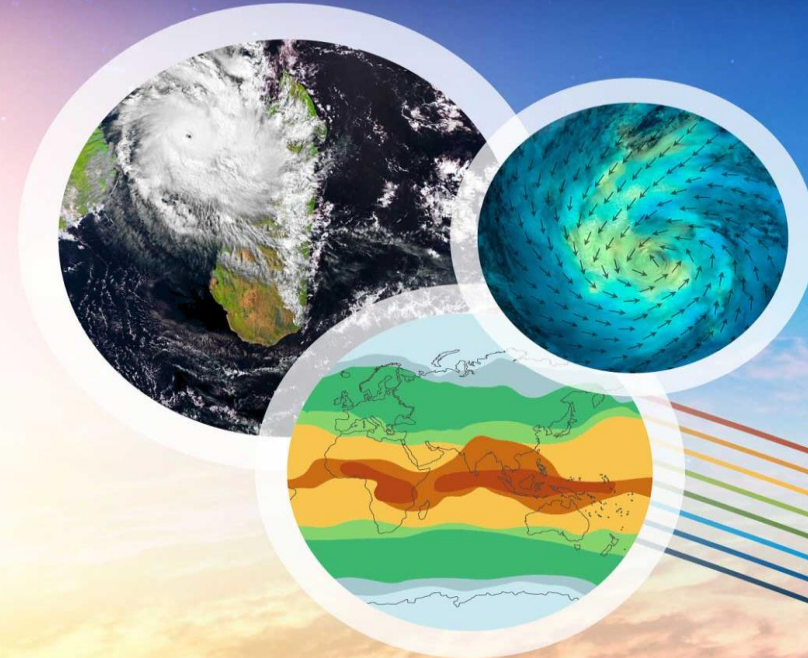
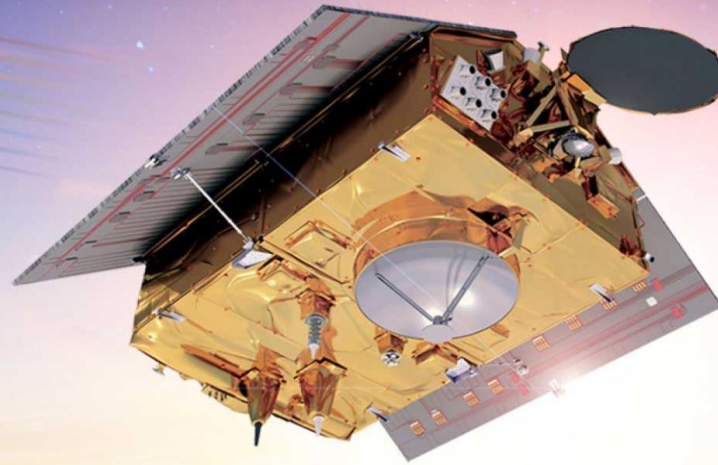


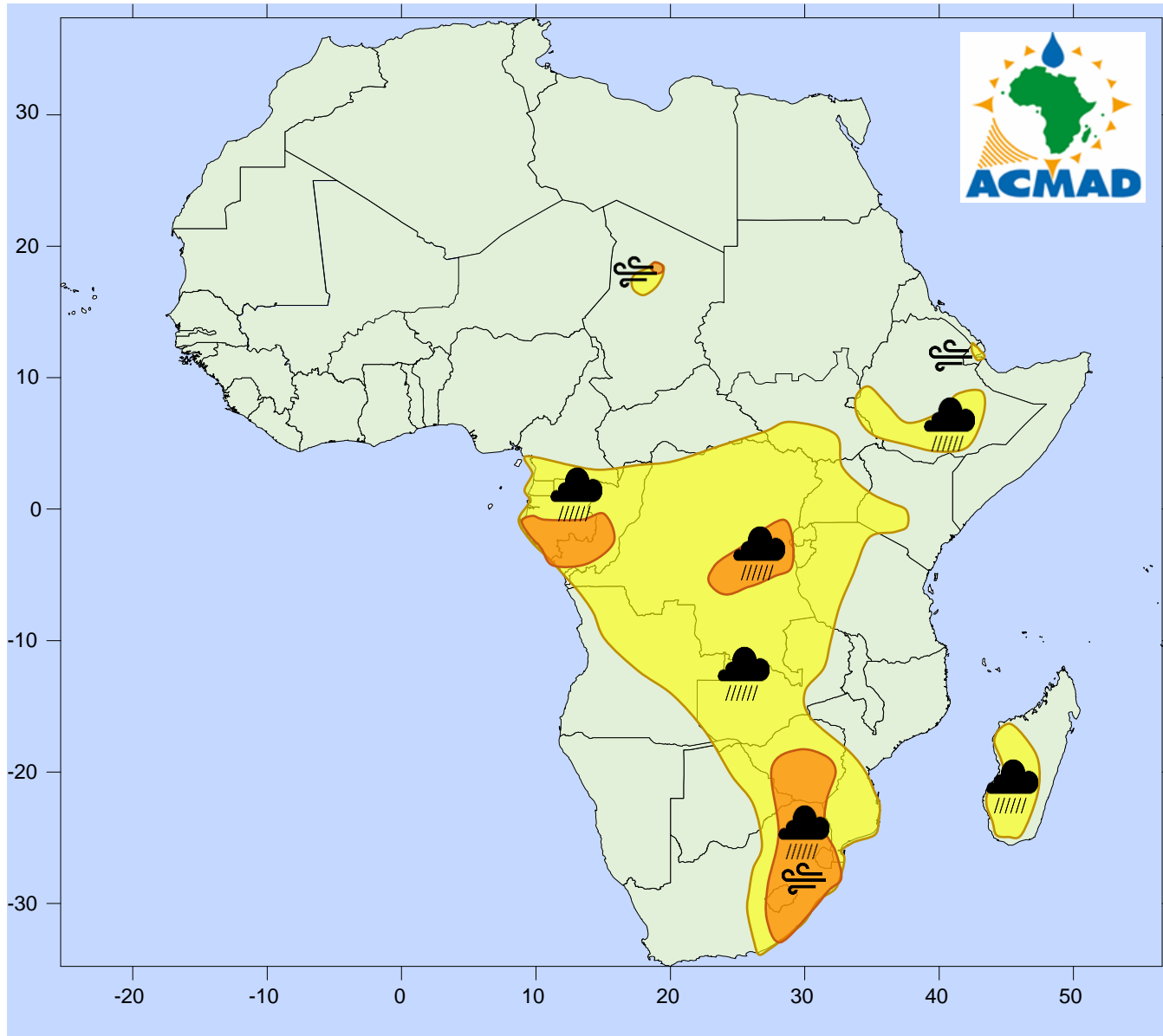
## African Centre of Meteorological Applications for Development (ACMAD)

## Continental Multi-Hazard & Advisory Bulletin



**Issued on: November 7<sup>th</sup>, 2022**





**Validity period: November 8<sup>th</sup> to 12<sup>th</sup>, 2022**



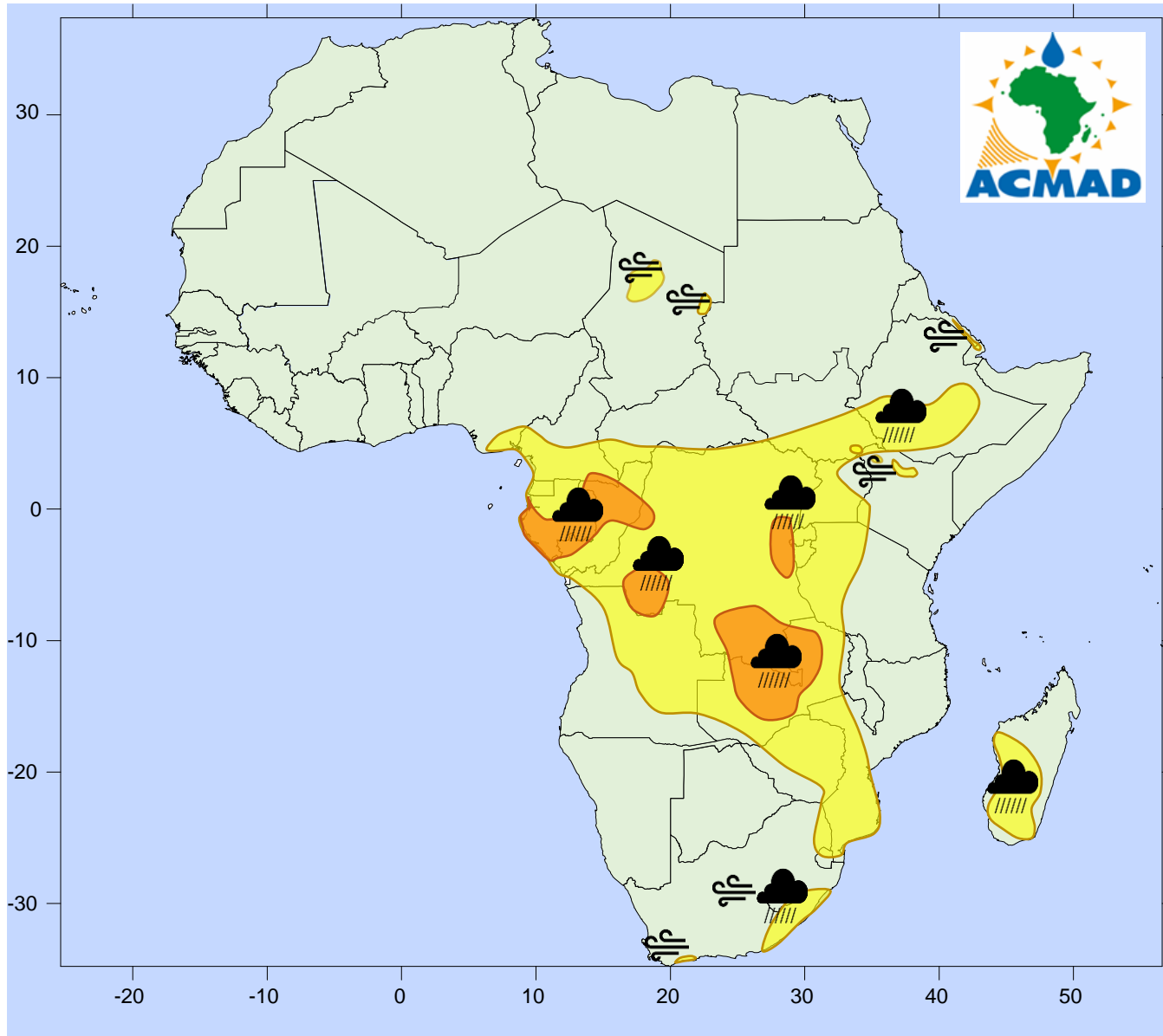
# MULTI-HAZARD OUTLOOK

**Validity: 2022-11-08**

*issued on 2022-11-07*

 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>	









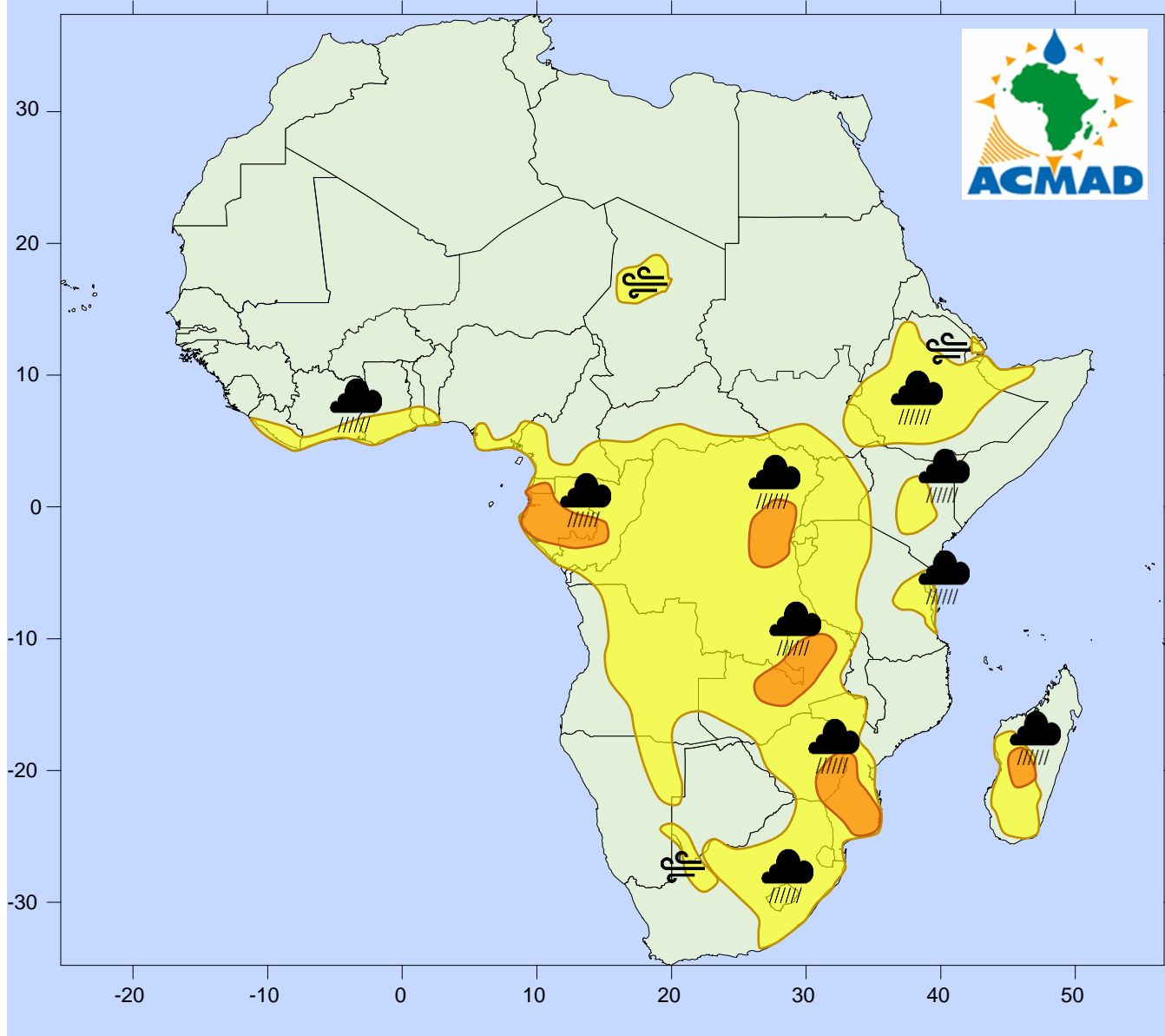
# MULTI-HAZARD OUTLOOK

**Validity: 2022-11-09**

*issued on 2022-11-07*

 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>	









# MULTI-HAZARD OUTLOOK

**Validity: 2022-11-10**

*issued on 2022-11-07*

 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>	

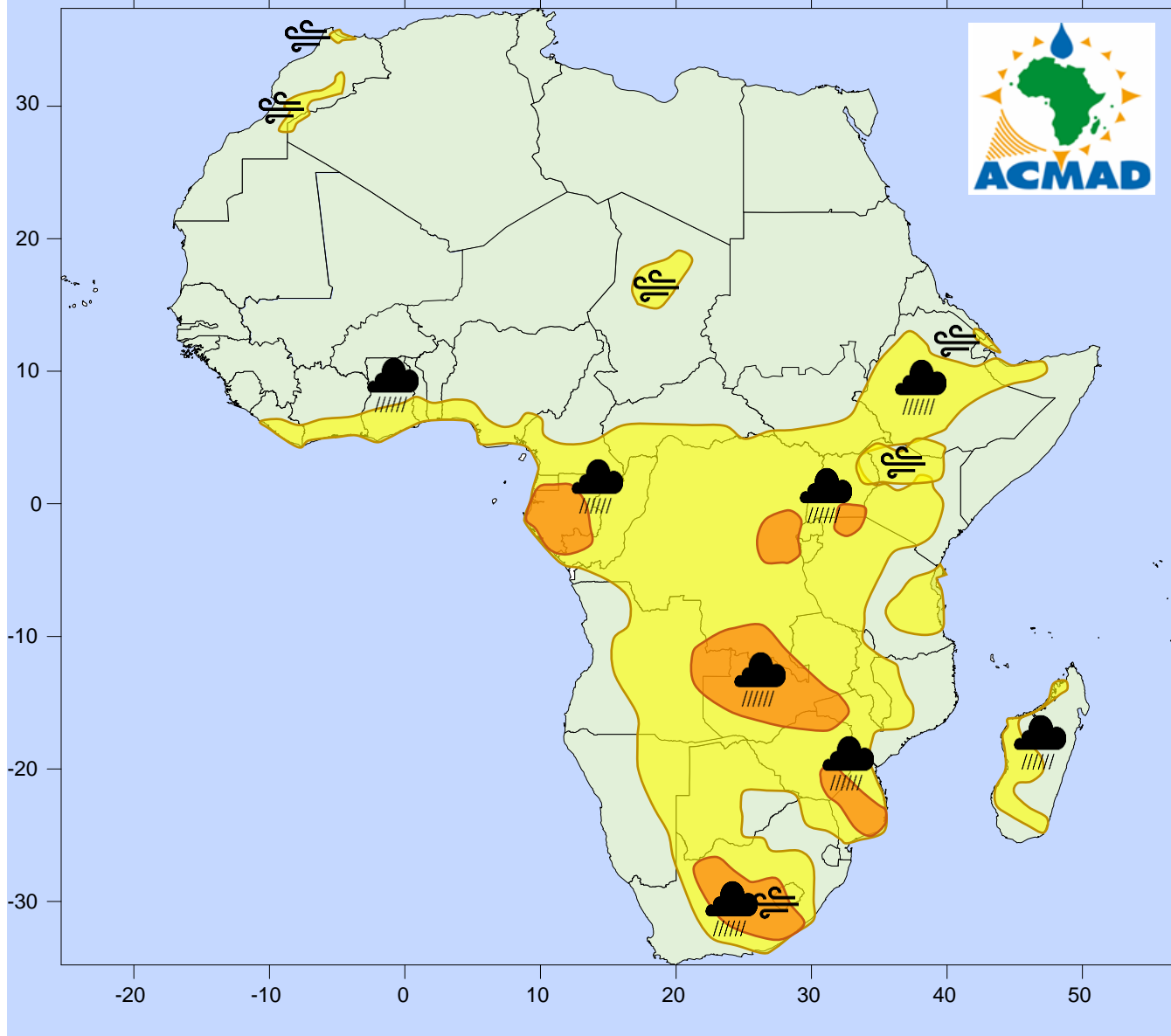








# MULTI-HAZARD OUTLOOK

**Validity: 2022-11-11**

*issued on 2022-11-07*



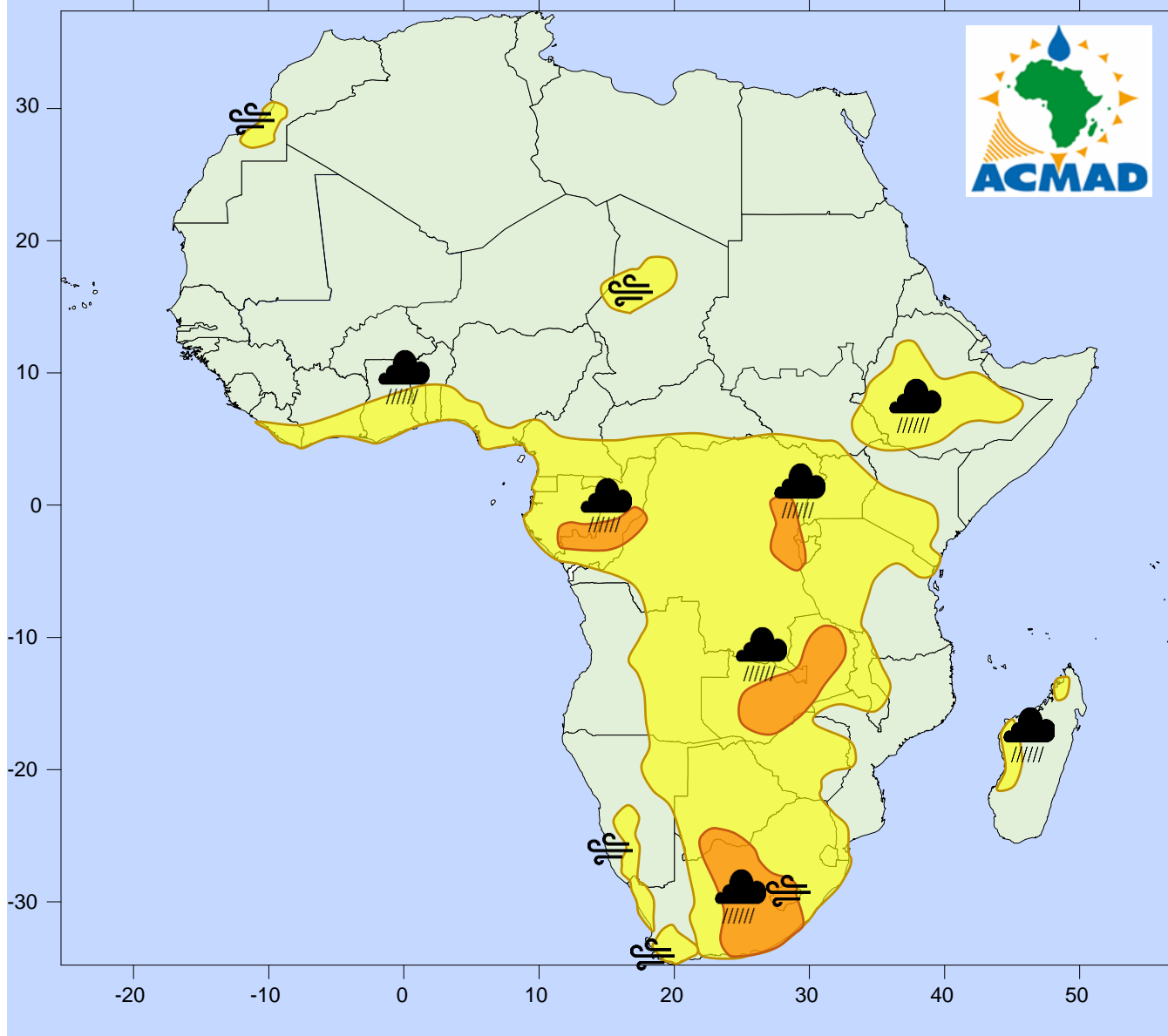
 Rain	 Wind	 Dust	 Meningitis
Very heavy >100mm	Very strong >80kmh <sup>-1</sup>	Very heavy >1000µg m <sup>-3</sup>	Very likely
Heavy 50-100mm	Strong >65kmh <sup>-1</sup>	Heavy >600µg m <sup>-3</sup>	Likely
Moderate 10 - 49mm	Moderate >50kmh <sup>-1</sup>	Moderate >400µg m <sup>-3</sup>	Less likely
Light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







# MULTI-HAZARD OUTLOOK

## Validity: 2022-11-12

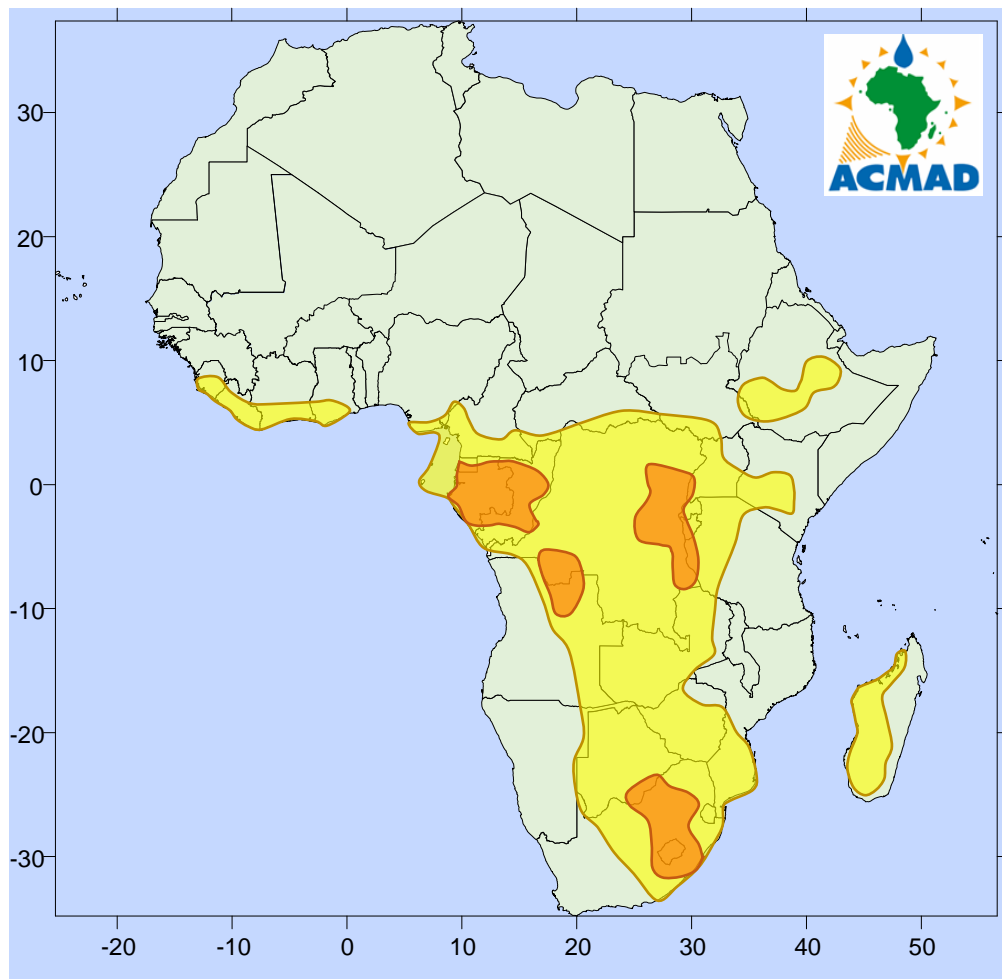
issued on 2022-11-07



 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>	



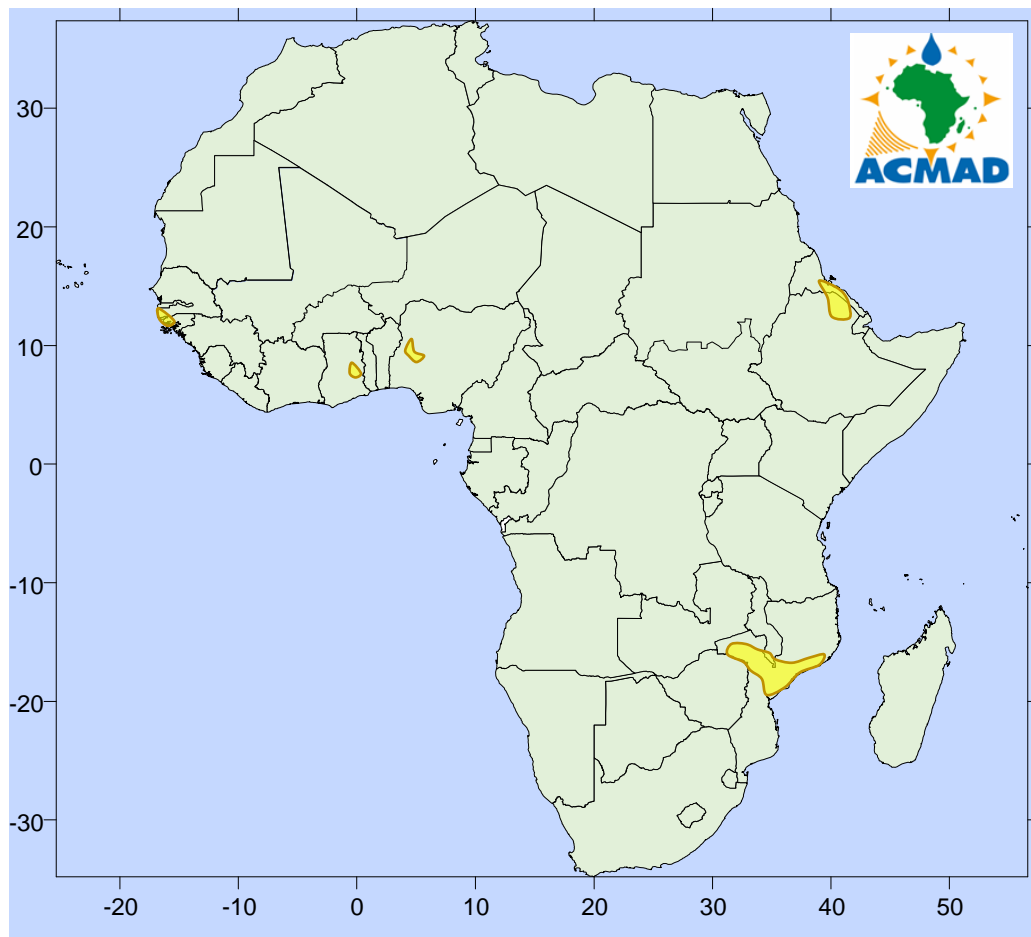
**HIGHLIGHT:** Heavy rainfall is expected over Equatorial Guinea, Gabon, Congo, DRC, Rwanda, Burundi, Tanzania, Angola, Botswana, Uganda and Lesotho



	Phenomenon	Hazard	Potentials Impacts	DRM Measures / Advices
	In next 5 days accumulated rainfall (50-100mm) is likely,	Moderate rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning likely	Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges, ...)	Civil Protection and DRM authorities in west, Central, South, East Africa in East Africa and Madagascar to monitor closely the situation with NHMSs
	In next 5 days accumulated rainfall (100 – 150mm) is very likely,	Heavy rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning, strong winds,	Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges, ...)	Civil Protection and DRM authorities in Gabon, Equatorial Guinea, Congo, South West and East of DRC, Northern part of Angola, Lesotho, South East of Botswana, Eastern part of Rwanda, Uganda and Burundi, Central, East and West of South Africa to update Flood contingency plans, monitor the water level in river basin, reservoirs and dams, assess vulnerabilities and take preparedness measures.
	In next 5 days accumulated rainfall (>150mm) is very likely,	Extreme heavy precipitation, flash flood, riverine flooding, landslides, soil erosion and lightning, strong winds, severe thunderstorms	Loss of lives, Injuries, Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges, ...)	Civil Protection services and DRM authorities to activate flood contingency plans for emergency response (assistance to victims, search & rescue operations ), and be in close touch with NHMS, in case the situation become worst.

**Disclaimer:** The presentation of country boundaries on the map does not imply any opinion whatsoever on the part of ACMAD concerning the legal status of any country, territory or area, or concerning the delimitation of frontiers or boundaries.

**HIGHLIGHT: Light heat wave is likely expected over Senegal, Guinea Bissau, Ghana, Nigeria, Eritrea, Ethiopia, Malawi and Mozambique**



	Phenomenon	Hazard	Potentials Impacts	DRM Measures / Advices
	In next 5 days apparent temperature >40°C to 44°C are expected for two days	Heat wave Conditions persists on 2days	Moderate temperature heat is tolerable for general public but moderate health concern for vulnerable people(people chronic diseases, infants and elderly)	Civil Protection services and DRM Authorities in South East of Senegal and Guinea Bissau, Central East of Ghana, Central West of Nigeria, Central part of Eritrea, Central North of Ethiopia, South of Malawi and Central West and East of Mozambique to monitor closely the situation with NHMSs
	apparent temperature 40°C to 44°C are expected for more than 2 days	Moderate heat wave conditions are likely to persist for 3days ore more with varied severity	High temperature Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work High health concern for vulnerable people	Civil Protection services and DRM Authorities to update heat wave contingency plan, assess vulnerabilities, cooling systems and take awareness measures in close relation with the health services in case of heat.
	Apparent temperatures >45°C are expected for more than 2 days	Severe heat wave is very likely to persist for more than 2 days,	Very high likelihood of developing heat illness and heat stroke in all ages	Civil Protection services and DRM Authorities to activate heat wave contingency plan for emergency response (Warning/alert, assist victims of physical and psychological stress, sensitize vulnerable groups to avoid heat exposure, dehydration, to keep cool, to drink sufficient water, to wear lightweight, light colored...) in case of serious heat.

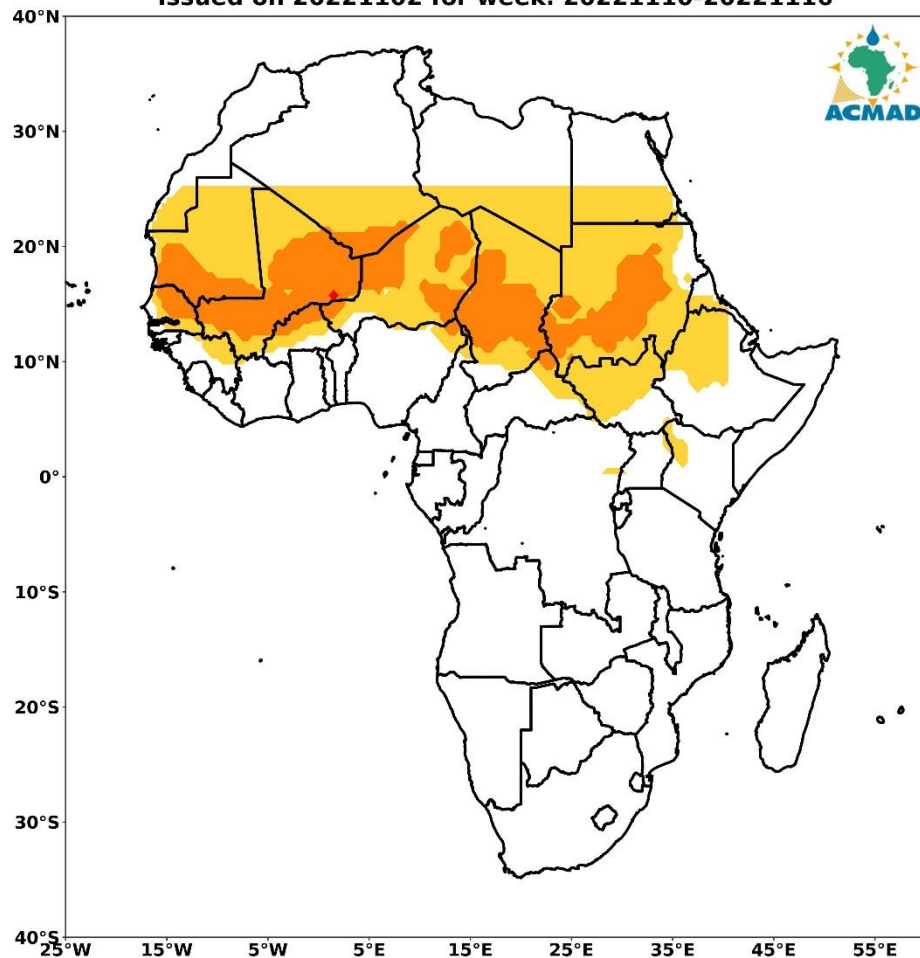
**Disclaimer:**

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**HIGHLIGHT:** Emergence of Meningitis cases are likely in Senegal, Mauritania, Mali, Burkina Faso, Niger, Algeria, Chad and Sudan.

**VIGILANCE MAP FOR MENINGITIS OUTBREAKS IN AFRICA**  
issued on 20221102 for week: 20221110-20221116



	Phenomenon	Hazard	Potentials Impacts	Advisory / Measures
	<ul style="list-style-type: none"> <li>- Dust concentration below 150<math>\mu\text{g}/\text{m}^3</math></li> <li>- Relative humidity above 40%</li> <li>- Temperature below 27<math>^{\circ}\text{C}</math></li> </ul>	Emergence of Meningitis cases not likely	Potential pressure on the health system	Routine surveillance systems at regional and national levels
	<ul style="list-style-type: none"> <li>- Dust concentration between 150 to 400<math>\mu\text{g}/\text{m}^3</math></li> <li>- Relative humidity between 20 &amp; 40%</li> <li>- Temperature above 27<math>^{\circ}\text{C}</math></li> </ul>	Emergence of Meningitis cases very likely	Loss of life, pressure on the health system	Activation of surveillance systems at regional and national levels
	<ul style="list-style-type: none"> <li>- Dust Concentration at least 400<math>\mu\text{g}/\text{m}^3</math> and above</li> <li>- Relative humidity less than 20%</li> <li>- Temperature above 30<math>^{\circ}\text{C}</math></li> </ul>	Emergence of Meningitis cases very likely and epidemic status possible	Loss of life, increased pressure on the health system	Strengthen and increase meningitis surveillance systems at both regional and national levels

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## Contributors

Name	Function	Date
Dr. Lawal Kamoru Abiodun	Thematic expert in Climate Change	07-11-2022
Godefroid Nshimirimana	Thematic expert in meteorology	07-11-2022
Leon Guy Razafindrakoto	Thematic expert in meteorology	07-11-2022
Babatunde Atoyebi	Resource Person - OJT	07-11-2022
Mohammed Kangiwa	Resource Person - OJT	07-11-2022
Sunshine Gamedze	Short Term Climate Expert	07-11-2022
Dr. Pierre Kamsu	Senior Expert Forecaster	07-11-2022
Dominique Kuitsouc	EWS expert	07-11-2022

## Versions

Version	Date	By	Descriptions
V0	07-11-2022	WWFD forecasters	First draft for « Briefing », with all forecaster's contributions
Last	07-11-2022	Dr. Pierre Kamsu	Final Review



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**ClimSA**

INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME



An initiative of the Organisation of African, Caribbean and Pacific States funded by the European Union



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