Dry
IntrusionIncreasing
Pressure
Tendencydecreasing
Pressure
TendencyWind
Streamlines

Isobar

Region

Africa

Date

2021 10 05

Forecast Time

0000 + 12 hrs

Data

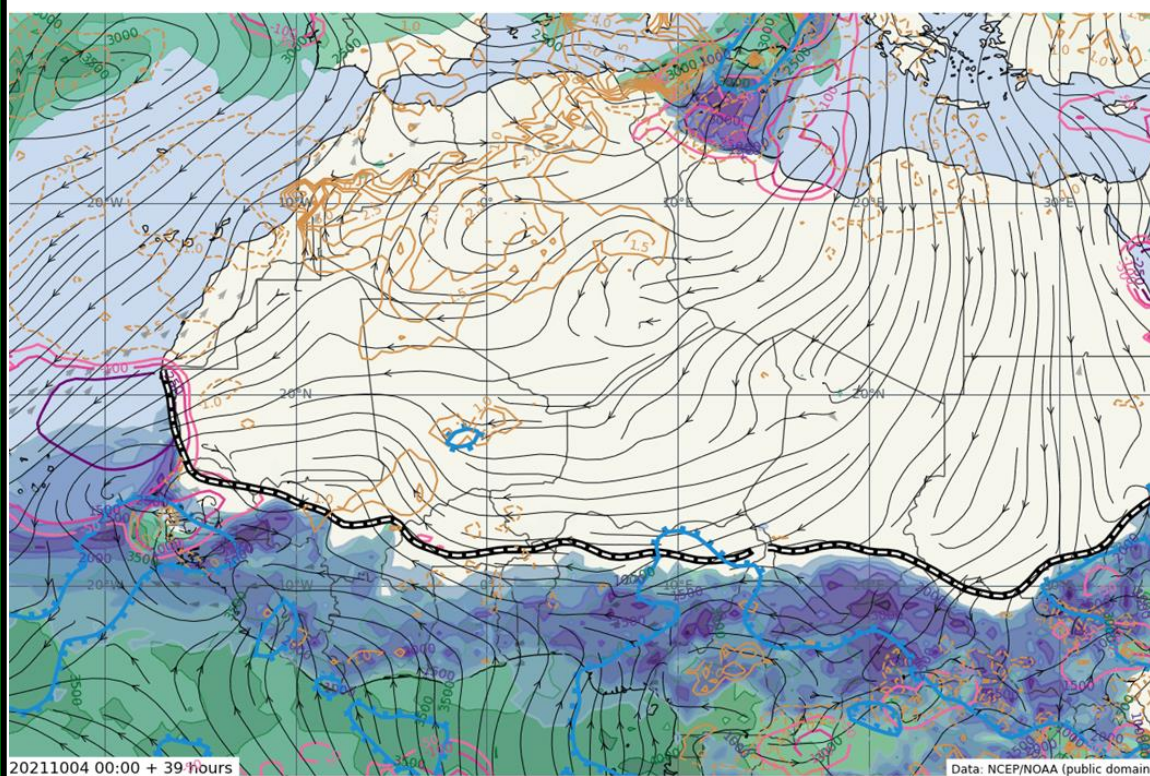
GFS synthetic
analysis chart

24 hr Regional Synoptic Summary

Azores high is expected to move eastwards while maintaining its intensity (1024hPa) and extending a ridge over Morocco and Algeria. St Helena high center is expected to move eastward while weakening (from 1028hPa to 1024hPa) and extending a ridge over South Africa.

Mascarenes high is expected to move eastwards and maintain its intensity at 1020hPa. ITD is expected to remain quasi-stationary during the day. The monsoon flow penetration will be up to 15°N. Higher values of the monsoon depth (4000 m) are expected over Nigeria and Cameroon while lower values are expected over southern Sahel (2500m). Dry air is expected to extend over western parts of West Africa. AEJ are expected to occur over Cameroon, Nigeria and Benin.

Trough is observed off the coast of Cape Verde



STJ



TEJ



AEJ



ITD

Monsoon
troughMonsoon
ridge

Region

West Africa

Date

2021 10 05

Forecast Time

0000 + 39 hours

Data

GFS synthetic
analysis chart

24-72 hr Regional Synoptic Summary

Azores high will remain quasi-stationary while weakening from 1024hPa to 1022hPa and this is due to the trough deepening northwards of the area.

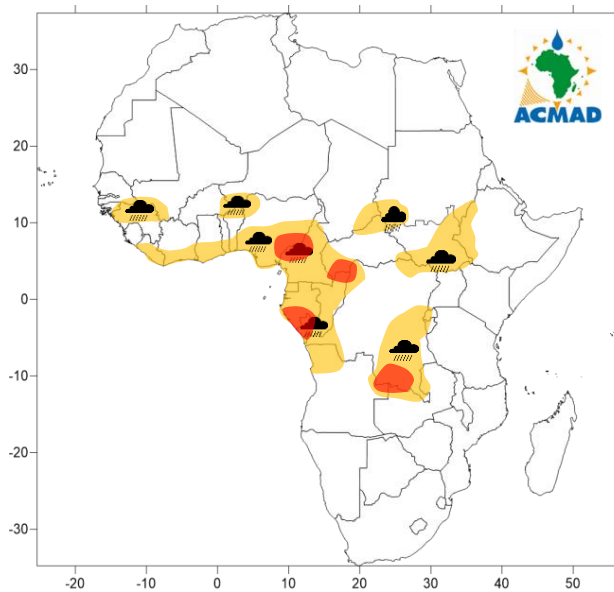
St-Helena will weak and remain quasi-stationary from 1024hPa to 1020hPa.

Mascarene is expected to be at the southeast coast south Africa and remain strong 1024hPa. ITD is expected to slightly move southward.

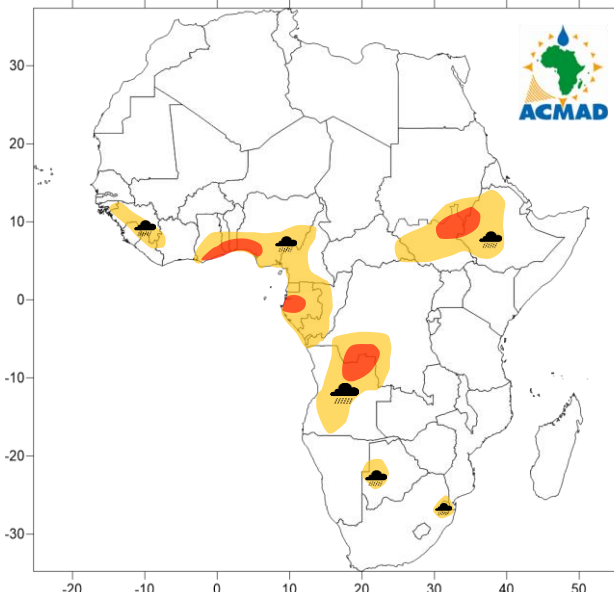
Monsoon flux penetration will be up to 16°N. Higher values of the monsoon depth (4000 m) are expected over west African coastal areas and central Africa countries and lower values are expected over southern Sahel (2400m).

Dry air is expected to extend over all the Sahel and moist air will be confined over west Africa countries and the Central Africa.

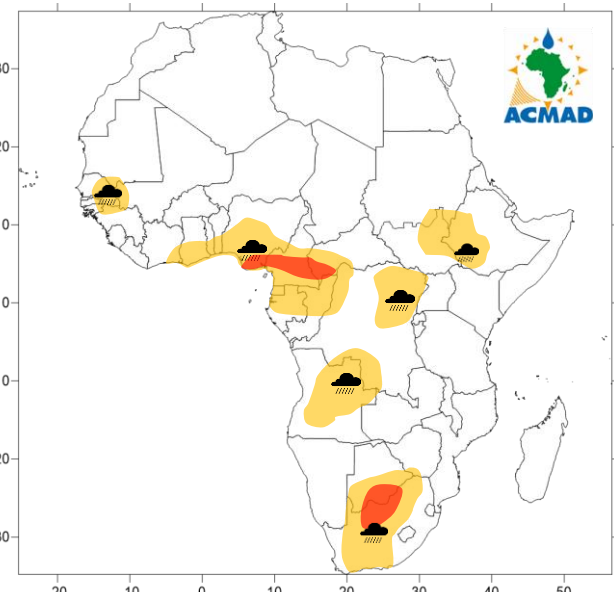
2021 -10-05



2021-10-06



2021-10-07



Region

Africa

Date

2021 10 05

Time

05-07/10/2021

Data

NCEP-NOAA/SWIFT,
ECMWF, ARP-PUMA

Forecast Risk

Be aware

Be Prepared

Take Action

Weather Forecasting Risk Table

Likelihood	Very high	E1	E2	E3	E4	E5
	High	D1	D2	D3	D4	D5
	Medium	C1	C2	C3	C4	C5
	Low	B1	B2	B3	B4	B5
	Very low	A1	A2	A3	A4	A5
		Very low	Low	Medium	High	Very High
		Impact				

Take Action

Be Prepared

Be aware

Low risk

Weather Icons



Rain



Wind



Dust

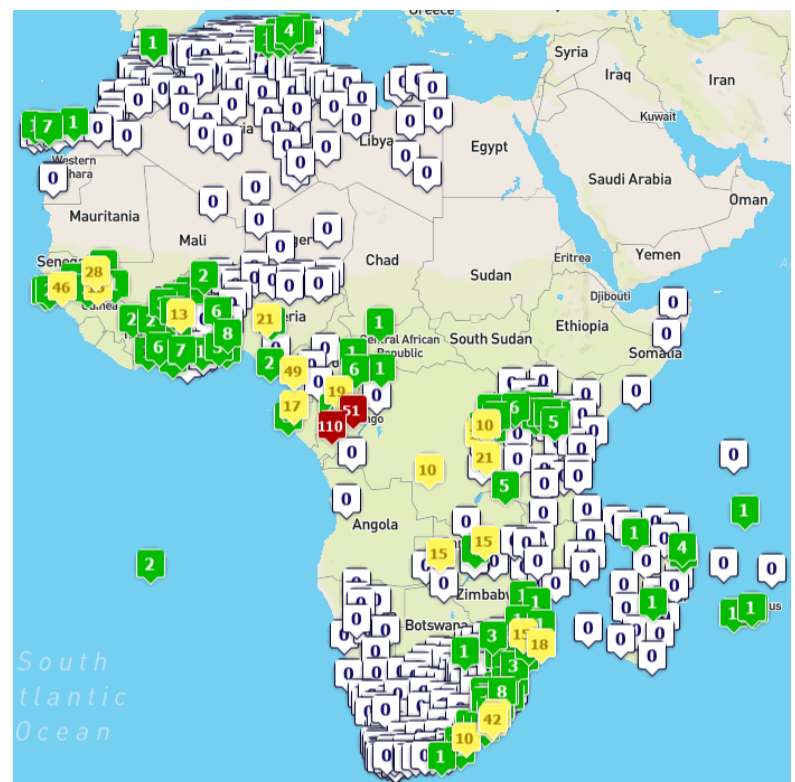
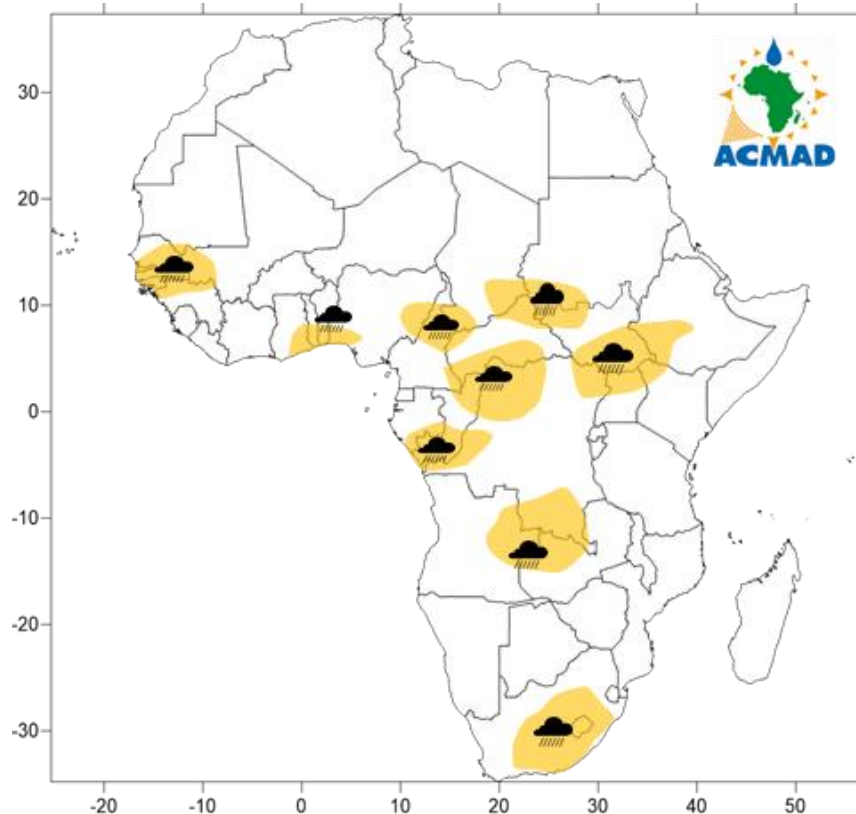


Hail



Forecast issued on 2021 10 04 for 2021 10 04

2021 10 04 24H rain gauge observation



Data: Reports from GTS on 2021 10 05 at 06UTC

http://154.66.220.45:8080/thredds/fileServer/ACMAD/WWFD/verification/service/OBS/ARCHIVE/RR24_20211005.html

MSG-AFR IR_108 on 04/10/2021 at 15:00 UTC

