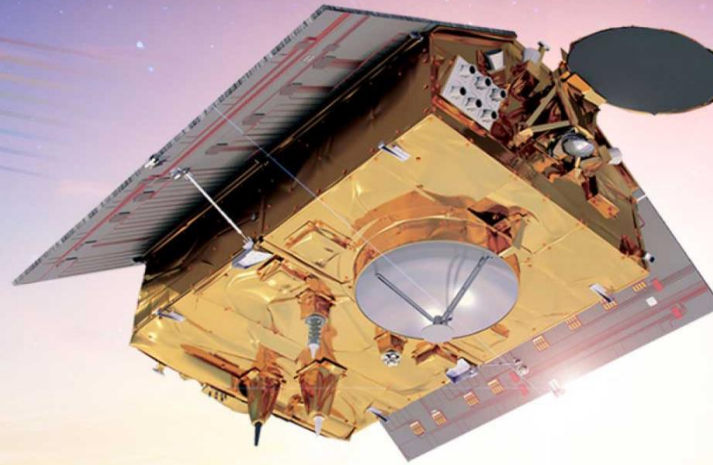


## African Centre of Meteorological Applications for Development (ACMAD)

## Continental Multi-Hazard & Advisory Bulletin

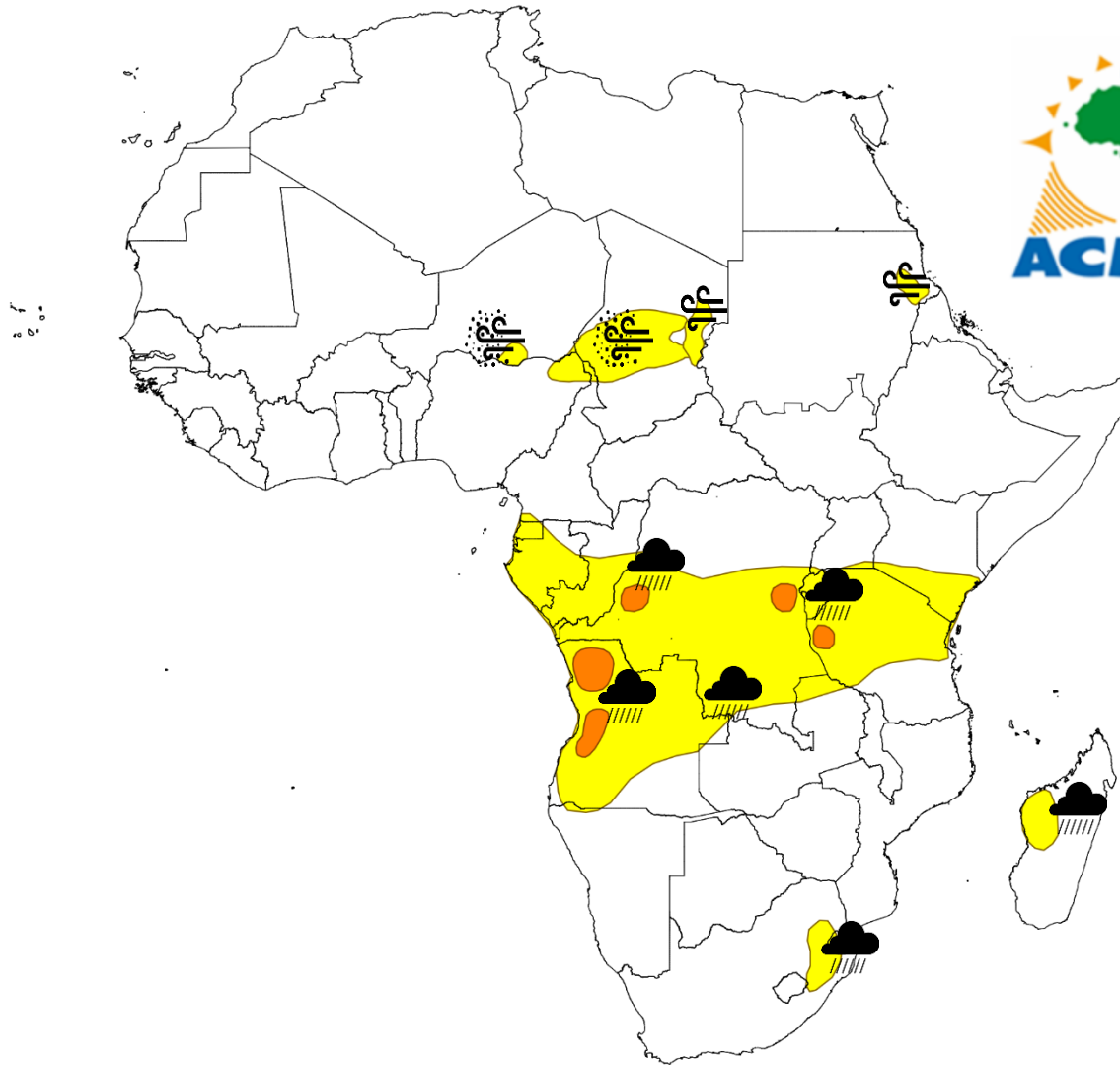


**Issued on: December 9<sup>th</sup>, 2024**  
**Validity period: December 10<sup>th</sup> to 14<sup>th</sup>, 2024**

# MULTI-HAZARD OUTLOOK

**Validity: 2024-12-10**

issued on 2024-12-09



| <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>                                                             |                                                                                                   |

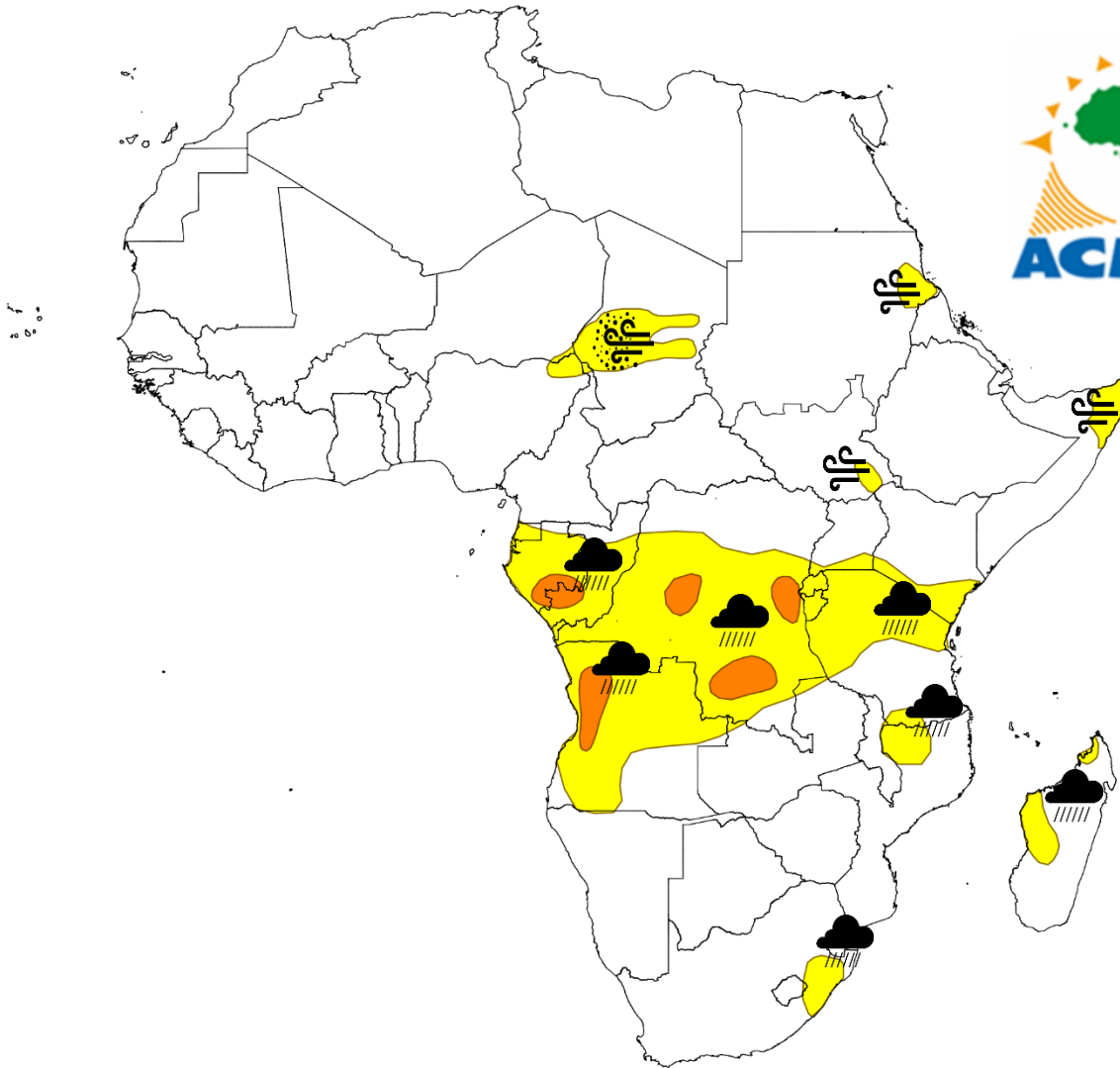
## Disclaimer:

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# MULTI-HAZARD OUTLOOK

**Validity: 2024-12-11**

issued on 2024-12-09



| <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>                                                             |                                                                                                   |

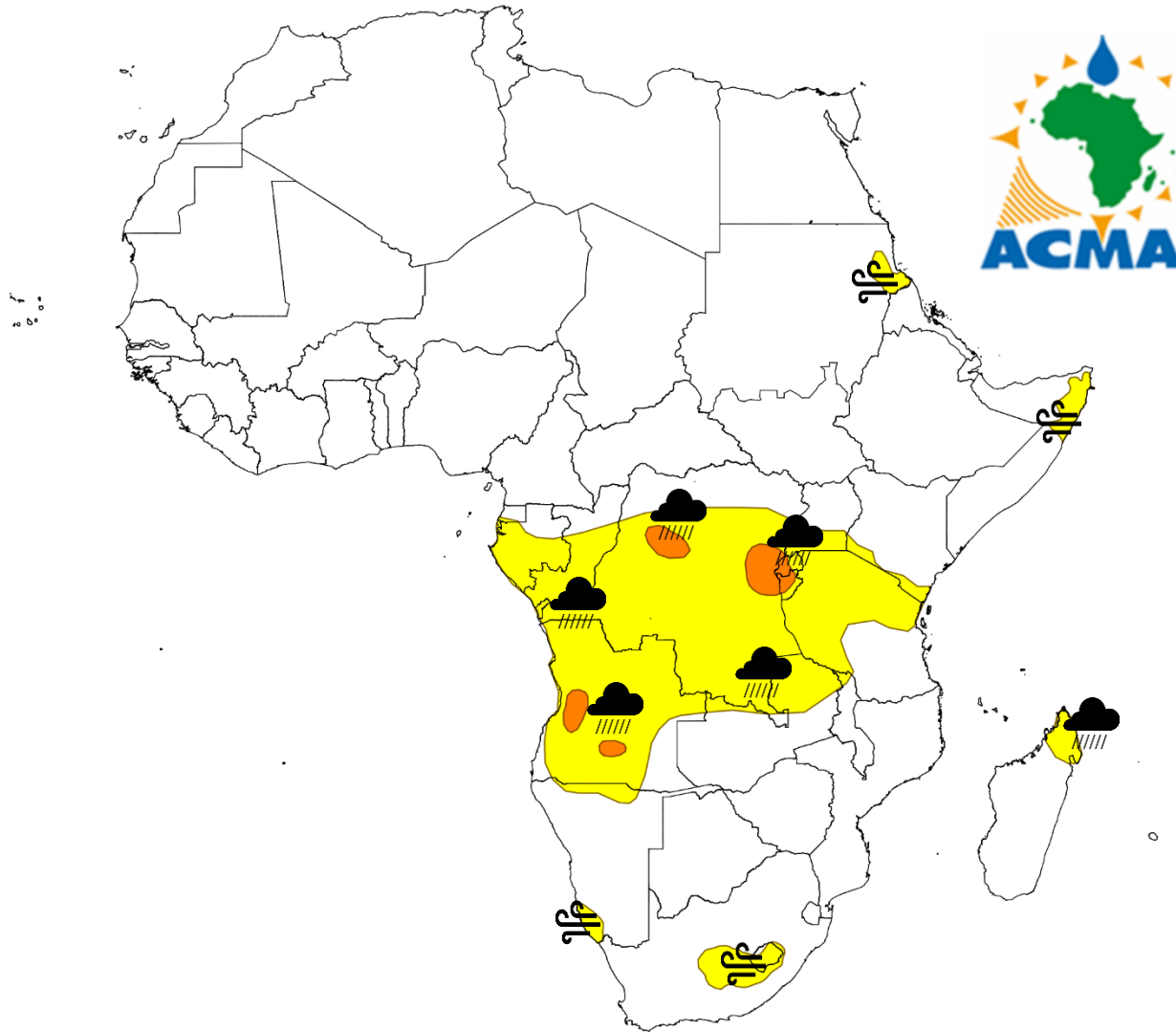
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# MULTI-HAZARD OUTLOOK

**Validity: 2024-12-12**

issued on 2024-12-09



| <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>                                                             |                                                                                                   |

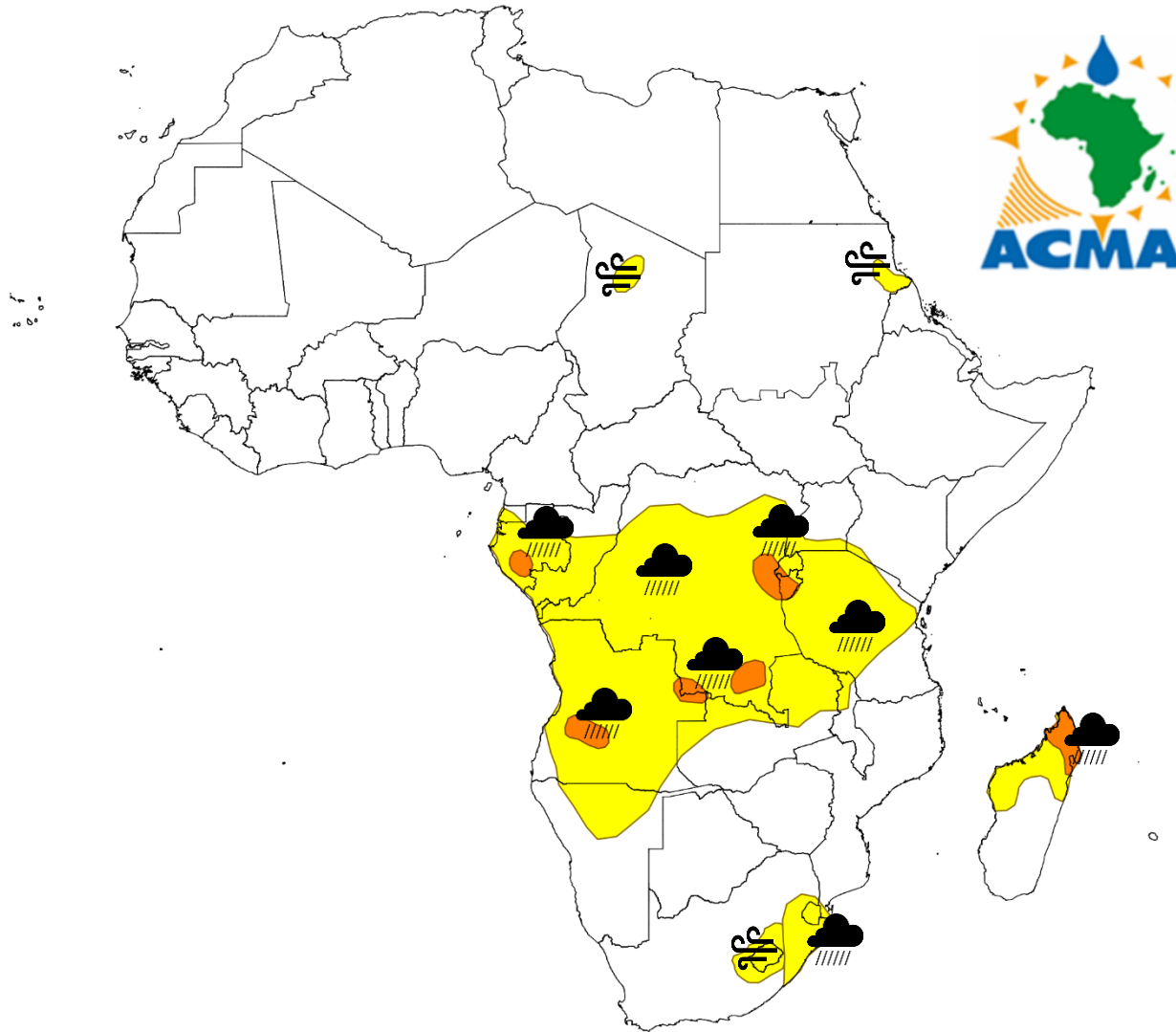
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# MULTI-HAZARD OUTLOOK

**Validity: 2024-12-13**

issued on 2024-12-09



| <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>                                                             |                                                                                                   |

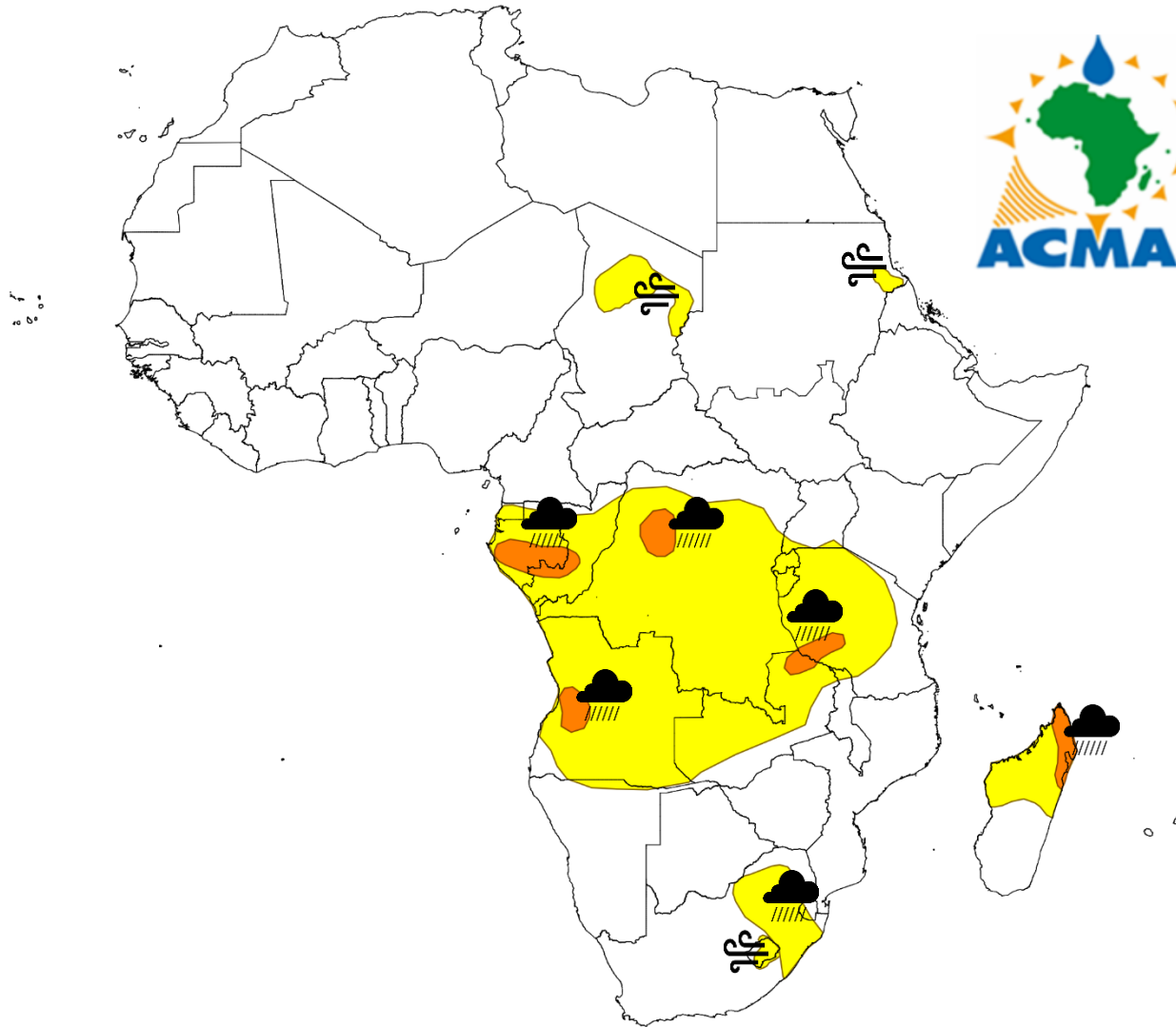
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# MULTI-HAZARD OUTLOOK

**Validity: 2024-12-14**

issued on 2024-12-09

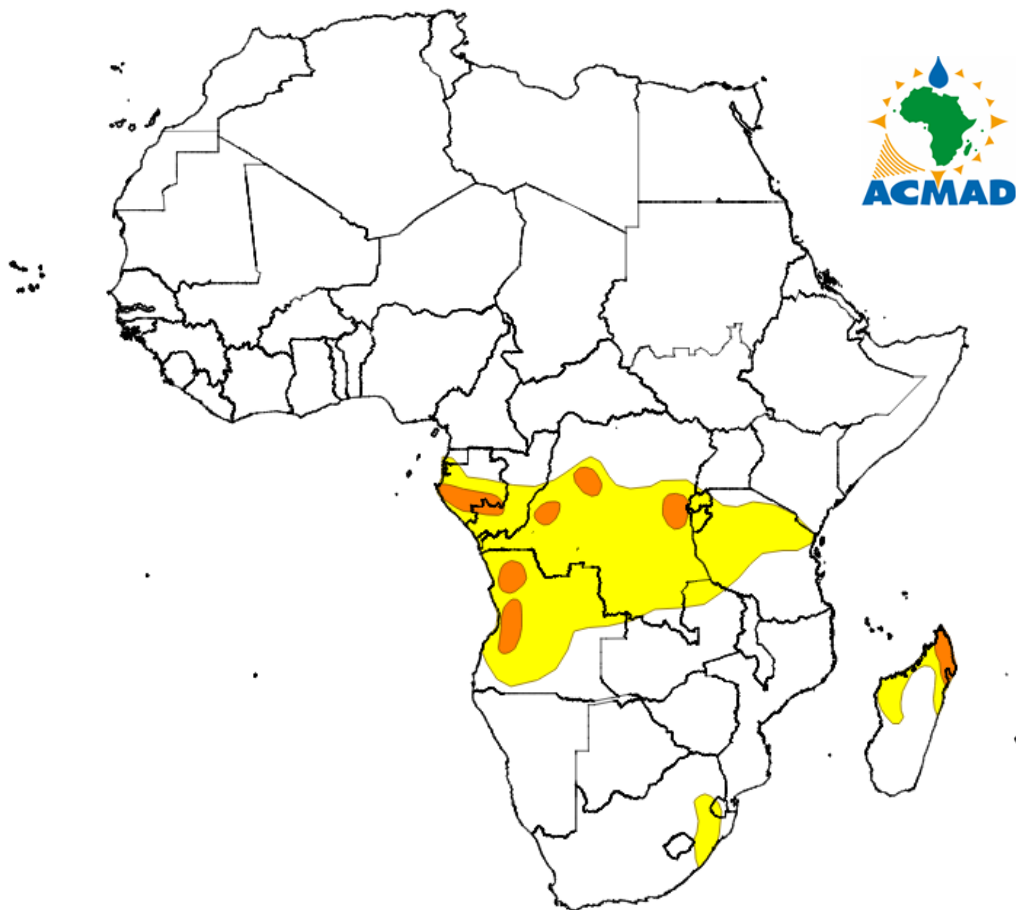


| <br>Rain | <br>Wind | <br>Dust | <br>Meningitis |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 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>                                                             |                                                                                                   |

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**HIGHLIGHT:** Heavy rainfall is expected in Gabon, Congo, D.R.C., Angola, 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, ...)                          | DRM authorities to keep informed about the development of the meteorological situation and raise awareness, taking action is more likely, the situation needs to be monitored closely 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, ...)                          | Update Flood contingency plans, Improve water management in reservoirs and dams, DRM authorities be ready to take adequate actions, DRM to be continuously in touch with NHMSs to be informed of the detailed expected meteorological conditions.                       |
|  | 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 service and DRM authorities to activate contingency plan for disaster preparedness and emergency response (awareness, assistance to victims, search & rescue operations ), and be in close touch with NHMS for further accuracy at the national level. |

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## Contributors

| Name                      | Function                          | Date       |
|---------------------------|-----------------------------------|------------|
| Dr. Lawal Kamoru Abiodun  | Thematic expert in Climate Change | 09-12-2024 |
| Godefroid Nshimirimana    | Thematic expert in meteorology    | 09-12-2024 |
| Leon Guy Razafindrakoto   | Thematic expert in meteorology    | 09-12-2024 |
| Dr. Pierre Kamsu          | Senior Expert Forecaster          | 09-12-2024 |
| Yacouba Oumarou           | On job training                   | 09-12-2024 |
| Joseph Polynus Thomas     | On job training                   | 09-12-2024 |
| Roa Ibrahim Abakar Bashir | On job training                   | 09-12-2024 |

## Versions

| Version | Date       | By               | Descriptions                                                      |
|---------|------------|------------------|-------------------------------------------------------------------|
| V0      | 09-12-2024 | WWFD forecasters | First draft for « Briefing », with all forecaster's contributions |
| Last    | 09-12-2024 | Dr. Pierre Kamsu | Final Review                                                      |



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**ClimSA**

INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME



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