

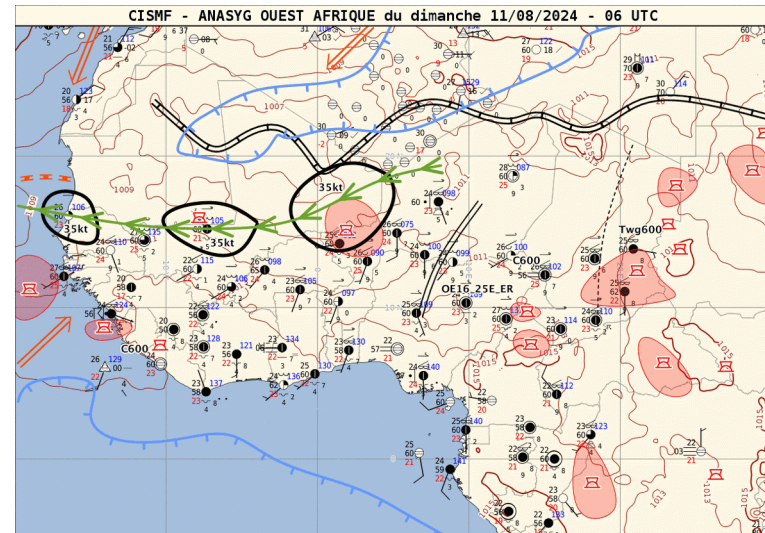
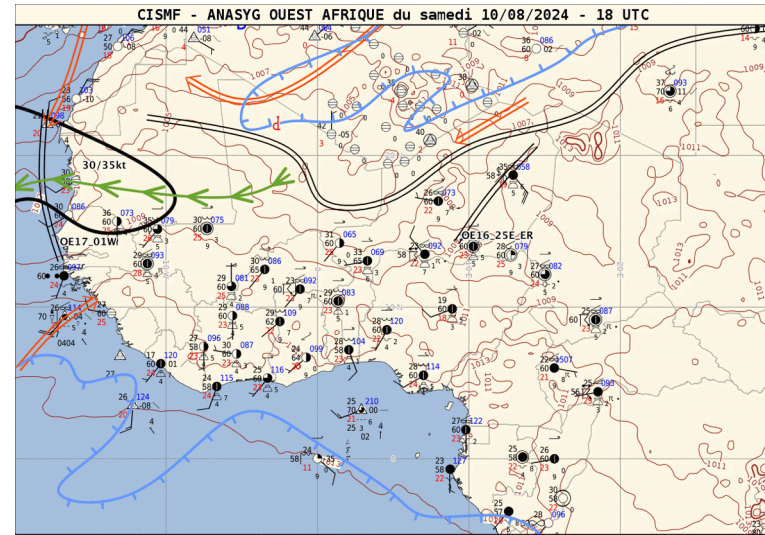
# DAILY SUMMARY MAESTRO

Four parts :

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

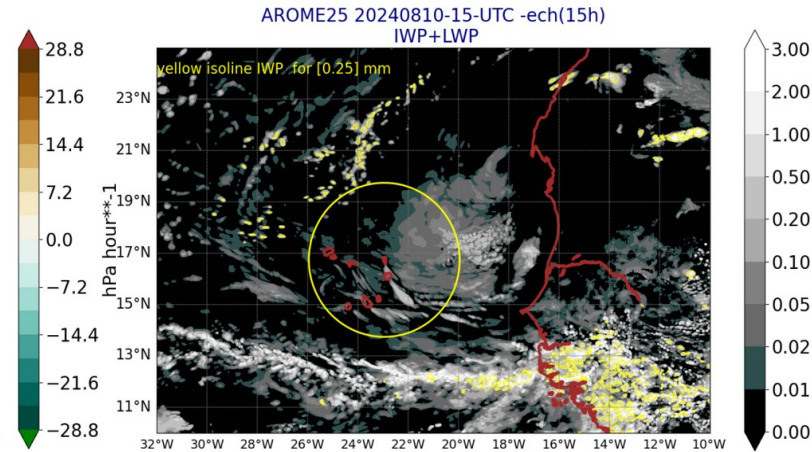
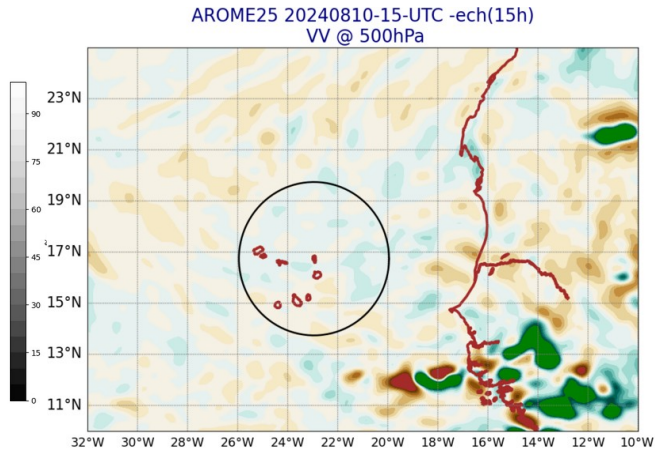
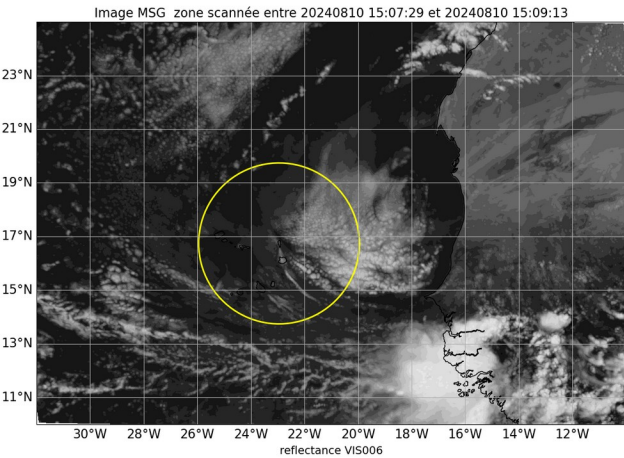
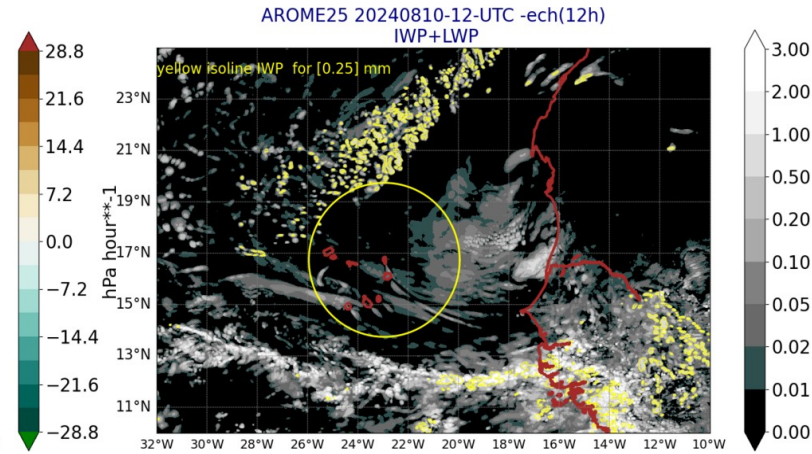
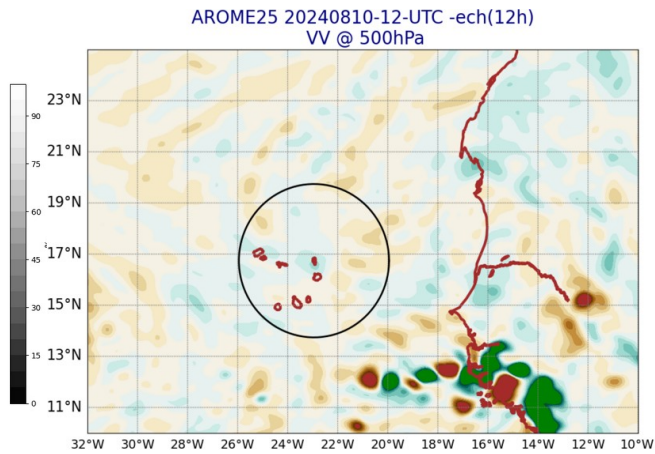
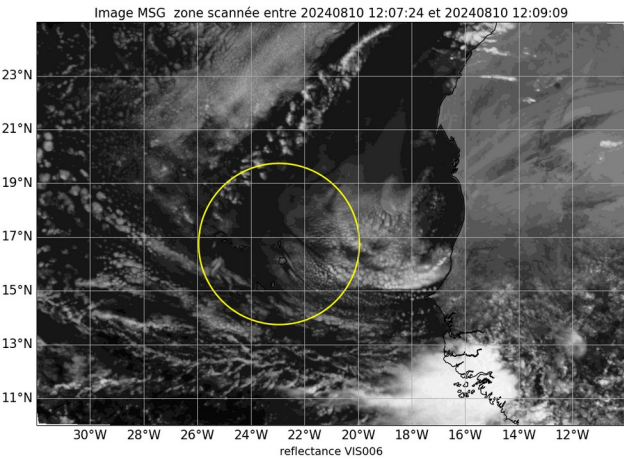
# Anasyg J-1 12 UTC et J 00 UTC

# Anasyg J-1 18 UTC et J 06 UTC



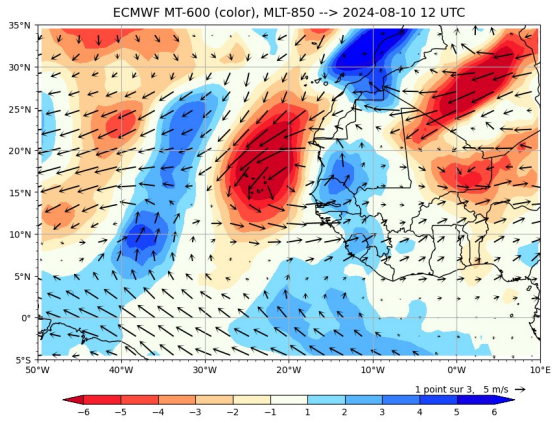
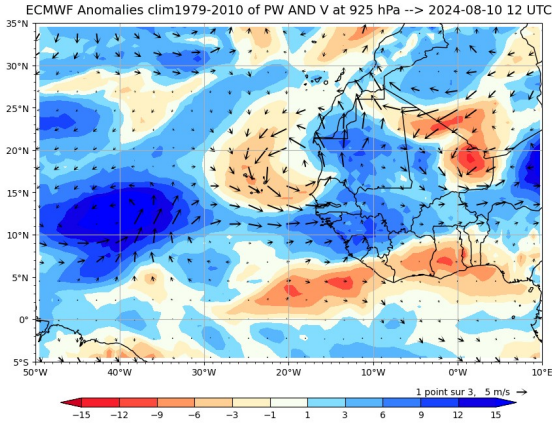
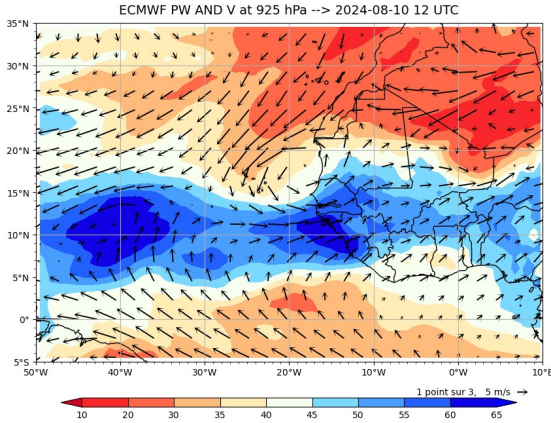
# Image MSG Visible J-1 12 and 15 UTC

# Arome J-1 12 and 15 UTC

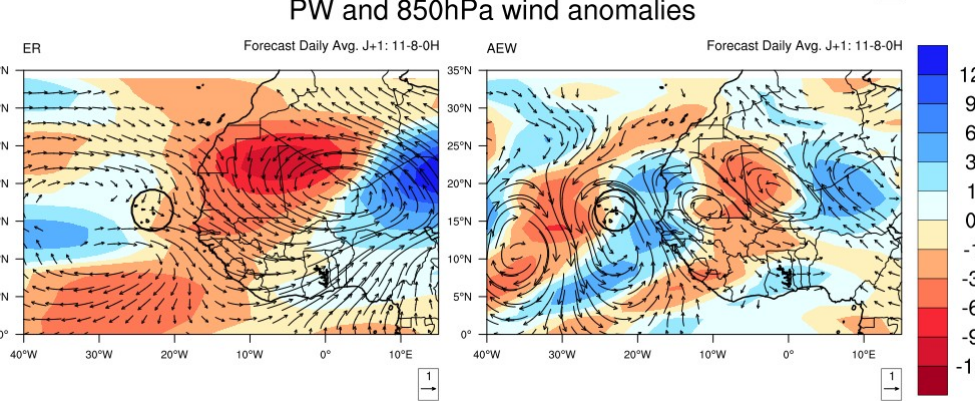
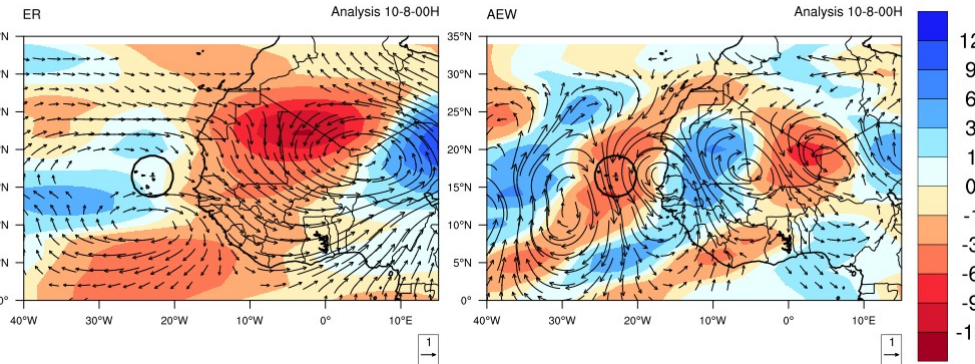




# Precipitable Water – PW anomaly J-1 12UTC



# Waves J-1 00 UTC and J 00UTC Equatorial Rossby - African Easterly Waves PW and 850hPa wind anomalies



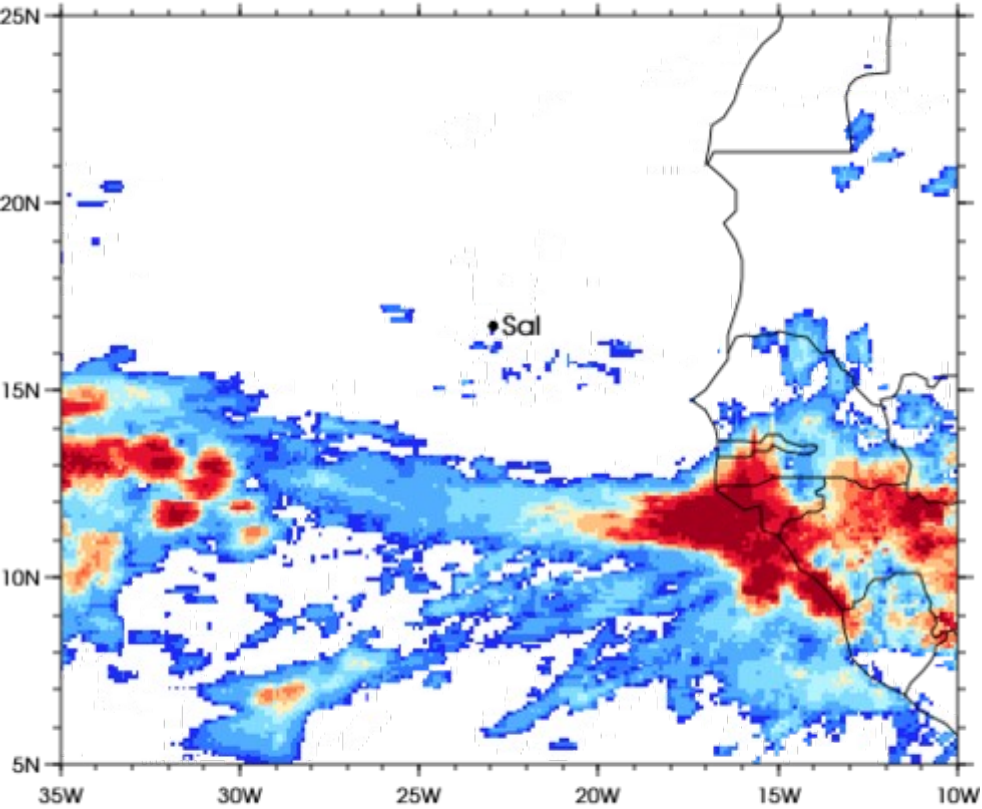


# Precipitation IMERG and AROME J-1

3IMERGHHE GPM IMERG Early Precipitation

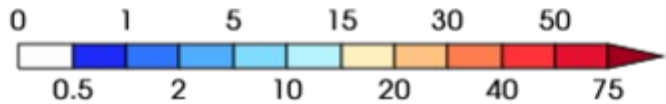
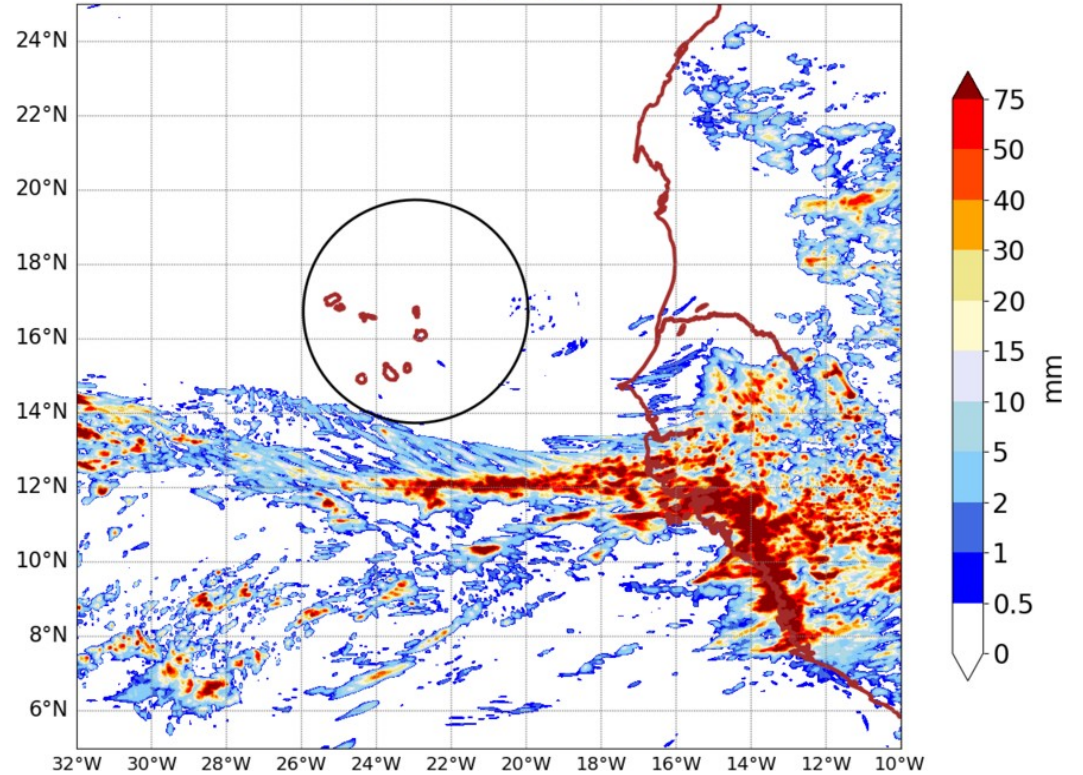
Daily accumulated: 2024-08-10

Units: mm/day



AROME25 20240811-00-UTC -ech(24h)

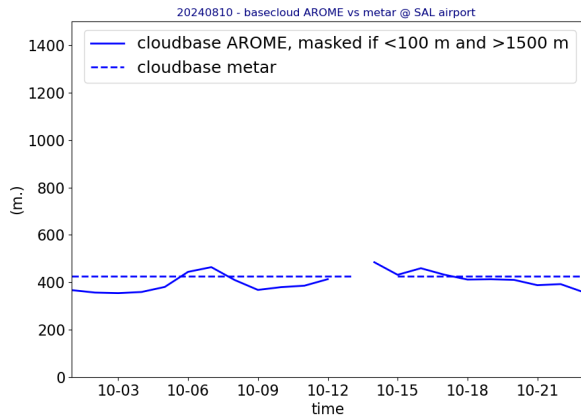
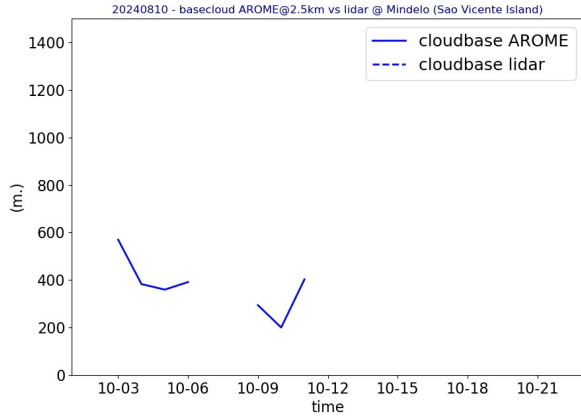
RR cumulated over 24h



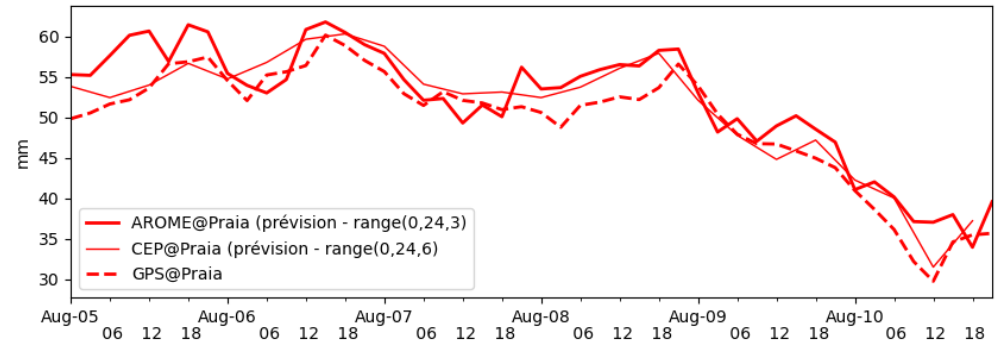
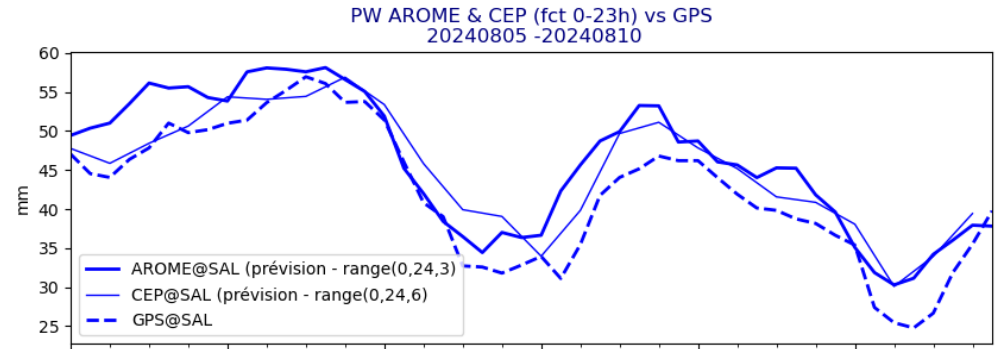
mm

# OBSERVATIONS J-1

Lidar@ mindelo  
metar@sal



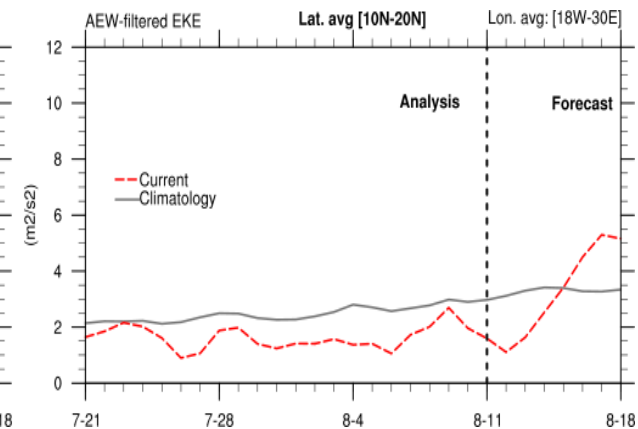
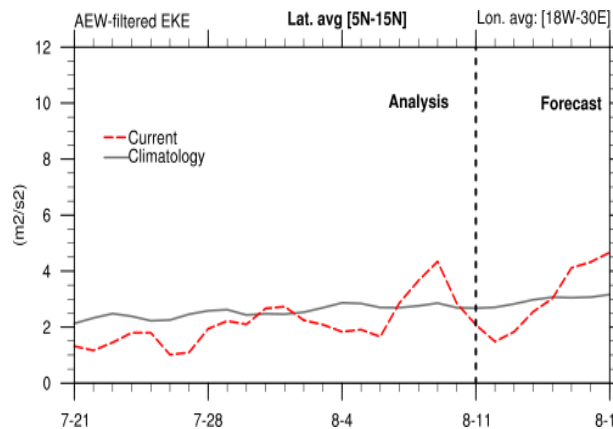
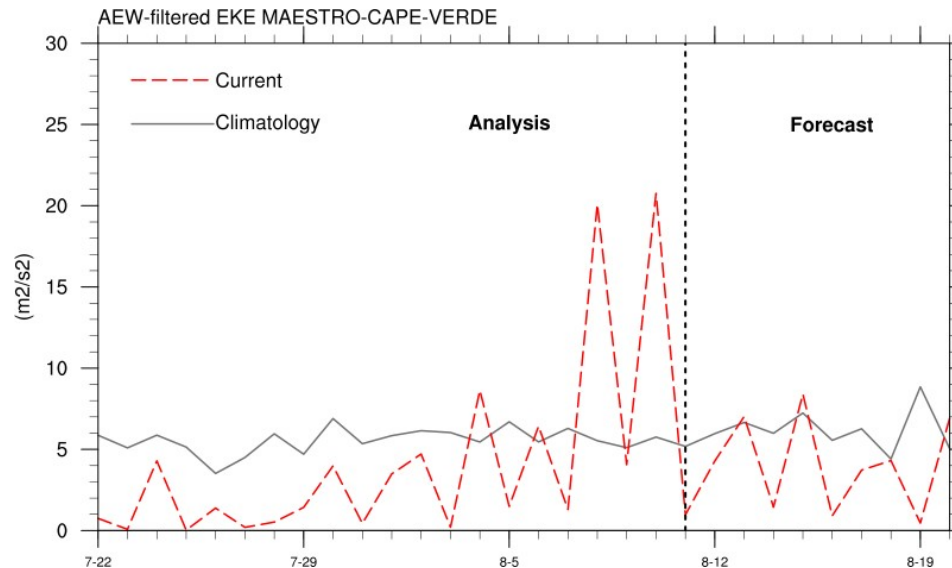
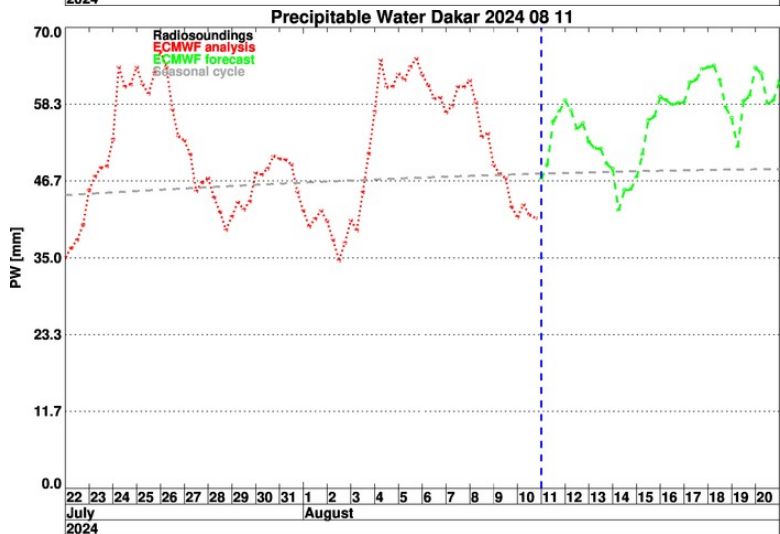
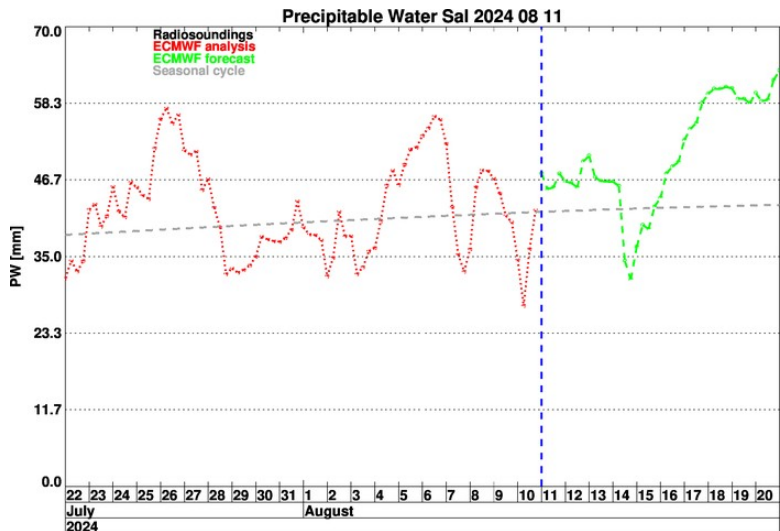
GPS @ Sal  
GPS @ Praia





Short term forecast J - J+36h

# Temporal evolution PW Sal et Dakar + EKE

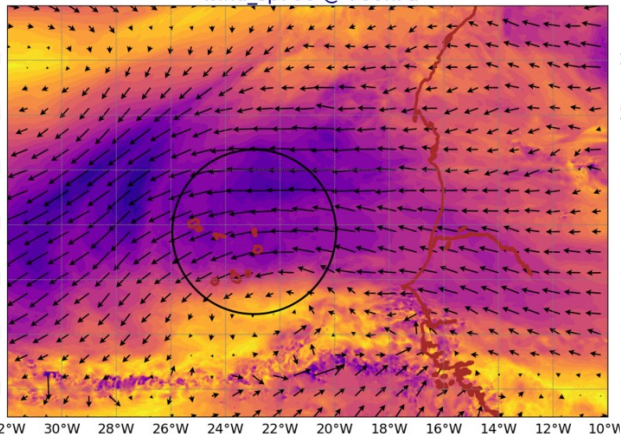




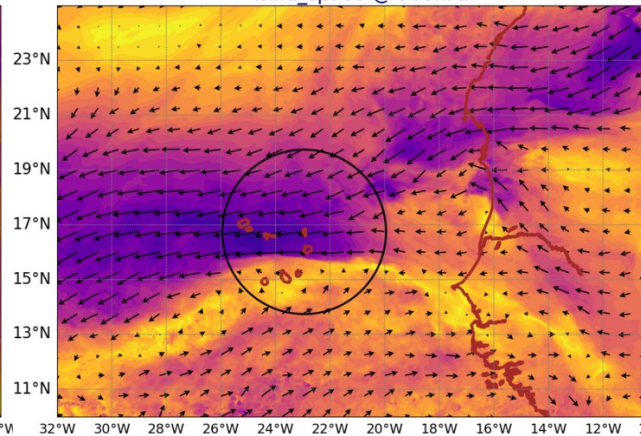
# AROME Wind @ 700 hPa

## AROME Wind @ 920 hPa

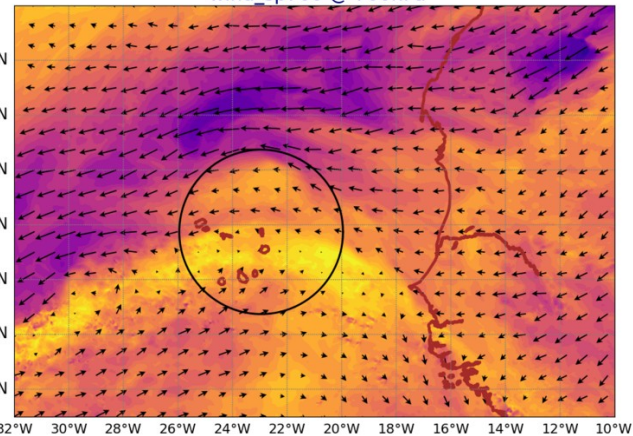
AROME25 20240811-12-UTC -ech(12h)  
wind\_sp700 @ 700hPa



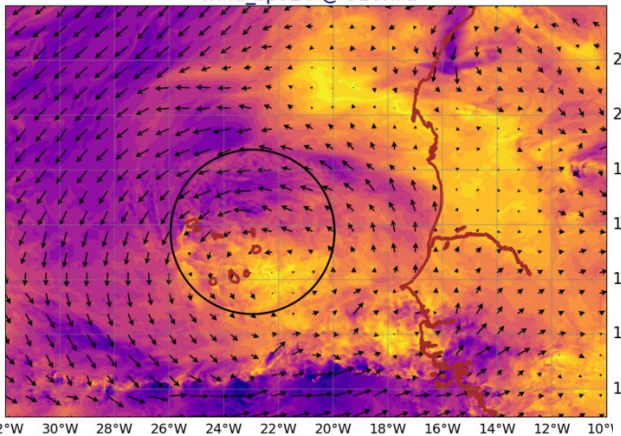
AROME25 20240812-12-UTC -ech(36h)  
wind\_sp700 @ 700hPa



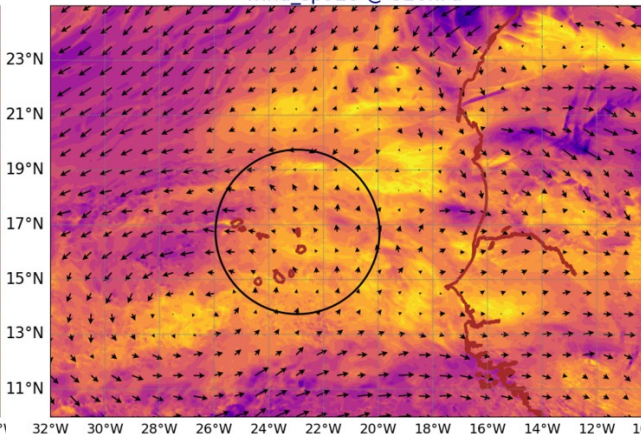
AROME25 20240813-12-UTC -ech(60h)  
wind\_sp700 @ 700hPa



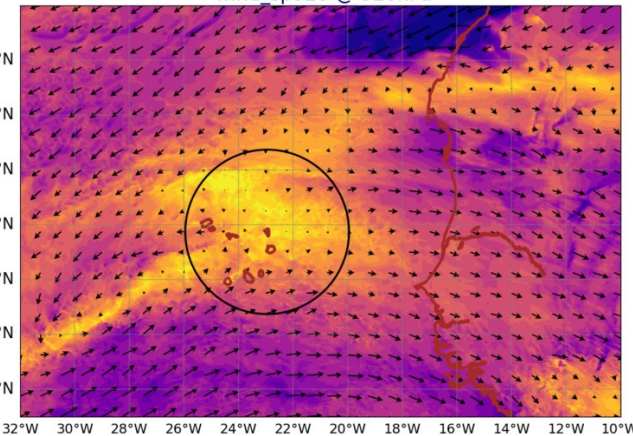
AROME25 20240811-12-UTC -ech(12h)  
wind\_sp920 @ 920hPa



AROME25 20240812-12-UTC -ech(36h)  
wind\_sp920 @ 920hPa



AROME25 20240813-12-UTC -ech(60h)  
wind\_sp920 @ 920hPa





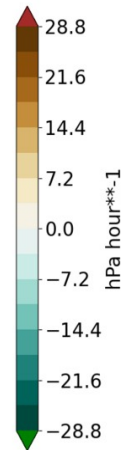
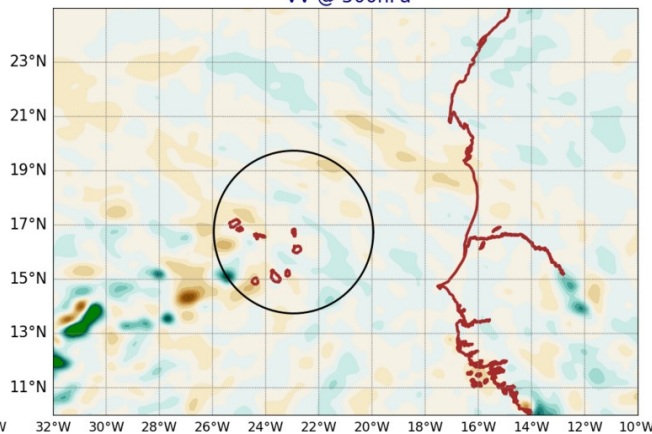
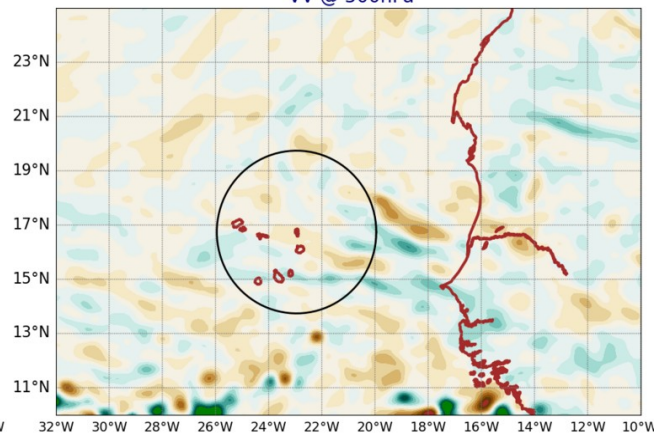
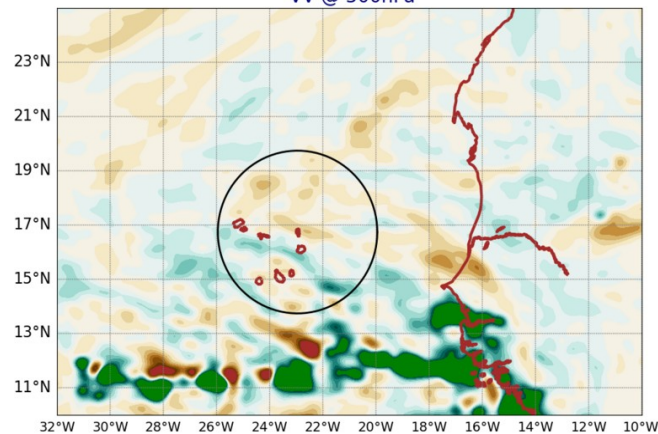
# AROME VV @ 500hPa

## AROME LWP+IWP

AROME25 20240811-12-UTC -ech(12h)  
VV @ 500hPa

AROME25 20240812-12-UTC -ech(36h)  
VV @ 500hPa

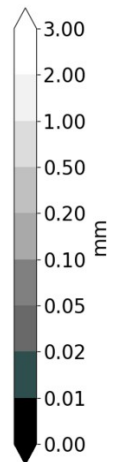
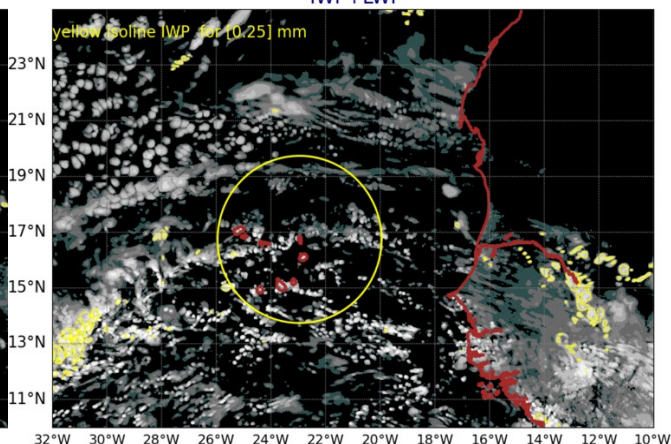
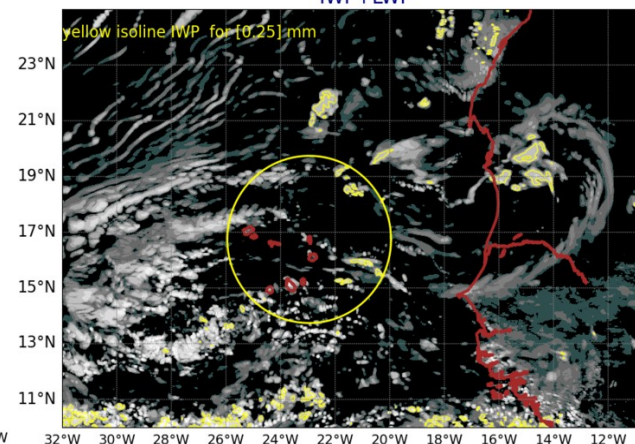
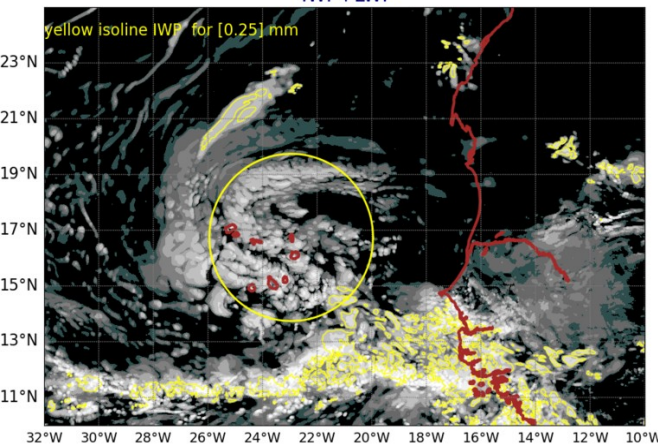
AROME25 20240813-12-UTC -ech(60h)  
VV @ 500hPa



AROME25 20240811-12-UTC -ech(12h)  
IWP+LWP

AROME25 20240812-12-UTC -ech(36h)  
IWP+LWP

AROME25 20240813-12-UTC -ech(60h)  
IWP+LWP

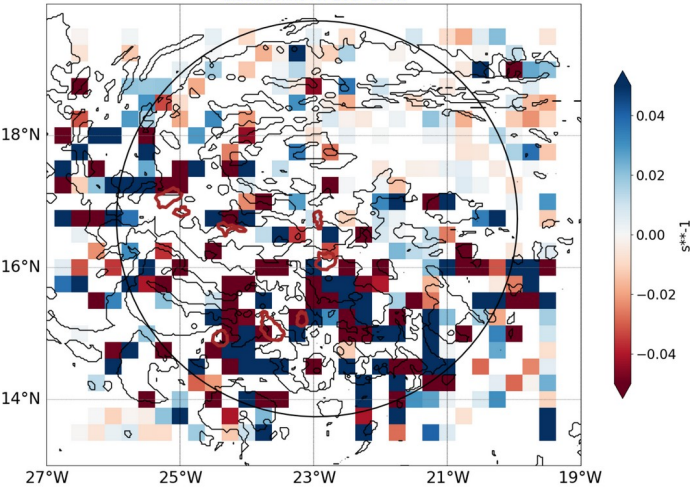




# Smoc

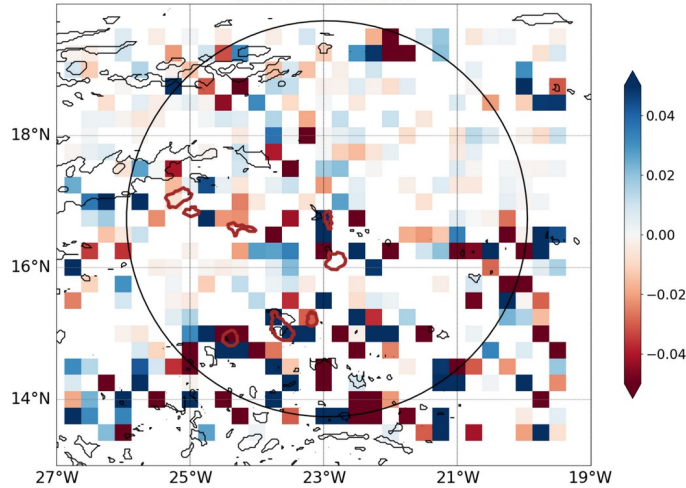
-blue for conv in subcloud layer-  
dark isoline for low cloud cover

AROME25 regrid 0.25  
20240811-12-UTC -ech(12h)  
blue for conv in subcloud layer  
black isoline for LCC>100%



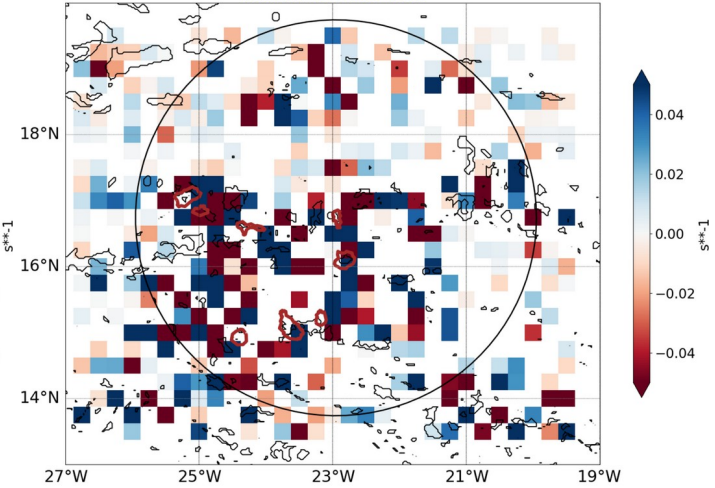
white box where subcloud and cloud layer have same sign of div

AROME25 regrid 0.25  
20240812-12-UTC -ech(36h)  
blue for conv in subcloud layer  
black isoline for LCC>100%



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

AROME25 regrid 0.25  
20240813-12-UTC -ech(60h)  
blue for conv in subcloud layer  
black isoline for LCC>100%



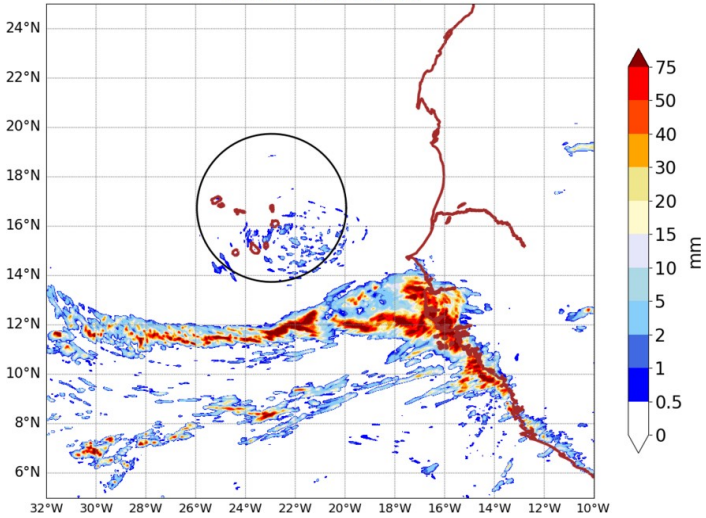
white box where subcloud and cloud layer have same sign of div

over 6h ech 12h and 15h

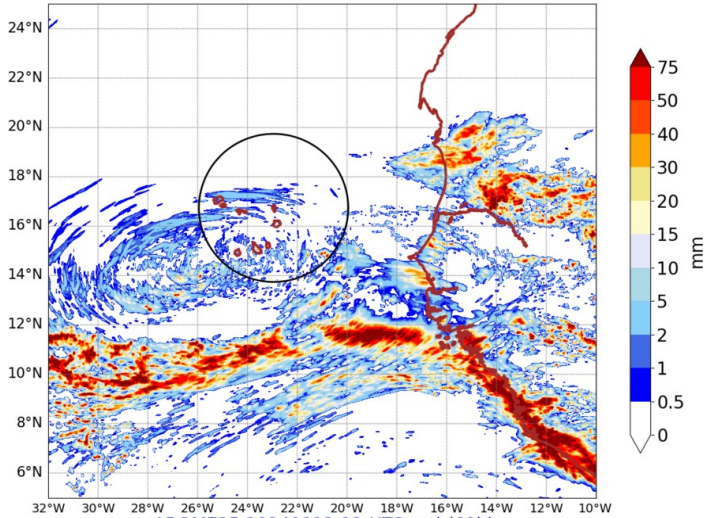
# AROME precipitation

over 24h ech 36h and 60h

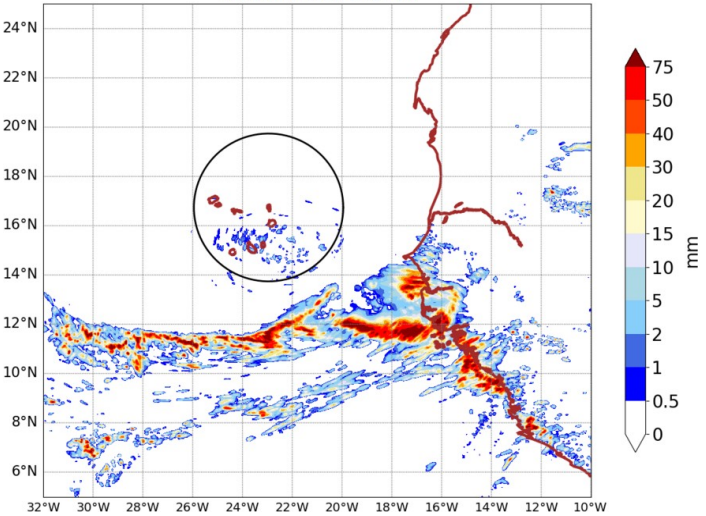
AROME25 20240811-12-UTC -ech(12h)  
RR cumulated over 6h



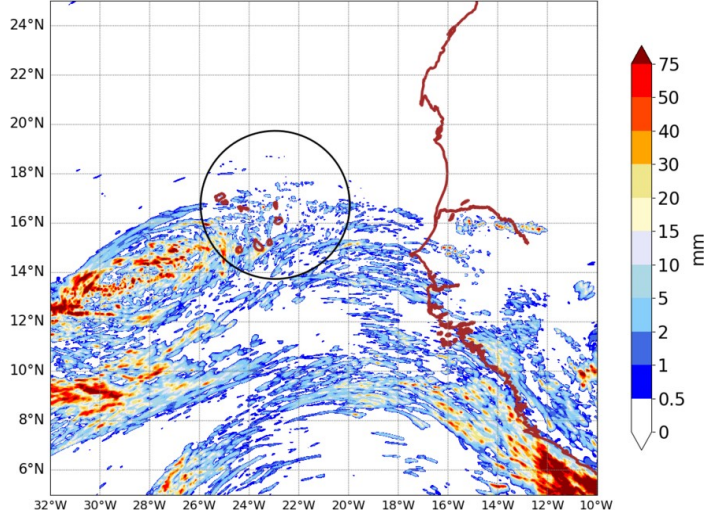
AROME25 20240812-12-UTC -ech(36h)  
RR cumulated over 24h



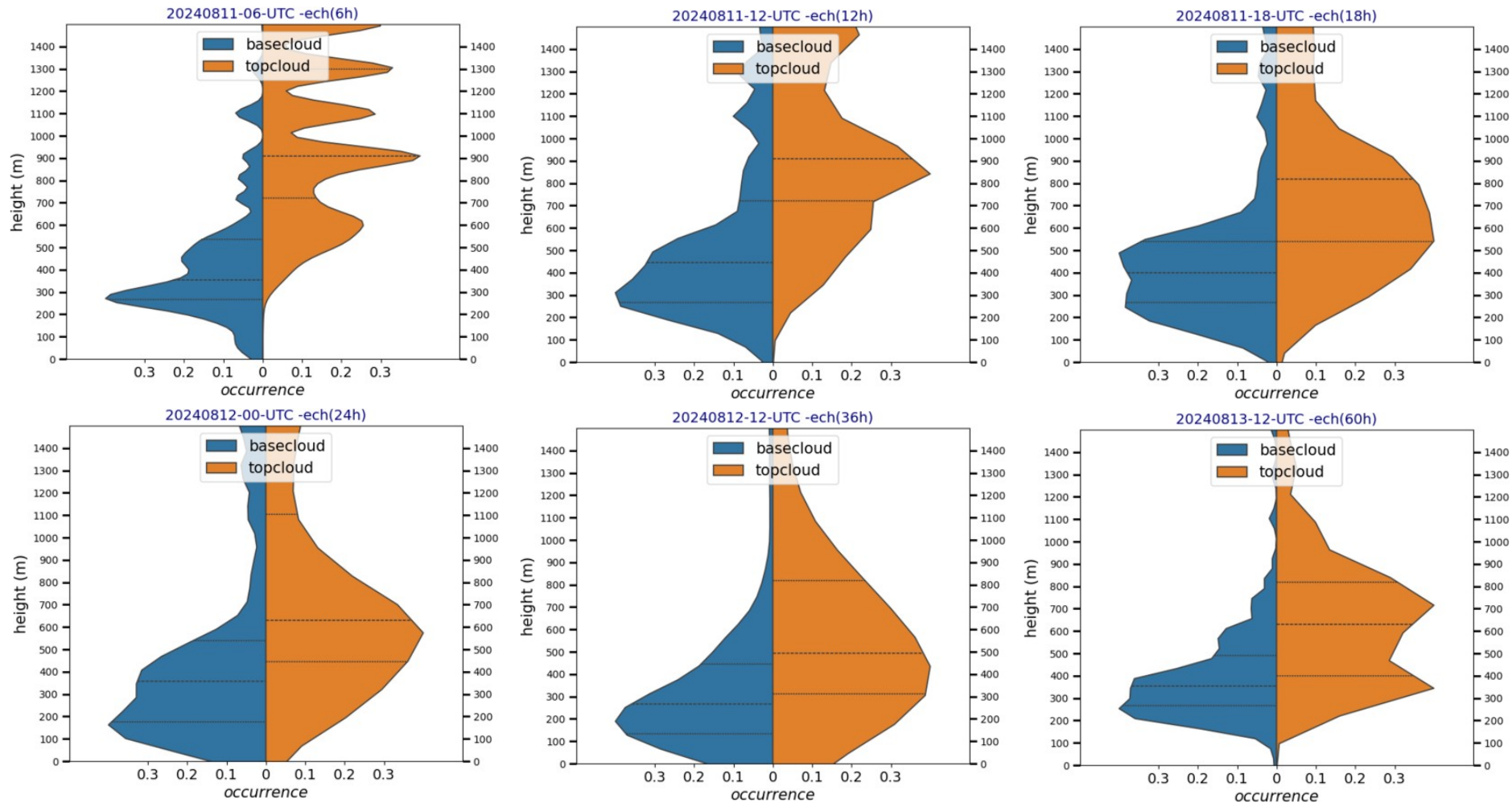
AROME25 20240811-15-UTC -ech(15h)  
RR cumulated over 6h



AROME25 20240813-12-UTC -ech(60h)  
RR cumulated over 24h



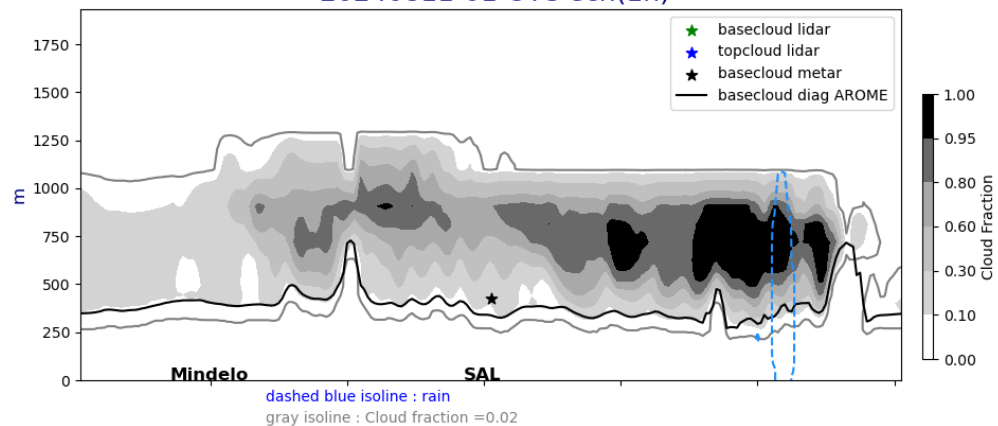
# AROME base and top cloud (mean in the 3° circle)



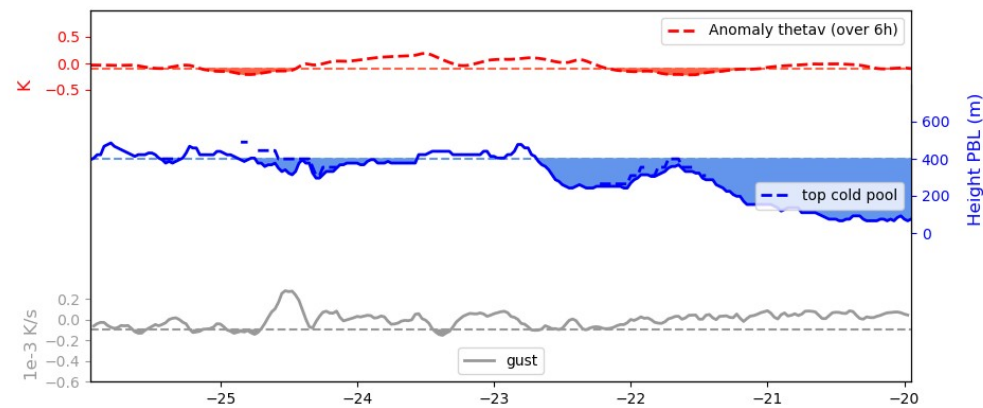
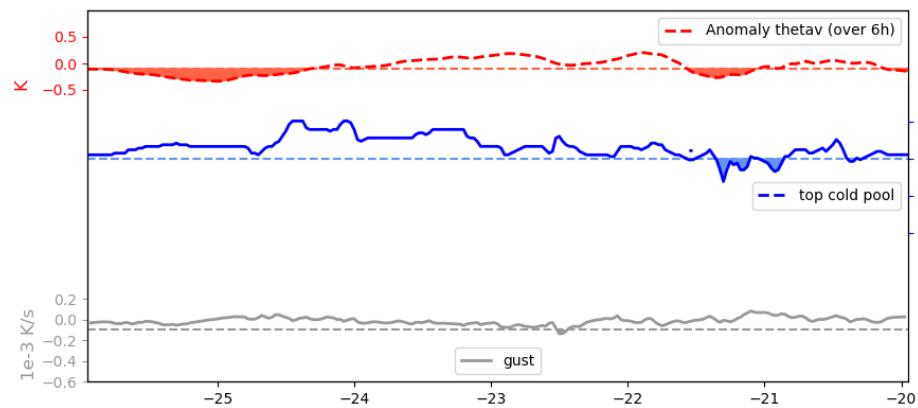
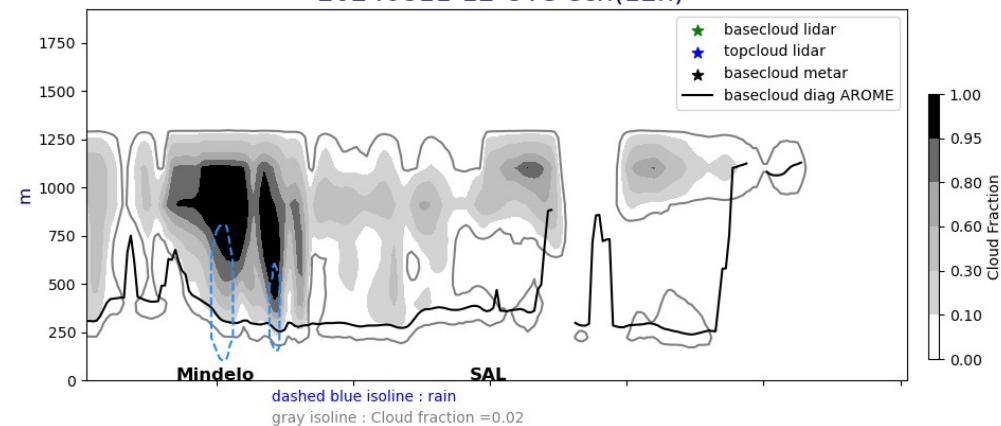


# Lat. cross section @17°5N fct : 01UTC, 12UTC

Cross section E/W @ 17.5N  
20240811-01-UTC ech(1h)

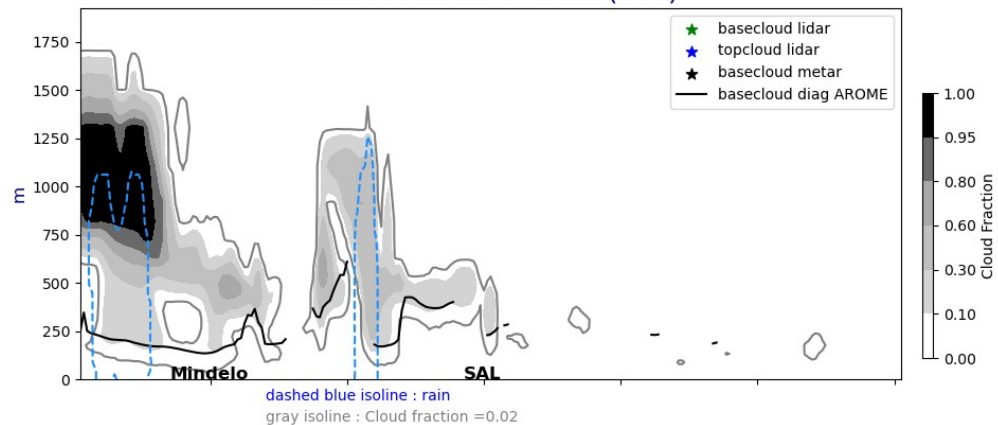


Cross section E/W @ 17.5N  
20240811-12-UTC ech(12h)

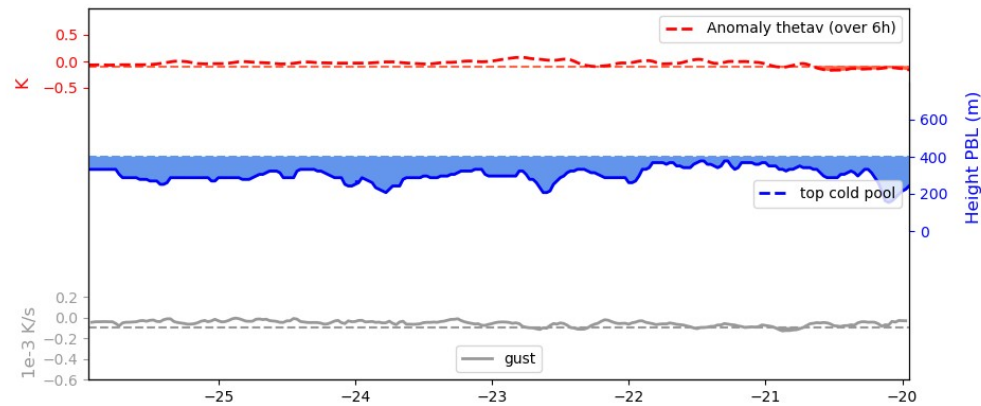
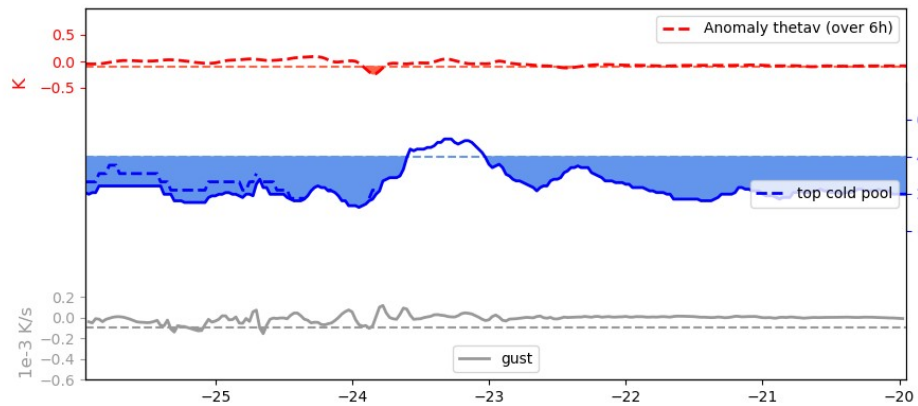
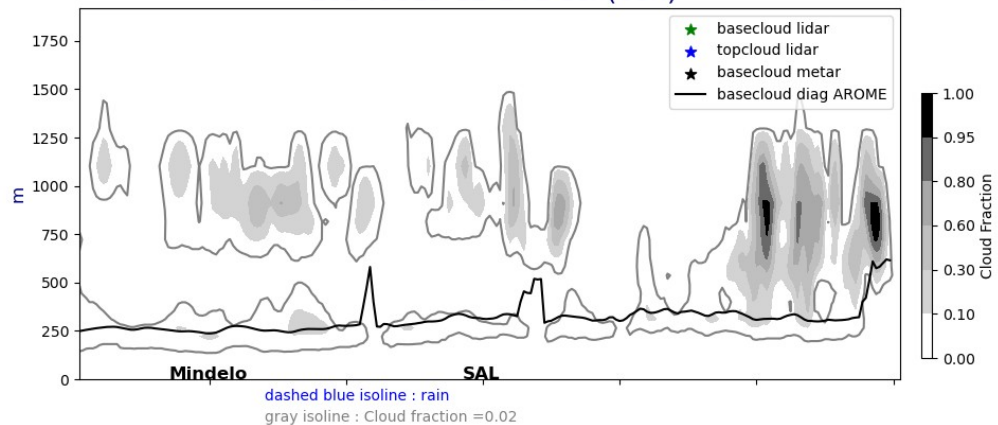


# Lat. cross section @17°5N fct : J+1 and J+2 @ 12UTC

Cross section E/W @ 17.5N  
20240812-12-UTC ech(36h)

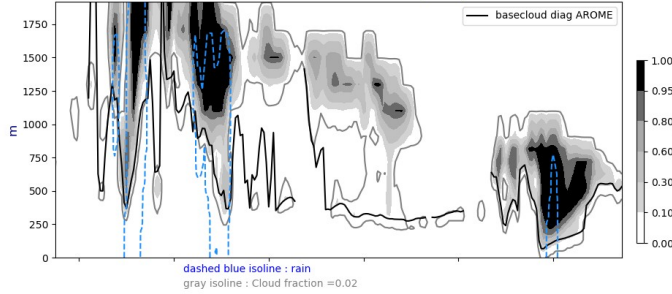


Cross section E/W @ 17.5N  
20240813-12-UTC ech(60h)

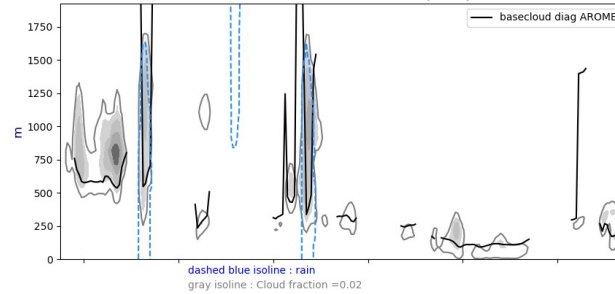


# Lon. cross section @22W fct : J,J+1, J+2 @ 12 UTC

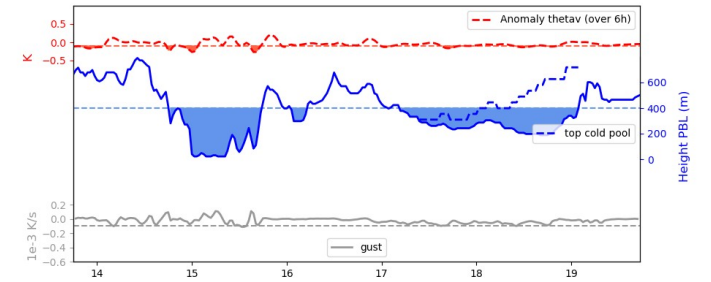
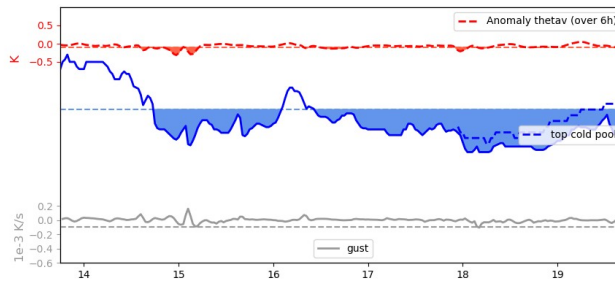
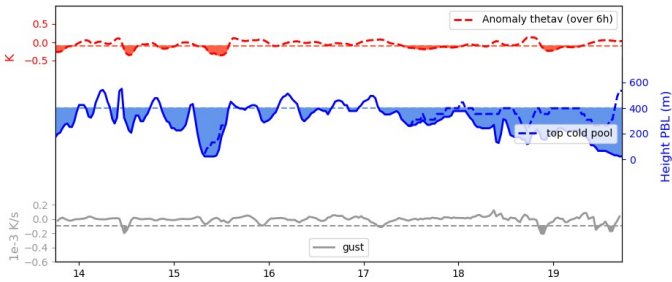
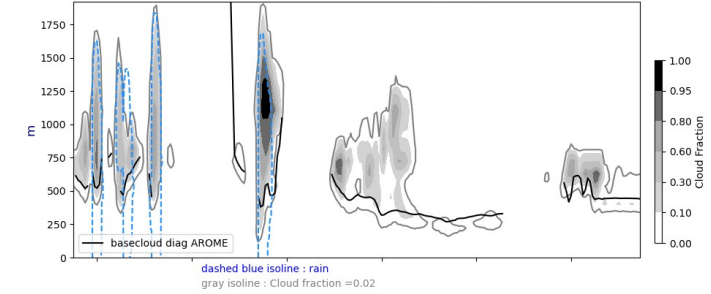
Cross section S/N @ -22W  
20240811-12-UTC ech(12h)



Cross section S/N @ -22W  
20240812-12-UTC ech(36h)



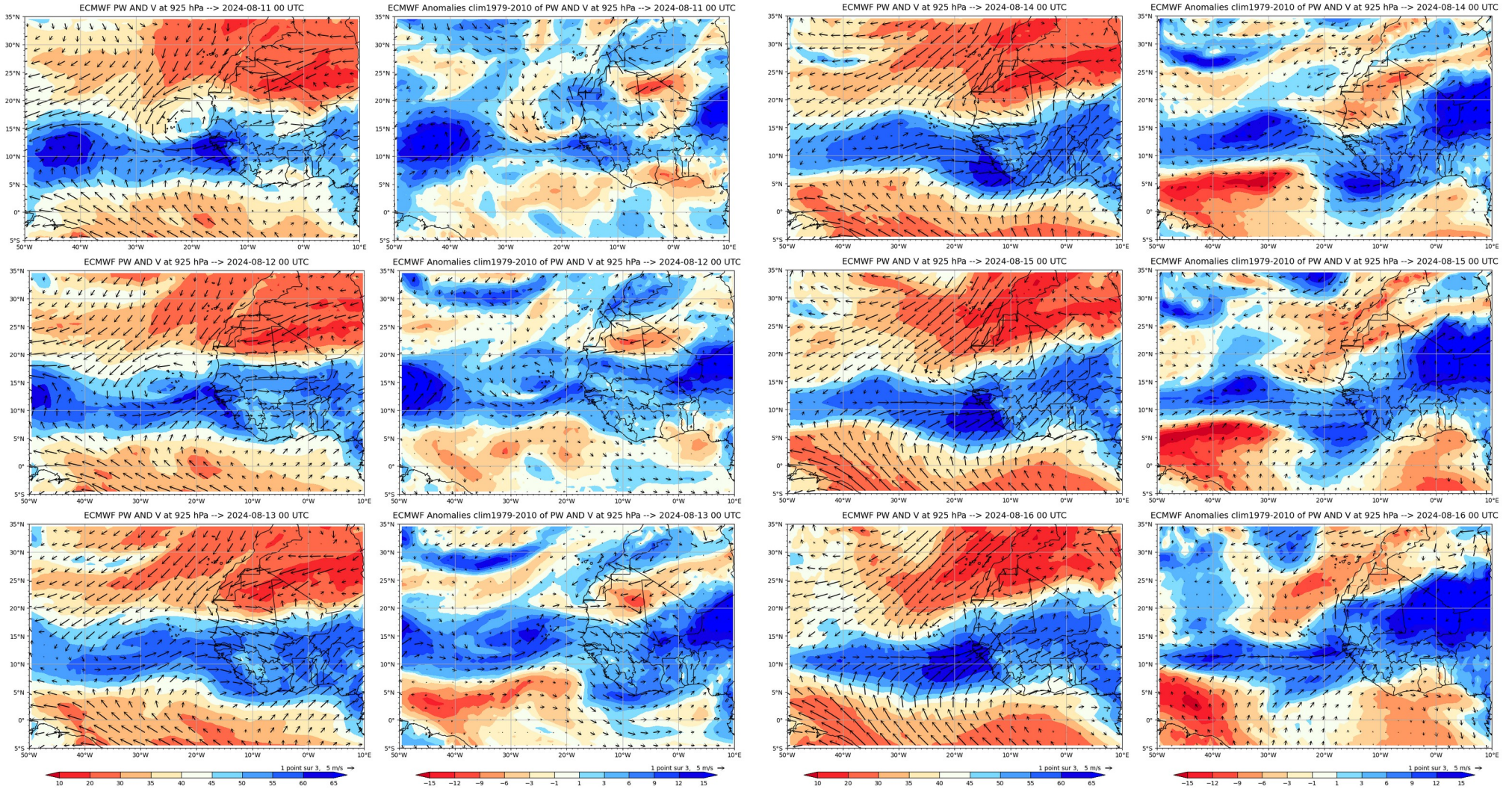
Cross section S/N @ -22W  
20240813-12-UTC ech(60h)





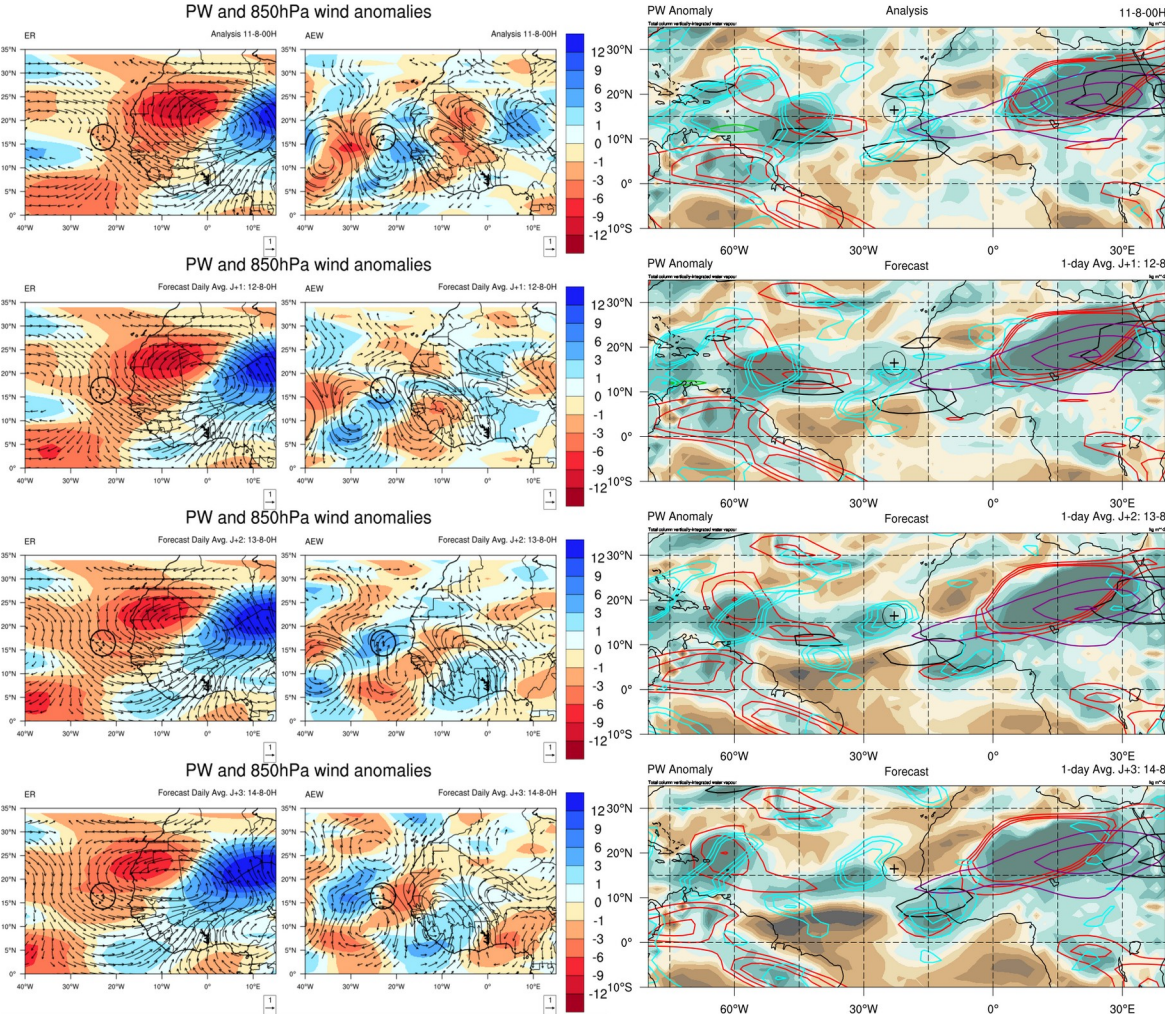
Week forecast J - J+7

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



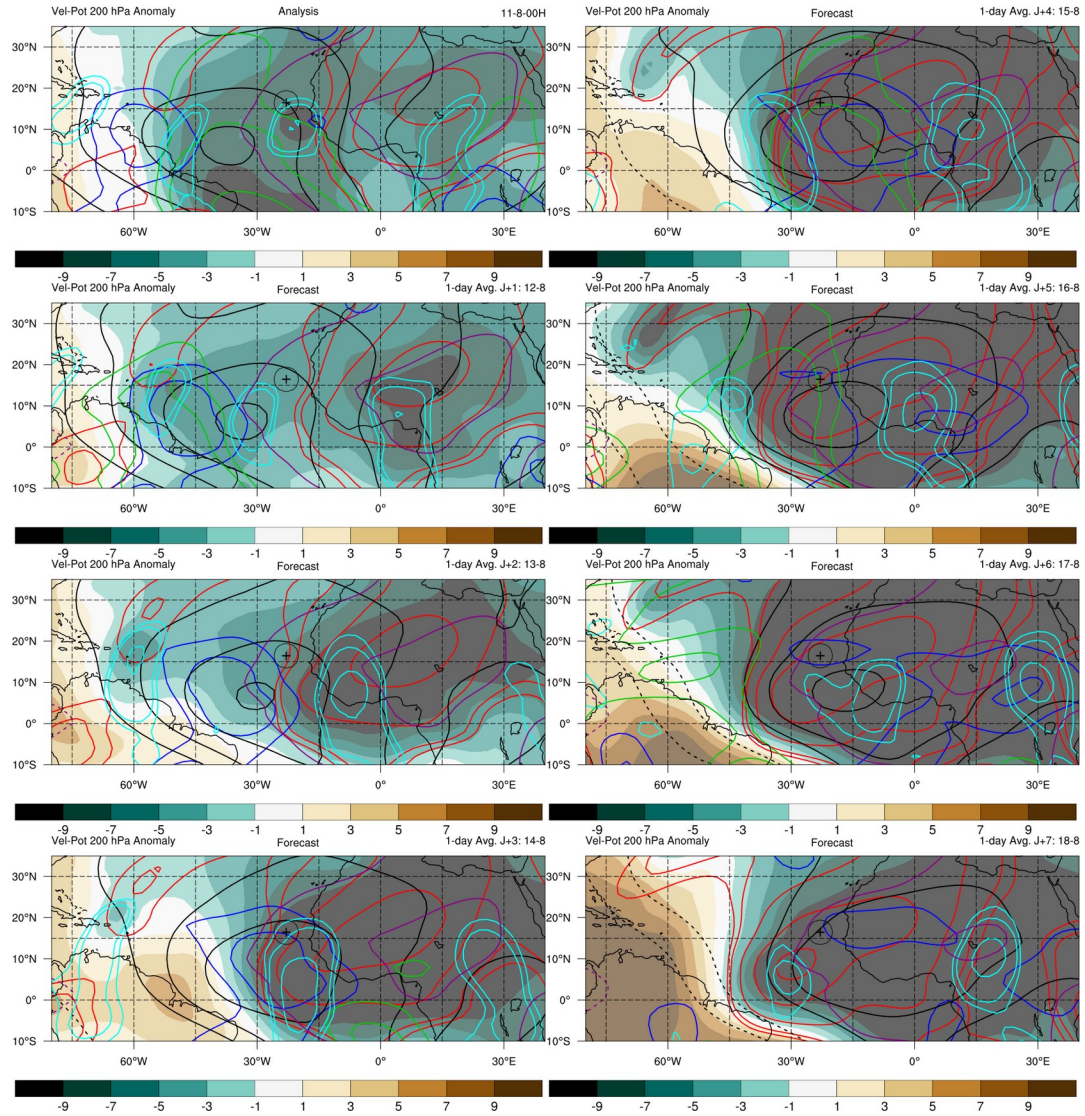


# Decomposition PW/Wind and Waves contours J to J+3

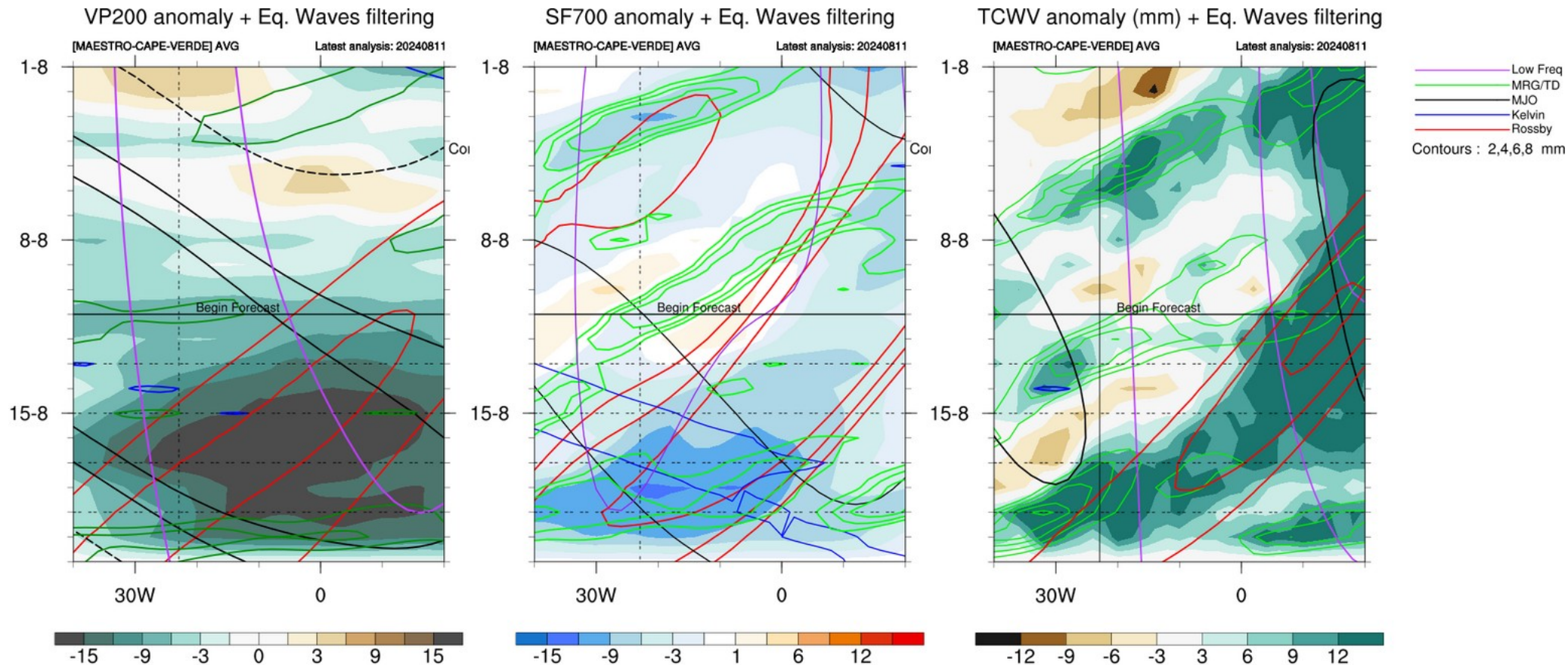




# Waves : Velocity potential @ 200 hPa, day J to J+7



# Equatorial Waves filtering hovmollers

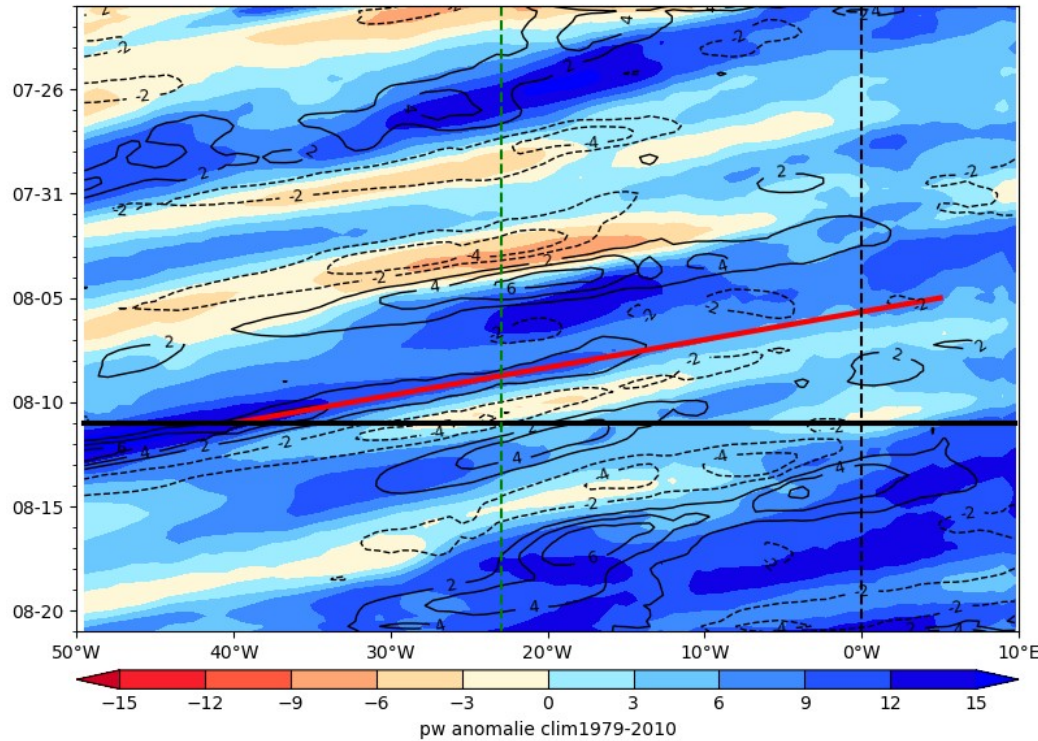




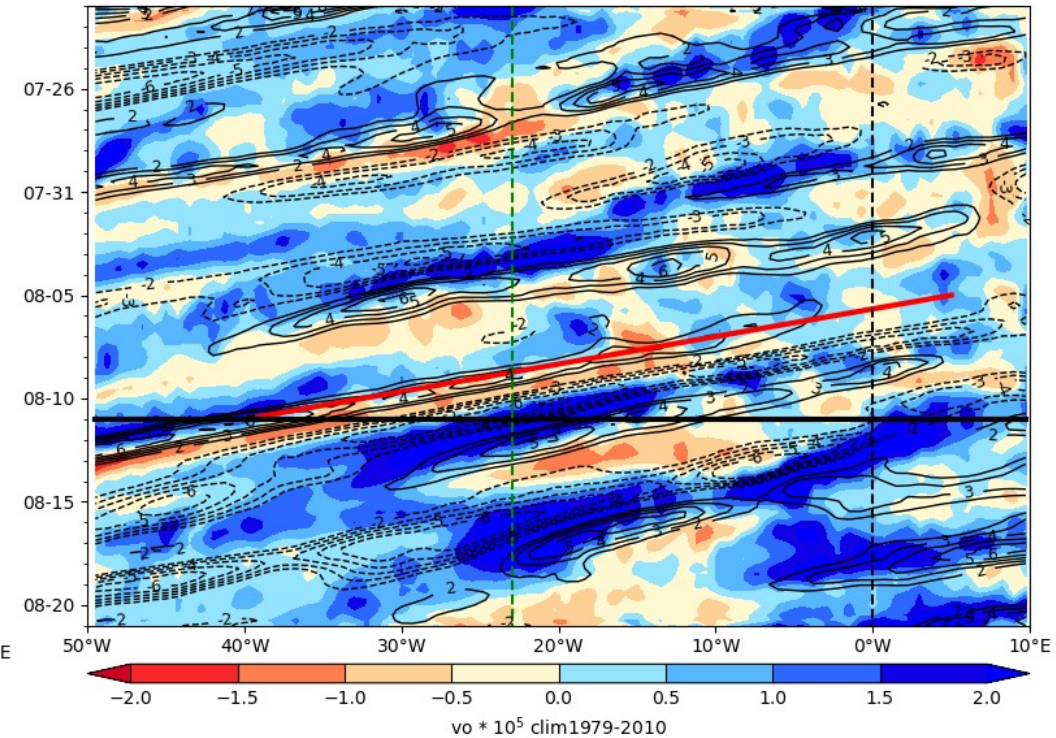
# Hovmoller anomaly

## Precipitable water – vorticity 850hPa

ECMWF PW (color) AND V at 925 hPa 2024-08-11

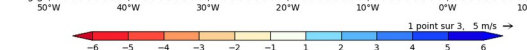
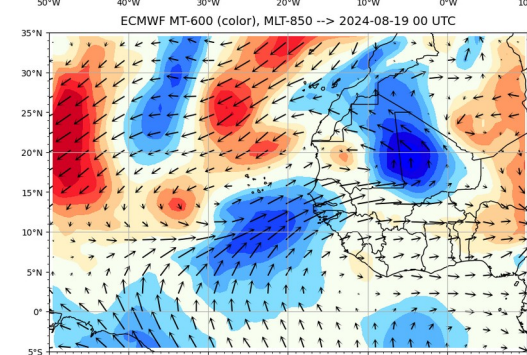
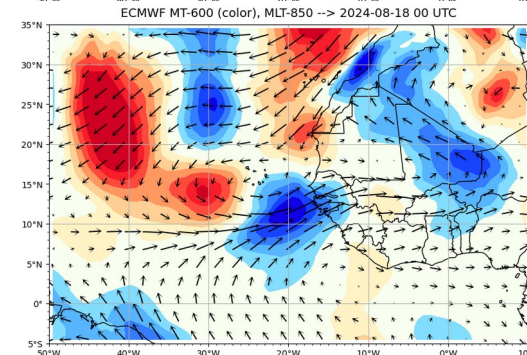
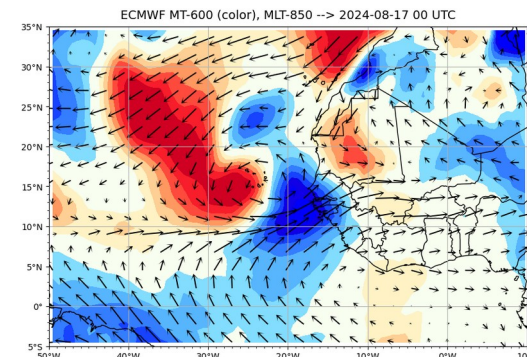
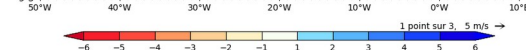
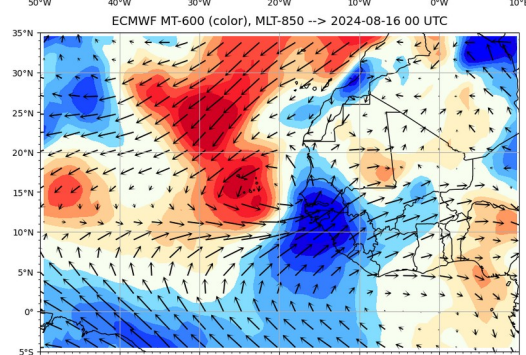
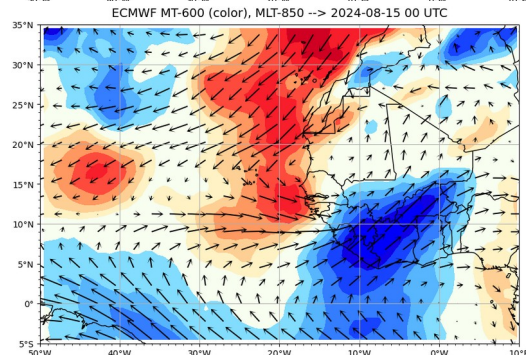
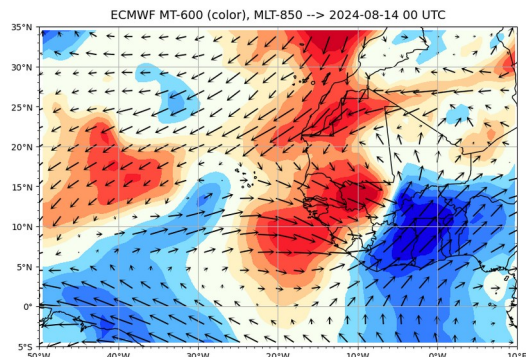
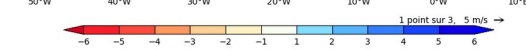
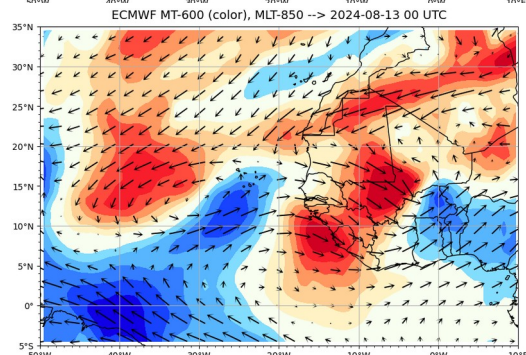
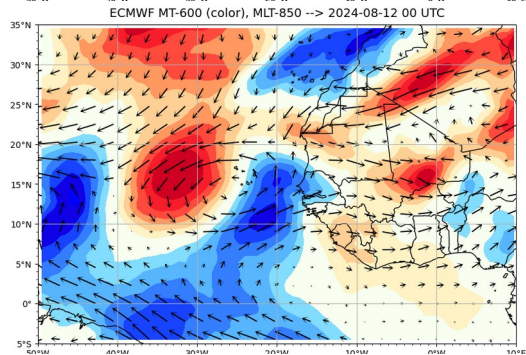
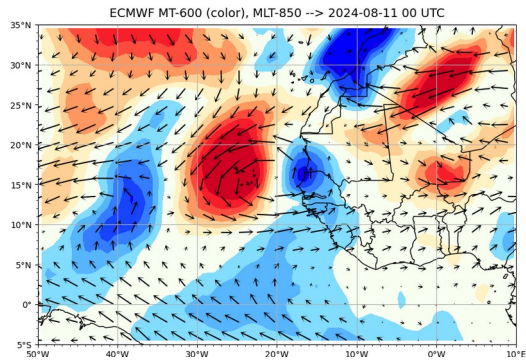


ECMWF Vorticity 850 hPa (color), V-700 hPa 2024-08-11



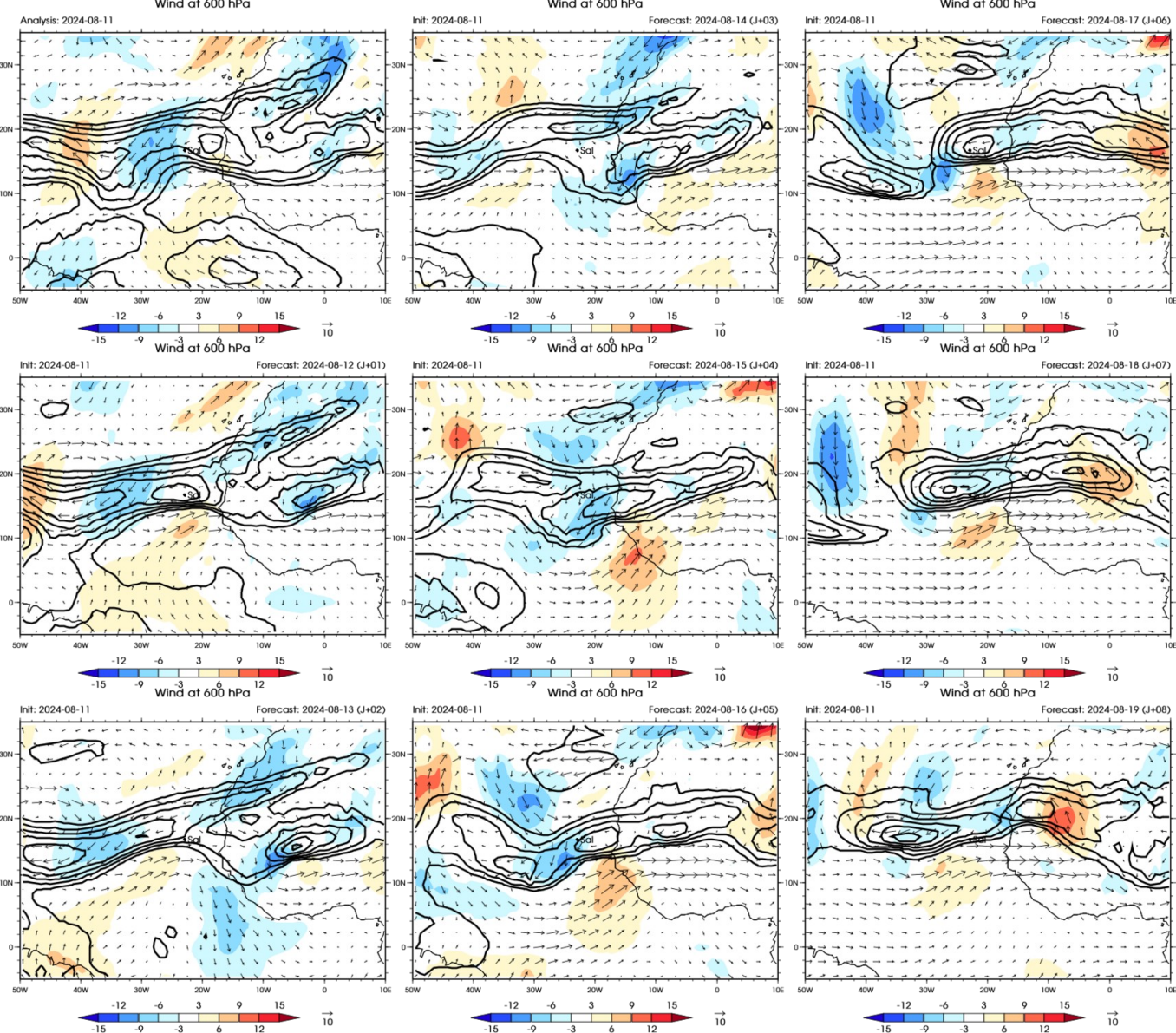


# Monsoon Flow





# African Easterly Jet wind 600 hPa



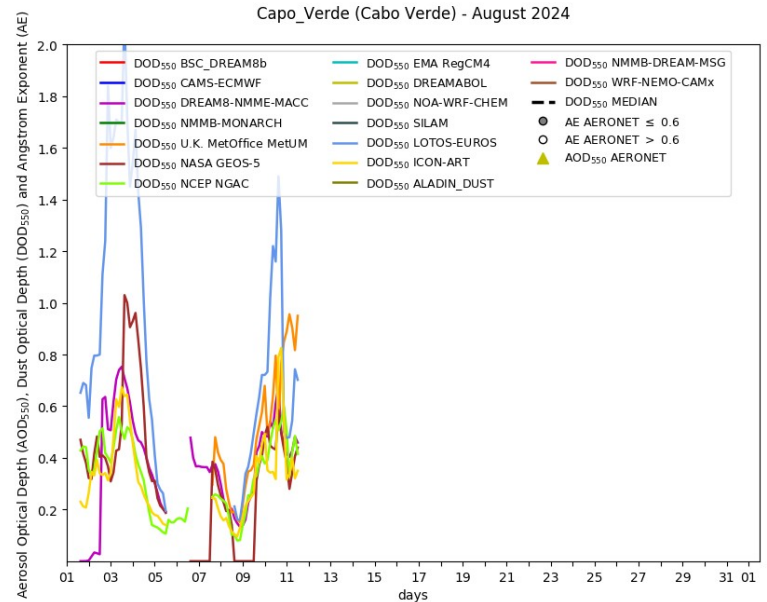
# Dust Observations and Forecast

- Temporal evolution model/Obs at Sal :

[https://sds-was.aemet.es/forecast-products/forecast-evaluation/Capo\\_Verde\\_v3](https://sds-was.aemet.es/forecast-products/forecast-evaluation/Capo_Verde_v3)

- Ensemble forecast Dust Optical Depth :

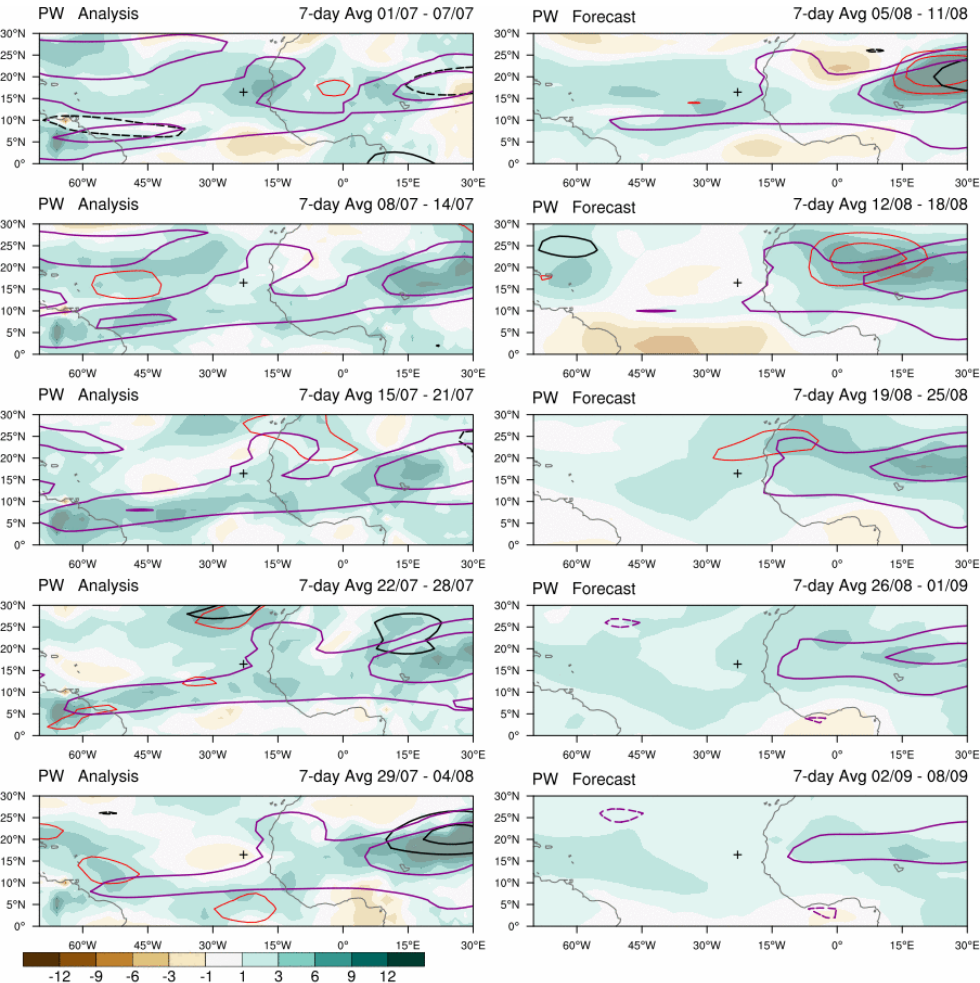
<https://sds-was.aemet.es/forecast-products/dust-forecasts/ensemble-forecast>





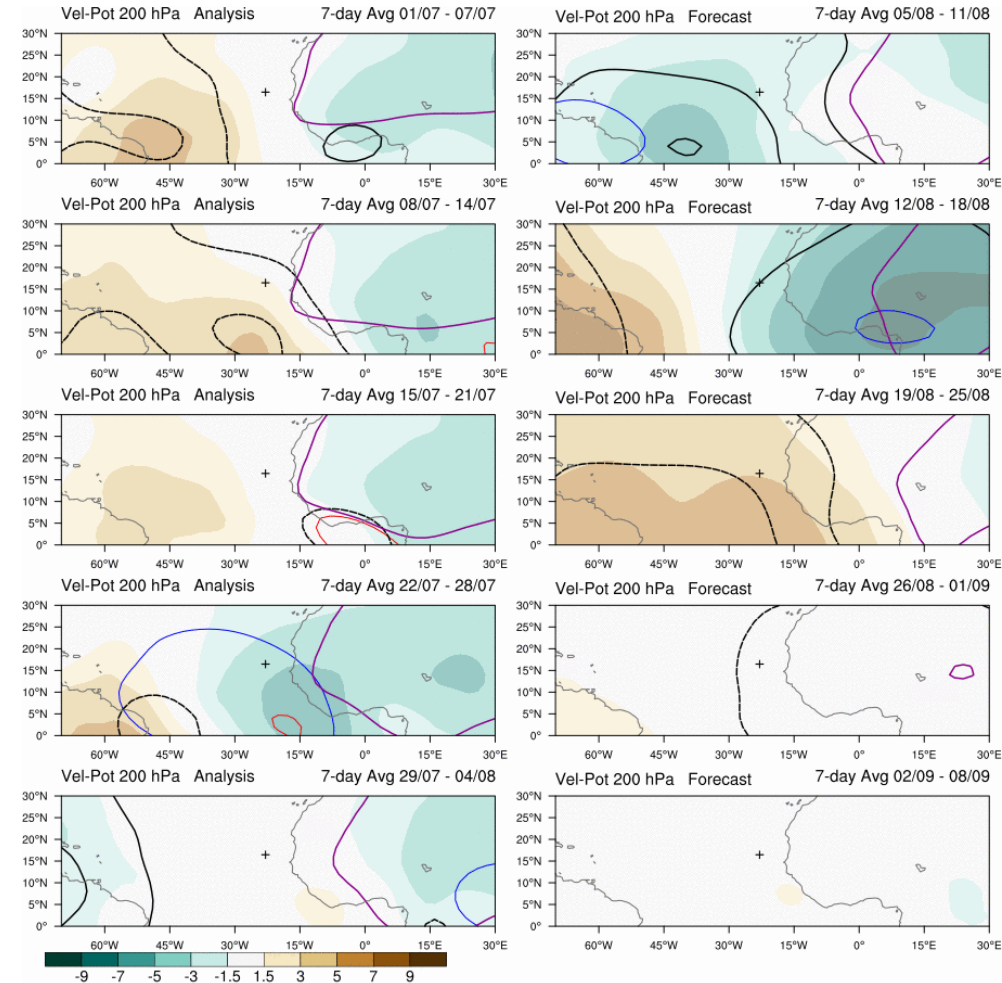
Subseasonal forecast  
(updated once a week)

# 4 weeks forecast PW et VP200



Contours: 2.5, 5, 10, mm  
 — MRG/TD  
 — Kelvin  
 — Rossby  
 — MJO  
 — Low

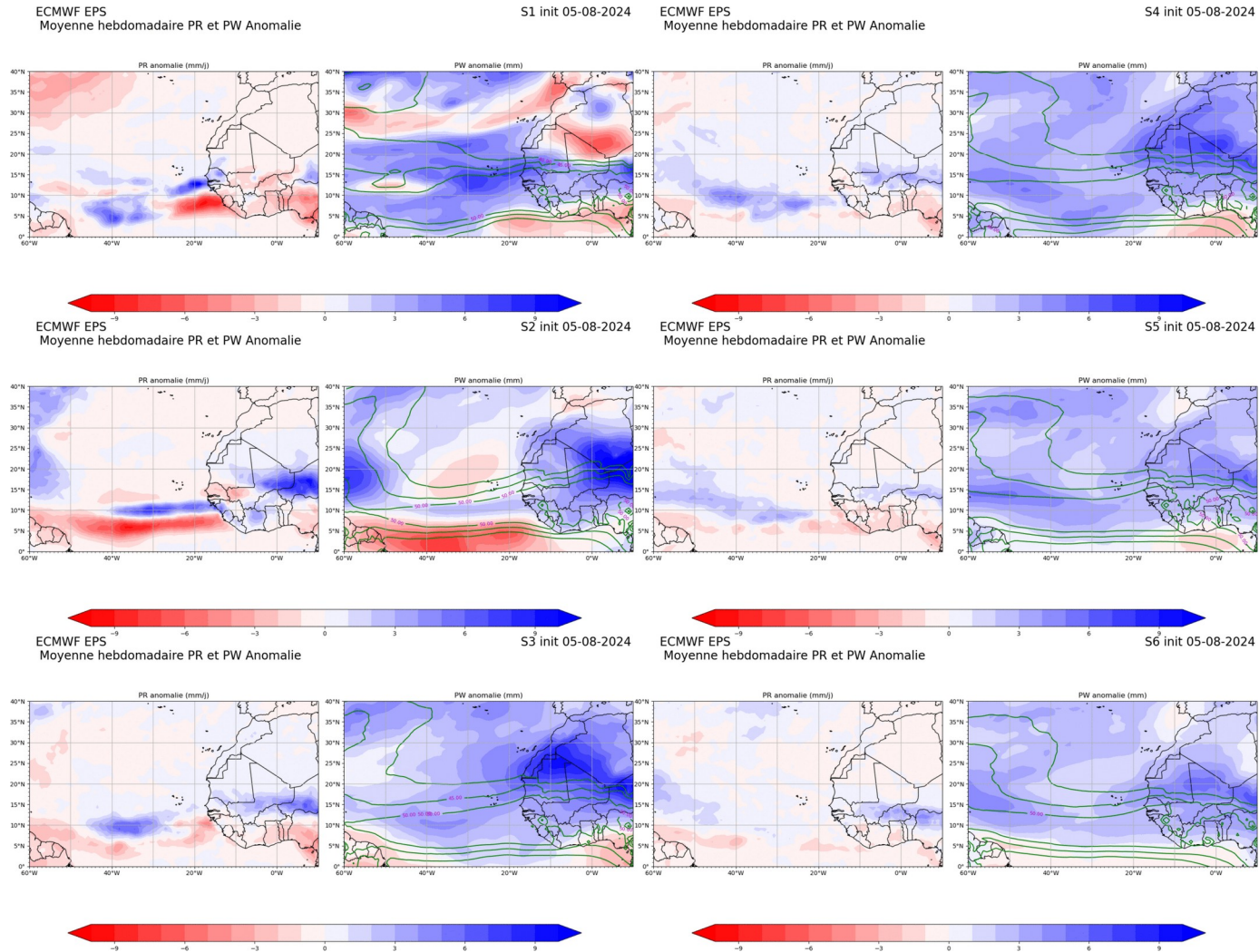
contact: Philippe Peyrille  
 philippe.peyrille@meteo.fr



Contours: -6, -4, -2, m2s-1  
 — MRG/TD  
 — Kelvin  
 — Rossby  
 — MJO  
 — Low

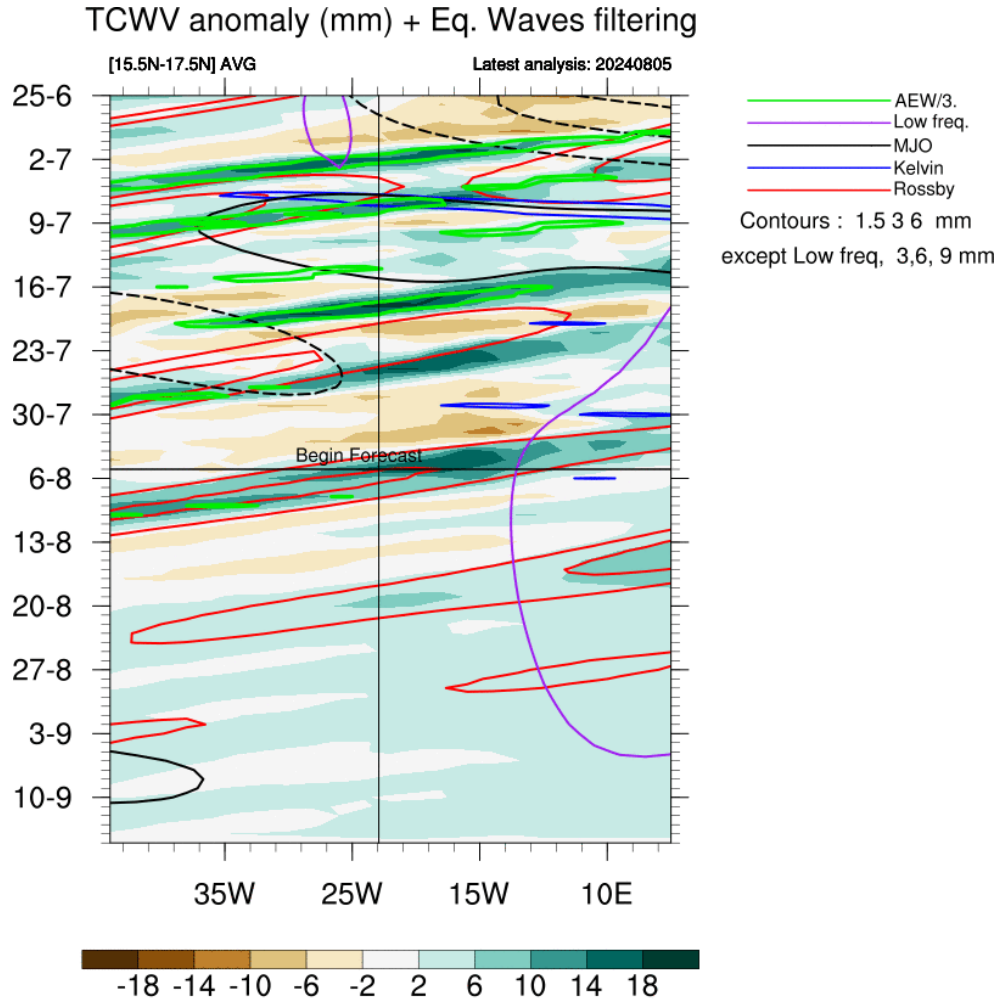
contact: Philippe Peyrille  
 philippe.peyrille@meteo.fr

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





# Hovmoller forecast PW over 4 weeks

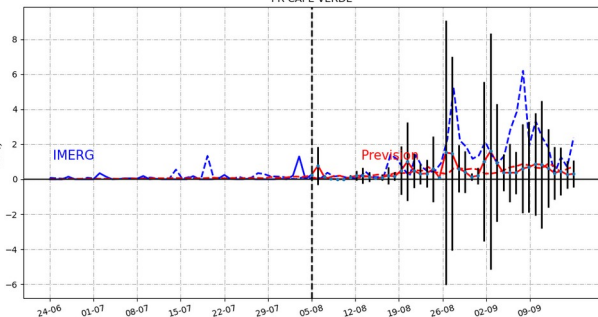


# Temporal evolution PR, PW (+ EKE)

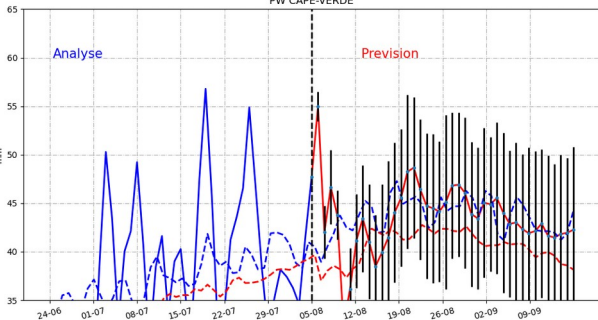
## journalier

ECMWF EPS  
init 05-08  
Moyenne journaliere PR,PW Bruts

PR CAPE-VERDE



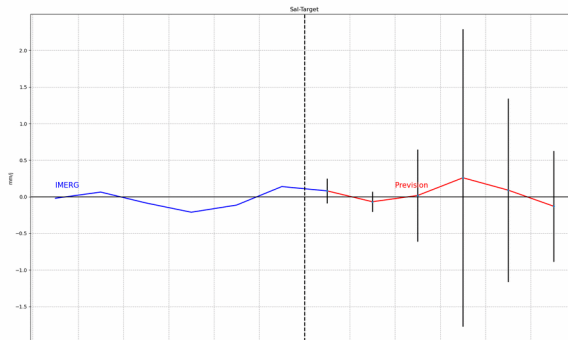
PW CAPE-VERDE



## hebdomadaire

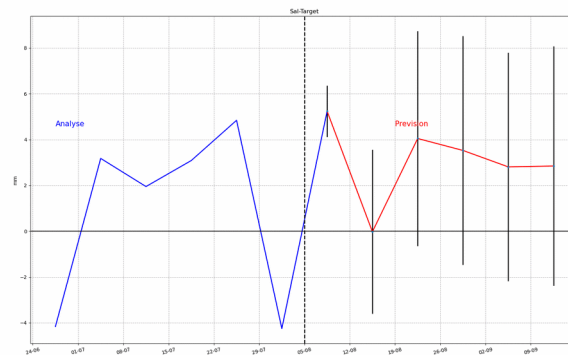
ECMWF EPS  
Moyenne hebdomadaire PR Anomalie

init 05-08



ECMWF EPS  
Moyenne hebdomadaire PW Anomalie

init 05-08



## 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							



