

201808 - Rainfall - S France

Status: Finalised Material from: Linus, Esti

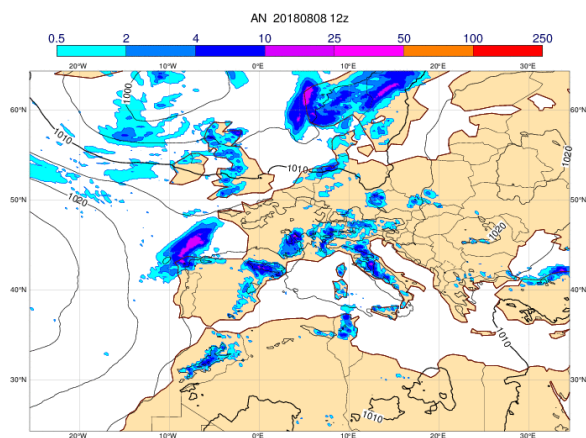
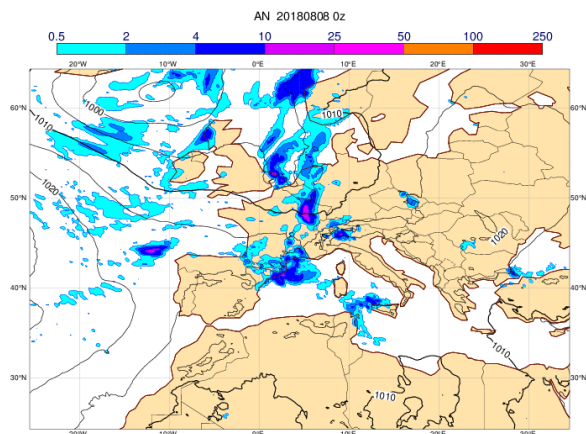
1. Impact

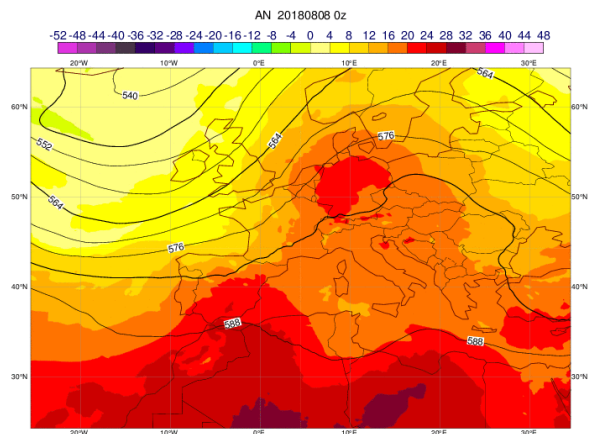
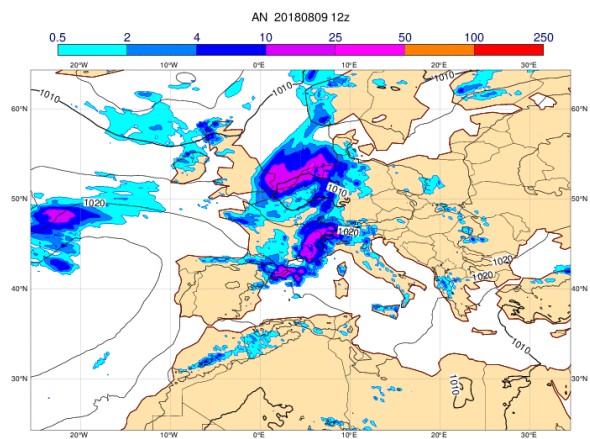
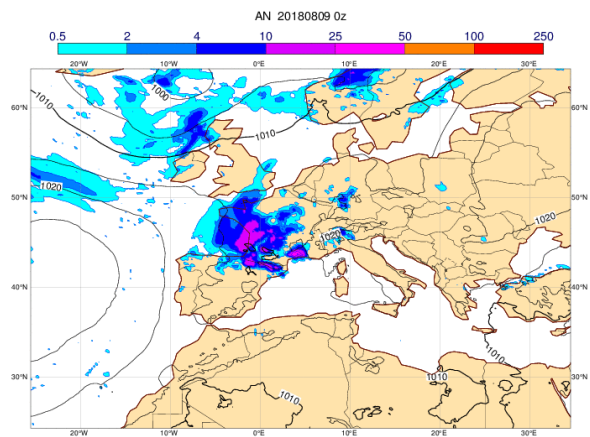
Heavy floods have forced the evacuation of 1,600 people on 9 August in southern France and one man is missing. The worst affected area was around Gard, Ardeche and Drome. In one summer camp in Saint-Julien-de-Peyrolas, in the Gard region, 119 children were evacuated.

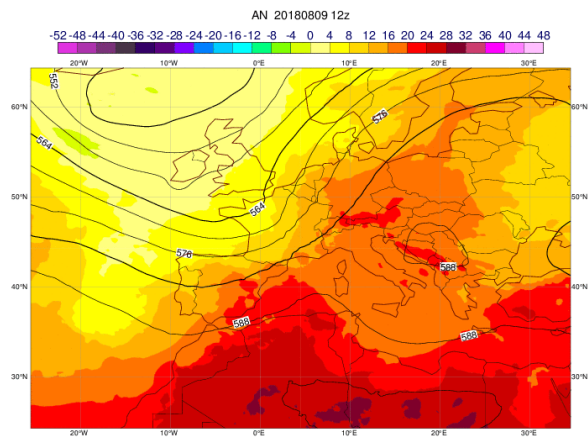
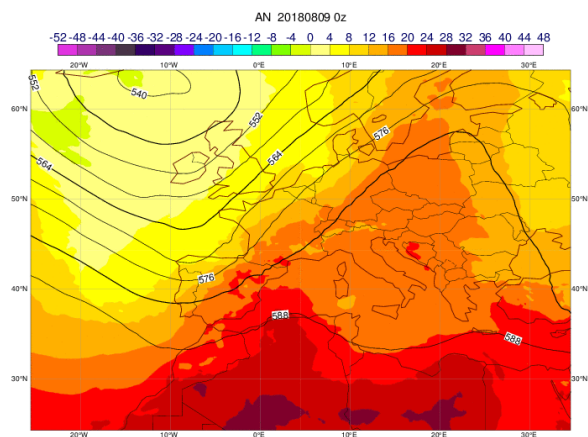
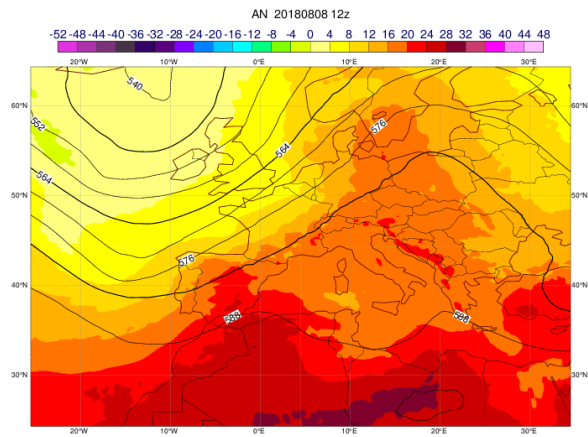
<https://www.bbc.co.uk/news/world-europe-45134715>

2. Description of the event

The series of plots below show analysis of MSLP and 6-hour precipitation (top) and Z500 and T850 (bottom) from 8 Aug 00z to 9 Aug 12z.





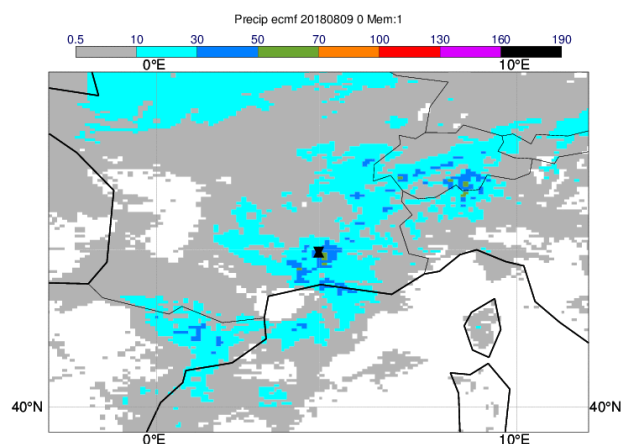
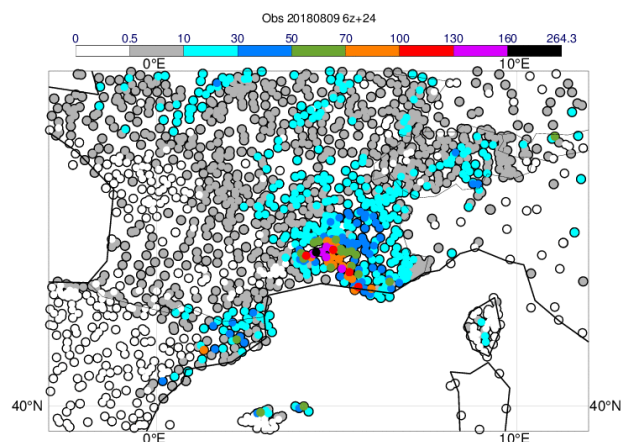


3. Predictability

3.1 Data assimilation

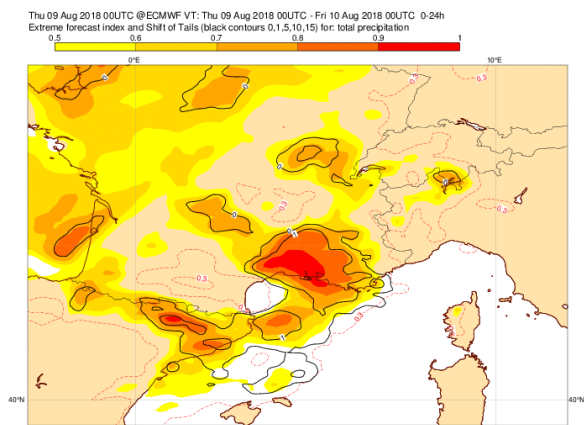
3.2 HRES

The plot below show observed 24-hour precipitation (first plot) valid for 9 August 06z to 10 August 06z and HRES forecasts for 24-hour precipitation valid the same date (shade).

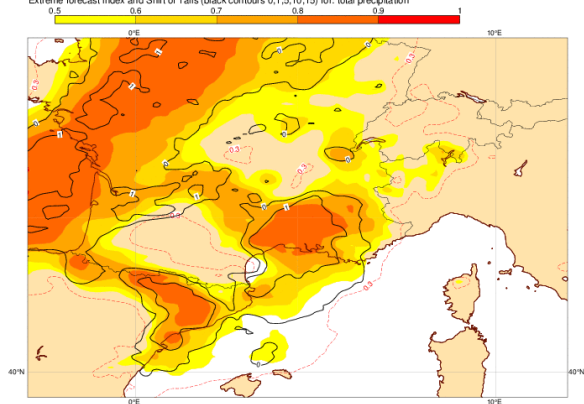


3.3 ENS

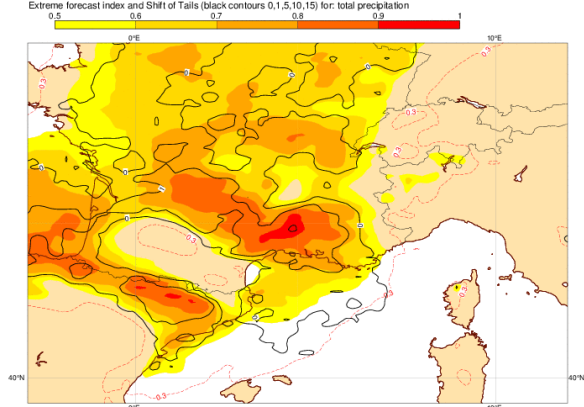
The plots below shows EFI and SOT for precipitation valid 10 August.



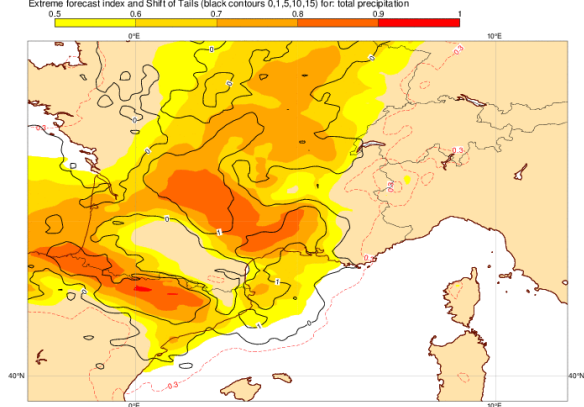
Wed 08 Aug 2018 00UTC @ECMWF VT: Thu 09 Aug 2018 00UTC - Fri 10 Aug 2018 00UTC 24-48h
Extreme forecast index and Shift of Tails (black contours 0,1,5,10,15) for: total precipitation



Tue 07 Aug 2018 00UTC @ECMWF VT: Thu 09 Aug 2018 00UTC - Fri 10 Aug 2018 00UTC 48-72h
Extreme forecast index and Shift of Tails (black contours 0,1,5,10,15) for: total precipitation

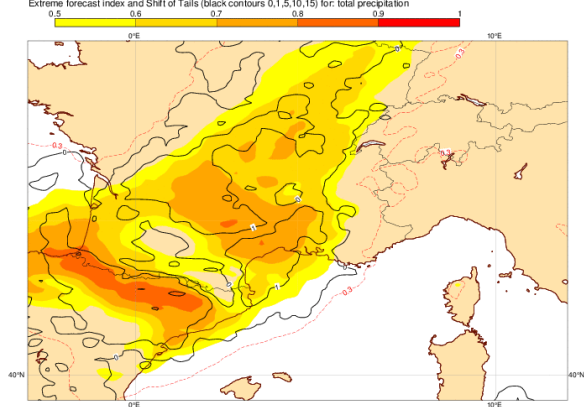


Mon 06 Aug 2018 00UTC @ECMWF VT: Thu 09 Aug 2018 00UTC - Fri 10 Aug 2018 00UTC 72-96h
Extreme forecast index and Shift of Tails (black contours 0,1,5,10,15) for: total precipitation



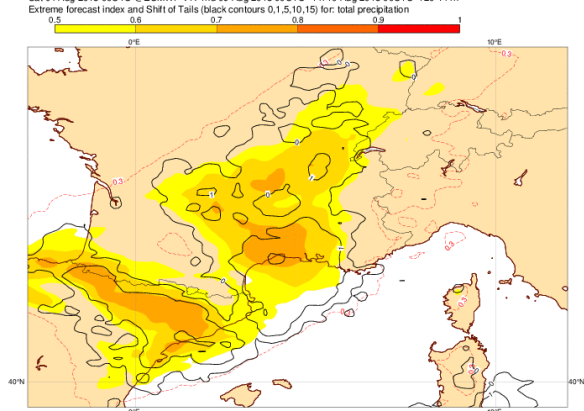
Sun 05 Aug 2018 00UTC @ECMWF VT: Thu 09 Aug 2018 00UTC - Fri 10 Aug 2018 00UTC 96-120h

Extreme forecast index and Shift of Tails (black contours 0,1,5,10,15) for: total precipitation



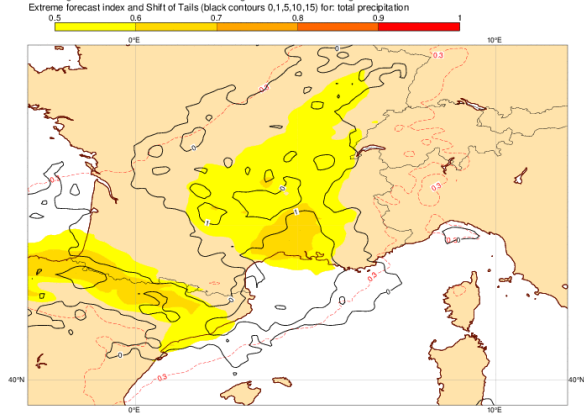
Sat 04 Aug 2018 00UTC @ECMWF VT: Thu 09 Aug 2018 00UTC - Fri 10 Aug 2018 00UTC 120-144h

Extreme forecast index and Shift of Tails (black contours 0,1,5,10,15) for: total precipitation



Fri 03 Aug 2018 00UTC @ECMWF VT: Thu 09 Aug 2018 00UTC - Fri 10 Aug 2018 00UTC 144-168h

Extreme forecast index and Shift of Tails (black contours 0,1,5,10,15) for: total precipitation



3.4 Monthly forecasts

3.5 Comparison with other centres

4. Experience from general performance/other cases

5. Good and bad aspects of the forecasts for the event

6. Additional material