P., D'Ortenzio F., Durrieu de Madron X., Testor P.

**PS1.9 CHARACTERIZATION OF THE ERRORS ASSOCIATED WITH THE ESTIMATION OF THE SPECIFIC DIFFERENTIAL PHASE SHIFT**
Grazioli J., Berne A.

**PS1.10 VERTICAL PROFILES OF X-BAND WEATHER RADAR OBSERVABLES DURING SNOWFALL IN THE SWISS ALPS**
SchneeBELI M., Berne A.

**PS1.11 X BAND POLARIMETRIC & DOPPLER RADAR OBSERVATIONS OF PRECIPITATION VARIABILITY OVER THE MEDITERRANEAN REGION (FRANCE)**
Rysman J., Lemaître Y., Moreau E.

**PS1.12 ASSIMILATION OF RADAR DATA IN THE AROME WMED MODEL AT CONVECTIVE SCALE**
Wattrelot E., Montmerle T., Geijo Guerrero C.

**PS1.13 FORECAST ERRORS IN CLOUDS AND PRECIPITATION FOR THE ASSIMILATION OF CLOUDY RADIANCES AND RADAR DATA**
Montmerle T., Michel Y., Martinet P.

**PS1.14 A RADAR REFRACTIVITY CHANGE OBSERVATION OPERATOR FOR A CONVECTIVE-SCALE MODEL: COMPARISON OF OBSERVATIONS AND SIMULATIONS**
Caumont O., Foray A., Besson L., Parent du Châtelet J.

**PS1.15 AN OBSERVATION OPERATOR TO COMPARE WIND PROFILER MASS OBSERVATIONS WITH CONVECTIVE-SCALE MODEL OUTPUTS**
Caumont O., Nawanti K. Y., Saïd F., Bousquet O.

**PS1.16 COMPARISON OF WRF 3D-VAR WITH THE DART ENKF FOR A COPS IOP**
Grzeschik M., Schwitalla T., Bauer H., Wulfmeyer V.

**PS1.17 SEEKING AN OPTIMAL BOLAM CONFIGURATION FOR HYMEX TS7A: AN INTERCOMPARISON STUDY USING MAP D-PHASE DATASETS**
Casaioli M., Mariani S.
PS1.18 INFLUENCE OF THE ASSIMILATION SYSTEM AT DHMZ TO FORECAST OF THE 2 M PARAMETERS
STANESIĆ A., Kovačić T., Ivatek-Šahdan S., Horvath K., Tudor M., Bajić A.

PS1.19 A DIAGNOSTIC STUDY OF THE BACKGROUND ERROR STATISTICS OVER THE WIDER ADRIATIC REGION
HORVATH K., Stanesić A., Kovačić T

PS1.20 A COMPARISON OF GPS ATMOSPHERIC PRODUCTS FOR WEATHER FORECASTING AND CLIMATE MONITORING
BOCK O., Bosser P., Garayt B., Duquesnoy T.

PS1.21 VERIFICATION OF MODEL PREDICTION OF CLOUD COVER AND RAIN BY SATELLITE OBSERVATION
CHABOUREAU J.P., Alhammoud B., Funatsu B. M., Lebeaupin-Brossier C., Claud C., Nuissier O., Béranger K., Drobinski P.

PS2. Poster session – Tuesday 8 May, 16:00-17:00

PS2.1 THE SOIL MOISTURE-TEMPERATURE FEEDBACK DURING HEAT WAVES IN MED-CORDEX SIMULATIONS
STÉFANON M., Drobinski P., D’Andrea F., Lebeaupin-Brossier C.

PS2.2 EVALUATION OF THE NUMERICAL FORECAST OF THE CONVECTIVE PRECIPITATION OVER CROATIA
MAZZOCCHI DRVAR D., Telišman Prtenjak M., Lebeaupin Brossier C.

PS2.3 ASSESSMENT OF EVAPOTRANSPIRATION AND BIOPHYSICAL VARIABLES FROM VARIOUS REMOTE SENSING
DATA ACQUIRED ON THE HYMEX PILOT SITE: ‘THE CRAU CAMARGUE REGION’
COURAULT D., Mira M., Castillo S., Weiss M., Gallego B., Marloie O., Hagolle O., Olioso A.

PS2.4 MULTIDECADAL MODULATION OF EL NIÑO INFLUENCE ON THE EURO-MEDITERRANEAN RAINFALL
LOPEZ-PARAGES J., Rodriguez-Fonseca B.

PS2.5 DROUGHT RISK ASSESSMENT ALONG THE EASTERN ADRIATIC COAST
CINDRIĆ K., Pasarić Z., Gajić-Čapka M.

PS2.6 MODELLING CLIMATE CHANGE IMPACTS ON EXTREME Drought OVER PENINSULAR SPAIN
GARCÍA GALIANO S. G., Giraldo Osorio J. D.

PS2.7 NON-STATIONARY INFLUENCE OF THE MEDITERRANEAN ON WEST AFRICAN RAINFALL: EXTERNAL
CONTRIBUTORS AND MULTIDECADAL MODULATIONS
RODRIGUEZ-FONSECA B., Gaetani M., Losada T., Mohino E., Polo I., Suárez R., Pasqui M.

PS2.8 MONITORING ATMOSPHERE AND OCEAN VARIABILITY -VIRTUAL LABORATORY
MATIĆ F., Grbec B., Morović M.

PS2.9 THE HYMEX DATABASE ON SOCIETAL IMPACT OF FLOODS
LLASAT M. C., Llasat-Botija M., Petrucci O., Pasqua A. A., Rosselló J., Grimalt M., Vinet F., Boisier L.

PS2.10 FLOODS IN CROATIA - SOCIETAL AND ECONOMIC IMPACTS AND RESPONSES IN THE NEWSPAPERS
GAJIC-CAPKA M., Sokol Jurkovic R., Nikolic D., Capka B.

PS2.11 SOCIAL ANALYSIS OF HIGH INTENSITY RAIN EVENTS (MAY – OCTOBER 2011) IN CATALONIA
AMARO J., Barberia L., Aran M., Llasat M. C.

PS2.12 REGIONAL FLOOD FREQUENCY STUDIES IN FLASH FLOOD PRONE AREAS: POSSIBILITIES AND RISKS
CONG N. C., Payrastre O., Gaume E.

PS2.13 REPORT ABOUT THE FLOOD OCCURED ON NOVEMBER 22, 2011 IN BARCELLONA (SICILY)
ARONICA G. T., Gaume E., Marchi L.

PS2.14 POST-EVENT SURVEYS OF FLASH FLOODS IN THE POLLENSA BASIN (MALLORCA, SPAIN)
GRIMALT M., Rossello J.

PS2.15 A DEDICATED HYDROMETEOROLOGICAL ENSEMBLE PREDICTION CHAIN FOR FLASH-FLOODS DURING THE
HYMEX NW_MED SOP.
NUISSIER O., Vié B., Vincendon B.

PS2.16 ENSEMBLE SIMULATIONS WITH PERTURBED PHYSICAL PARAMETRISATIONS: PRE- HYMEX CASE STUDIES
HALLY A., Fresnay S., Richard E., Lambert D.

PS2.17 METEOROLOGICAL ENSEMBLES DRIVING HYDROLOGICAL PREDICTIONS: SINGLE- AND MULTI-MODEL
APPROACHES
DAVOLIO S., Diomede T., Marsigli C., Miglietta M. M., Montani A.

PS2.18 CLOUD-PERMITTING SIMULATION OF THE TORRENTIAL RAINFALL EVENT IN GENOA (LIGURIA, ITALY) ON
NOVEMBER 4TH, 2011
PS3. Poster session – Wednesday 9 May, 16:00-17:00

**PS3.1 SENSITIVITY OF THE CIRCULATION IN THE STRAIT OF SICILY TO A HIGH RESOLUTION ATMOSPHERIC FORCING**
OMRANI H., Mairech H., Drobinski P., Beranger K., Lebeaupin Brossier C., Bastin S., Boukthir M.

**PS3.2 FULLY COUPLED MODELING OF THE OCEAN WAVE - ATMOSPHERE INTERACTIONS ON LOCAL SCALES**
ROLAND A., Cavaleri L., Dutour-Sikiric M., Bertotti L., Torrisi L.

**PS3.3 FREQUENCY OF RAPID CHANGES IN SURFACE PRESSURE OVER MEDITERRANEAN**
TUDOR M.

**PS3.4 EVALUATION OF RCM AGAINST LONG-TERM IN-SITU BUOYS DATASET**
LEBEAUPIN BROSSIER C., Somot S., Belamari S., Bouin M.N., Alias A., Sevaut F.

**PS3.5 INTERANNUAL VARIABILITY OF MODELLED WINDS AND LINK WITH VOLATILITY OF SPRING SST OVER EASTERN ADRIATIC**
IVATEK-ŠAHĐAN S., Horvath K., Tudor M., Bajić A.

**PS3.6 COUPLING NEMO-MED12 AND COSMO/CLM FOR THE MEDITERRANEAN SEA**
BRAUCH J., Ahrens B.

**PS3.7 WINTER 1956 IN CROATIA**
TUDOR M., Ivatek-Šahdan S., Bajić A.

**PS3.8 DYNAMICAL DOWNSCALING OF CMIPS HISTORICAL SIMULATIONS: REPRESENTATION OF REGIONAL CYCLOGENESIS AND A NEW TRACKING ALGORITHM**
FLAOUNAS E., Drobinski P., Bastin S., Kotroni V., Lagouvardos K.

**PS3.9 THE METEOROLOGICAL ASPECTS OF THE DART FIELD EXPERIMENT OVER ADRIATIC IN 2006**
TUDOR M.

**PS3.10 PV AND MOISTURE IN MEDITERRANEAN CYCLONES IN COMPARISON WITH OTHER EXTRATROPICAL REGIONS**
CAMPA J., Wernli H., Corsmeier, U

**PS3.11 NUDGING IN REGIONAL CLIMATE MODELLING: WHAT SHOULD WE NUDGE?**
OMRANI H., Drobinski P., Dubos T.

**PS3.12 MED-CORDEX INITIATIVE: REGIONAL CLIMATE SYSTEM MODELS TO STUDY THE MEDITERRANEAN CLIMATE VARIABILITY, CHANGE AND IMPACT**
SOMOT S., the MedCORDEX team

**PS3.13 20-YEARS SIMULATION OVER THE MEDITERRANEAN BASIN WITH THE ATMOSPHERE-OCEAN COUPLED REGIONAL MODEL PROMES-MOSLEF: PRELIMINARY RESULTS**
GALAN DEL SASTRE P., Gallardo C., Patiño E., Tejeda C., Bermejo R., Gaertner M. A.

**PS3.14 VERIFICATION OF GLOBAL INSTABILITY INDEX, DERIVED FROM SATELLITE DATA OVER WIDER CROATIAN AREA**
SMILJANIĆ I., Strelec Mahović N., Telišman Prtenjak M.

**PS3.15 FINE-SCALE NUMERICAL STUDY OF THE 27/10/2011 AND 03/11/2011 HEAVY PRECIPITATING EVENTS OVER CATALONIA AND ANDORRA.**
TRAPERO L., Duffourg F. Ducrocq V., Bech J., Lorente J.

**PS3.16 TRIGGERING AND SUPPORT MECHANISMS OF THE CATASTROPHIC HEAVY RAINFALL OVER THE VAR REGION (JUNE 2010)**
BRESSON E., Ducrocq V., Duffourg F., Nuissier O., Nuret M.
PS3.17 LIGHTNING ACTIVITY AS AN INDICATOR OF SEVERE CONVECTIVE STORMS WITH THE OVERSHOOTING TOPS
MIKUŠ P., Strelec Mahović N.

PS3.18 ANALYSIS OF THE 21ST-23RD NOVEMBER 2011 HEAVY RAINFALL EVENT IN CALABRIA REGION
FUSTO F., Arcuri S., Marsico L., Rotundo R., Niccoli R.

PS3.19 FEBRUARY 2012 WINTER CONDITIONS IN CROATIA
TUDOR M., Ivatek-Šahdan S., Stanešić A., Mazzocco Drvar D.

PS3.20 GPS PW MONITORING DURING THE NOVEMBER 4-7, 2011 IN NAVARRE (SPAIN)
SERNA E., Ramirez F., Garcia R., Prieto E., Matesanz J., Seco A.
PARALLEL SCIENCE DISCUSSION SESSIONS

P1.1  WG4 intense air-sea fluxes  
**Tuesday 8 May, 11:30-13:00**
Chairs: S. Belamari, M. Herrmann, J. Salat, P. Testor
Objectives: to review the observation strategy for SOP2 with respect to the WG4 science questions and observation funding in NW Med in 2012-2013

P1.2  WG5/WG3  vulnerability and adaptation capacity & flash-flood  
**Tuesday 8 May, 11:30-13:00**
Chairs: E. Gaume, C. Llasat, L. Marchi, I. Ruin
Objectives: to coordinate the societal and hydrological post-event survey (incl. observations to share through the HyMeX database, model simulations, analysis tools, joint case studies...)

P2.1  WG1/WG2 Long term water cycle  
**Wednesday 9 May, 11:30-13:00**
Chairs: P. Drobinski,...
Objectives:

P2.2  WG3 Heavy Precipitation and Flash-Flooding  
**Wednesday 9 May, 11:30-13:00**
Chairs: C. Barthlott, I. Braud, S. Davolio, V. Ducrocq, R. Ferretti, E. Richard
Objectives: to coordinate process study and parameterization work based on 2011-2010 events (and future SOP1 events)

Chairs of the parallel science discussions are expected to prepare in advance and together the parallel session and to issue a short report within two weeks after the workshop (no rendering of the parallel science sessions during the workshop)
SOP PREPARATION & COORDINATION SESSIONS

S1- SOP - Monday, 7 May, 14:30-16:00

14:30 – 14:40 Overview of the SOP1 and SOP2 observation strategy – V. Ducrocq (agenda, atmospheric observations, hydrological observations, ocean observations)

14:40 – 16:00 Research Instrumentation of the hydrological and atmospheric sites

14:40-15:00 Cévennes-Vivarais (hydrology + radar + lightning) – B. Boudevillain/O. Bousquet/S. Coquillat
15:00- 15:10 Montpellier (Candillargues + île du Levant) – O. Bousquet
15:10-15:25 Corsica – D. Lambert/N. Kalthoff
15:25- 15:40 Central Italy - R. Ferretti
15:40- 15:50 North-east Italy – S. Davolio / M. Boga (?)
15:50 – 16:00 Balearic Islands – A. Jansa

S2- SOP - Monday, 7 May, 17:00-18:30

17:00-18:20 Atmospheric and hydrological mobile platforms

17:00-17:10 research RS (Corsica, Candillargues + mobile RS in South of France, Le Provence) N. Khaltoff/F. Duffourg
17:10-17:20 enhancement of operational RS and AMDAR through EUCOS DTS – A. Jansa/A. Doerenbecher
17:20-17:35 balloons – A. Doerenbecher/C. Basdevant
17:35-17:45 hydrological measurements on alert – B. Boudevillain, I. Braud
17:45-18:30 aircraft – C. Flamant/U. Corsmeier/H. Wernli

S1- SOP - Tuesday, 8 May, 14:30-16:00

14:30-16:00 Ocean platforms (SOP1 & SOP2):

14:30-15:00 Le Provence operations – I. Taupier Letage, S. Belamari
15:00-15:10 Urania operations - ?
15:10- 15:30 Glider operations – P. Testor
15:30-15:50 argo floats, SVP and Marisondes – M.N. Bouin, L. Coppola
15:50-16:00 operational and long-term ocean observations in Western Mediterranean – L. Coppola
**S4- SOP – Tuesday, 8 May, 17:00-18:30**

**17:00-18:30 Operation coordination during SOP1**

17:00-17:45  General Operation Coordination, incl. main and secondary operation centers - V. Ducrocq, A. Jansa, N. Kalthoff, S. Davolio

17:45-18:15  HyMeX SOP website: real-time observations, real-time models and model products – L. Labatut, M. Nuret, B. Boudevillain, S. Belamari, L. Mastrorillo

18:15-18:30  Logistic, accommodation - O. Roussot

Presentations should be synthetic with the following items: funding status, site and instrument authorisations status, agenda, staff during the field campaign, functioning modes (continuous, on alert/pre-alert mode), real-time data and quick look production, real-time needs and coordination with the HOC and other instrument platforms.

The presentations should highlight aspects that call for discussion with respect to the science strategy or action/decision/support at the HyMeX international coordination level. Half of the presentation time-slot should be dedicated to discussion.
TASK TEAM SIDE MEETINGS

**TS4a meeting** - Tuesday, 8 May, 10:15-11:00

Objectives: coordination of Corsica site operations

Chairs: D. Lambert, N. Kalthoff

**TTM1a and TTM4a joint meeting** - Wednesday, 9 May, 09:30-11:30

Objectives: definition of a joint TTM1a and TTM4a testbed

Chairs: N. Fourrié, Y. Michel, A. Montani

**TTM3 meeting** - Wednesday, 9 May, 14:30-16:00

Objectives: short summarize of the Toulouse meeting (15min) and then small group discussions on the actions decided during the Toulouse meeting (ocean run design, EMT analysis in multi-model, list of the case study, list of the interesting HyMeX sites, list of the useful observed dataset to put in the HyMeX database, first simulations to upload, TTM3e task discussion, ...)

Chairs: S. Somot

**TS7a meeting** - Thursday, 10 May, 09:00-11:00

Objectives: coordination of the real-time atmospheric model chart production on the HyMeX SOP site during SOP1 and SOP2

Chairs: M. Nuret

**TS2c meeting** - Thursday, 10 May, 09:00-11:00

Objectives: Remote Sensing of land surfaces: vegetation and soil products (needs)

Chairs: JL Roujean and JC Calvet

**TTM2 meeting** - Thursday, 10 May, 11:00-13:00

Objectives: review hydrological modeling at various scales

During this time slot, each participant could present the activities he/she plans to do in terms of hydrological modeling (geographical extent/catchment, model used). The data requirements and products can be provided to the other groups.

Chairs: I. Braud