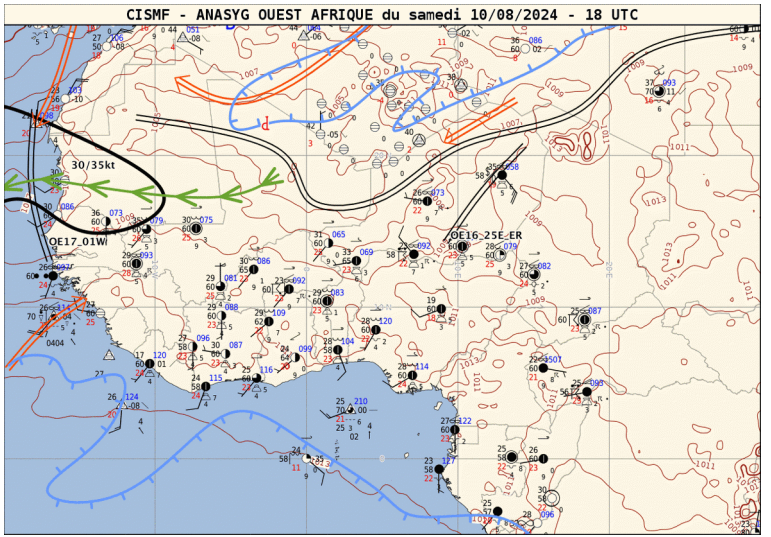
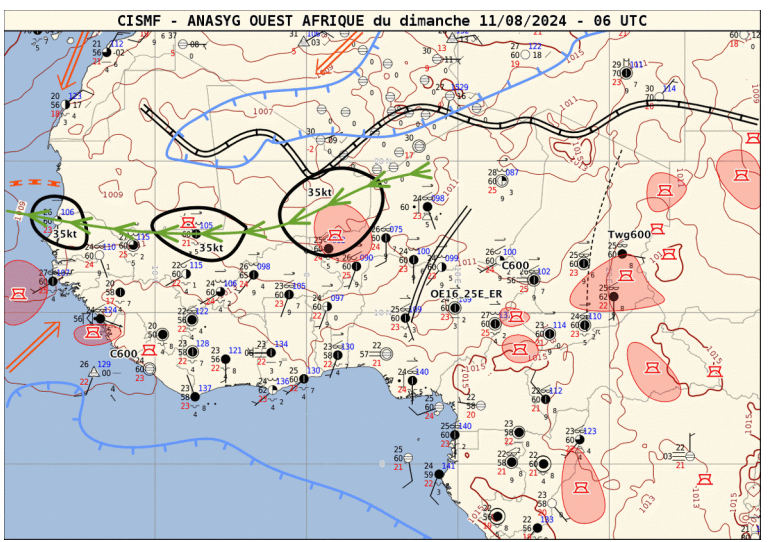
# DAILY SUMMARY MAESTRO

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

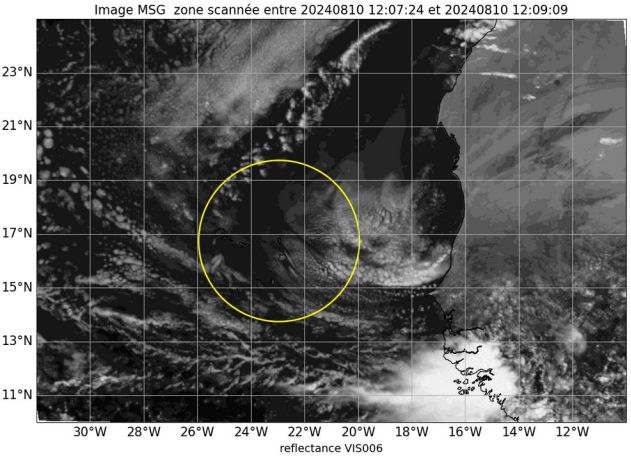
Anasyg J-1 18 UTC et J 06 UTC

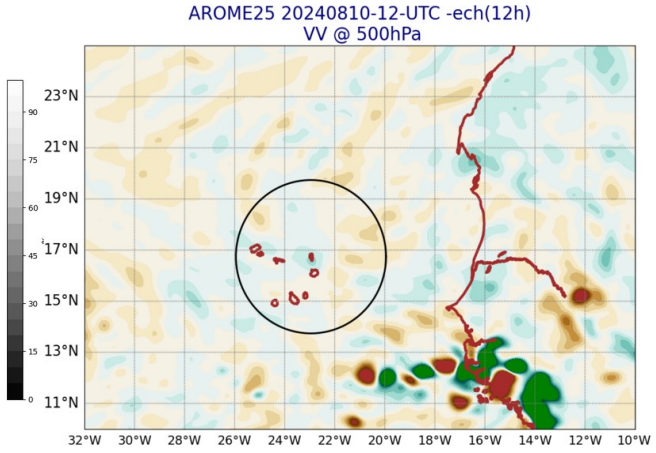


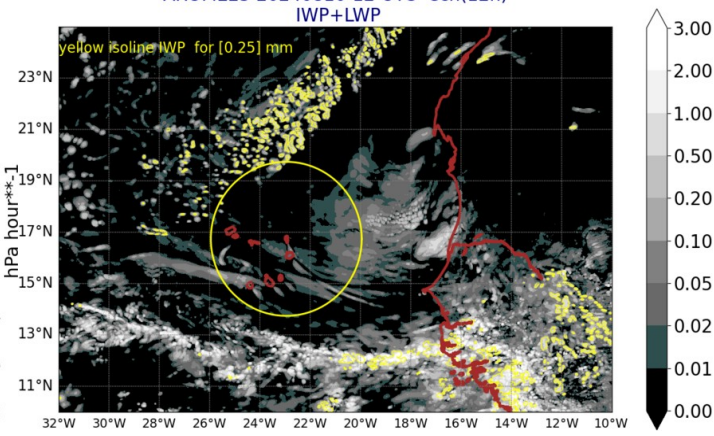



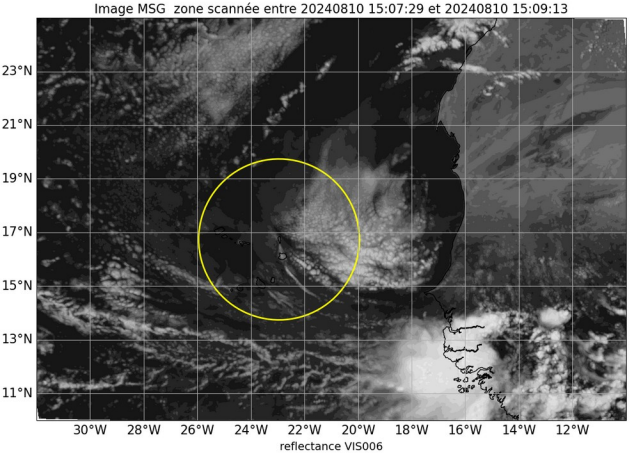
# Image MSG Visible J-1 12 and 15 UTC

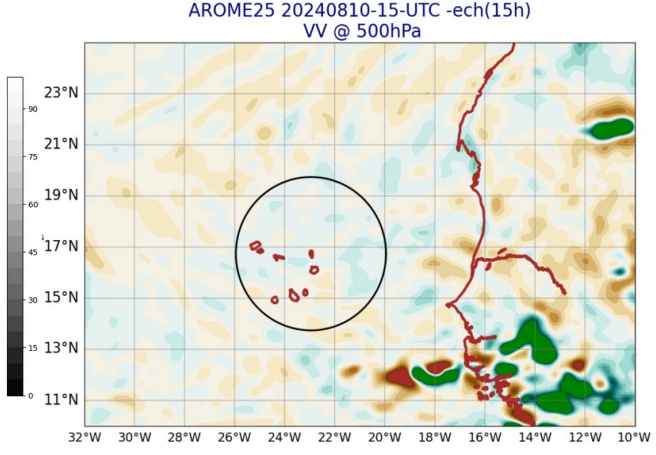
# Arome J-1 12 and 15 UTC

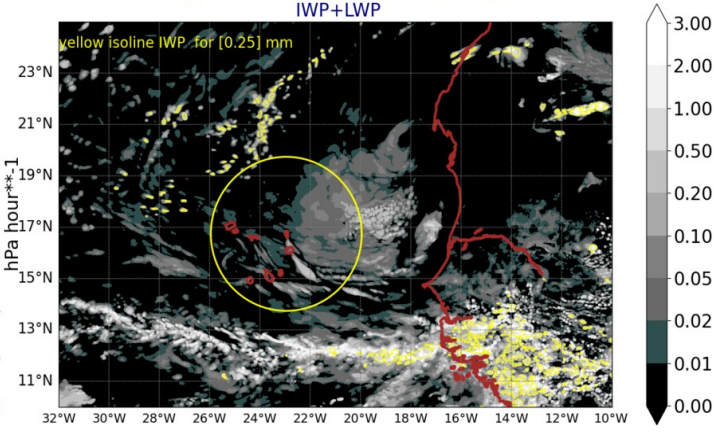


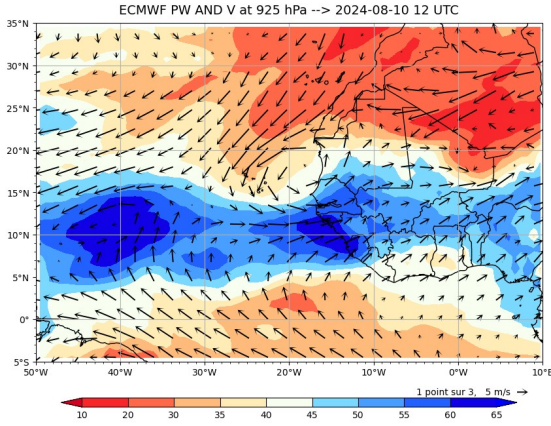



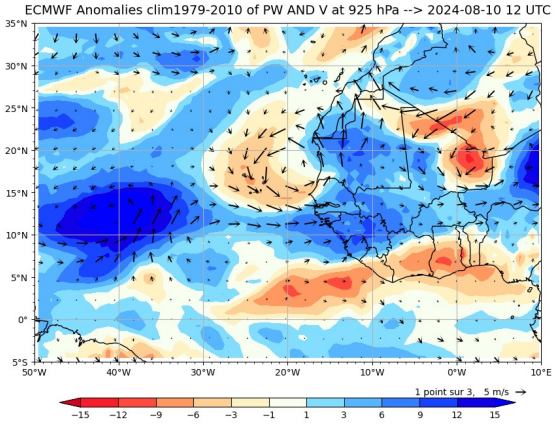



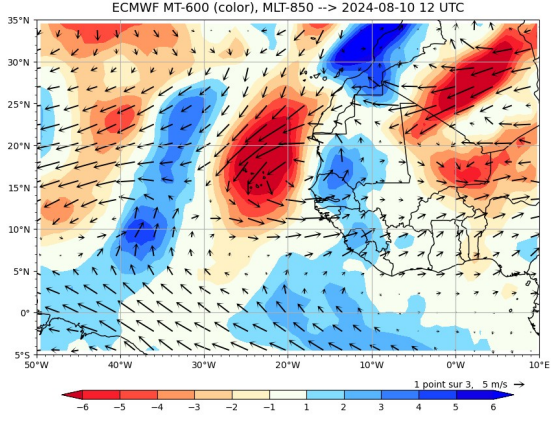
# Precipitable Water – PW anomaly

## J-1 12UTC




## Merid. Transport

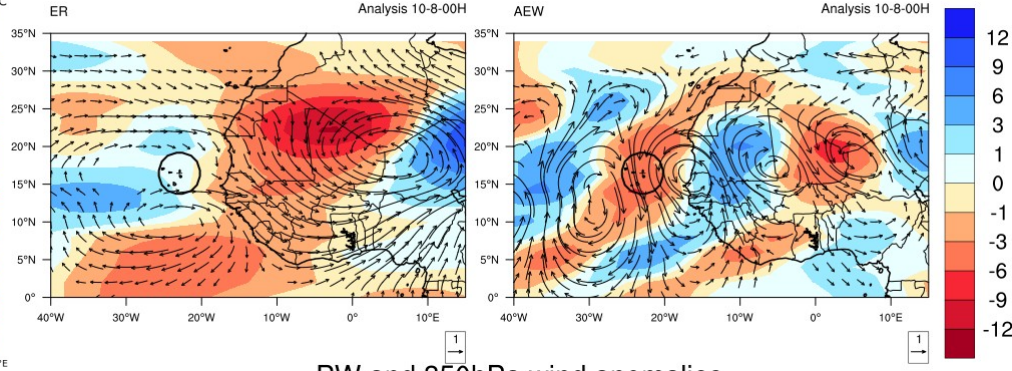


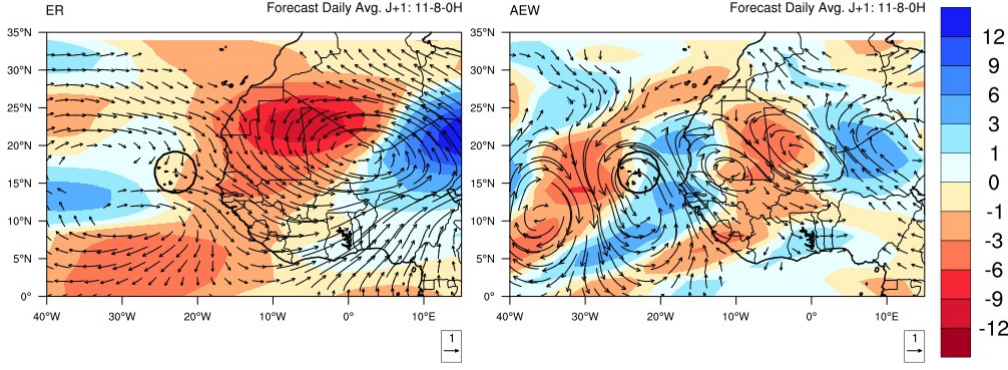

# Waves J-1 00 UTC and J 00UTC

## Equatorial Rossby - African Easterly Waves

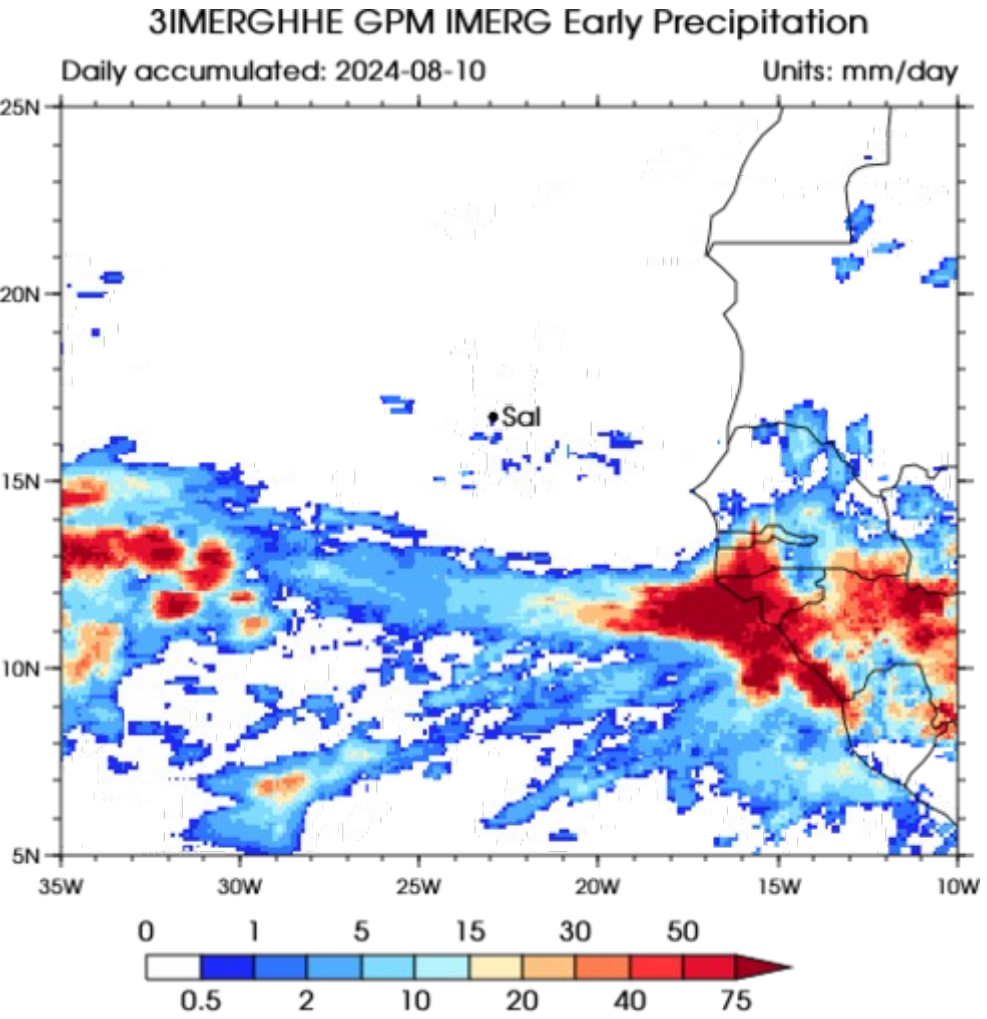
### PW and 850hPa wind anomalies

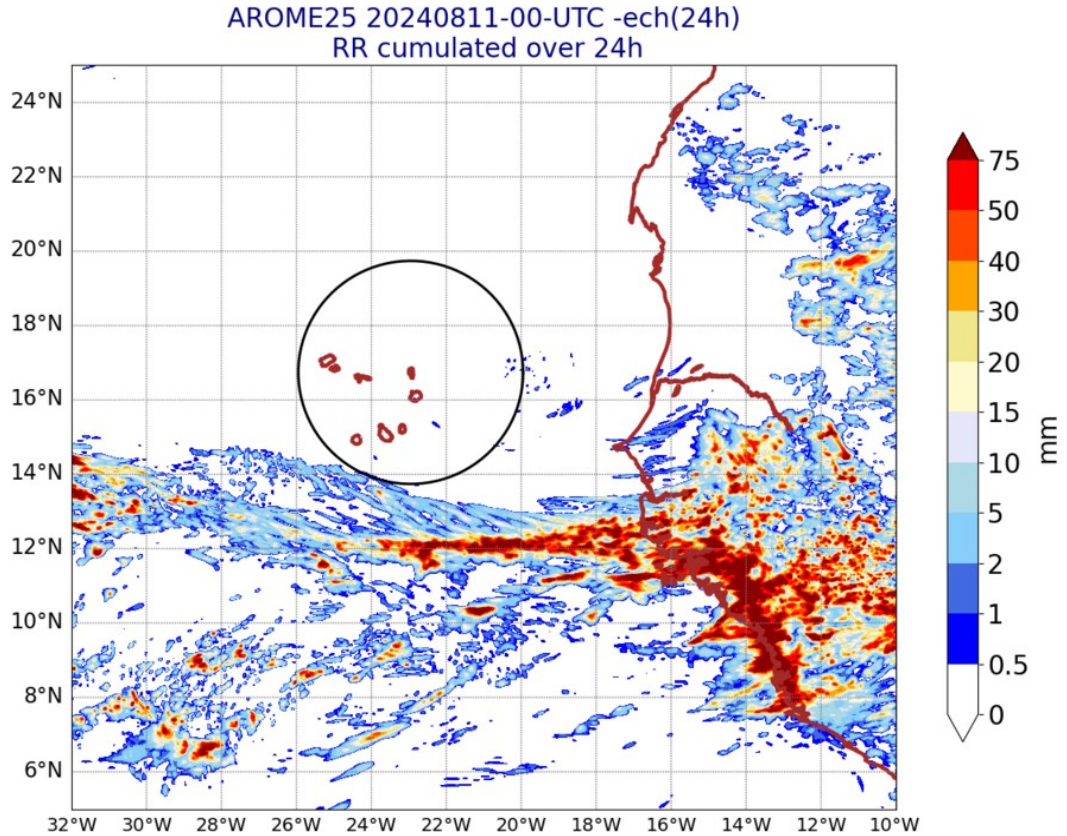



### PW and 850hPa wind anomalies



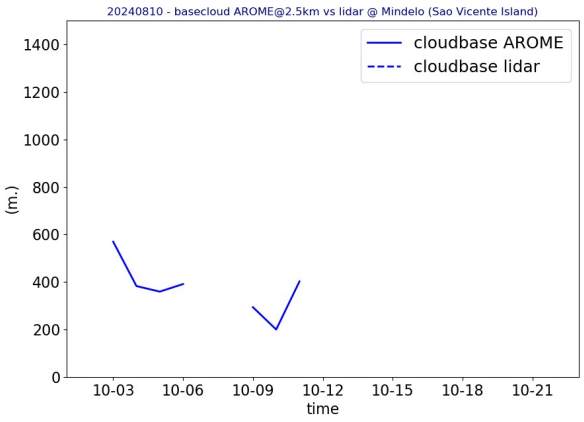
# Precipitation IMERG and AROME J-1

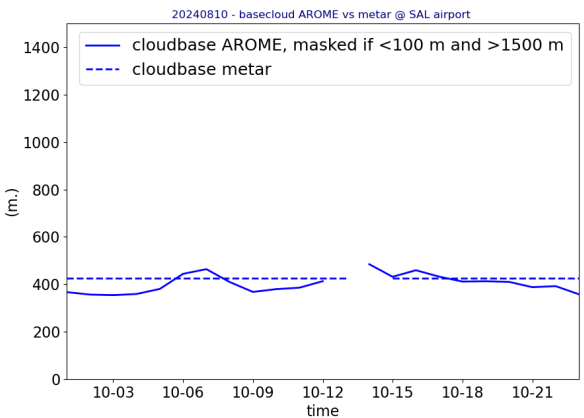


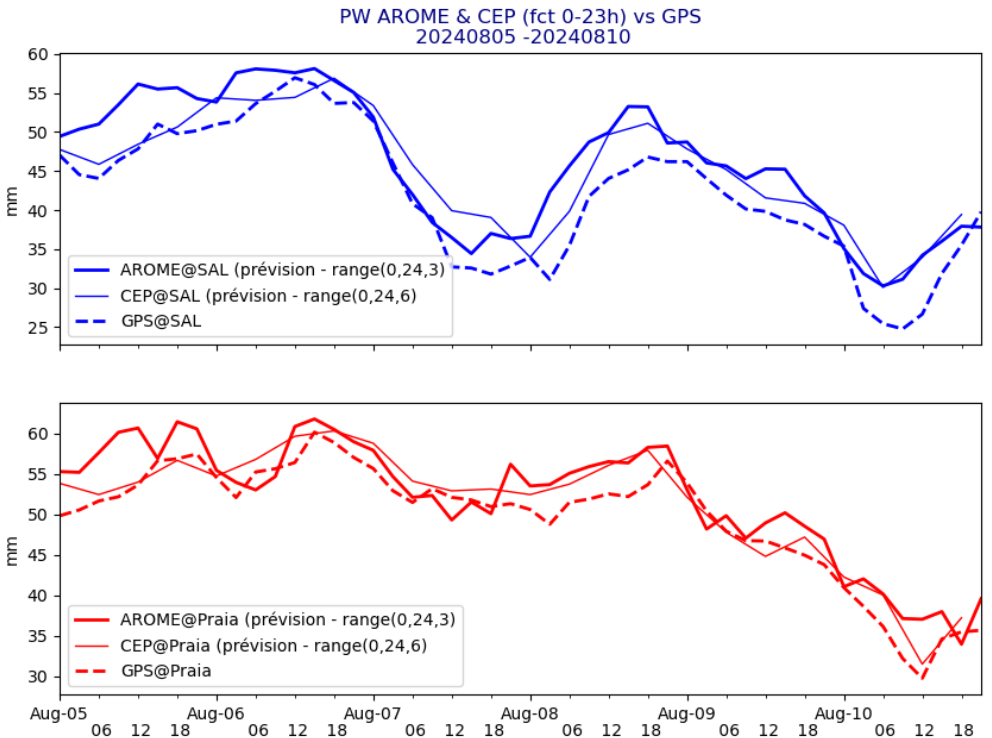
# OBSERVATIONS J-1

## Lidar@ mindelo
## metar@sal



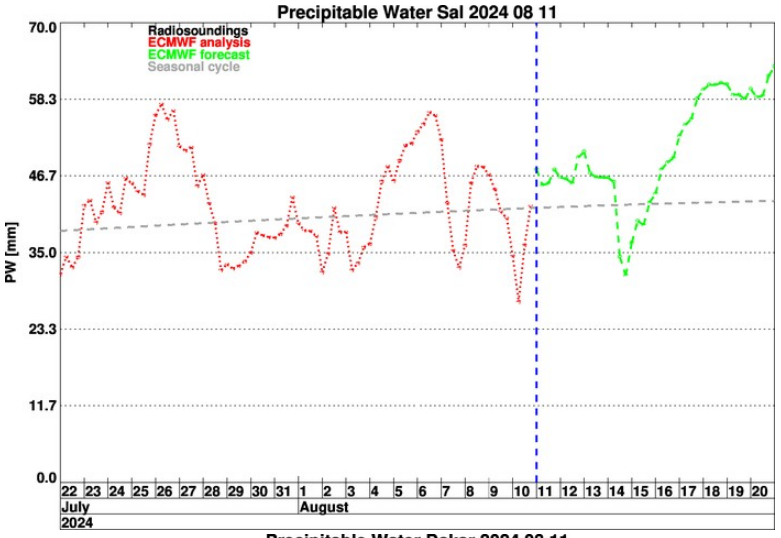



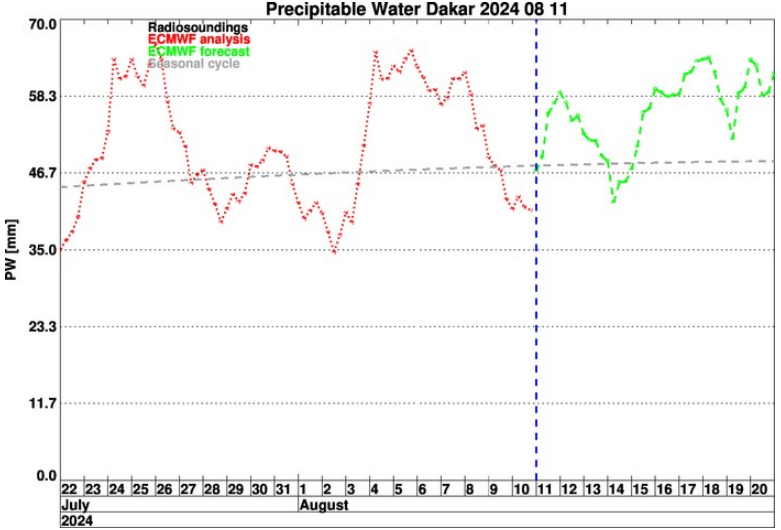

## GPS @ Sal
## GPS @ Praia

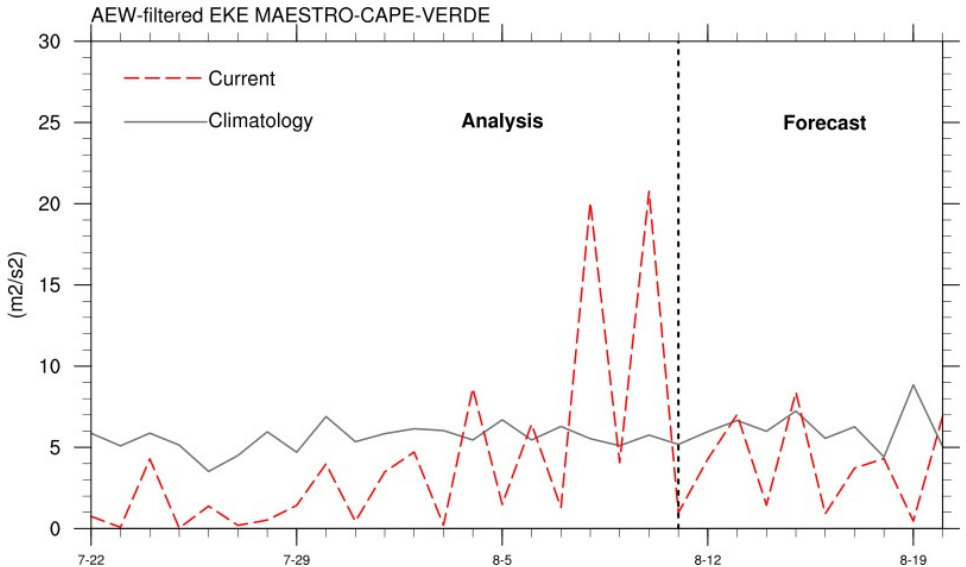


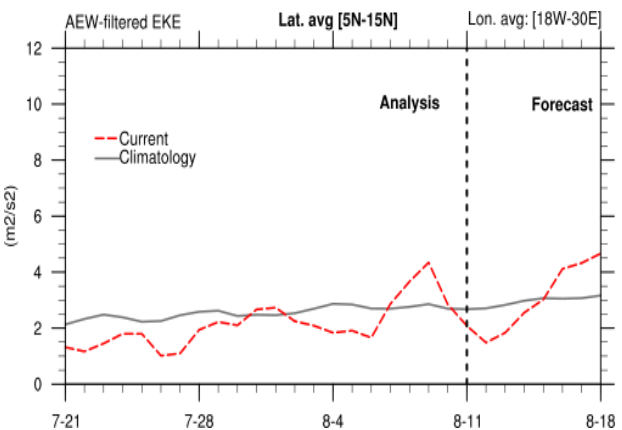
# Short term forecast J - J+36h

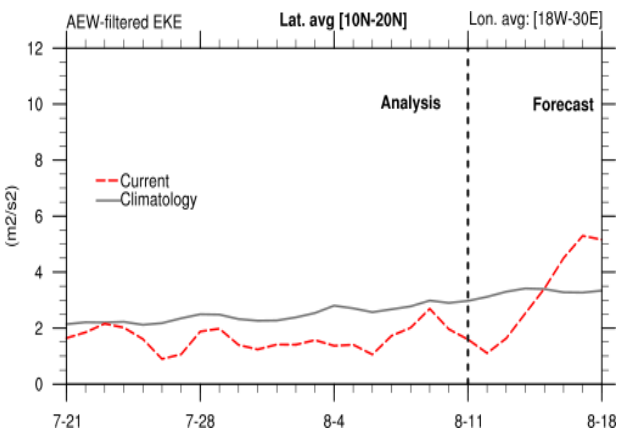
# Temporal evolution PW Sal et Dakar + EKE



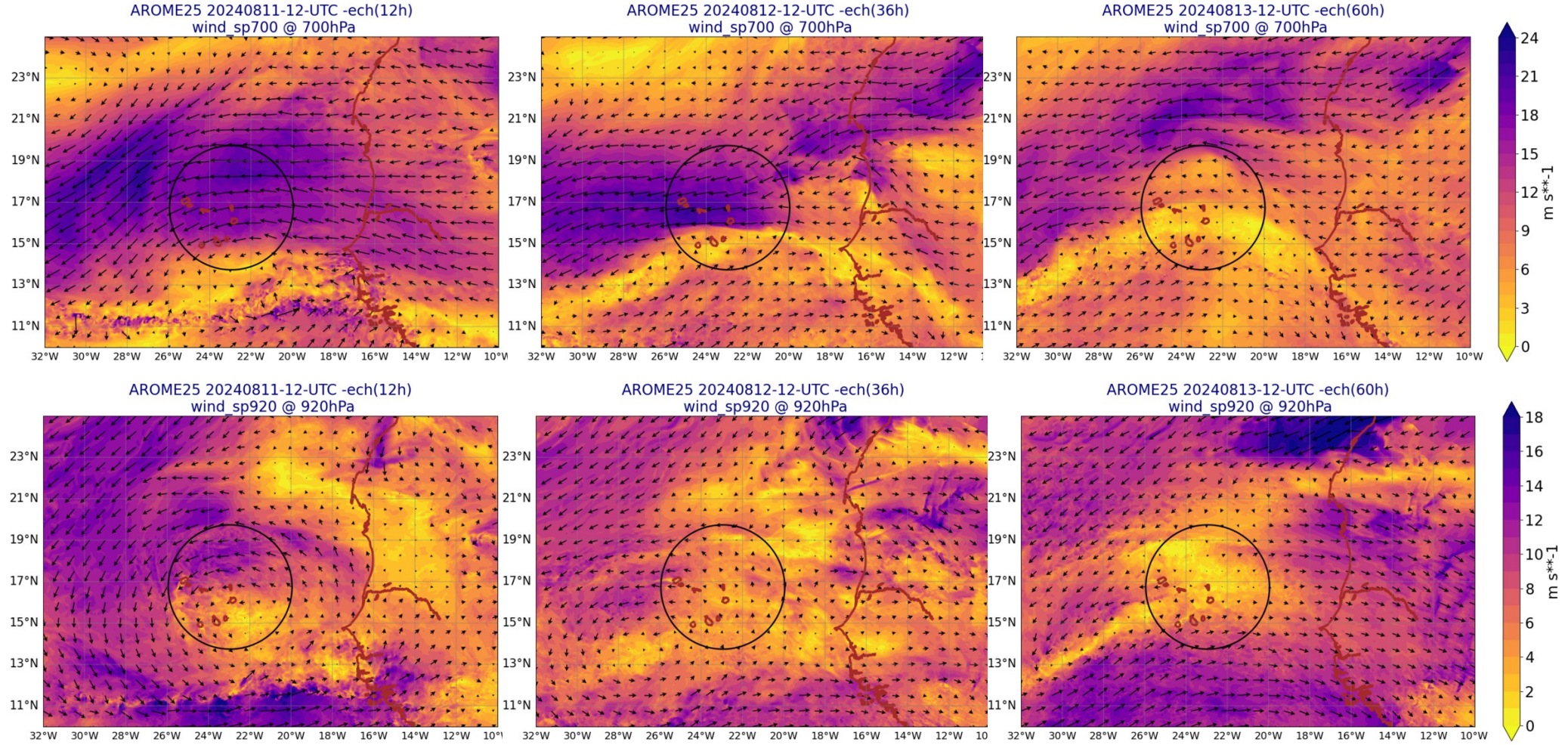



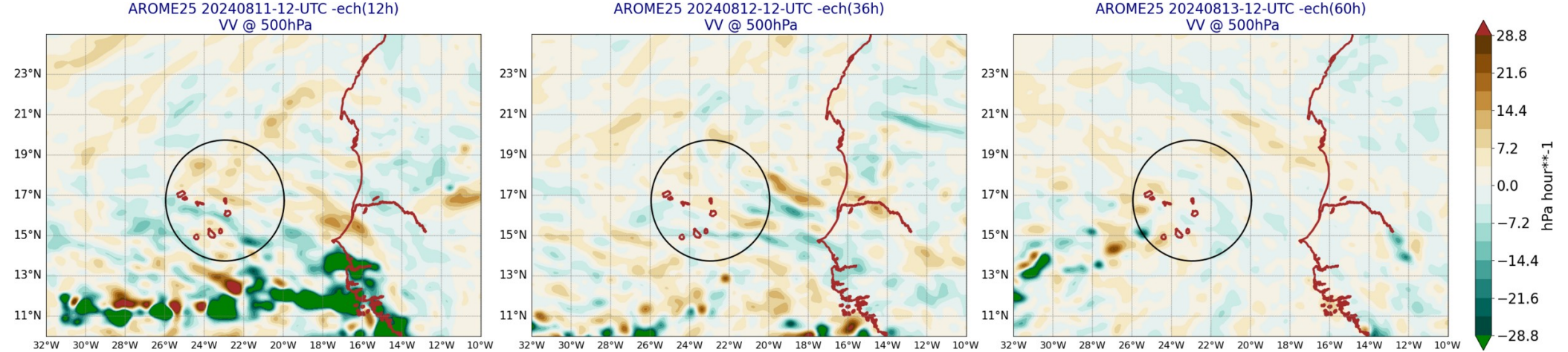



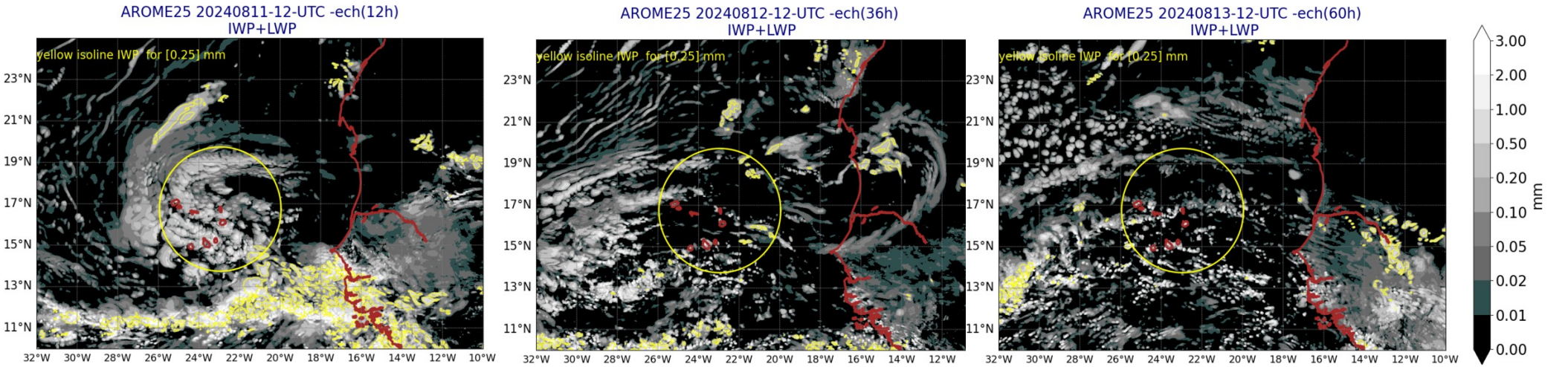



# AROME Wind @ 700 hPa
# AROME Wind  @ 920 hPa



# AROME VV @ 500hPa
# AROME LWP+IWP

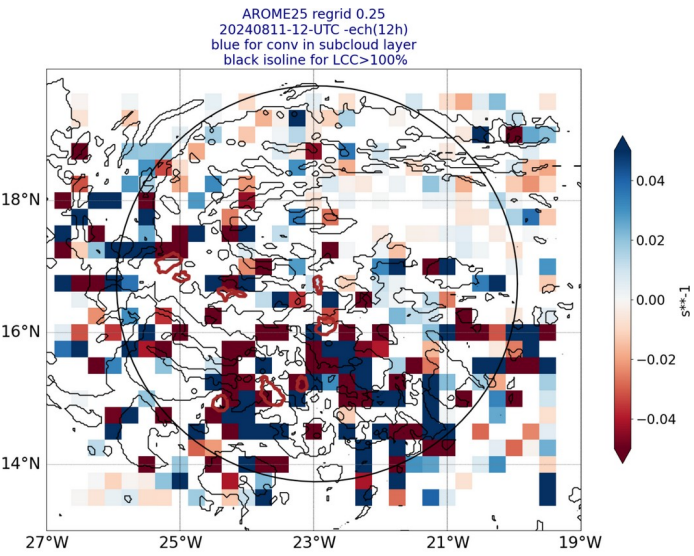


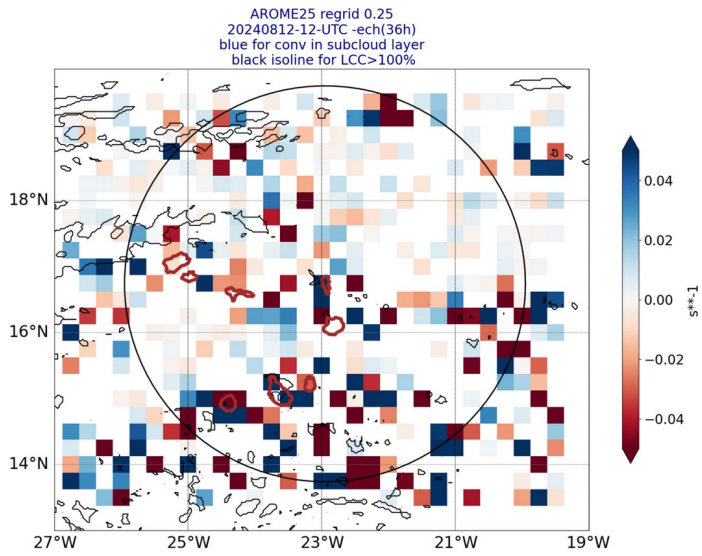
# Smoc

## -blue for conv in subcloud layer-

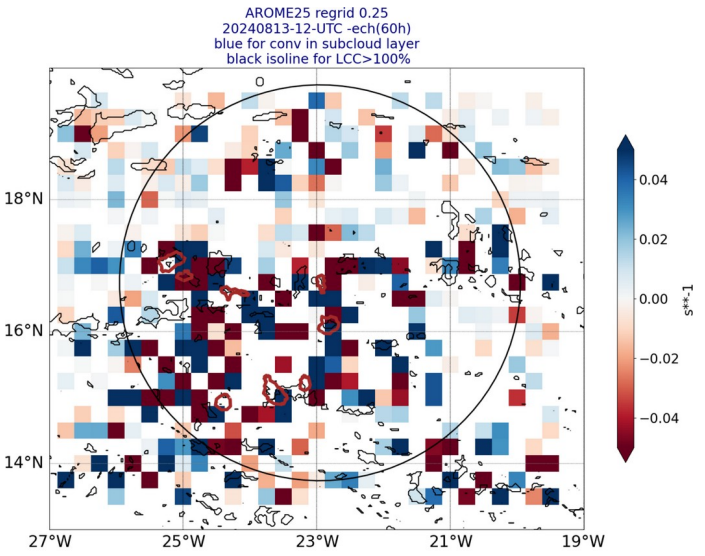
*dark isoline for low cloud cover*




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




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

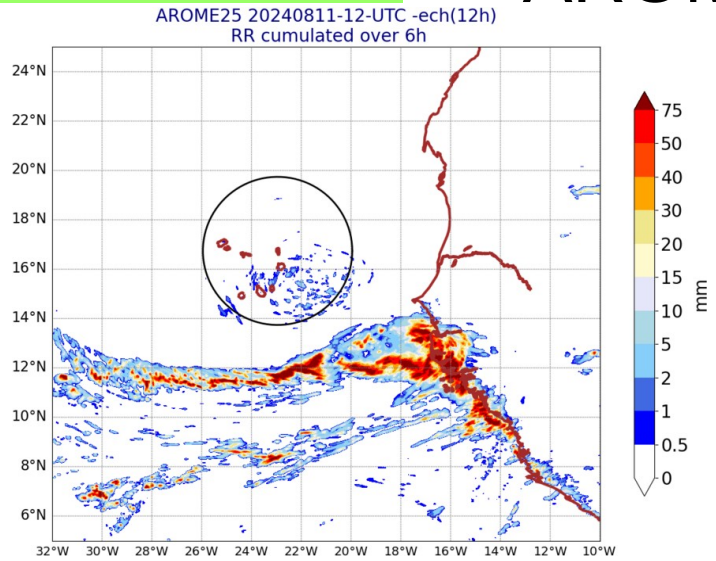


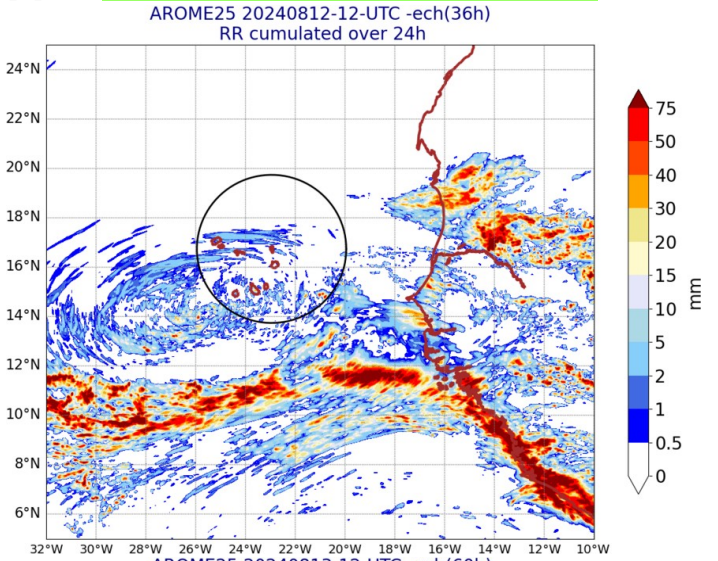

white box where subcloud and cloud layer have same sign of div

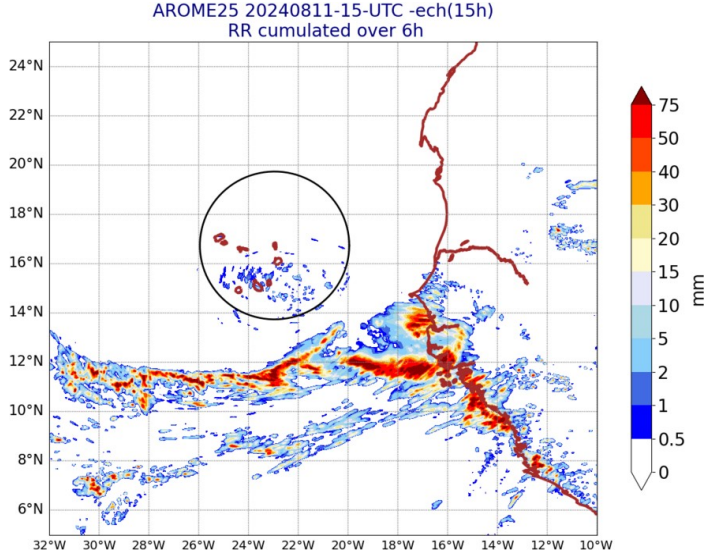
over 6h ech 12h and 15h

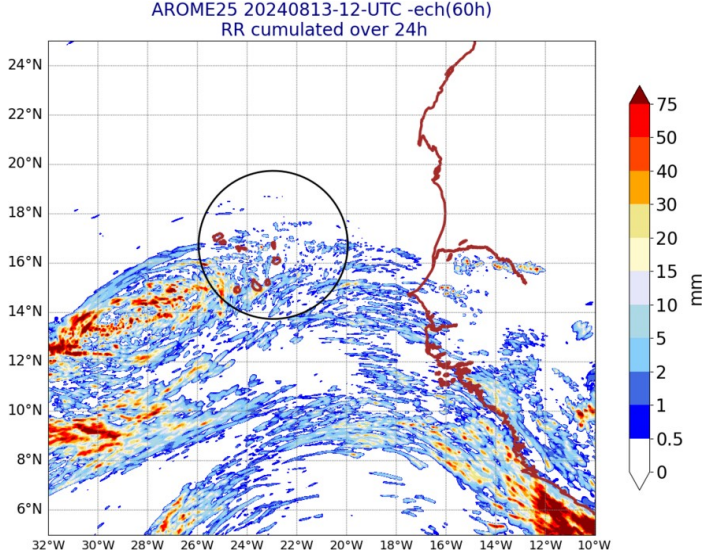
# AROME precipitation

over 24h ech 36h and 60h

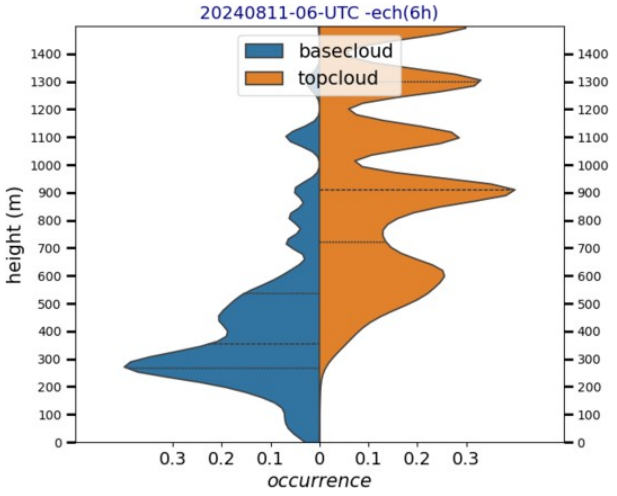


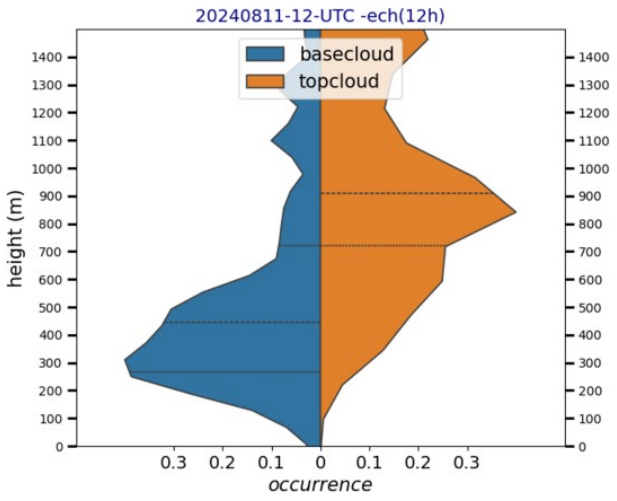



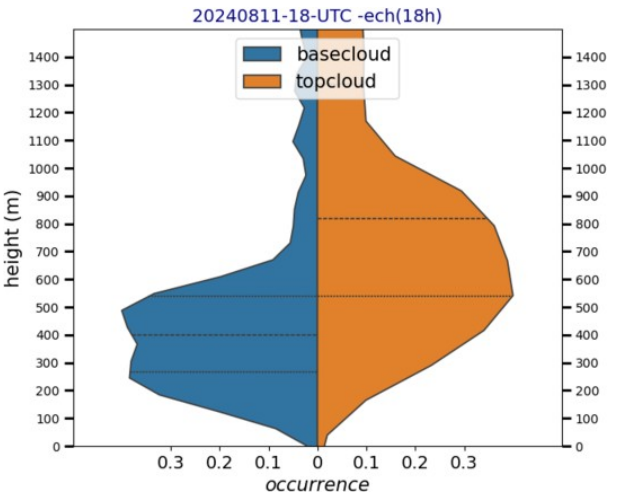



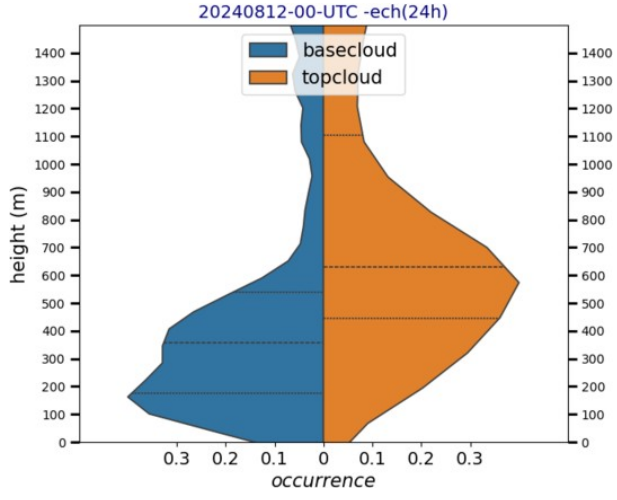



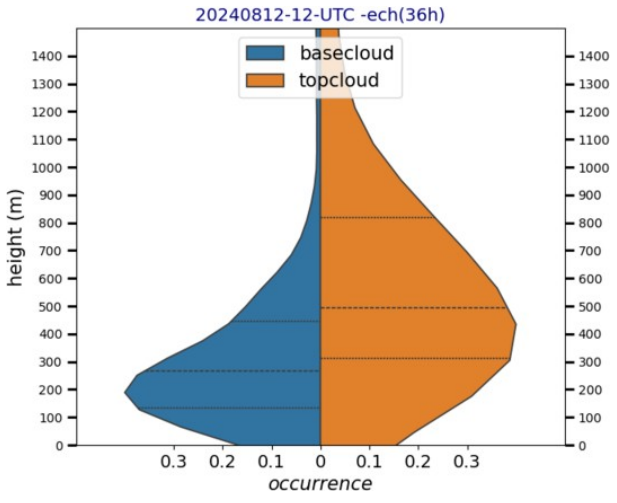
# AROME base and top cloud (mean in the 3° circle)

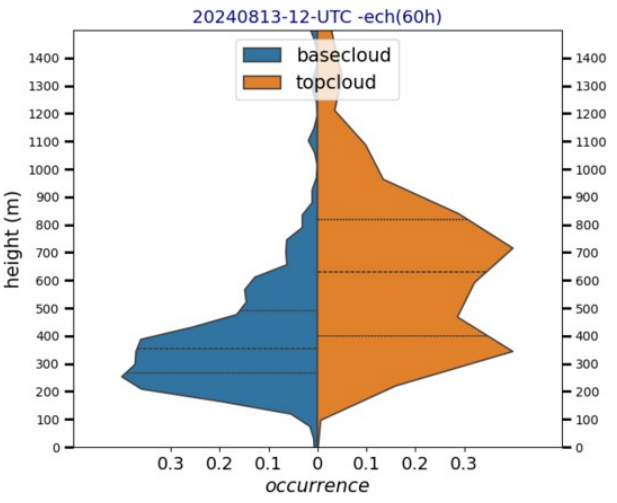


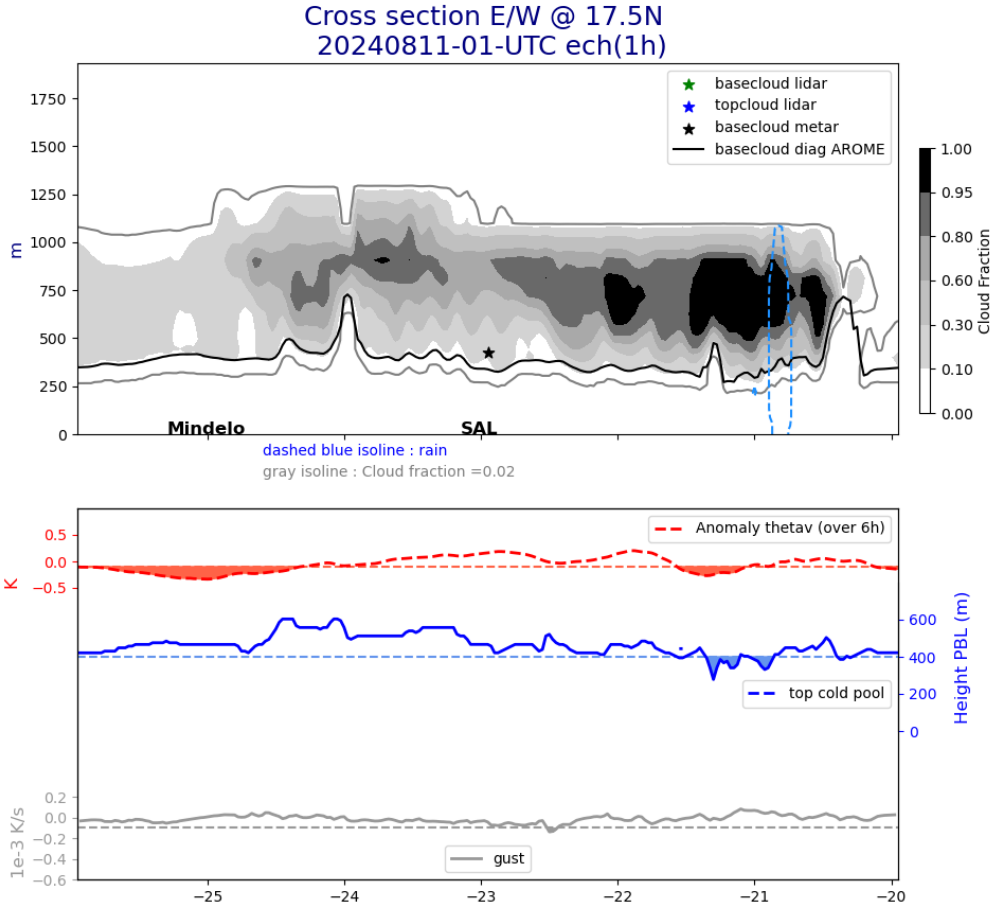



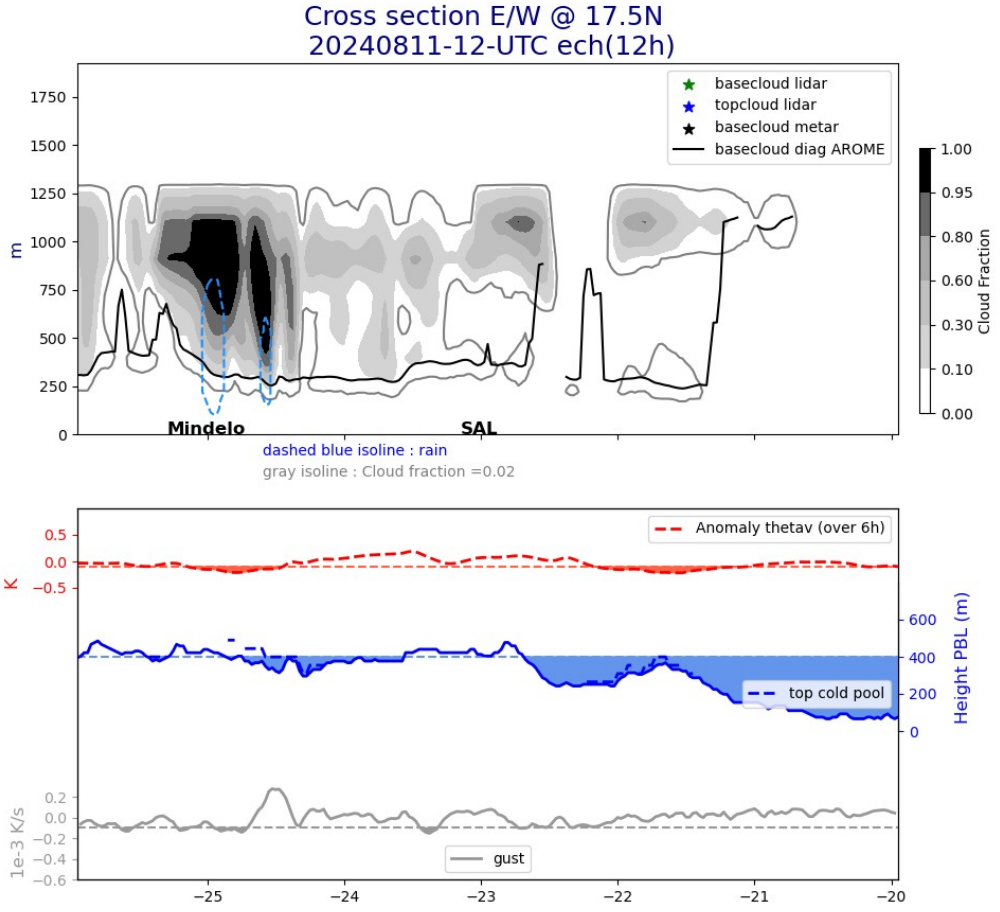



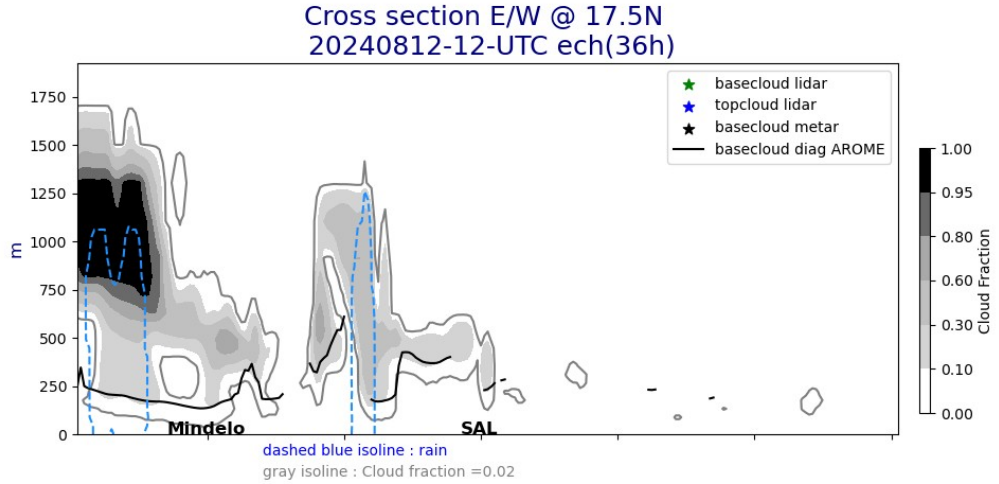



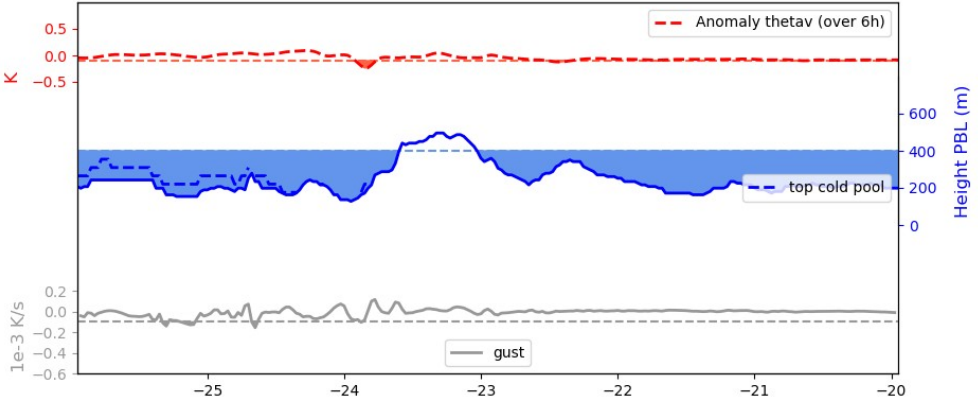
# Lat. cross section @17°5N  fct : 01UTC, 12UTC

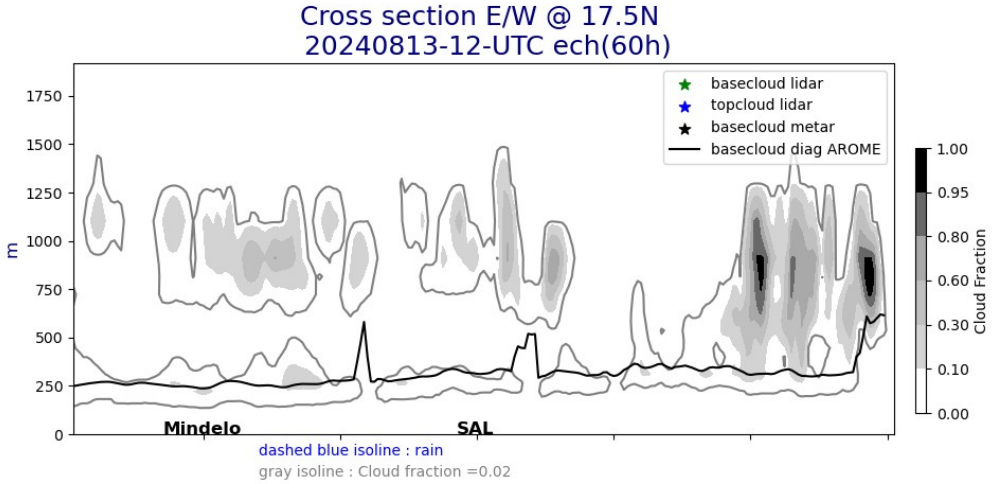


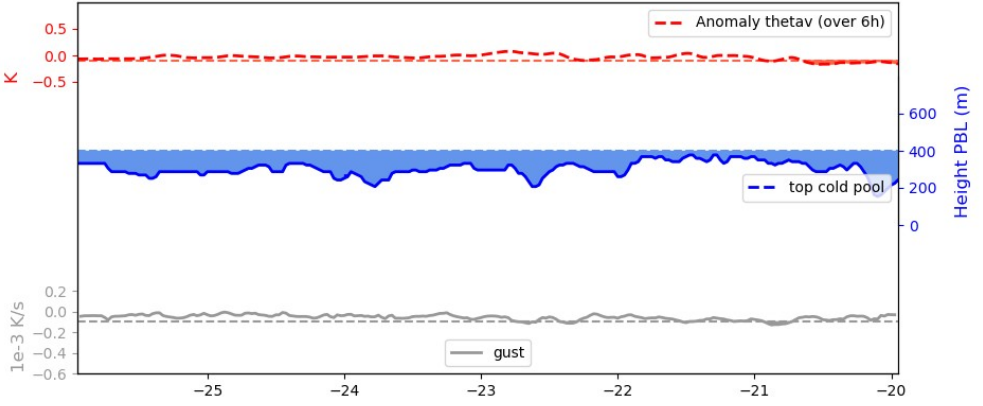



# Lat. cross section @17°5N  fct : J+1 and J+2 @ 12UTC

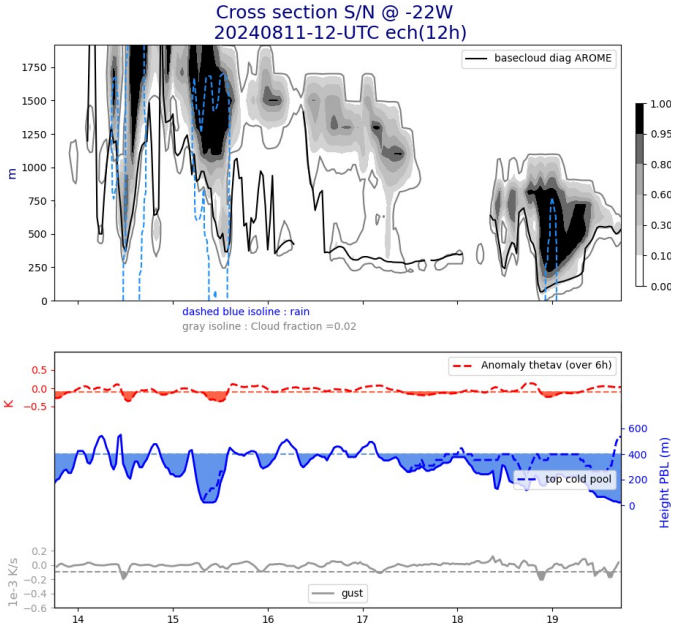


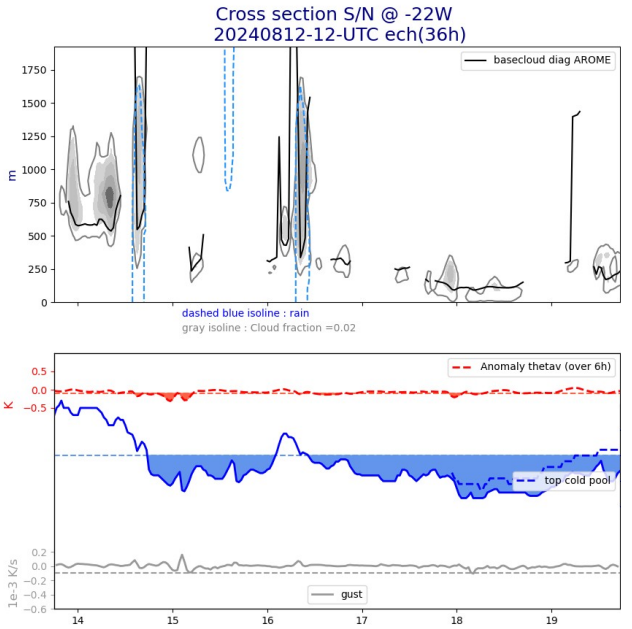



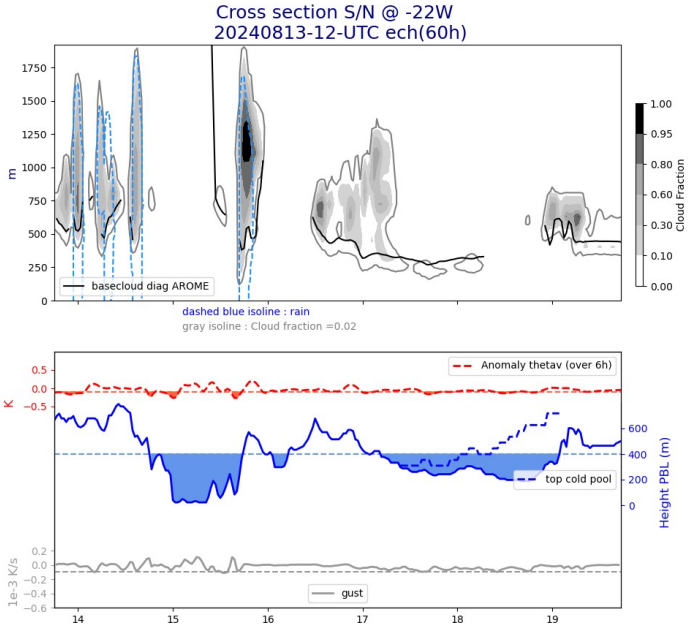



# Lon. cross section @22W  fct : J,J+1, J+2 @ 12 UTC

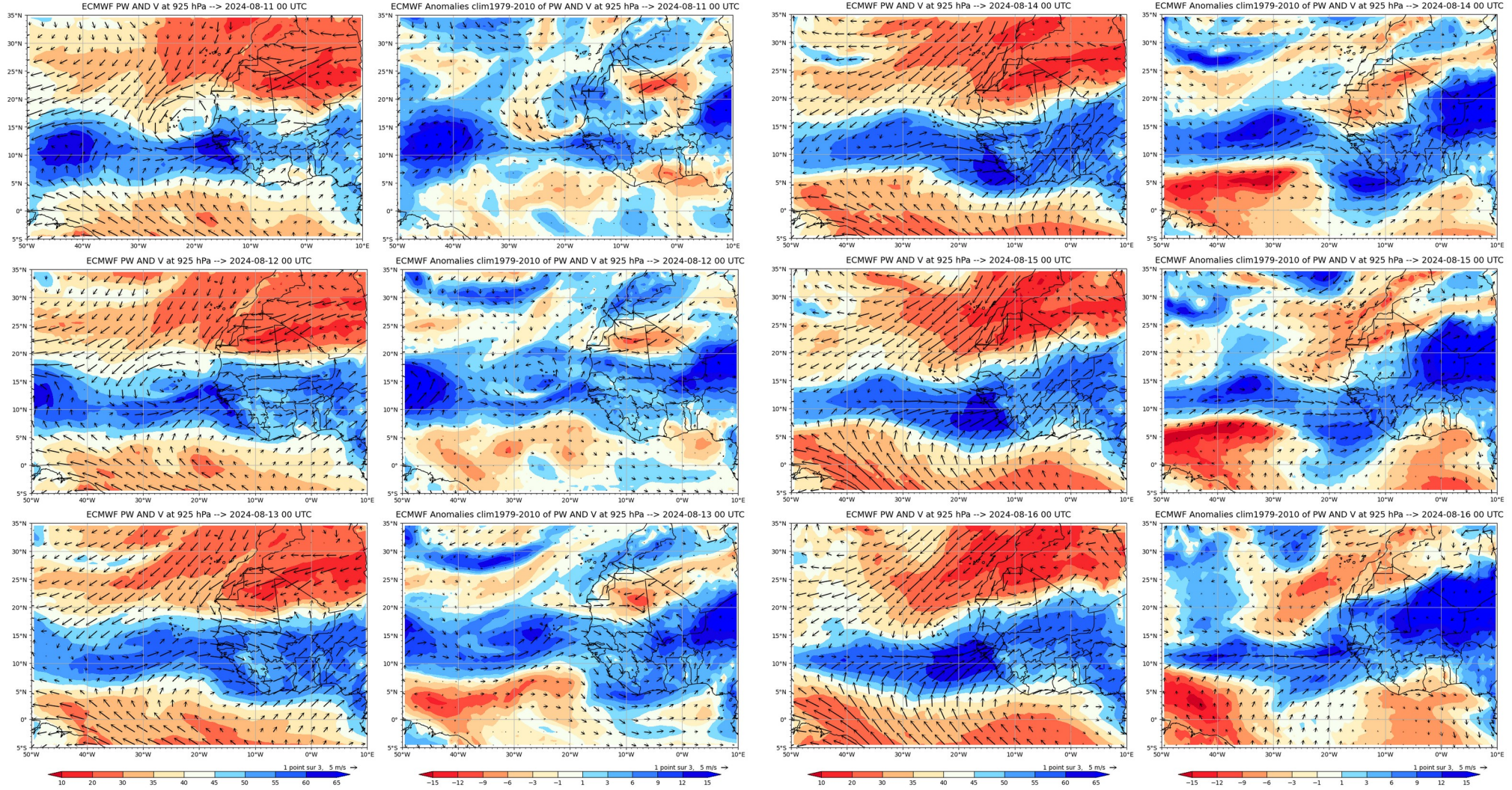


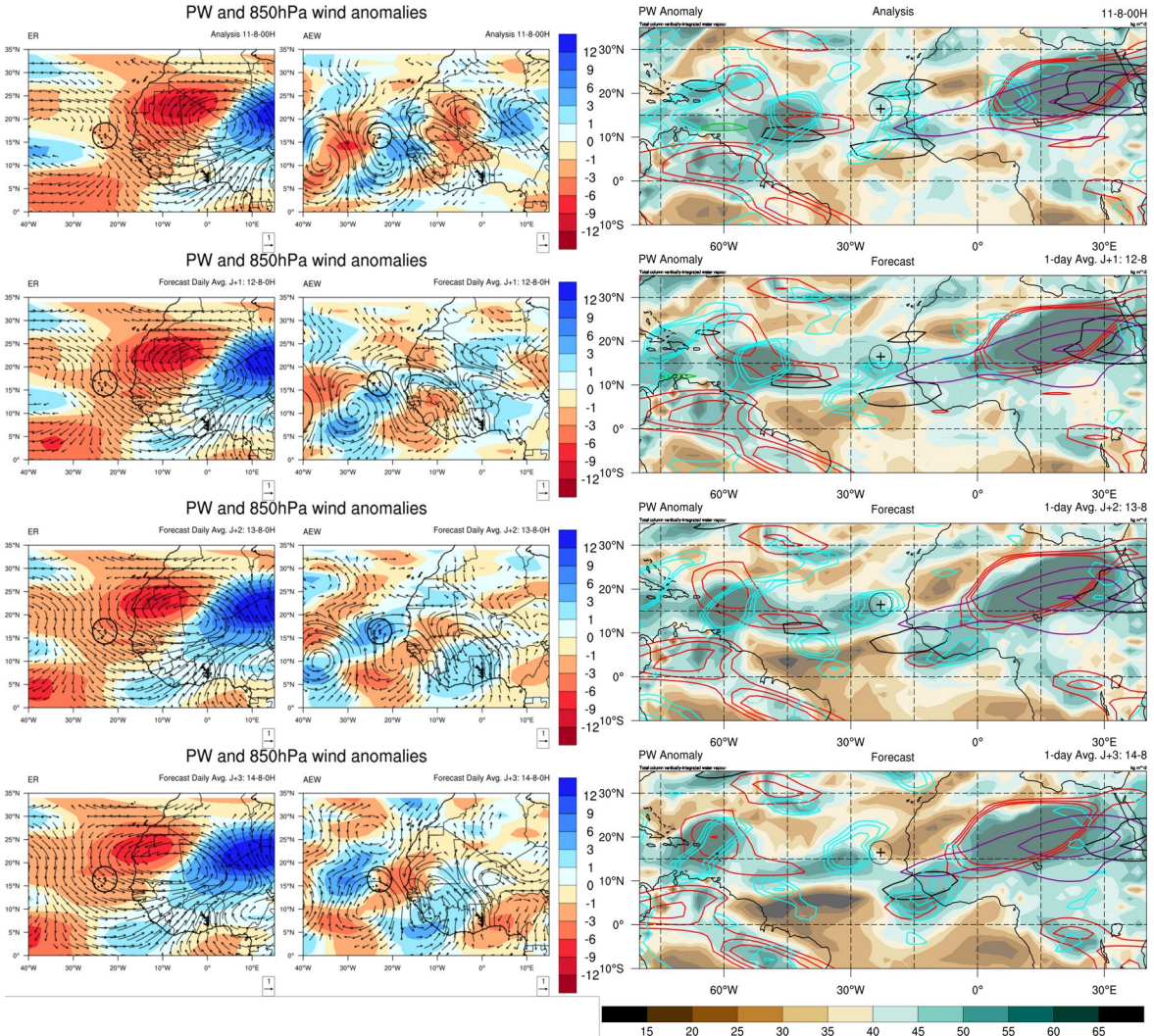



# Week forecast J - J+7

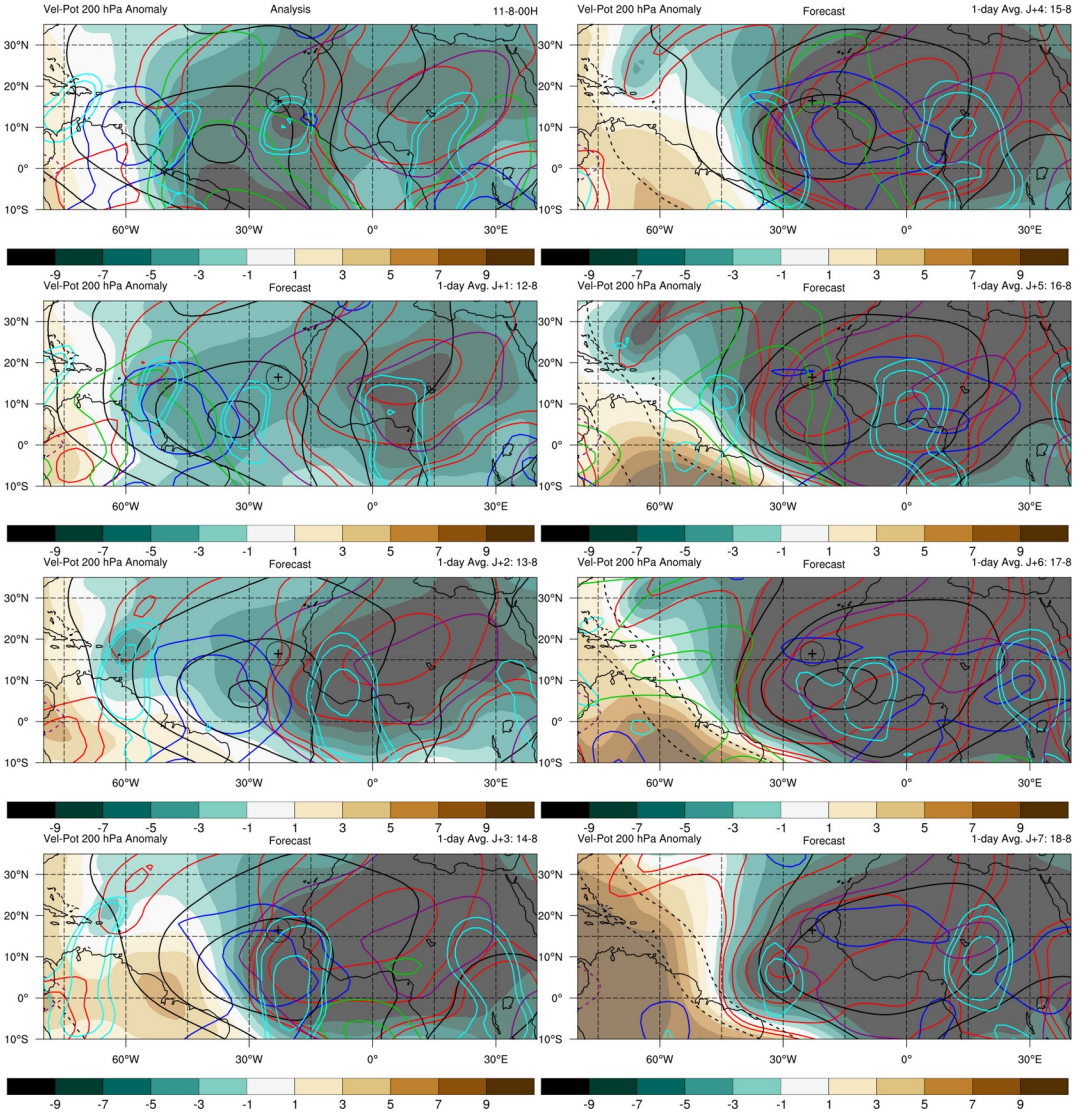
# Daily PW and wind @ 925 hPa – total and anomalies



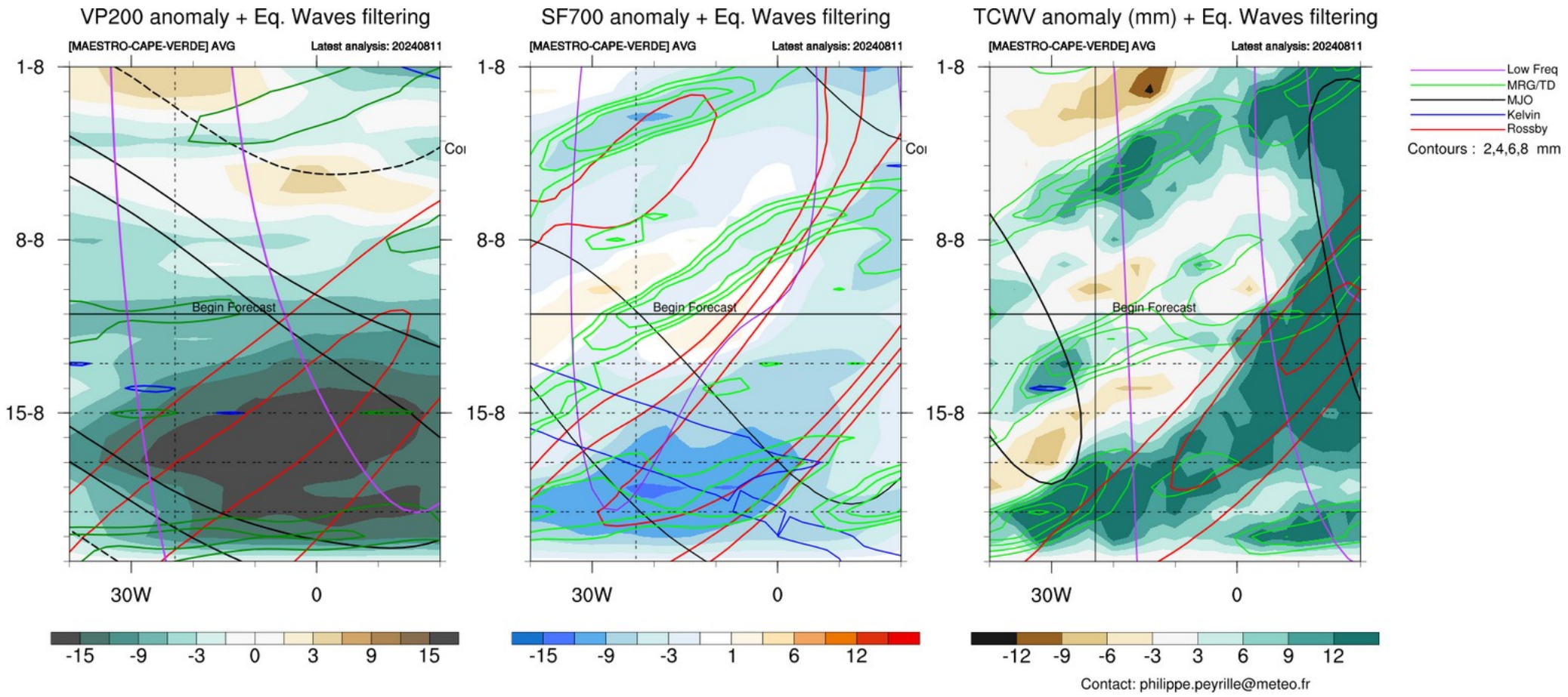
# Decomposition PW/Wind and Waves contours J to J+3



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

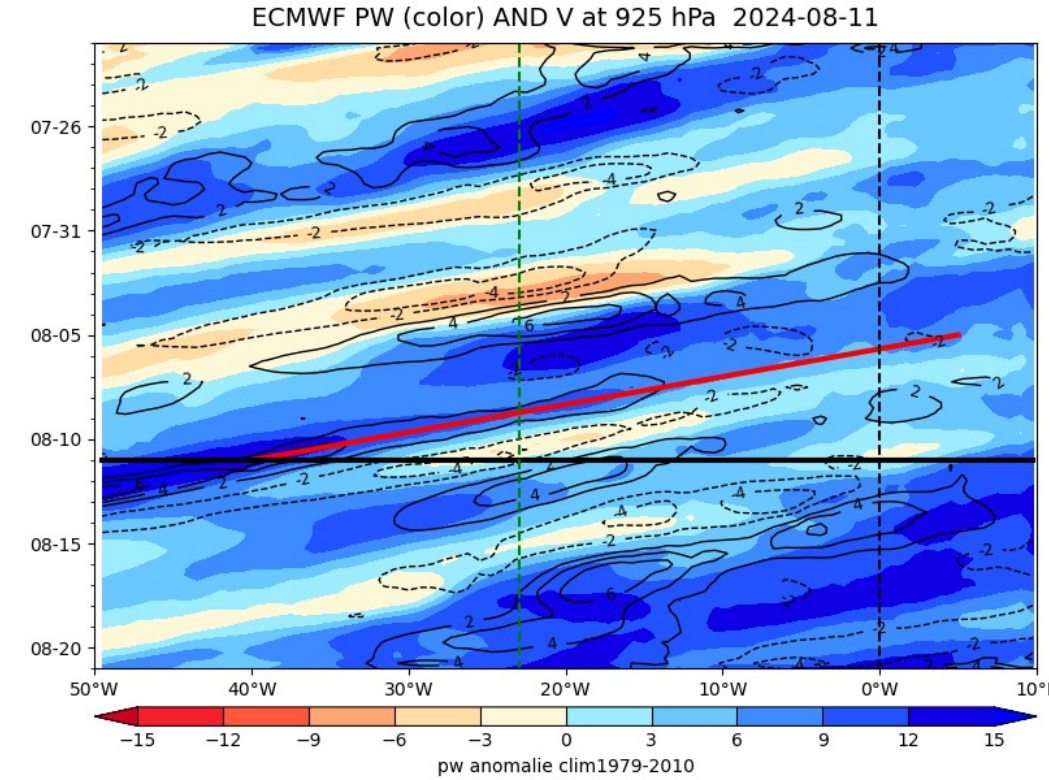


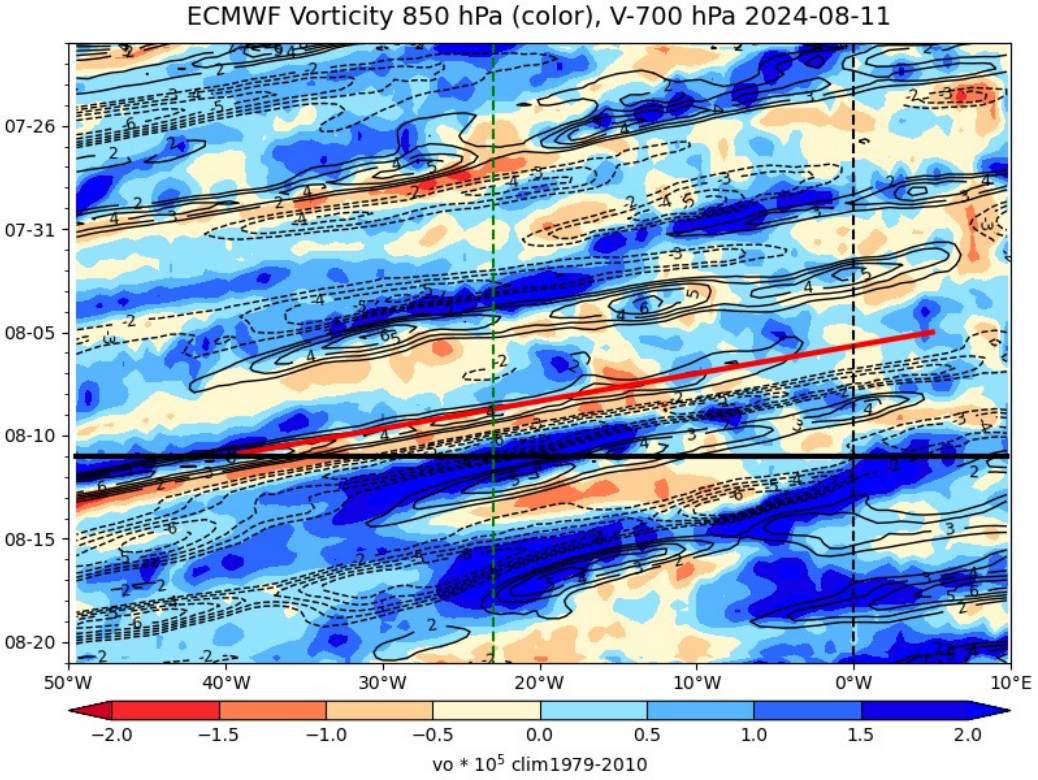
# Equatorial Waves filtering hovmollers



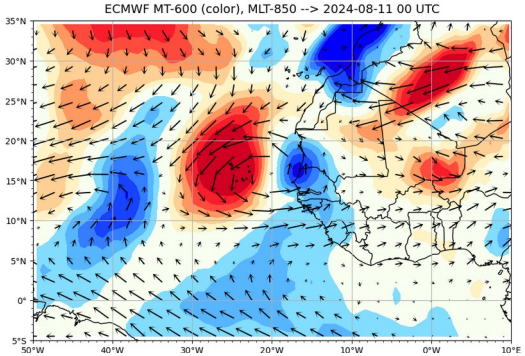
# Hovmoller anomaly

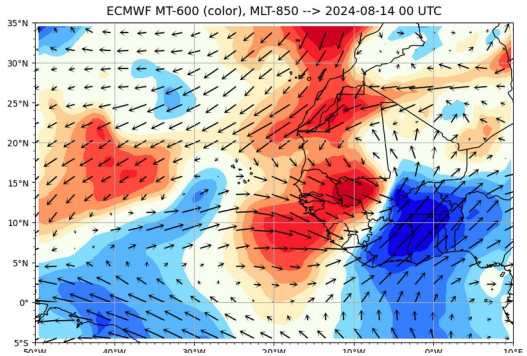
## Precipitable water – vorticity 850hPa

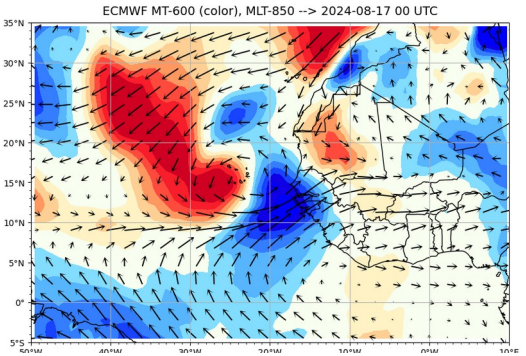


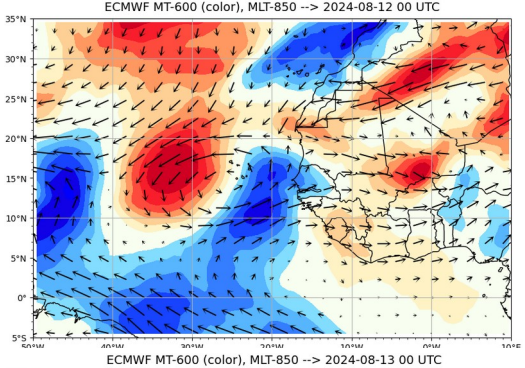



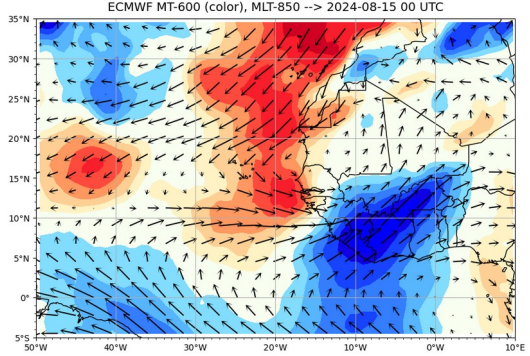
# Monsoon Flow

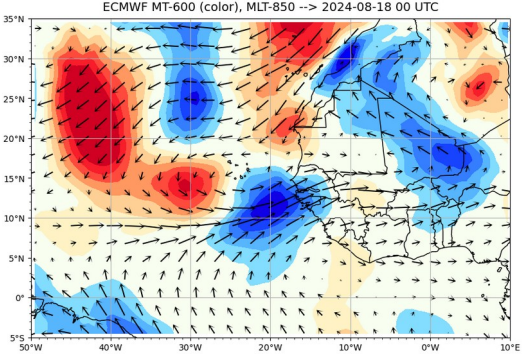


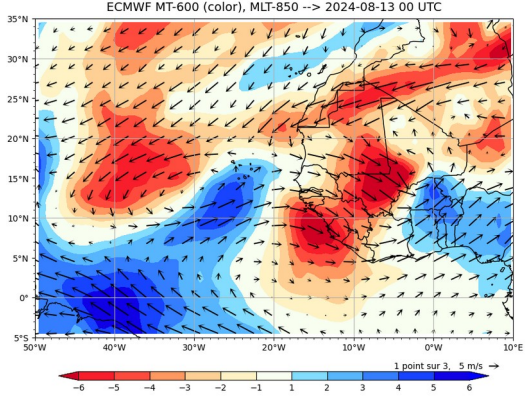



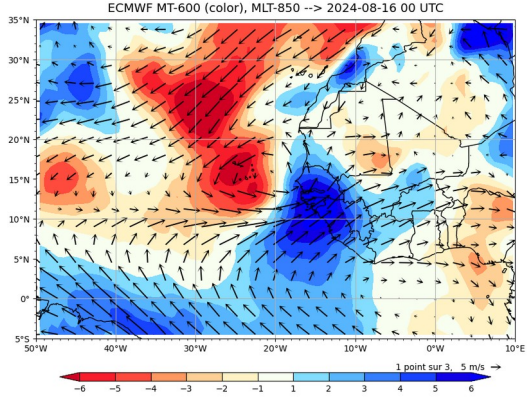



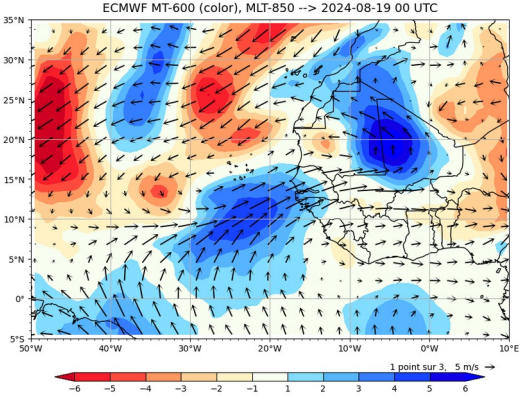



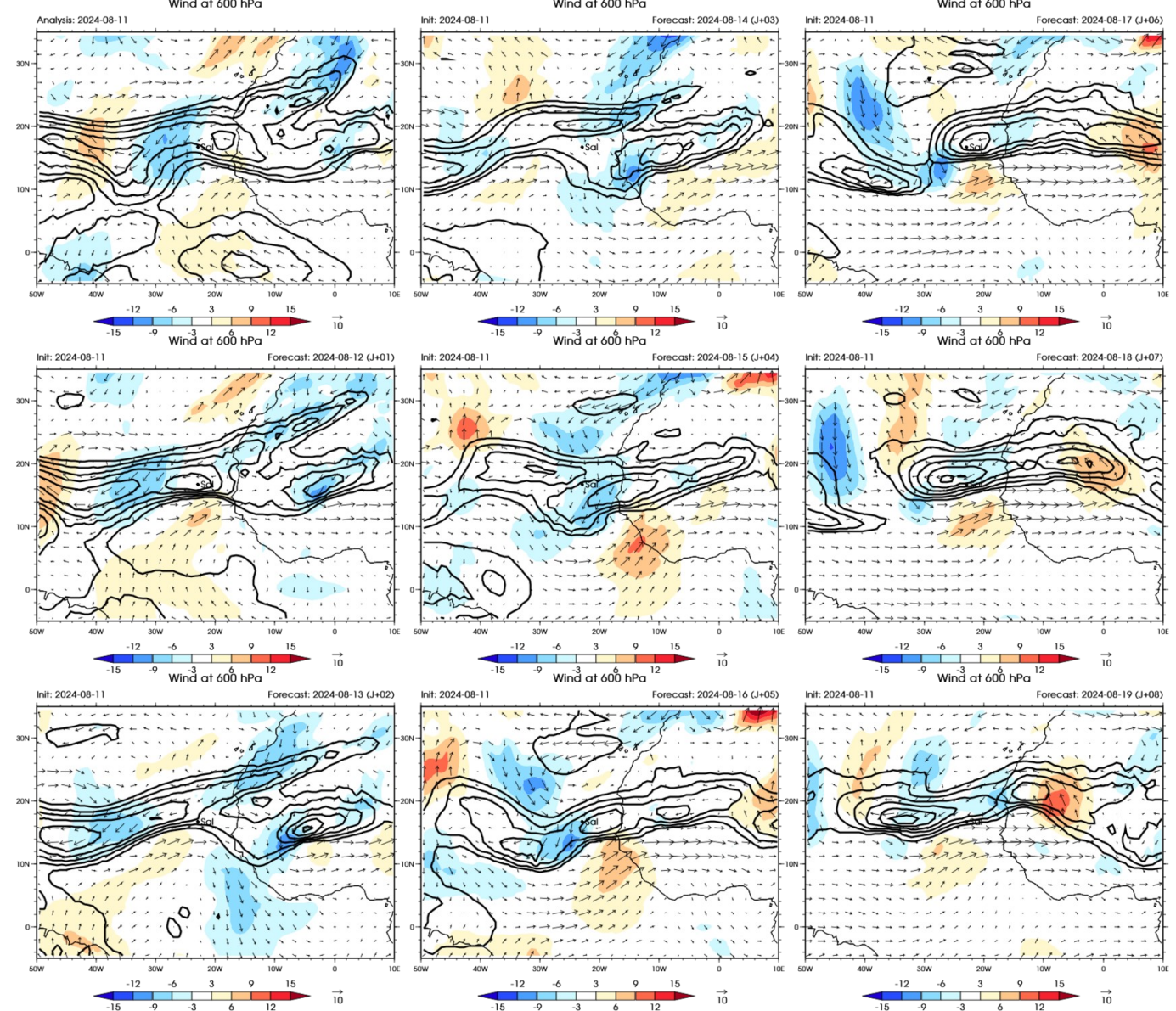



# African Easterly Jet wind 600 hPa



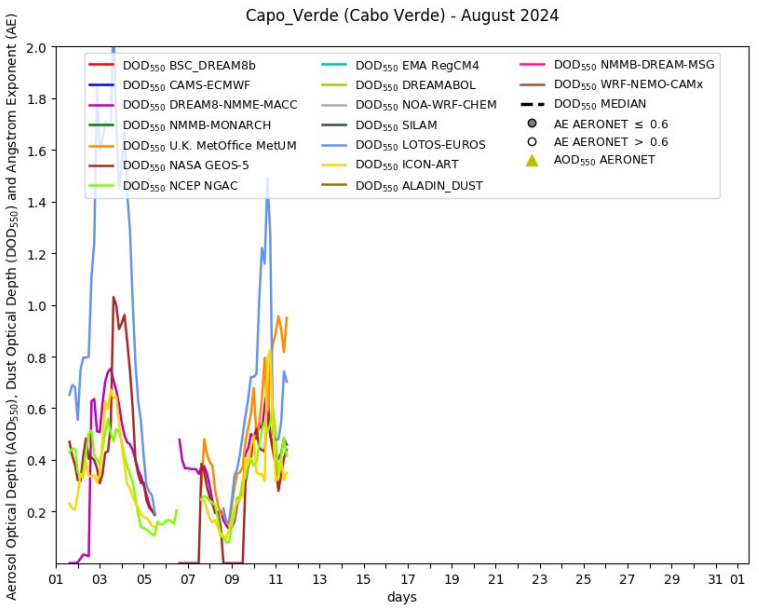
# Dust Observations and Forecast

- Temporal evolution model/Obs at Sal :

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

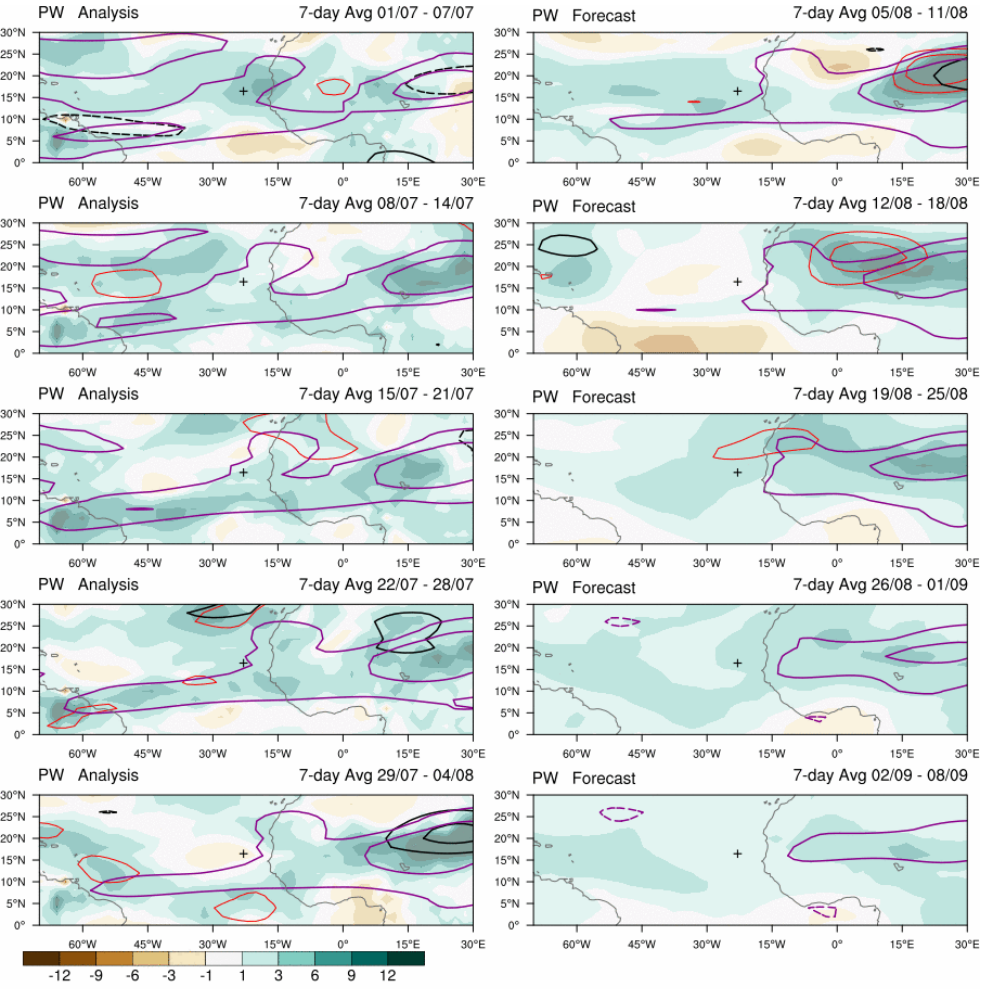
- Ensemble forecast Dust Optical Depth :

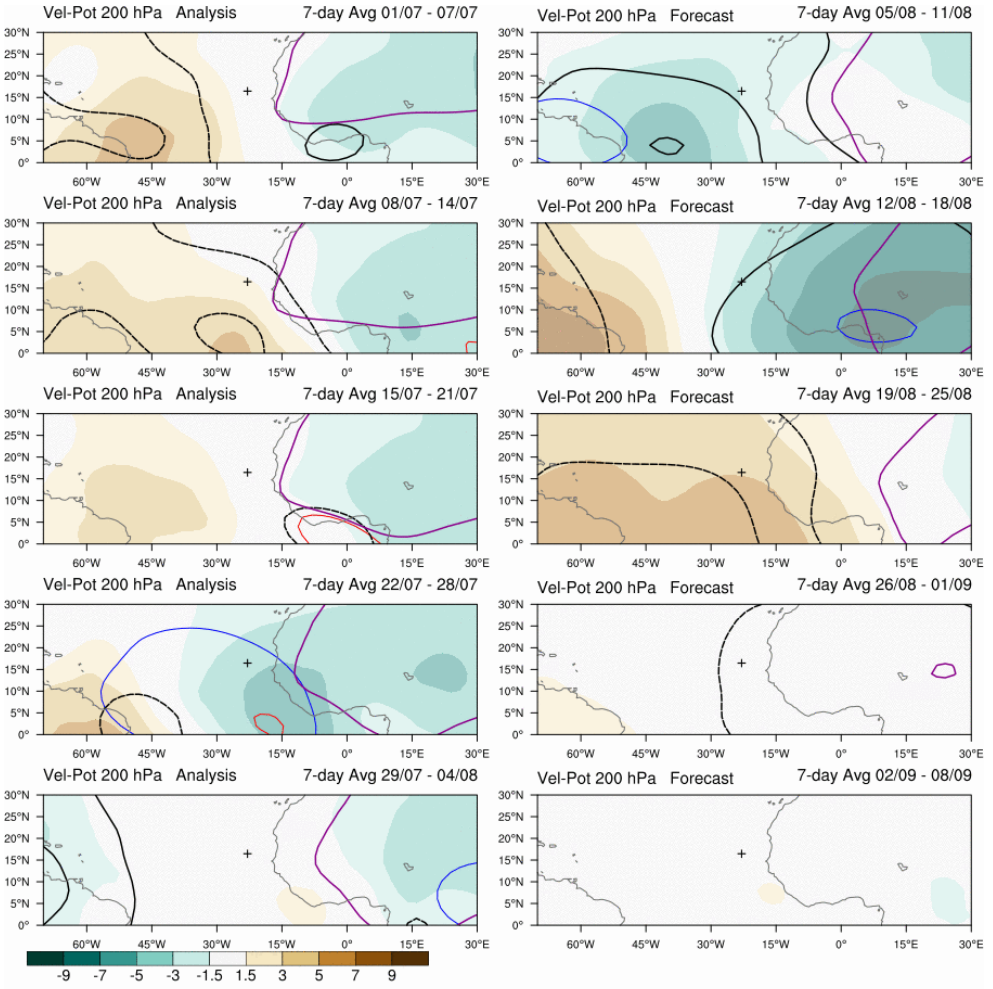
https://sds-was.aemet.es/forecast-products/dust-forecasts/ensemble-forecast



Subseasonnal forecast
(updated once a week)

# 4 weeks forecast PW et VP200




Contours: 2.5, 5, 10, mm

MRG/TD
Kelvin
Rossby
MJO
Low

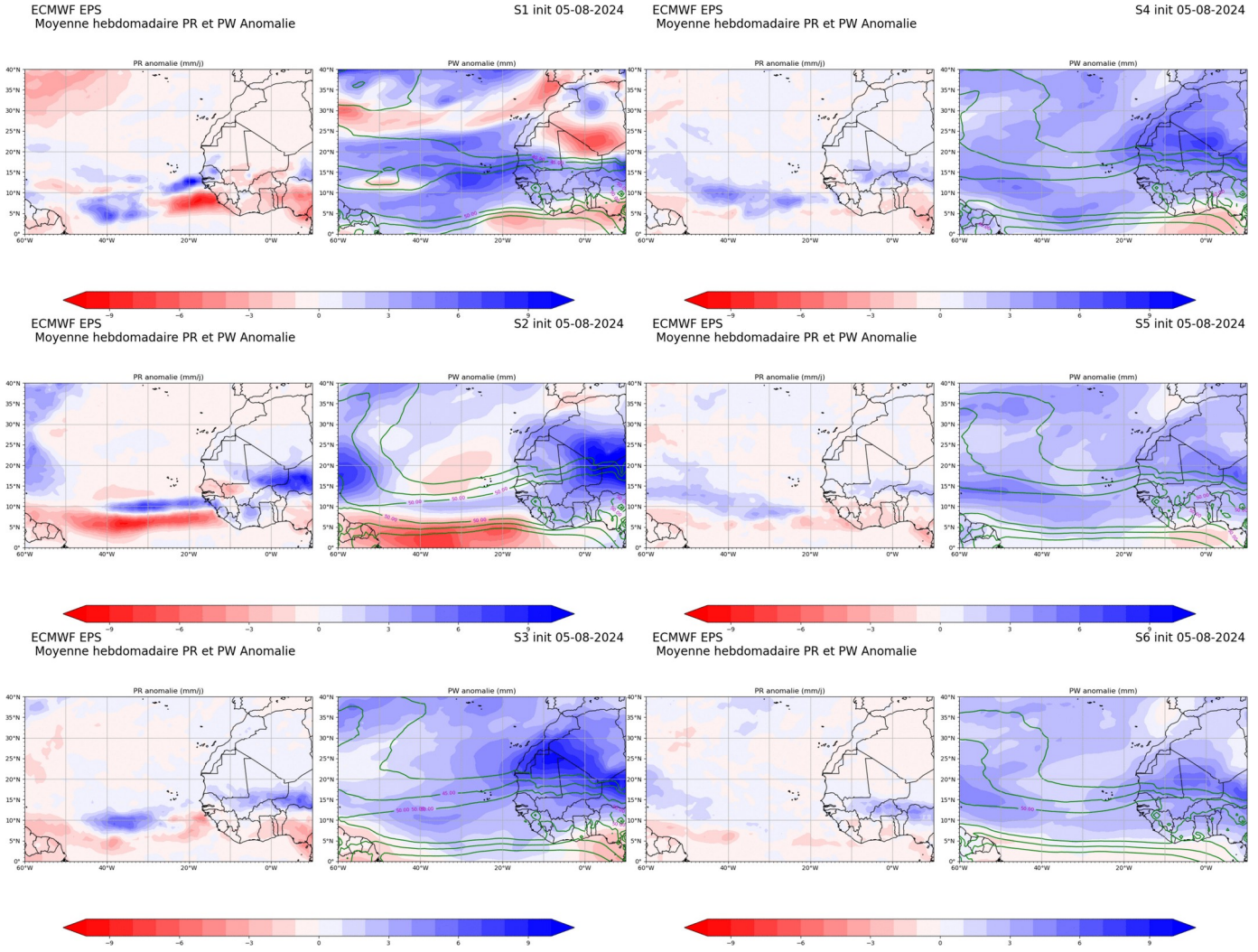
contact: Philippe Peyrille
philippe.peyrille@meteo.fr

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

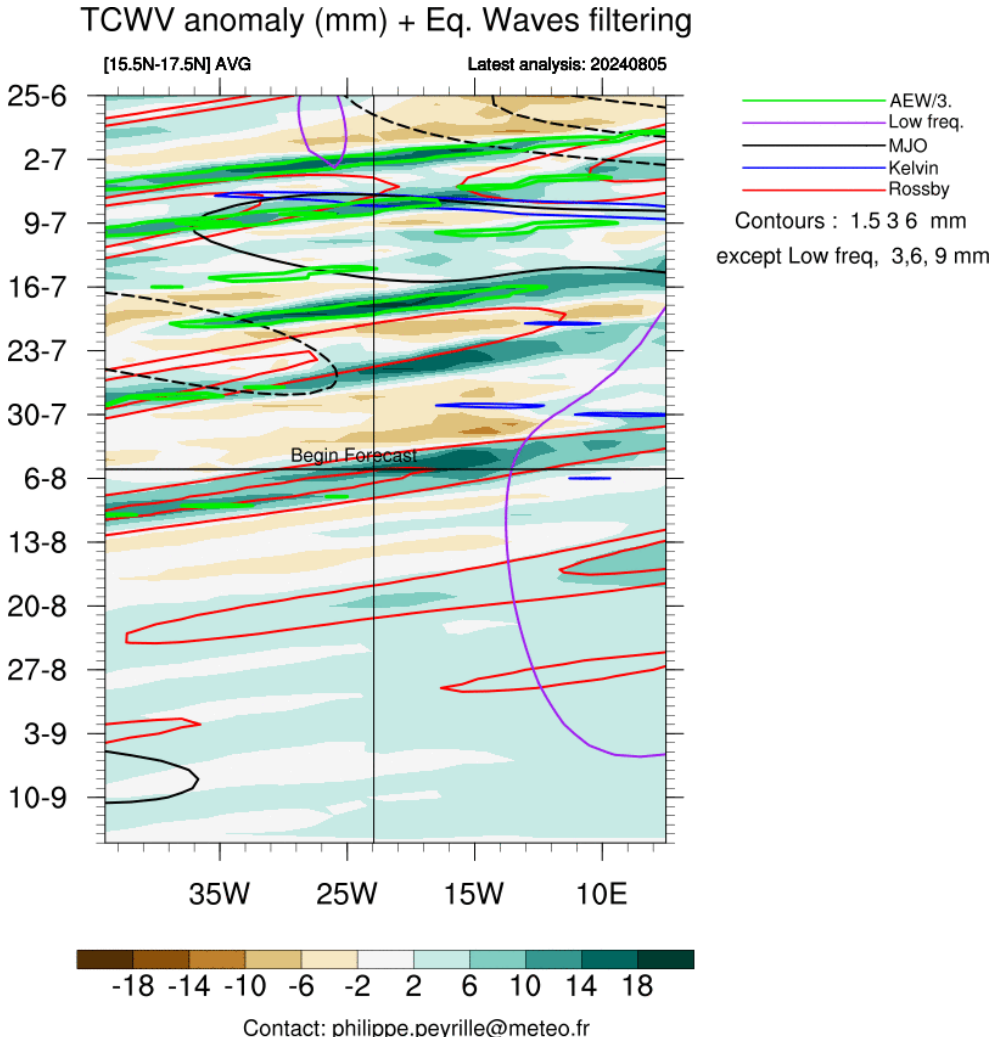
MRG/TD
Kelvin
Rossby
MJO
Low

contact: Philippe Peyrille
philippe.peyrille@meteo.fr

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

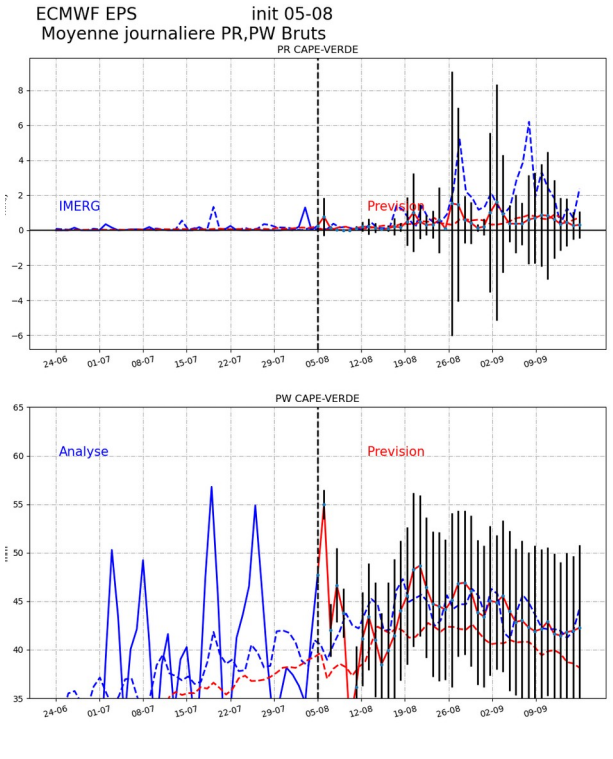


# Hovmoller forecast PW over 4 weeks

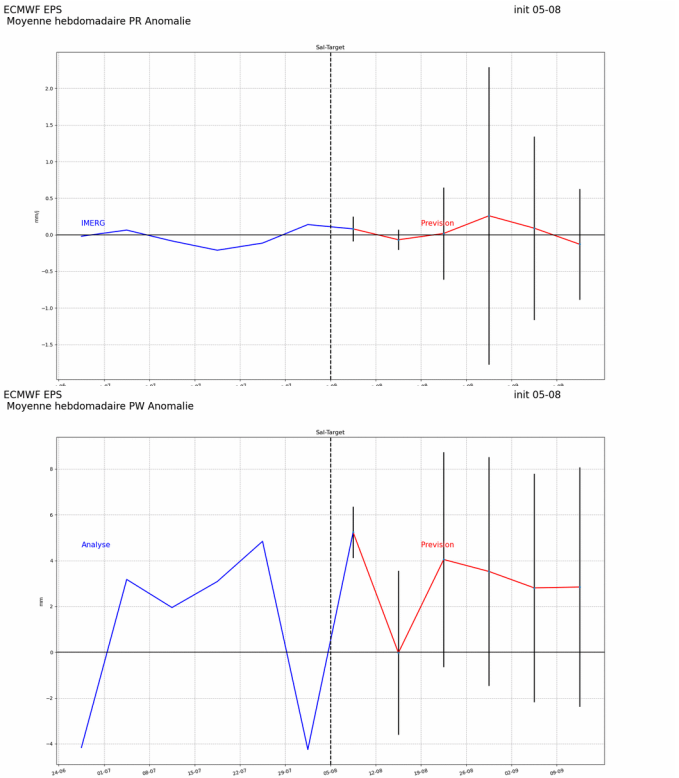


# Temporal evolution PR, PW (+ EKE)

## 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 | | | | | | | | |