ANYWHERE impact forecasting products

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products and algorithms

for forecasting hazards and impacts triggered by weather-induced events

- hydrometeorological forecasts
- floods, flash floods & landslides
- weather-induced forest fires
- droughts
- heatwaves & weather induced health impacts
- convective storms & severe winds
- marine storms
- snowfall

products and algorithms

for forecasting hazards and impacts triggered by weather-induced events

hydrometeorological fore

floods, flash floods

weather-induced

drou

storms

nds

mari

Solutions adapted to:

- various spatial scales (from Continental to local)
- forecasting horizons (from very short range up to a few days)
- resolutions (in space and time)
- flexible to the use of alternative inputs
- complementary to existing observations and datasets (A4EU)

25 models & algorithms generating ~300 products

meteorological forecasts

NWP systems

- Integrated Forecasting System (ECMWF)
- HARMONIE & HIRLAM (FMI)

Products

- Atmospheric variables (temperature, wind, humidity, pressure…).
- Derived products: EFI, type of precipitation.

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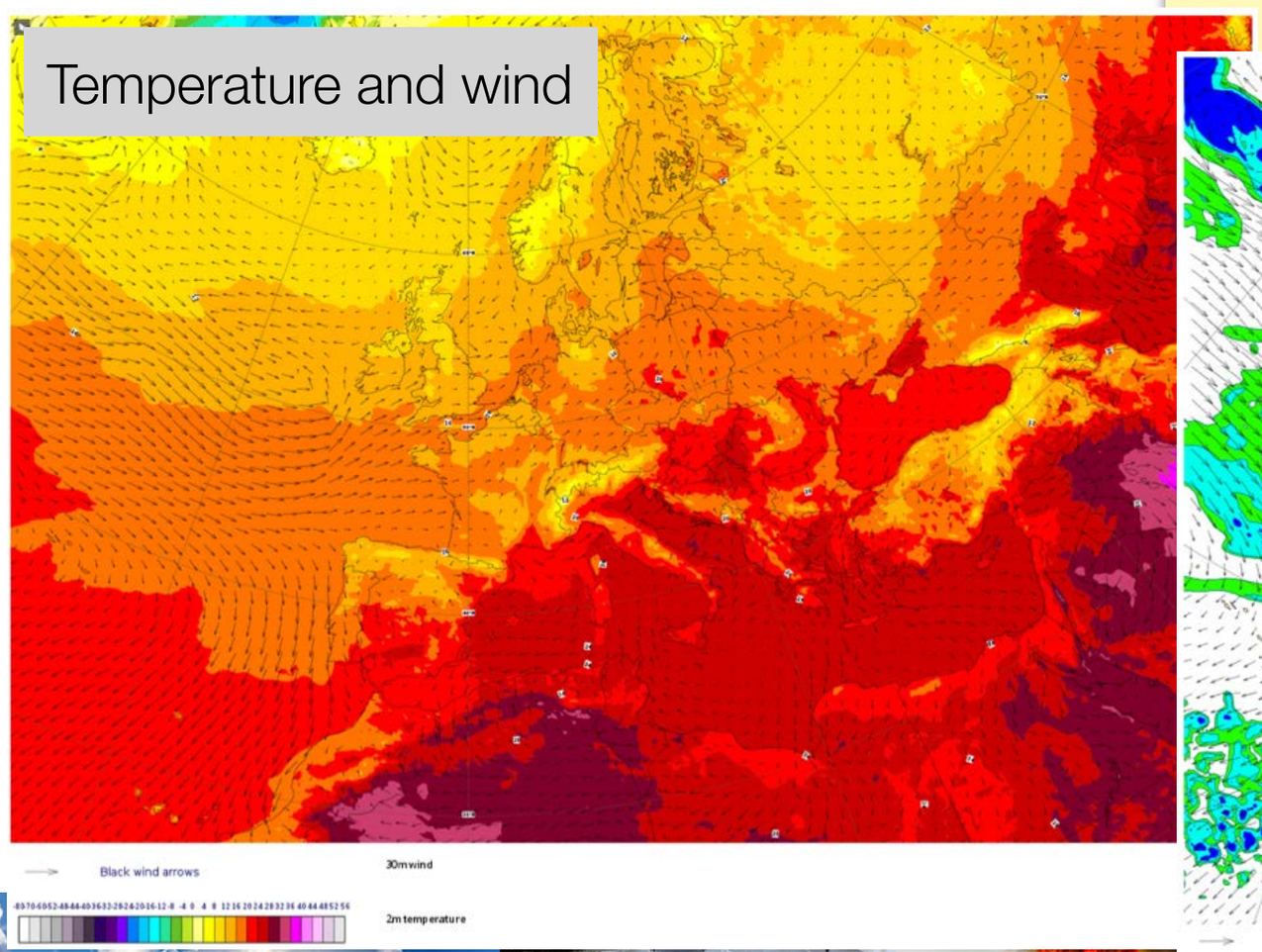

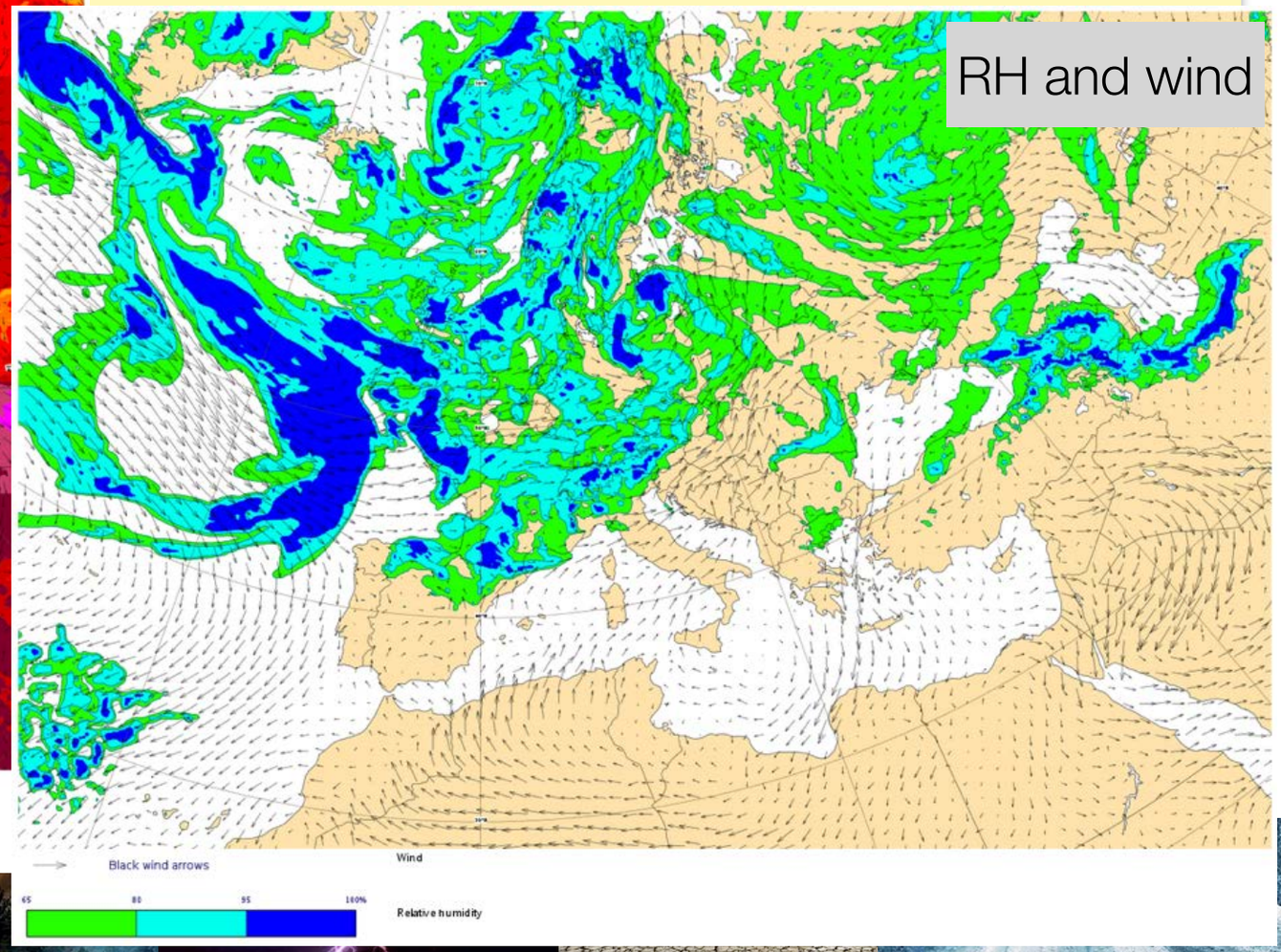

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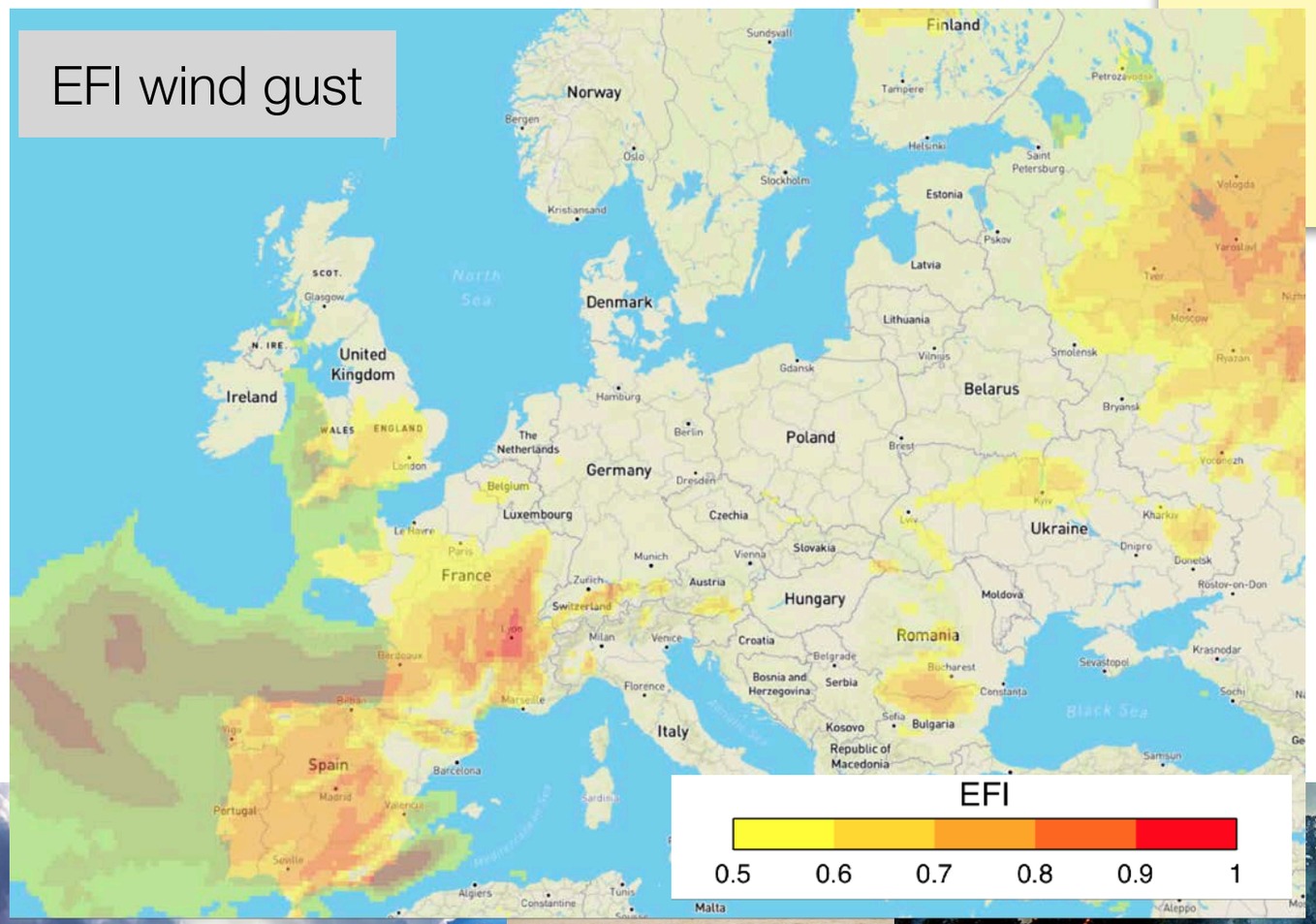

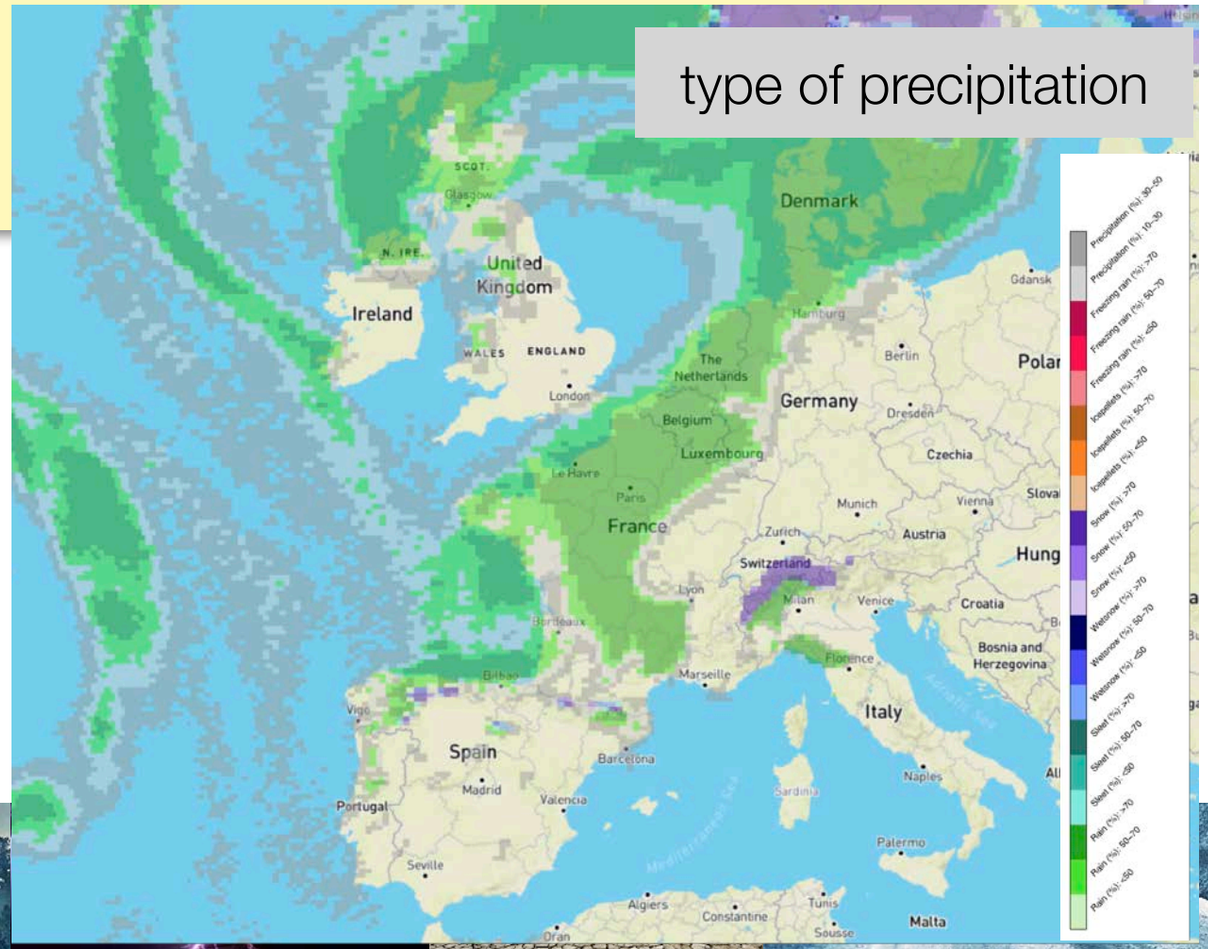

meteorological forecasts

NWP systems

nowcasting

- radar-based rainfall nowcasting systems

Products

- Very short-term high-resolution rainfall forecasts (Continental to regional scale)

meteorological forecasts

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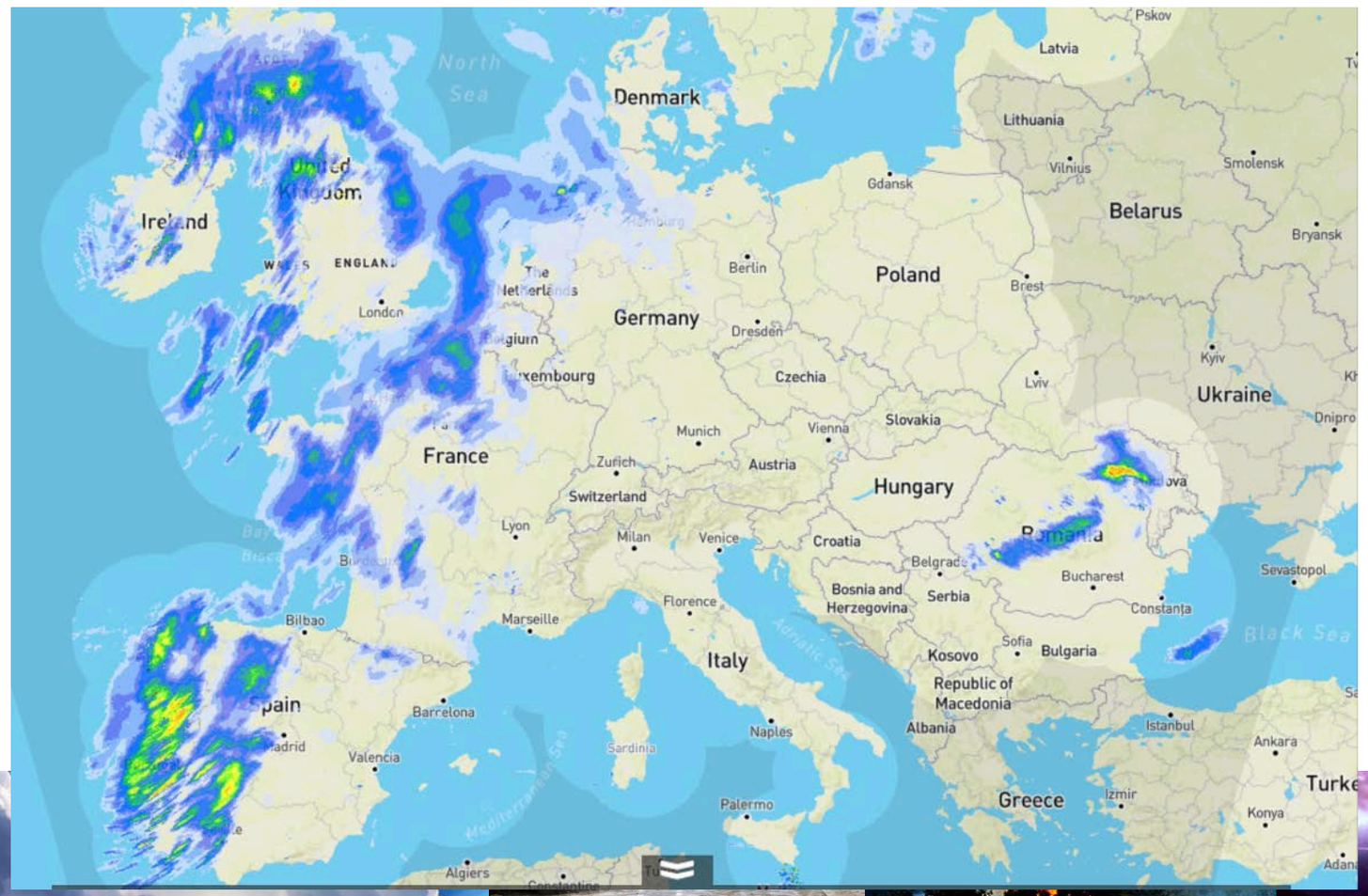
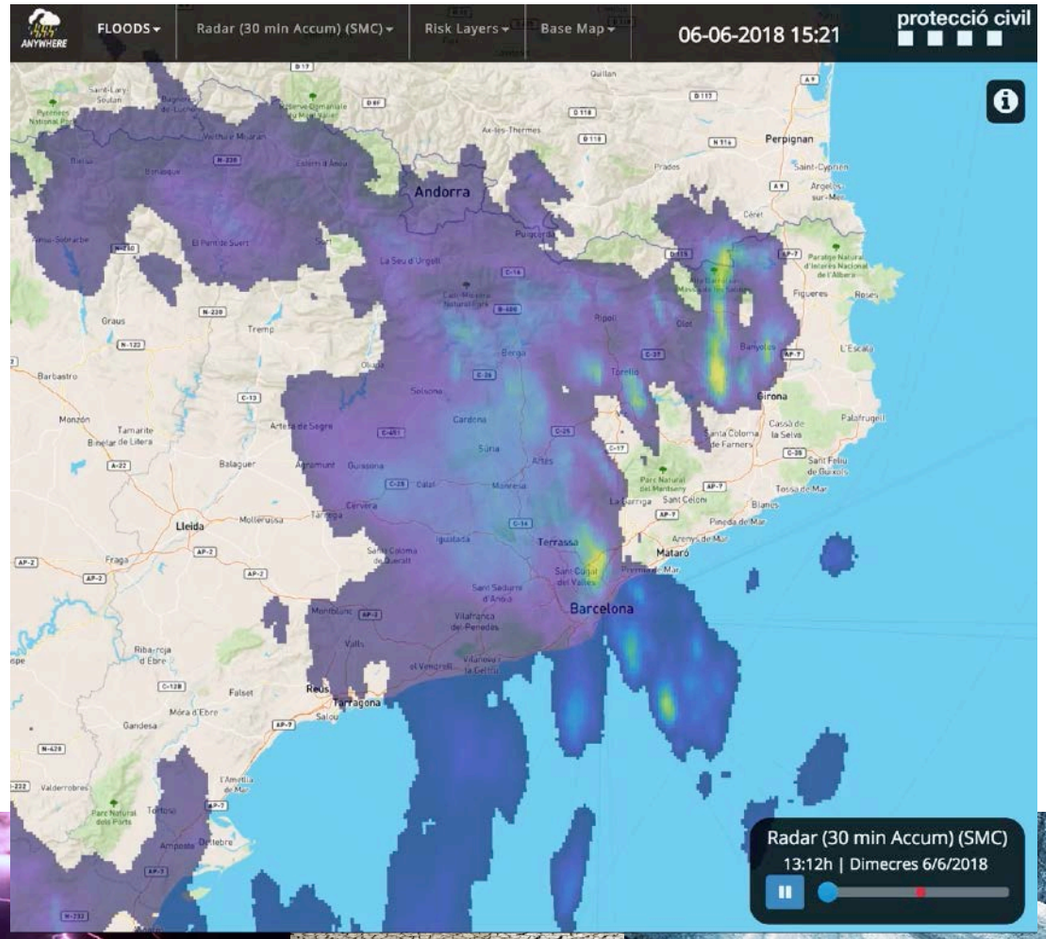




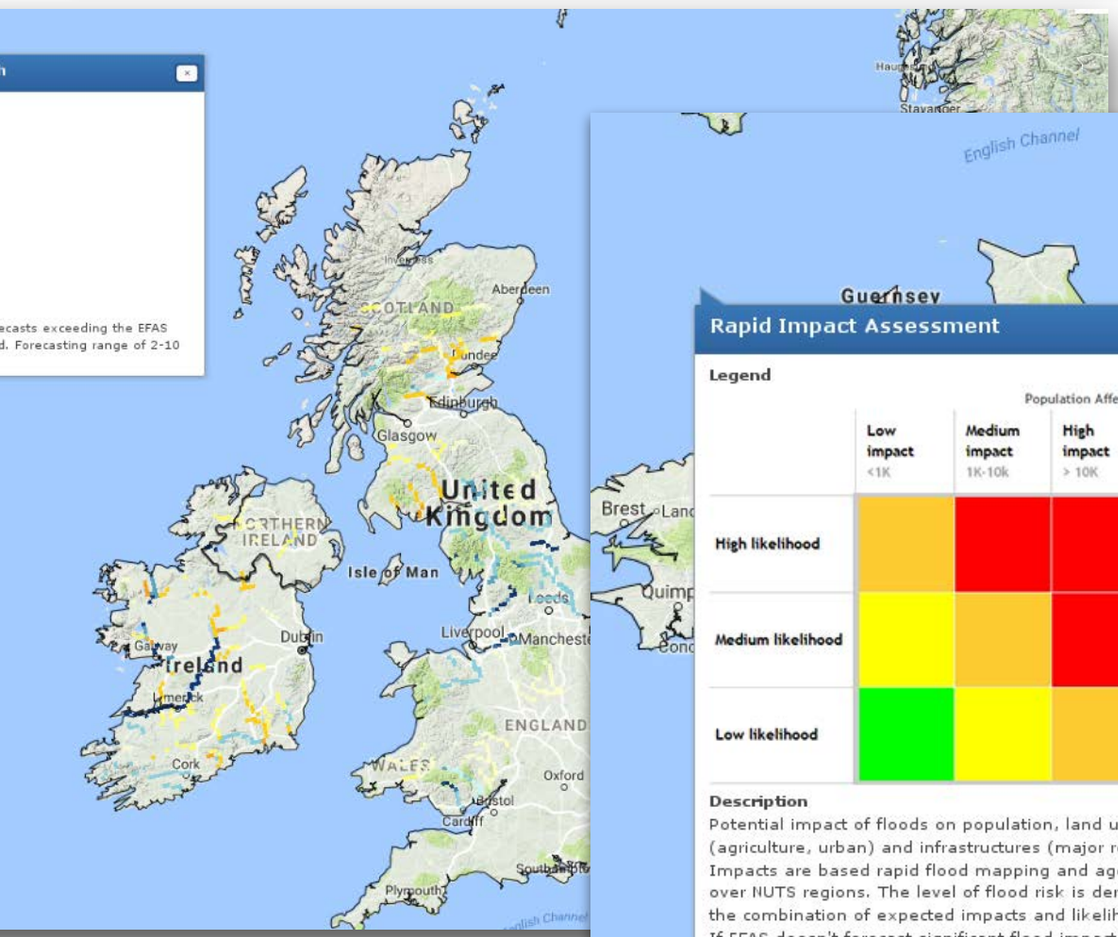
floods & flash floods

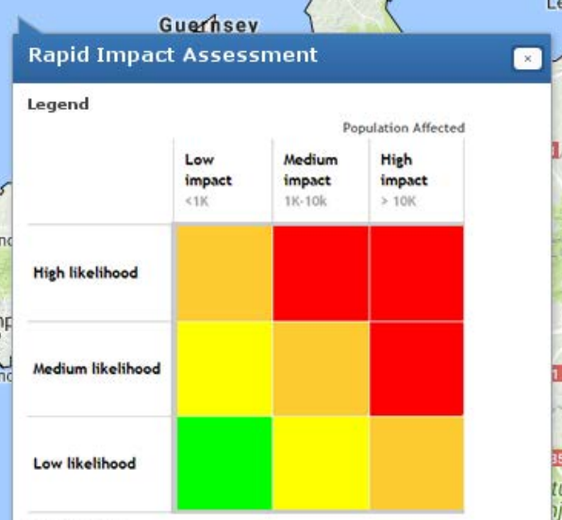
EFAS

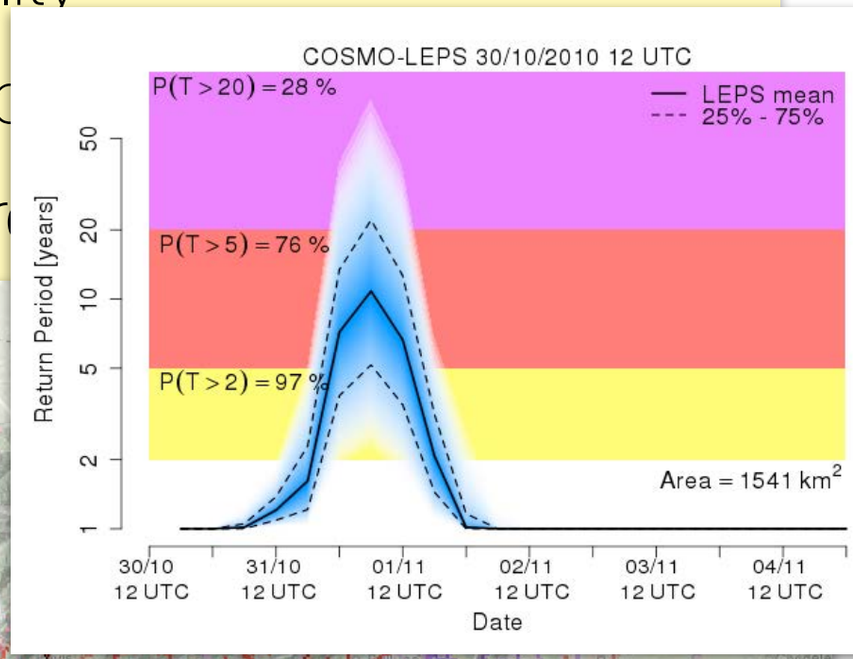
- LISFLOOD rainfall-runoff model
- Flood hazard assessment

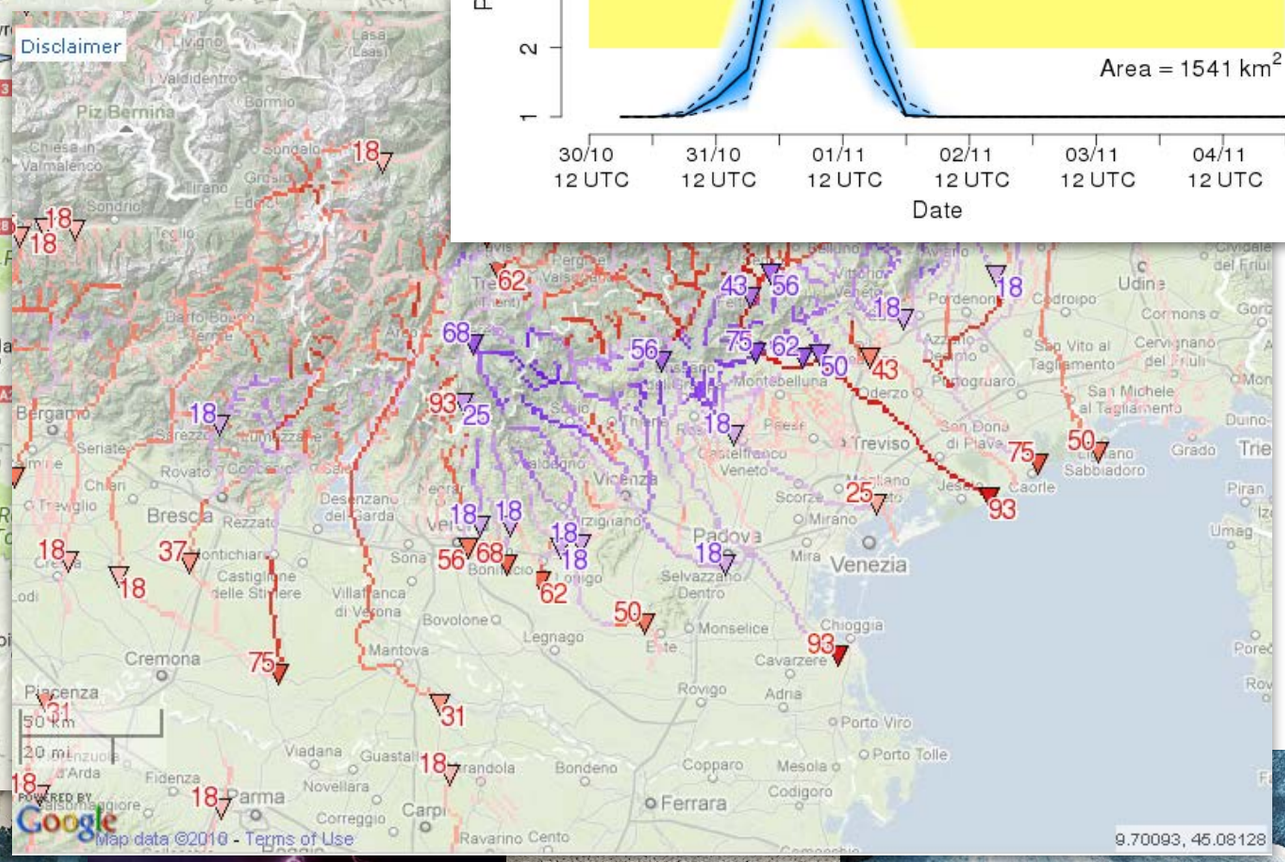
Products

- LISFLOOD outputs
- Flood probability
- River flood imp
- Flash flood for







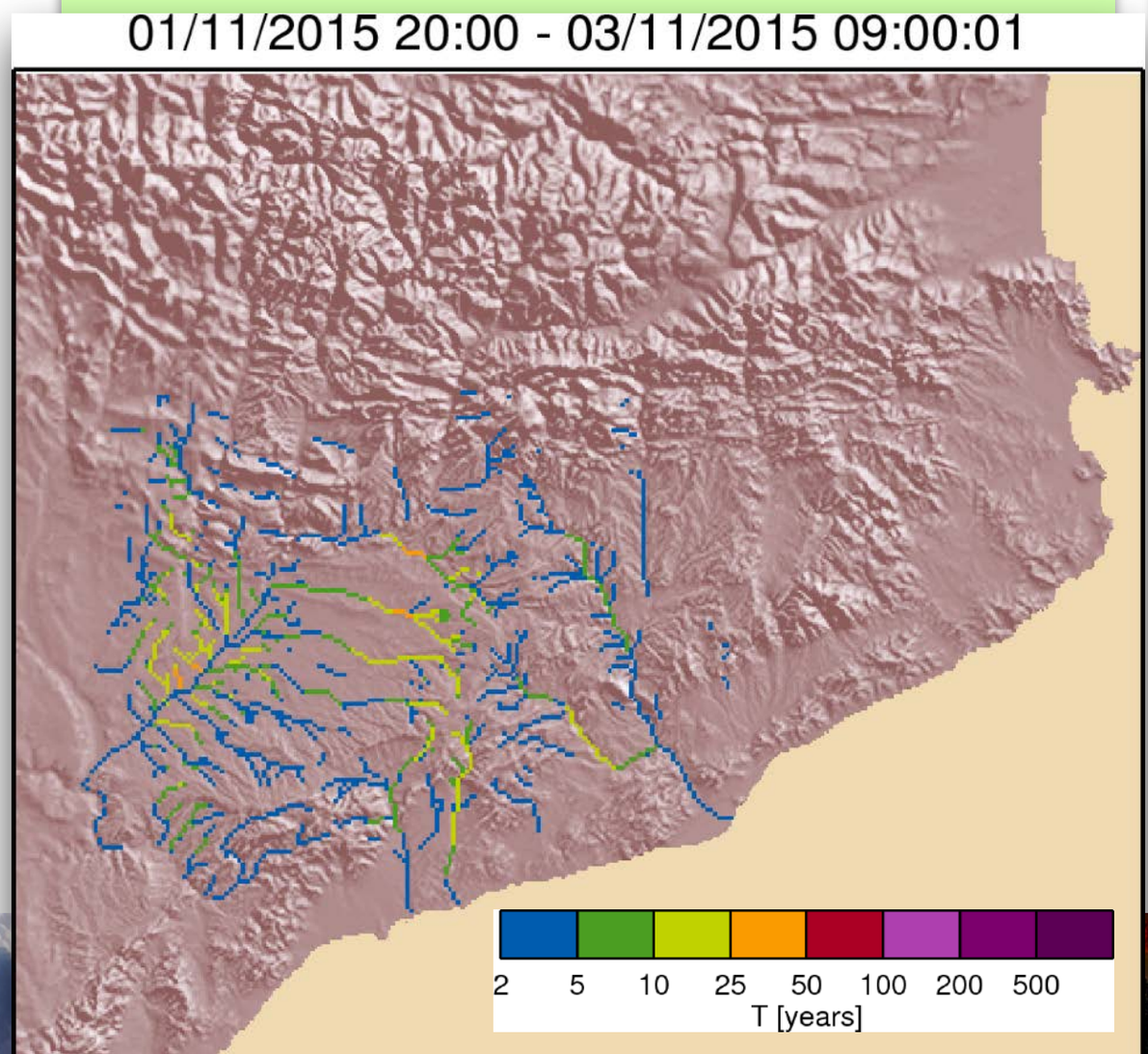


floods & flash floods

EFAS

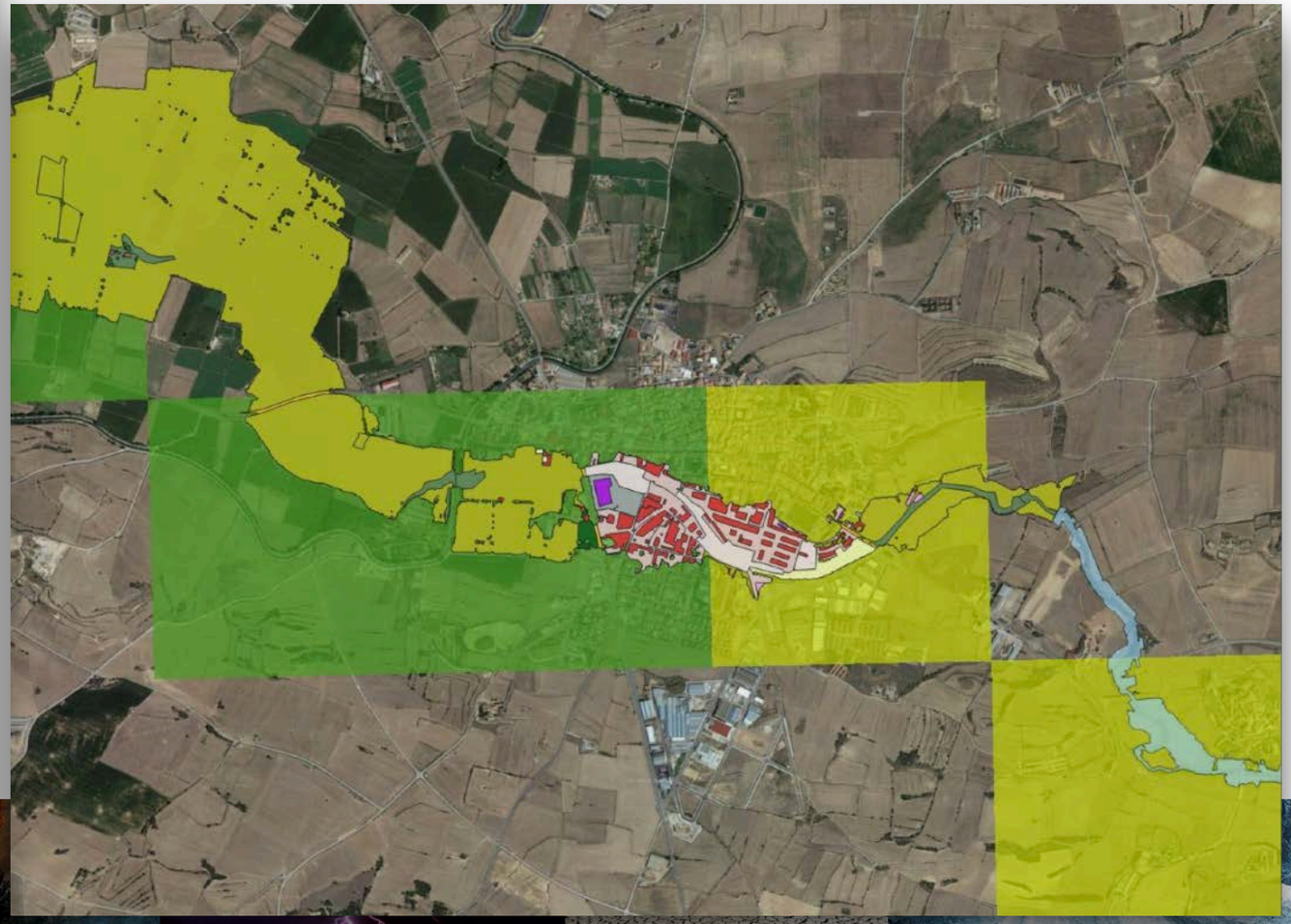
Short-term flash flood forecasts

- Based on radar rainfall inputs



Products

- Flash flood hazard
- Flash flood impacts



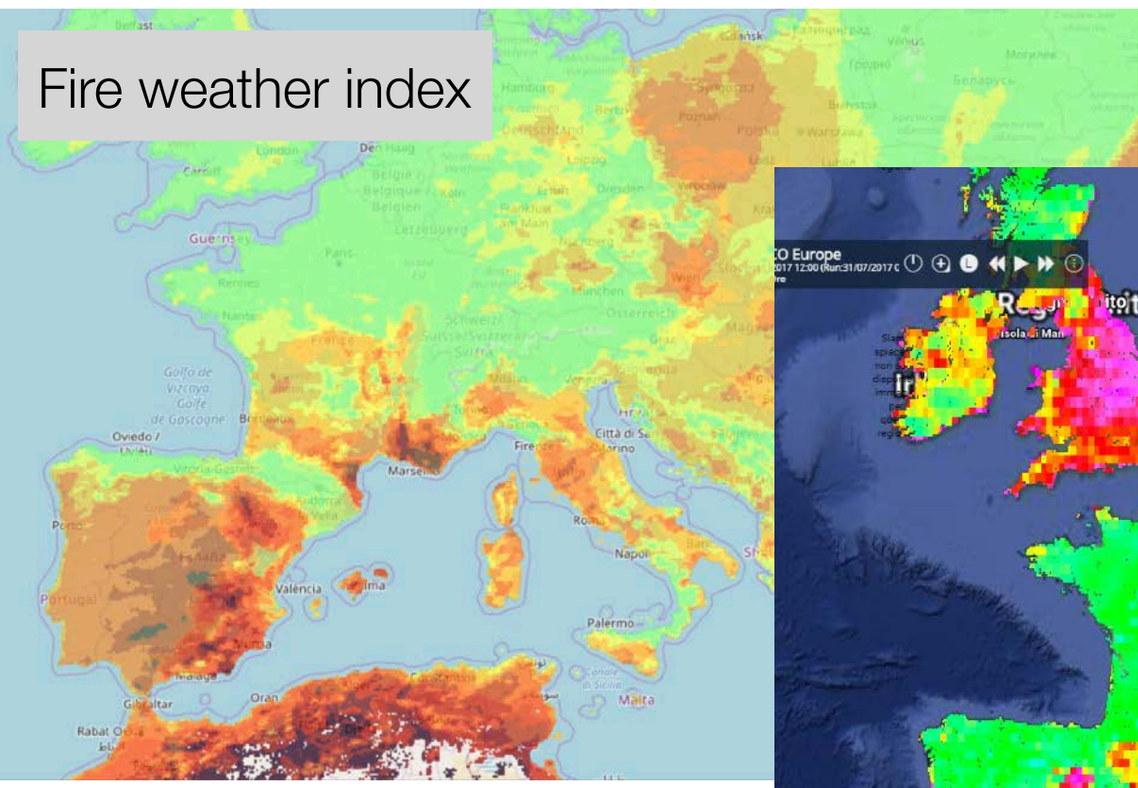
weather-induced forest fires

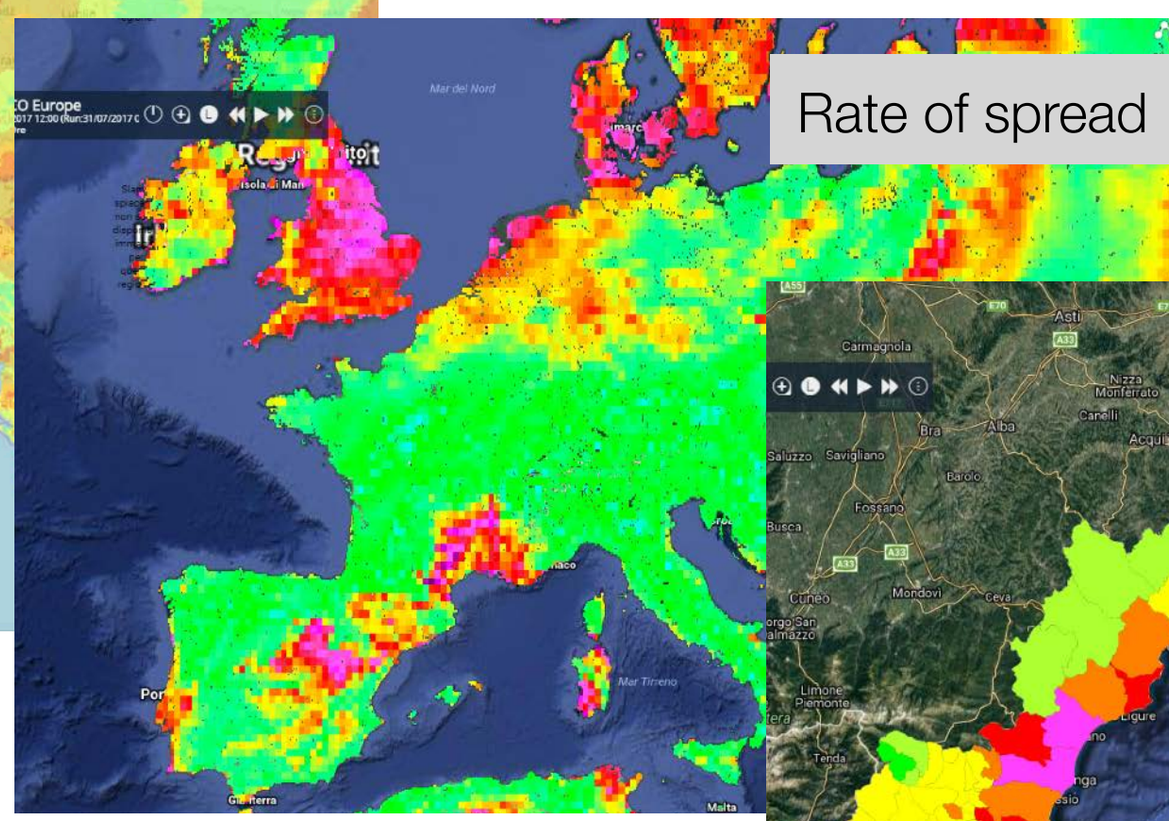
Hazard forecasting

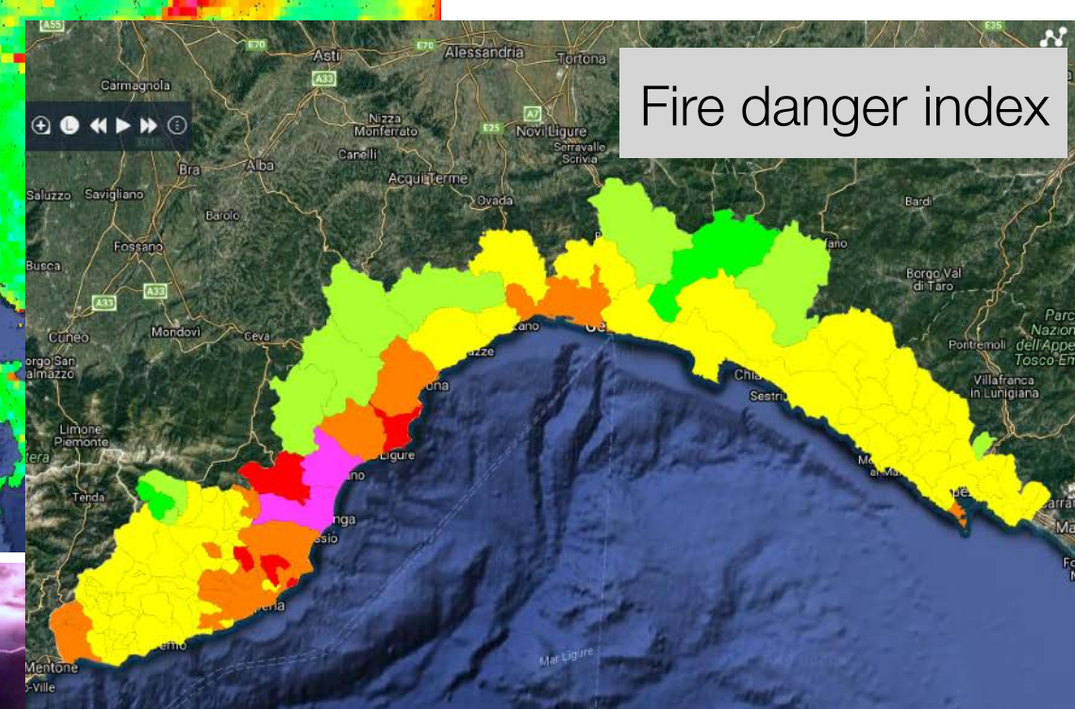
- EFFIS (JRC-ECMWF)
- RISICO (CIMA)

Products

- Multiple indexes assessing the hazard







weather-induced forest fires

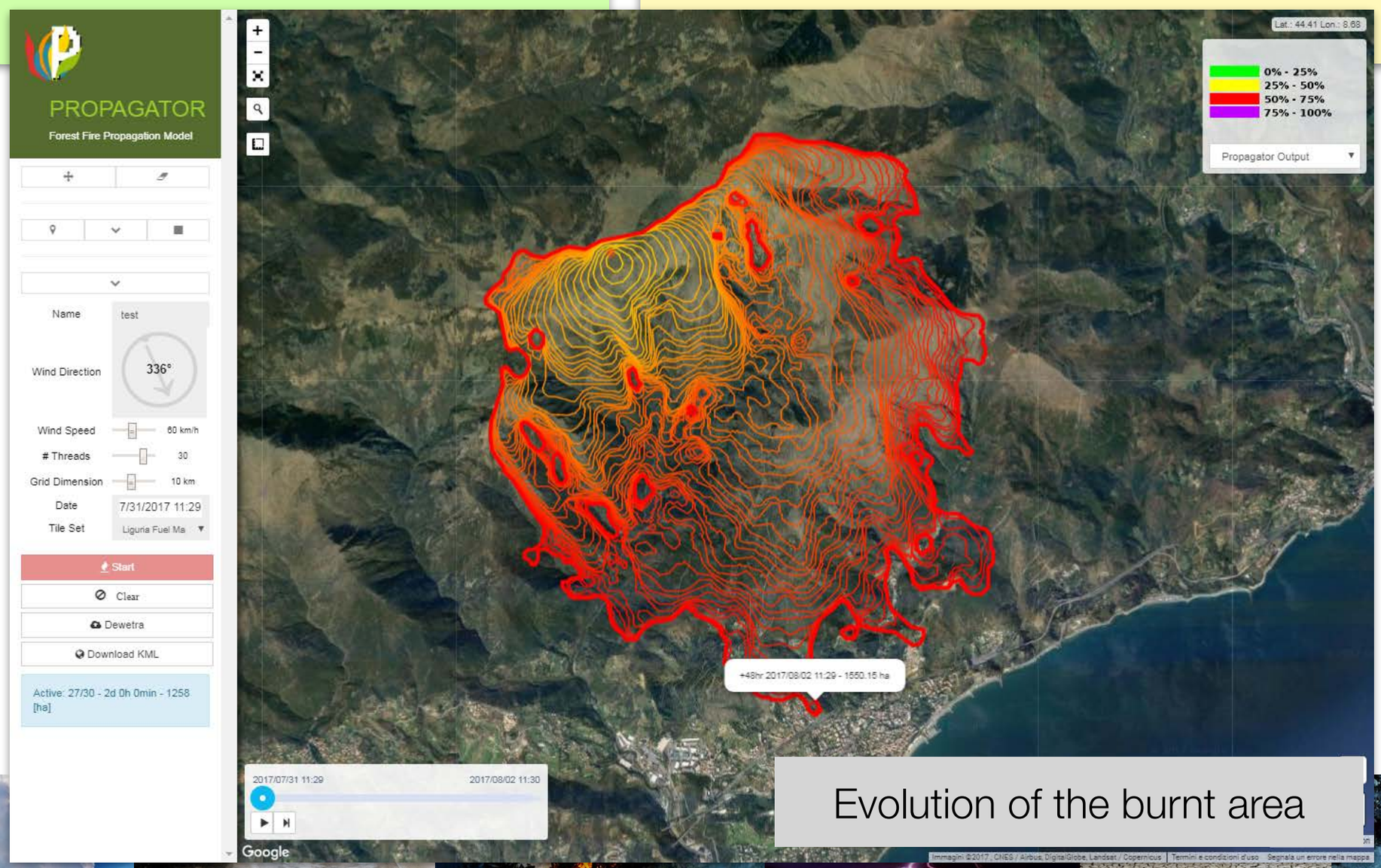
Hazard forecasting

Propagation forecasting

- Propagator (CIMA)

Products

- Evolution of the burnt area.



Evolution of the burnt area

droughts

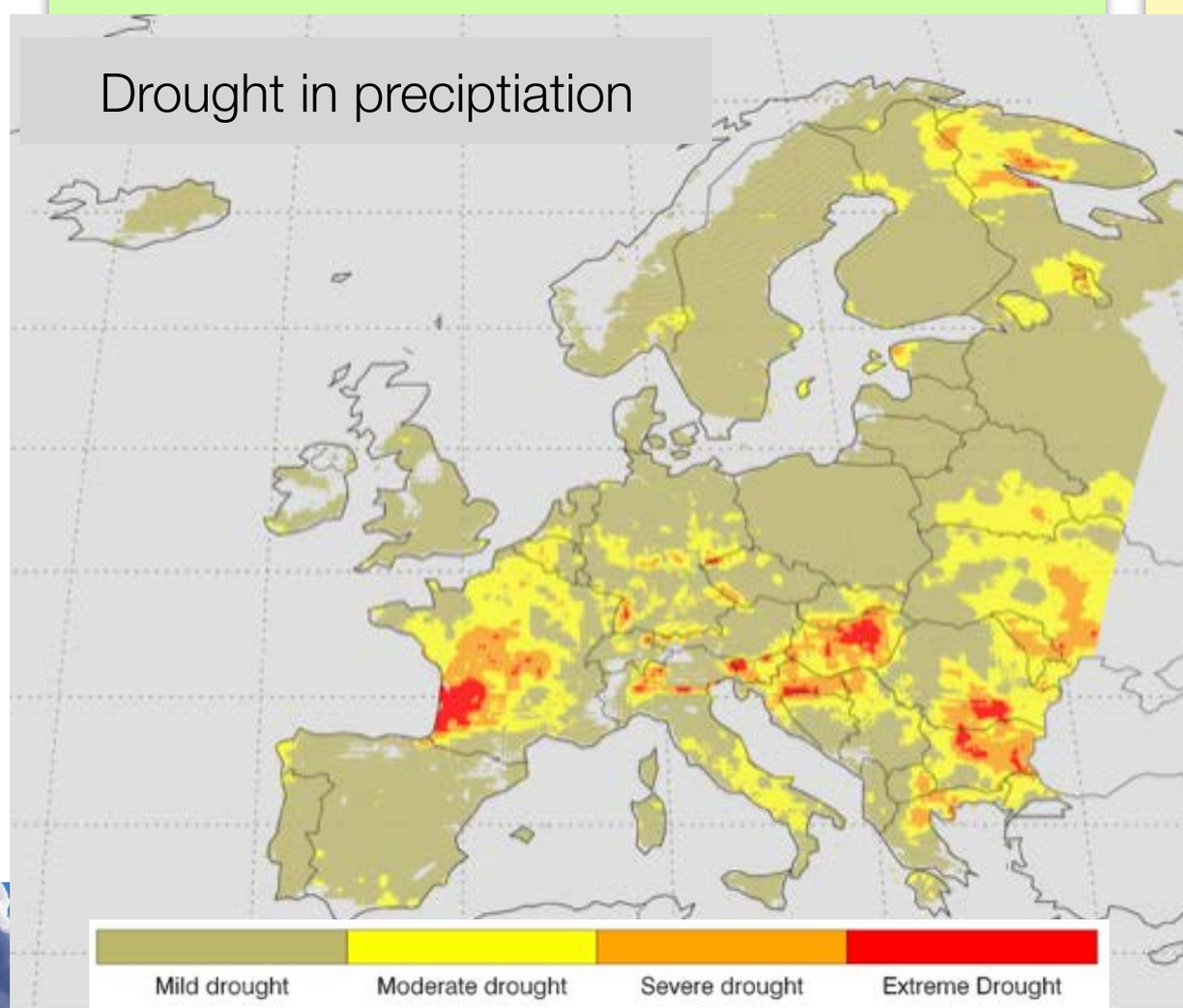
Ran with seasonal hydrometeorological forecasts

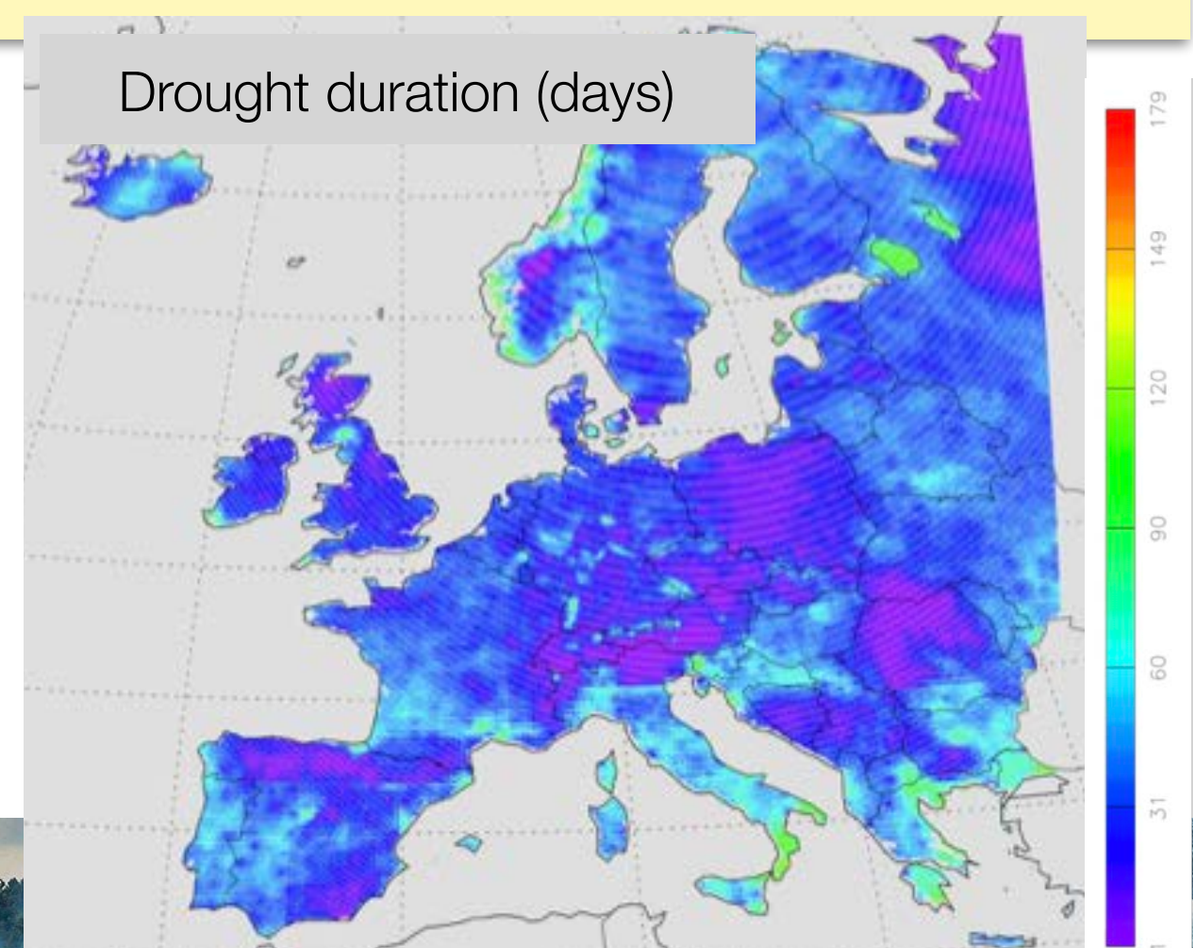
Drought forecasting

- Standardised Drought Method
- Threshold Drought Method

Products

- Forecasts of the drought in the different components of the hydrological cycle (precipitation, soil moisture, runoff…)





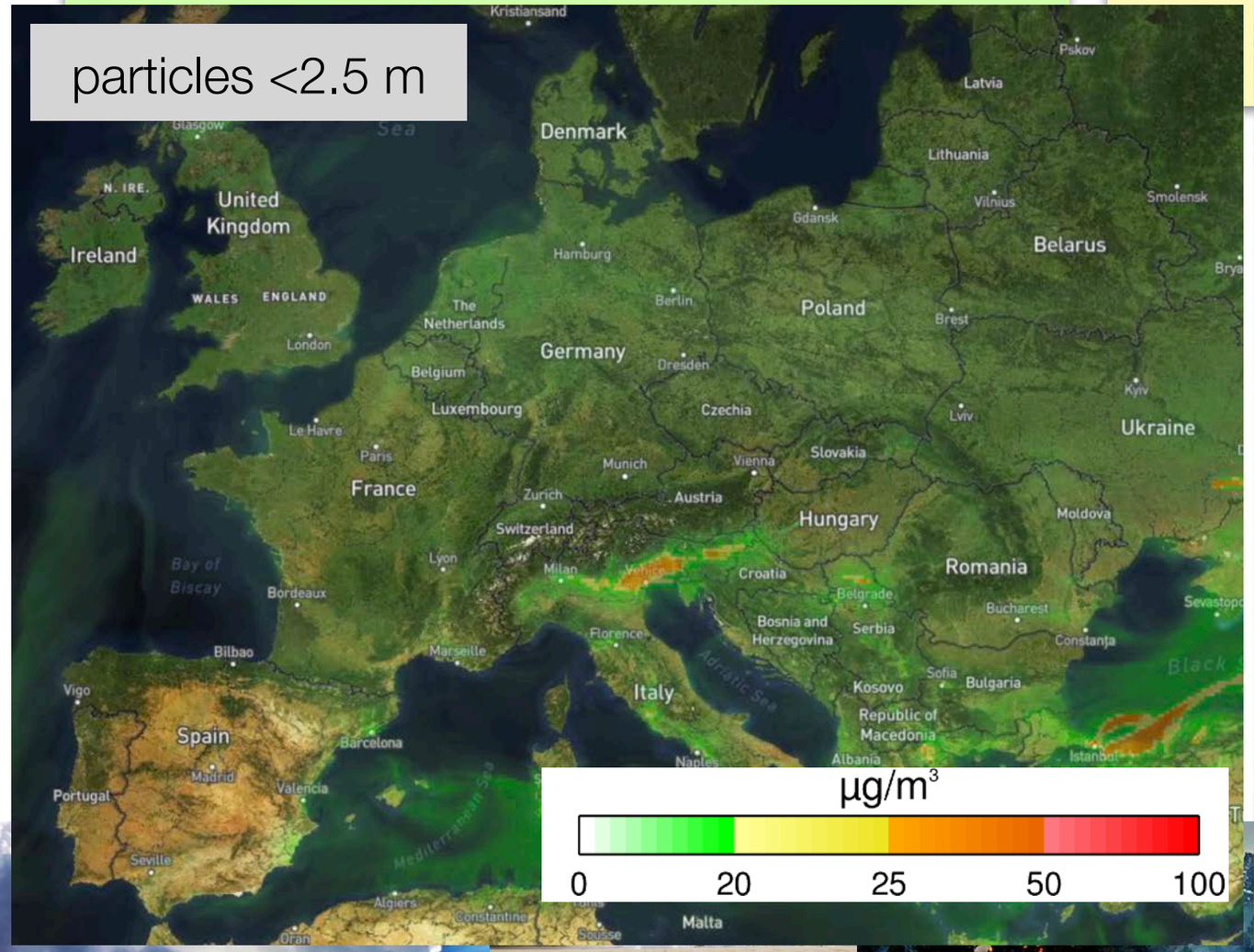
heatwaves & health impacts

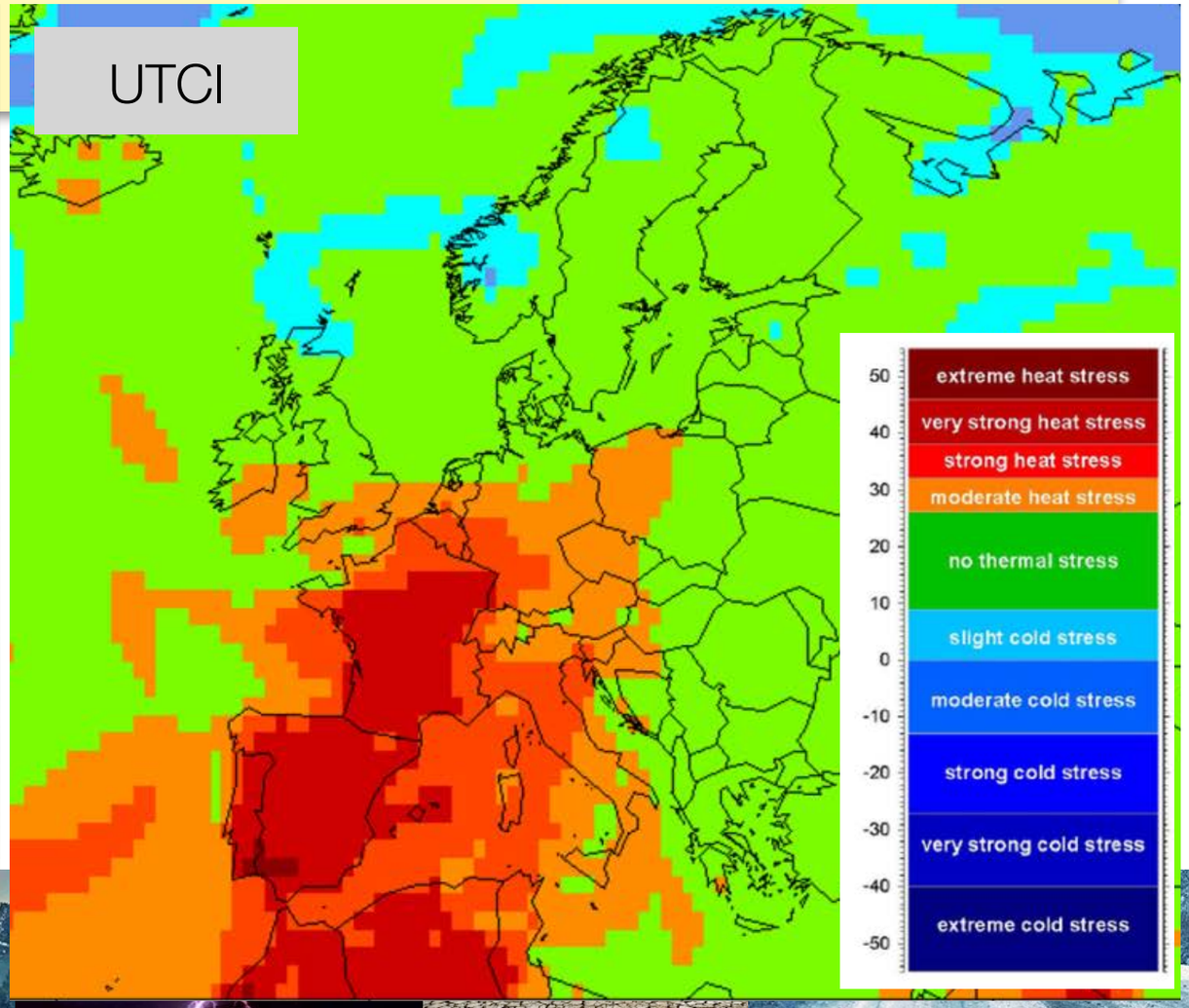
Models

- Regional Air Quality System
- UTCI forecast system

Products

- Concentration of pollutants (particles, NO_2, SO_2, O_3, CO).
- Universal Thermal Climate Index





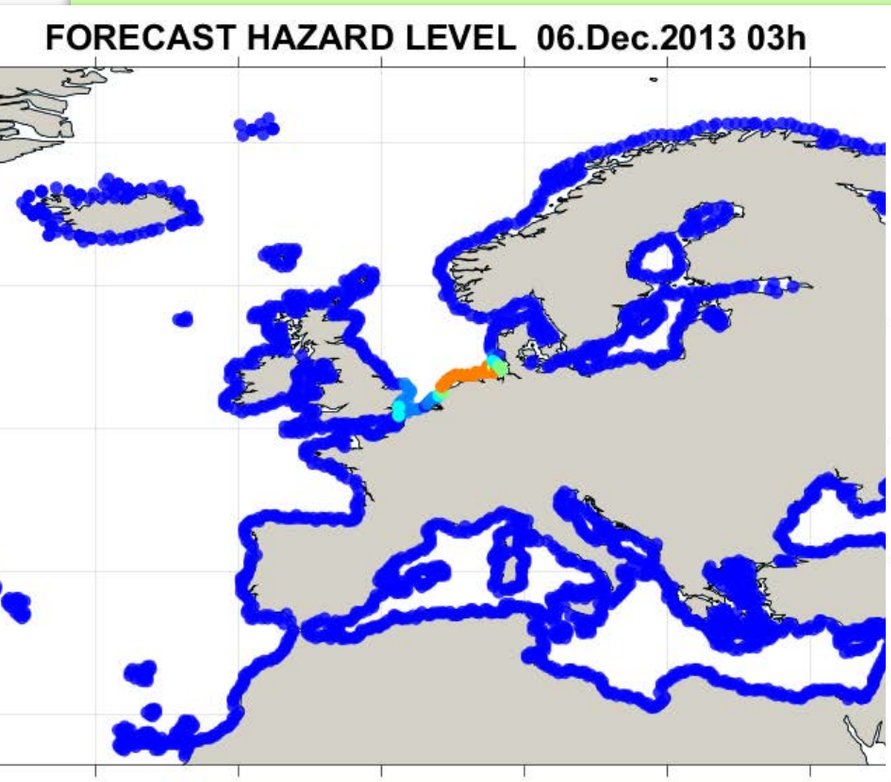
marine storms

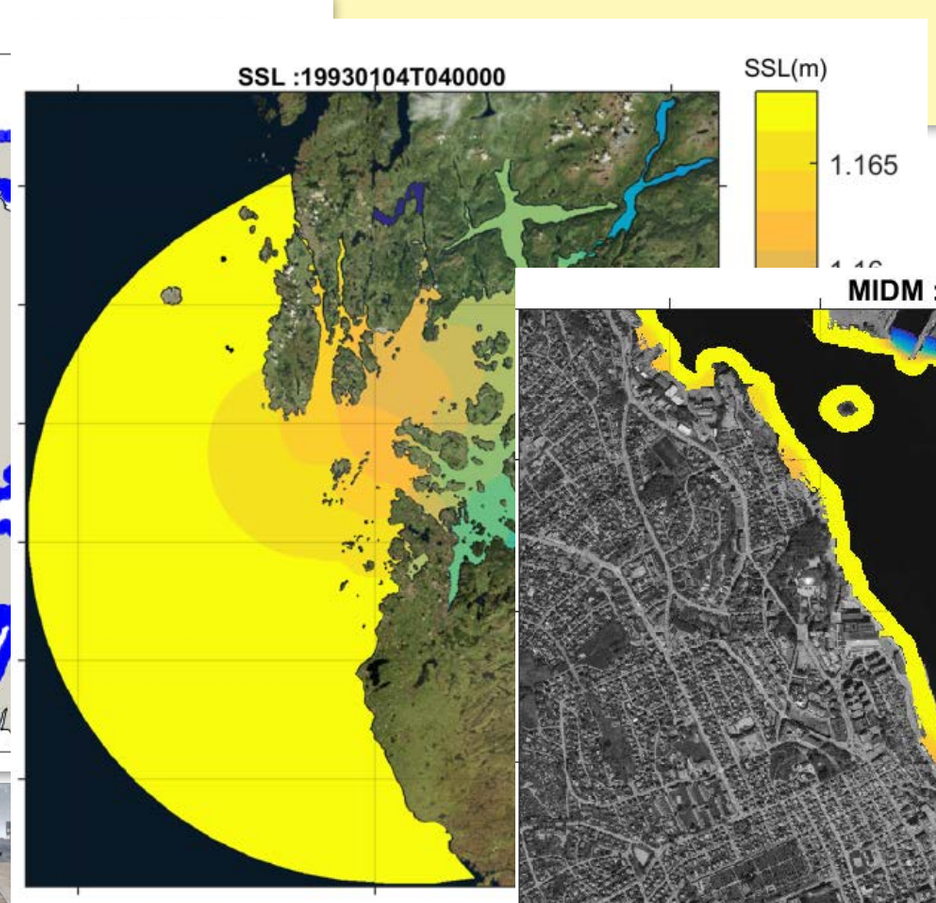
Surge models

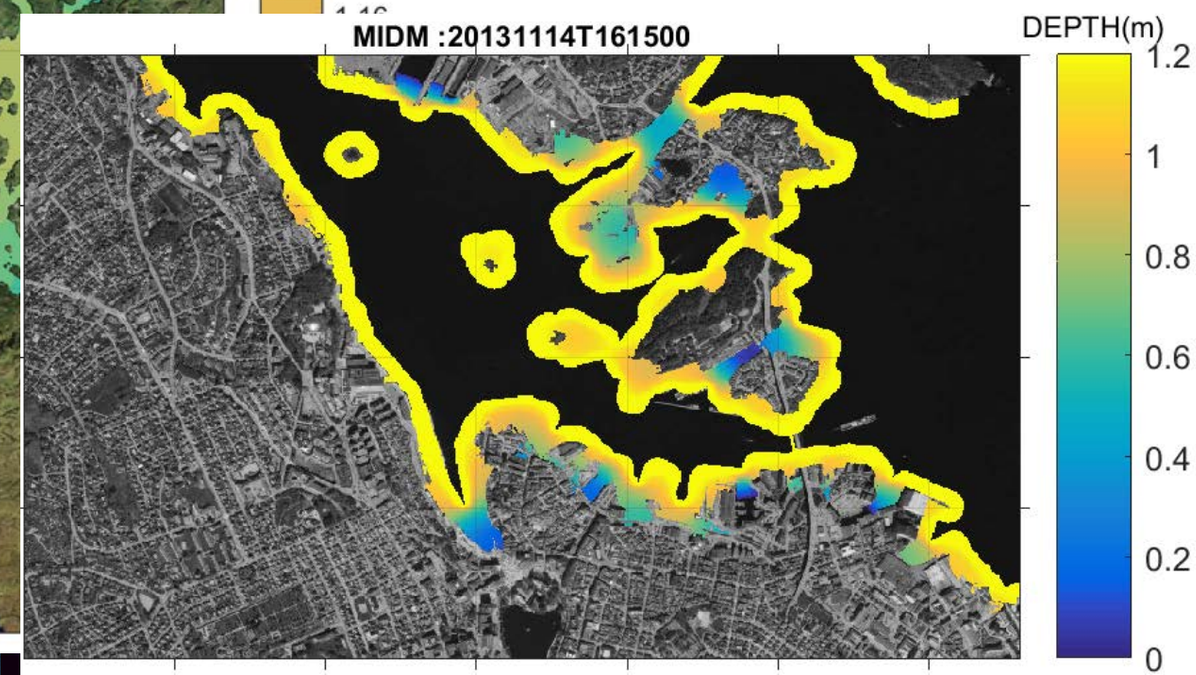
- European storm surge model
- Regional storm surge model
- Local erosion and inundation model

Products

- Sea Surface Level
- Hazard level
- Water level and erosion







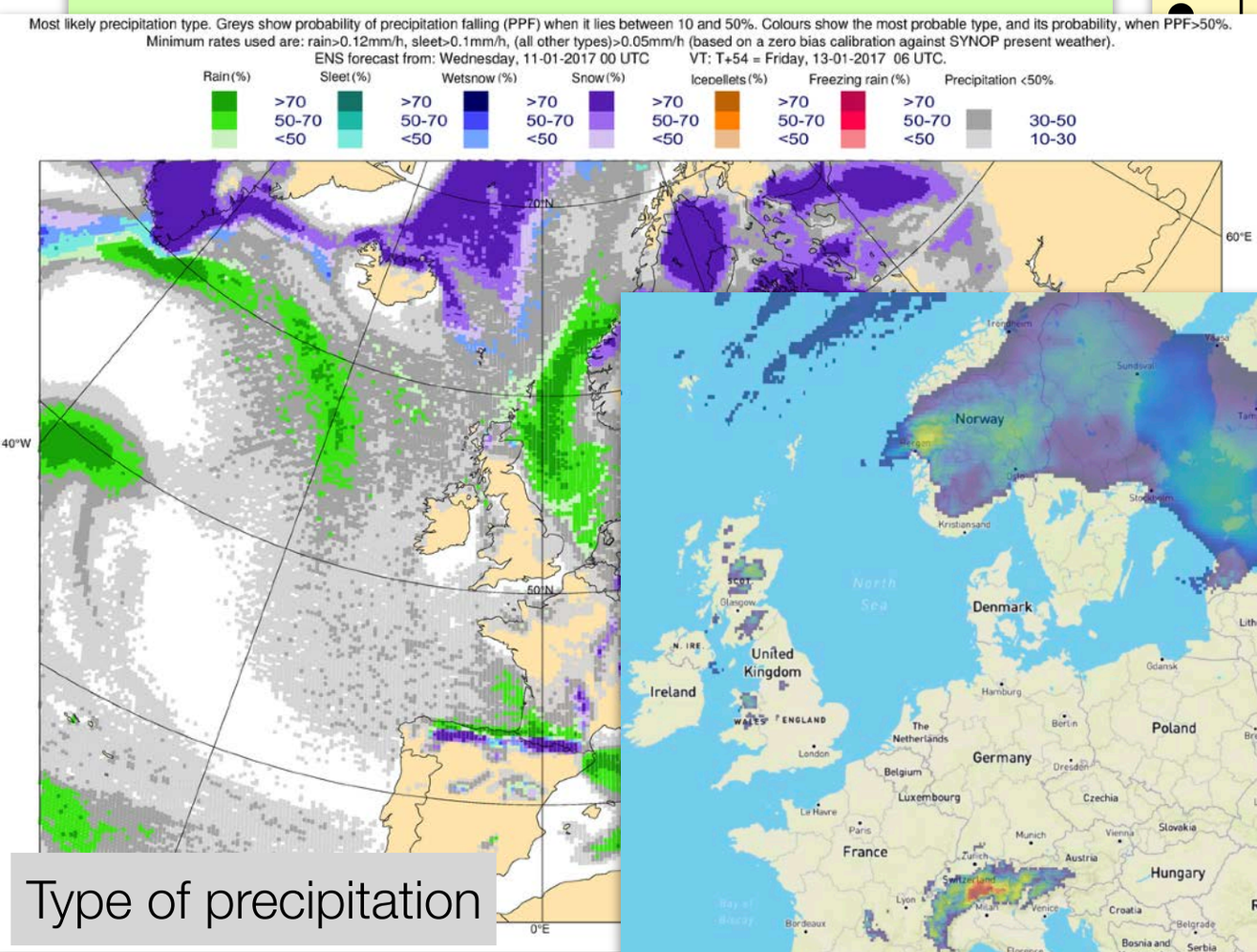
snowfall

Models & algorithms

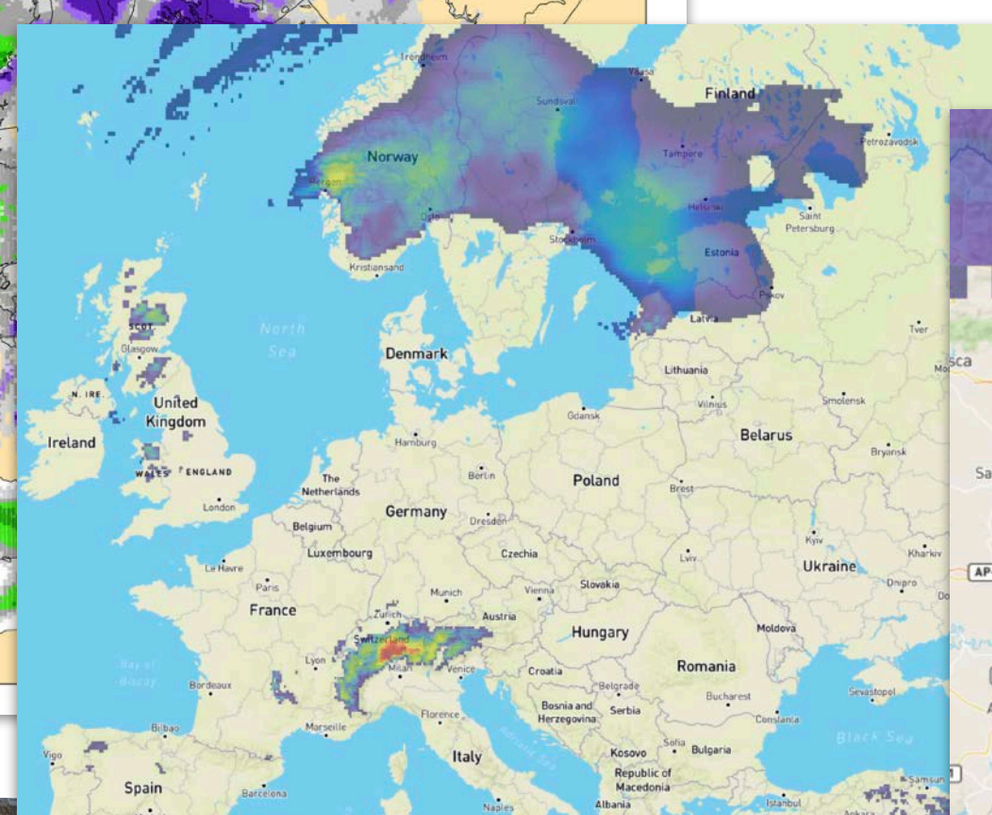
- Type of precipitation
- Snow load forecasting

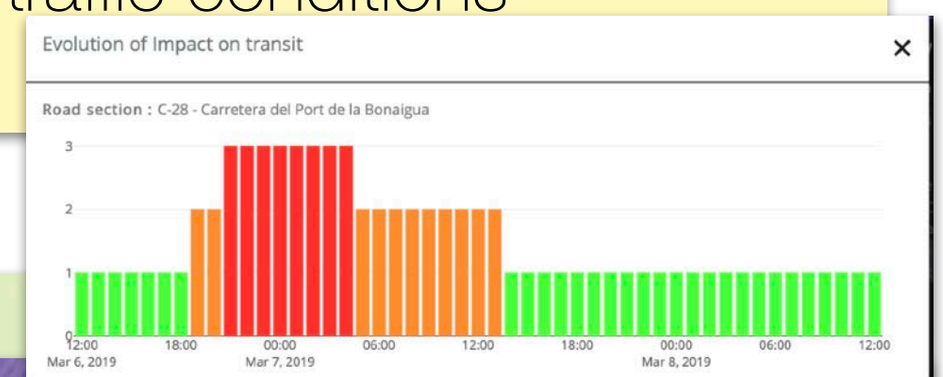
Products

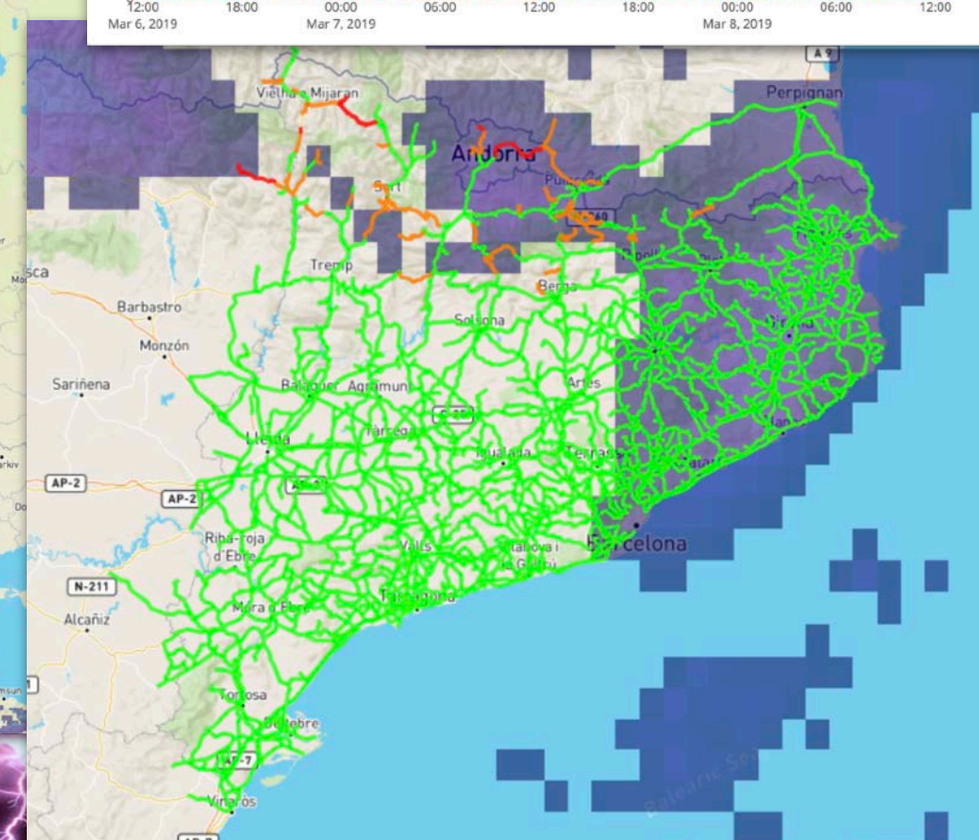
- Type of precipitation
- Snow load on trees
- Road and traffic conditions



Type of precipitation







ANYWHERE catalogue

Main Products Directory Multi-Hazard EWS Contact

Catalogue of ANYWHERE Products for Hazard Forecasting and Impact Localization due to Weather and Climate Events

http://www.anywhere-h2020.eu/catalogue

MULTI-HAZARD EARLY WARNING SYSTEM

Harness the power of advanced **Weather Risk Forecasting** and integrate geolocalized Data or Spatial Imagery into your own solutions.

A4EU OPERATIONAL PLATFORM

Robust yet Simple **Global Situation Awareness** toolkit, **Designed and tested by European Civil Protections** and **First Responders**