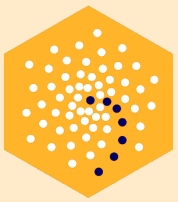


Daily updates of the E-OBS dataset

Else van den Besselaar

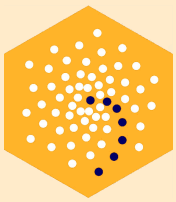
Royal Netherlands Meteorological Institute (KNMI)



What are daily updates?

⇒ to have **today** the E-OBS fields from **yesterday**

'Normal' updates twice a year with monthly preliminary updates
Not always in time for emerging events



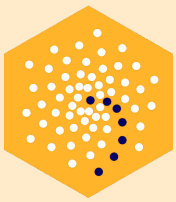
What are daily updates?

Program needs full month of data, calculating for running year:

- take E-OBS input data from previous month
- include data from GTS network from beginning of the month until yesterday
- use station climatology for remainder of the month
- link GTS stations to ECA station IDs

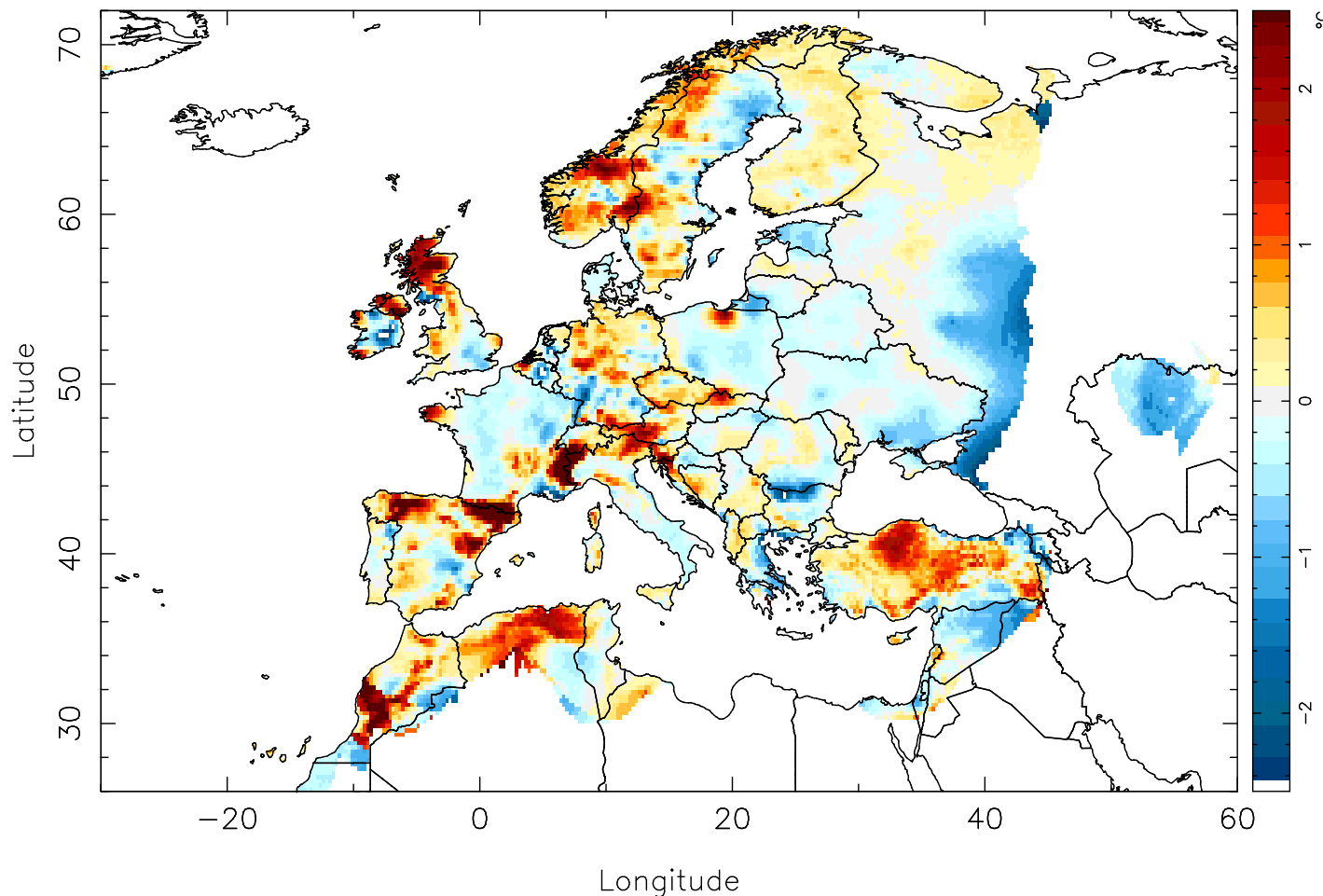
schematic representation:

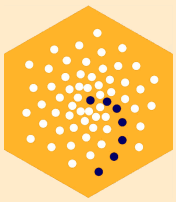




What are daily updates?

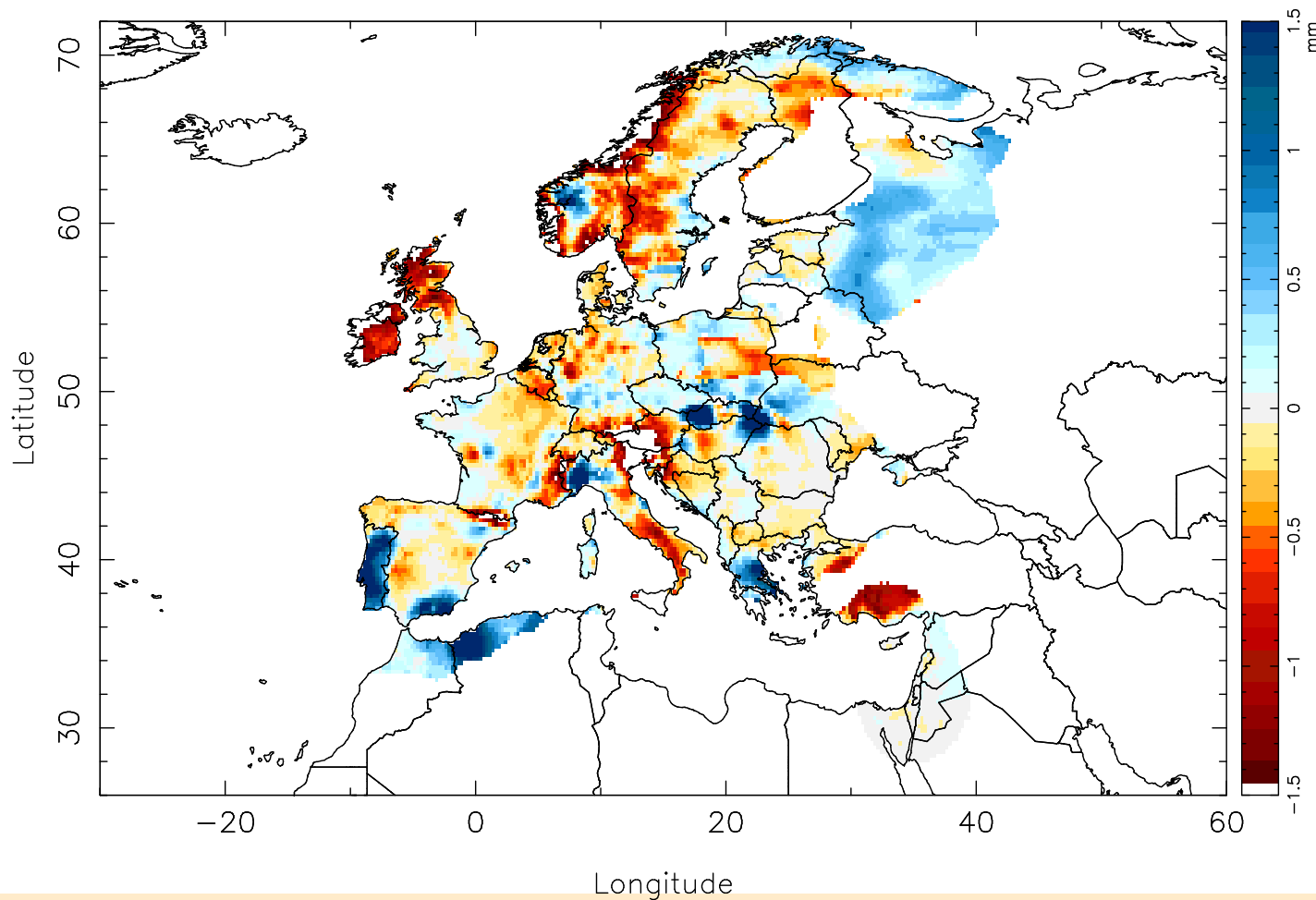
Difference in mean of daily mean temperature for 2015-04-01 to 2015-10-31 (daily E-OBS - monthly E-OBS)

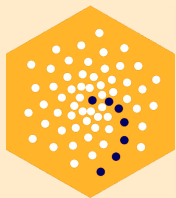




What are daily updates?

Difference in mean of precipitation amount for 2015-04-01 to 2015-10-31 (daily E-OBS - monthly E-OBS)

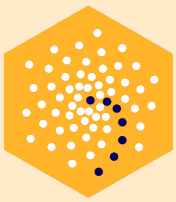




Already used for:

Newspaper about heatwave in June/July 2015 (printed 4 July 2015):

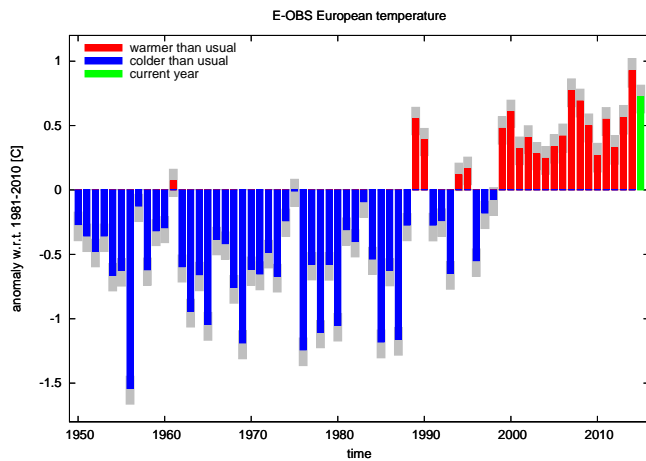




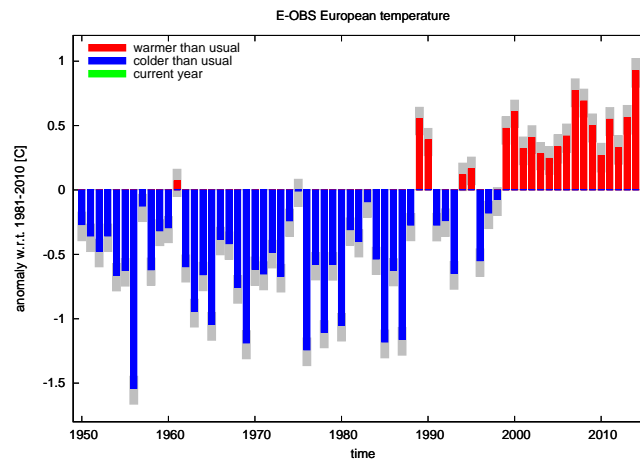
Already used for:

First release of CIB about warm 2015 (22 December 2015, also on KNMI homepage and news sites/television):

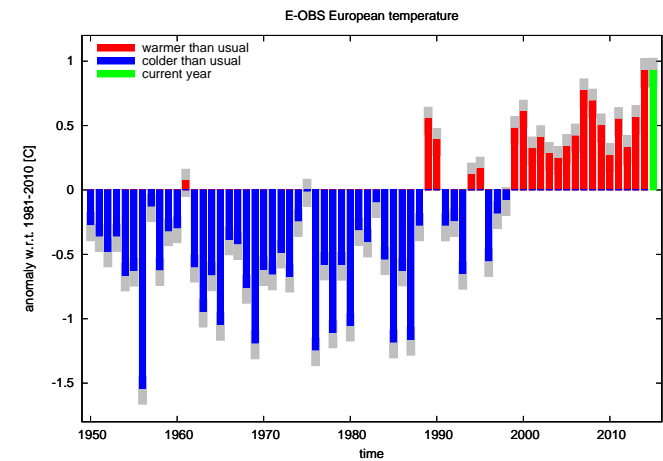
No daily updates

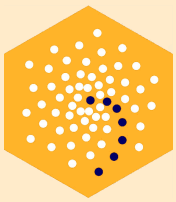


2 weeks daily updates



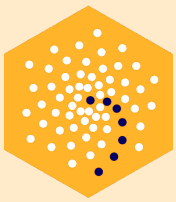
Full December update



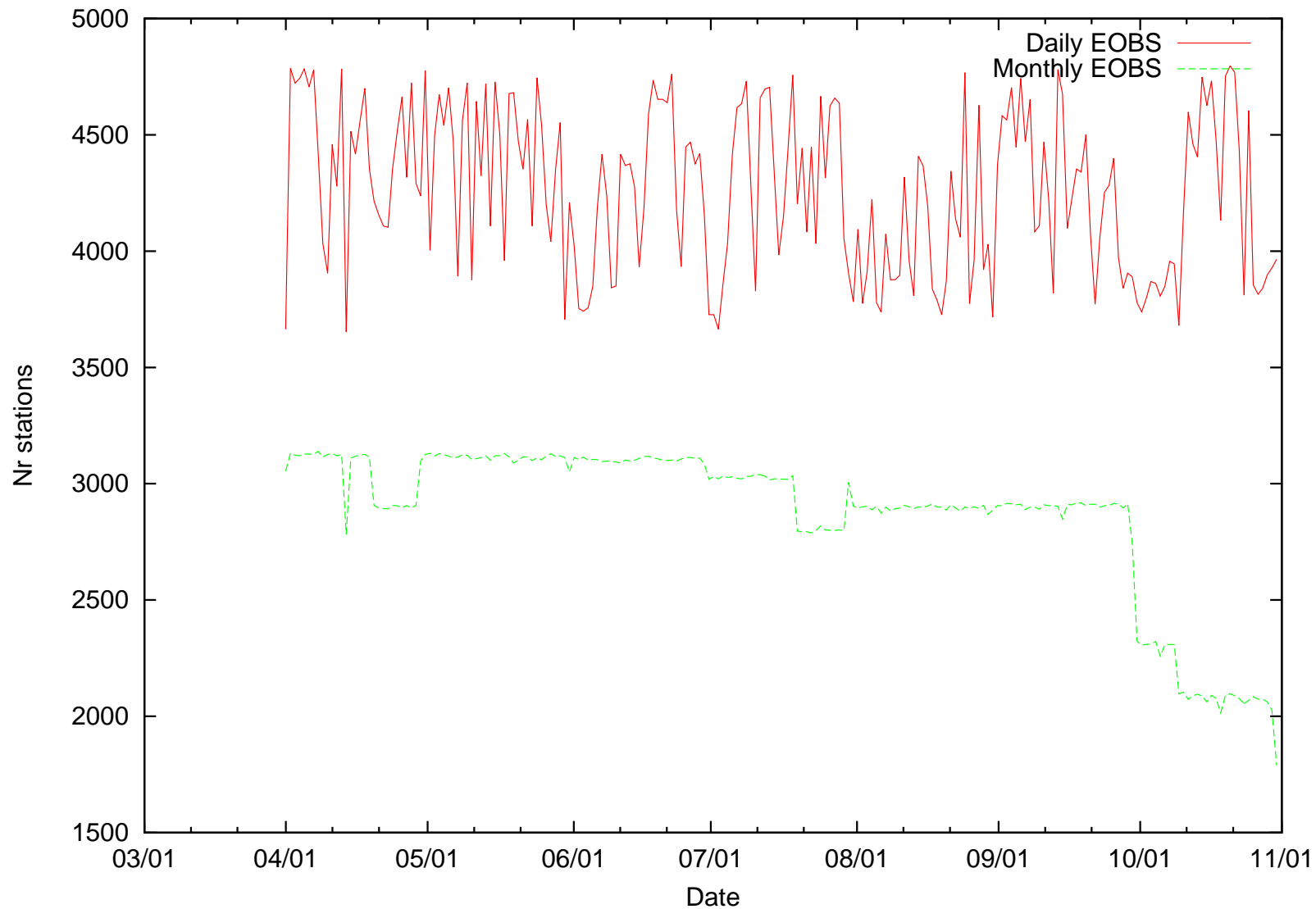


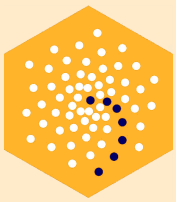
To be used in:

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

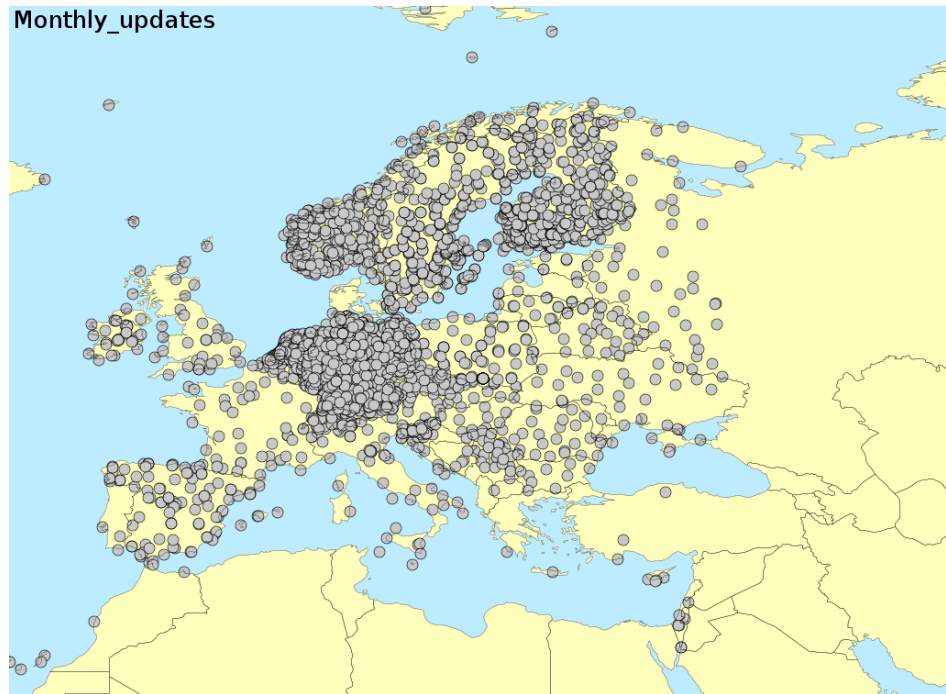


Discussion points:

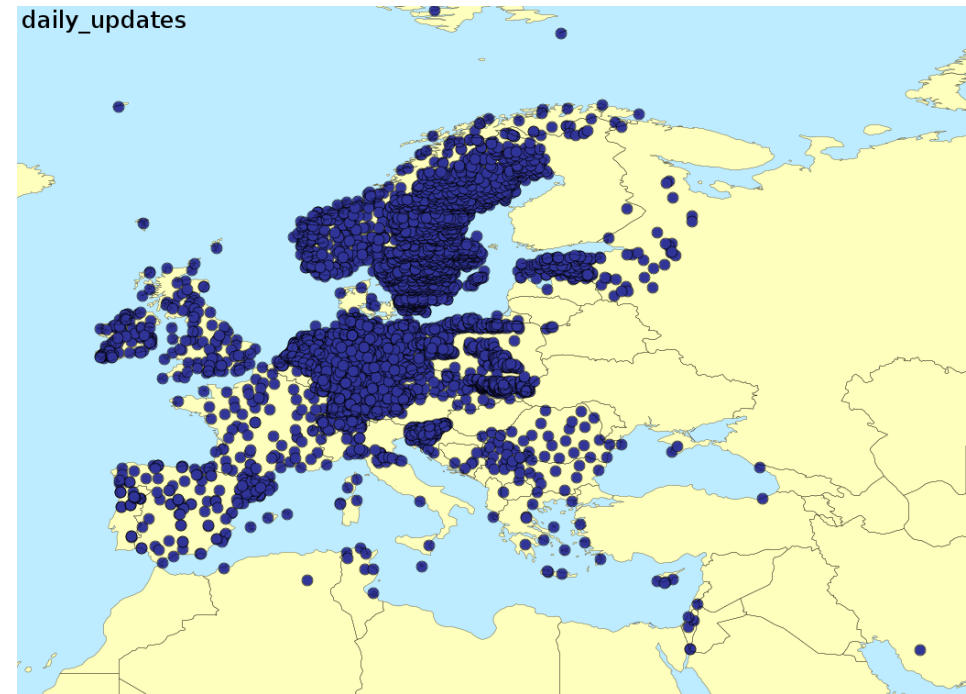




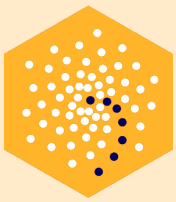
Discussion points:



- GTS from MARS Archive
- Archive, but not immediately available
- 2 x 12h Precipitation
- Hexadecimal and bufr formats



- GTS from KNMI Archive
- Immediately available, but no archive
- 24h Precipitation
- Only bufr formats



To do:

- 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
- ...

Thanks!