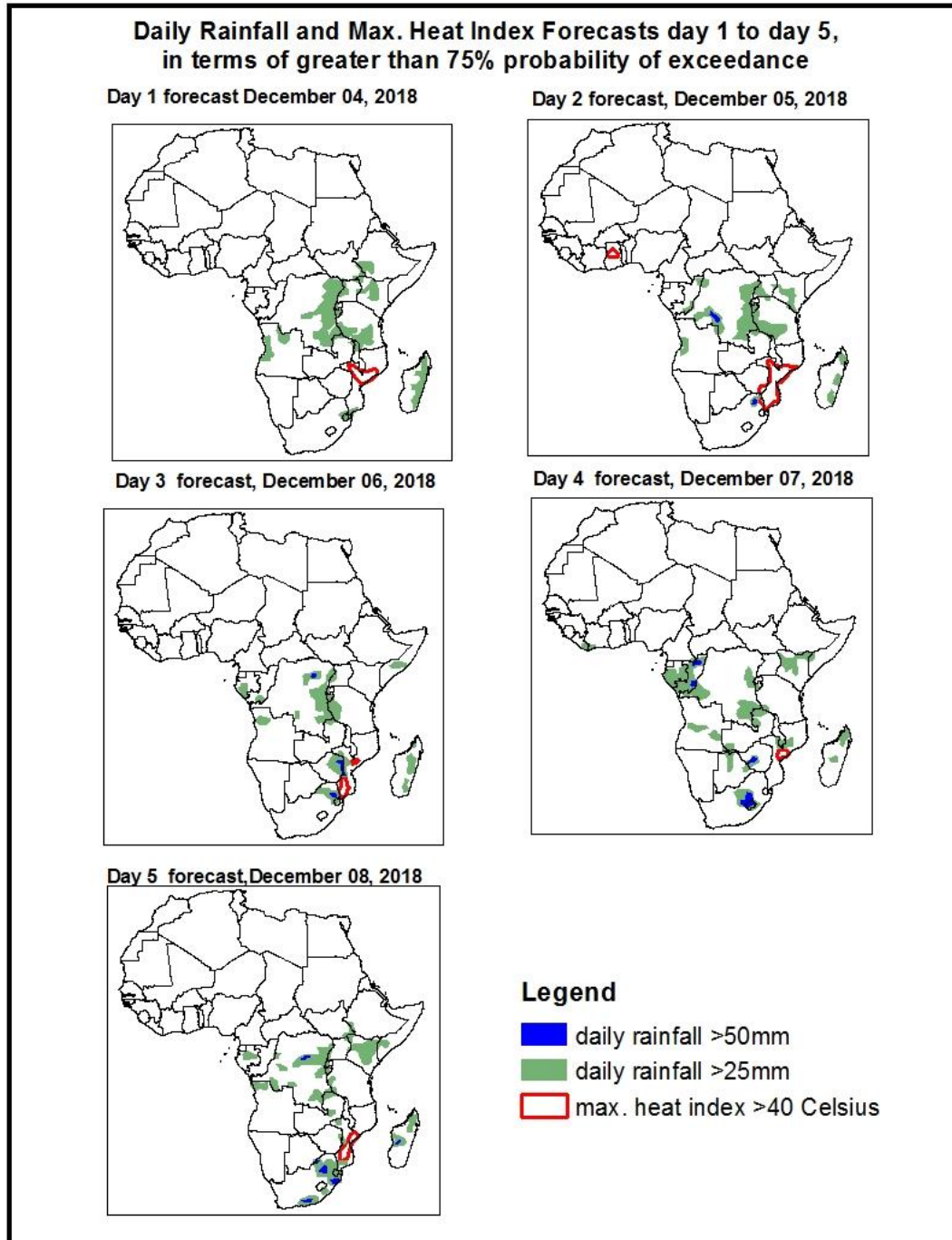


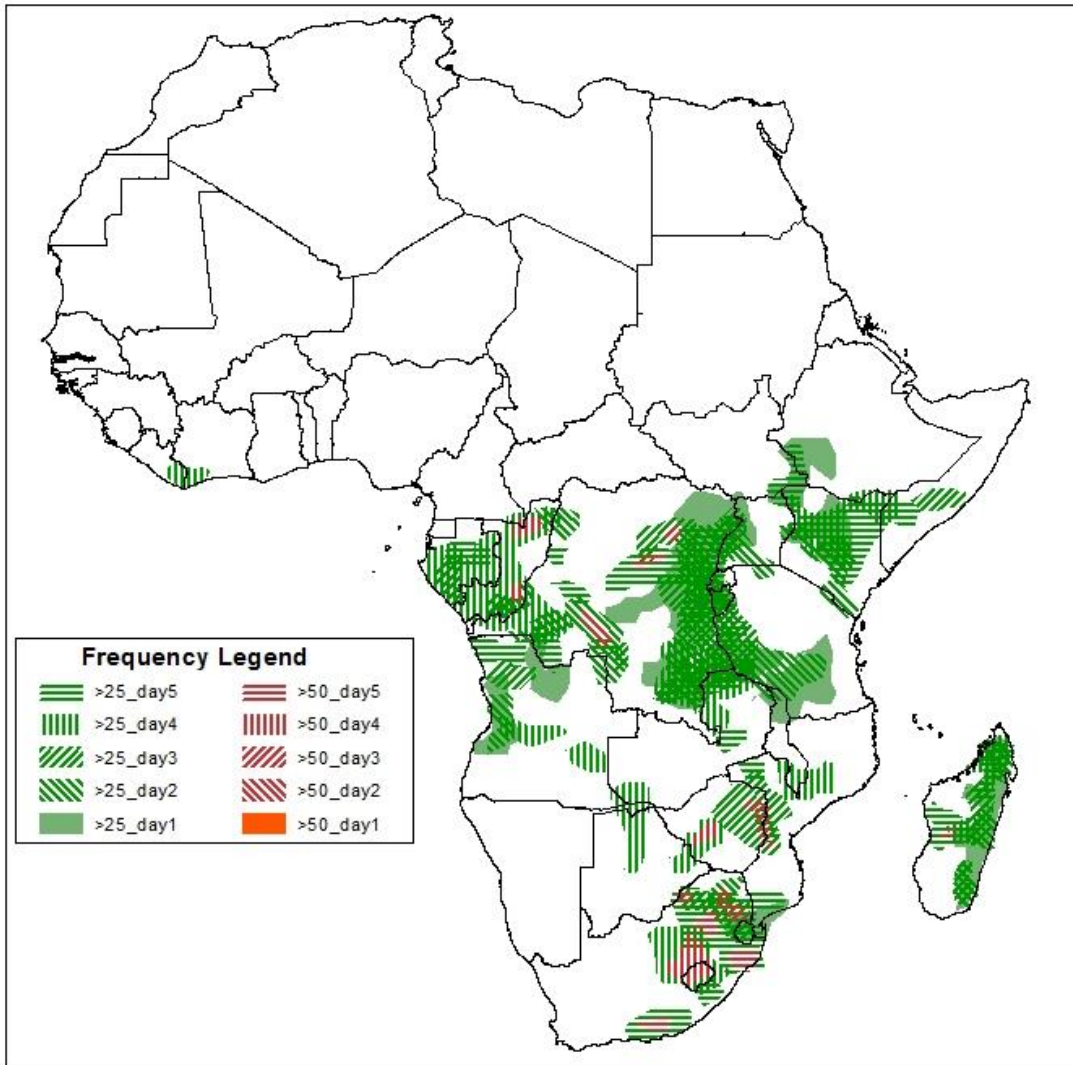
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on December 03, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Dec 04 -08, 2018)**

The forecasts are expressed in terms of high probability of precipitation (POP), valid 06Z to 06Z, and exceedance probability of maximum heat index (>40°C), based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



## Five Days Rainfall Forecast Summary December 04 - 08 , 2018.

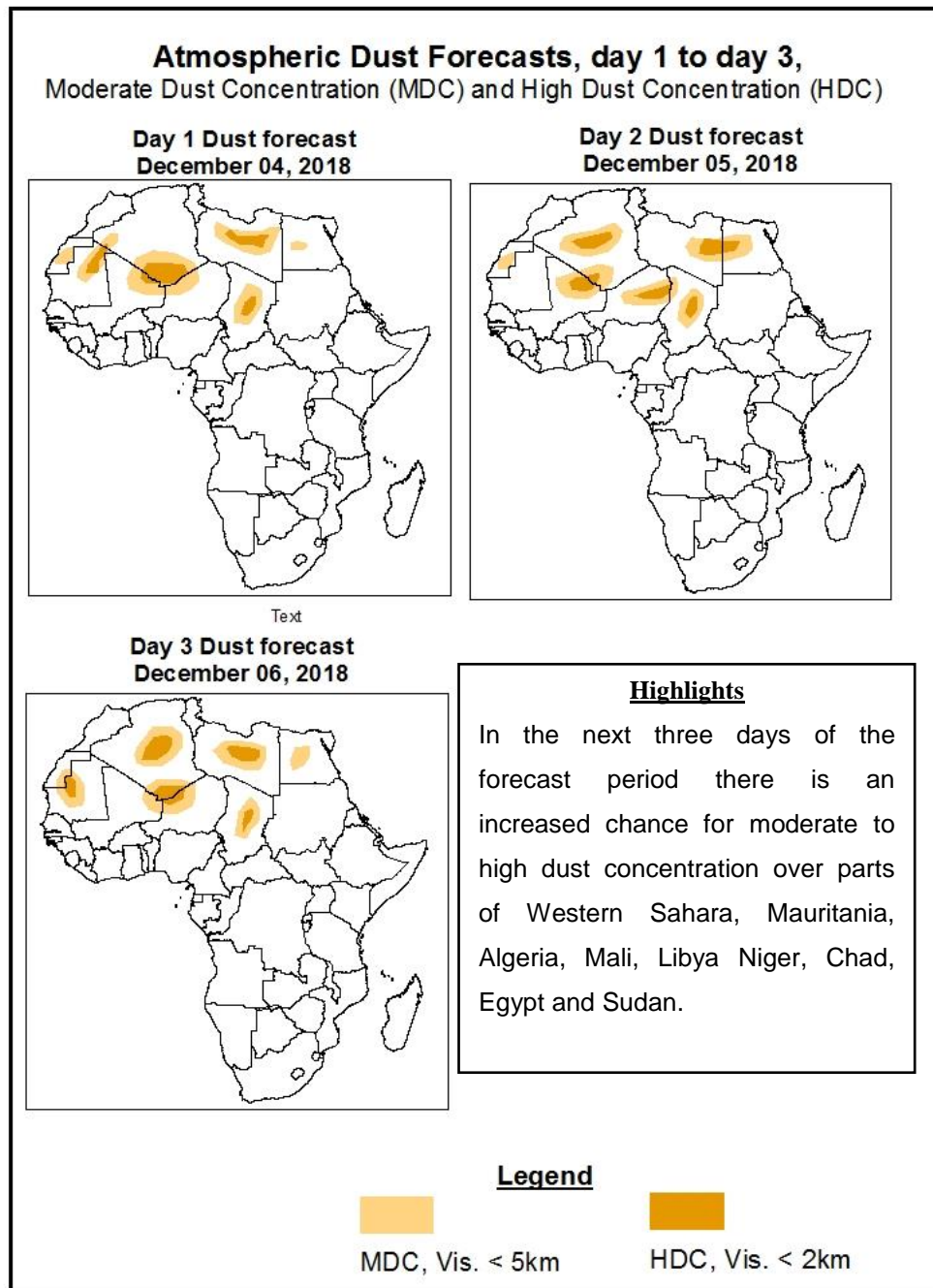


### **Highlights**

- In the next five days the Congo Air Boundary (CAB) is expected to continue been active over Central Africa and the northern parts of Southern African countries, The Angola low is expected to fluctuating over Southern Africa. These two systems are likely to enhance rainfall activities over most parts of Central and Southern African countries, there is a chance for moderate to heavy rainfall over localized areas of Congo Brazzaville, Congo DR, Angola, Zimbabwe, South Africa, Lesotho and Madagascar through the forecast period.
- There is a high likelihood for temperature heat index values to exceed 40<sup>0</sup>C over local areas of Ghana and Mozambique.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: December 04 – 08, 2018)

The forecasts are expressed in terms of high probability of dust concentration, based on the Navy Aerosol Analysis and Prediction System, NCEP/GFS lower-level wind forecasts and expert assessment.



### **1.3. Model Discussion, Valid: December 04 – 08, 2018**

The Azores High Pressure system over the North of Atlantic Ocean is expected to move eastwards. Its central pressure value is expected to vary between 1022hPa and 1033hPa through the forecast period.

A weak St. Helena High Pressure system over Southwest Atlantic Ocean is expected to intensify for the last two days of the forecast period. Its central pressure value is expected to increase from 1019hPa to 1027hPa through the forecast period.

The Mascarene High Pressure system over Southwest Indian Ocean is expected to intensify and maintain its position through the forecast period. Its central pressure value is expected to vary between 1029hPa to 1032hPa through the forecast period.

Deep Angola low Pressure system over Southern Africa is expected to cover most parts of the sub- region through the forecast period.

At 925hPa, strong northeasterly to easterly flow is expected to continue prevailing over most parts of Northern Africa and the Sahel region. Congo air boundary continues to remain active over the Central parts of the continent. Also, Northeasterly flow over Southern and the Southeast of Africa.

At 850hPa, Lower-level wind convergence associated with the Congo air boundary (CAB) over parts of Central Africa. Lower-level wind convergence associated with the Angola low over parts of Southern Africa.

In the next five days the Congo Air Boundary (CAB) is expected to continue been active over Central Africa and the northern parts of Southern African countries, The Angola low is expected to fluctuating over Southern Africa. These two systems are likely to enhance rainfall activities over most parts of Central and Southern African countries, there is a chance for moderate to heavy rainfall over localized areas of Congo Brazzaville, Congo DR, Angola, Zimbabwe, South Africa, Lesotho and Madagascar through the forecast period.

There is a high likelihood for temperature heat index values to exceed 40<sup>0</sup>C over local areas of Ghana and Mozambique.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (December 02, 2018)

Daily rainfall of less than 25mm was observed over Central and southern African countries.

### 2.2. Weather assessment for the current day (December 03, 2018)

Intense convective clouds are observed over some areas of Central and southern African countries.

