

PW1.2 Long-term hydrometeorological observations (LOP-EOP): meteorological and hydrological sites and networks, satellite products

Chairs: E. Anagnostou, G. Delrieu, G. Liberti

Hydrometeorological observatories (1/3)

- Written contributions to the IIP are needed asap (< end august 2010)
- 3 (short) contributions:
 - TS3. Brief description of the observatory and science objectives
 - TT02a. Description of operational hydromet observation systems
 - TTO2b. Description of the pilot-site(s): selected regional-scale watershed(s) with specific problematics, operational and research instrumentation (super-sites) available and required for the EOP; specific observation strategies vs scientific questions of WG2, WG3 and WG5

Hydrometeorological observatories (2/3)

- Key persons are « targetted »:
 - G. Delrieu, B. Boudevillain for CV; A. Chanzy and D. Courault for CC
 - M. Borga for Adriatic TA
 - E. Anagnostou for Eastern Med TA
 - G. Boni for LG
 - C. Llasat, A. Ezcurra for CA
 - ? for VA
 - ? for other WG2 sites
- Method: GD and BB will start for CV (already done for TS3 and TTO2b); these contributions will be sent as examples by Véronique to the other key persons

Hydrometeorological observatories (3/3)

- Need also to document the instruments for the HyMeX database
- Next step (<next HyMeX workshop): establish a coordination for the selected pilot-sites and super-sites
 - Complementarity
 - Sharings
 - Strategy for the post-event surveys

Satellite Products (1/3)

- Contributions to HyMeX:
 - Estimates of continental water cycle parameters (precipitation, soil moisture, ET)
 - Estimates of oceanic parameters (precipitation, salinity, winds, SST)
 - Estimates of atmospheric parameters (moisture, temperature, lightning, etc.)
- Contributions of HyMeX (to GPM, SMOS, etc.):
 - Ground validation activities in hydrology
 - Ground validation activities in oceanography

Satellite Products (2/3)

- Continental water cycle products (orbits):
 - GPM-DPR (dual-frequency radar): snow/rainfall profiles, bridging observational gaps over complex terrain, ground radar calibration
 - GPM-PMW: precipitation fields
 - SMOS / SMAP: near surface soil moisture
 - MODIS (?): snow cover and soil temperature product

Satellite Products (3/3)

- Oceanic products (orbits):
 - GPM-PMW: precipitation, moisture/temperature profiles, winds
 - SMOS: near surface salinity
 - MODIS/other: sea surface temperature
- Oceanic products (time integrated):
 - Combined MW/GEO-IR: precipitation (1-3 hrl)
 - GEO: lightning?

Action on Satellite Products

- Key persons need to be « targetted »:
 - A. Mugnai (GPM)
 - V. Levizani (GEO)
 - ? (SMOS)
 - ? (Lightning)