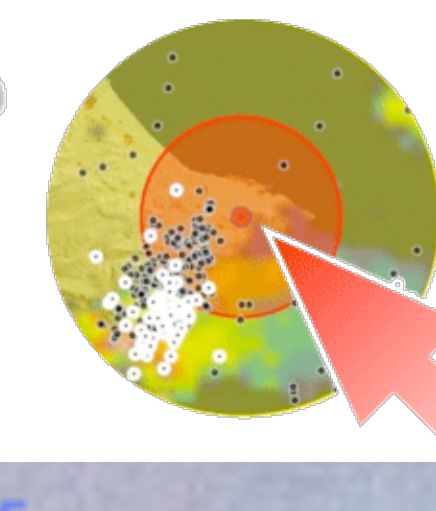




European
Civil Protection

Prevention & Preparedness Projects

EDHIT



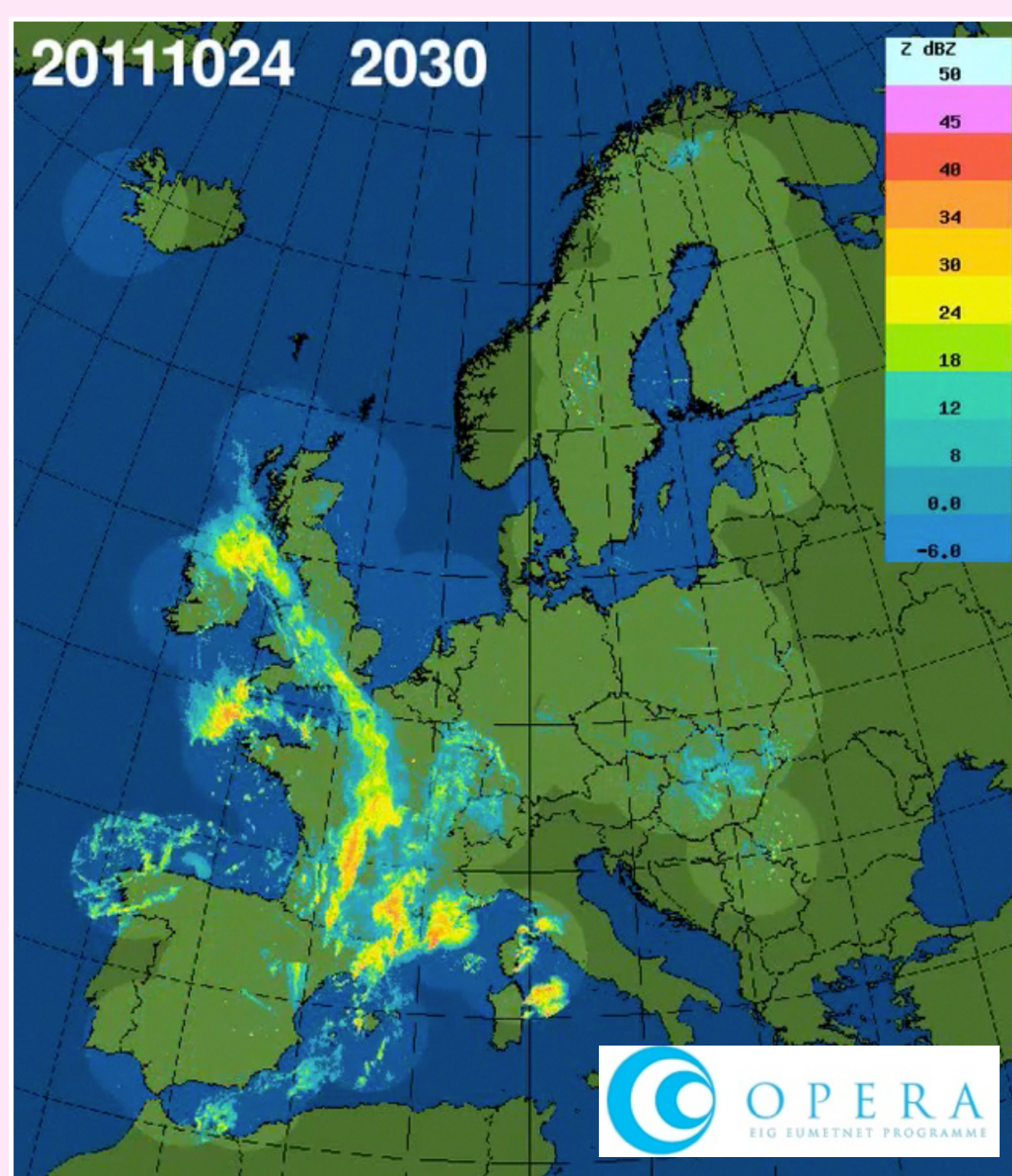
EUROPEAN DEMONSTRATION OF A RAINFALL AND LIGHTNING INDUCED HAZARD IDENTIFICATION NOWCASTING TOOL

<http://www.edhit.eu>

BASED ON the EU RADAR mosaic

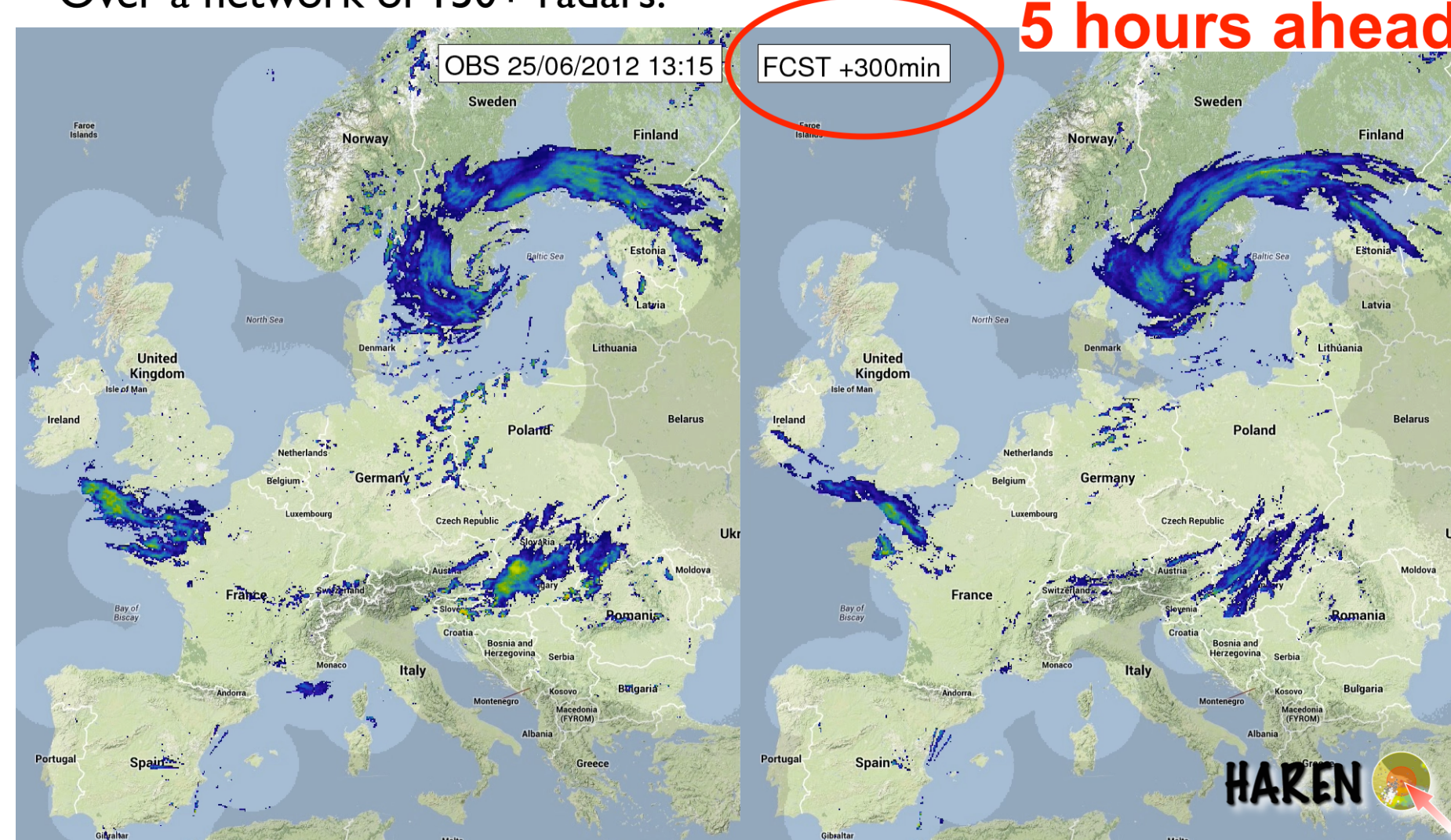
OPERA radar mosaic:

- Precipitation observations over Europe @2 km and every 15 minutes.
- Operationally produced since mid 2011.
- First nowcasting demonstration (HAREN project): June 2012-September 2013
- EDHIT demonstration: **January 2014-July 2015**



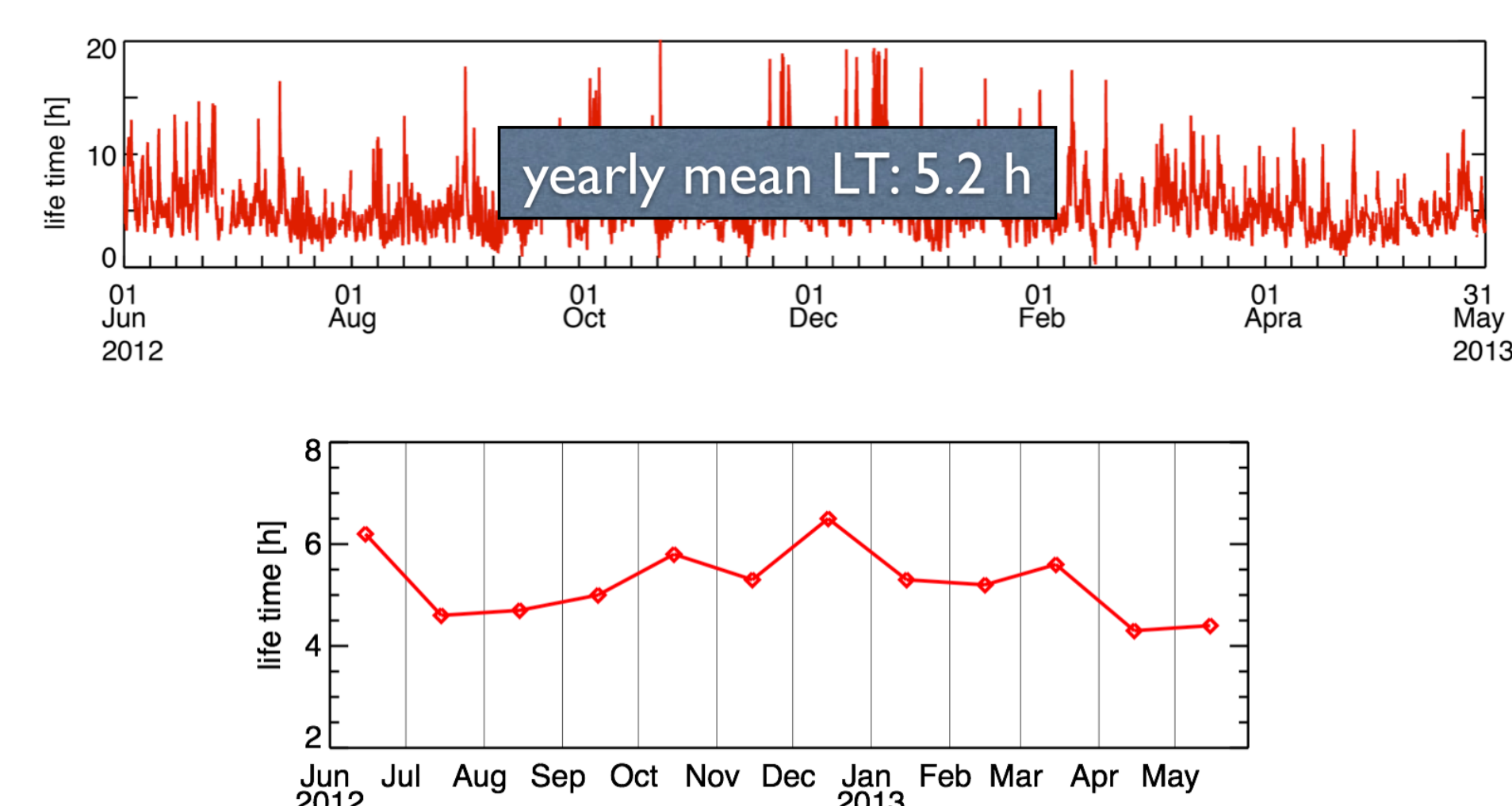
High resolution rainfall nowcasting over Europe
@2km every 15 minutes

European Radar Nowcasting - OPERA mosaics
Over a network of 150+ radars.



CRAHI Algorithm of nowcasting by lagrangian persistence
Berenguer et al. J. Hydrometeorology, 2005; J. of Hydrology, 2011

Long-term evaluation
in the period 01 June - 31 May 2013



MeanLife Time Predictability: over 5h

EDHIT Products

Rainfall hourly
Accumulations
forecasts
(up to 6h)

Improved Nowcasting
of RAINFALL
INTENSITIES
(up to 6h)

Daily rainfall
Accumulations

Nowcasting of
Lightening
(up to 3h)

Hydrological Hazard
forecasts
(up to 6h)

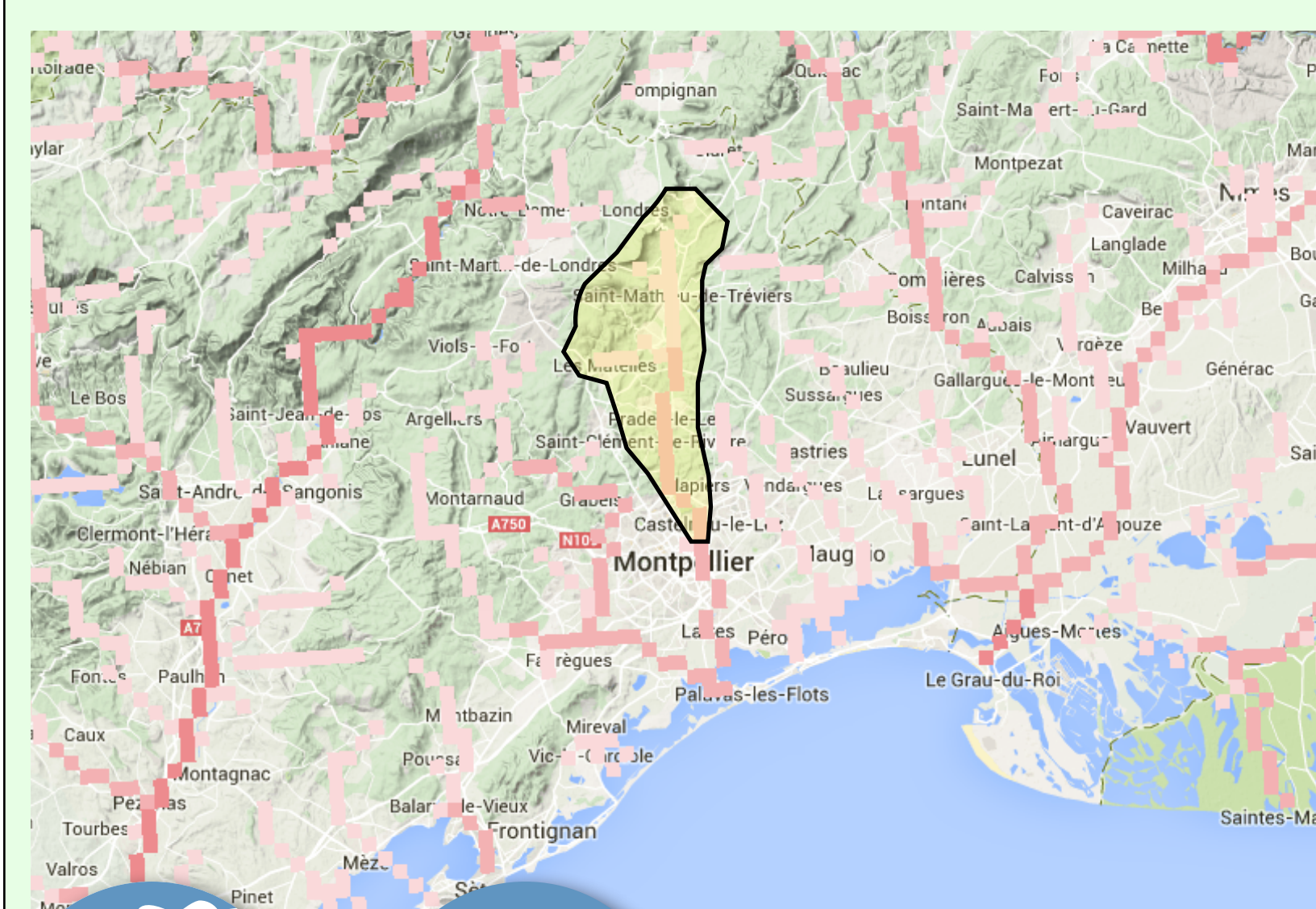
Hourly HAZARD
IDENTIFICATION
forecasts
(up to 6h)

NWP forecasts
(up to 72h)

Hydrological Hazard forecast

Probabilistic hydrological hazard
forecast based on radar nowcasting:

- Based on SBMcast nowcasting (Berenguer et al., JoH2011).
- Using basin-aggregated rainfall collected by the catchment upstream of each point.
- Thresholds on probability of exceedance



EDHIT TRAINING ACTIVITY

Practical training session for Meteorological and hydrological
Forecasters and CP responders, using a real emergency case

Brussels 24 June 2015

(see <http://edhit.fmi.fi>)

EDHIT WORKSHOP

Presentation of the results and discussion about
procedures to use the forecasts and products

Brussels 25 June 2015 (ERCC)



ILMATIETEEN LAITOS
METEOROLOGISKA INSTITUTET
FINNISH METEOROLOGICAL INSTITUTE



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DIRECCIÓN GENERAL
DE PROTECCIÓN CIVIL
Y EMERGENCIAS

