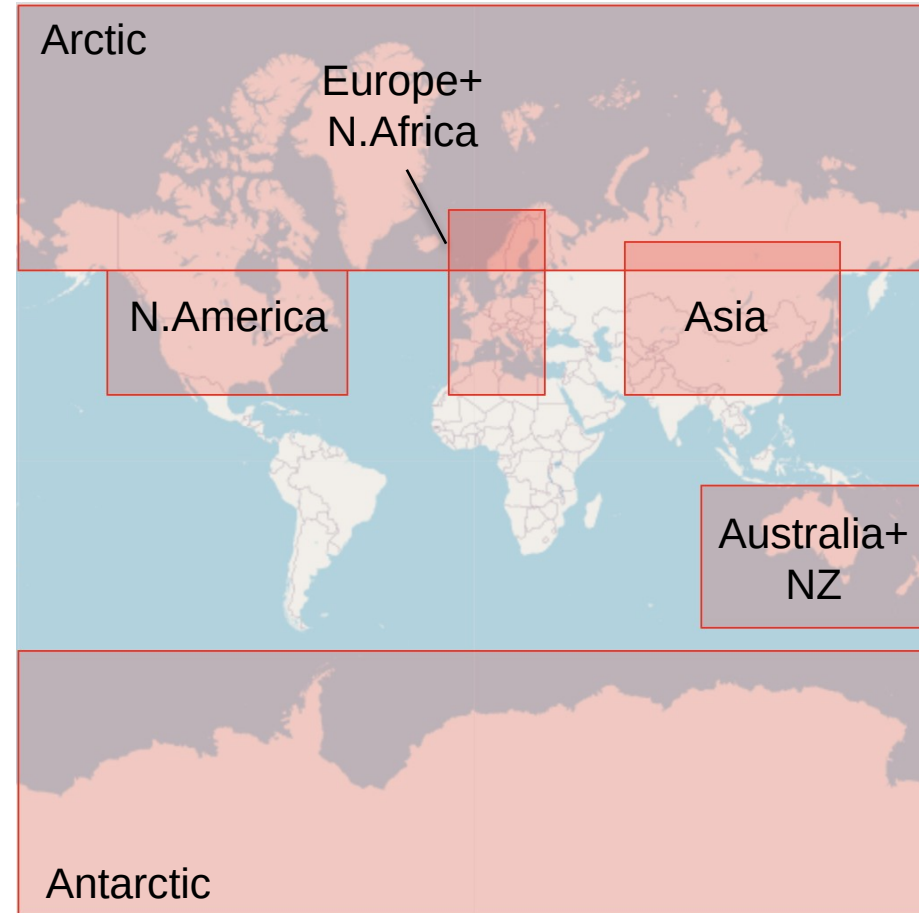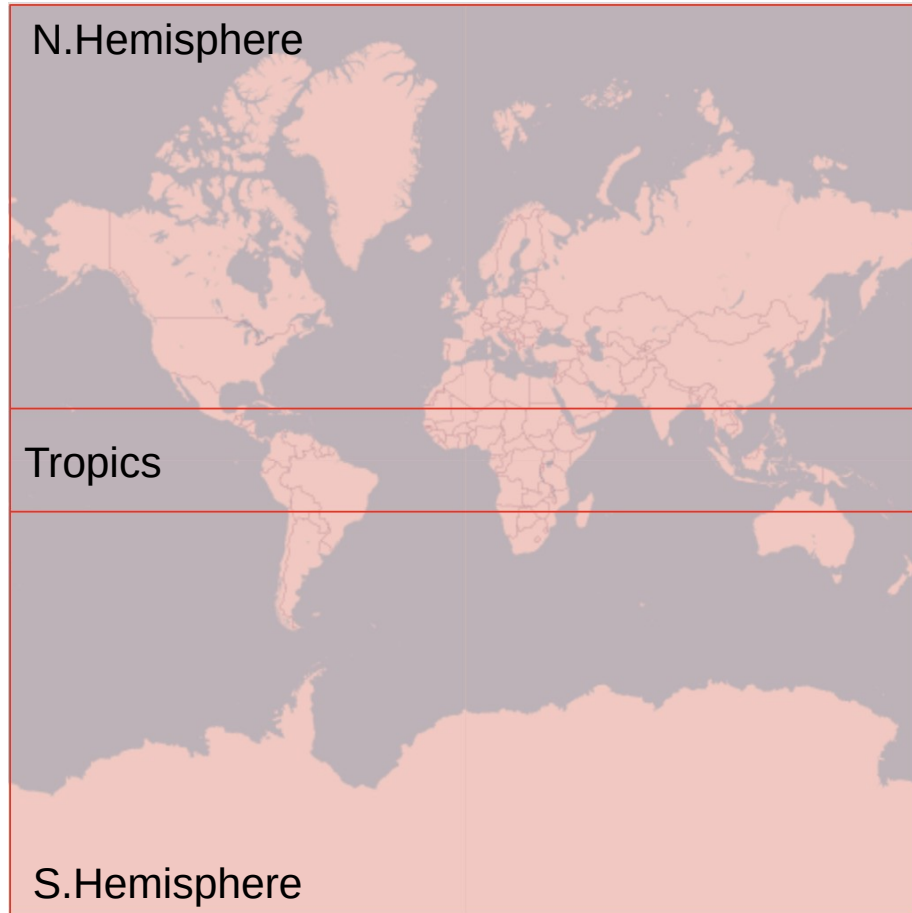# Domain definitions for WMO score exchange
Thomas Haiden

ECMWF

Scores for South America computed at ECMWF

Upper-air variables
Geopotential
Temperature
U-wind
V-wind
Wind speed
Relative humidity
Ozone

Levels (hPa)
1000, 925, 850, 700, 500, 300,
250, 200, 100, 50, 30, 10

Surface variables
MSL pressure
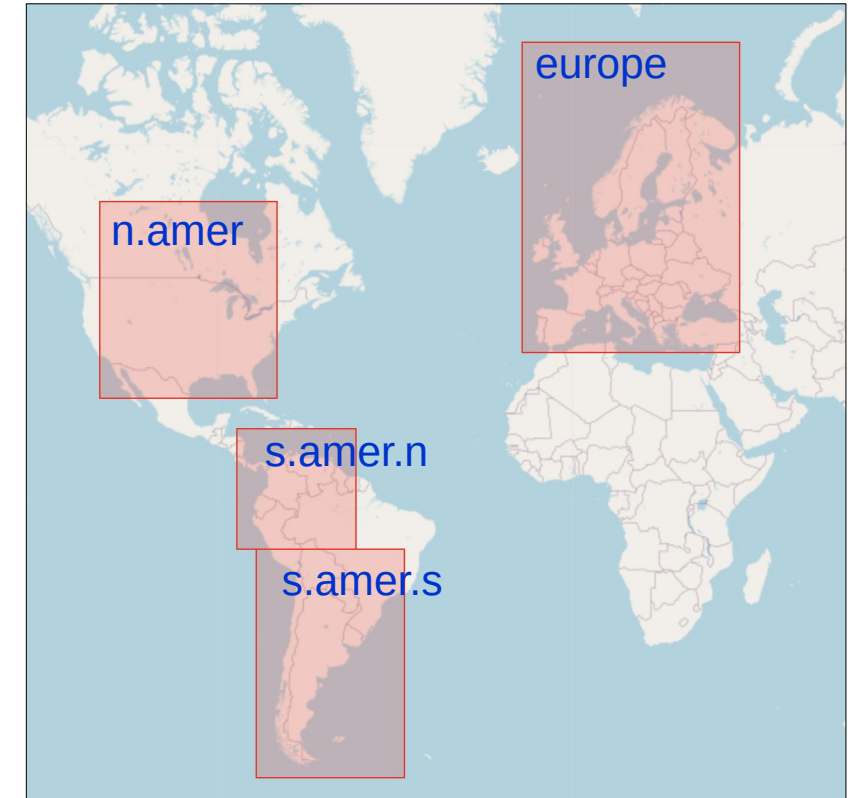10m wind speed
2m temperature

Scores
Root mean square error
Error standard deviation
Mean error (bias)
Anomaly correlation
Activity of the forecast
Activity of the analysis

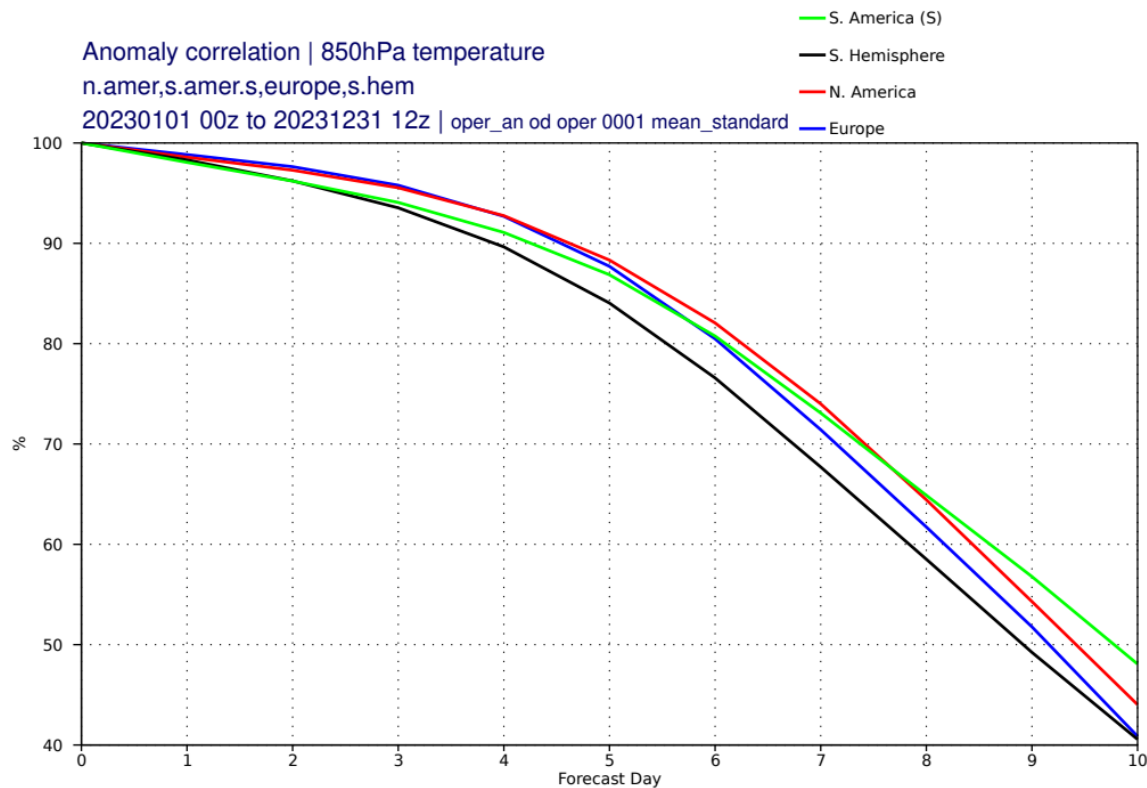**Verification against**
Analysis

Verification times
00 and 12 UTC
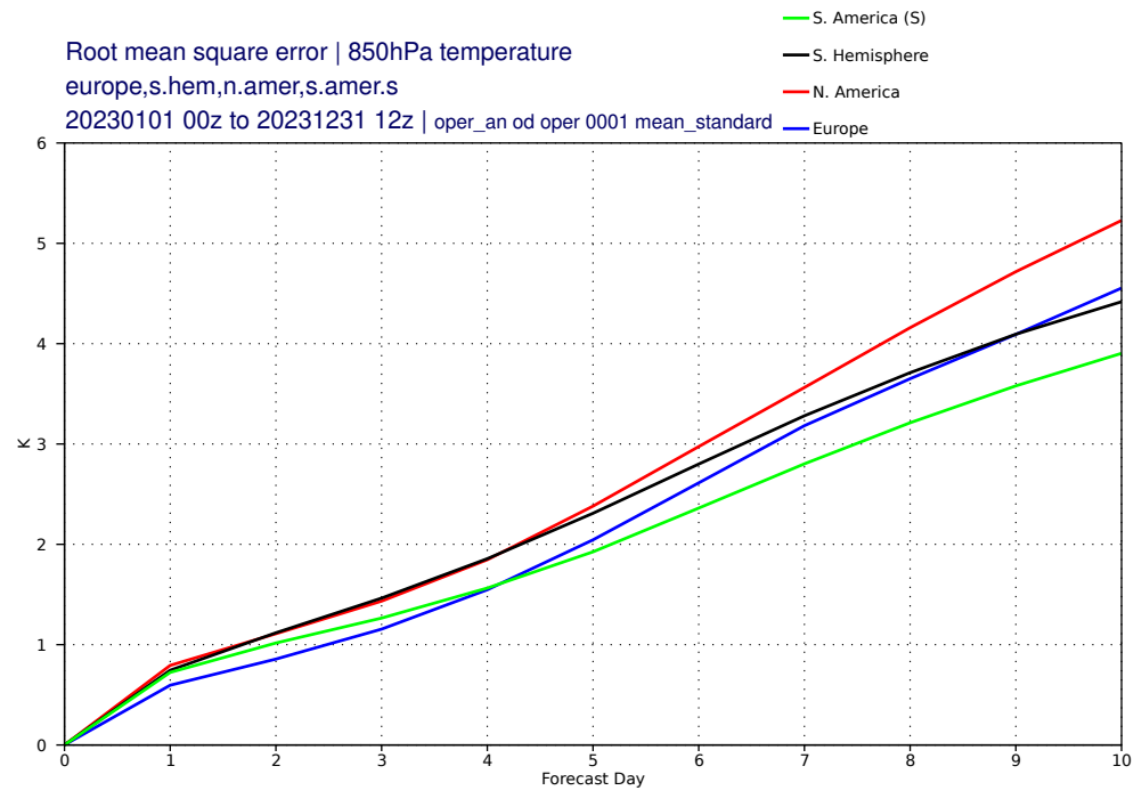
Forecasts
HRES
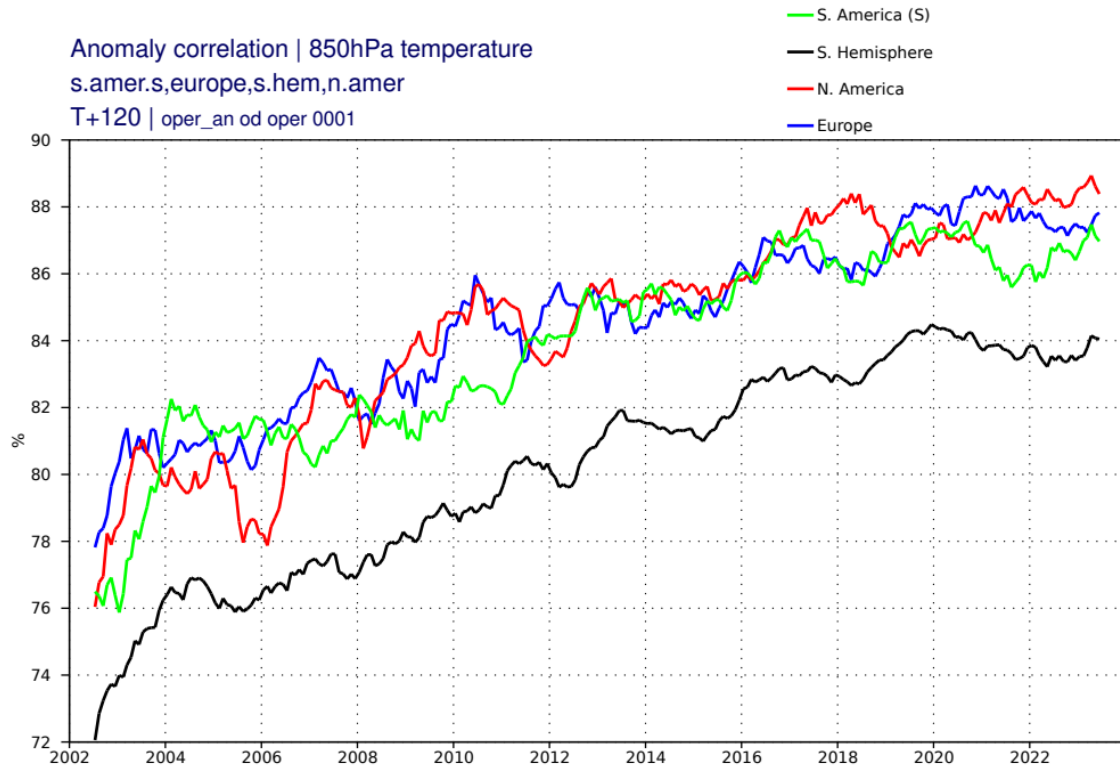ENS control
ENS mean

T850 scores in 2023
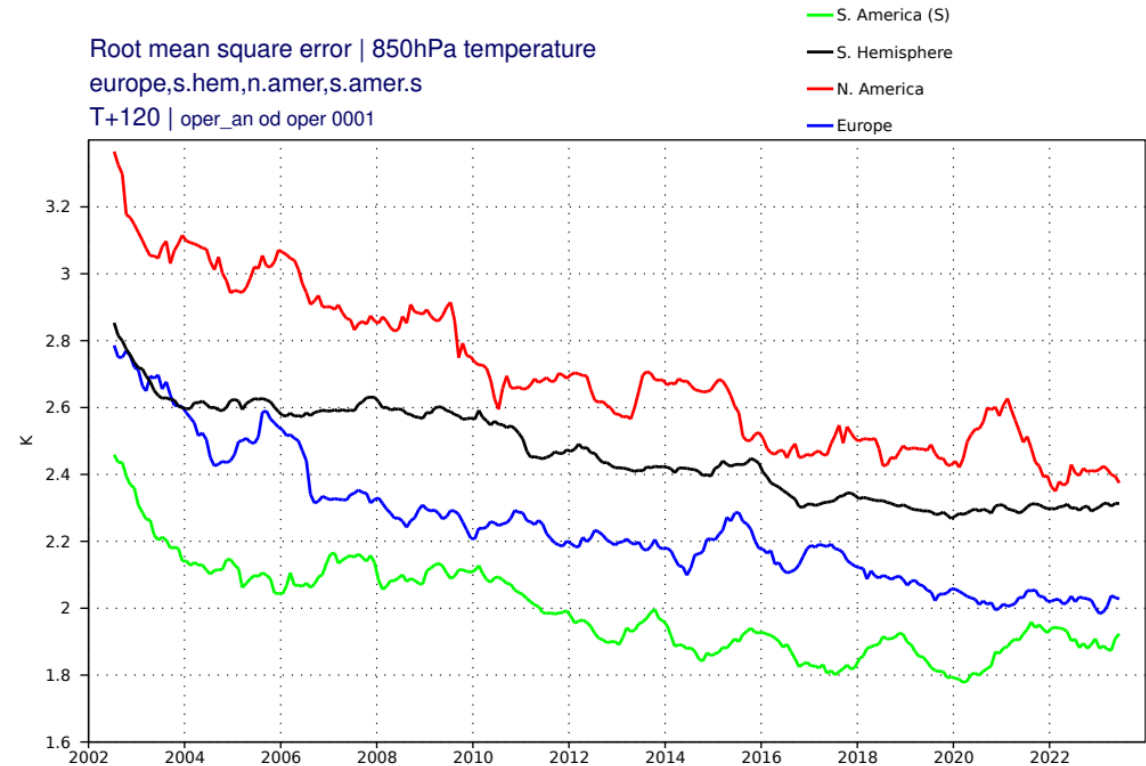
Anomaly correlation

RMSE

T850 long-term evolution of scores (D+5)

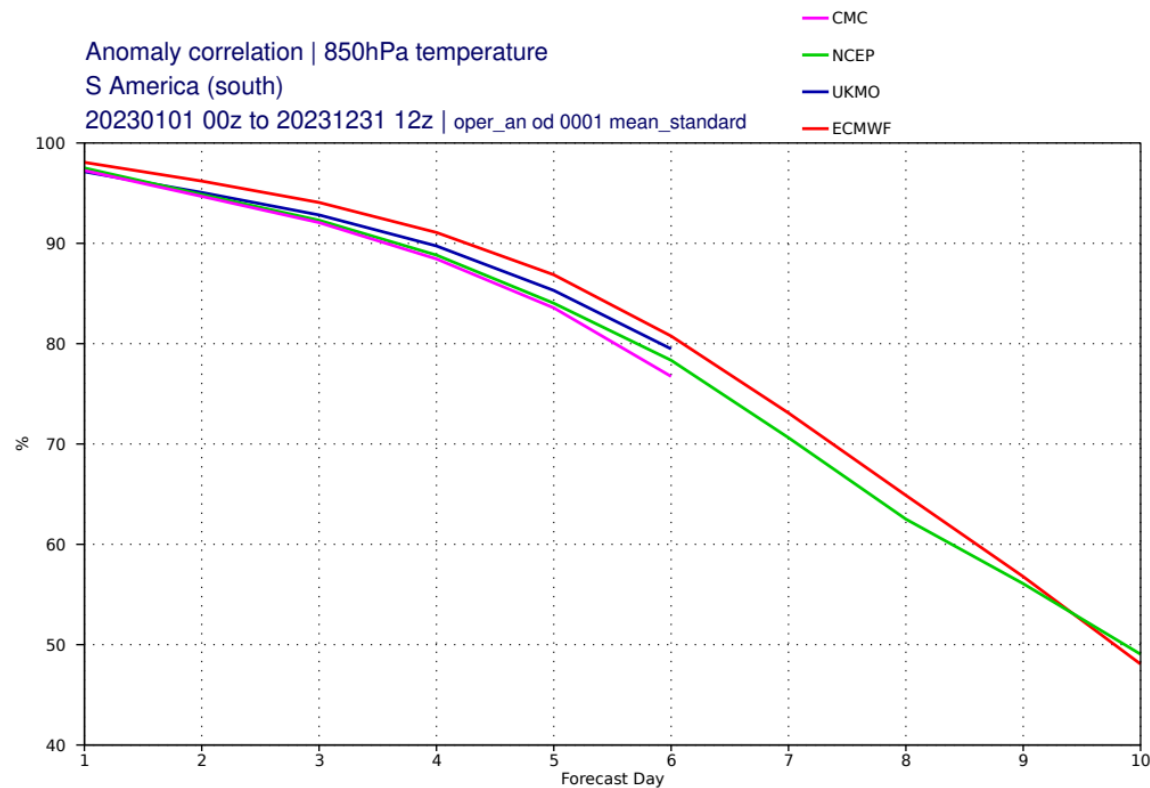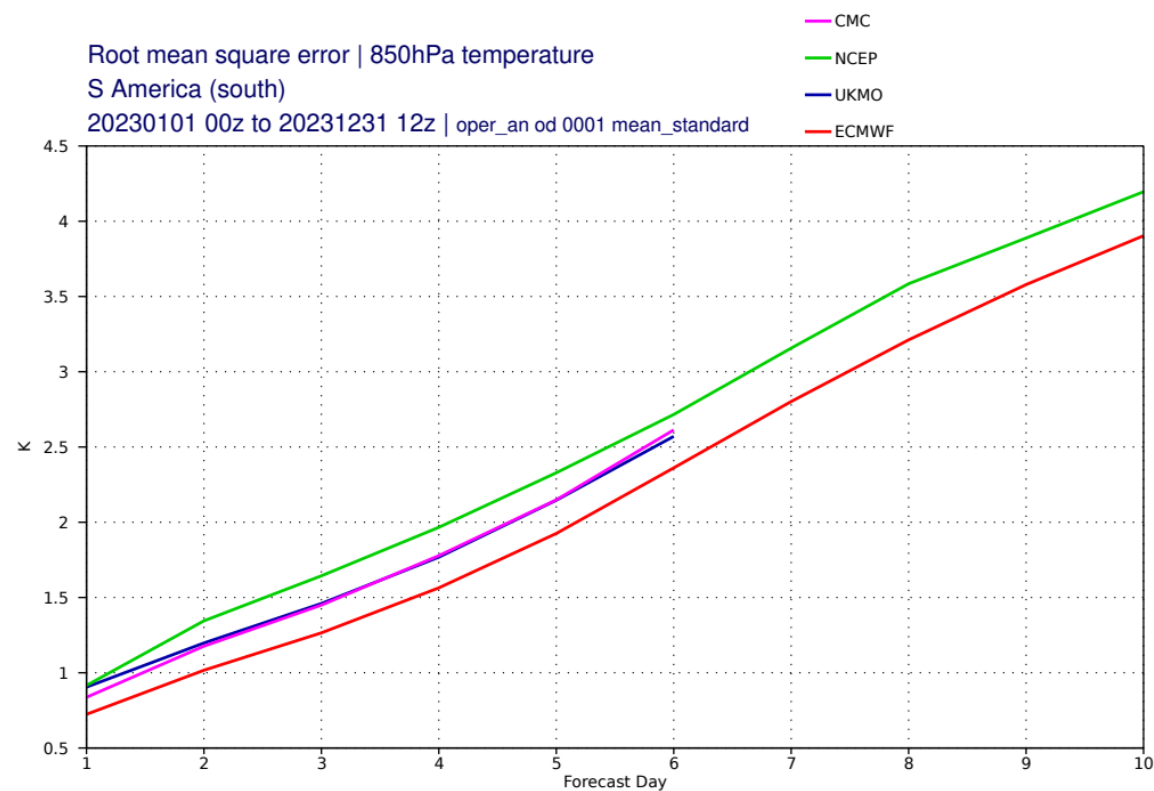Verification against own analysis

Anomaly correlation

RMSE

ECMWF

T850 comparison between centres
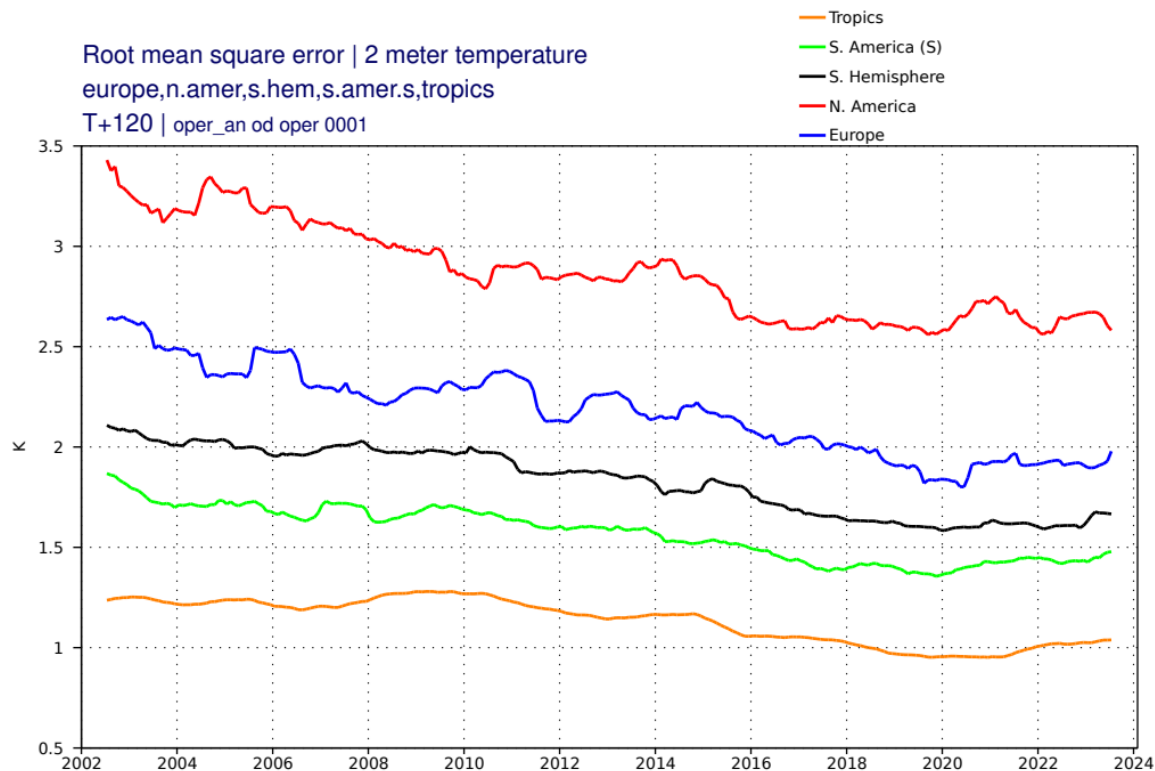
Verification against own analysis

Anomaly correlation | 850hPa temperature
S America (south)
20230101 00z to 20231231 12z | oper_an od 0001 mean_standard

— CMC
— NCEP
— UKMO
— ECMWF

Root mean square error | 850hPa temperature
S America (south)
20230101 00z to 20231231 12z | oper_an od 0001 mean_standard

— CMC
— NCEP
— UKMO
— ECMWF

Anomaly correlation

RMSE

2m temperature and 10m wind speed

2m temperature
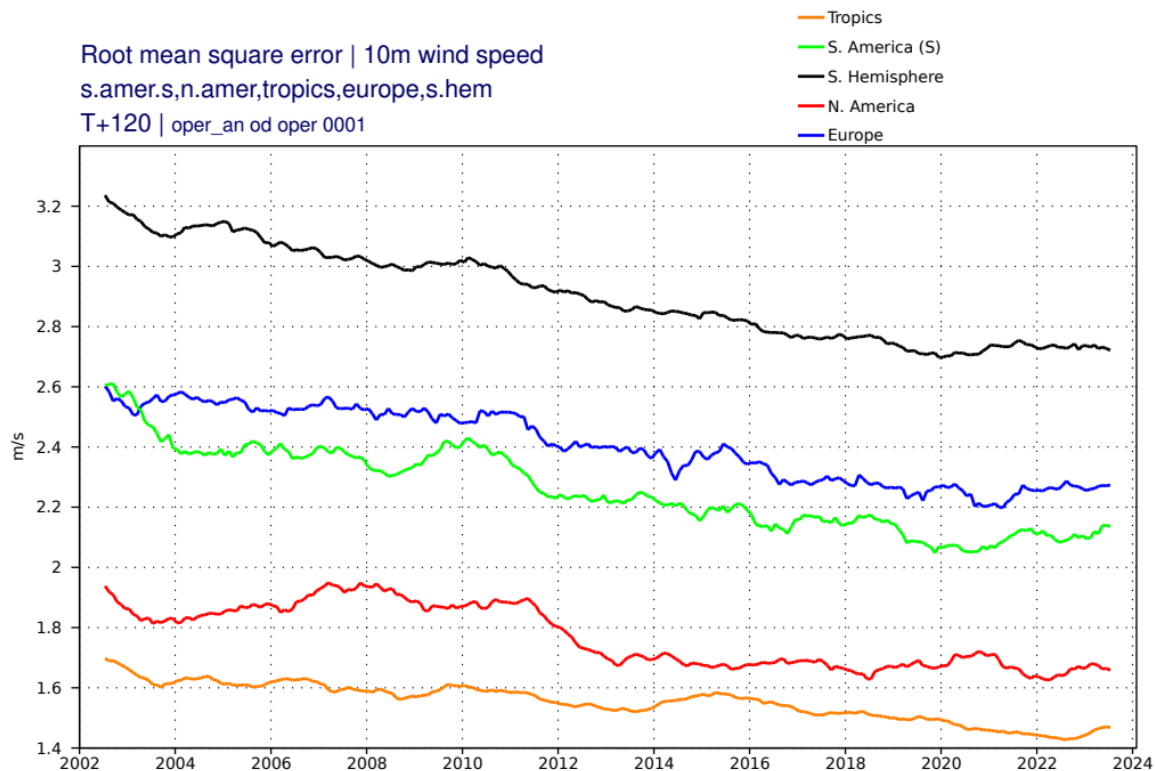
10m wind speed

Radiosonde availability (WDQMS)

https://wdqms.wmo.int
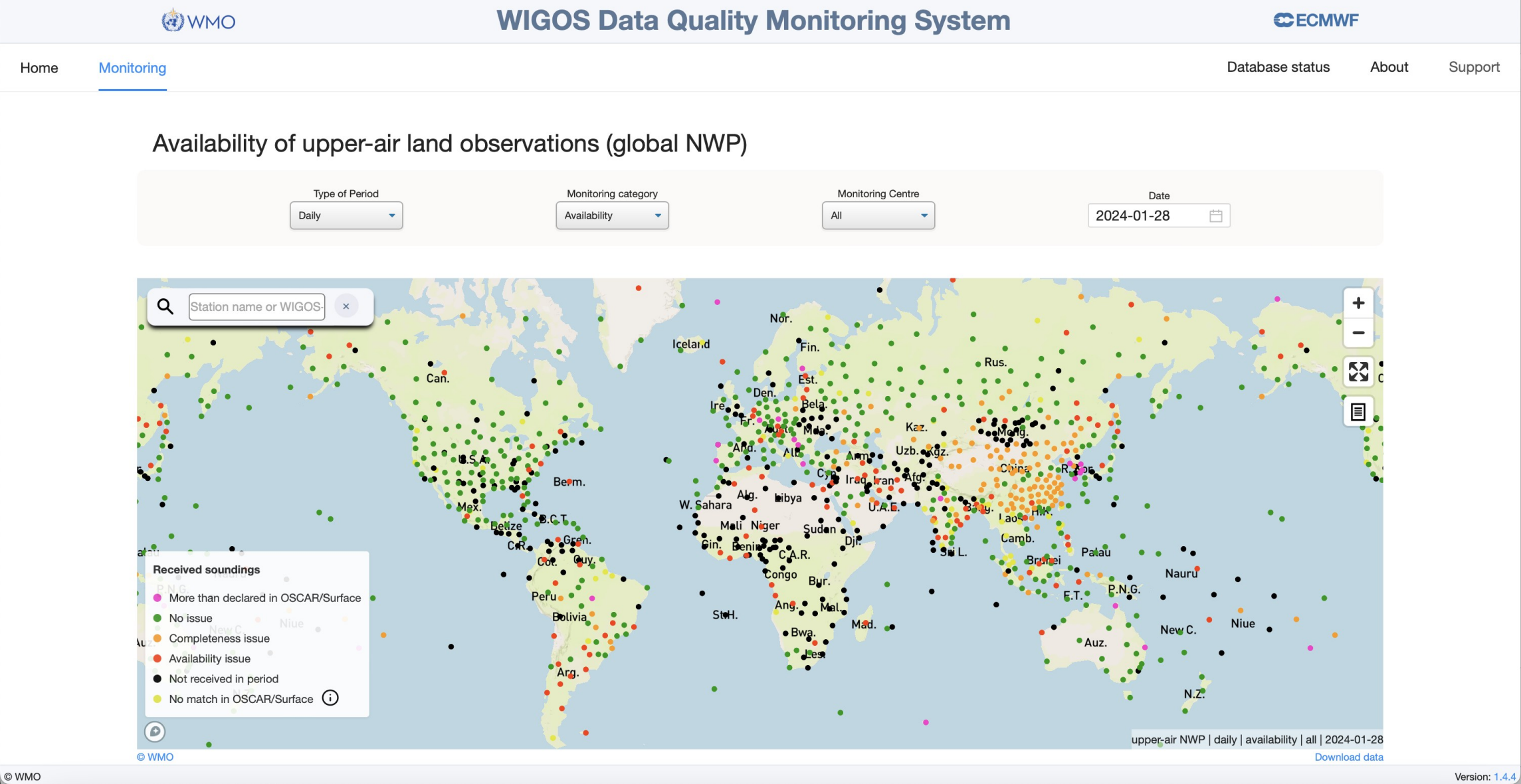
Surface station availability (WDQMS)

https://wdqms.wmo.int