

DRAFT SUMMARY MAESTRO

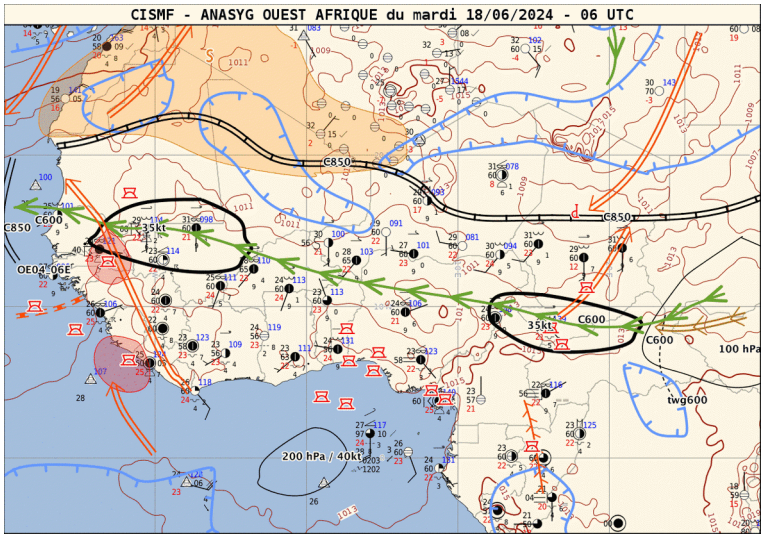
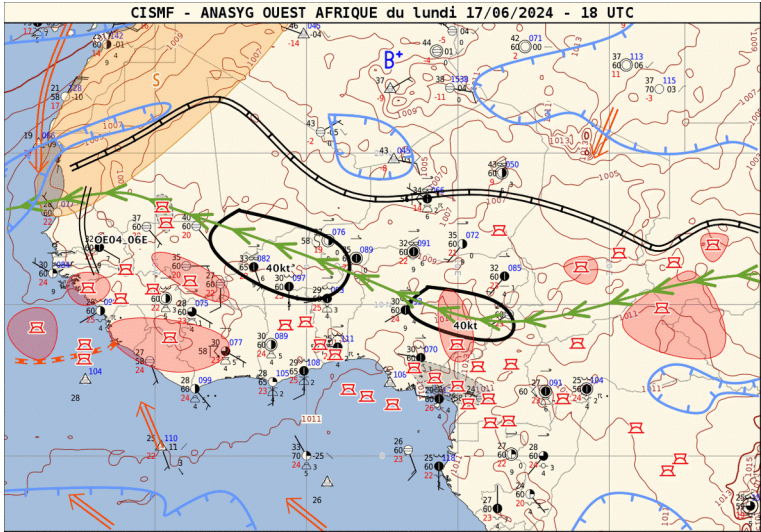
Four parts :

- evaluation J-1
- short term forecast J-J+36h
- week forecast J-J+7
- subseasonal forecast (a few weeks) : updated once a week

Evaluation Day-1

- West Africa ANASYG + satellite image (feedback to improve our experience)
- DIRAG ANASYG
- Precipitable Water, Meridional Transport J-1
- Carte PW + FFT waves J-1

Anasyg J-1 18UTC et J 06UTC

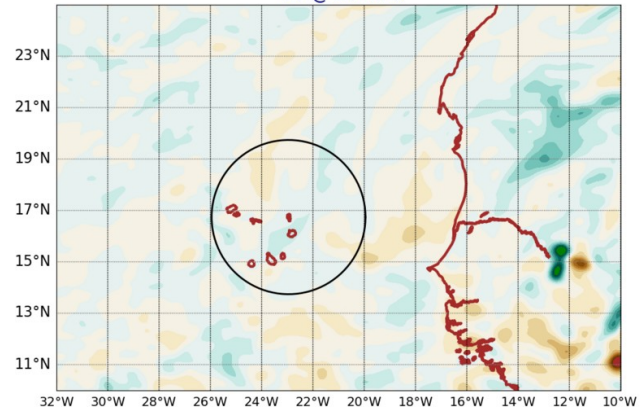


- + anasyg dirag

Image MSG Visible J-1 12 and 15 UTC

Arome J-1 12 and 15 UTC

AROME25 20240617-12-UTC -ech(12h)
VV @ 500hPa



AROME25 20240617-12-UTC -ech(12h)
IWP+LWP

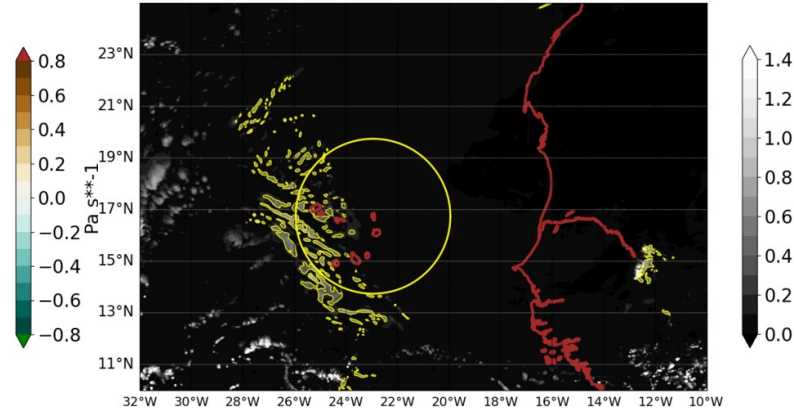
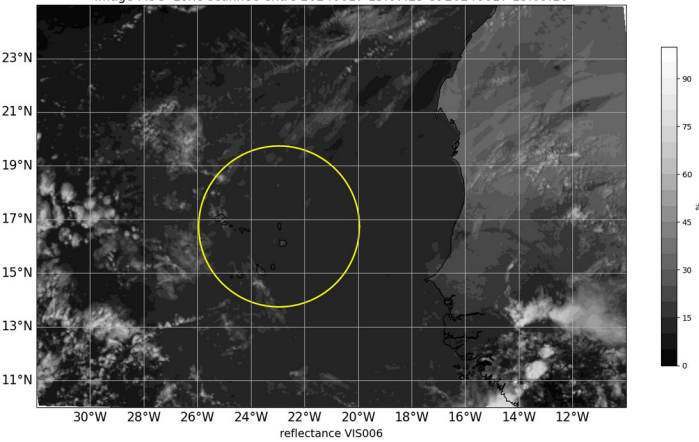
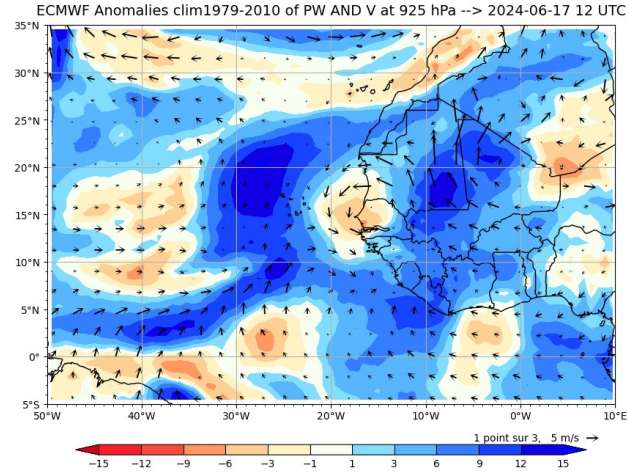
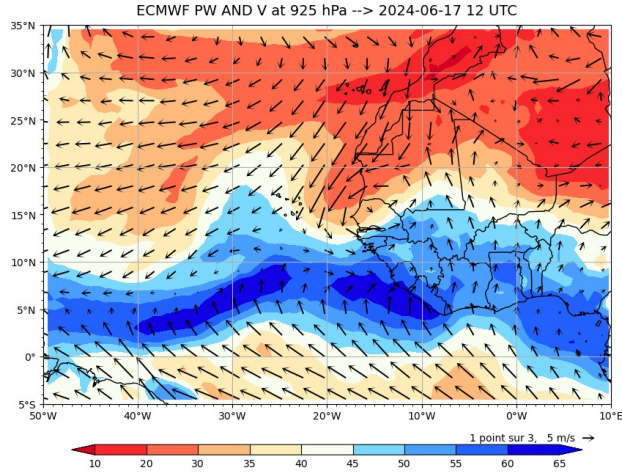


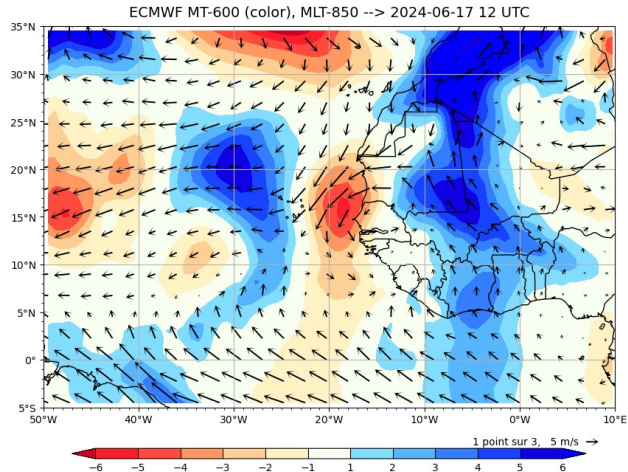
Image MSG zone scannée entre 20240617 15:07:25 et 20240617 15:09:10



Precipitable Water - Merid. Transport - Waves J-1



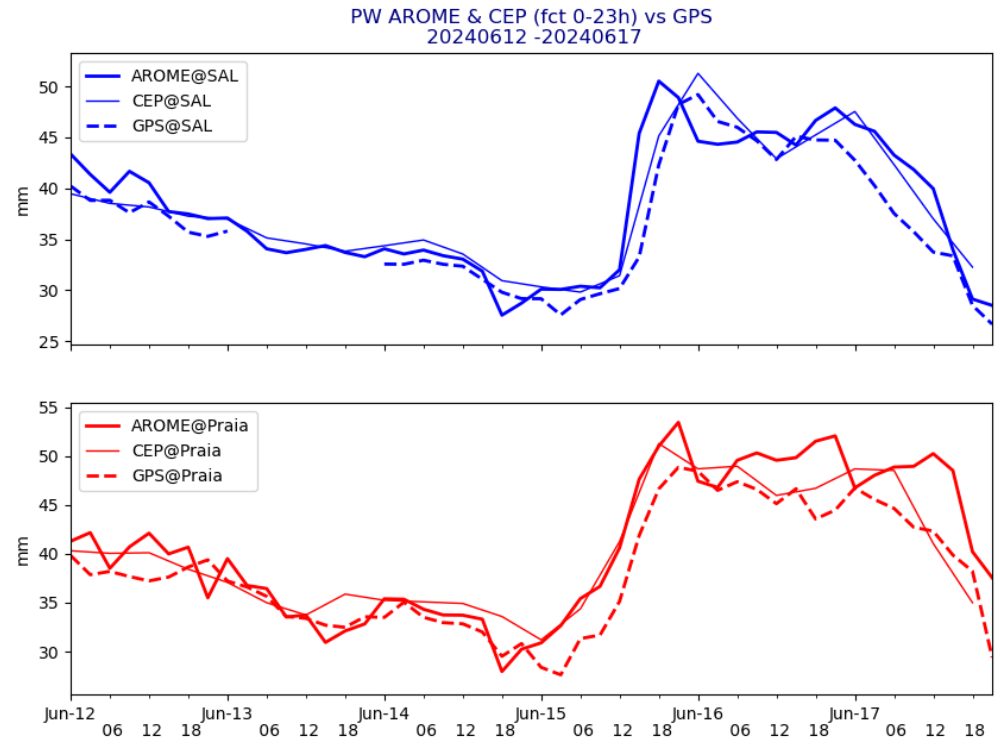
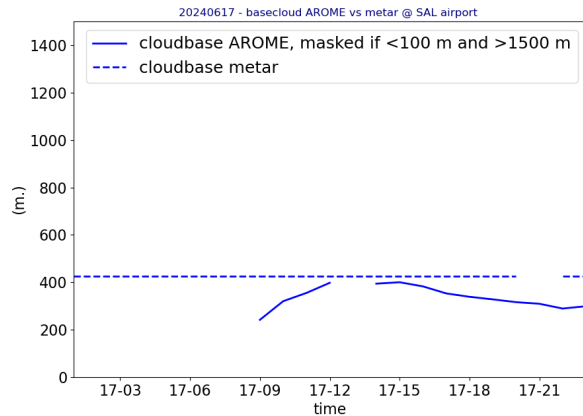
Ajouter ondes J-1



OBSERVATIONS J-1

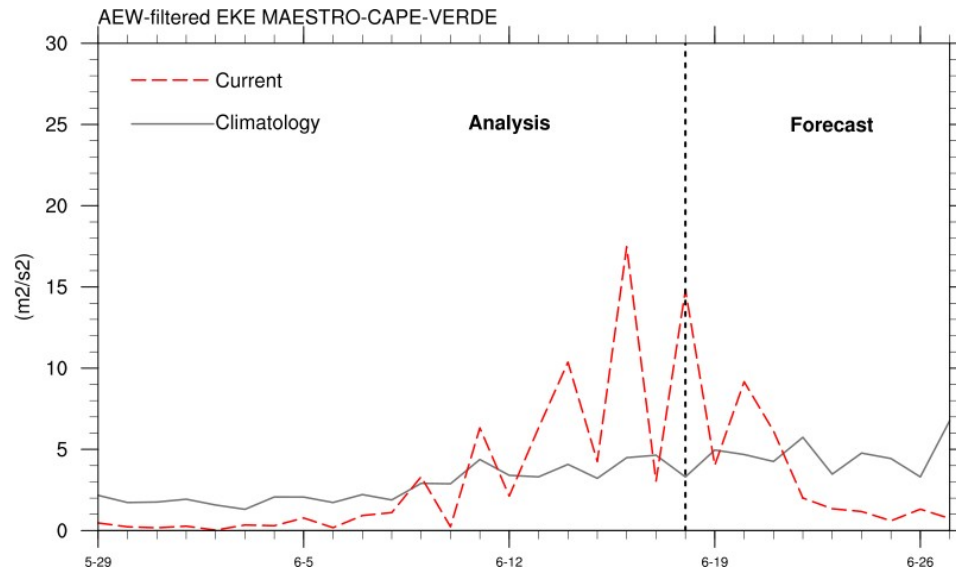
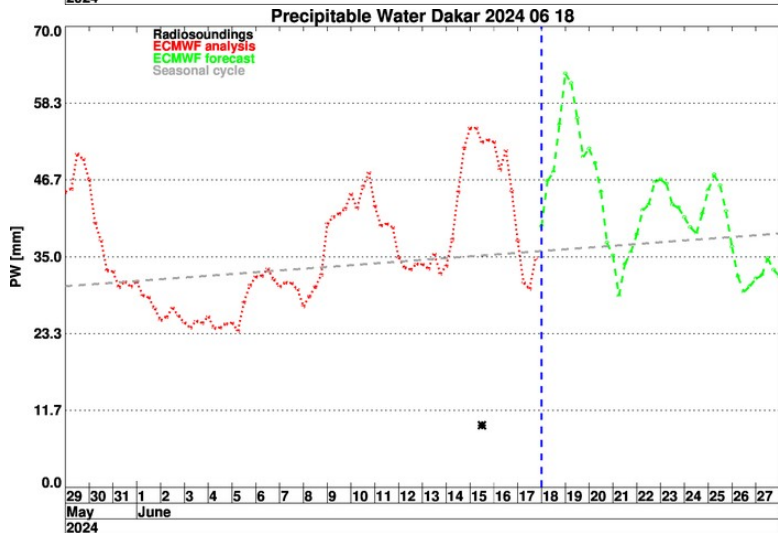
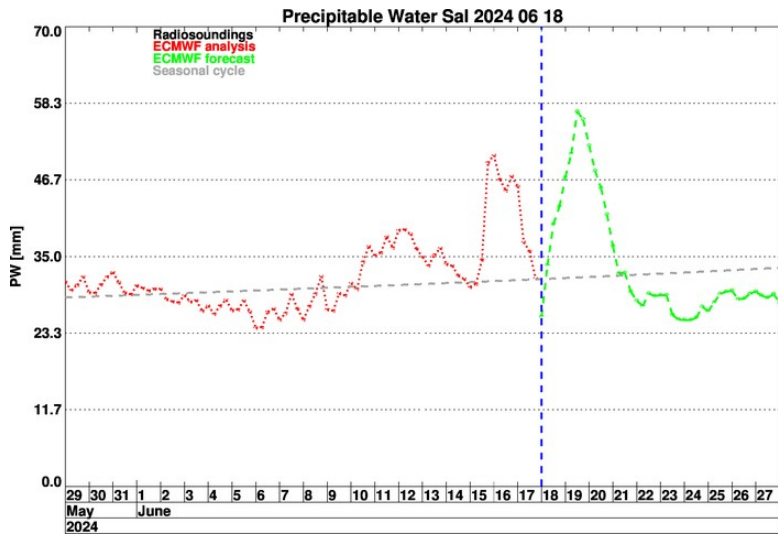
Lidar@ mindelo
metar@sal

GPS @ Sal
GPS @ Praia

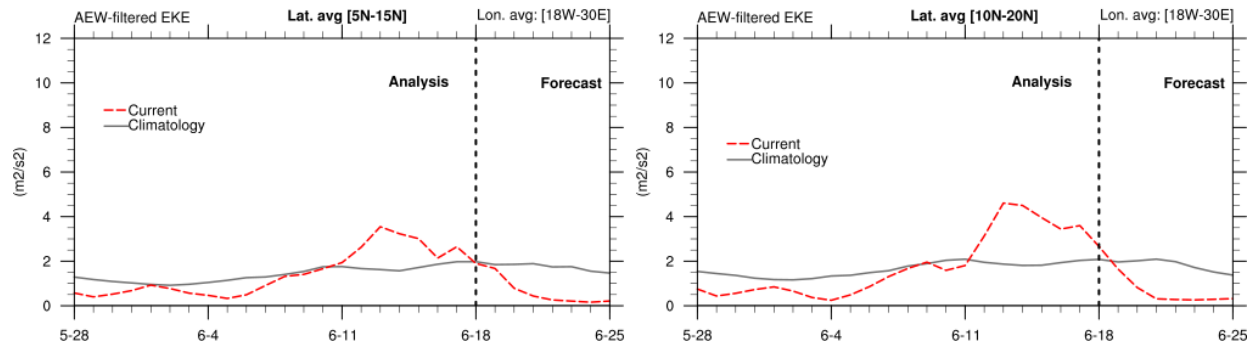


Short term forecast J- J+36h

Temporal evolution PW Sal et Dakar + EKE



AEW wind index



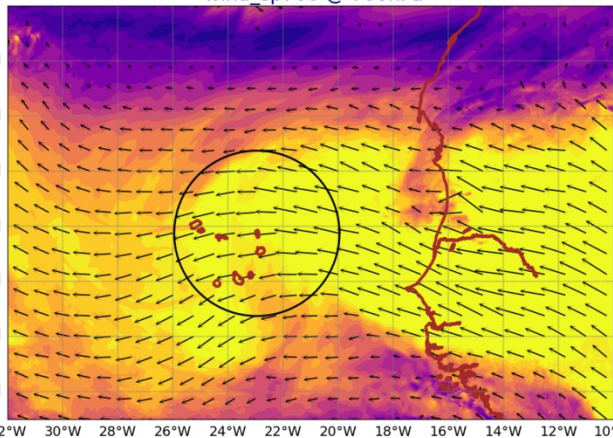
FIGURES AROME

- PW J-J+36h 850 hPa ?
- Pbl height
- Avoir une coupe zonale / meridienne de qv ?

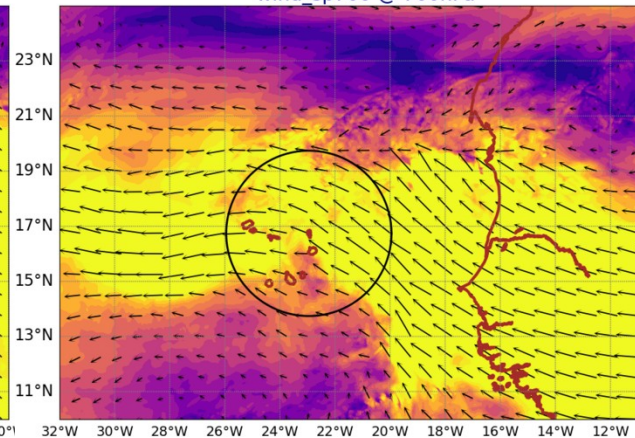
AROME Wind @ 700 hPa

AROME Wind @ 920 hPa

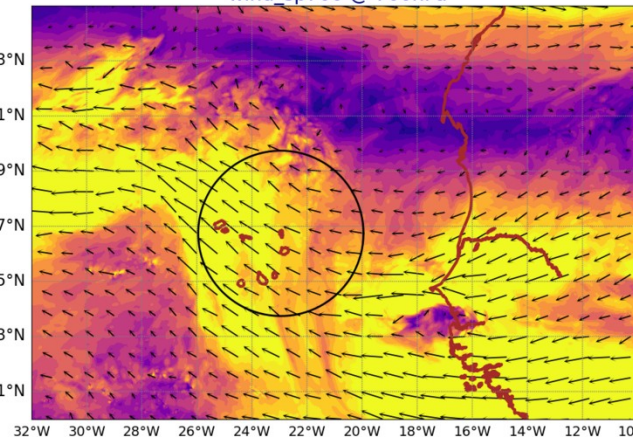
AROME25 20240618-12-UTC -ech(12h)
wind_sp700 @ 700hPa



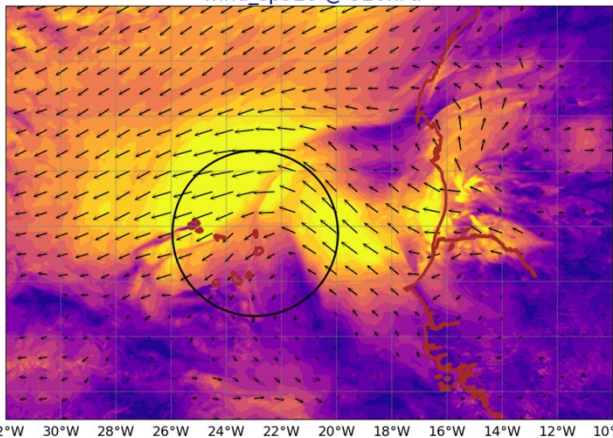
AROME25 20240619-12-UTC -ech(36h)
wind_sp700 @ 700hPa



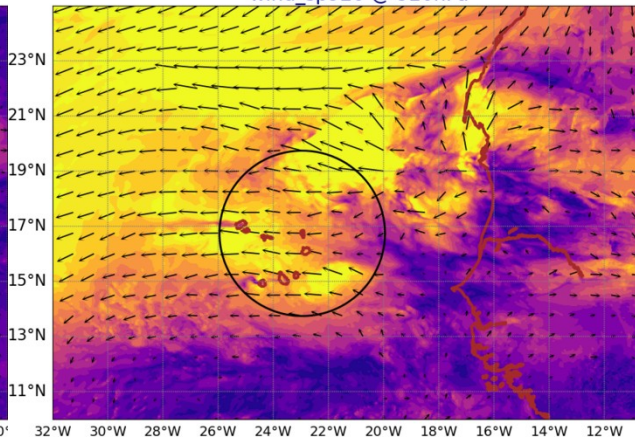
AROME25 20240620-12-UTC -ech(60h)
wind_sp700 @ 700hPa



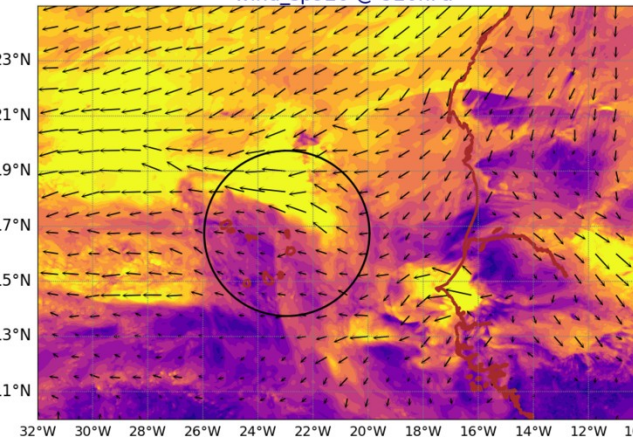
AROME25 20240618-12-UTC -ech(12h)
wind_sp920 @ 920hPa



AROME25 20240619-12-UTC -ech(36h)
wind_sp920 @ 920hPa



AROME25 20240620-12-UTC -ech(60h)
wind_sp920 @ 920hPa



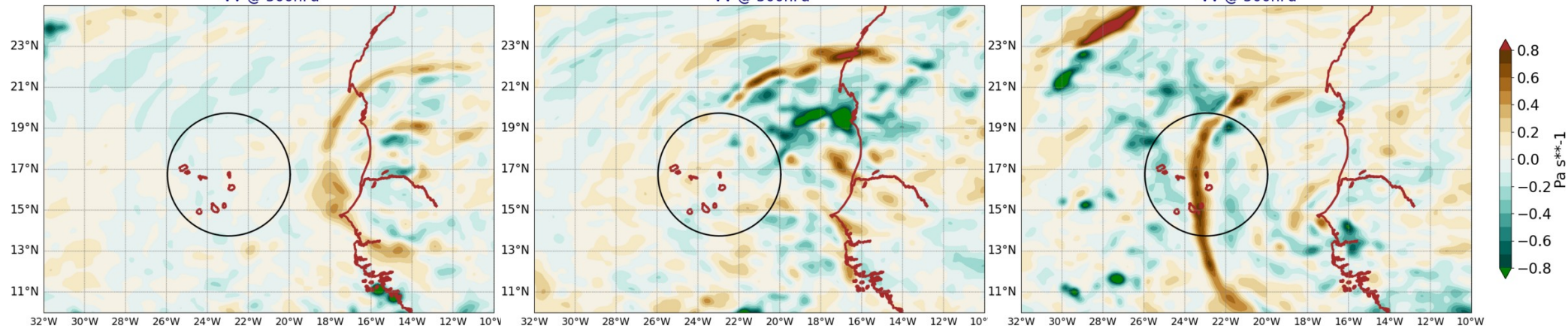
AROME VV @ 500hPa

AROME LWP+IWP

AROME25 20240618-12-UTC -ech(12h)
VV @ 500hPa

AROME25 20240619-12-UTC -ech(36h)
VV @ 500hPa

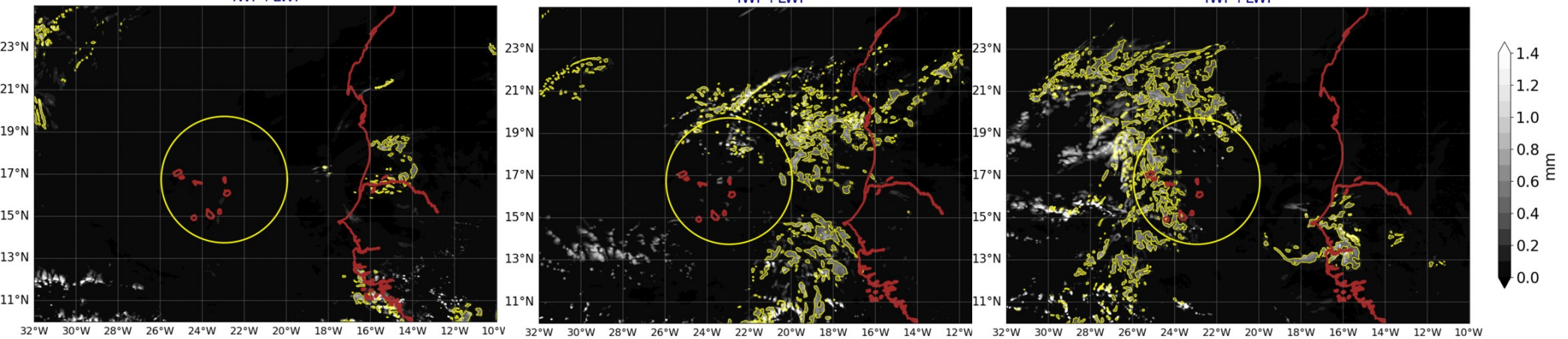
AROME25 20240620-12-UTC -ech(60h)
VV @ 500hPa



AROME25 20240618-12-UTC -ech(12h)
IWP+LWP

AROME25 20240619-12-UTC -ech(36h)
IWP+LWP

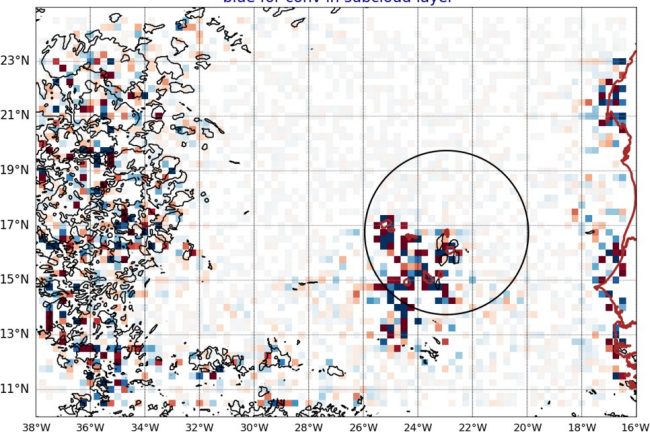
AROME25 20240620-12-UTC -ech(60h)
IWP+LWP



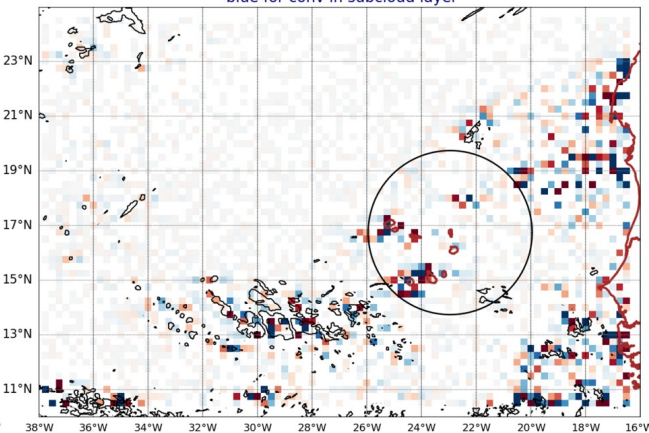
Smoc

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

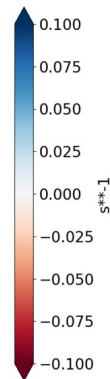
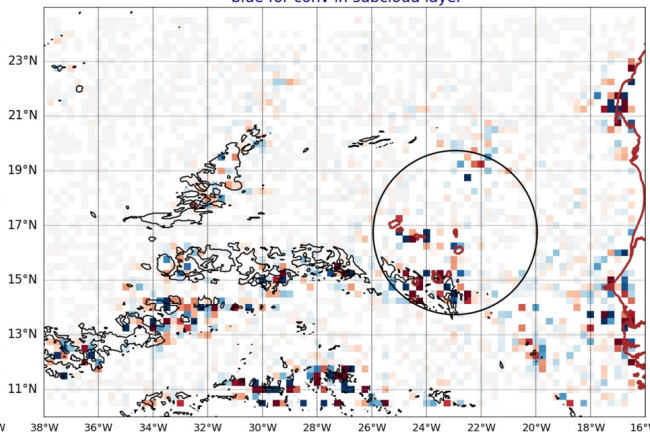
AROME25 regrid 0.25
20240618-12-UTC -ech(12h)
blue for conv in subcloud layer



AROME25 regrid 0.25
20240619-12-UTC -ech(36h)
blue for conv in subcloud layer

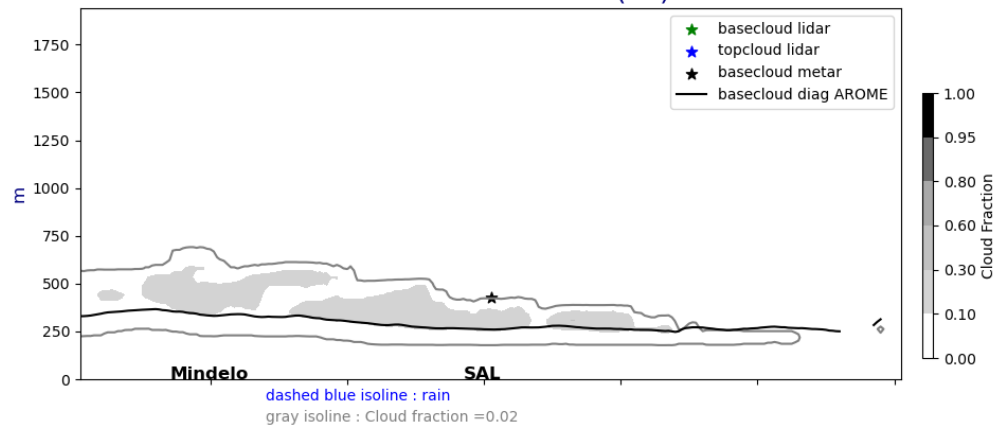


AROME25 regrid 0.25
20240620-12-UTC -ech(60h)
blue for conv in subcloud layer

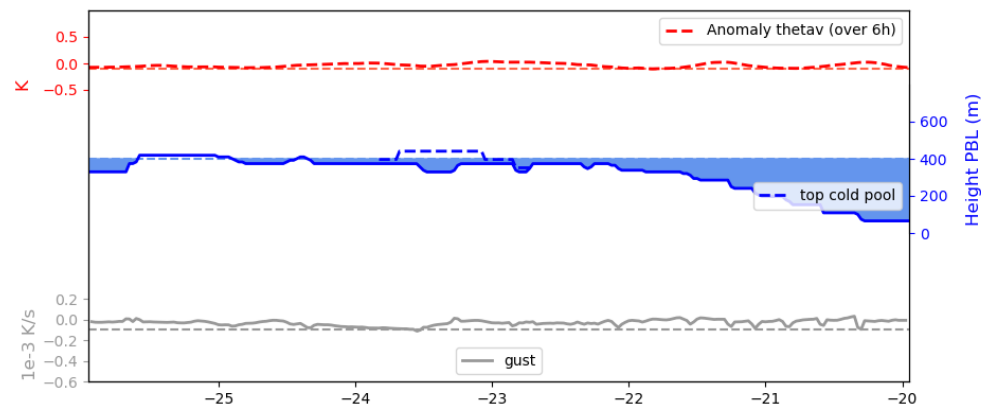
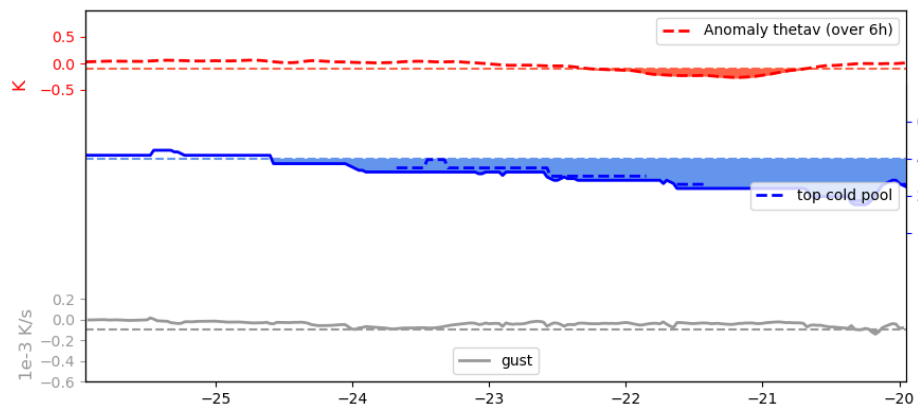
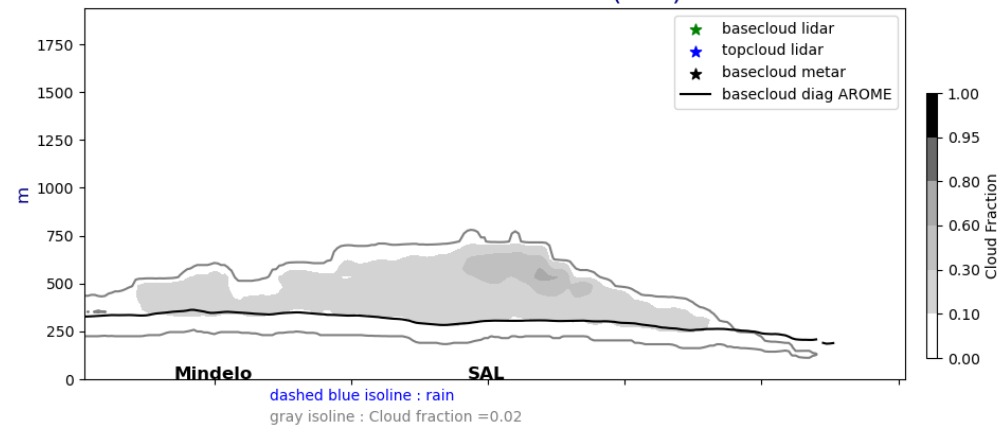


Lat. cross section @17°5N fct : 01UTC, 12UTC

Cross section E/W @ 17.5N
20240618-01-UTC ech(1h)

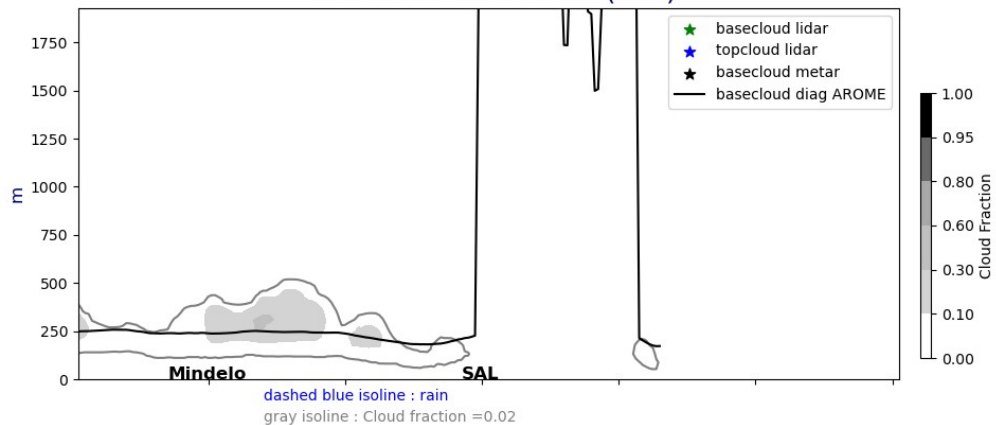


Cross section E/W @ 17.5N
20240618-12-UTC ech(12h)

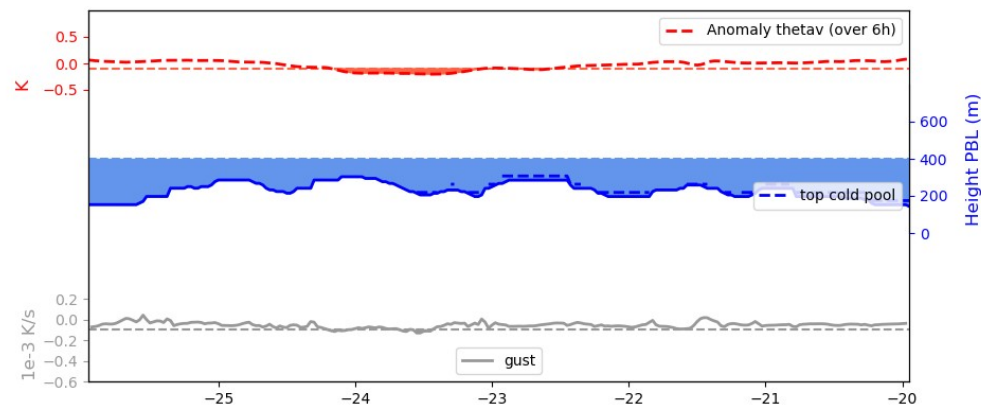
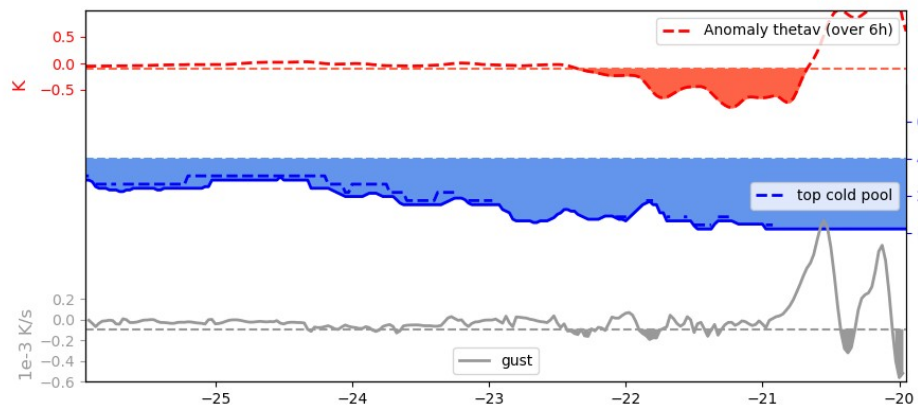
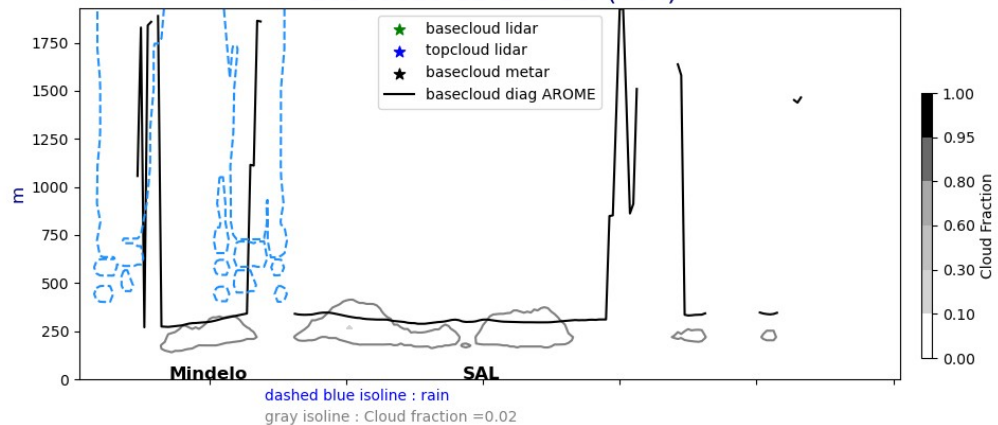


Lat. cross section @17°5N fct : J+1 and J+2 @ 12UTC

Cross section E/W @ 17.5N
20240619-12-UTC ech(36h)

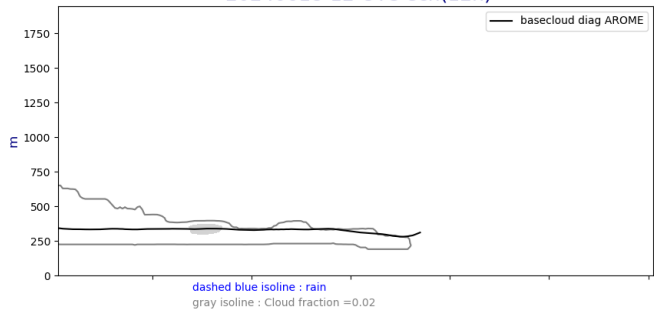


Cross section E/W @ 17.5N
20240620-12-UTC ech(60h)

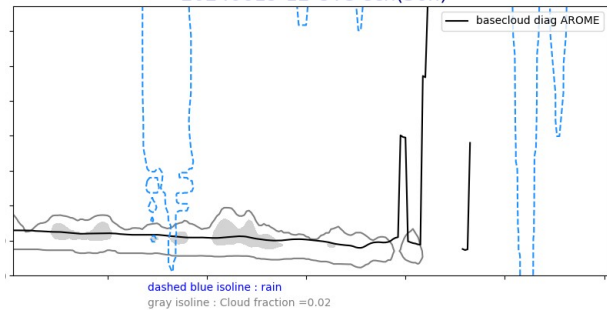


Lat. cross section @ 19°5N ech : J, J+1, J+2 @ 12 UTC

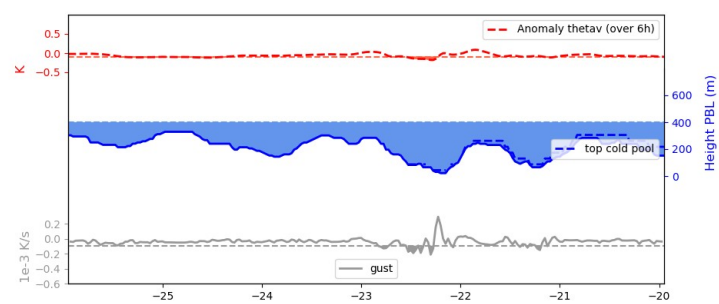
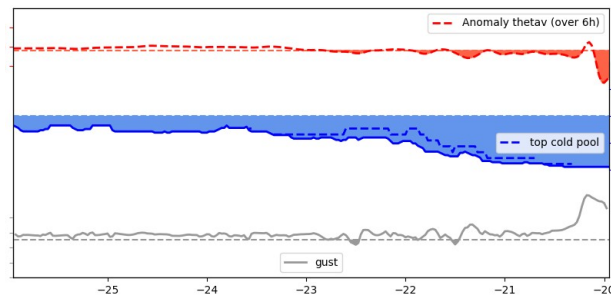
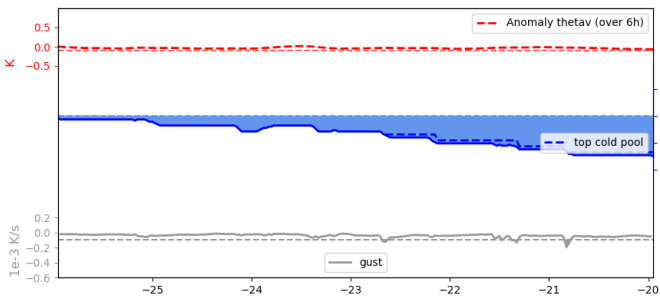
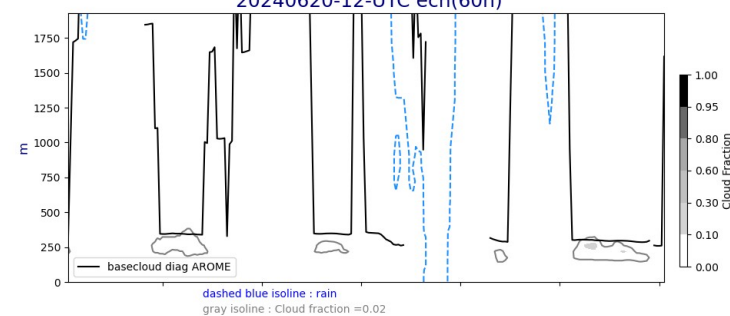
Cross section E/W @ 19.5N
20240618-12-UTC ech(12h)



Cross section E/W @ 19.5N
20240619-12-UTC ech(36h)



Cross section E/W @ 19.5N
20240620-12-UTC ech(60h)

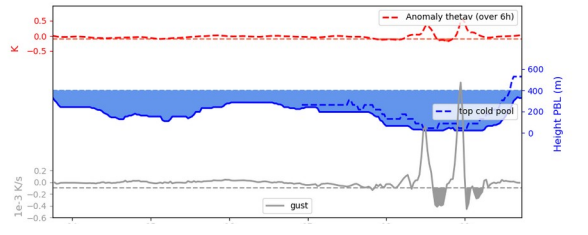
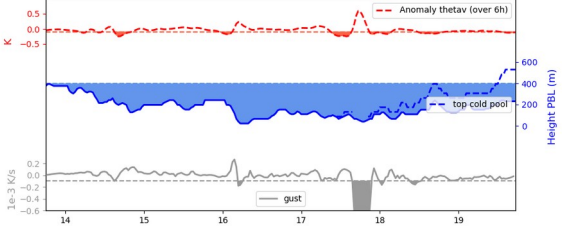
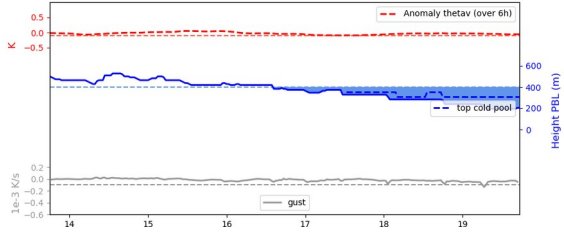
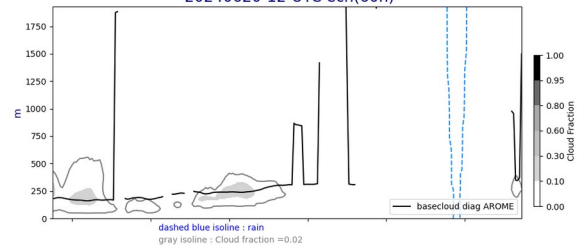
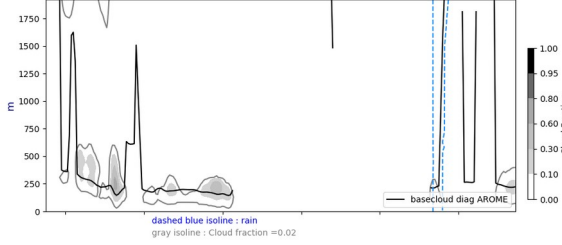
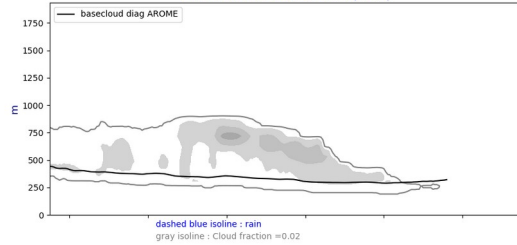


Lon. cross section @22W & 26W fct : J,J+1, J+2 @ 12 UTC

Cross section S/N @ -22W
20240618-12-UTC ech(12h)

Cross section S/N @ -22W
20240619-12-UTC ech(36h)

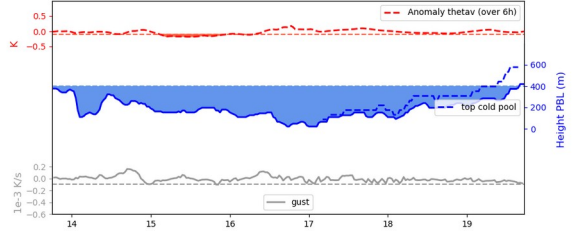
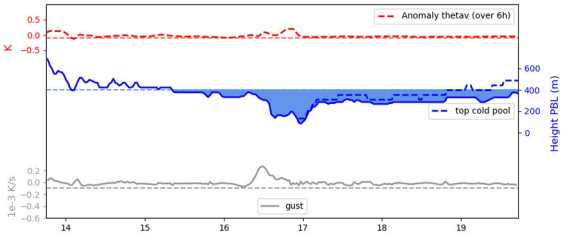
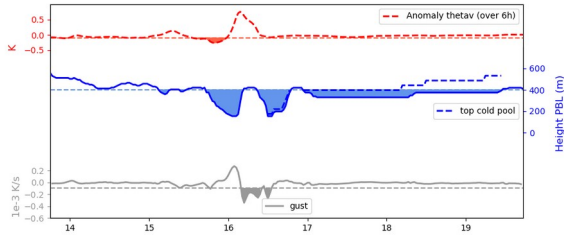
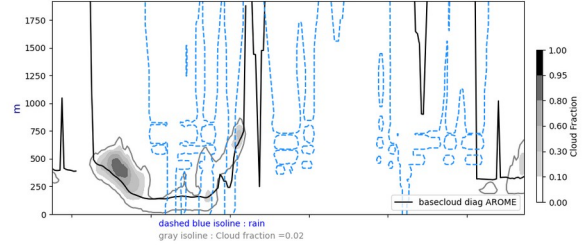
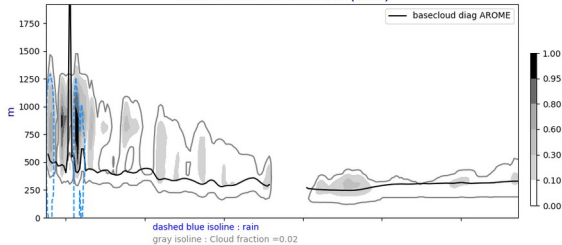
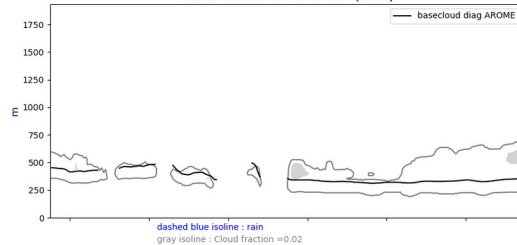
Cross section S/N @ -22W
20240620-12-UTC ech(60h)



Cross section S/N @ -26W
20240618-12-UTC ech(12h)

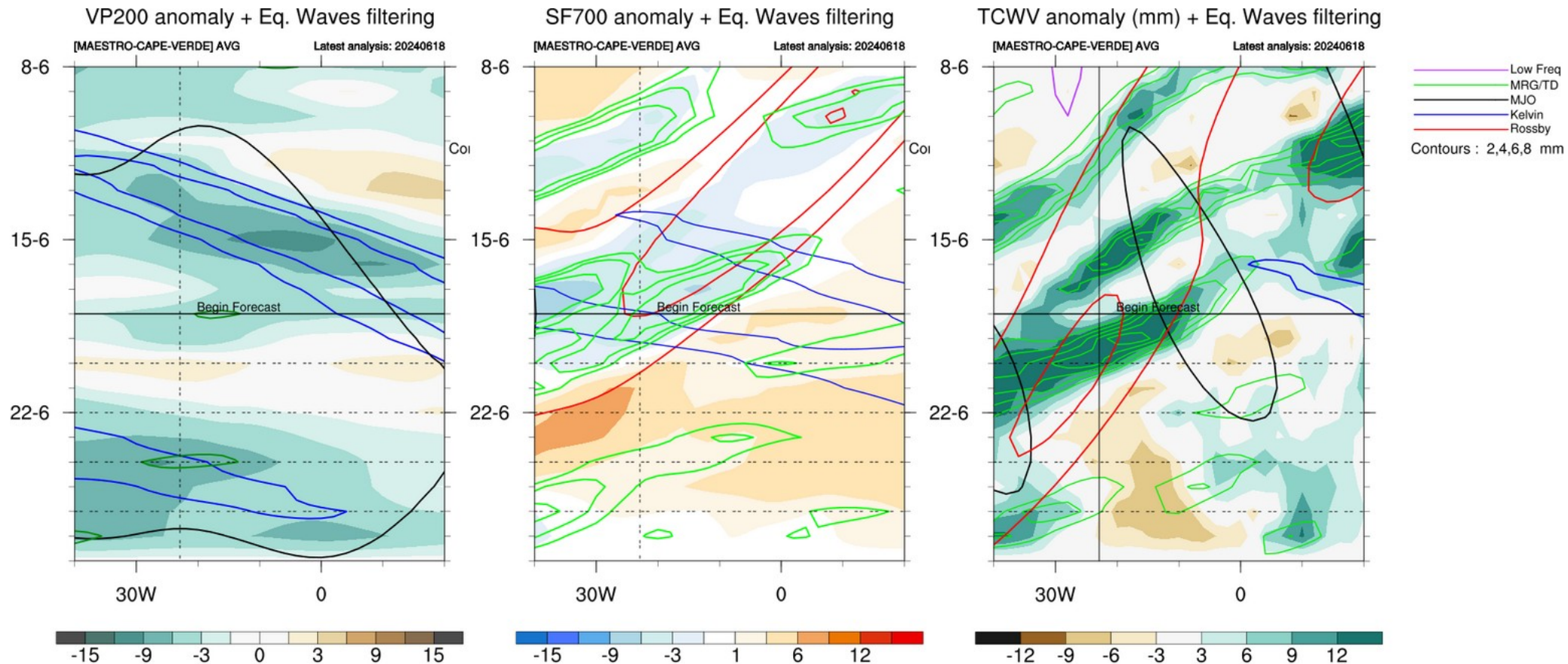
Cross section S/N @ -26W
20240619-12-UTC ech(36h)

Cross section S/N @ -26W
20240620-12-UTC ech(60h)

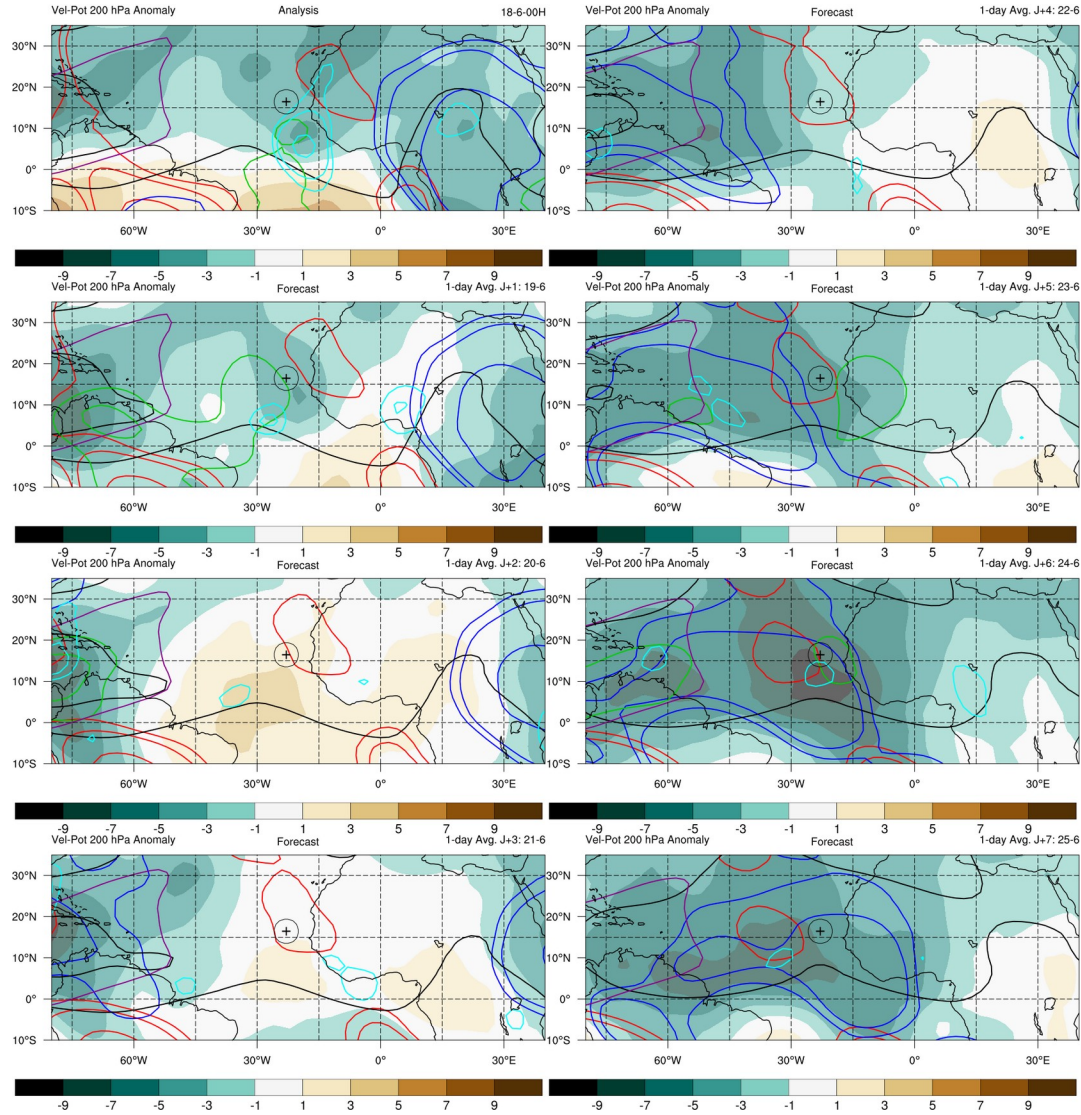


Week forecast J - J+7

Equatorial Waves filtering hovmollers

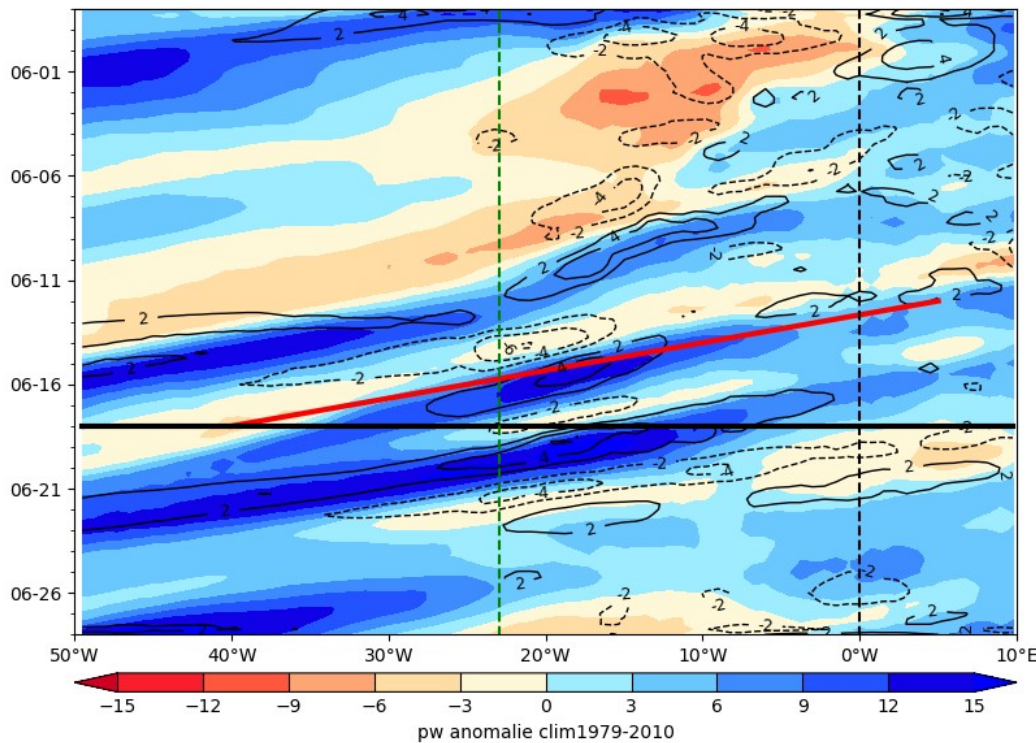


Waves : Velocity potential @ 200 hPa, day J to J+7

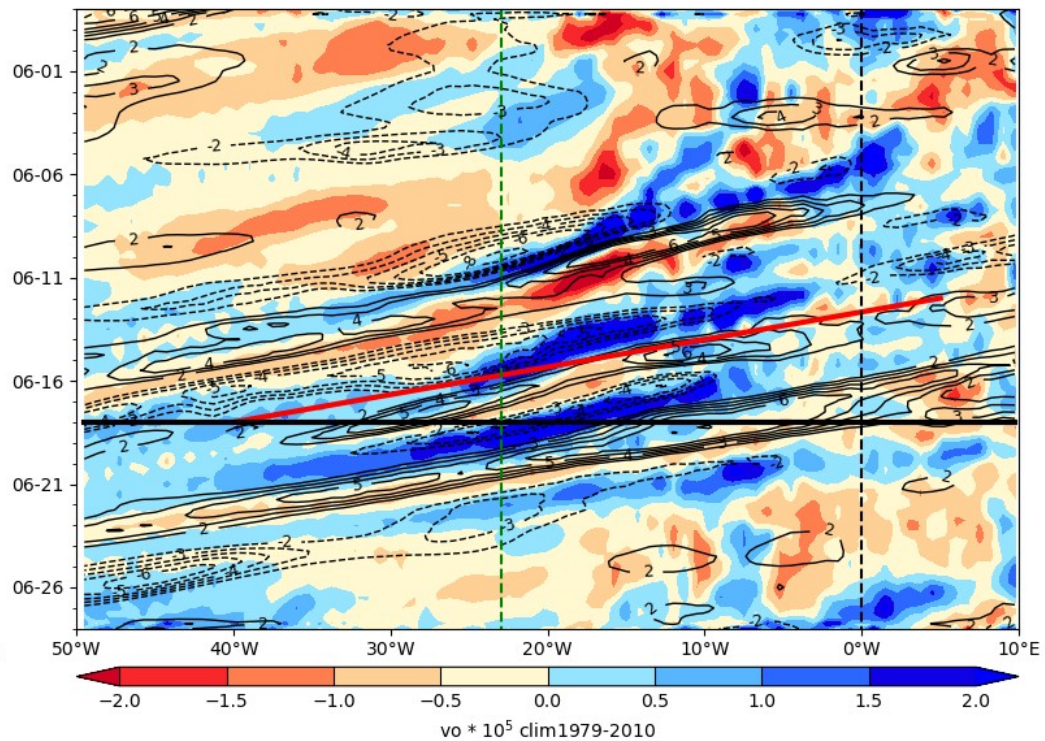


Hovmoller anomaly

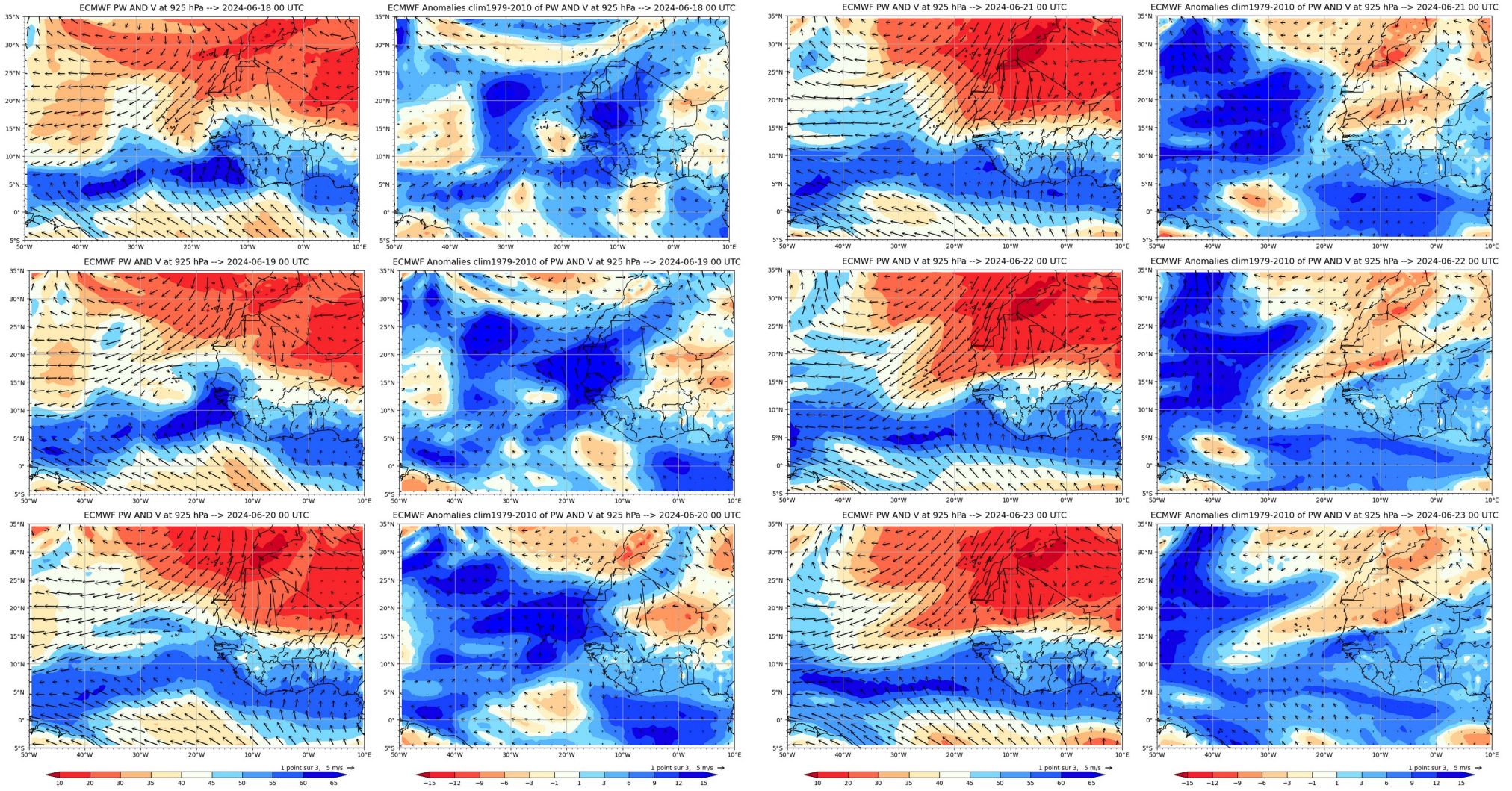
ECMWF PW (color) AND V at 925 hPa 2024-06-18



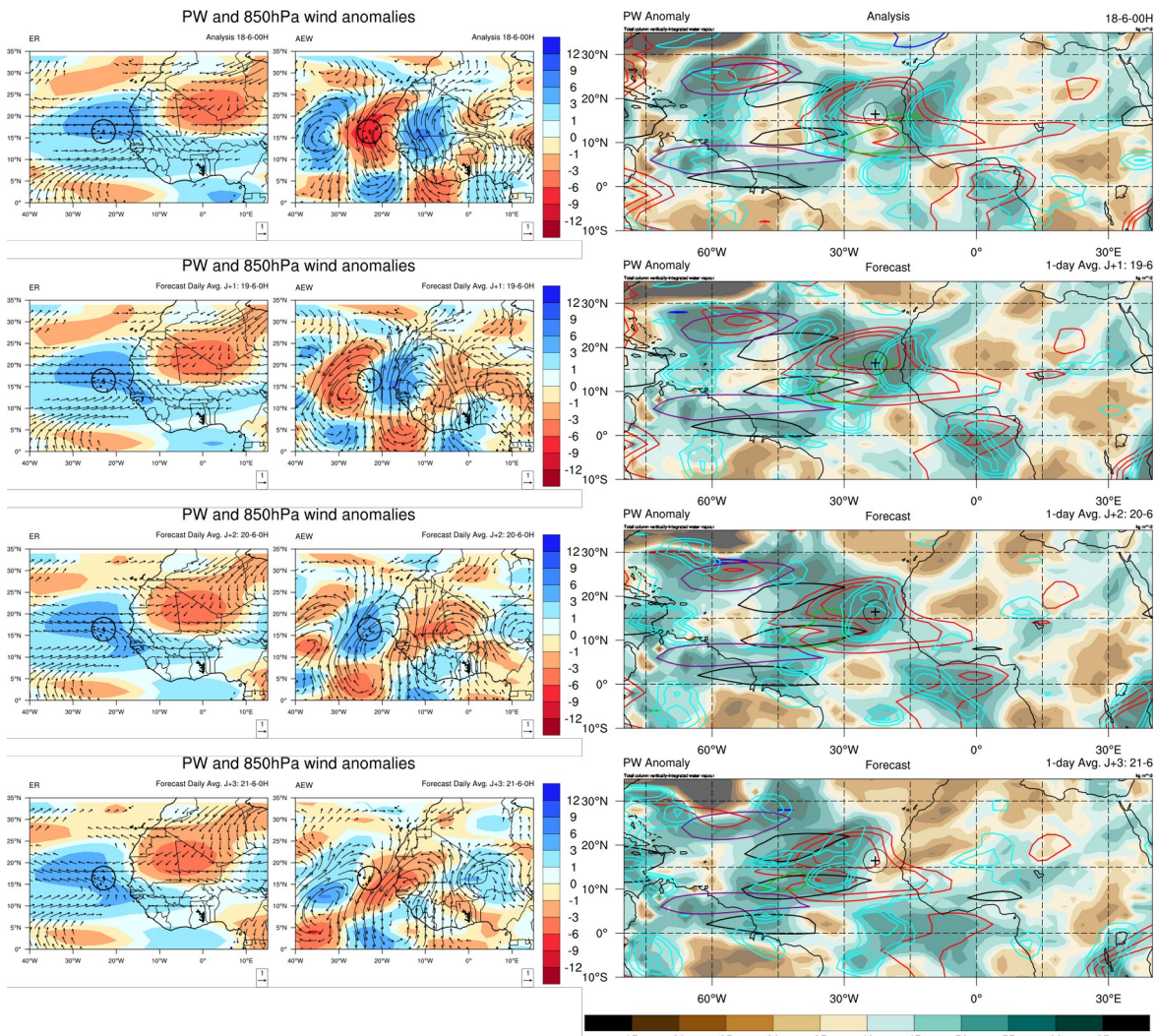
ECMWF Vorticity 850 hPa (color), V-700 hPa 2024-06-18



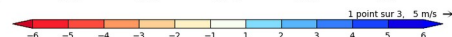
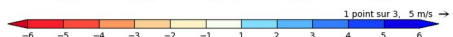
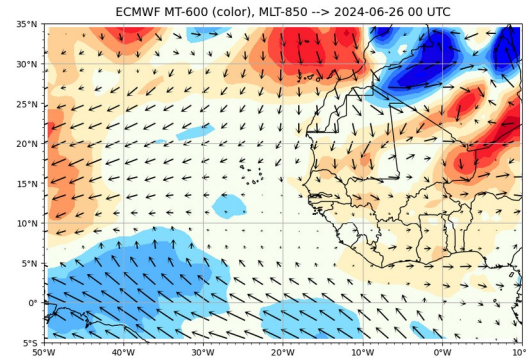
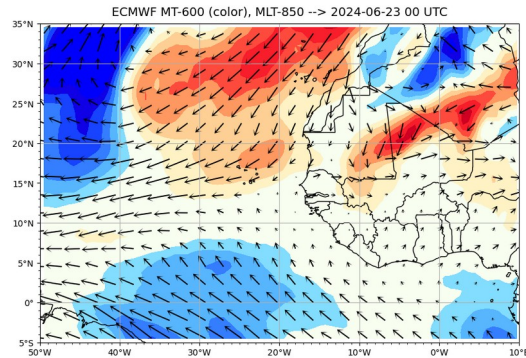
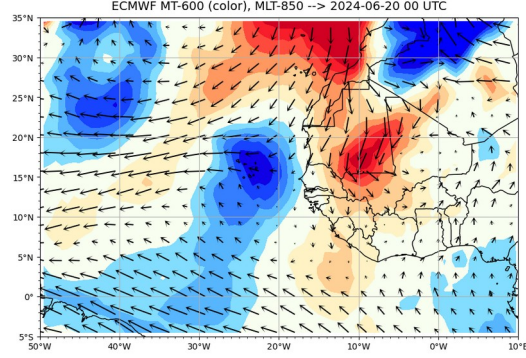
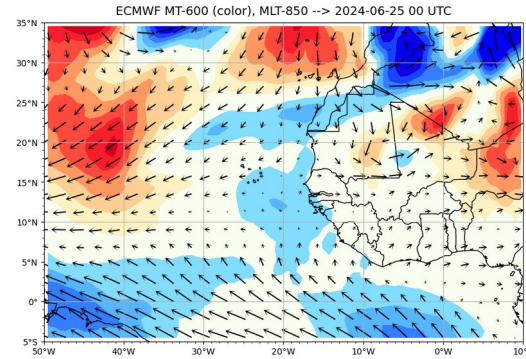
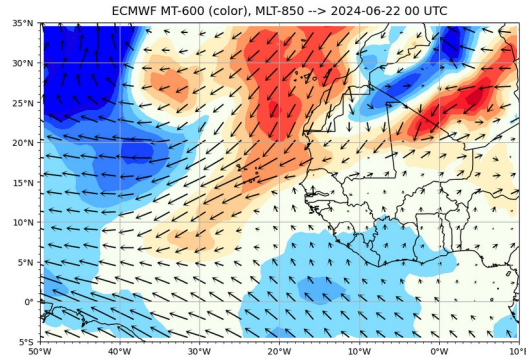
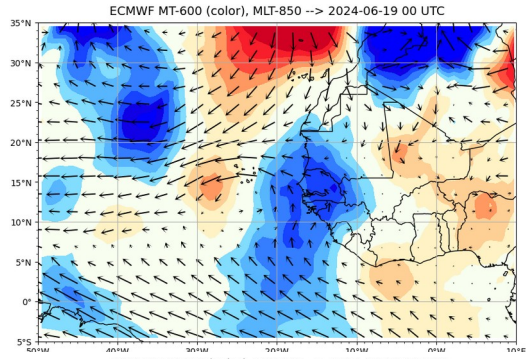
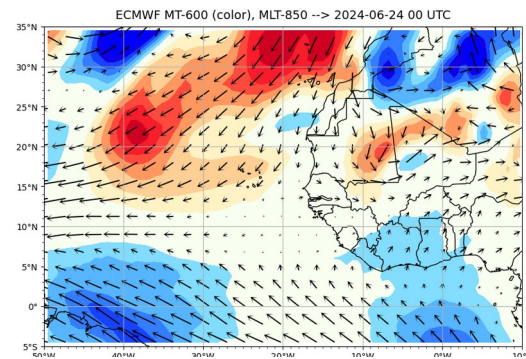
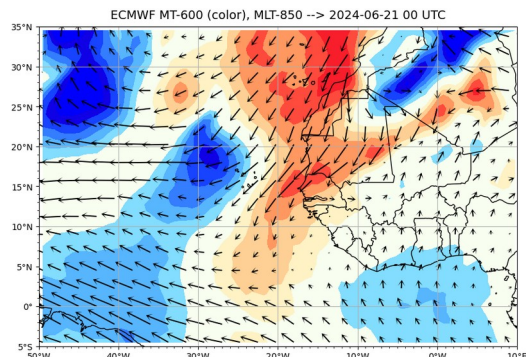
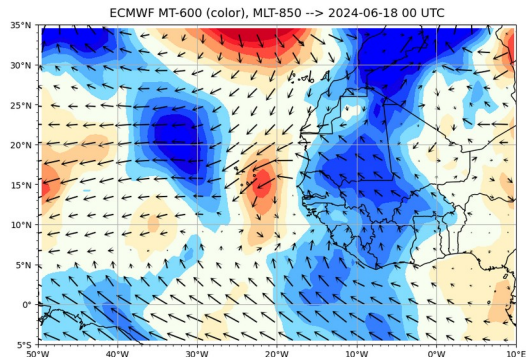
Daily PW and wind @ 925 hPa – total and anomalies



Decomposition PW/Wind and Waves contours

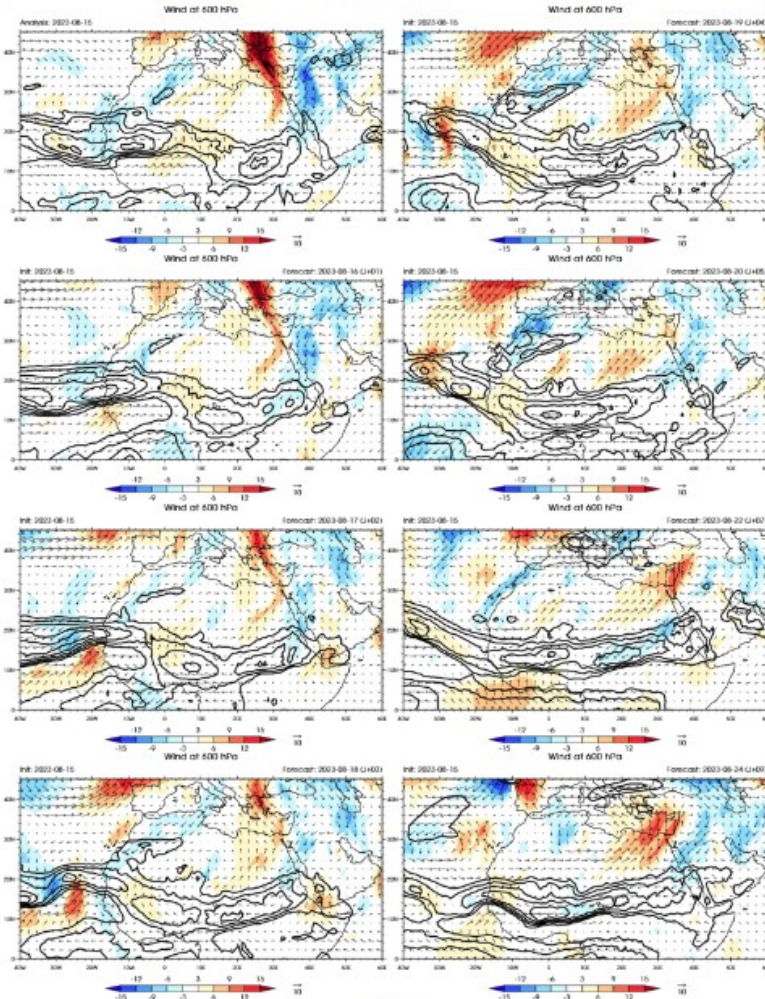


Monsoon Flow



Cartes à 600 hPa

15 août 2023



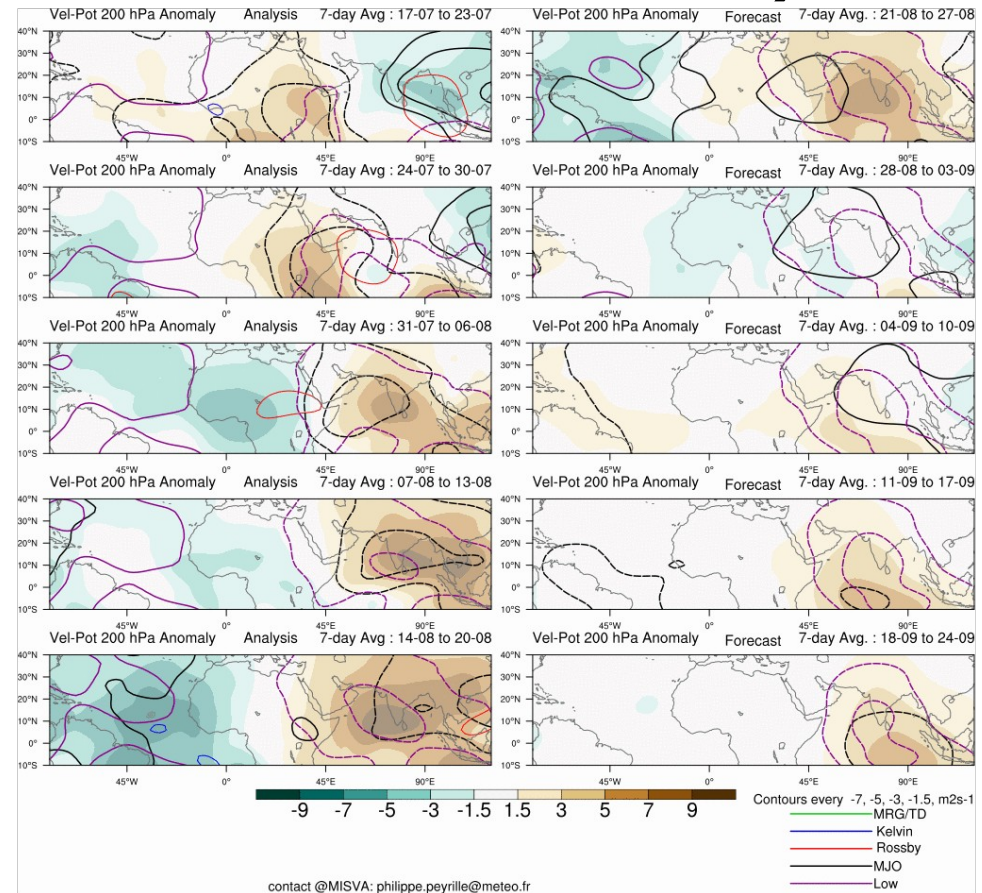
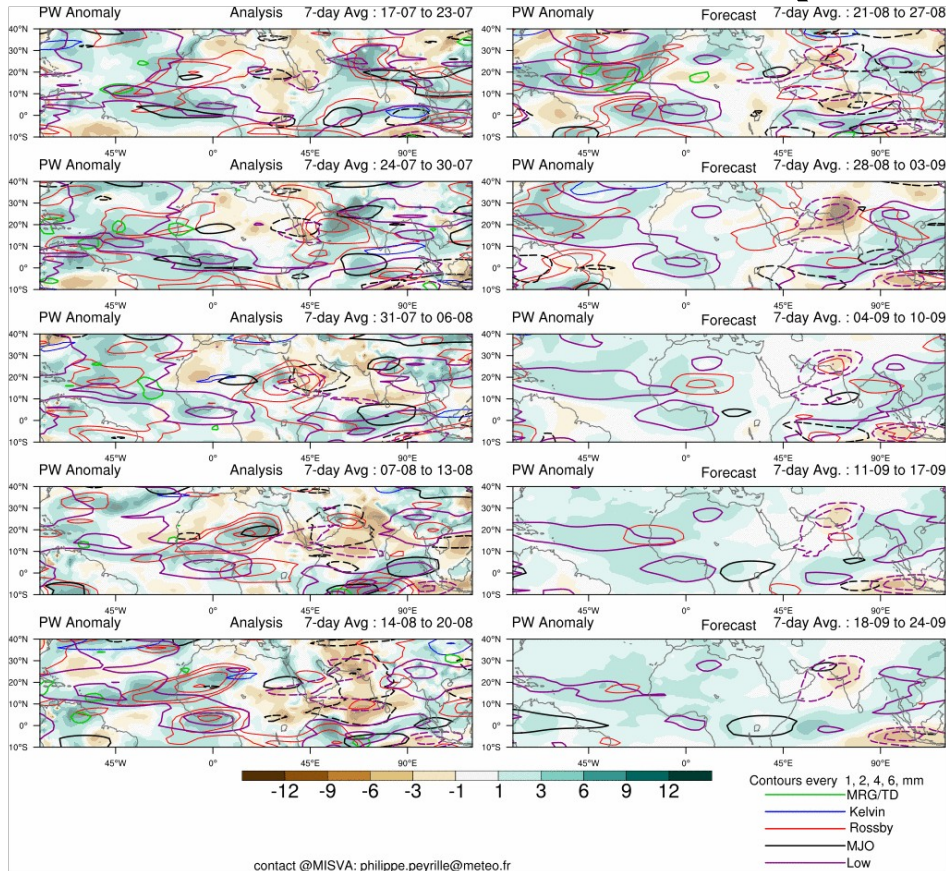
À centrer sur SAL

- To identify the African Easterly Jet (JEA)

Subseasonal forecast
(updated once a week)

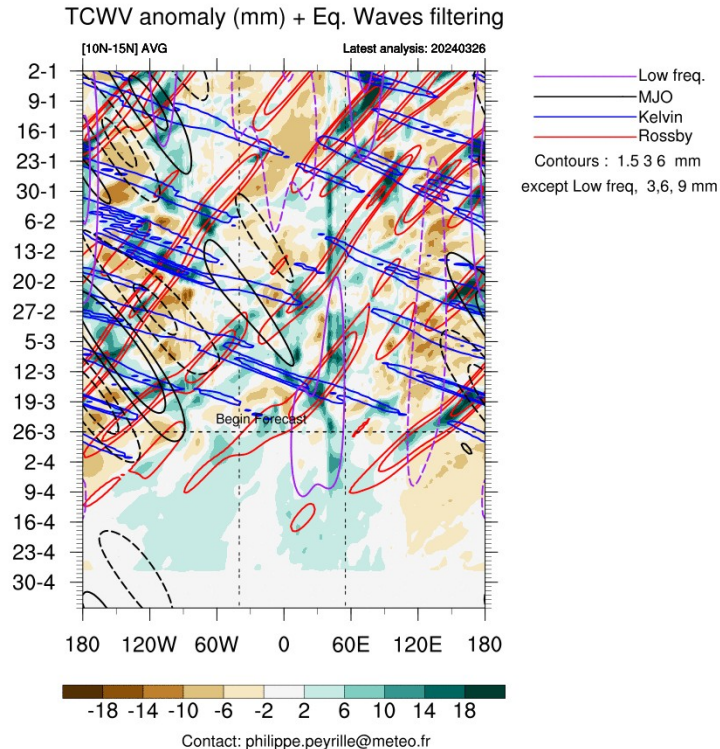
4 weeks forecast

PW et VP200 (à zoomer sur SAL)

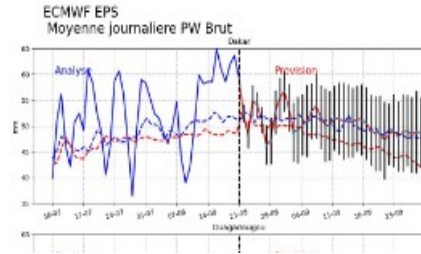
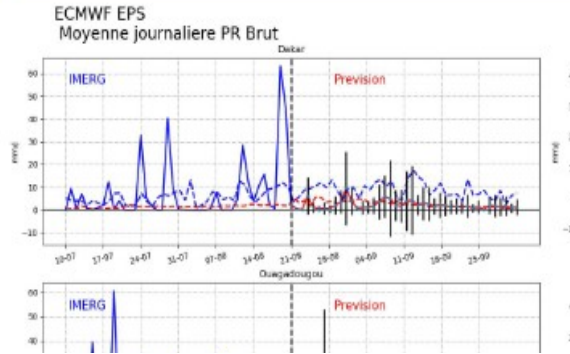


Hovmoller forecast over 4 weeks zoomé sur SAL (PW, VP, SF850)

À zoomer sur SAL (50W,
10E) sur la latitude de
SAL $\pm 1.5^\circ$

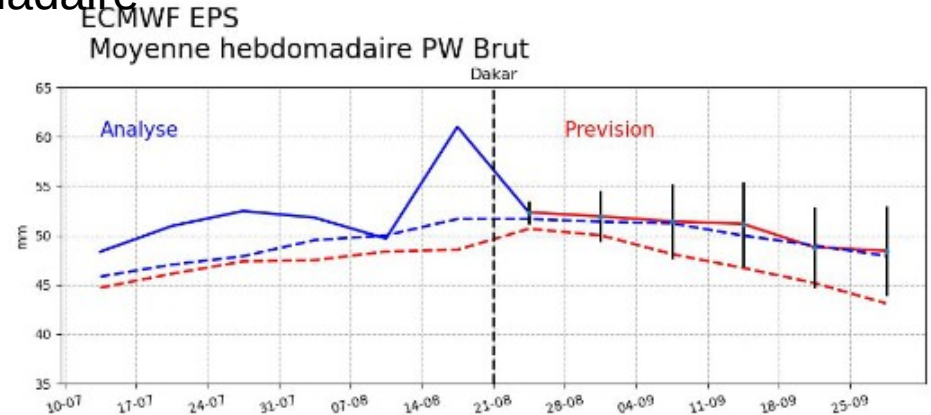
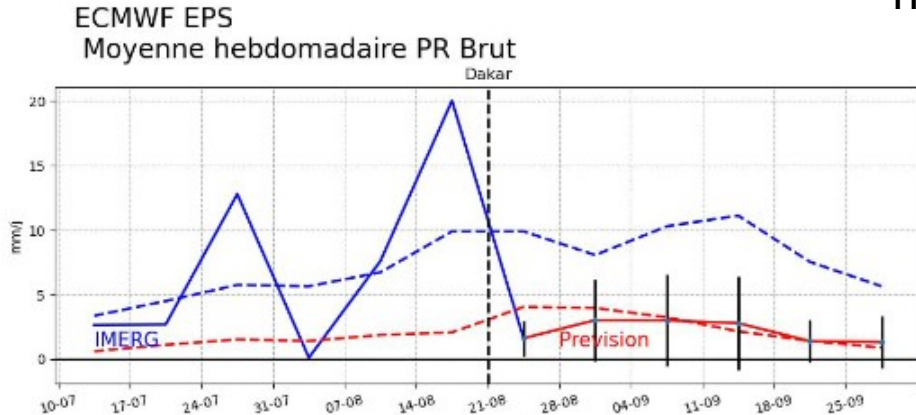


Temporal evolution PW, PR centrer sur SAL (+ EKE)



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							

