

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

## Continental Multi-Hazard & Advisory Bulletin



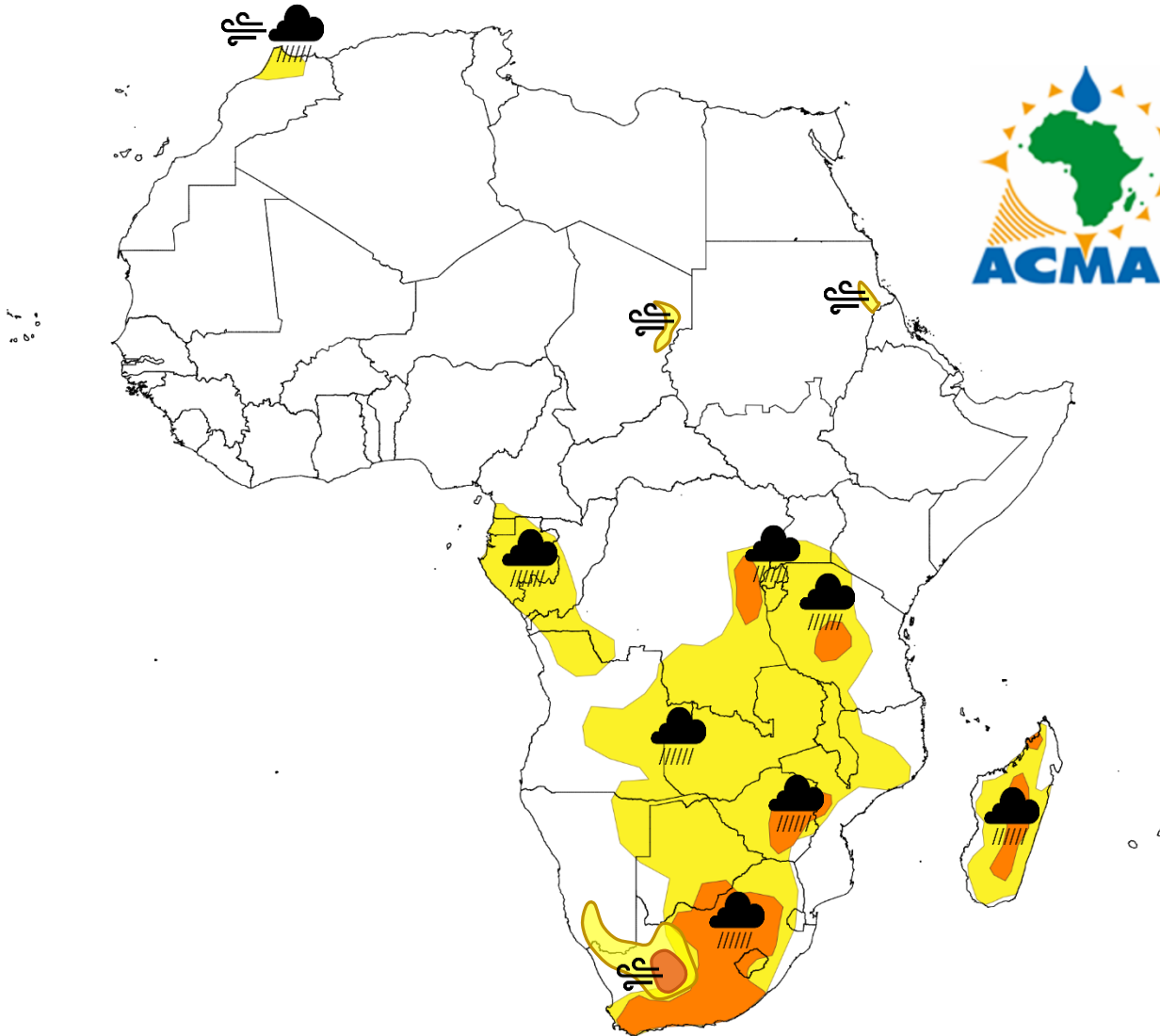
**Issued on: December 15<sup>th</sup>, 2022**

**Validity period: December 16<sup>th</sup> to 20<sup>th</sup>, 2022**

# MULTI-HAZARD OUTLOOK

**Validity: 2022-12-16**

issued on 2022-12-15

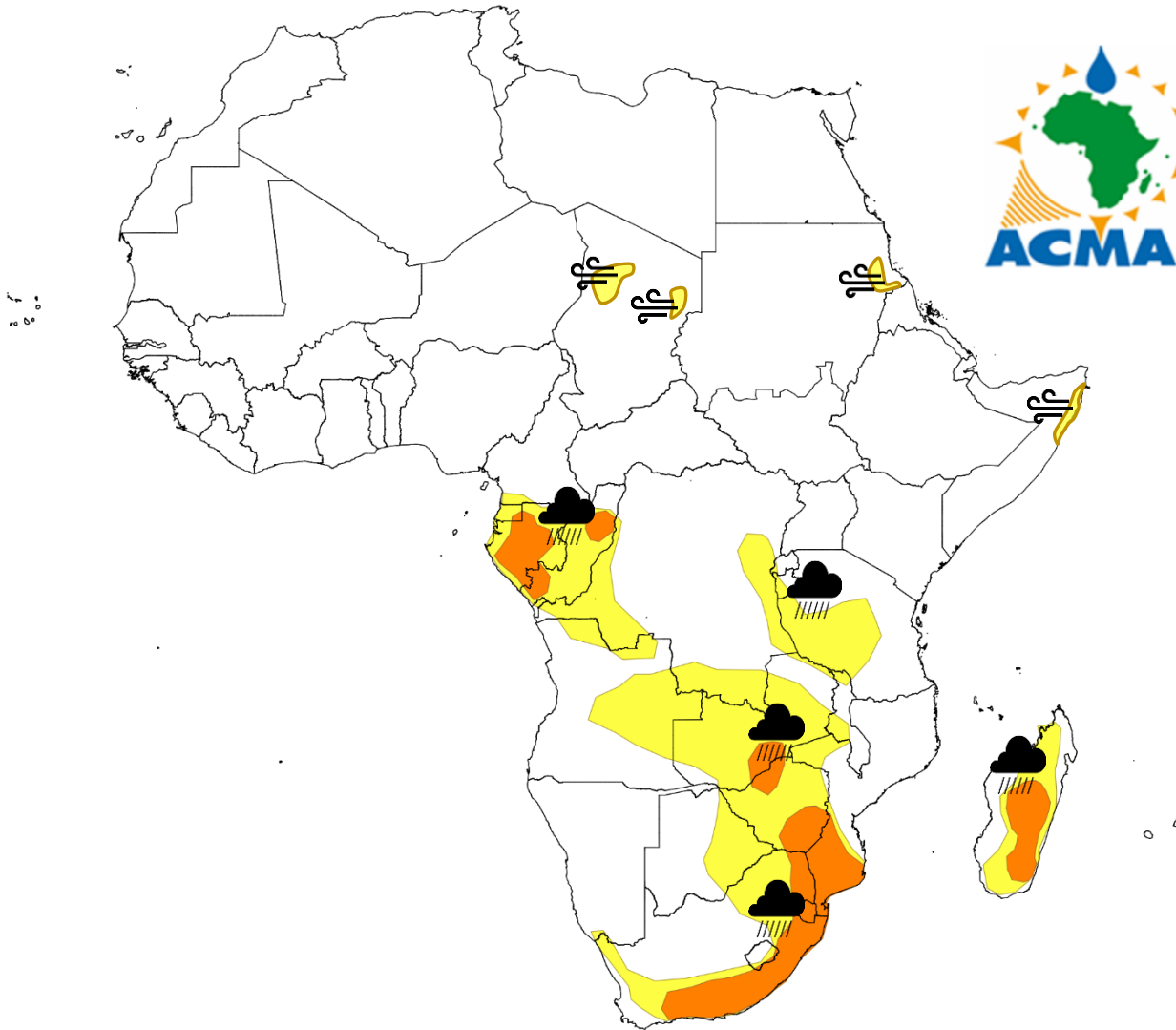


| <br>Rain | <br>Wind | <br>Dust | <br>Meningitis |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------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

# MULTI-HAZARD OUTLOOK

**Validity: 2022-12-17**

issued on 2022-12-15

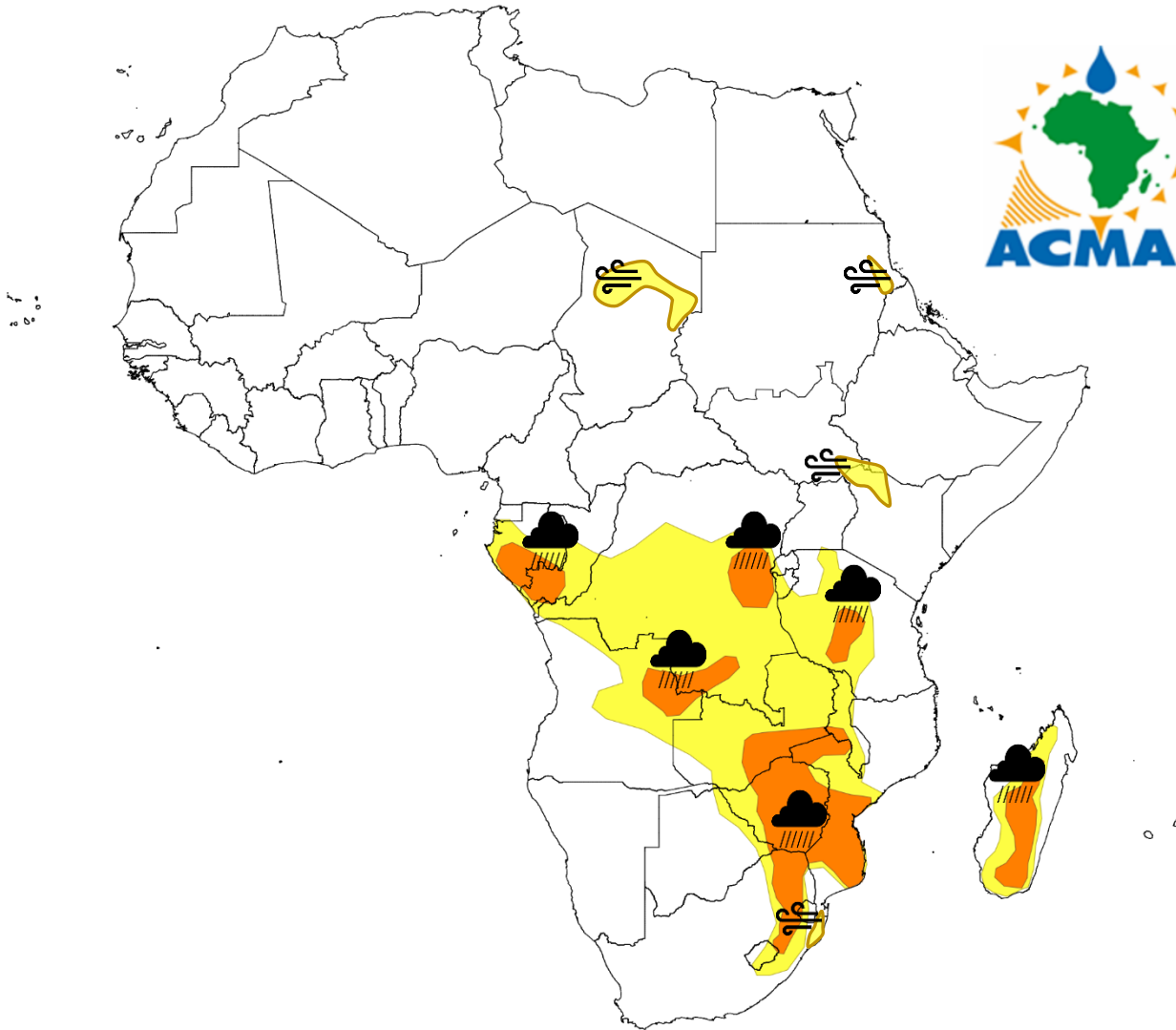


| <br>Rain | <br>Wind | <br>Dust | <br>Meningitis |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------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

# MULTI-HAZARD OUTLOOK

**Validity: 2022-12-18**

issued on 2022-12-15

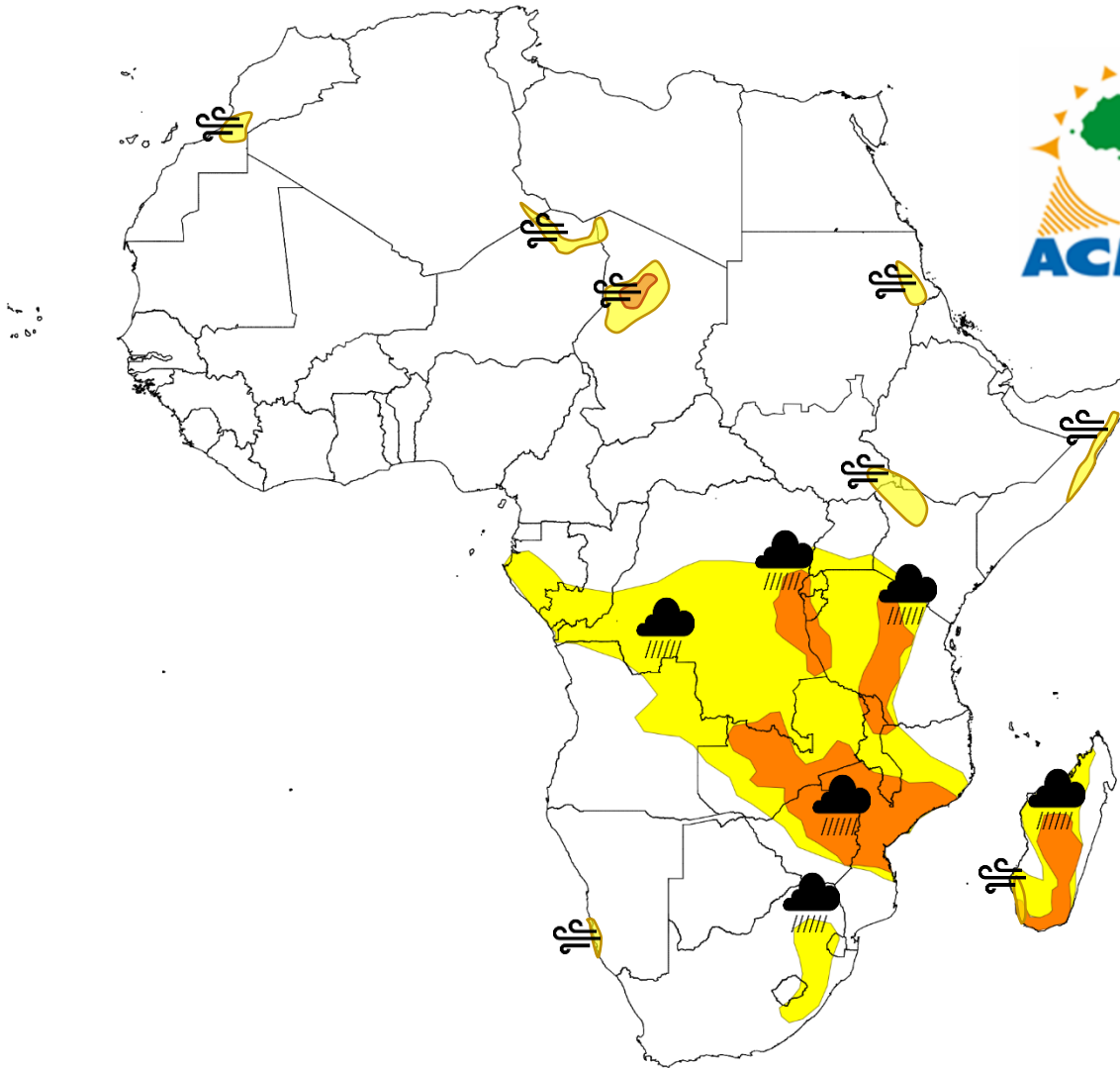


| <br>Rain | <br>Wind | <br>Dust | <br>Meningitis |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------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

# MULTI-HAZARD OUTLOOK

**Validity: 2022-12-19**

issued on 2022-12-15

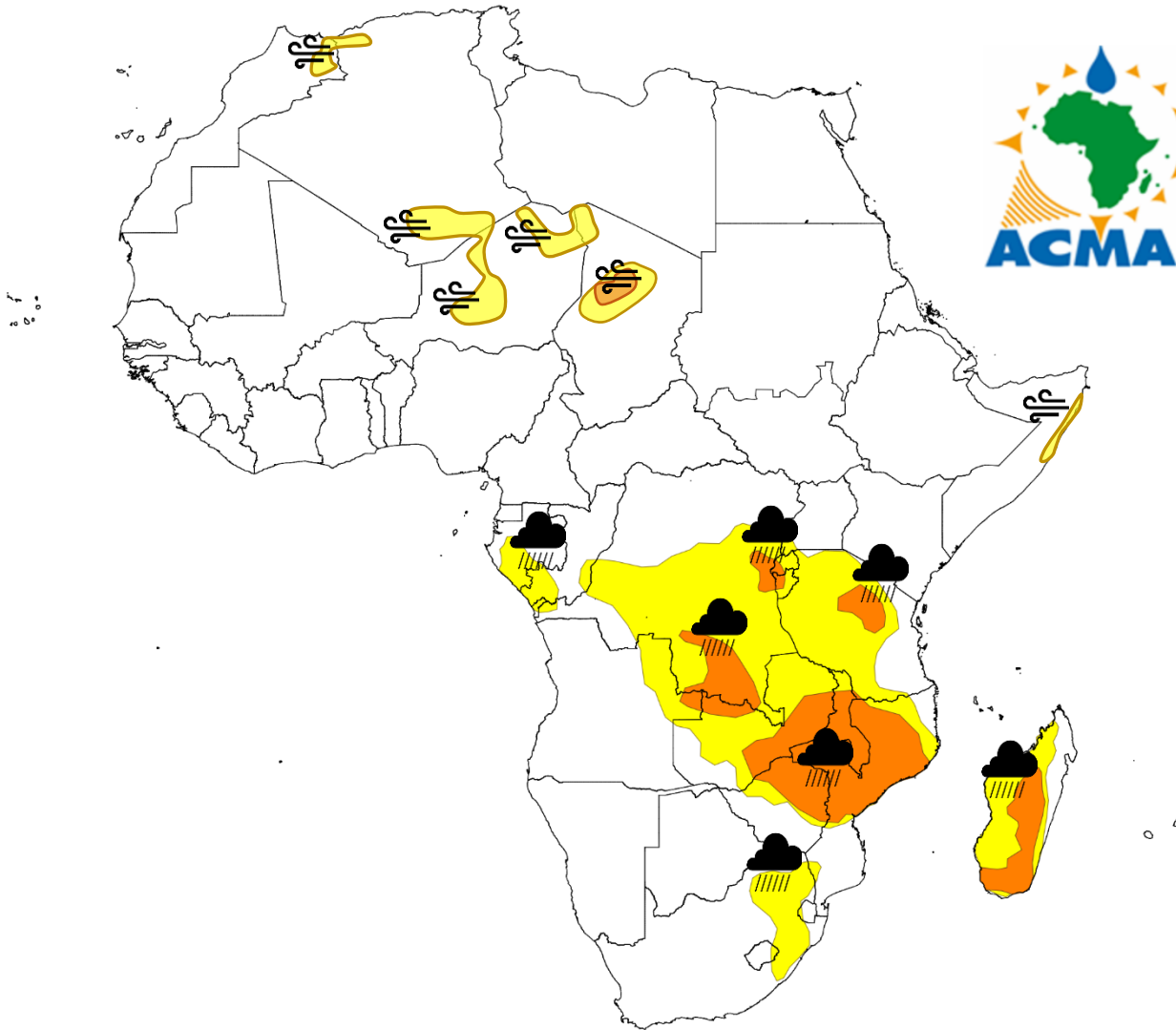


| <br>Rain | <br>Wind | <br>Dust | <br>Meningitis |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------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

# MULTI-HAZARD OUTLOOK

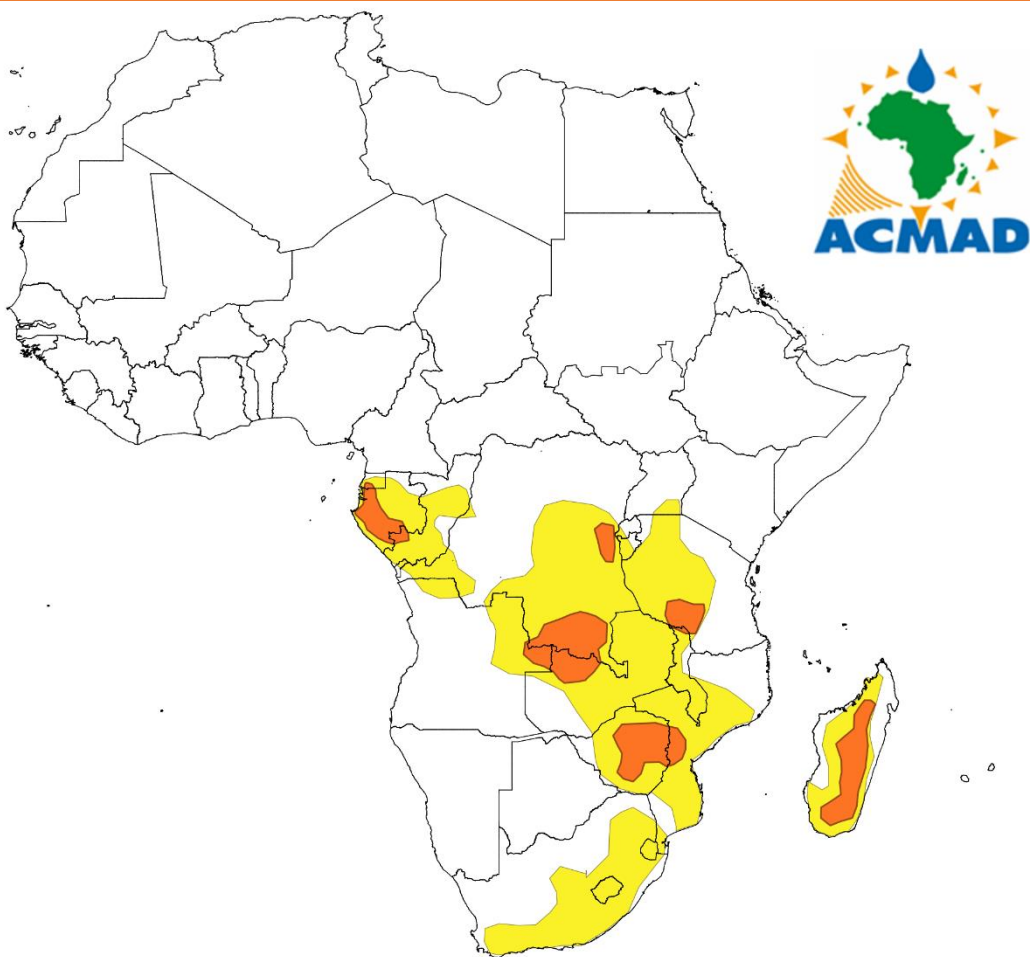
**Validity: 2022-12-20**

issued on 2022-12-15



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

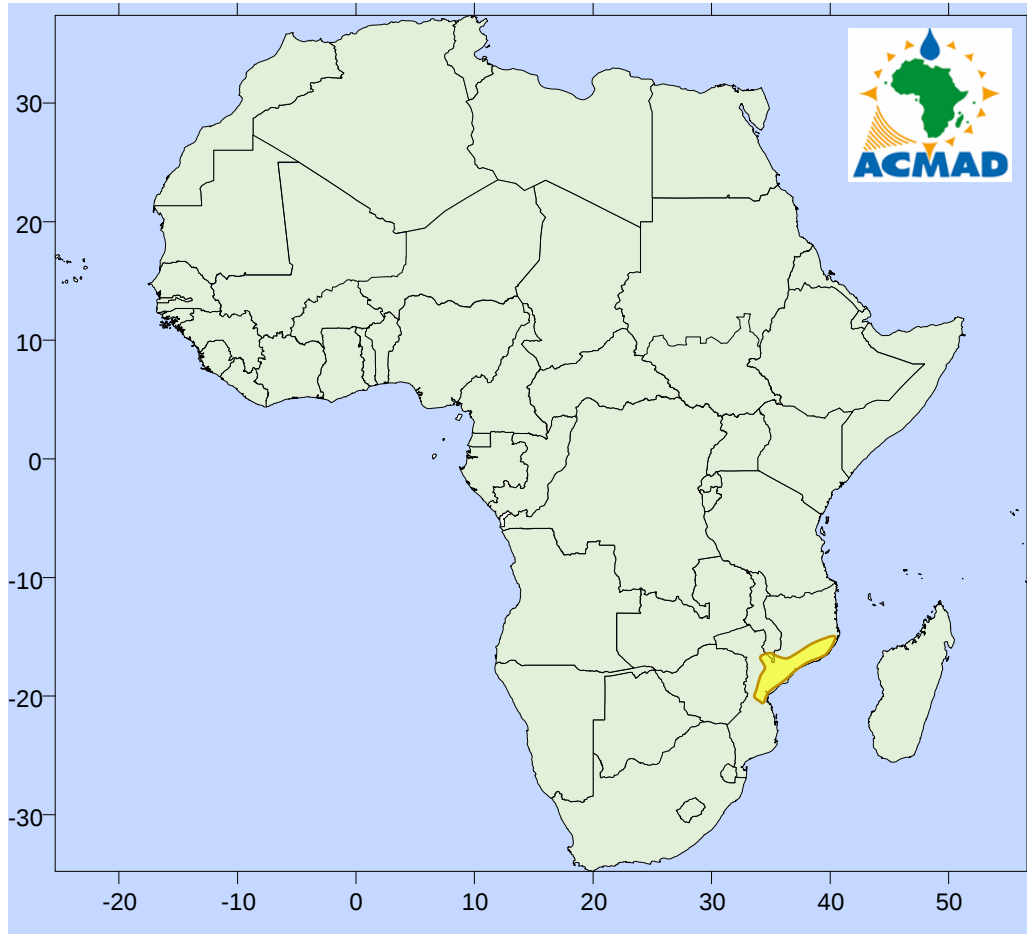
**HIGHLIGHT:** Heavy rainfall is expected over Equatorial Guinea, Gabon, Congo, DRC, Angola, Zambia, Zimbabwe, Mozambique, Malawi, Tanzania, and Madagascar



|  | 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 services in central Africa and DRM authorities in East south of Africa 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, ...)                          | <ul style="list-style-type: none"> <li>- Civil Protection services in Equatorial Guinea, Gabon, Congo, DRC and Madagascar and DRM authorities in Angola, Zambia, Zimbabwe, Mozambique, Malawi and Tanzania to update Flood contingency plans, monitor the water level in river basin, reservoirs and dams, assess vulnerabilities and take preparedness measures.</li> <li>- Transboundary monitoring highly recommended from ECCAS and SADC RCCs, concerning Equatorial Guinea, Gabon and Congo; DRC, Angola, Zambia, Zimbabwe, Mozambique, Malawi and Tanzania</li> </ul> |
|  | 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, ...) | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**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 expected over 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<br>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)                                         | DRM authorities in Mozambique to monitor closely the situation with NHMSs in case of any change in the situation |
|  | 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<br>Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work<br>High health concern for vulnerable people | N/A                                                                                                              |
|  | 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                                                                                                                       | N/A                                                                                                              |

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## Contributors

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## Versions

| Version | Date       | By               | Descriptions                                                      |
|---------|------------|------------------|-------------------------------------------------------------------|
| V0      | 15-12-2022 | WWFD forecasters | First draft for « Briefing », with all forecaster's contributions |
| Last    | 15-12-2022 | Dr. Pierre Kamsu | Final Review                                                      |



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Framework for Climate Services**



**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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