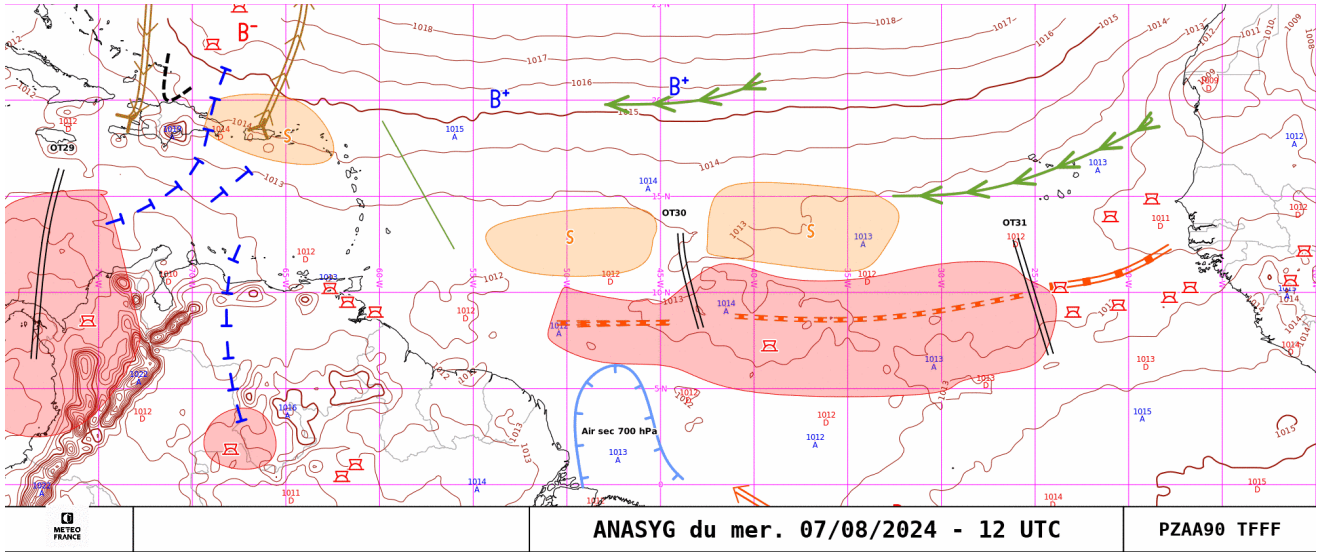
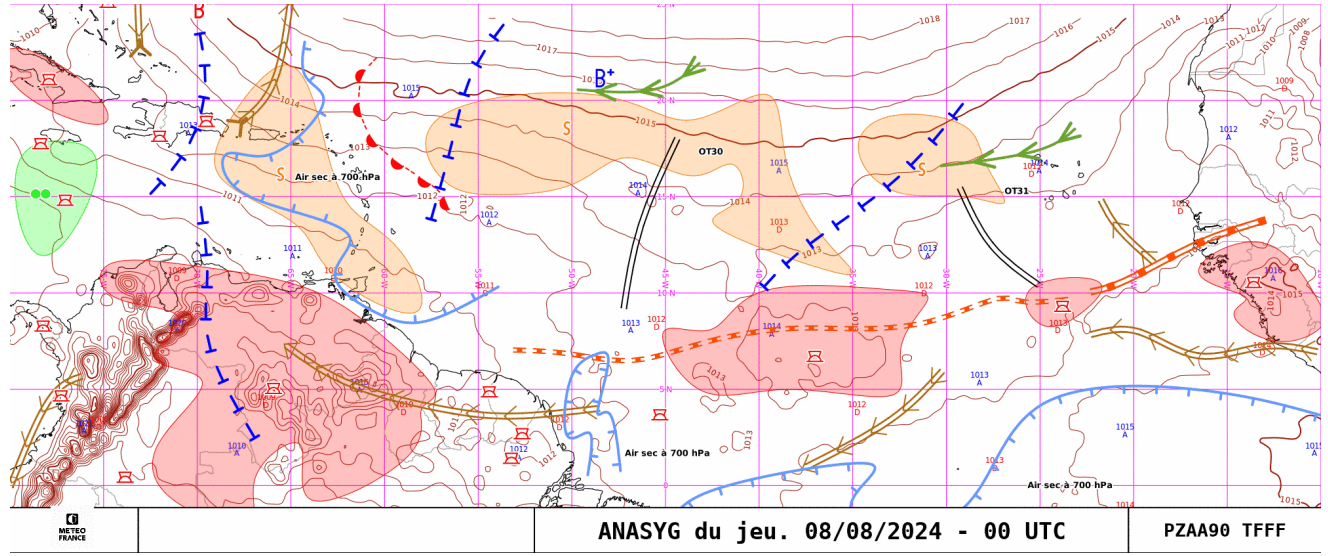
DAILY SUMMARY MAESTRO

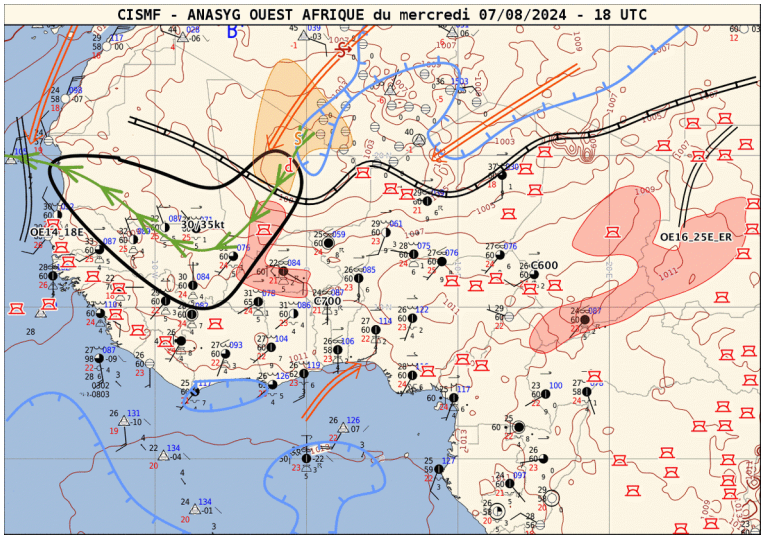
Four parts :
- 1. Evaluation J-1
- 2. Short term forecast J-J+36h
- 3. Week forecast J-J+7
- 4. Subseasonal forecast

Anasyg J-1 12 UTC et J 00 UTC





Anasyg J-1 18 UTC et J 06 UTC



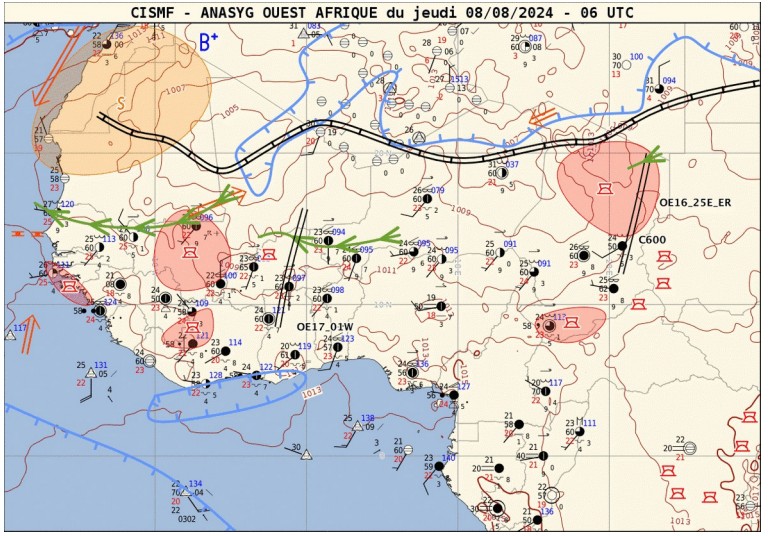
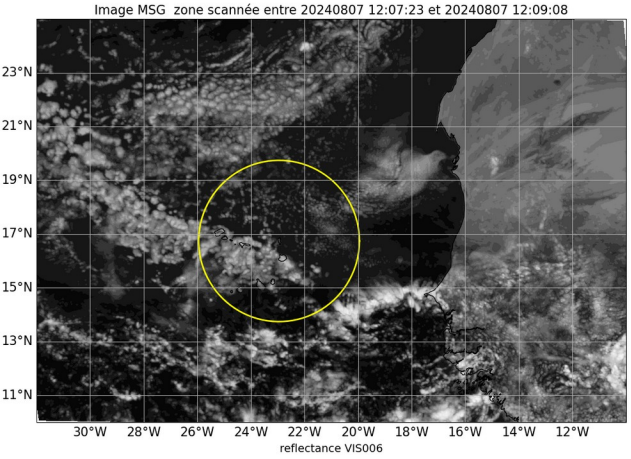
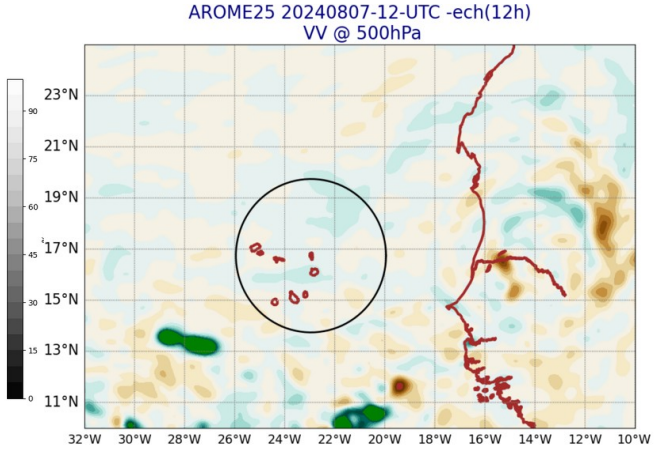
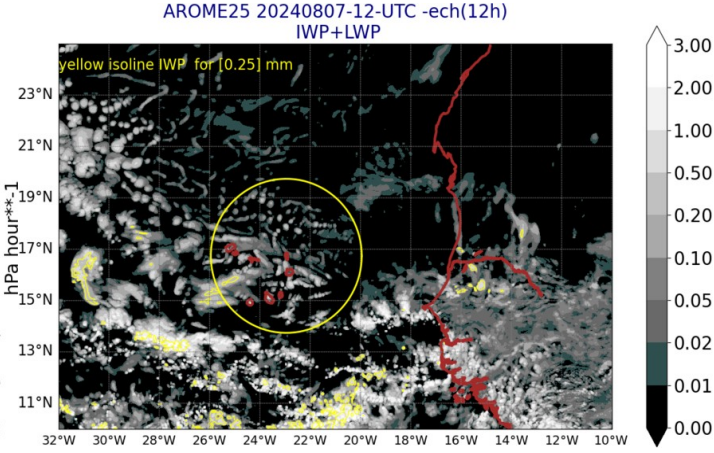


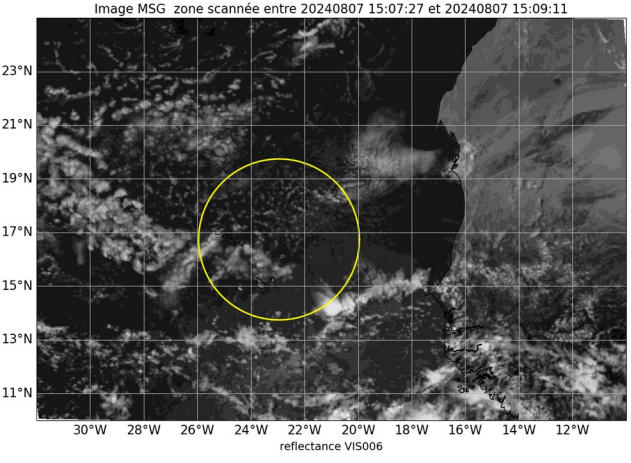
Image MSG Visible J-1 12 and 15 UTC

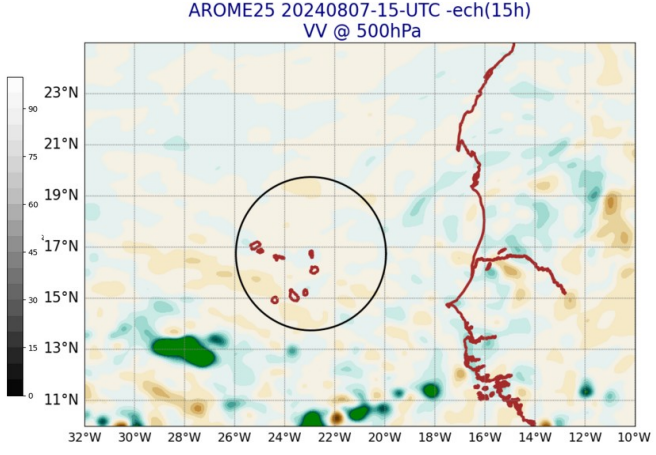
Arome J-1 12 and 15 UTC

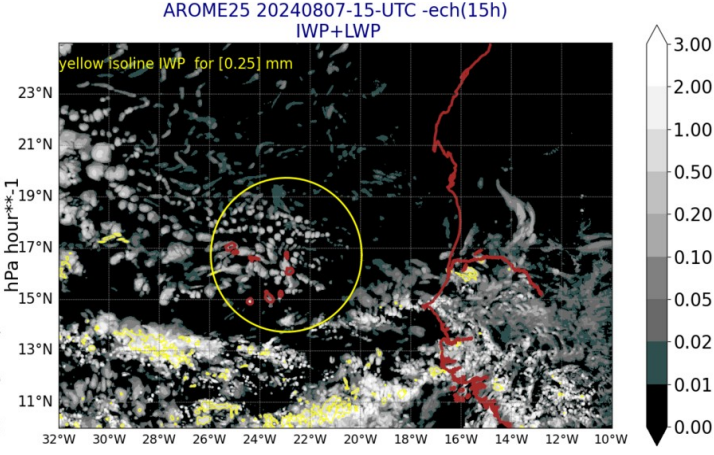




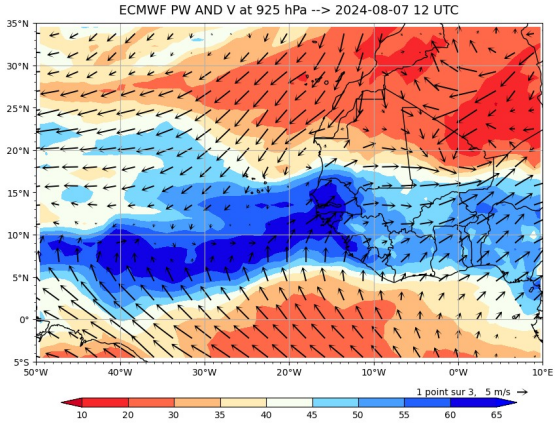


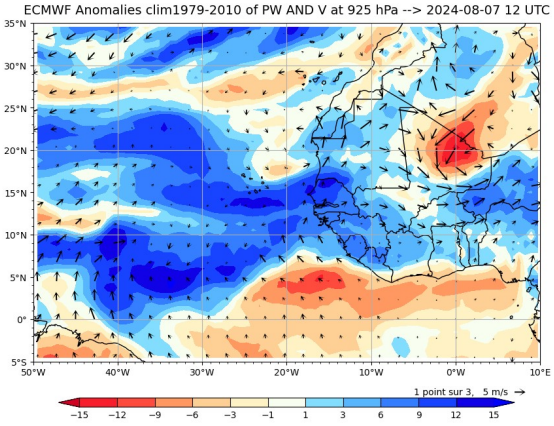


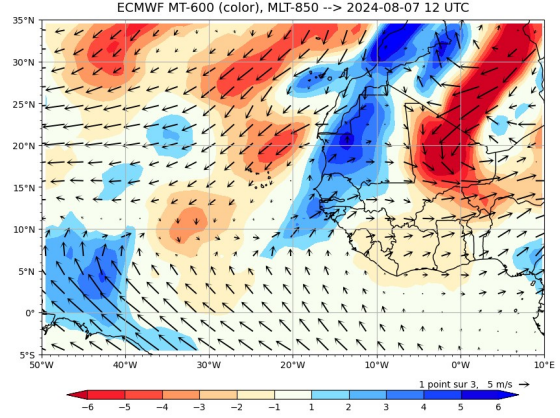




Precipitable Water – PW anomaly
J-1 12UTC Merid. Transport

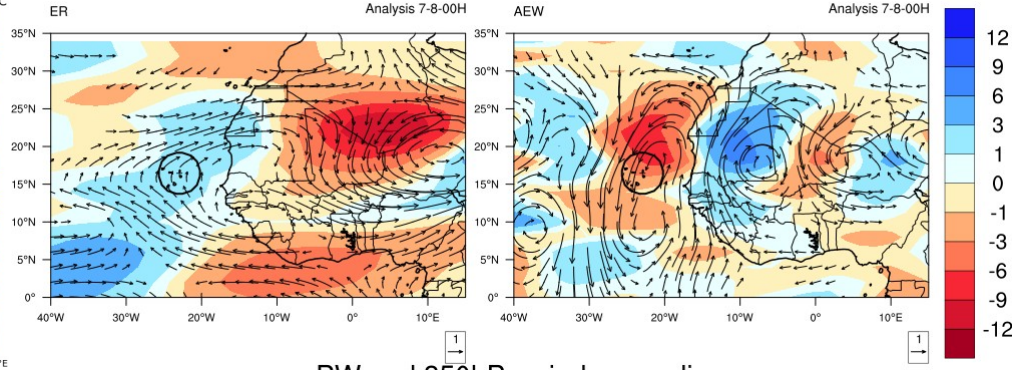




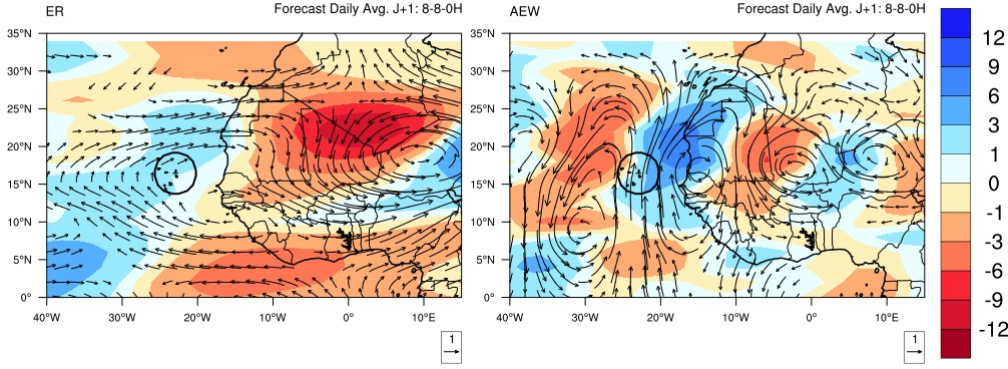


Waves J-1 00 UTC and J 00UTC
Equatorial Rossby - African Easterly Waves

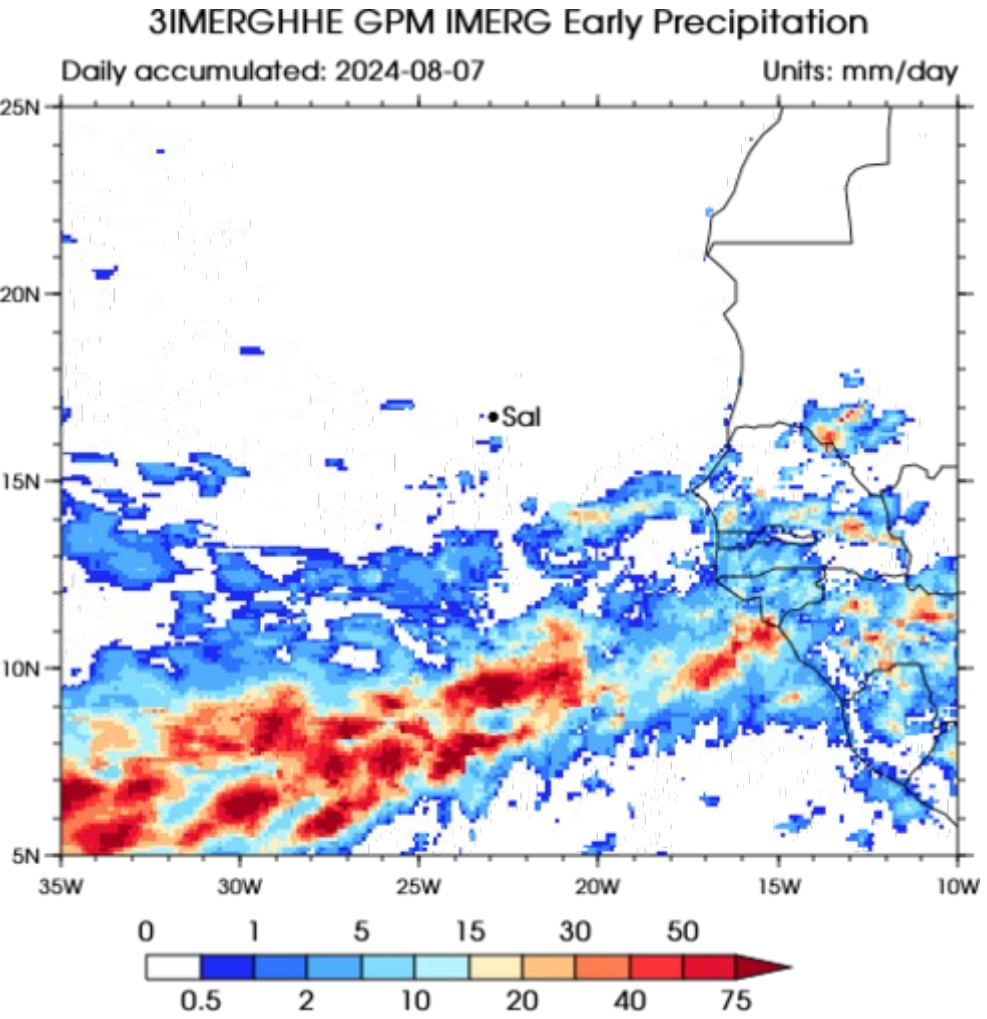
PW and 850hPa wind anomalies

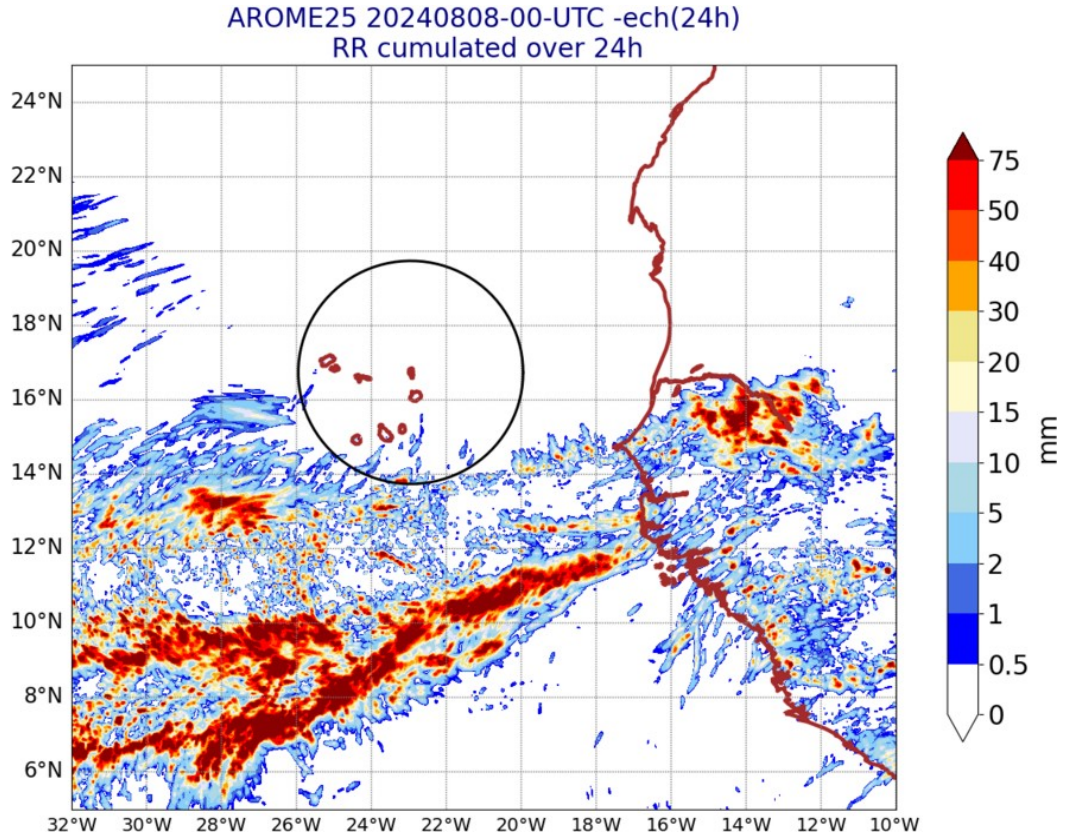


PW and 850hPa wind anomalies



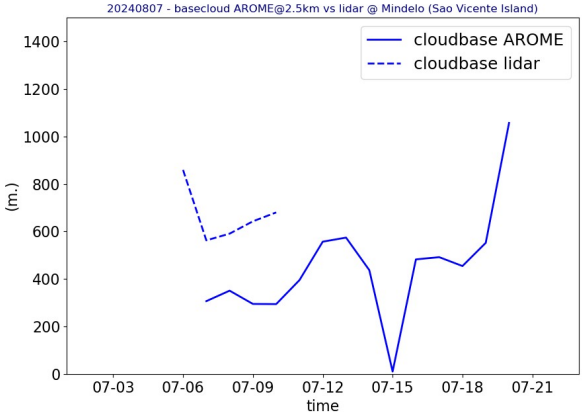
Precipitation IMERG and AROME J-1

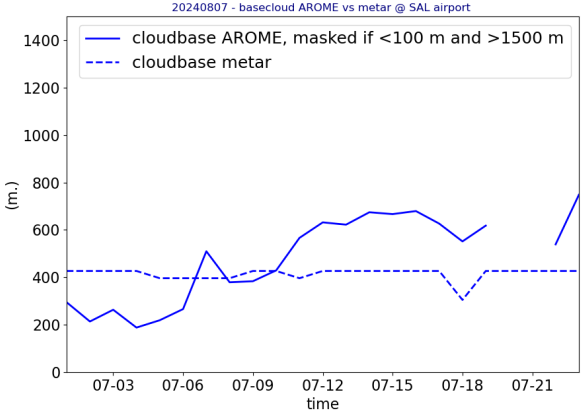




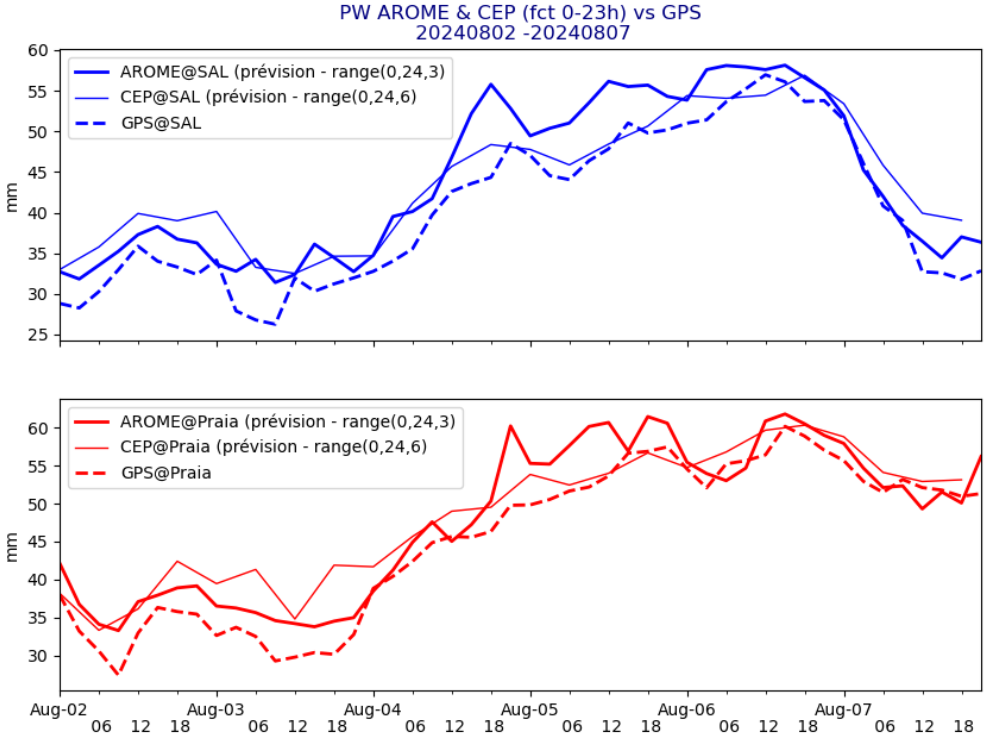
OBSERVATIONS J-1

Lidar@ mindelo
metar@sal



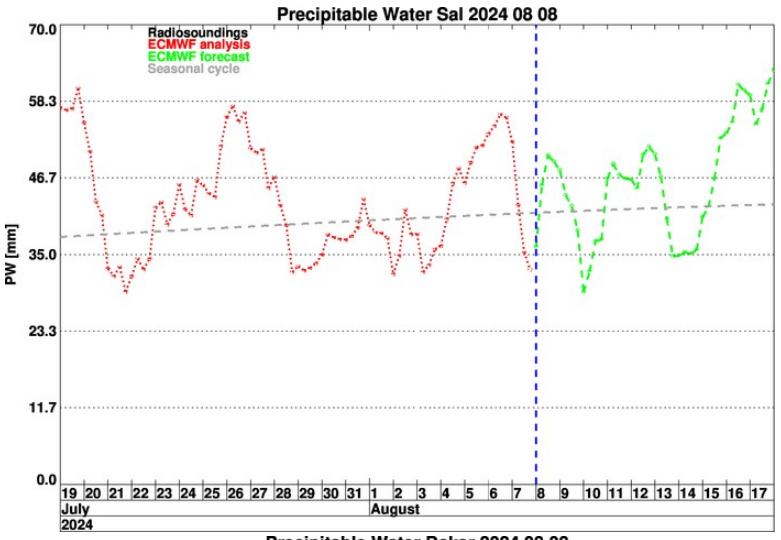


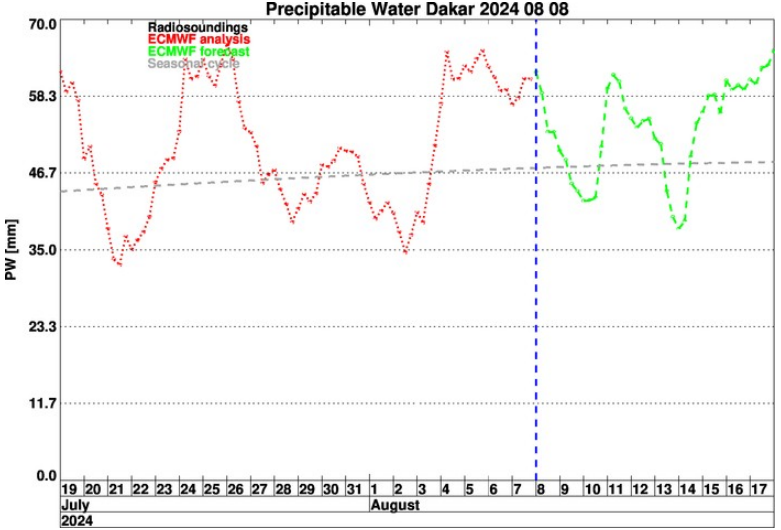
GPS @ Sal
GPS @ Praia

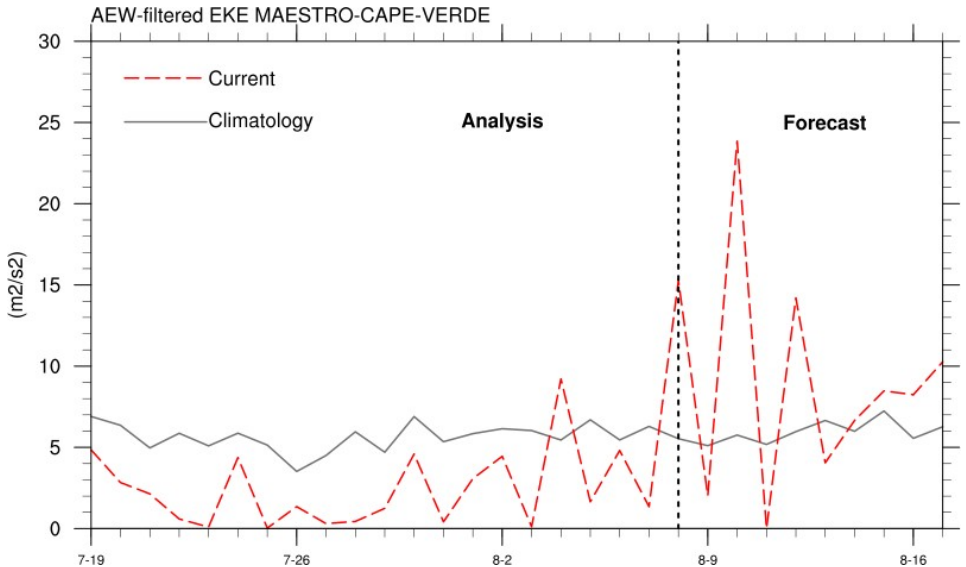


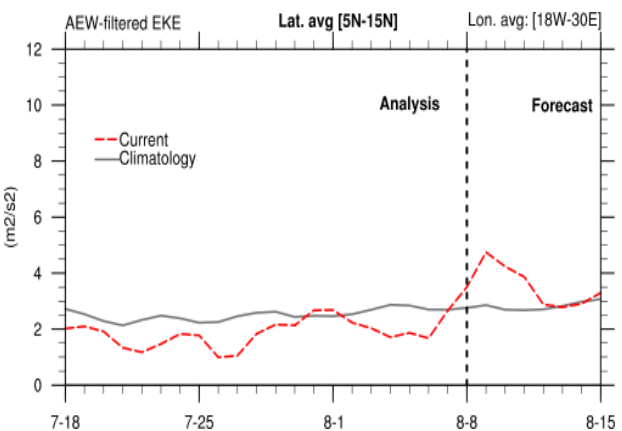
Short term forecast J - J+36h

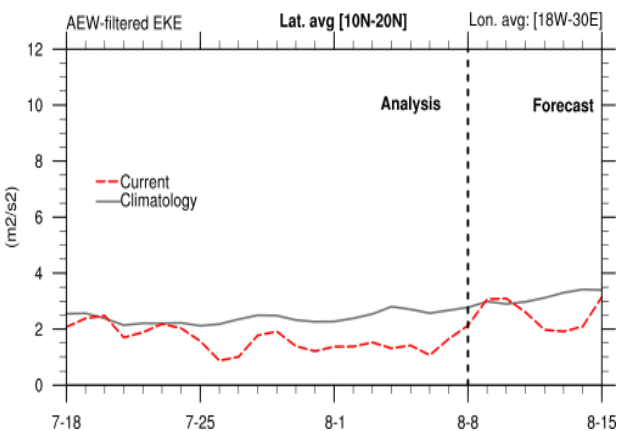
Temporal evolution PW Sal et Dakar + EKE



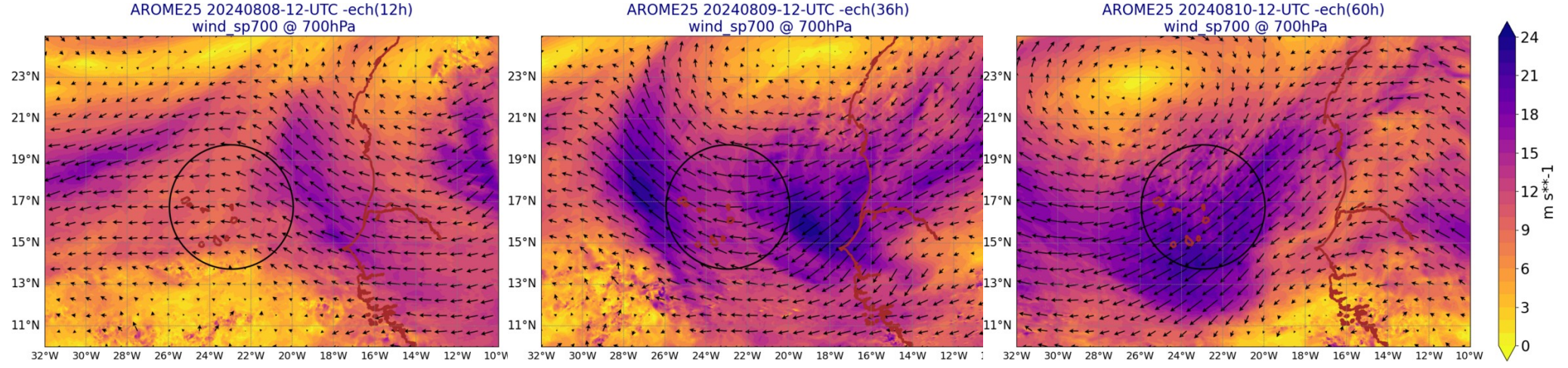


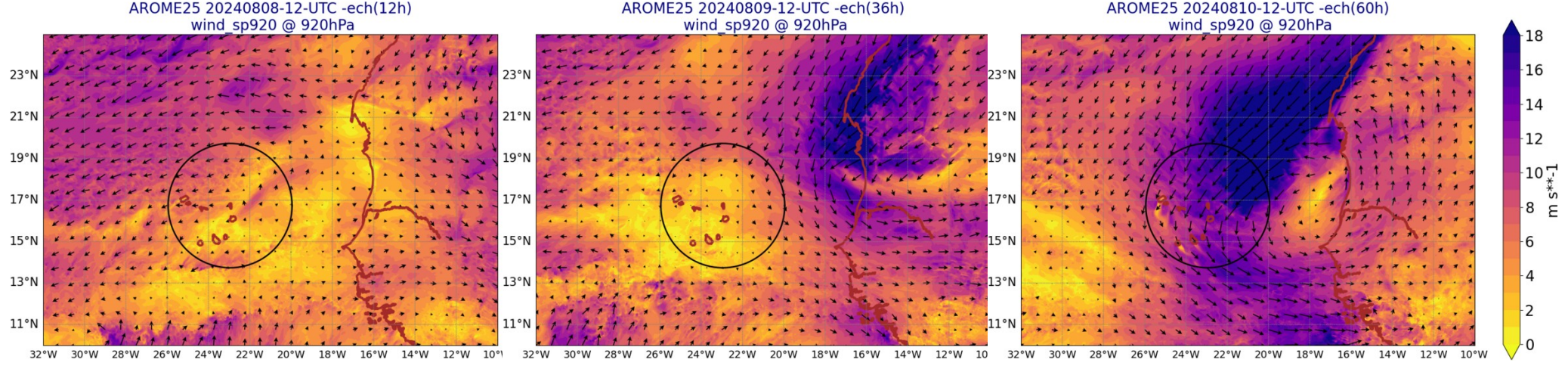




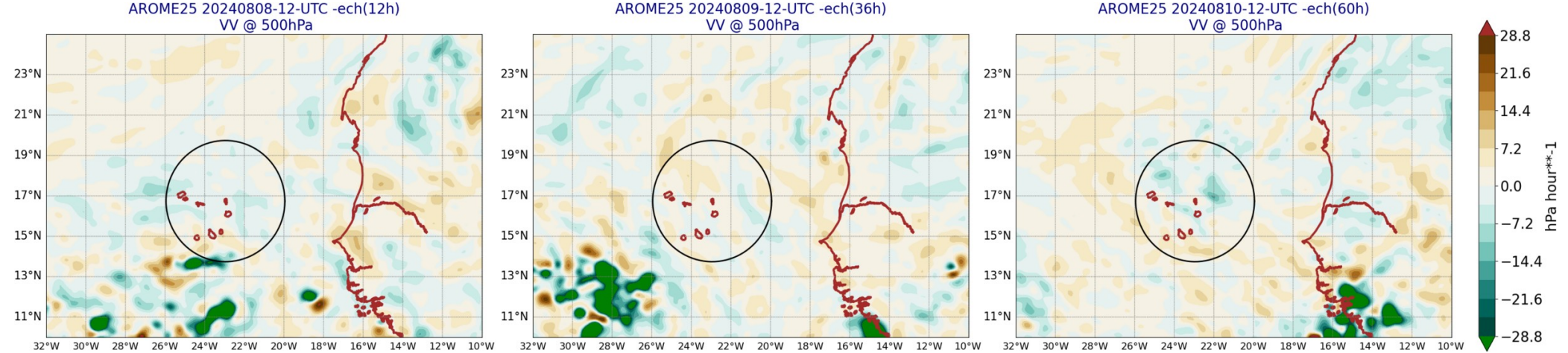


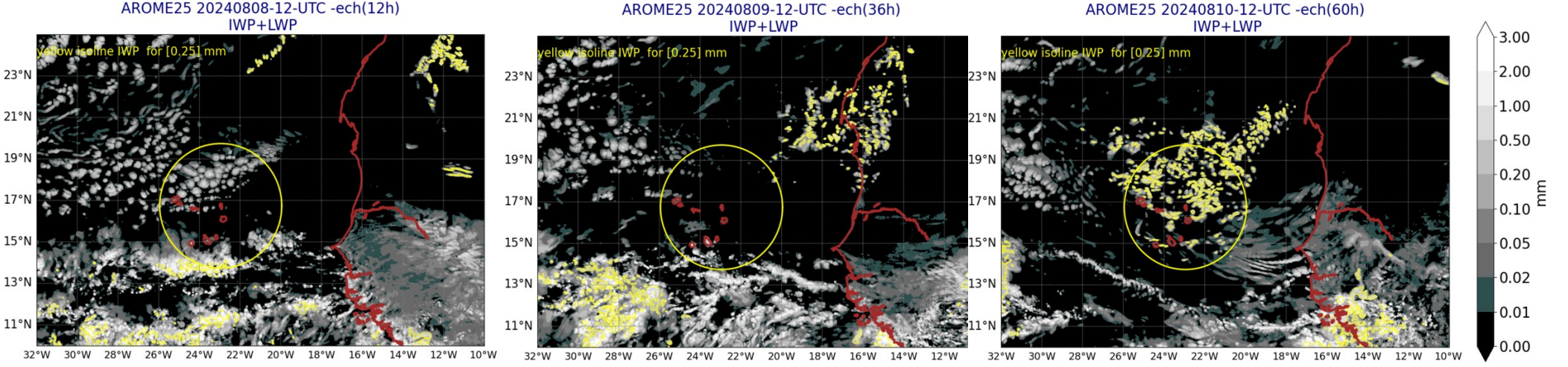
AROME Wind @ 700 hPa
AROME Wind @ 920 hPa





AROME VV @ 500hPa
AROME LWP+IWP

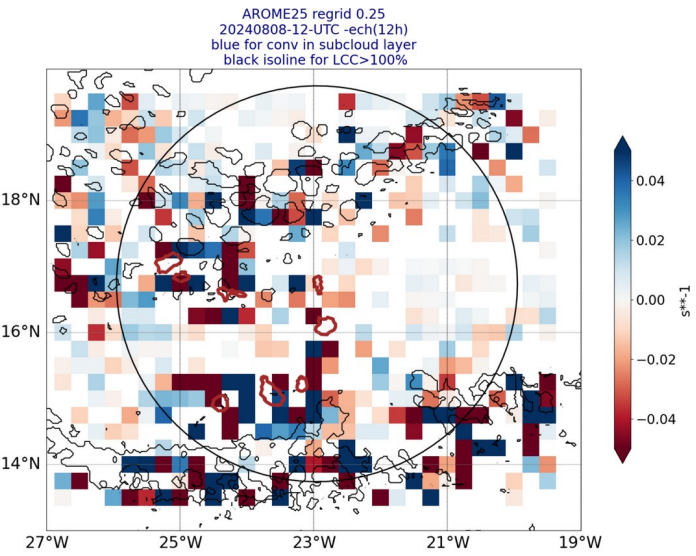




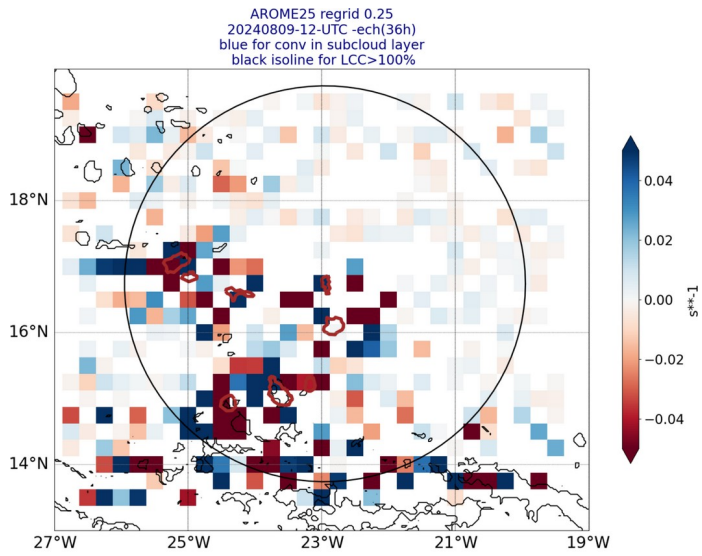
Smoc

-blue for conv in subcloud layer-

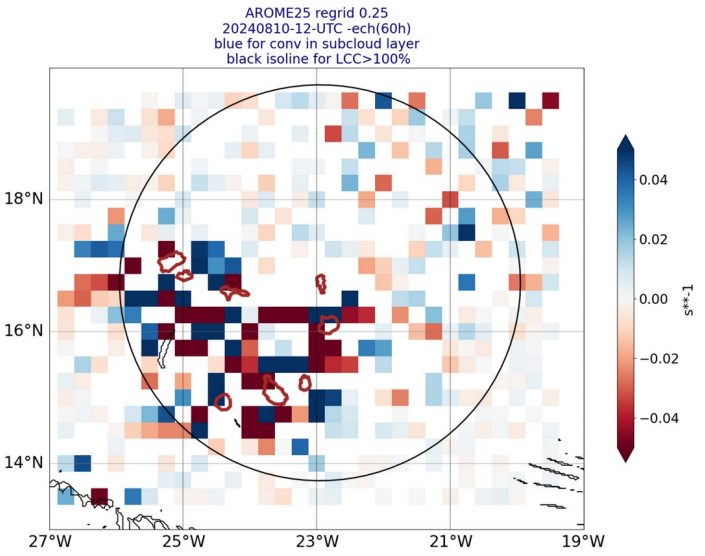
dark isoline for low cloud cover



white box where subcloud and cloud layer have same sign of div



white box where subcloud and cloud layer have same sign of div

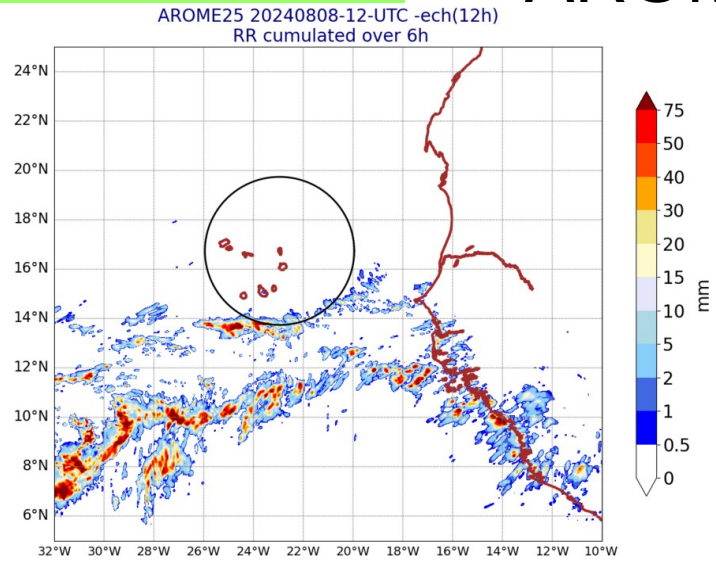


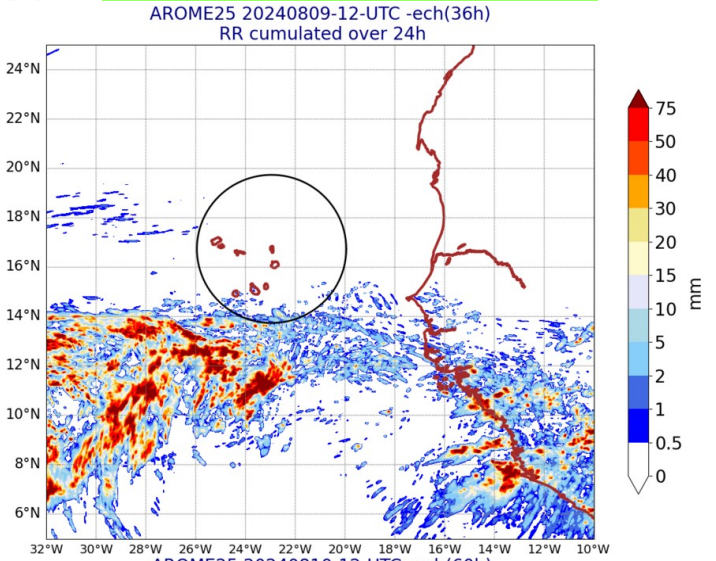
white box where subcloud and cloud layer have same sign of div

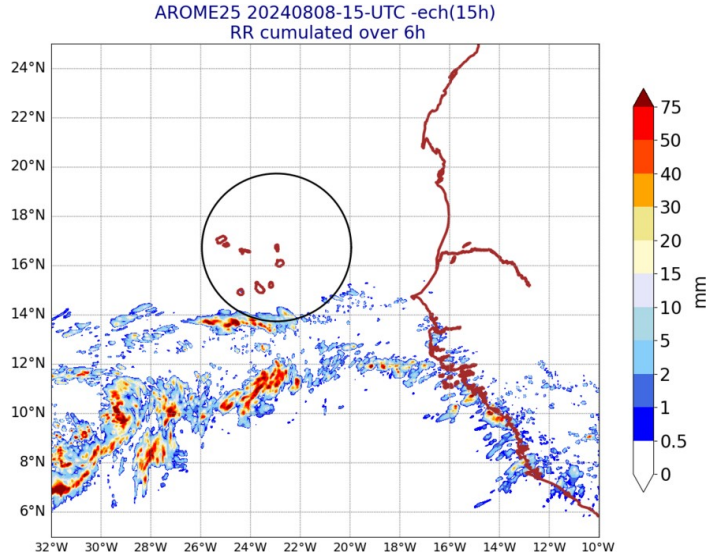
AROME precipitation

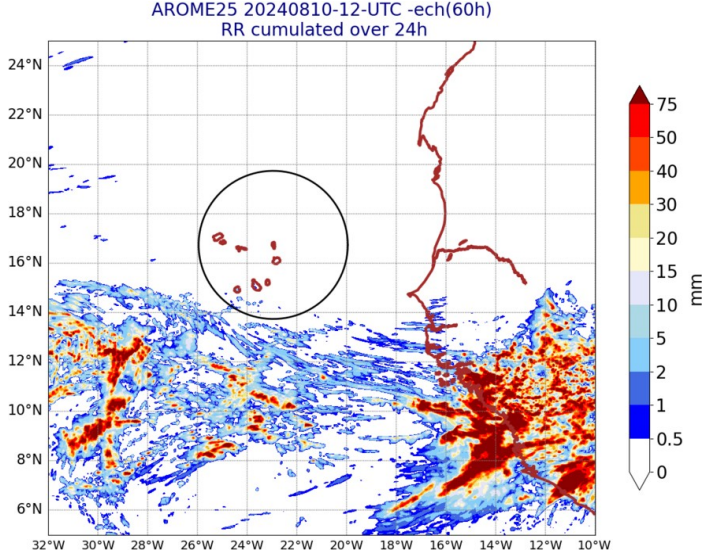
over 6h ech 12h and 15h

over 24h ech 36h and 60h

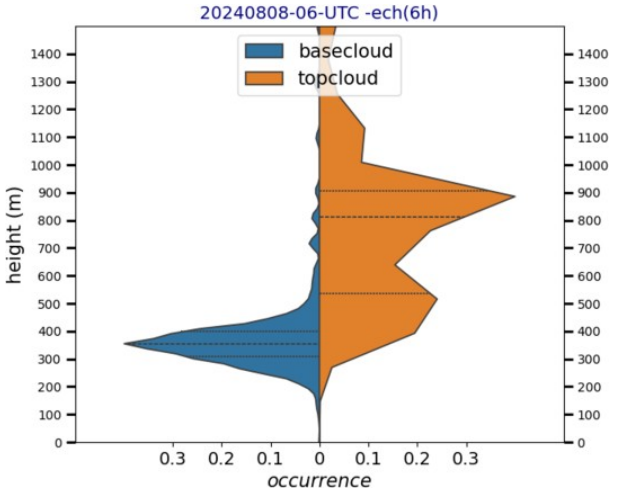


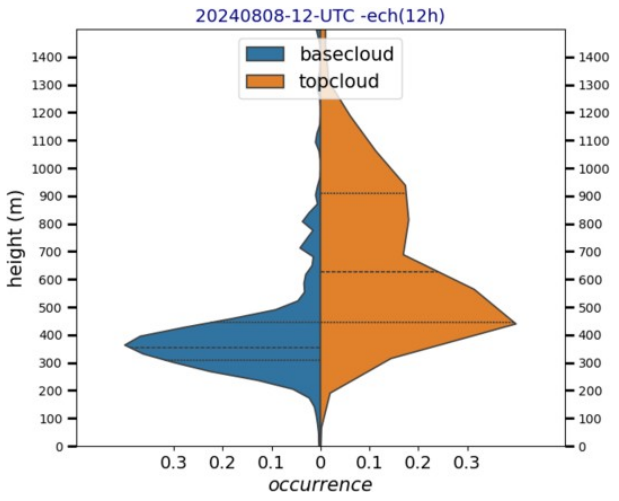


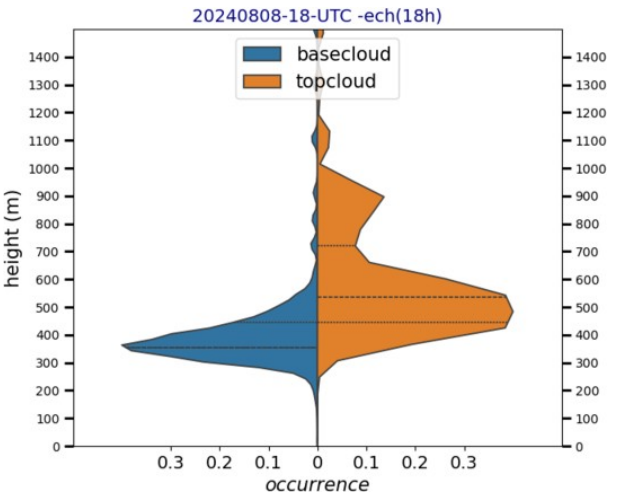


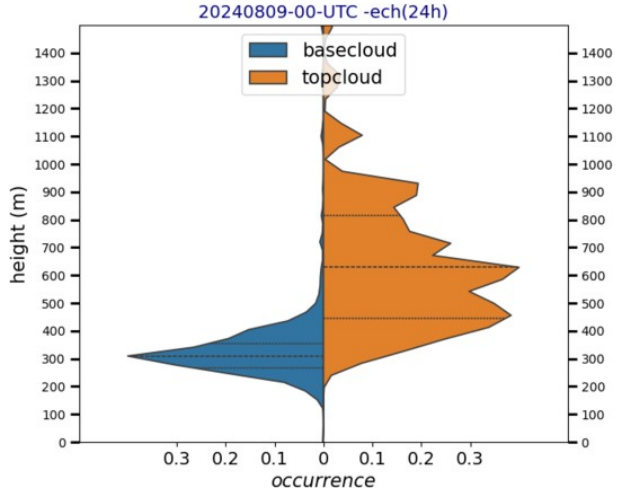


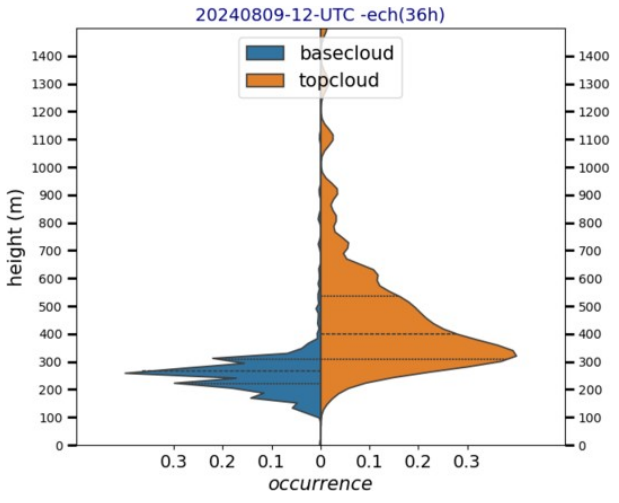
AROME base and top cloud (mean in the 3° circle)

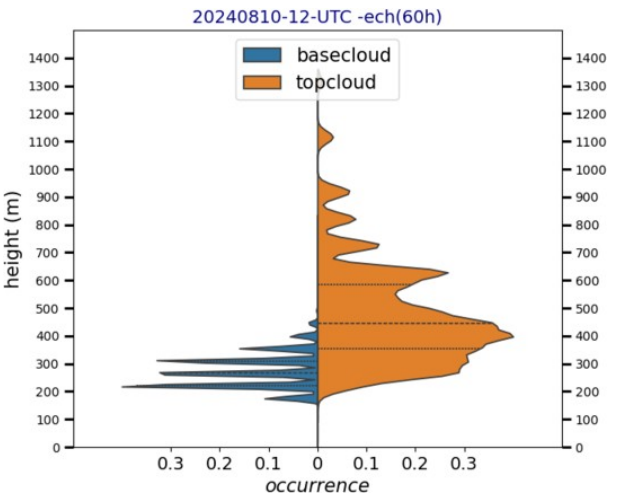




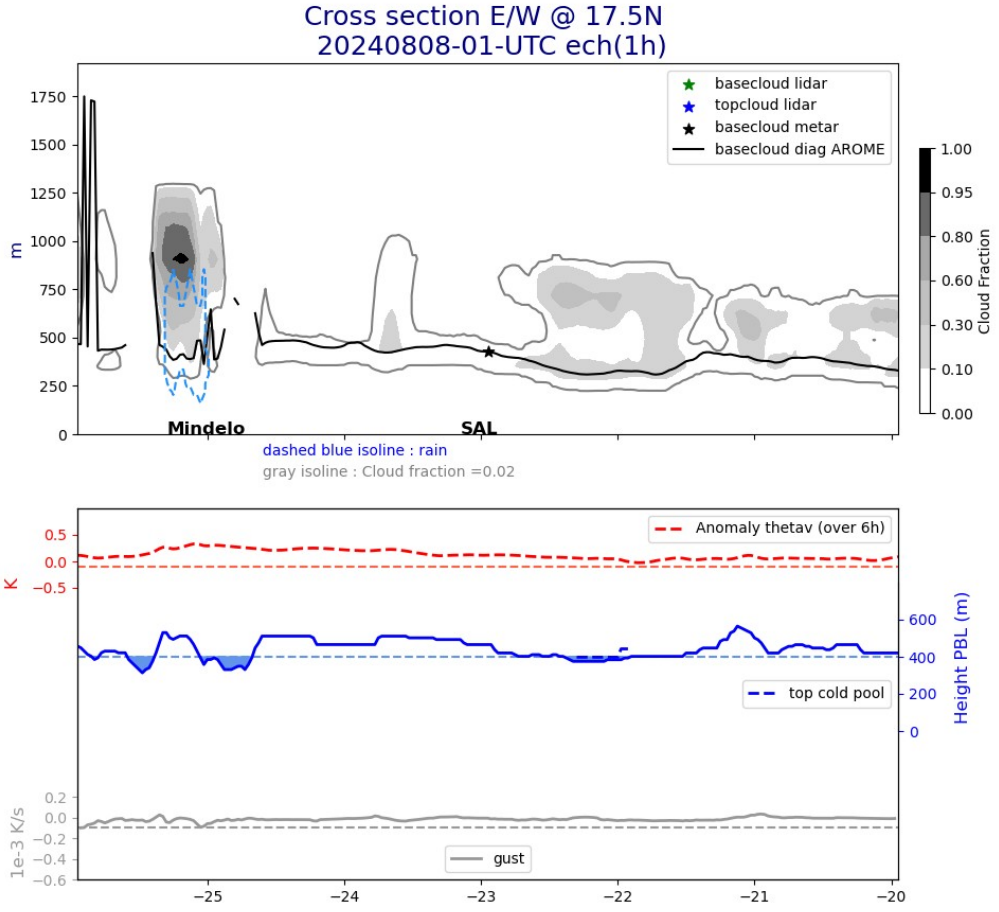


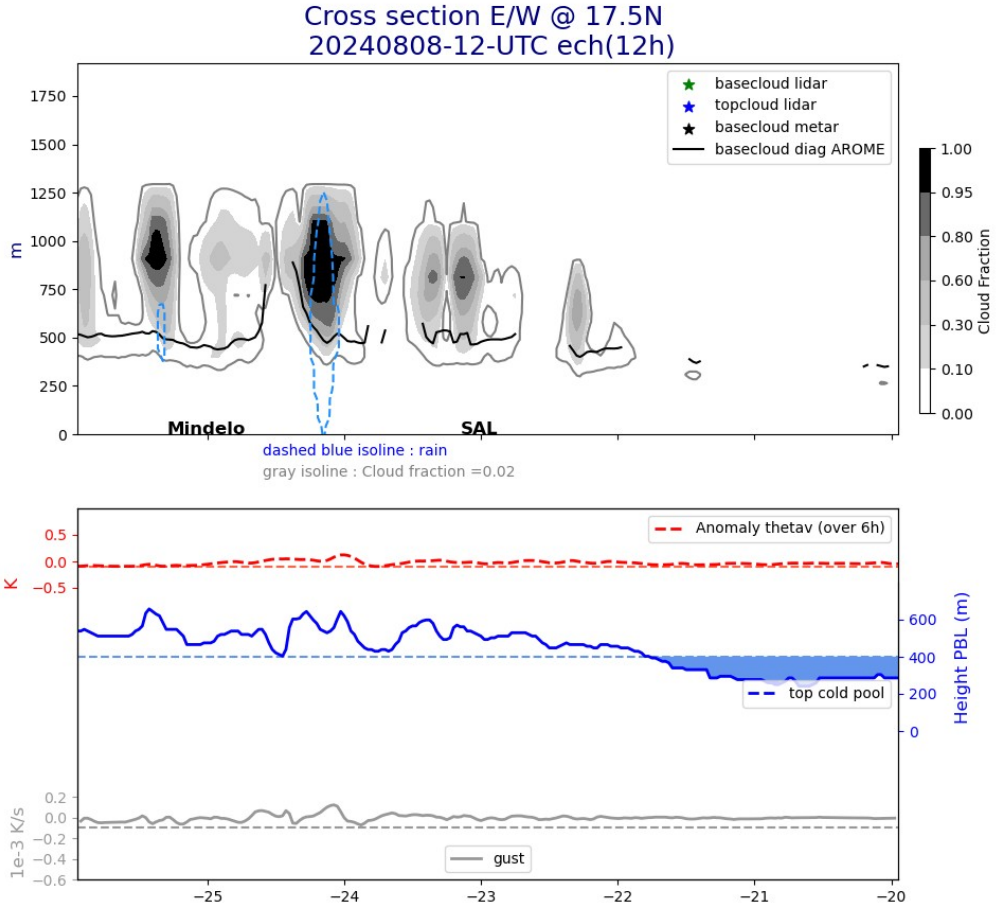




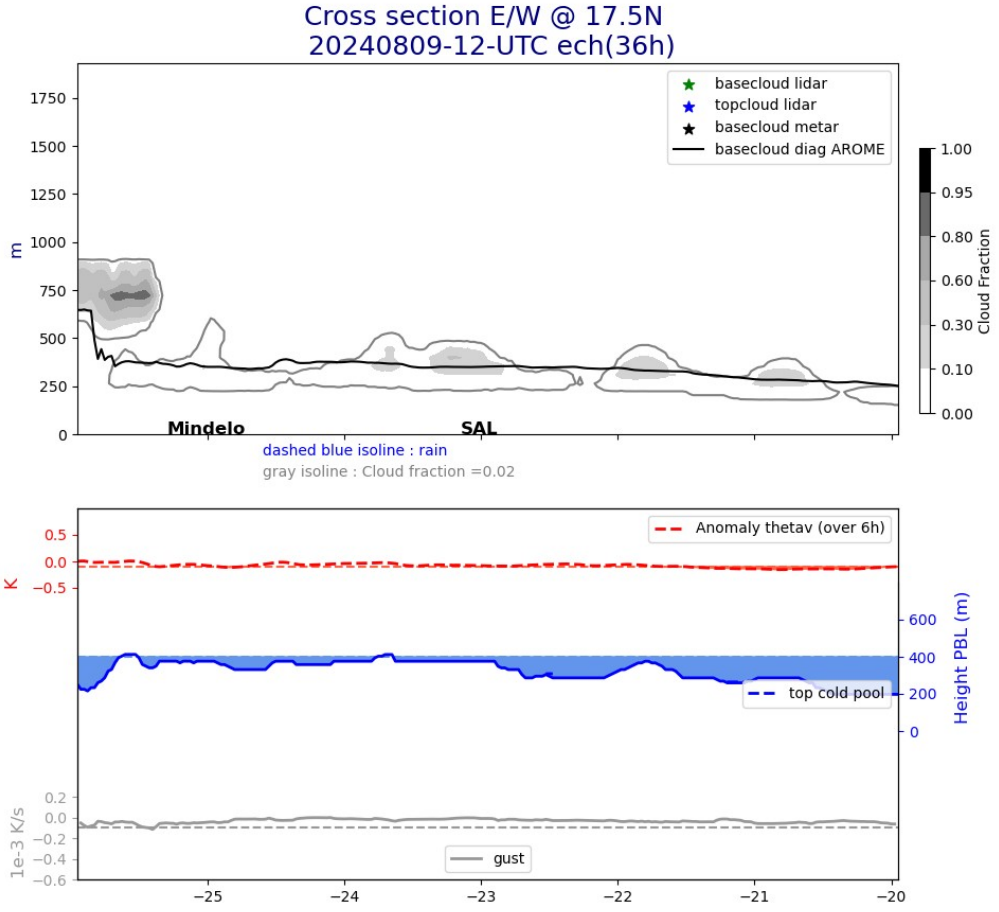


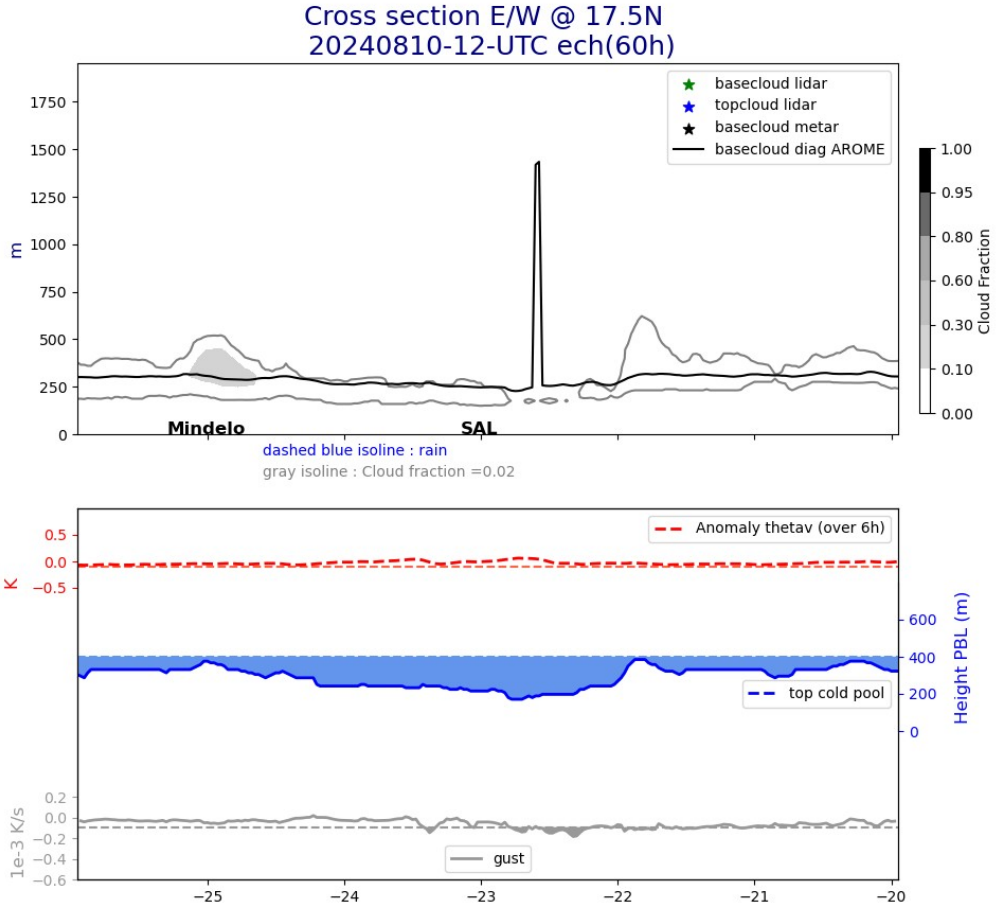
Lat. cross section @17°5N fct : 01UTC, 12UTC



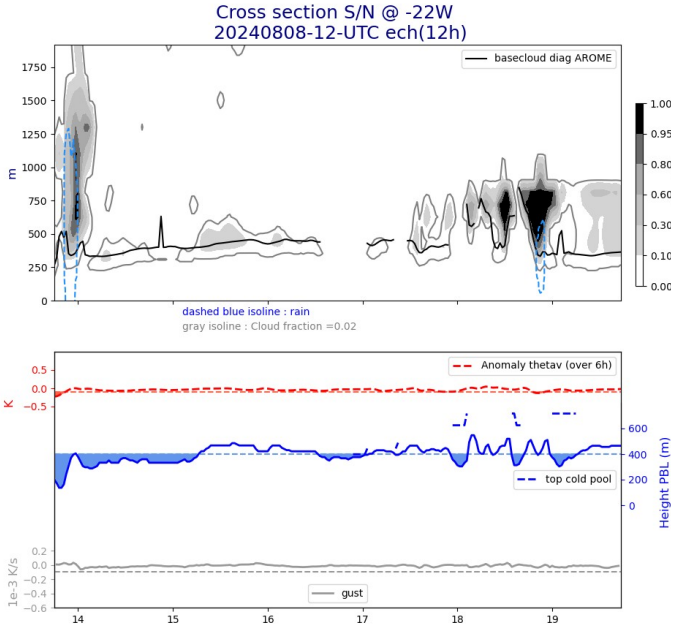


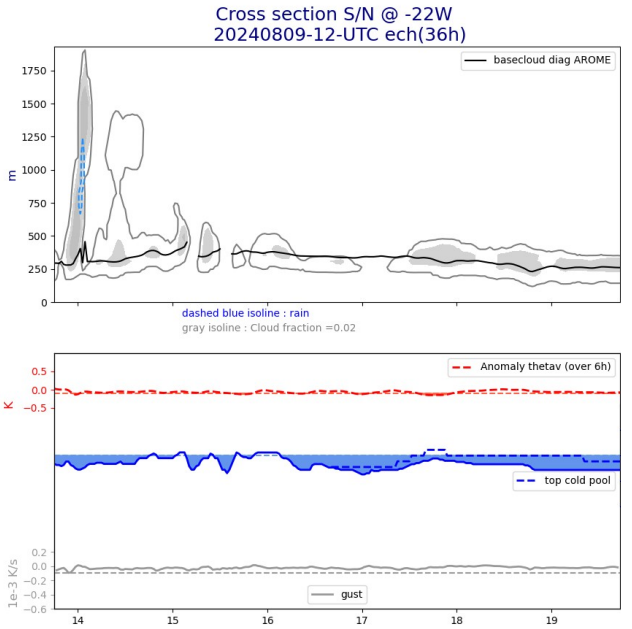
Lat. cross section @17°5N fct : J+1 and J+2 @ 12UTC

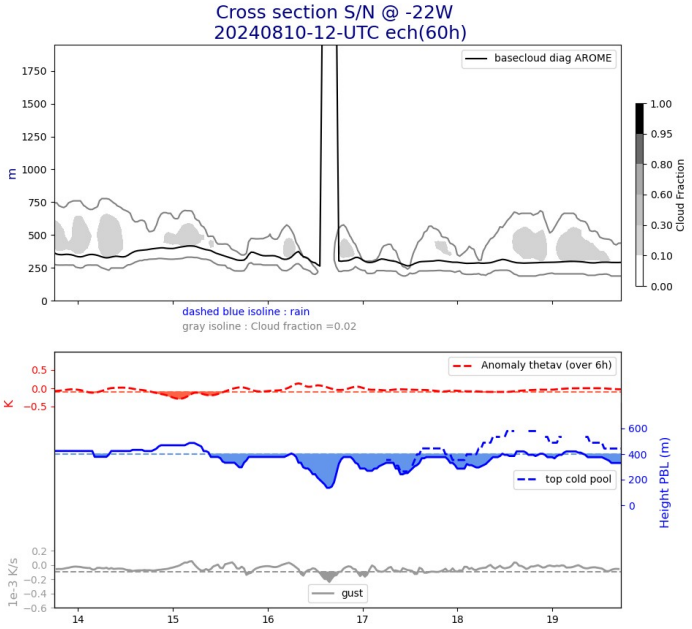




Lon. cross section @22W fct : J,J+1, J+2 @ 12 UTC

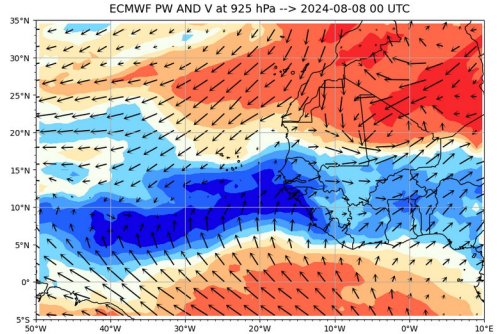


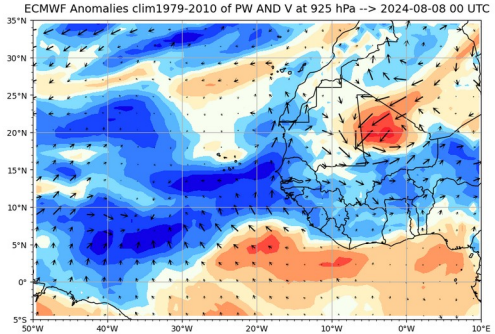


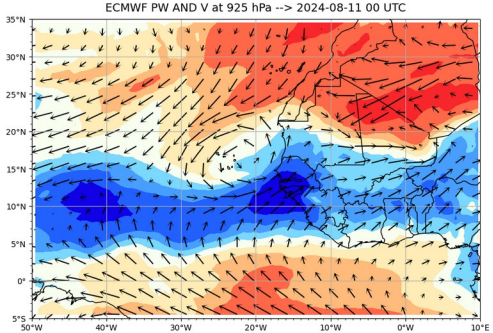


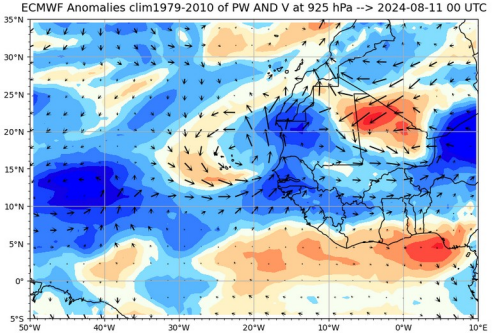
Week forecast J - J+7

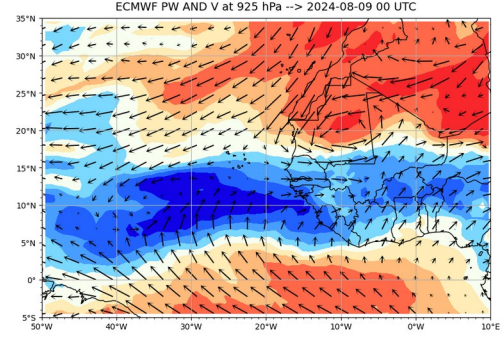
Daily PW and wind @ 925 hPa – total and anomalies

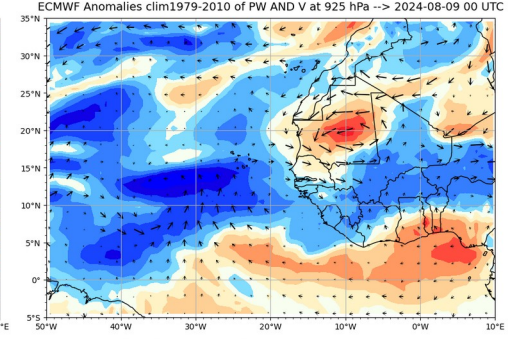


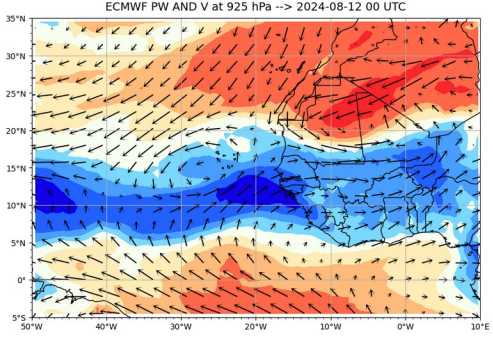


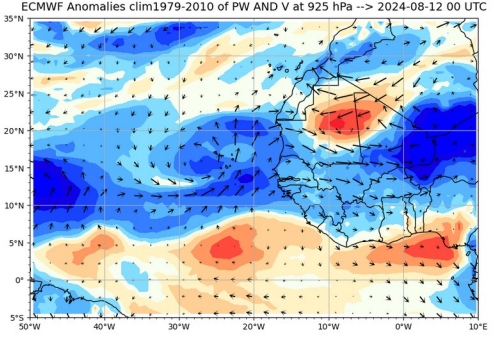


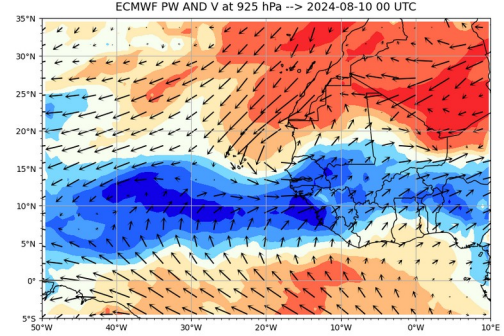


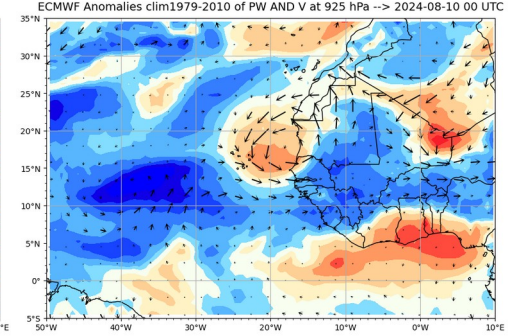


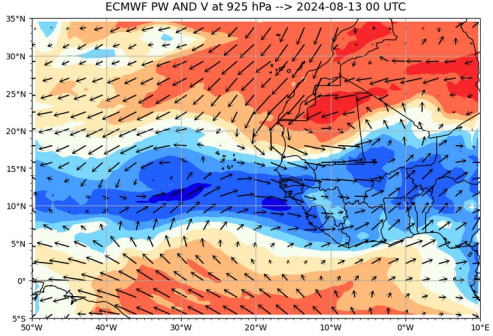


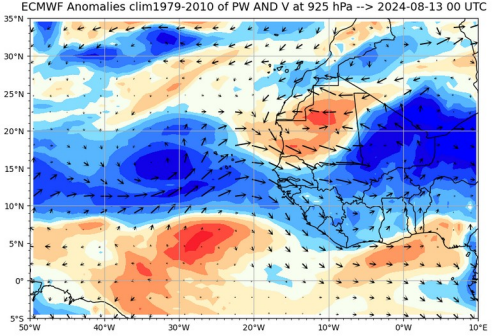




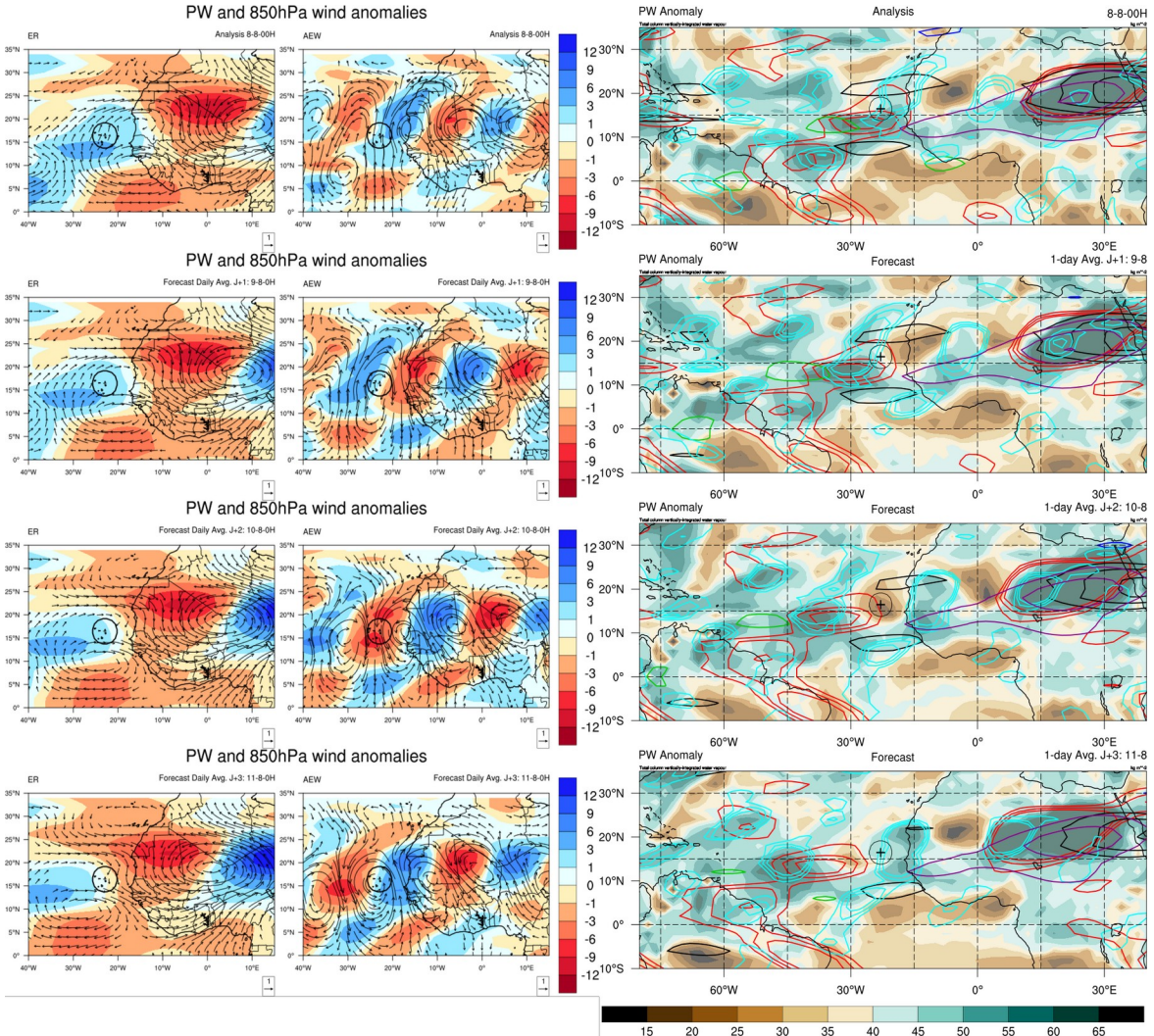




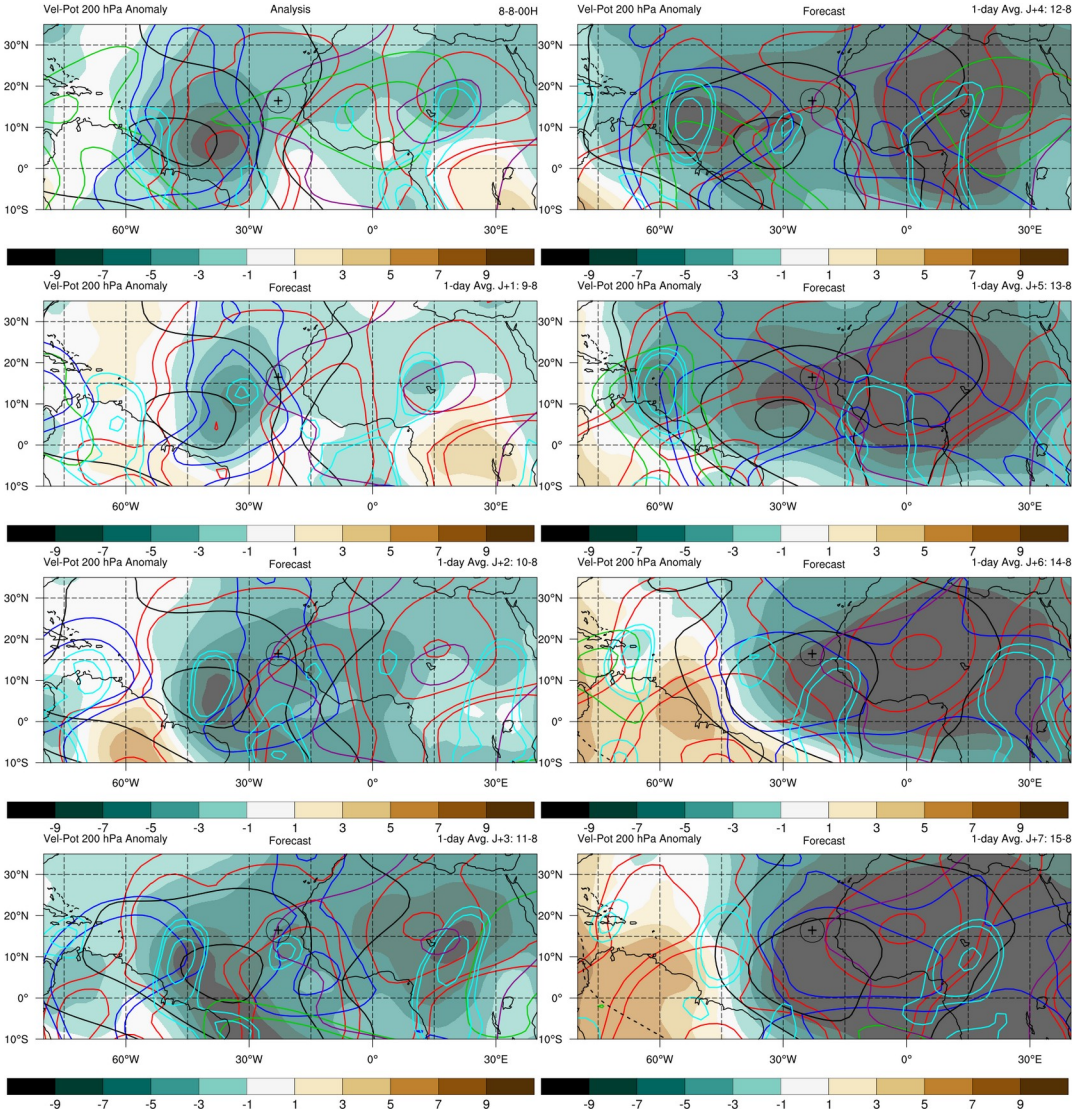




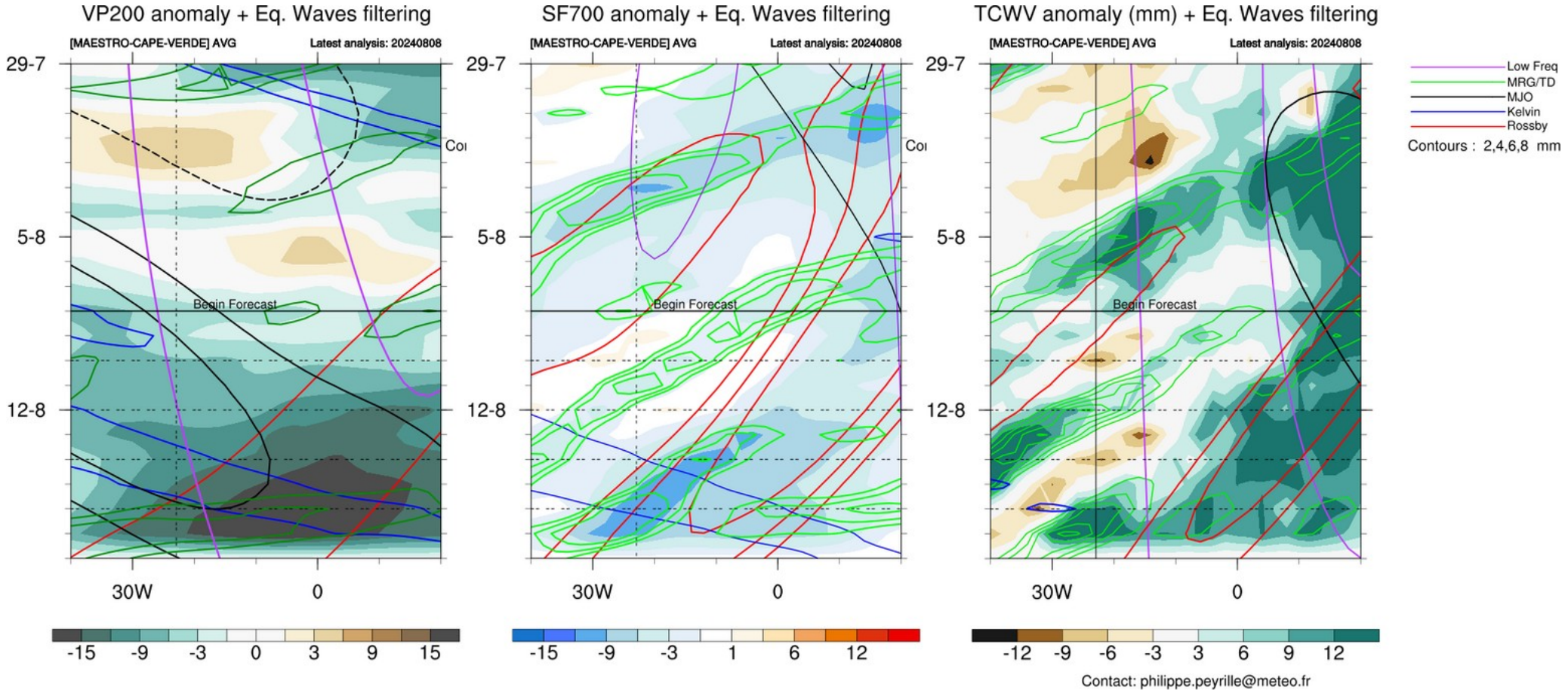
Decomposition PW/Wind and Waves contours J to J+3



Waves : Velocity potential @ 200 hPa, day J to J+7

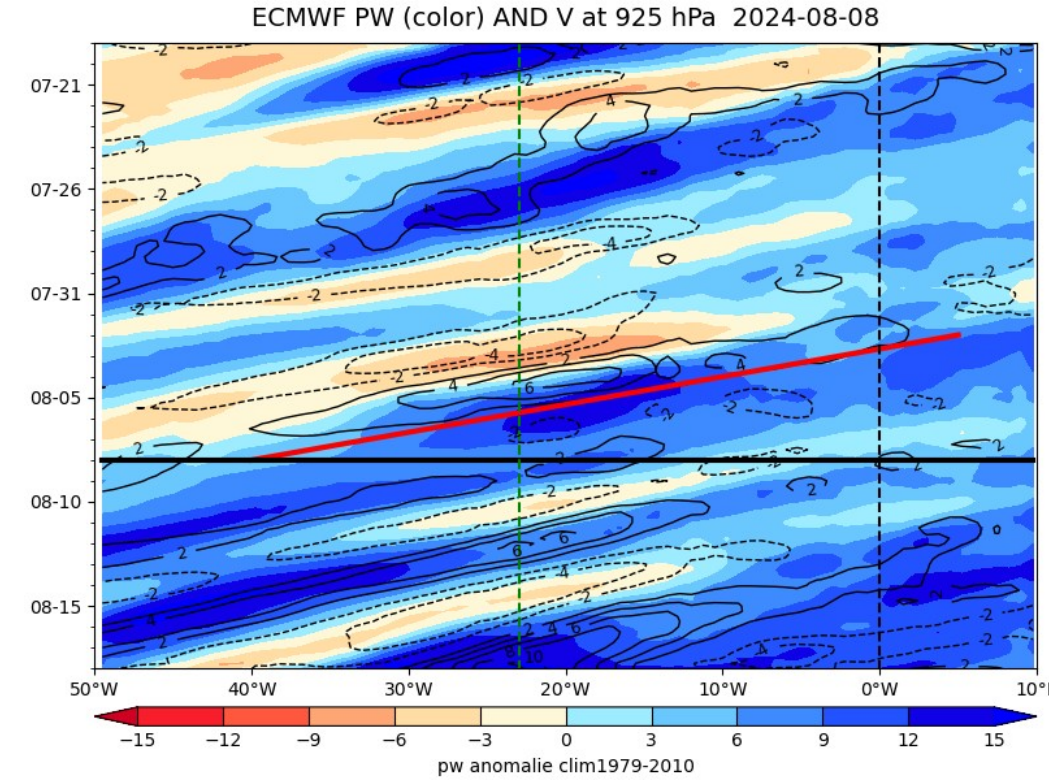


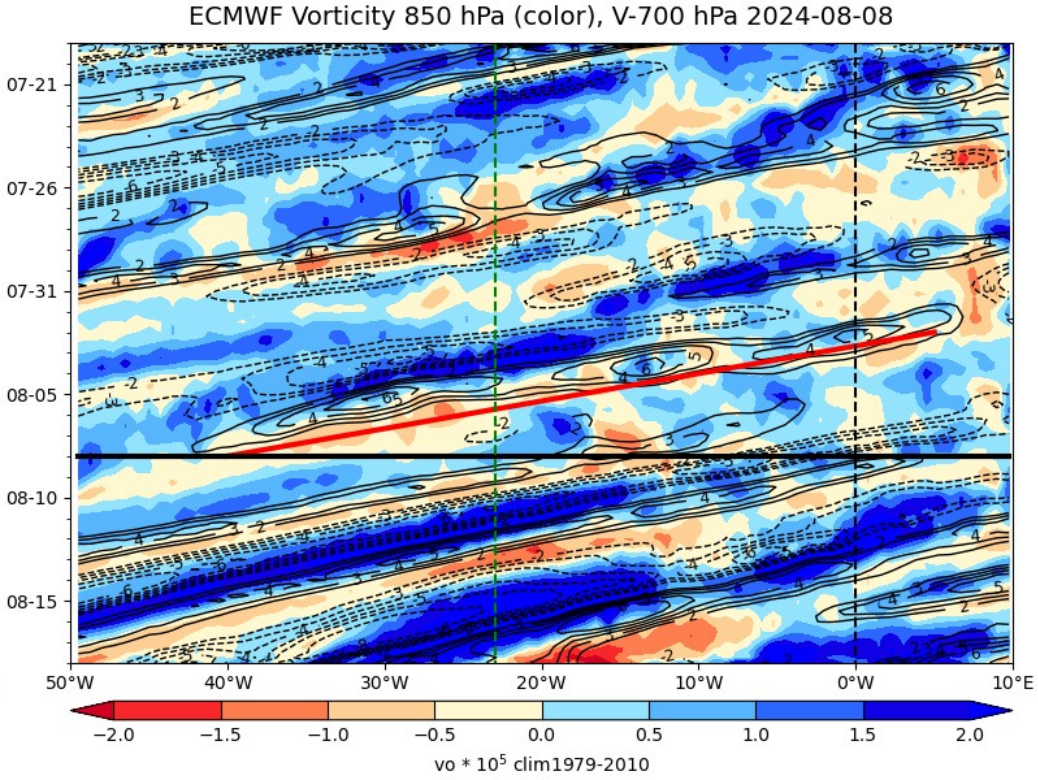
Equatorial Waves filtering hovmollers



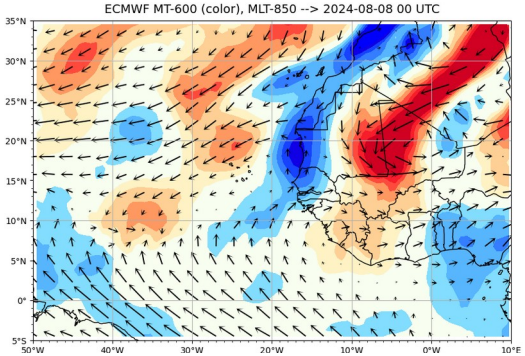
Hovmoller anomaly

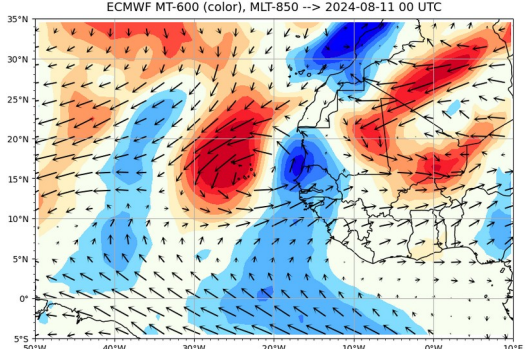
Precipitable water – vorticity 850hPa

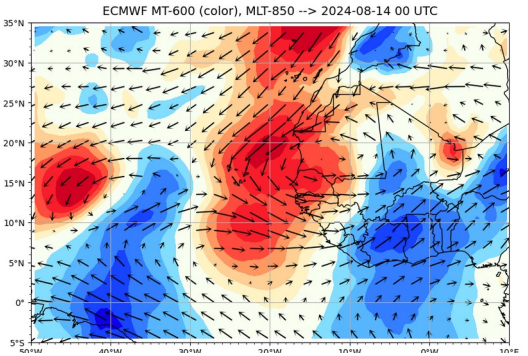


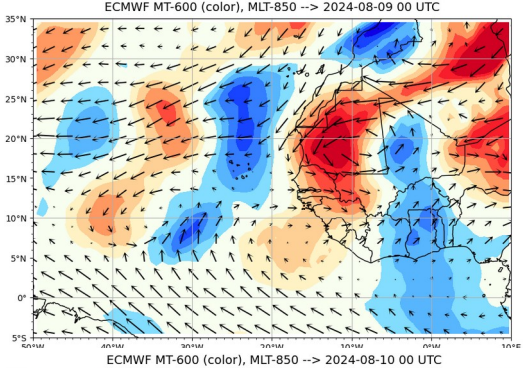


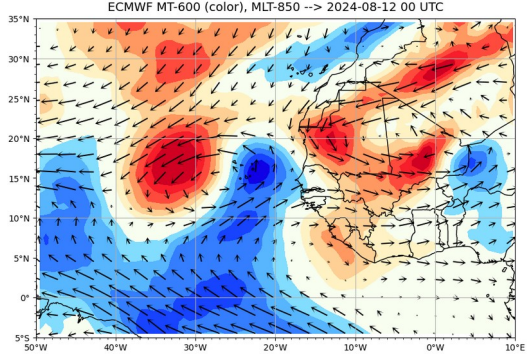
Monsoon Flow

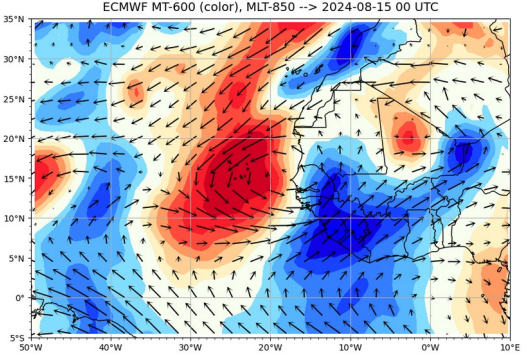


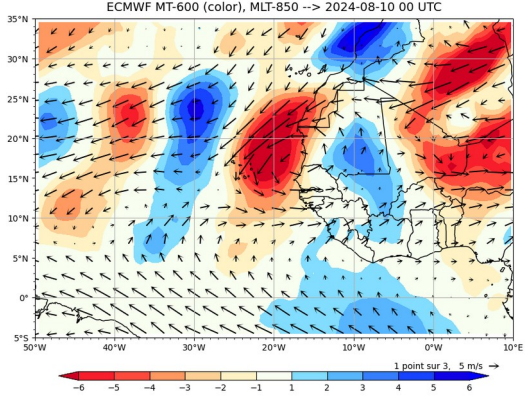


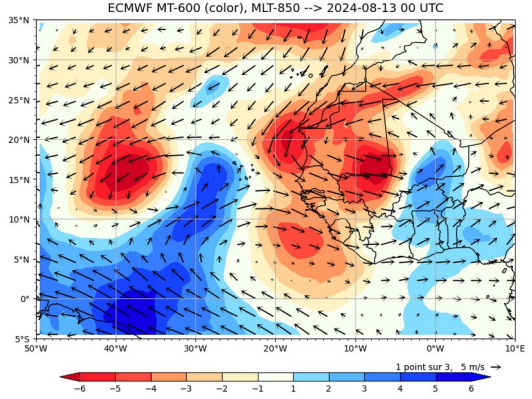


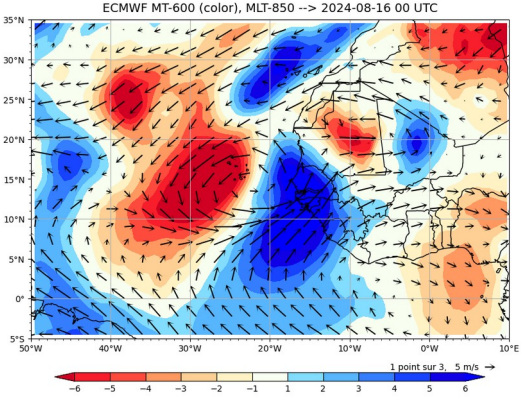




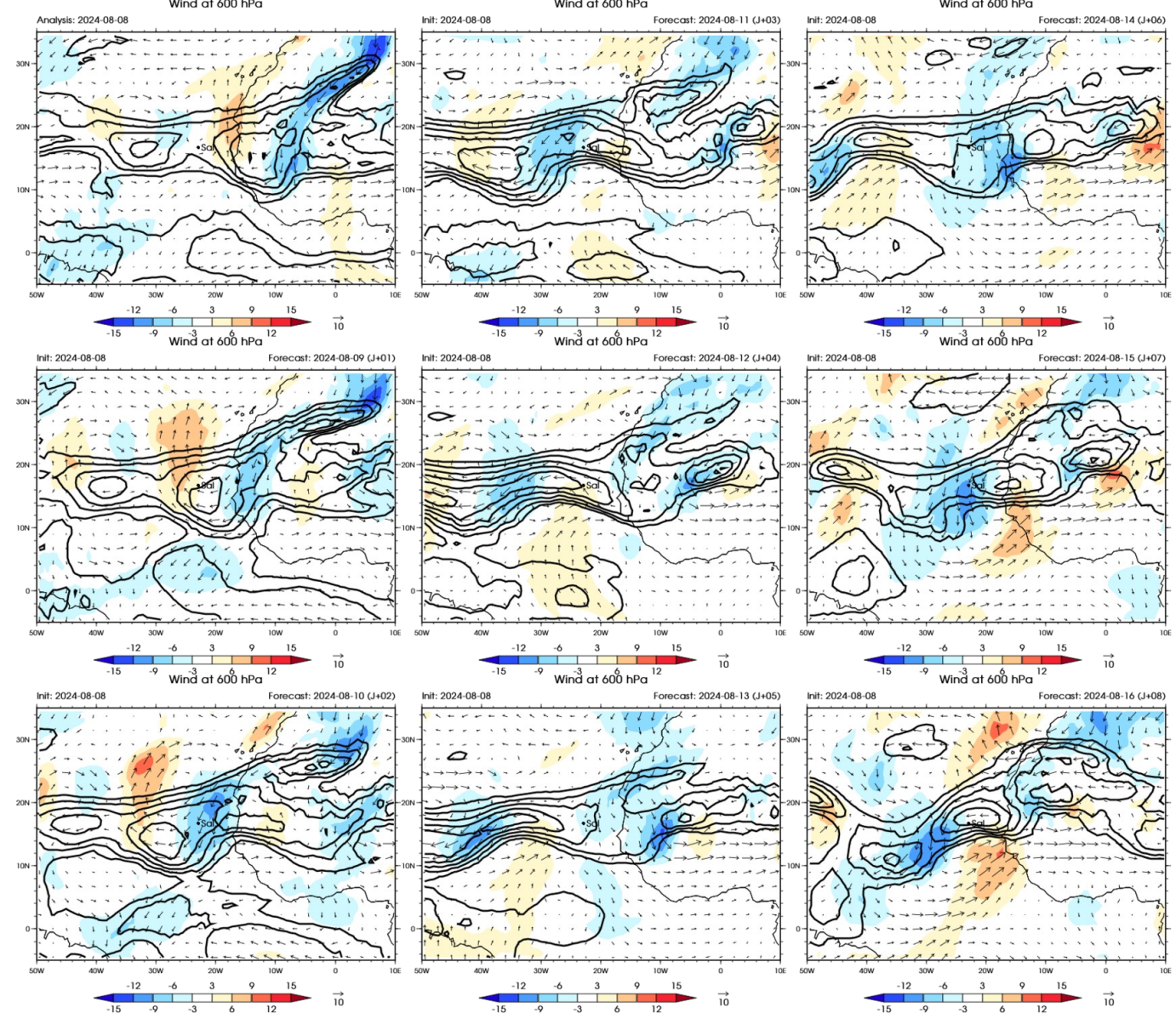








African Easterly Jet wind 600 hPa



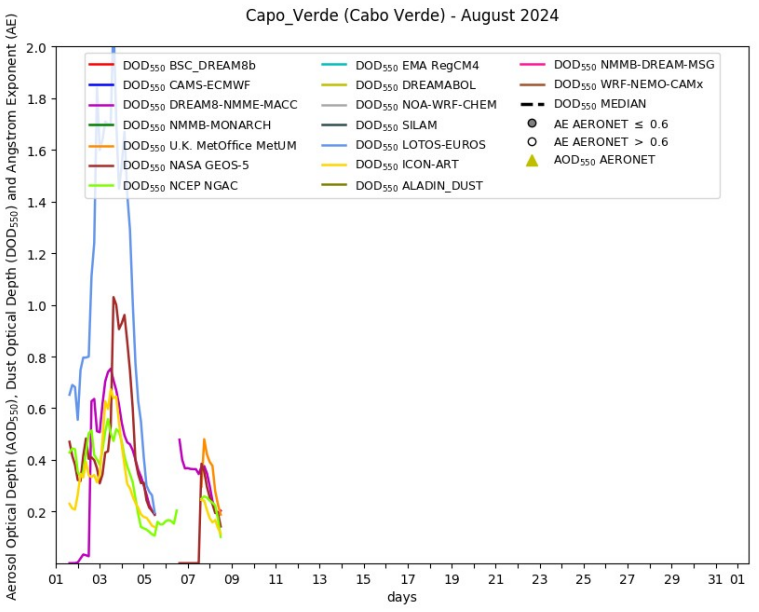
Dust Observations and Forecast

- Temporal evolution model/Obs at Sal :

https://sds-was.aemet.es/forecast-products/forecast-evaluation/Capo_Verde_v3

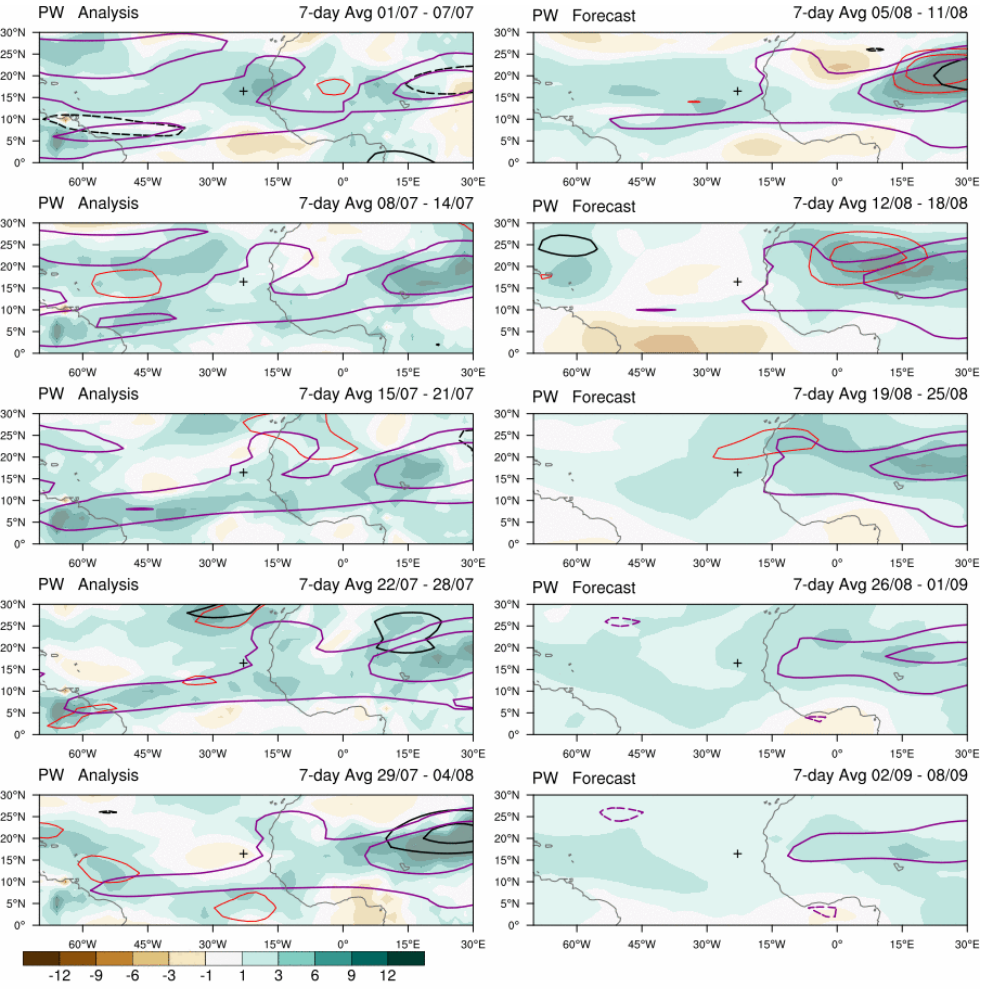
- Ensemble forecast Dust Optical Depth :

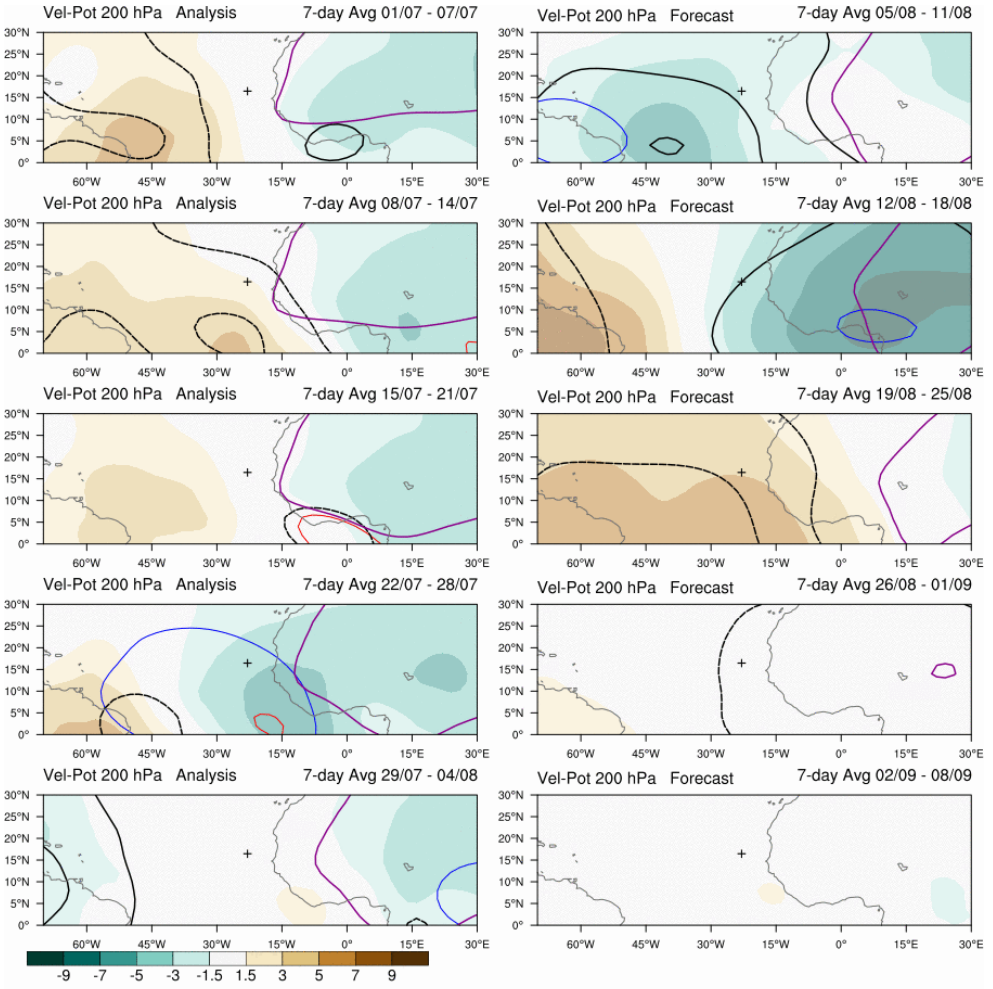
https://sds-was.aemet.es/forecast-products/dust-forecasts/ensemble-forecast



Subseasonnal forecast
(updated once a week)

4 weeks forecast PW et VP200





Contours: 2.5, 5, 10, mm

MRG/TD
Kelvin
Rossby
MJO
Low

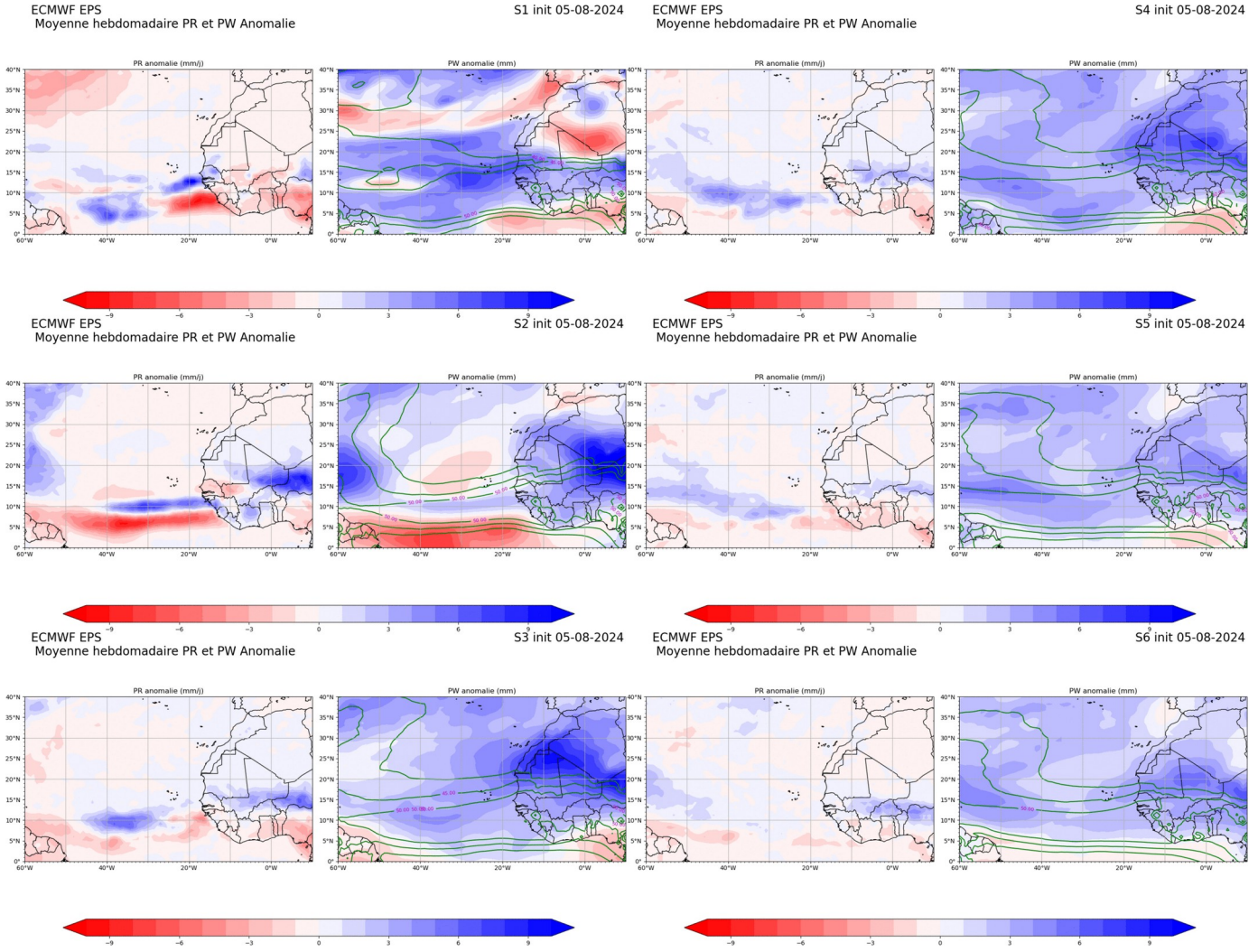
contact: Philippe Peyrille
philippe.peyrille@meteo.fr

Contours: -6, -4, -2, m2s-1

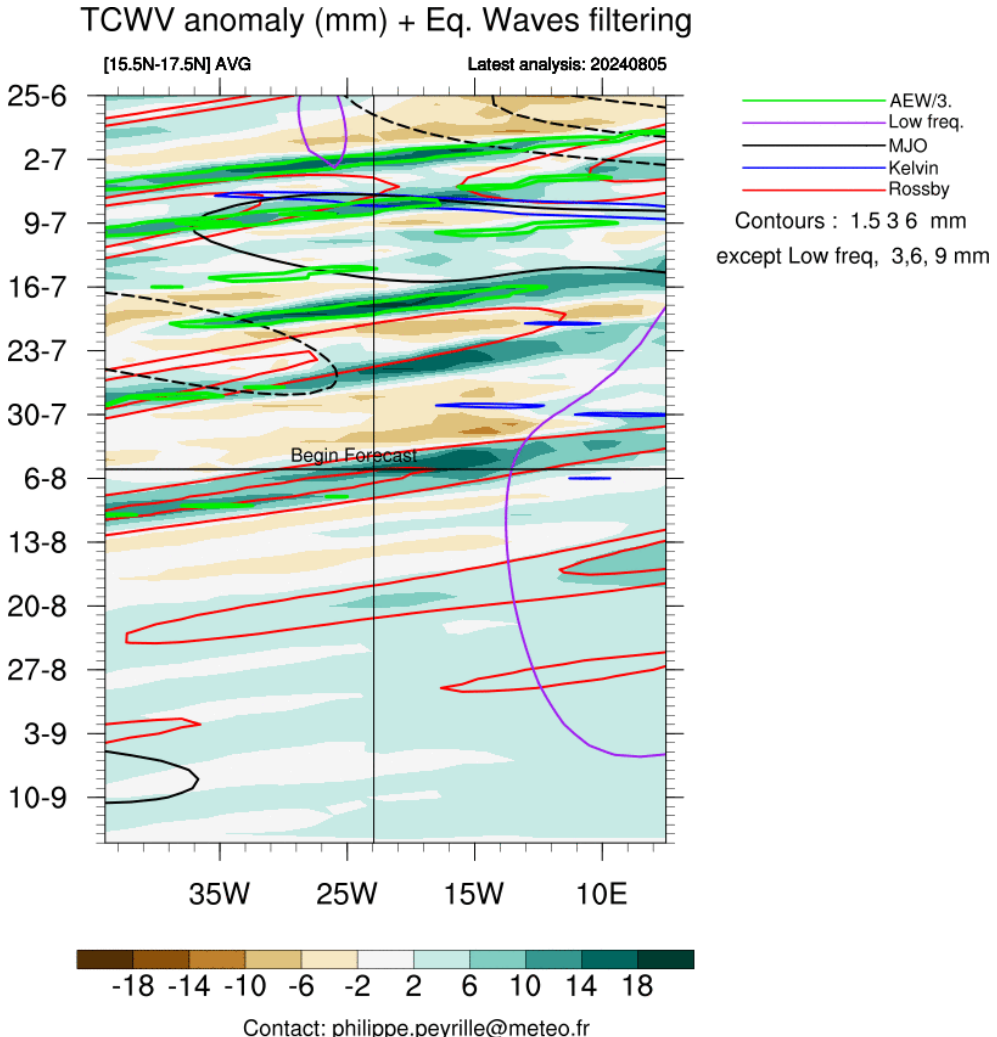
MRG/TD
Kelvin
Rossby
MJO
Low

contact: Philippe Peyrille
philippe.peyrille@meteo.fr

Precipitation and Precipitatble Water weekly anomalies + PW contours (40 mm every 5 mm)

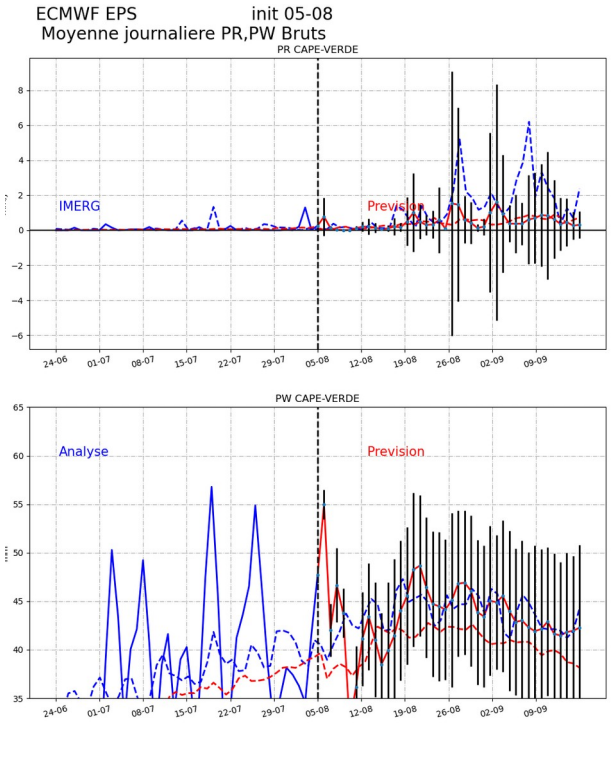


Hovmoller forecast PW over 4 weeks

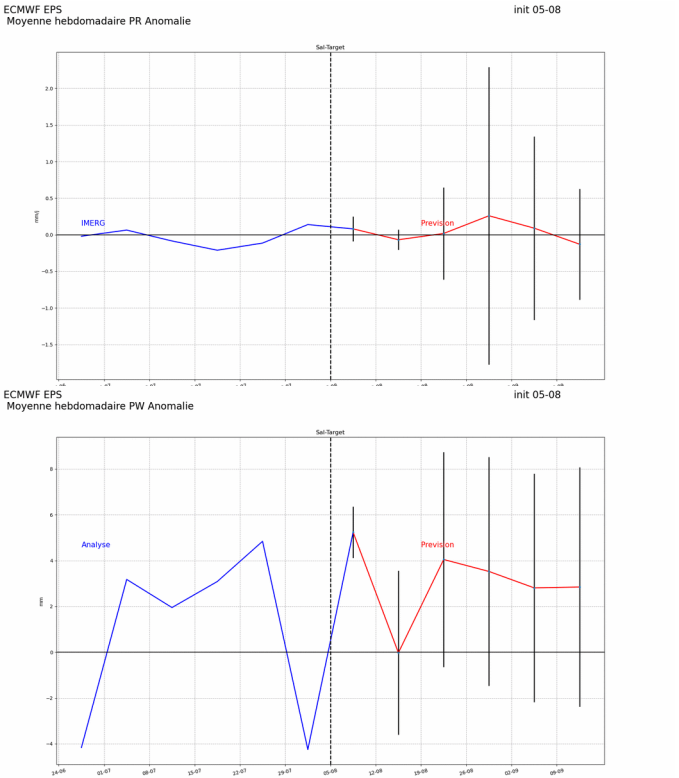


Temporal evolution PR, PW (+ EKE)

journalier



hebdomadaire



Summary

Param	J	J+1	J+2	J+3	J+4	J+5	Wave
PW/ PW*							
VP200							
VV 500							
vorticity							
Wind @ 700 hPa (m/s)							
PBL height (m)							
Base cloud (m)							
Orga cloud							

Aide Synthèse Jour

Param	+h	J+6h	J+9h	J+12	J+15h	J+18h	J+21h	Ondes
PW/ PW*	50/ +2	51/ +3						
Vorticity								
Wind 700 hPa (m/s)								
PBL height (m)								
Base Cloud (m)								
Orga cloud								