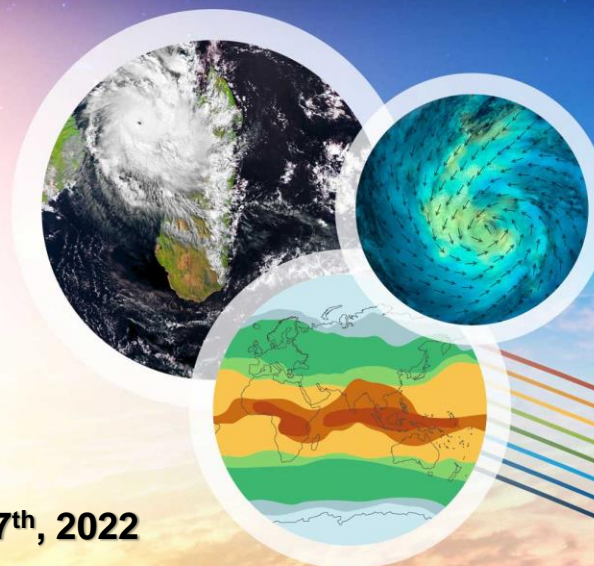
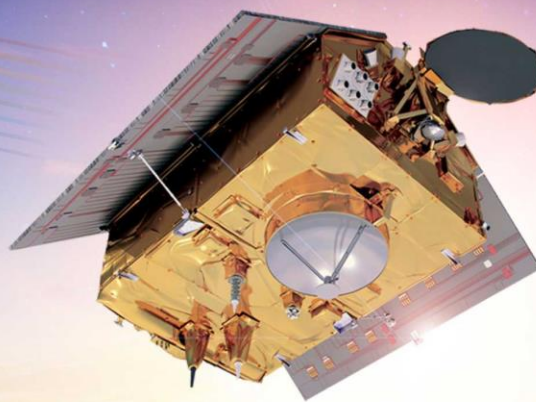


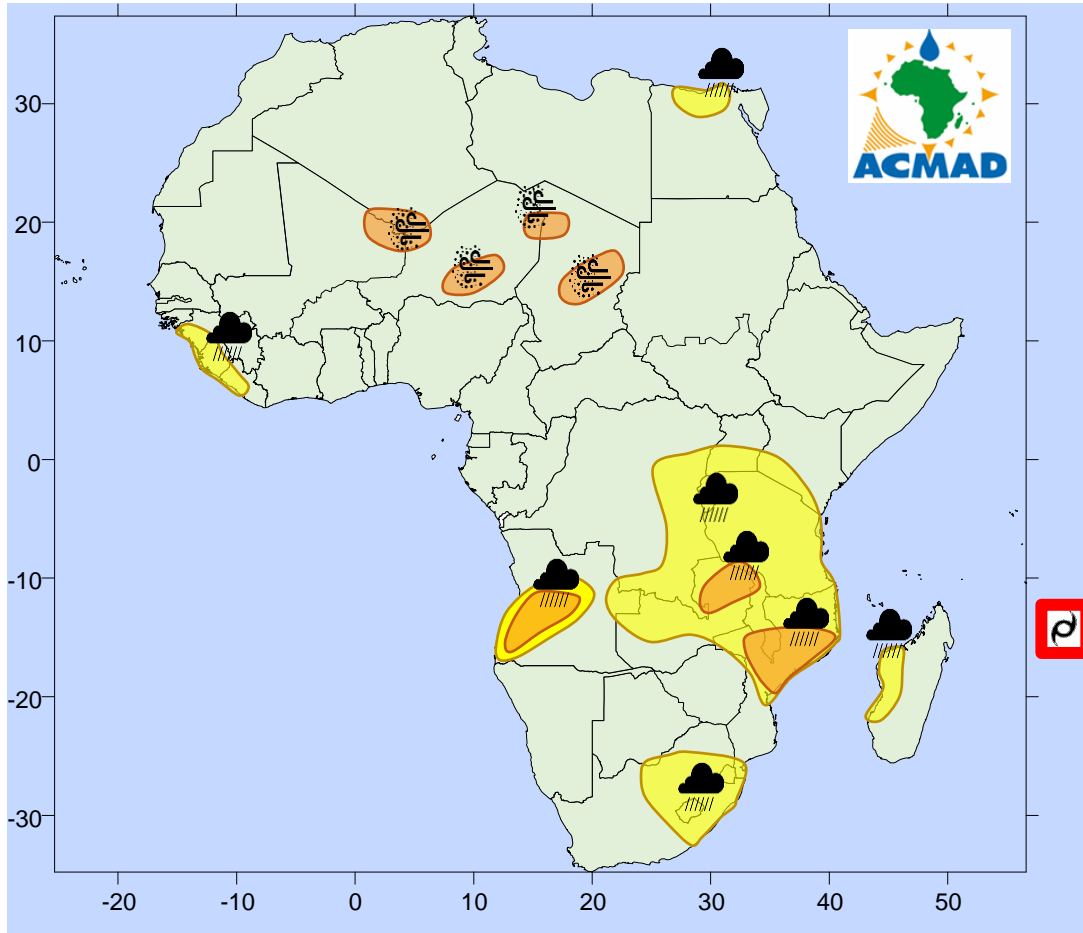
# African Centre of Meteorological Applications for Development (ACMAD)

## Continental Multi-Hazard & Advisory Bulletin



**Issued on: February 17<sup>th</sup>, 2022**





**Validity period: February 18<sup>th</sup> to 22<sup>nd</sup>, 2022**




# MULTI-HAZARD OUTLOOK

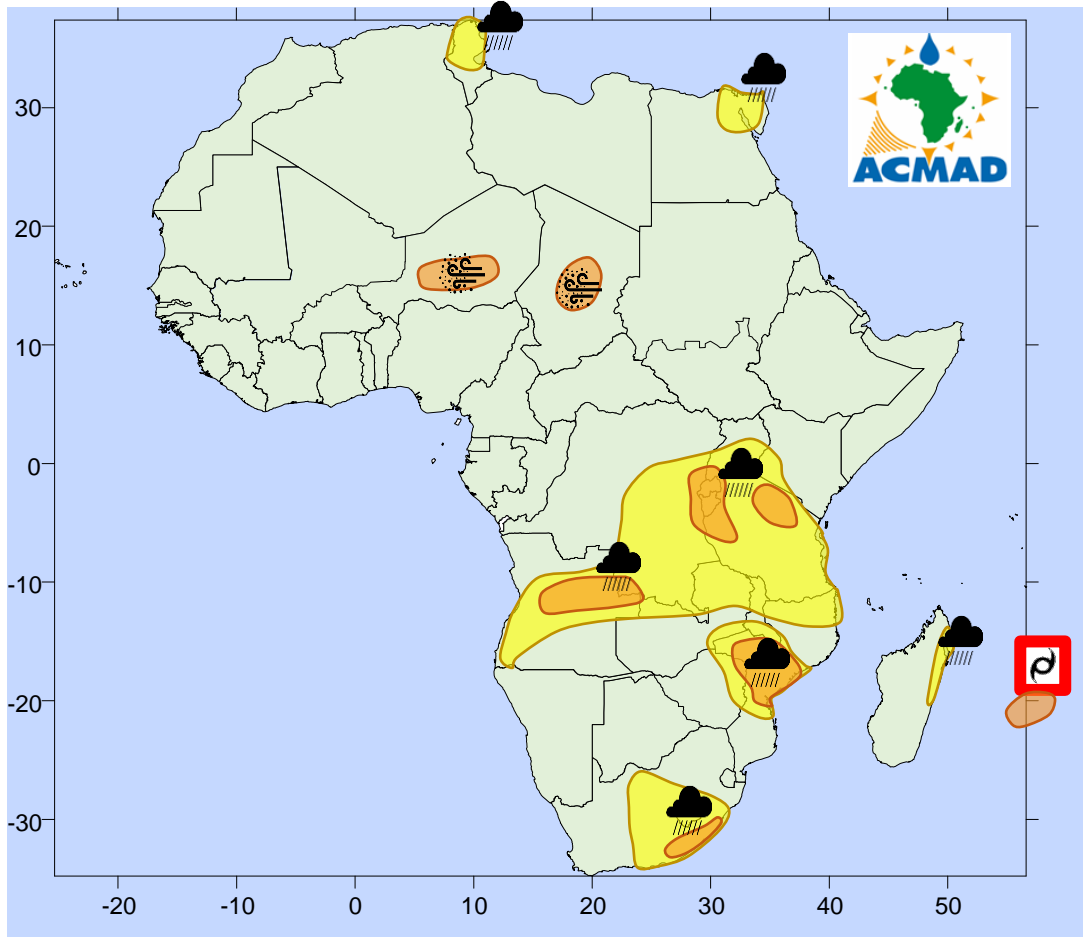
**Validity: 2022-02-18**

issued on 2022-02-17

 Rain	 Wind	 Dust	 Meningitis
Very heavy >100mm	Very strong >80kmh <sup>-1</sup>	Very heavy >1000µg m <sup>-3</sup>	Very likely
Heavy 50-100mm	Strong >65kmh <sup>-1</sup>	Heavy >600µg m <sup>-3</sup>	Likely
Moderate 10 - 49mm	Moderate >50kmh <sup>-1</sup>	Moderate >400µg m <sup>-3</sup>	Less likely
Light 1 - 10mm	Light <50kmh <sup>-1</sup>	Light <200µg m <sup>-3</sup>	

 Tropical Cyclone
Tropical Cyclone >118km/h
Severe tropical storm 89 – 117km/h
Moderate tropical storm 63-88km/h
Tropical Depression 51 – 62km/h










# MULTI-HAZARD OUTLOOK

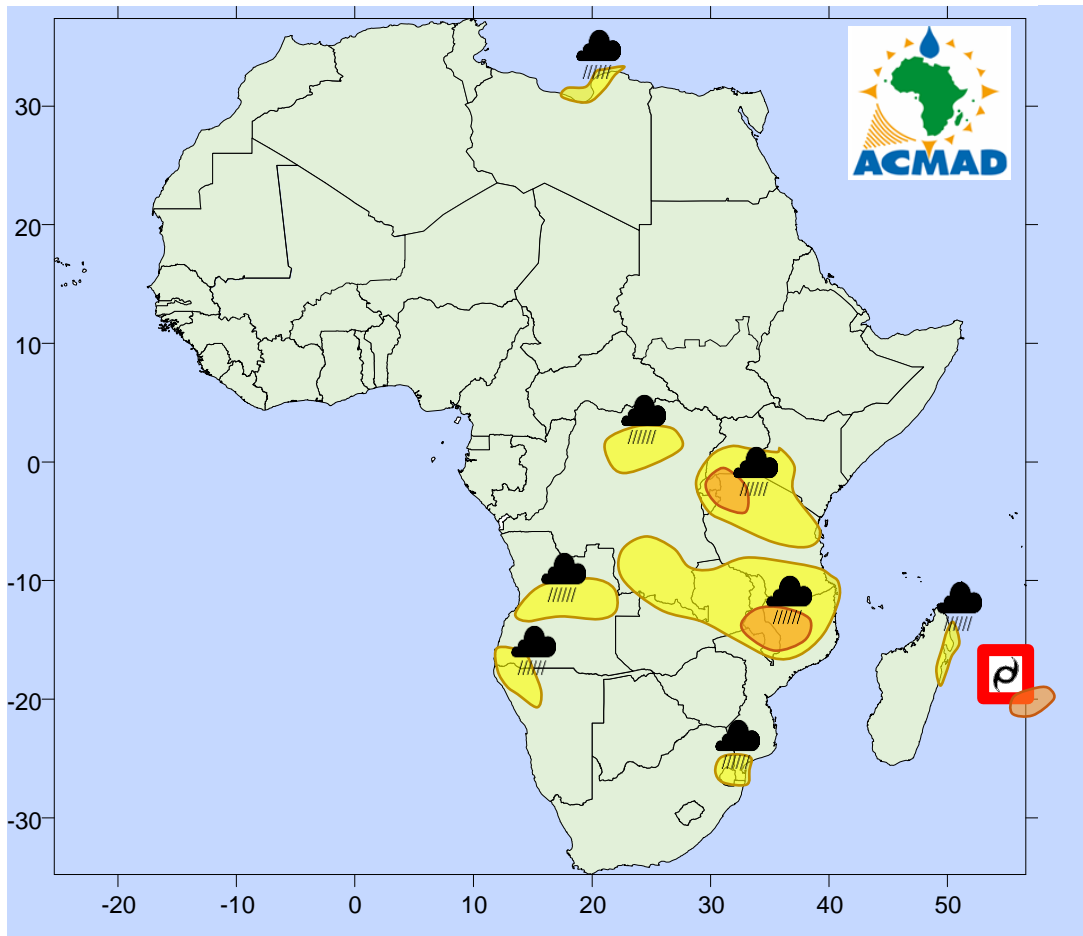
**Validity: 2022-02-19**

*issued on 2022-02-17*

 Rain	 Wind	 Dust	 Meningitis
Very heavy >100mm	Very strong >80kmh <sup>-1</sup>	Very heavy >1000µg m <sup>-3</sup>	Very likely
Heavy 50-100mm	Strong >65kmh <sup>-1</sup>	Heavy >600µg m <sup>-3</sup>	Likely
Moderate 10 - 49mm	Moderate >50kmh <sup>-1</sup>	Moderate >400µg m <sup>-3</sup>	Less likely
Light 1 - 10mm	Light <50kmh <sup>-1</sup>	Light <200µg m <sup>-3</sup>	

 Tropical Cyclone
Tropical Cyclone >118km/h
Severe tropical storm 89 – 117km/h
Moderate tropical storm 63-88km/h
Tropical Depression 51 – 62km/h










# MULTI-HAZARD OUTLOOK

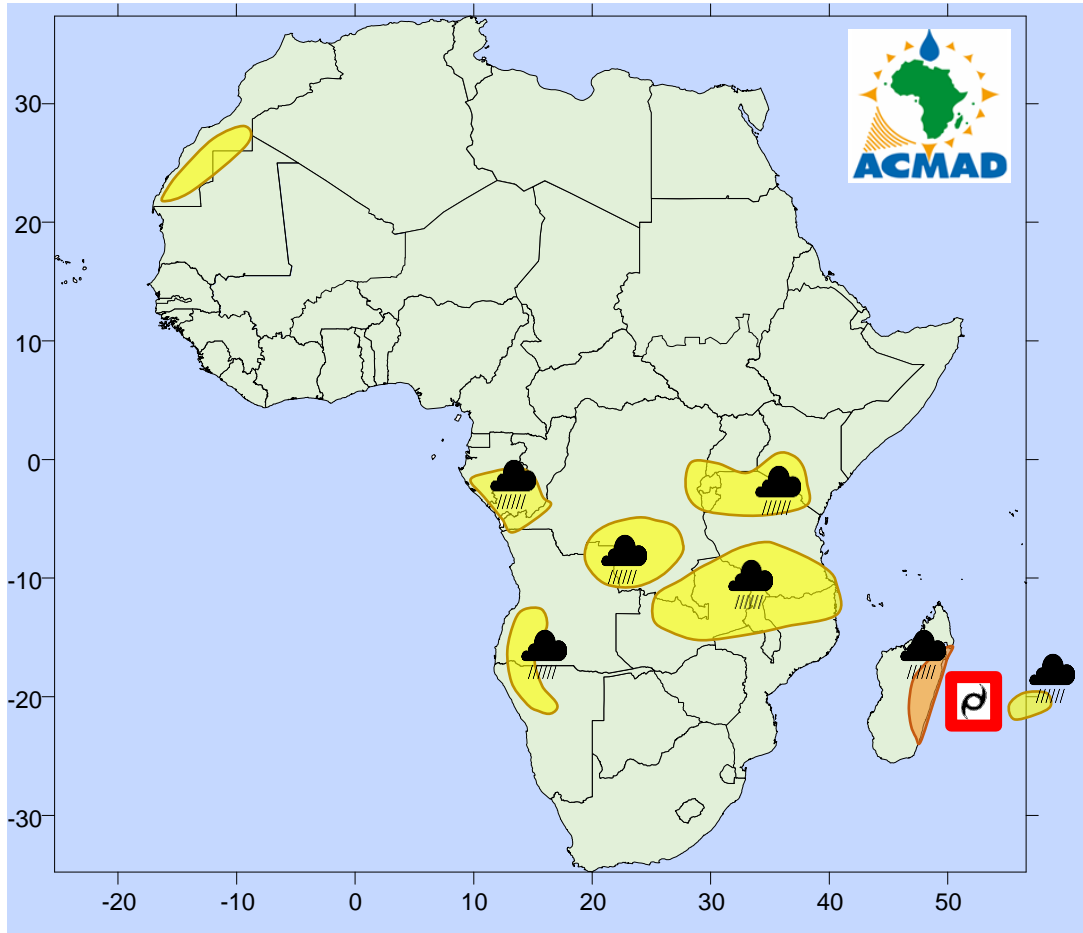
**Validity: 2022-02-20**

*issued on 2022-02-17*

 Rain	 Wind	 Dust	 Meningitis
Very heavy >100mm	Very strong >80kmh <sup>-1</sup>	Very heavy >1000µg m <sup>-3</sup>	Very likely
Heavy 50-100mm	Strong >65kmh <sup>-1</sup>	Heavy >600µg m <sup>-3</sup>	Likely
Moderate 10 - 49mm	Moderate >50kmh <sup>-1</sup>	Moderate >400µg m <sup>-3</sup>	Less likely
Light 1 - 10mm	Light <50kmh <sup>-1</sup>	Light <200µg m <sup>-3</sup>	


Tropical Cyclone >118km/h
Severe tropical storm 89 – 117km/h
Moderate tropical storm 63-88km/h
Tropical Depression 51 – 62km/h










# MULTI-HAZARD OUTLOOK

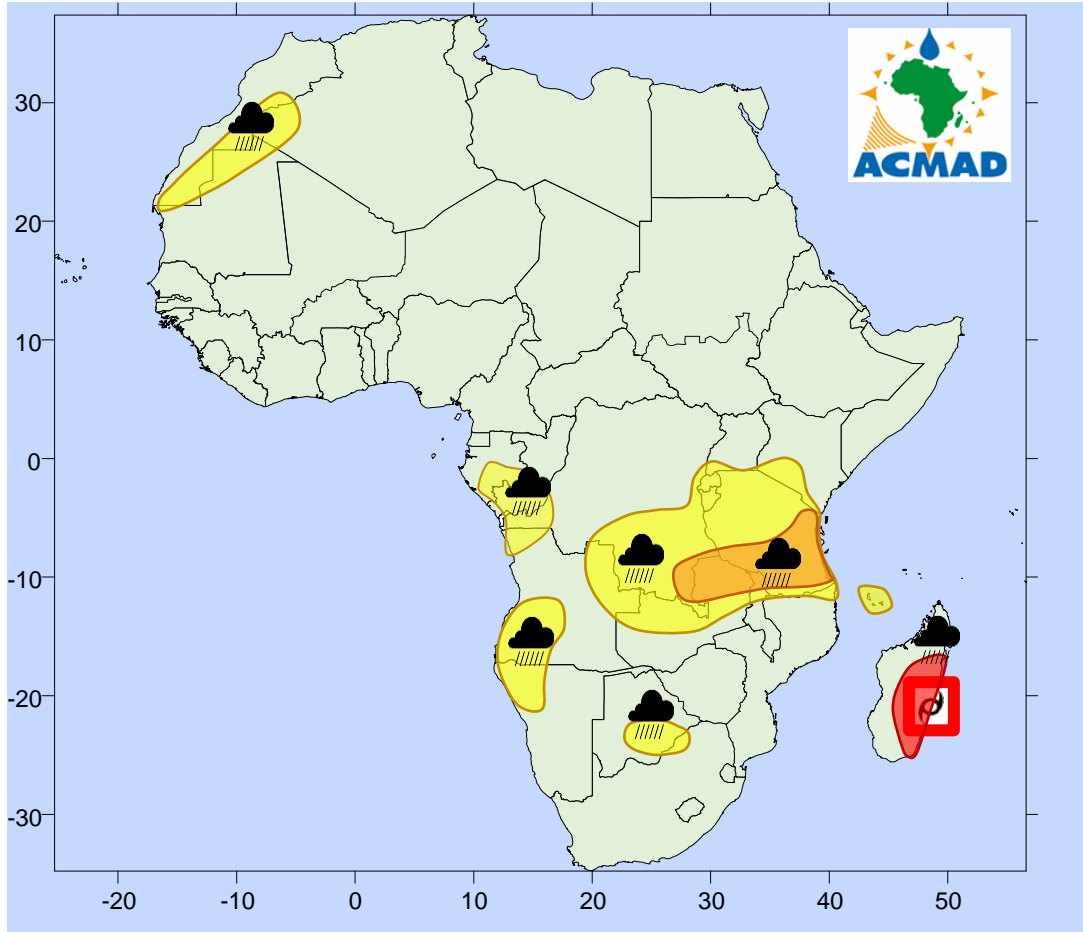
**Validity: 2022-02-21**

*issued on 2022-02-17*

 Rain	 Wind	 Dust	 Meningitis
Very heavy >100mm	Very strong >80kmh <sup>-1</sup>	Very heavy >1000µg m <sup>-3</sup>	Very likely
Heavy 50-100mm	Strong >65kmh <sup>-1</sup>	Heavy >600µg m <sup>-3</sup>	Likely
Moderate 10 - 49mm	Moderate >50kmh <sup>-1</sup>	Moderate >400µg m <sup>-3</sup>	Less likely
Light 1 - 10mm	Light <50kmh <sup>-1</sup>	Light <200µg m <sup>-3</sup>	

 Tropical Cyclone
Tropical Cyclone >118km/h
Severe tropical storm 89 – 117km/h
Moderate tropical storm 63-88km/h
Tropical Depression 51 – 62km/h










# MULTI-HAZARD OUTLOOK

**Validity: 2022-02-22**

*issued on 2022-02-17*

 Rain	 Wind	 Dust	 Meningitis
Very heavy >100mm	Very strong >80kmh <sup>-1</sup>	Very heavy >1000µg m <sup>-3</sup>	Very likely
Heavy 50-100mm	Strong >65kmh <sup>-1</sup>	Heavy >600µg m <sup>-3</sup>	Likely
Moderate 10 - 49mm	Moderate >50kmh <sup>-1</sup>	Moderate >400µg m <sup>-3</sup>	Less likely
Light 1 - 10mm	Light <50kmh <sup>-1</sup>	Light <200µg m <sup>-3</sup>	

 Tropical Cyclone
Tropical Cyclone >118km/h
Severe tropical storm 89 – 117km/h
Moderate tropical storm 63-88km/h
Tropical Depression 51 – 62km/h

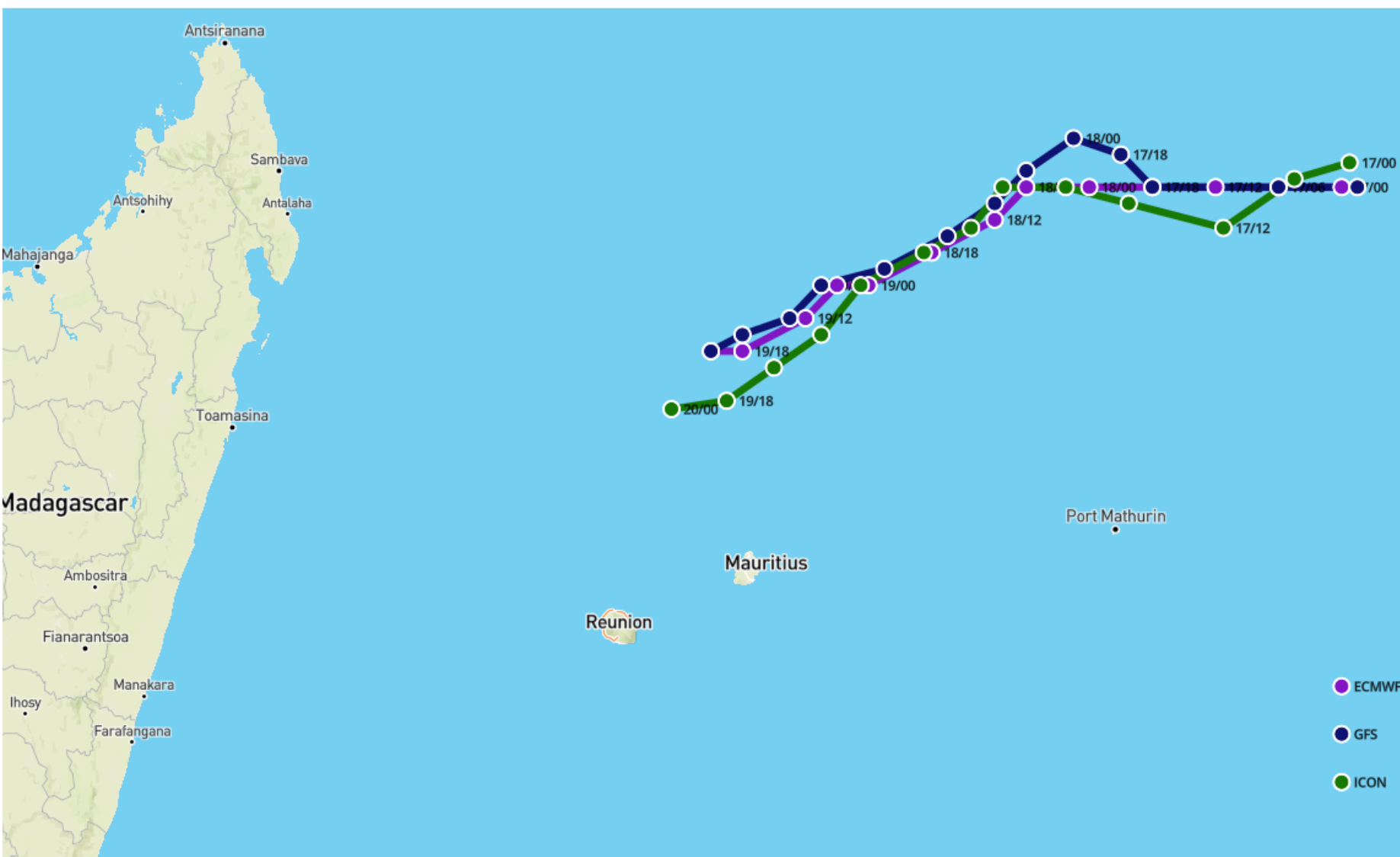
Archive



### III.14- Tropical cyclone trajectory outlook (February 17th to 20th, 2022)



Models : ECMWF, GFS and ICON



# VIGILANCE MAP FOR HEAVY RAINFALL

**18 Feb – 22 Feb 2022**

*issued on 2022-02-17*

## Implications:

- In next 5 days accumulated rainfall is expected to be in range of 50mm to 100mm;

-Be aware of the existing risk of moderate to heavy rainfall;

-There is a potential flash flood in the coming days

## Hazards :

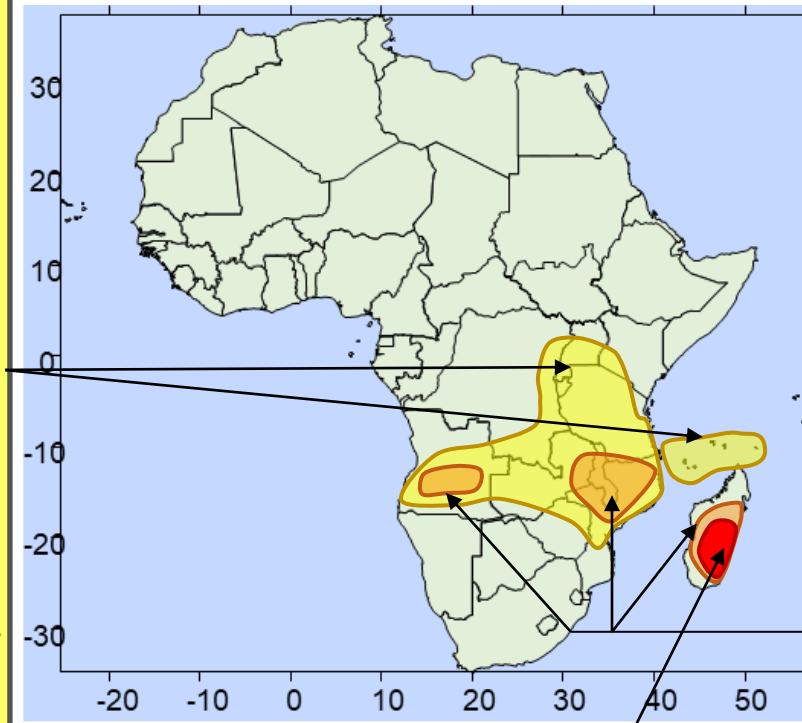
Moderate rainfall, flash flood, riverine flooding, landslides, soil erosion and Lightning likely

## Potentials Impacts:

Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges, ...)

## Measures/Advisories:

Update and implement Flood contingency plans, Improve water management in reservoirs and dams, DRM authorities to monitor the situation and raise awareness, taking action is more likely, the situation needs to be monitored closely with NHMSs



## Implications:

- In next 5 days accumulated rainfall is expected to be more than 150mm;

-There is High risk of flash flood due to the high ground saturation and continued heavy rains.

## Hazards :

Heavy rainfall, flash flood, riverine flooding, landslides, soil erosion and Lightning, strong winds,

## Potentials Impacts:

Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges, ...)

## Measures/Advisories:

Update and implement Flood contingency plans, Improve water management in reservoirs and dams, DRM authorities be ready to take adequate actions, DRM to be in touch with NHMSs for more details and identification of vulnerable area,

## Implications:

- On 22th February 2022, the Tropical Cyclone EMNATI is expected to landfall over east-southern Madagascar bringing heavy precipitation and strong winds. There is High risk of flash flood due to the heavy rains associated to the tropical storm EMNATI

## Hazards :

- Tropical Storm, Heavy rainfall, flash flood, strong winds, landslides, Lightning

## Potentials Impacts:

- Losses of life, Displacements of people due to floods, damage of infrastructures (roads, bridges, ...)

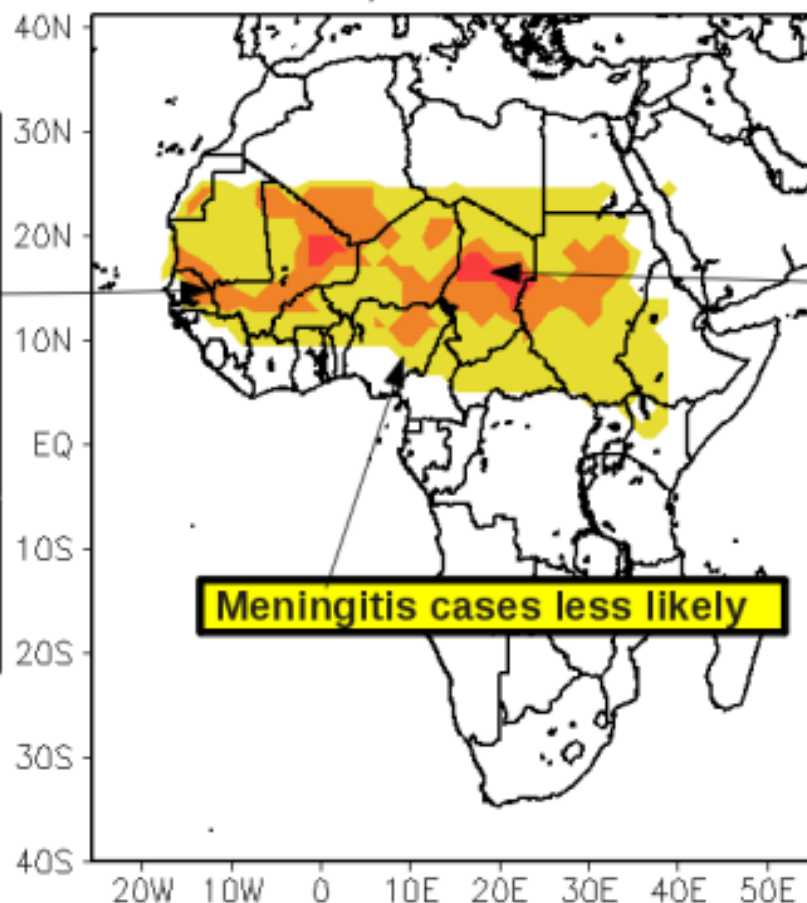




**VIGILANCE MAP FOR EMERGENCE OF MENINGITIS IN AFRICA**  
**ISSUED ON FEBRUARY 14, 2022 for 21–27 FEBRUARY 2022**



<b>HAZARD</b> Dust, wind, relative humidity and temperature conditions are favorable for emergence of meningitis cases
<b>Meningitis cases very likely</b>
<b>MEASURES</b> Activation of meningitis surveillance and systems



<b>HAZARD</b> Dust, wind and relative humidity and temperature conditions are very much favorable for emergence of meningitis
<b>POTENTIAL IMPACTS</b> Meningitis cases very likely and epidemics status possible
<b>MEASURES</b> Strengthen meningitis surveillance and systems