



Schweizerische Eidgenossenschaft

Confédération suisse

Confederazione Svizzera

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Swiss Confederation

Federal Department of Home Affairs FDHA

Federal Office of Meteorology and Climatology MeteoSwiss



WG4: interpretation and applications

Pierre Eckert
MeteoSwiss, Geneva



Topics



- Fieldextra → Jean-Marie Bettems
- CORSO-A → Inna Rozinkina
- A page of publicity
- WG4 activities outlook

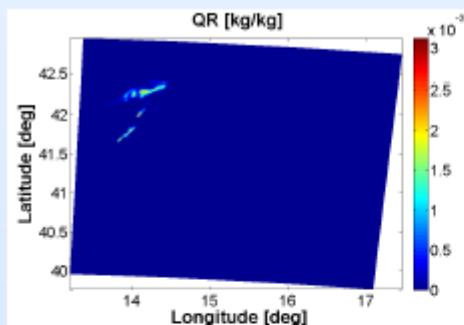


Poster

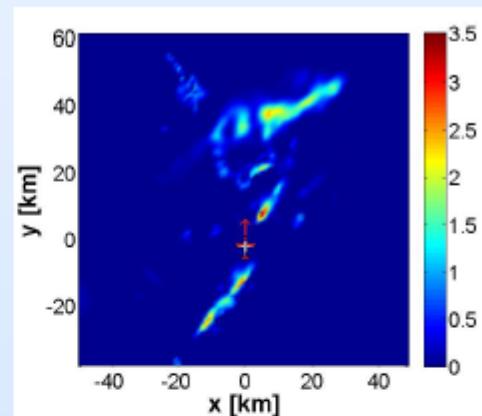
Airborne X-Band weather system analysis and

Mario Papa, Paola Mercogliano, Frank Silvio Marzano
University of Rome La Sapienza, Italian Aerospace

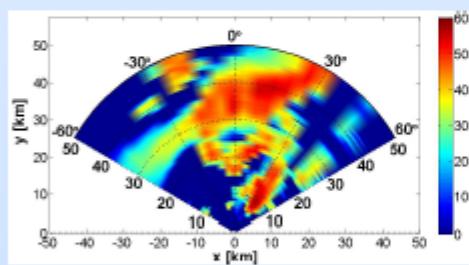
a - COSMO-LM output
Specific water content [kg/kg]



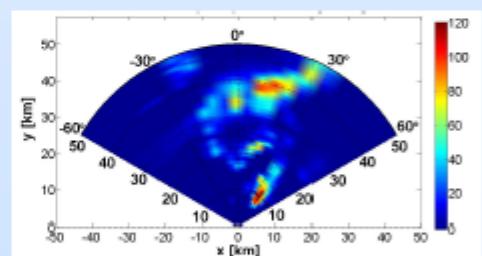
b - Water content [g/m^3]



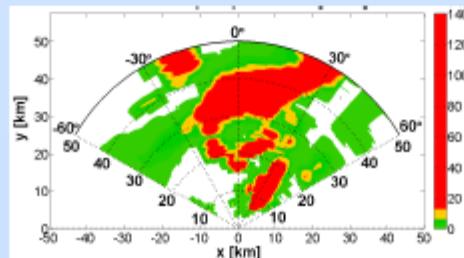
c - Equivalent reflectivity factor [dBZ]



d - Precipitation rate [mm/h]



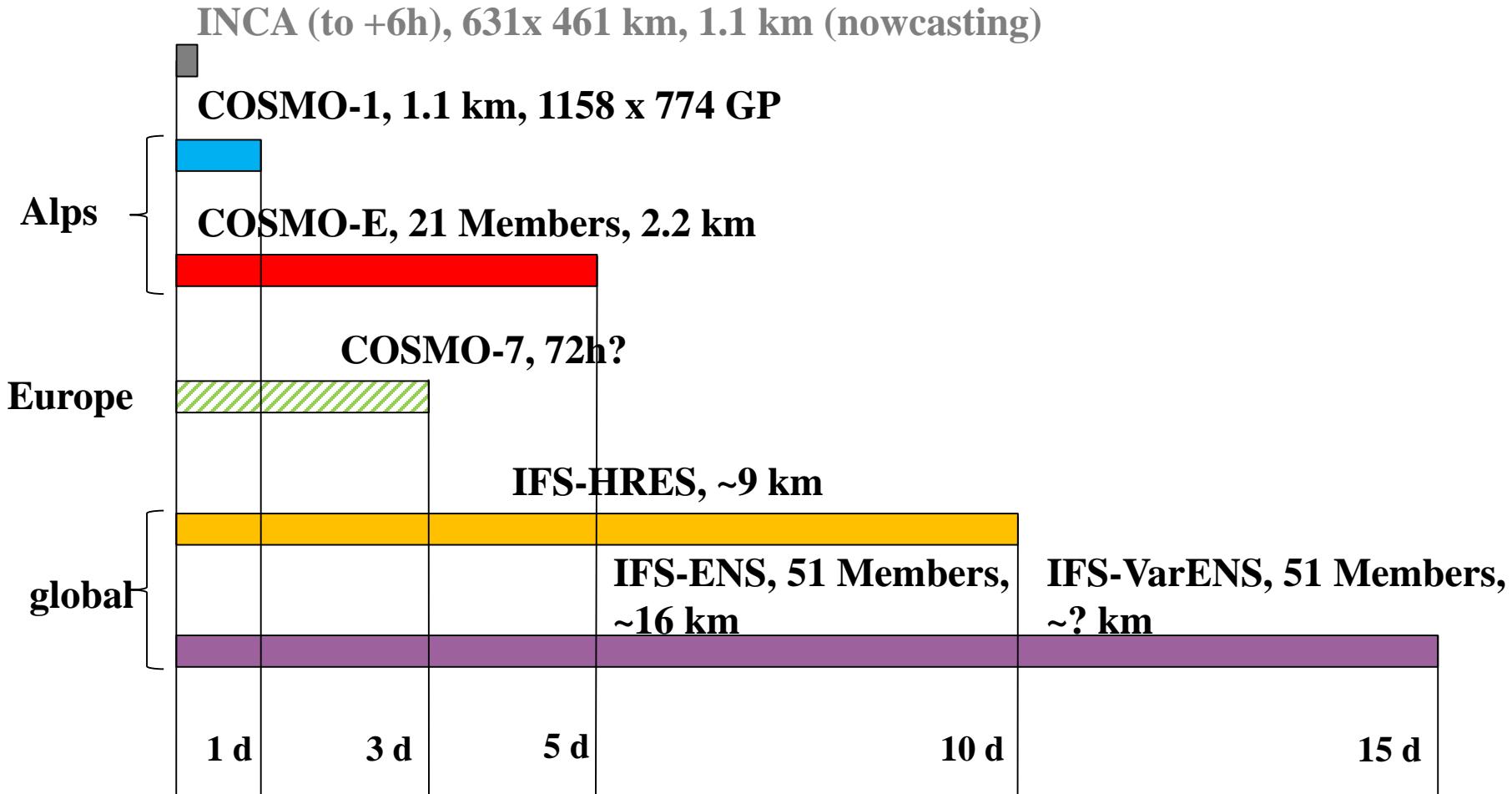
e - Warning image
Precipitation rate [mm/h]





2016 Model characteristics

MeteoSwiss case





High resolution

COSMO-1 FORECAST

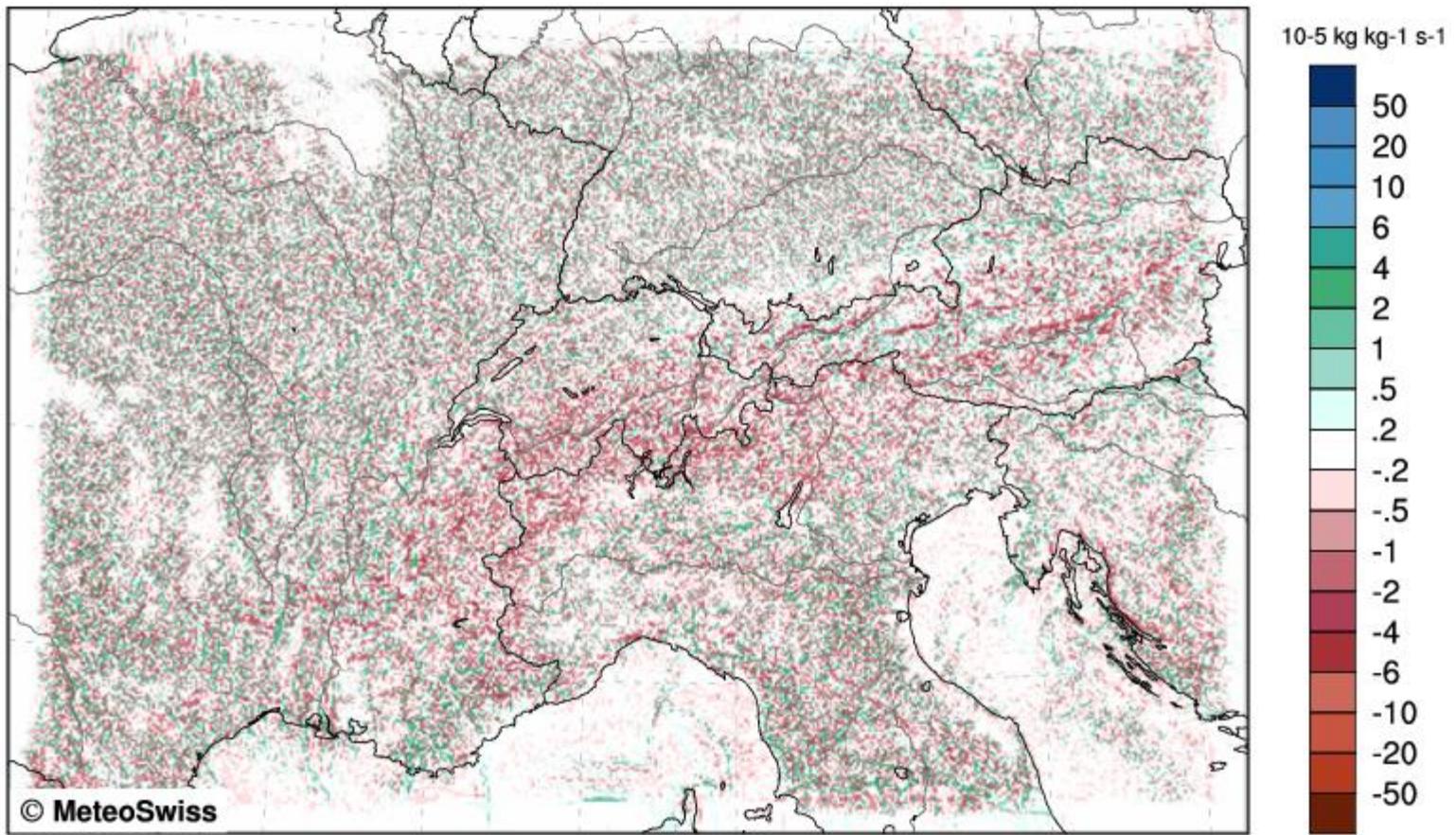
Version: 570

Horizontal Moisture Flux Convergence



Sun 06 Sep 2015 12UTC

06.09.2015 00UTC +12h



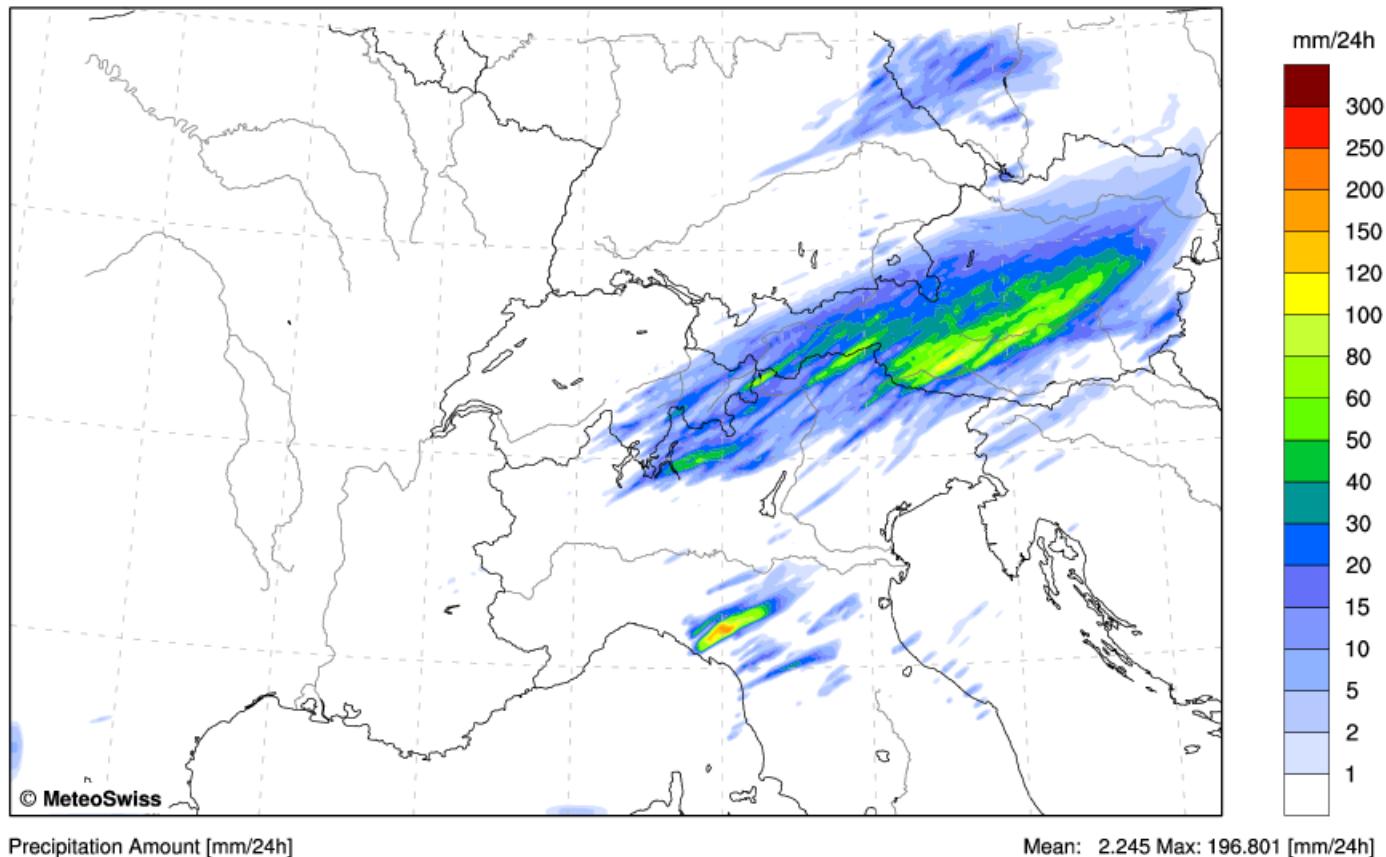


High resolution EPS



COSMO-E ENSEMBLE_FORECAST
24h Sum of Total Precipitation (CTRL)

Fri 04 Sep 2015 12UTC
01.09.2015 12UTC +72h



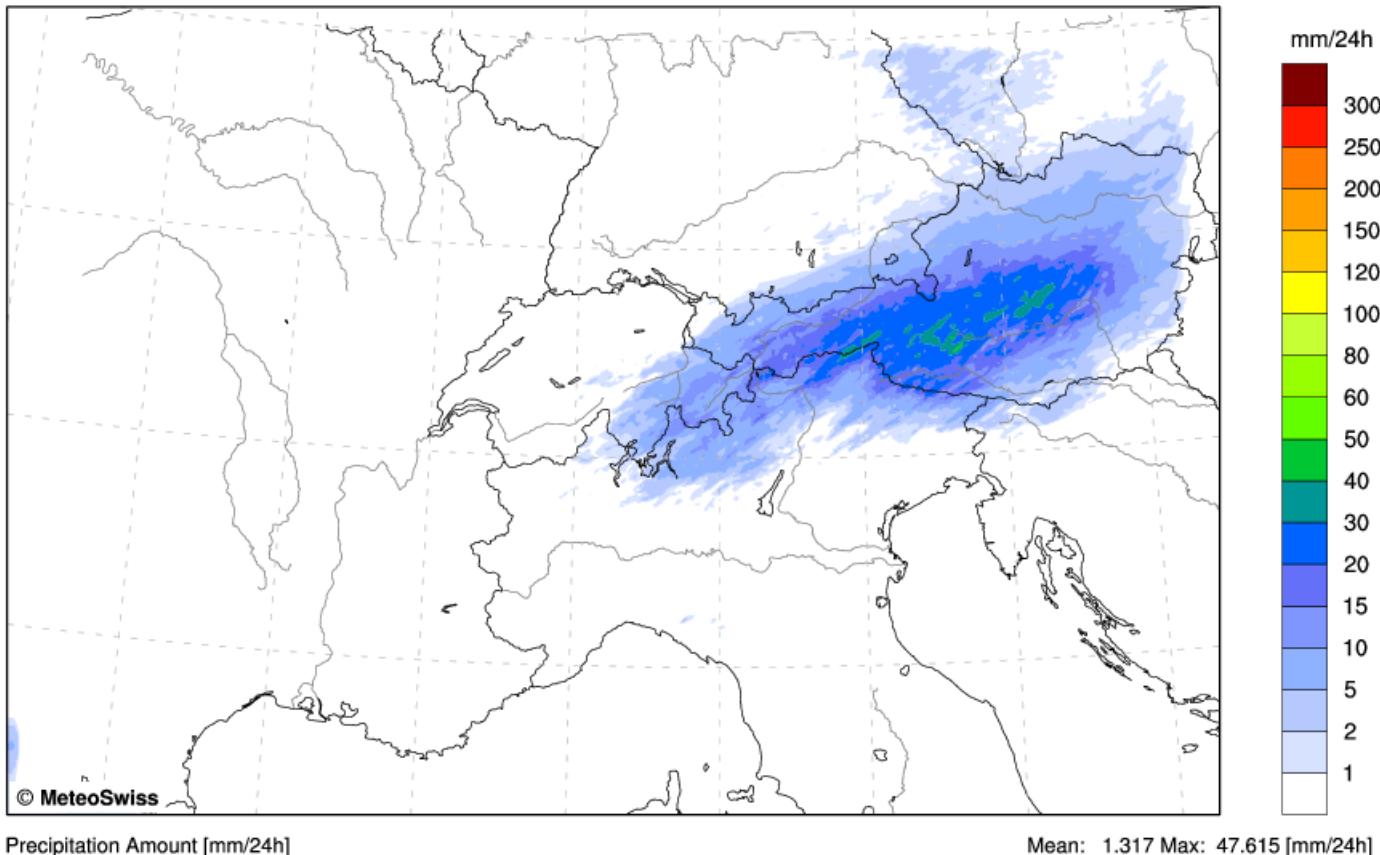


High resolution EPS



COSMO-E ENSEMBLE_FORECAST
24h Sum of Total Precipitation (Q50)

Fri 04 Sep 2015 12UTC
01.09.2015 12UTC +72h



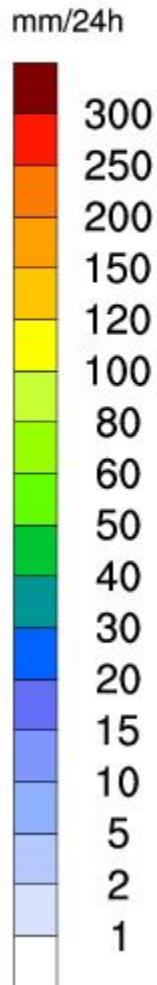
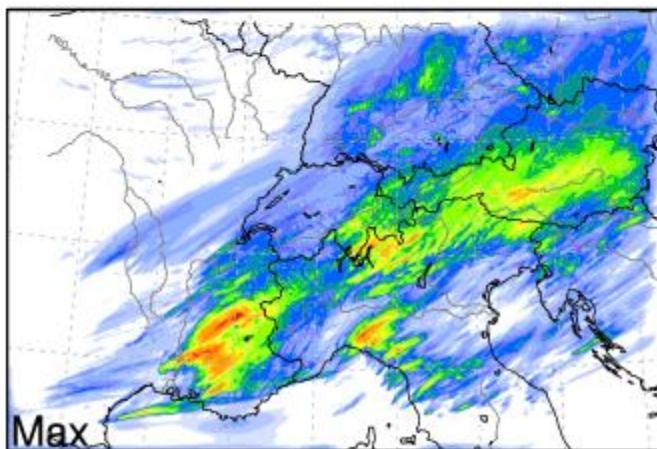
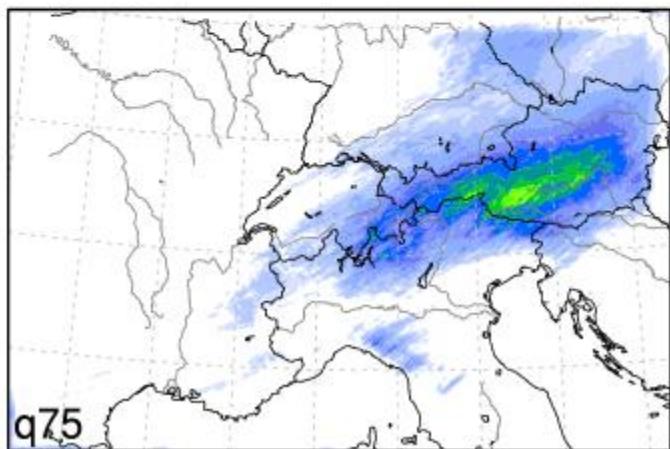
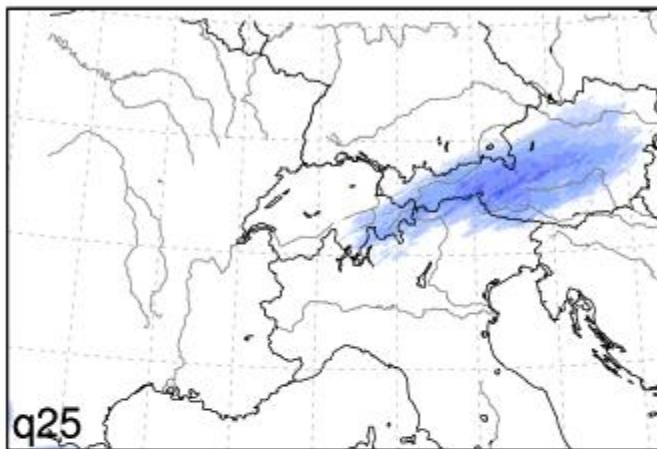
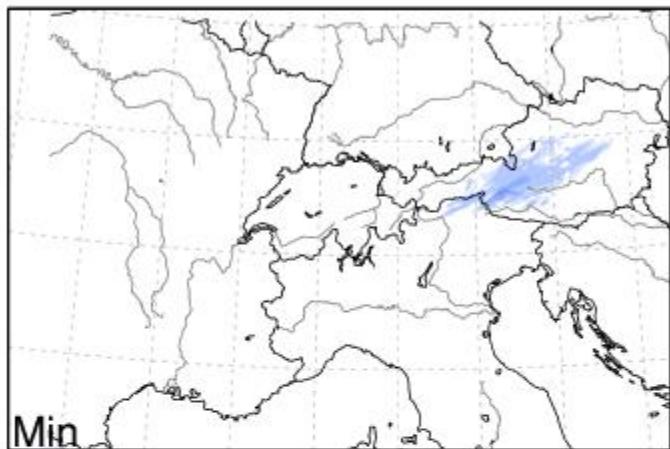


High resolution EPS



COSMO-E ENSEMBLE_FORECAST
24h Sum of Total Precipitation

Fri 04 Sep 2015 12UTC
01.09.2015 12UTC +72h





Adapt forecasting methods



- Promising (verification) results from new models
- Adapt forecasting methods:
 - User oriented verification
 - (Post)-processing
 - Products
 - Visualisation
 - Guidelines
 - Education



MCH Project «processing models»



- (optimised) processing
 - Space / time aggregations
 - Treatment of EPS information
 - Calibration
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- Postprocessing
- Seamless forecasting



- Usability and guidelines



- The whole is supported by solid and unified verification methods



The End



Thank you



Opportunities



- Priority project INSPECT
- Priority project SPRED
-
- Renewable energy applications
- Aviation