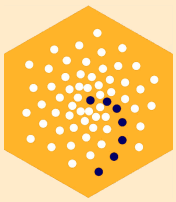


# Updating E-OBS in near real-time

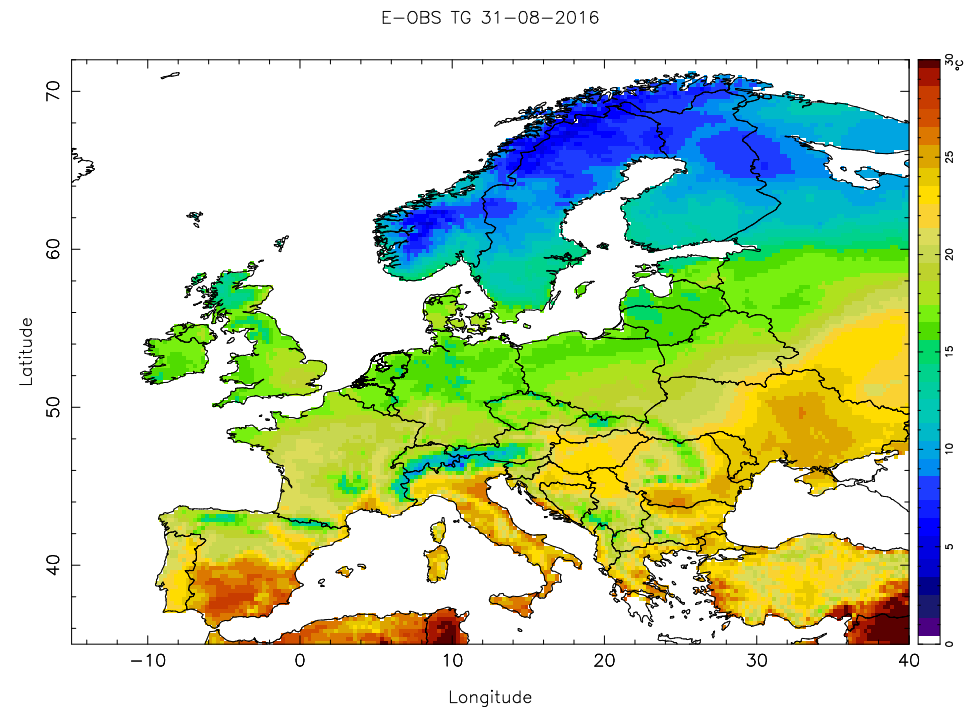
Richard Cornes, Else van den Besselaar

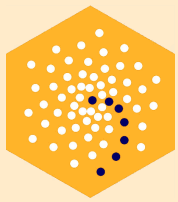
Royal Netherlands Meteorological Institute (KNMI)



# Update cycle of E-OBS

- Full updates with version numbers twice a year
- Preliminary monthly updates
- “First-guess” daily updates



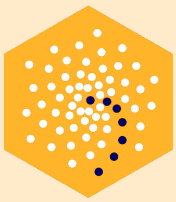


# Full updates

Within UERRA the following versions have been released:

v10.0	1950-01-01 - 2013-12-31	April 2014
v11.0	1950-01-01 - 2014-12-31	April 2015
v12.0	1950-01-01 - 2015-06-30	October 2015
v13.0	1950-01-01 - 2015-12-31	June 2016
v13.1 (pp only)	1950-01-01 - 2015-12-31	July 2016
v14.0	1950-01-01 - 2016-08-31	October 2016

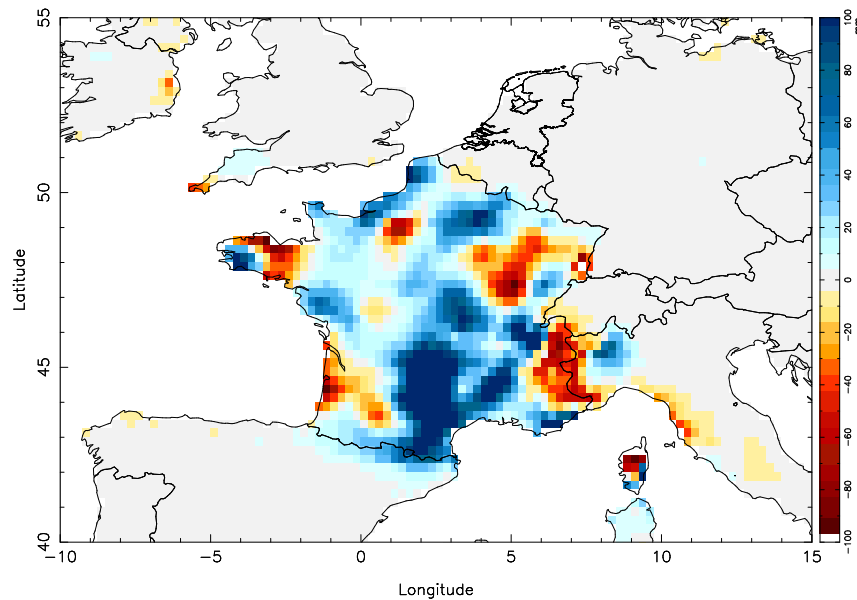
Users informed about releases via dedicated E-OBS email list.



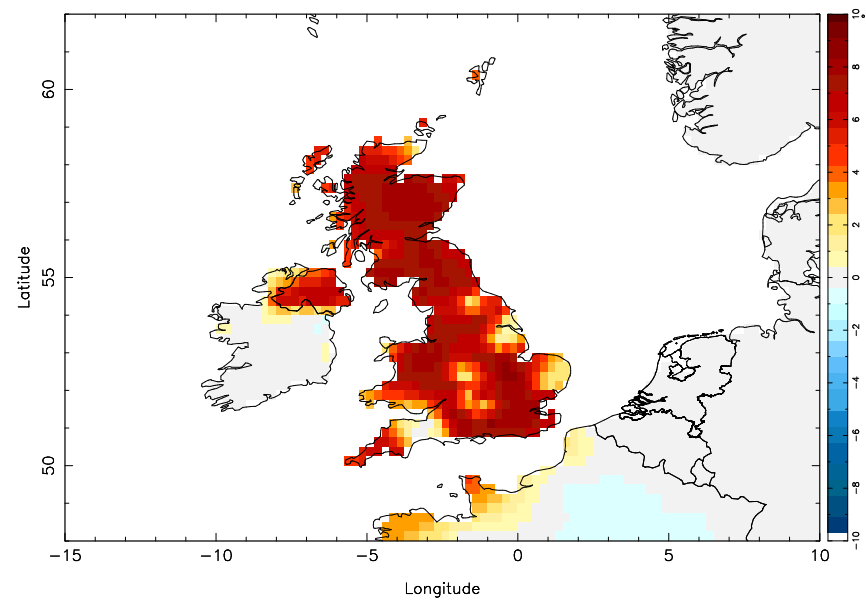
# Full updates: II

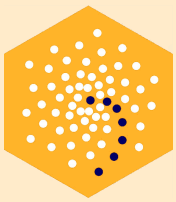
Changes between v14.0 and v13.1

New/updated French stations  
RR yearsum 1981-2010



TX/TN swapped in UK  
TX yearmean 2013

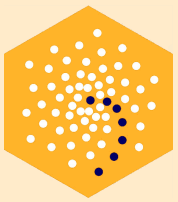




# Monthly updates

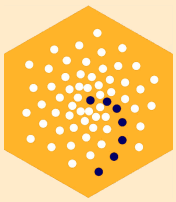
- ECA&D station information updates once per month
- Includes NMHS station information
- E-OBS monthly updates part of it
- Only running for the current year until last month
- Overwritten every month

users informed about monthly update in ECA&D email list (separate from E-OBS email list).



# Daily updates

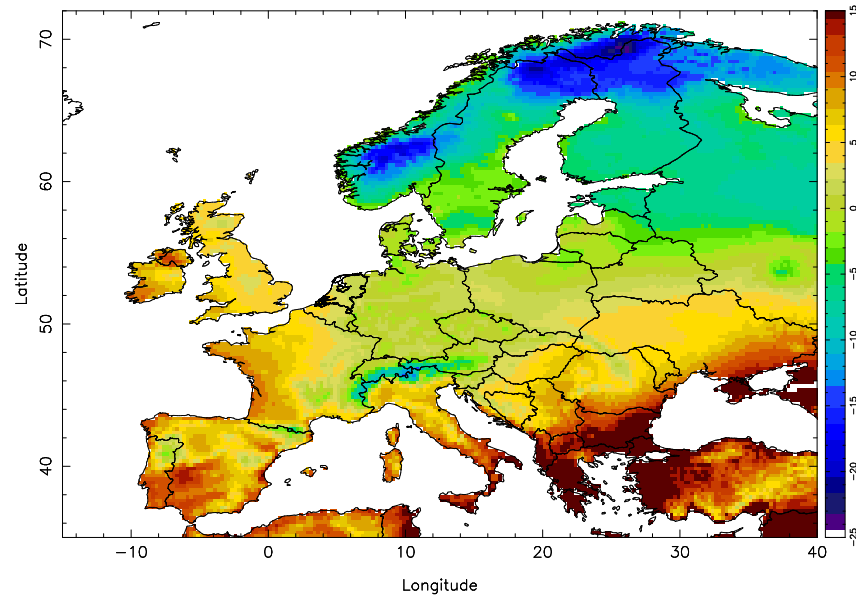
- "First guess" fast release of gridded fields
- Yesterday's field will be available today
- Only GTS data is used
- Still some problems to be solved before public release



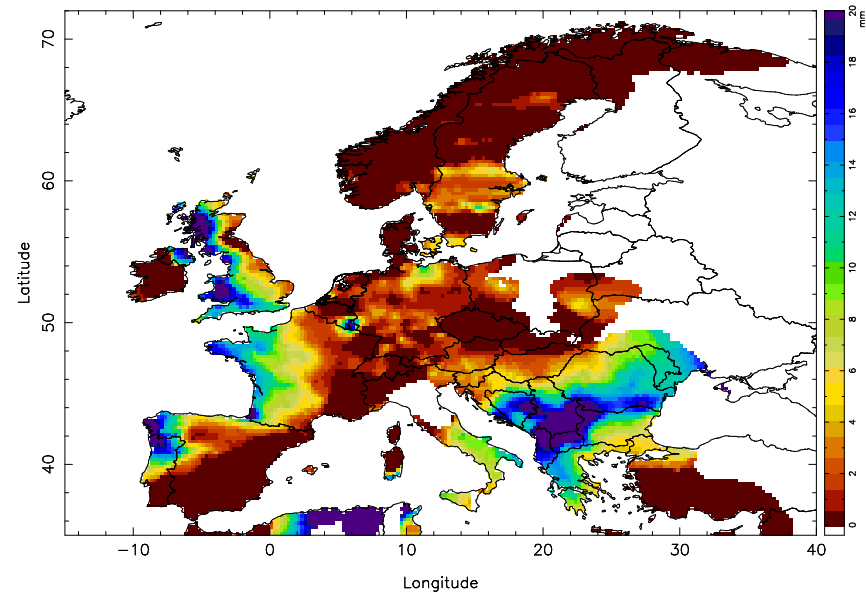
# Daily updates: II

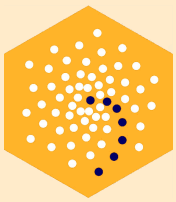
Example for 8 November 2016

TG



RR



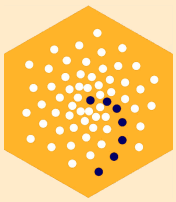


# Daily updates: III

Projects interested in daily updates:

- UERRA project
- CIBs on emerging extreme events
- General European climate services
- NWO Valorius project "Trend or coincidence"
- EUCLEIA project

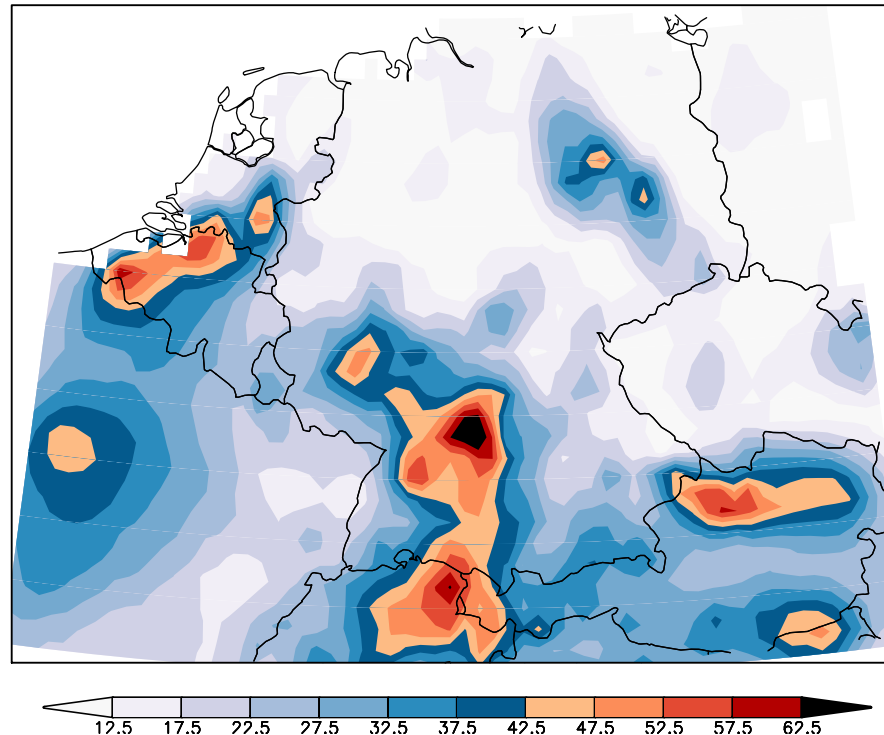




# Daily updates: IV

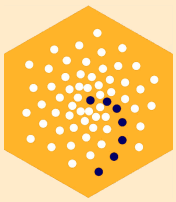
In 2016 used for:

Rapid attribution of the May/June 2016 flood-inducing precipitation in France and Germany to climate change



Highest 1-day precipitation in May 2016

van Oldenborgh, G. J., et al., Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-308, in review, 2016.



# Daily updates: V:

To do:

- Include a basic QC on daily values
- Include precipitation based on 1, 3, 6, 12 hour intervals
- More comparisons with 'standard' E-OBS and other datasets
- Make the calculations operational
- Create access to dataset on ECA&D website
- Write paper for scientific (data) journal
- ...