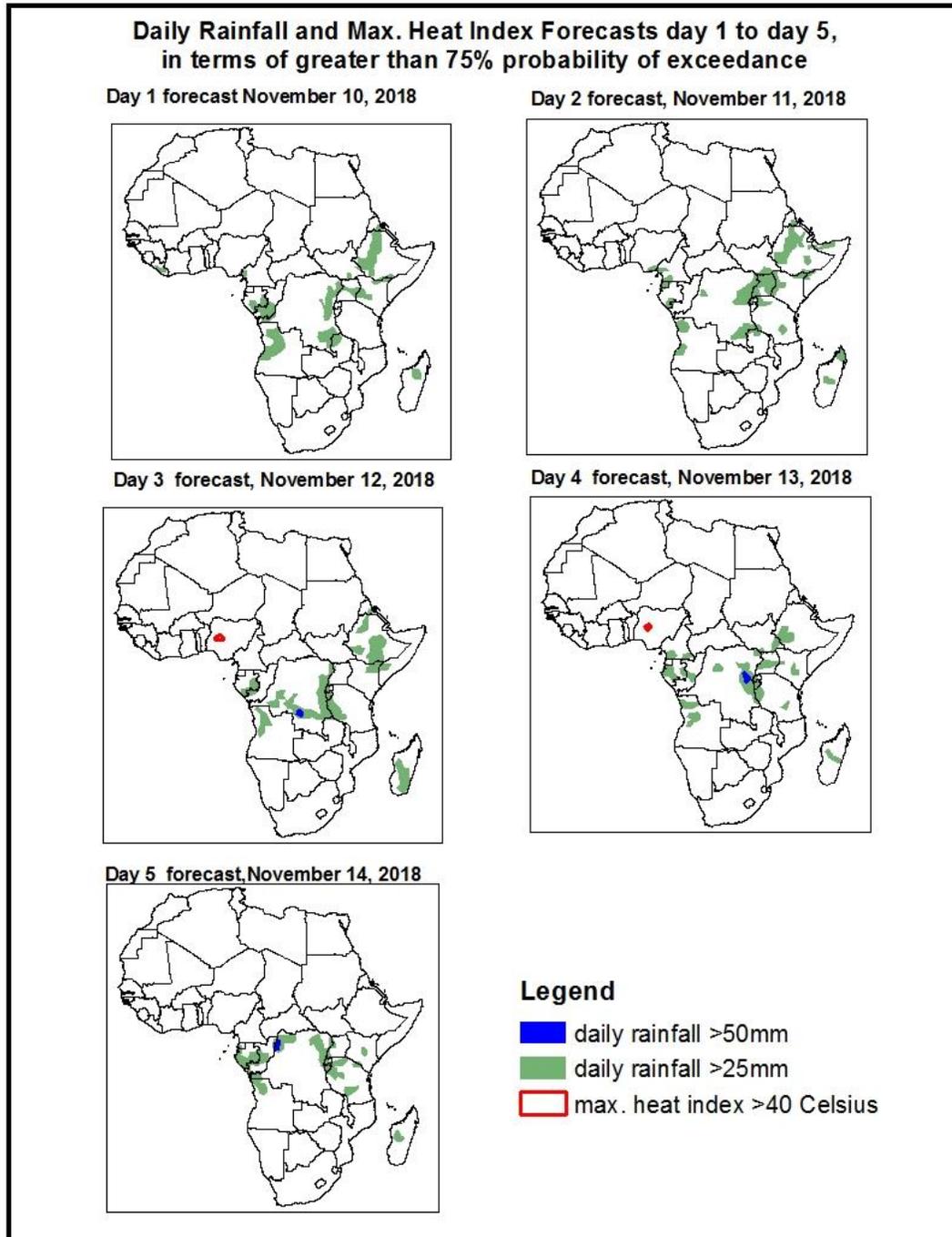


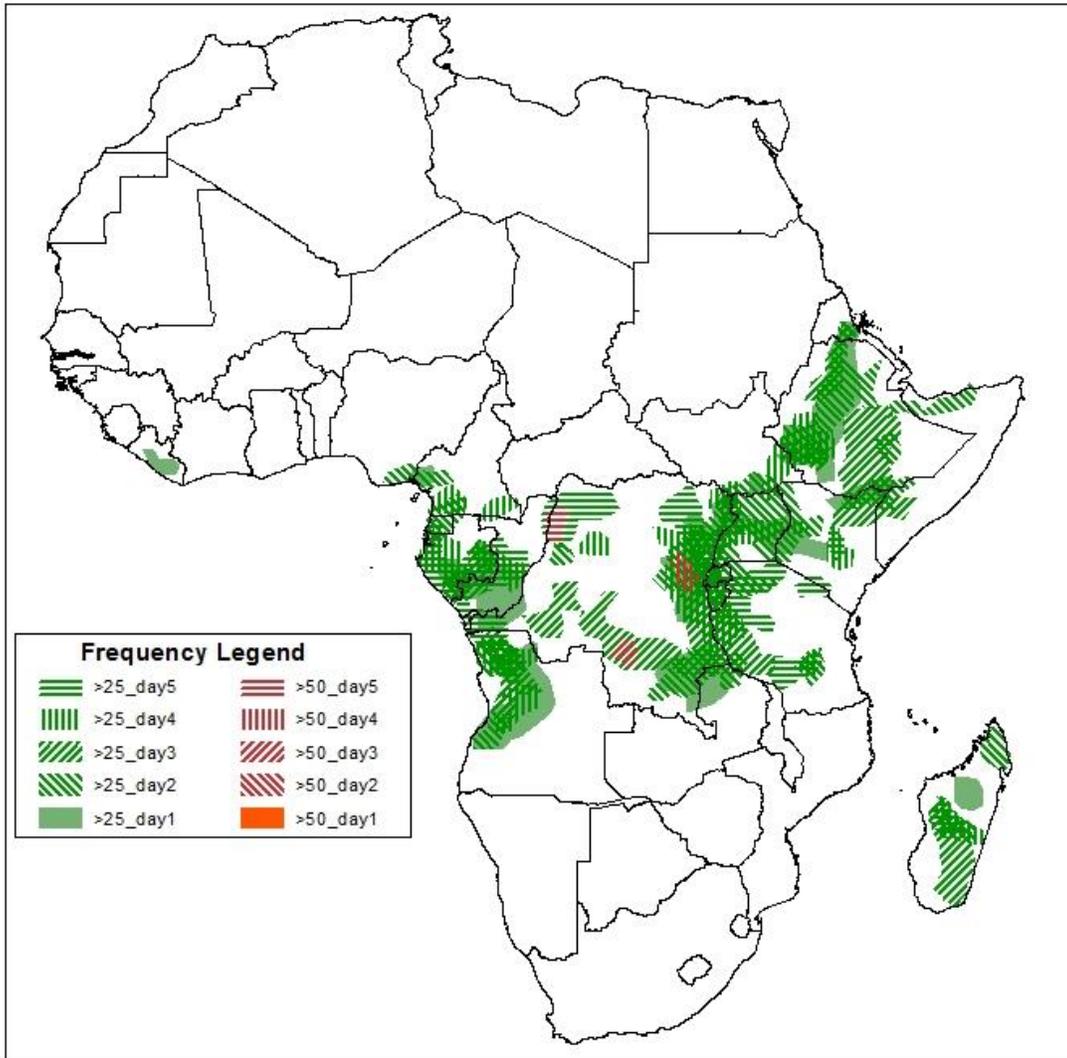
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on November 9, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Nov 10 - 14, 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 10 - 14 November , 2018.

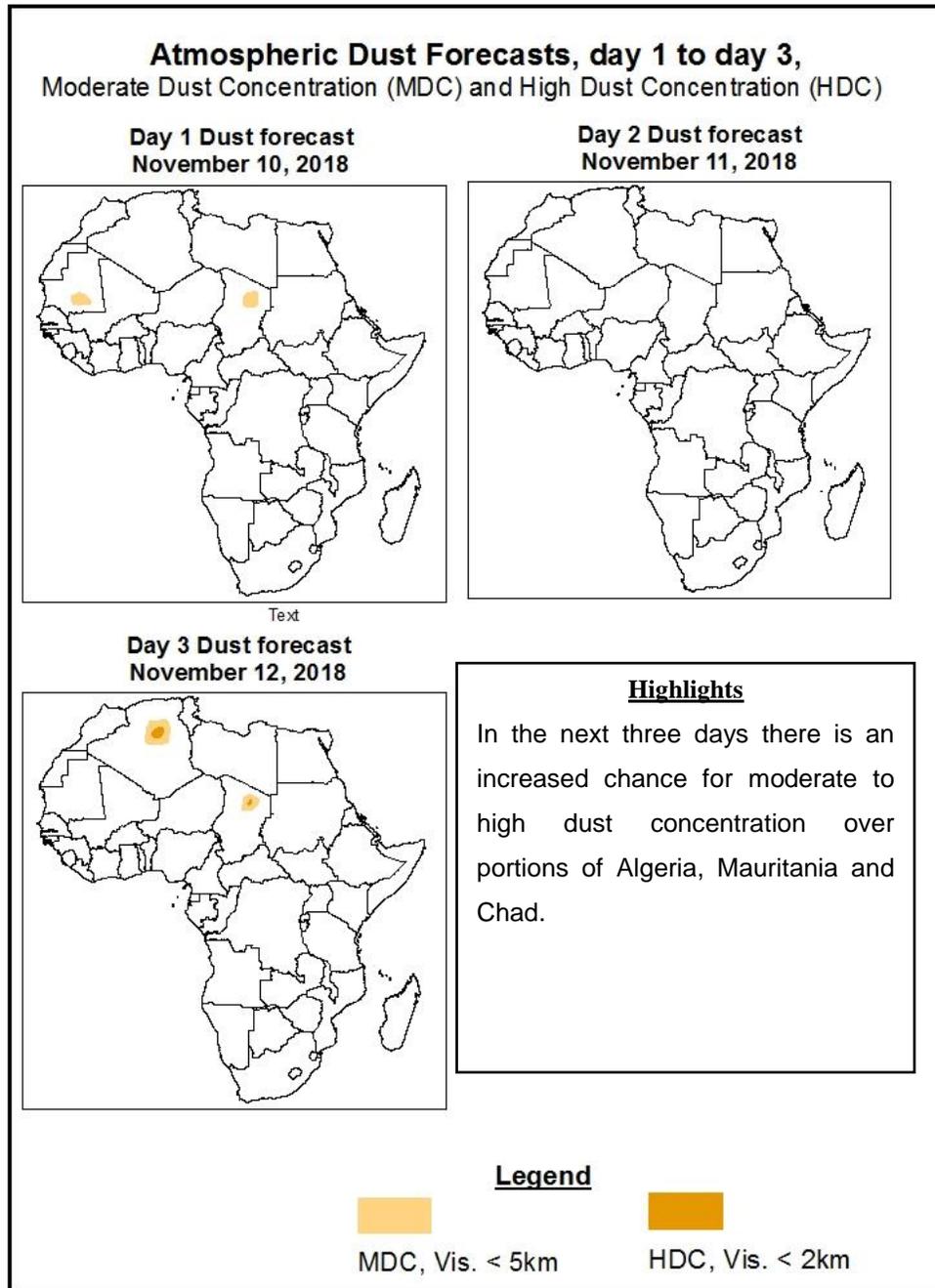


### **Highlights**

- In the next five days the Congo Air Boundary (CAB) is expected to continue oscillating about the Central and north of Southern Africa. There is a chance for moderate to heavy rainfall over Congo DR for the last three days of the forecast period.
- There is an increased chance for temperature heat index values to exceed 40<sup>0</sup>C over local areas of Nigeria.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: November 10 – 14, 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: November 10 – 14, 2018**

The Azores High Pressure system over the North Atlantic Ocean is expected to continue maintaining its strength. Its central pressure average value is expected to be at 1027hPa through the forecast period.

The St. Helena High Pressure system over Southwest Atlantic Ocean is expected to progress eastwards towards the sub-continent, its central pressure value is expected to decrease from 1031hPa to 1024hPa.

The Mascarene High Pressure system over Southwest Indian Ocean is expected to gain its strength as it progresses eastwards with its central pressure value expected to increase from 1025hPa to 1027hPa through the 48hrs. A developed Mascarene High Pressure system over Southwest of the Indian Ocean with its central pressure value expected to decrease from 1034hPa to 1031hPa as it moves eastwards towards the end of the forecast period.

At 925hPa, strong northeasterly to easterly flow is expected to prevail over most parts of northern Africa and the Sahel region. Moist and unstable Southwesterly winds are expected to prevail over Gulf of guinea and Central Africa.

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

In the next five days the Congo Air Boundary (CAB) is expected to continue oscillating about the Central and north of Southern Africa. There is a chance for moderate to heavy rainfall over Congo DR for the last three days of the forecast period.

There is an increased chance for temperature heat index values to exceed 40<sup>0</sup>C over local areas of Nigeria.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (November 8, 2018)

Above 25mm daily rainfall was observed over localized areas of Nigeria, Mozambique and Central African Countries.

### 2.2. Weather assessment for the current day (November 9, 2018)

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

