

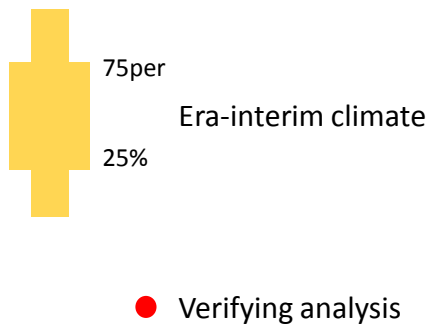
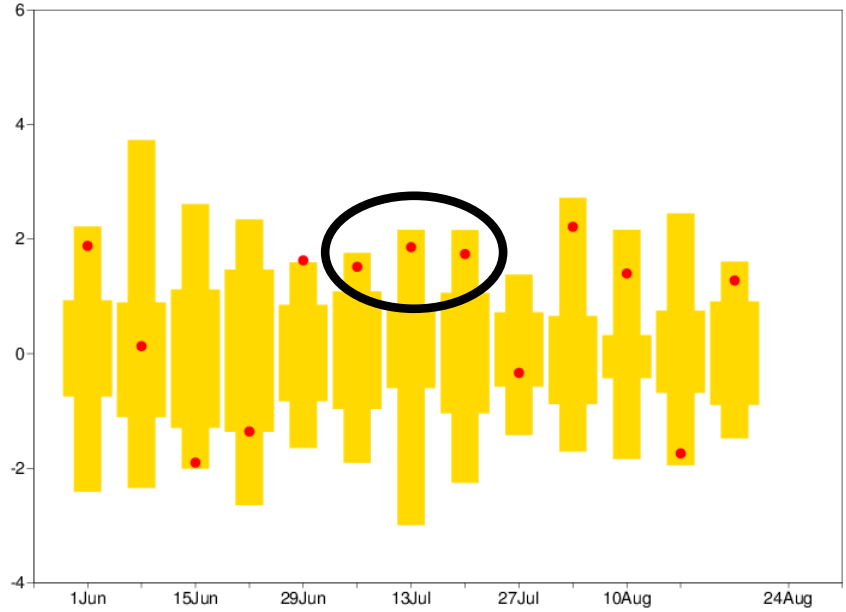
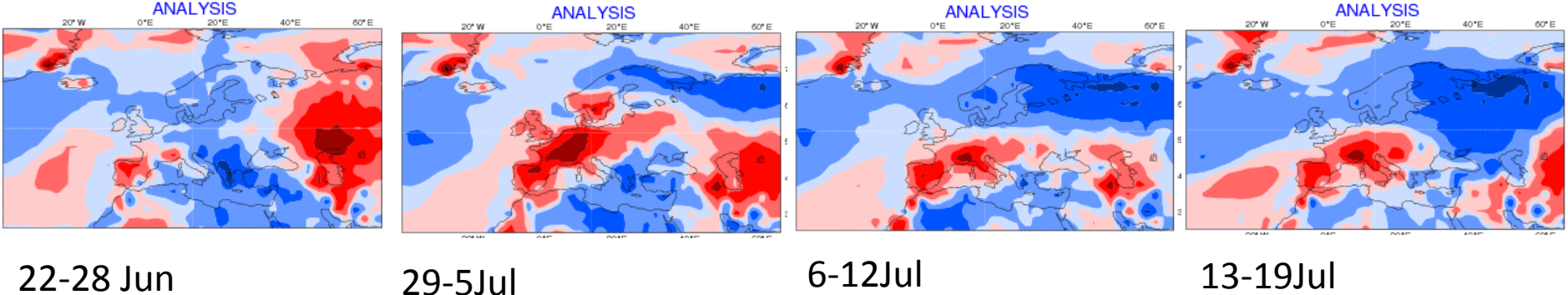
Heat and cold spells :

Exploring the use of CDF and EFI with appropriate spatial and time averages

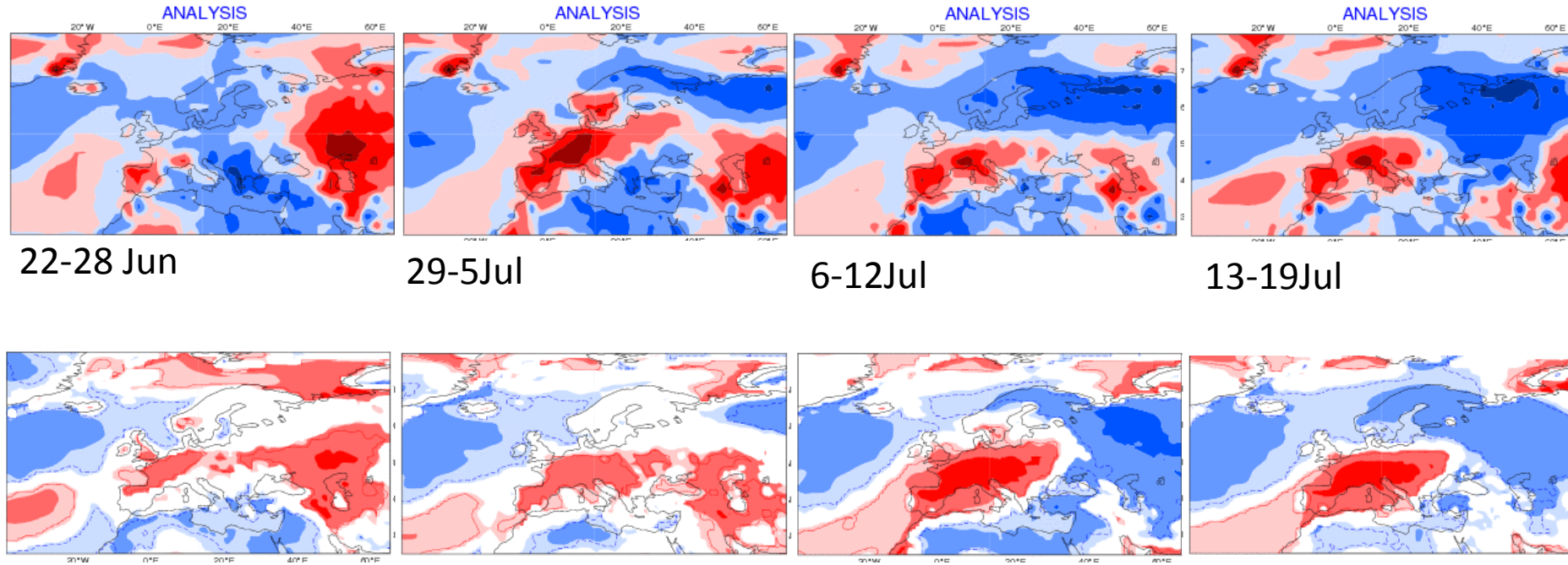
Assessing the skill of EFI beyond day 15 using the re-forecast from S2S.

Diagnostic of the recent heat wave events (see example below)

Heat wave over Central-southern Europe: 2mt weekly mean anomalies



Heat wave over Central-southern Europe: 2mt weekly mean anomalies



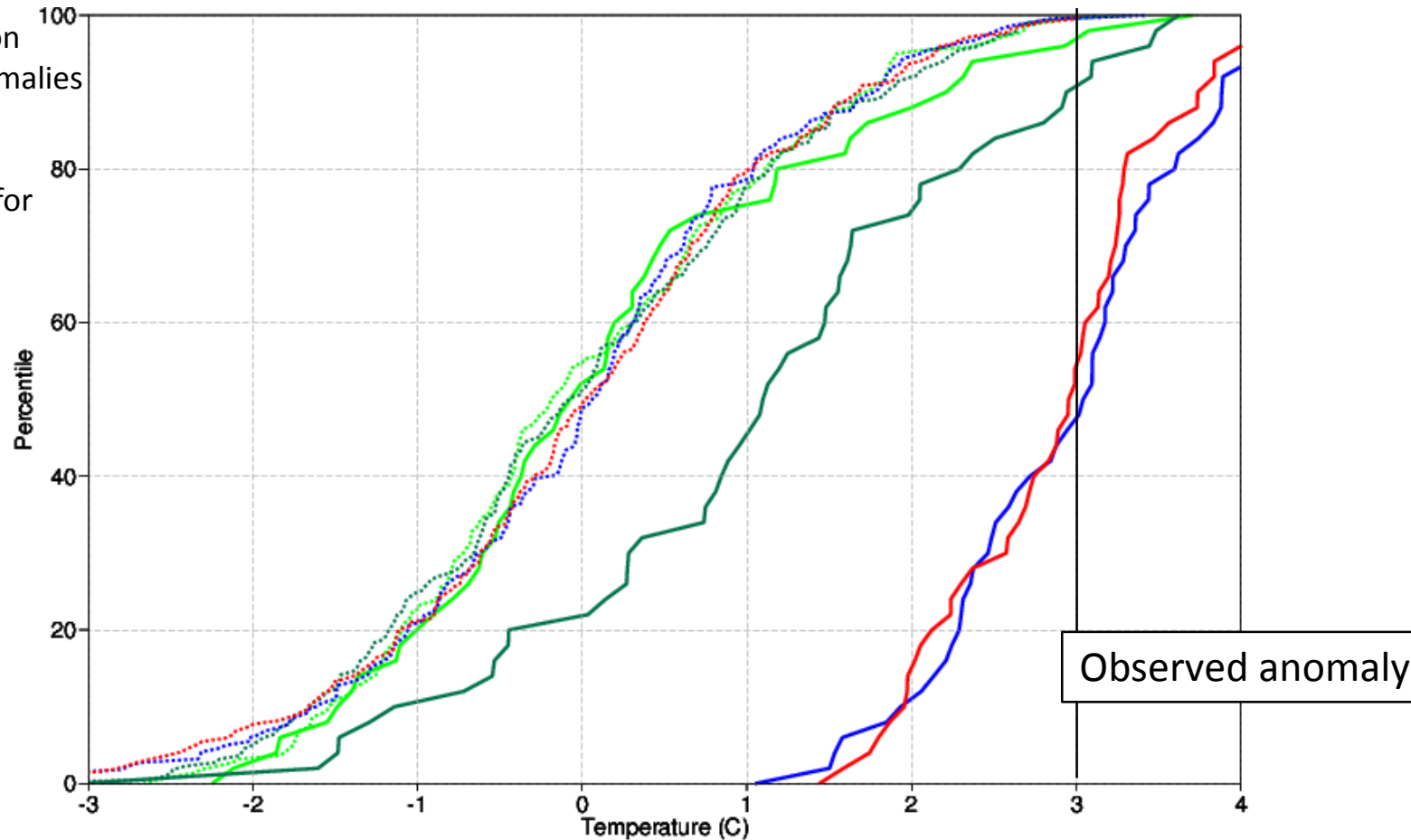
ECMWF Forecasts at range: 12-18 days verifying the analysis at the top

2m temp CDF: ensemble predictions for 29 June - 5 July 2015

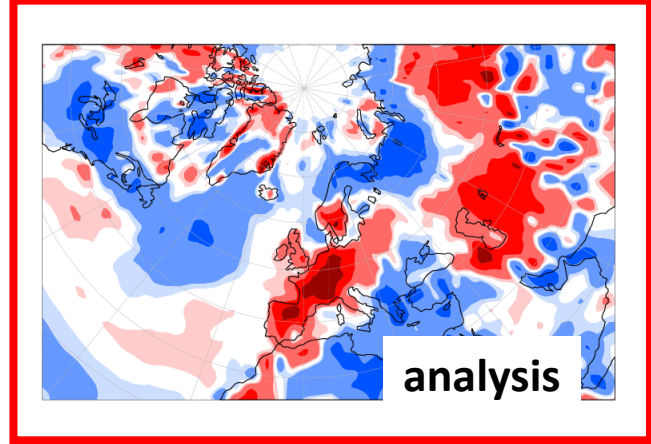
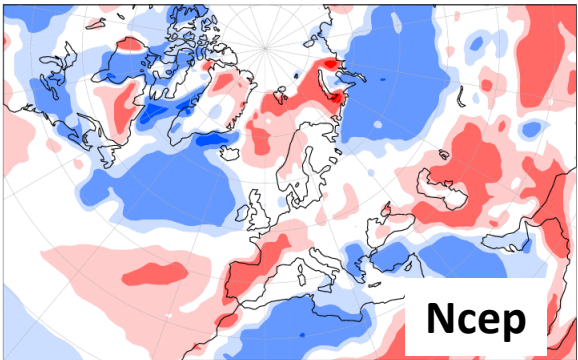
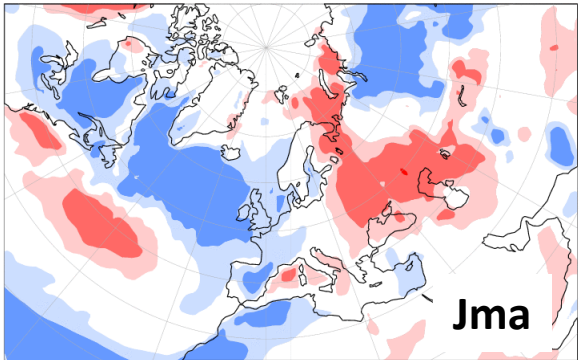
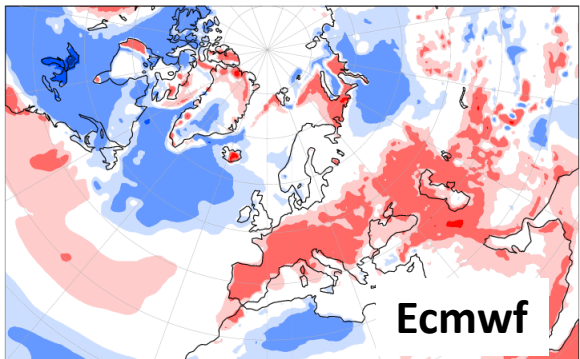
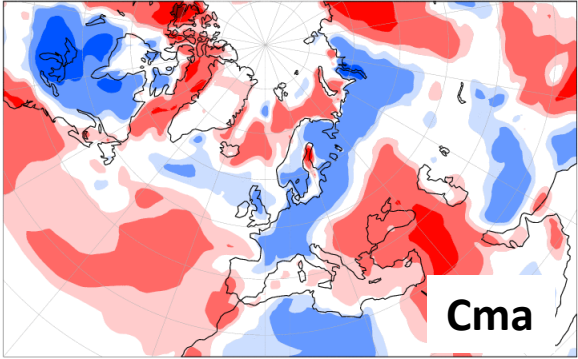
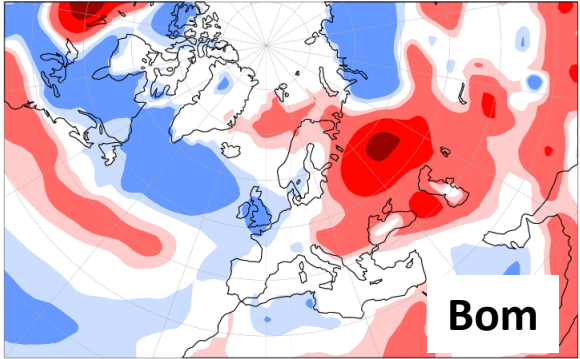
Climate 15 June 2015 18 June 2015 22 June 2015 25 June 2015
(15-21d) (12-18d) (8-14d) (5-11d)

Cumulative Distribution Function
Computed for the 2mtemp anomalies
Over 50-38N 10E-15W.

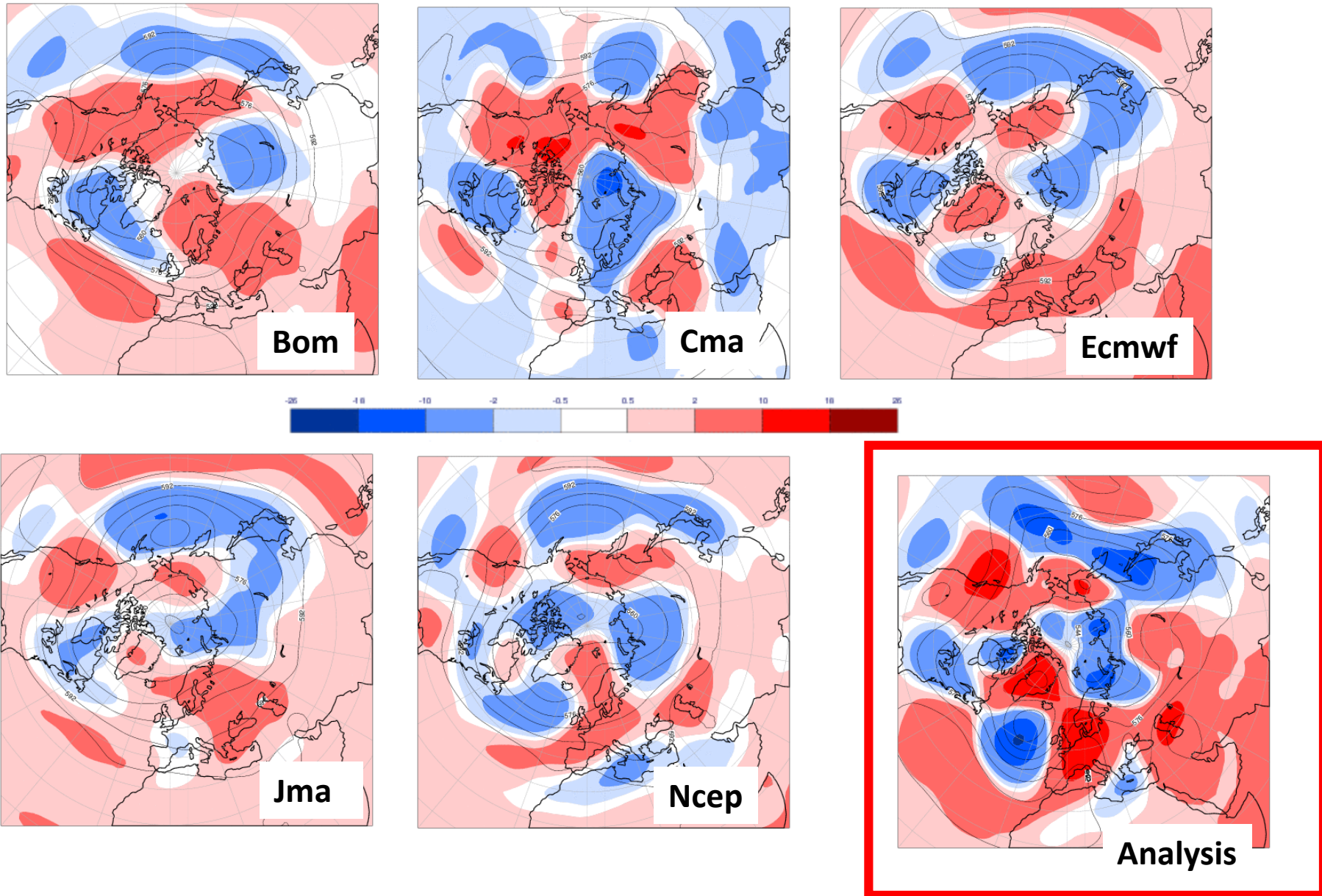
Different colour represent CDF for
different forecasts.



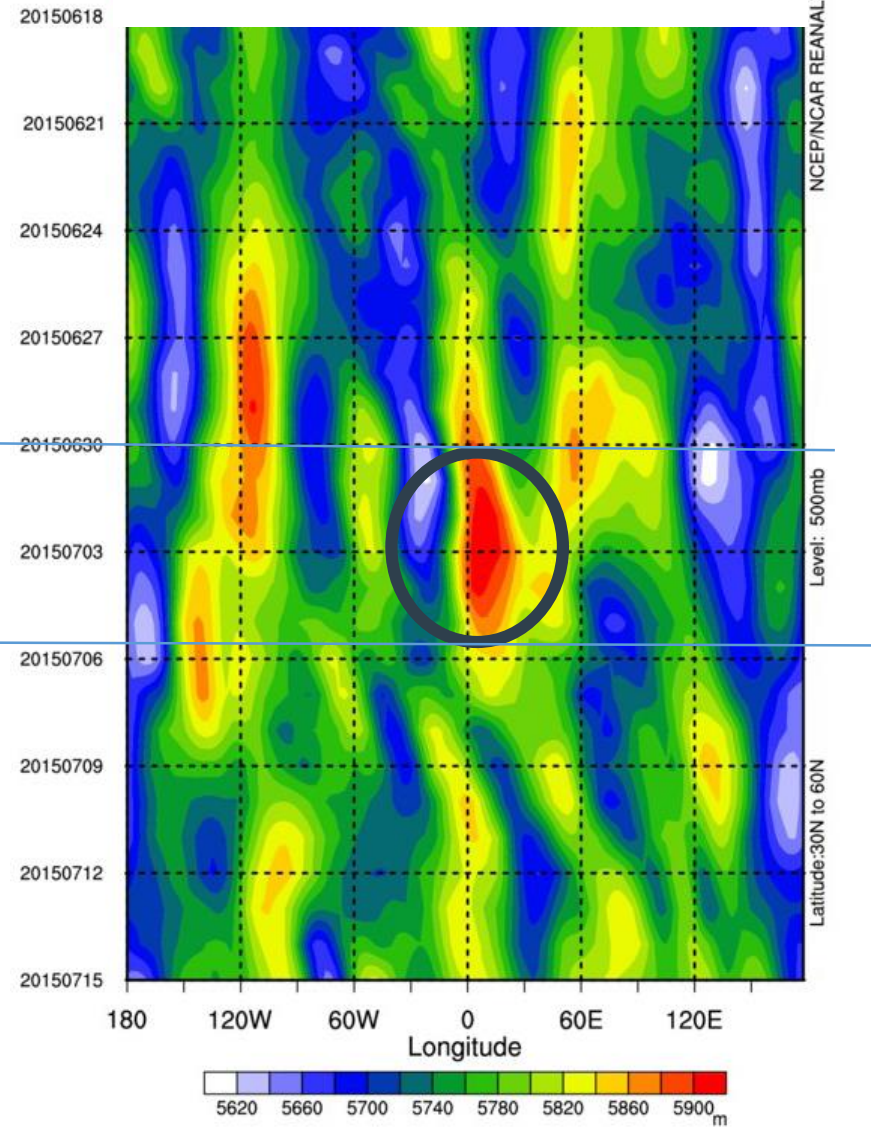
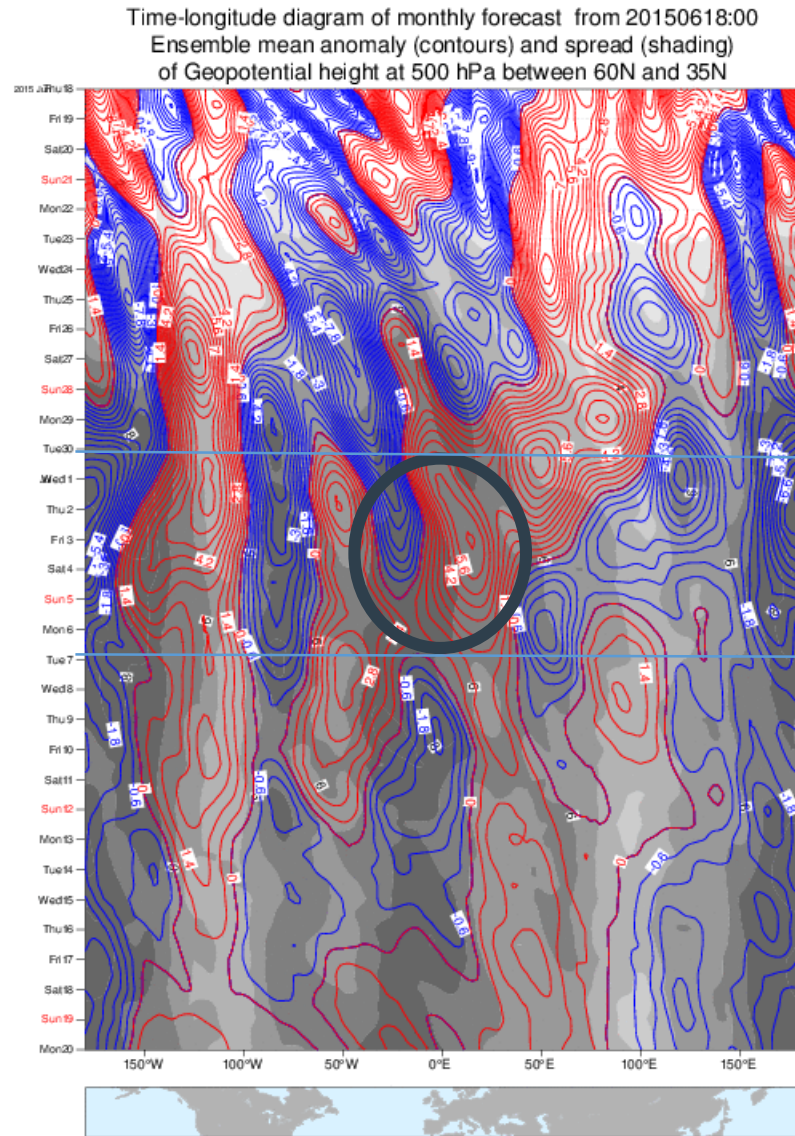
S2S 2mt anomalies: days 12-18 - verifying 29-06 to 05-07 2015



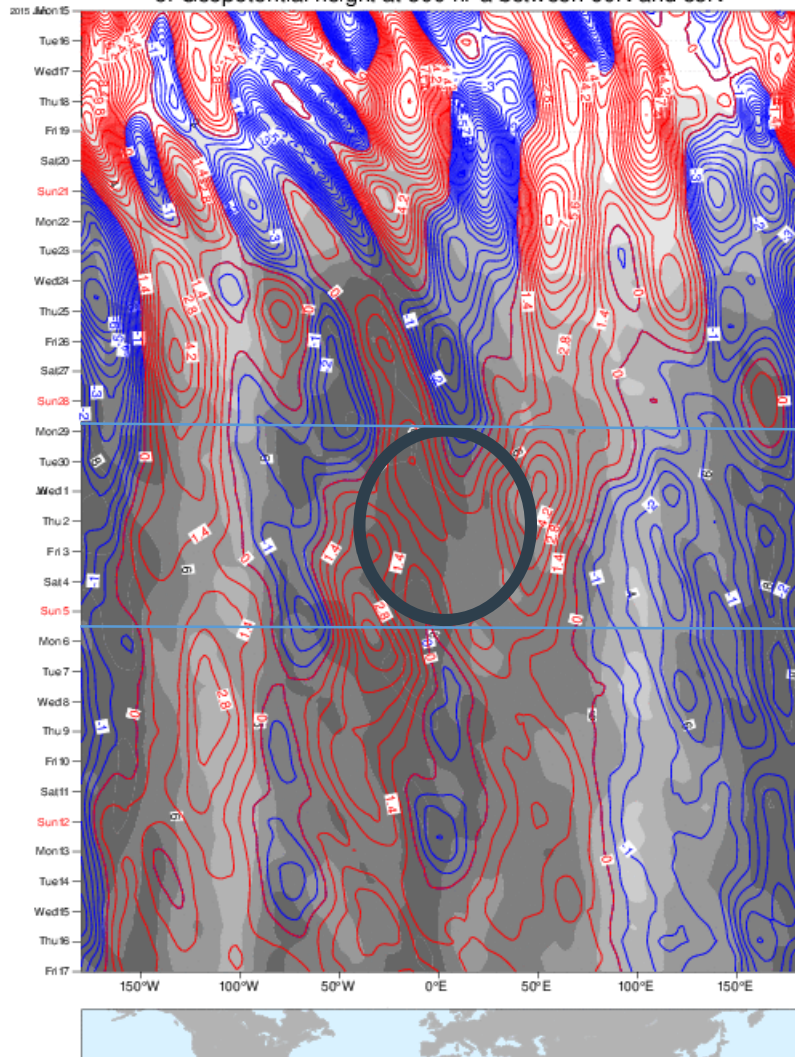
S2S Z500 anomalies: days 12-18 - verifying 29-06 to 05-07 2015



Geopotential height



Time-longitude diagram of monthly forecast from 20150615:00
 Ensemble mean anomaly (contours) and spread (shading)
 of Geopotential height at 500 hPa between 60N and 35N



Geopotential height

