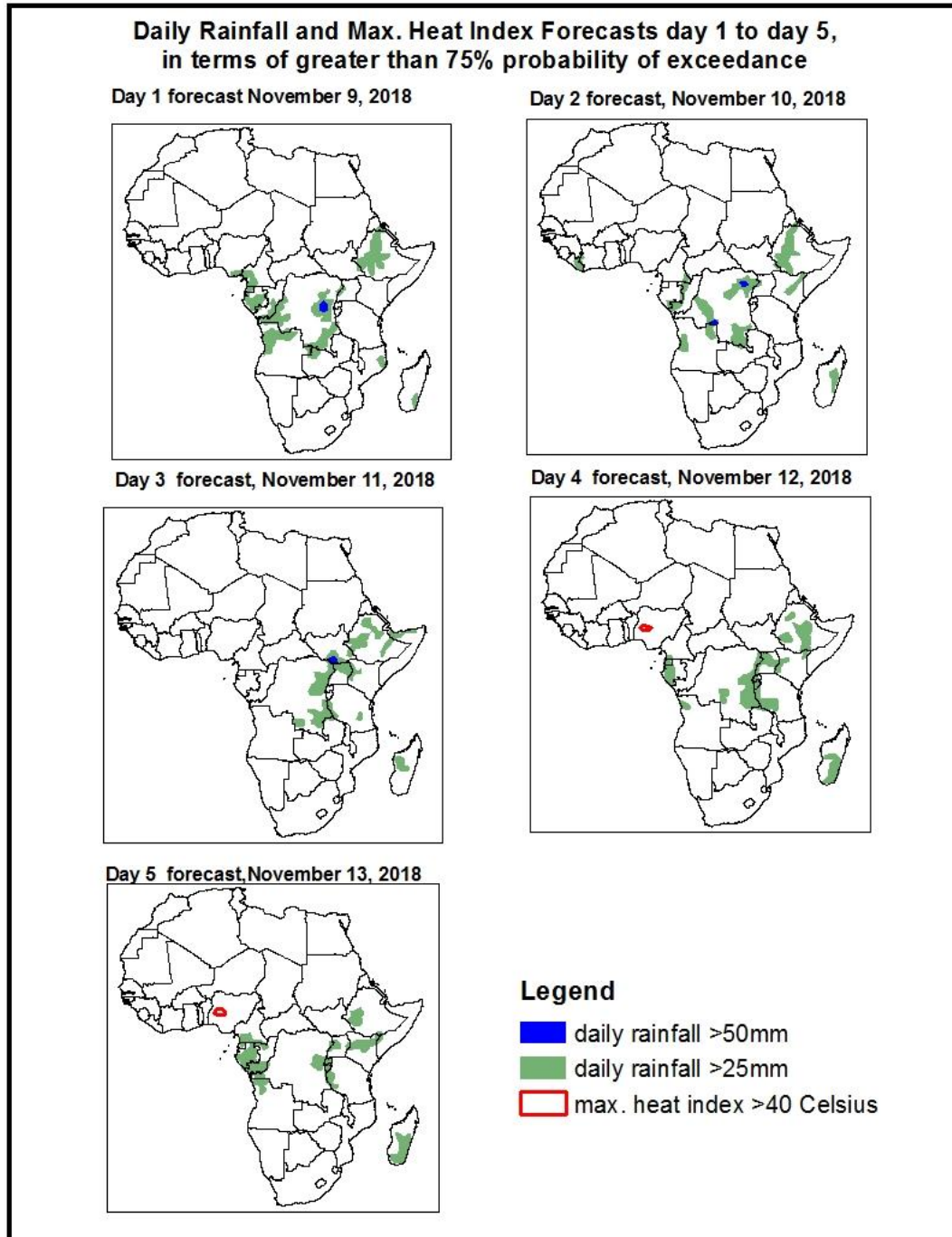


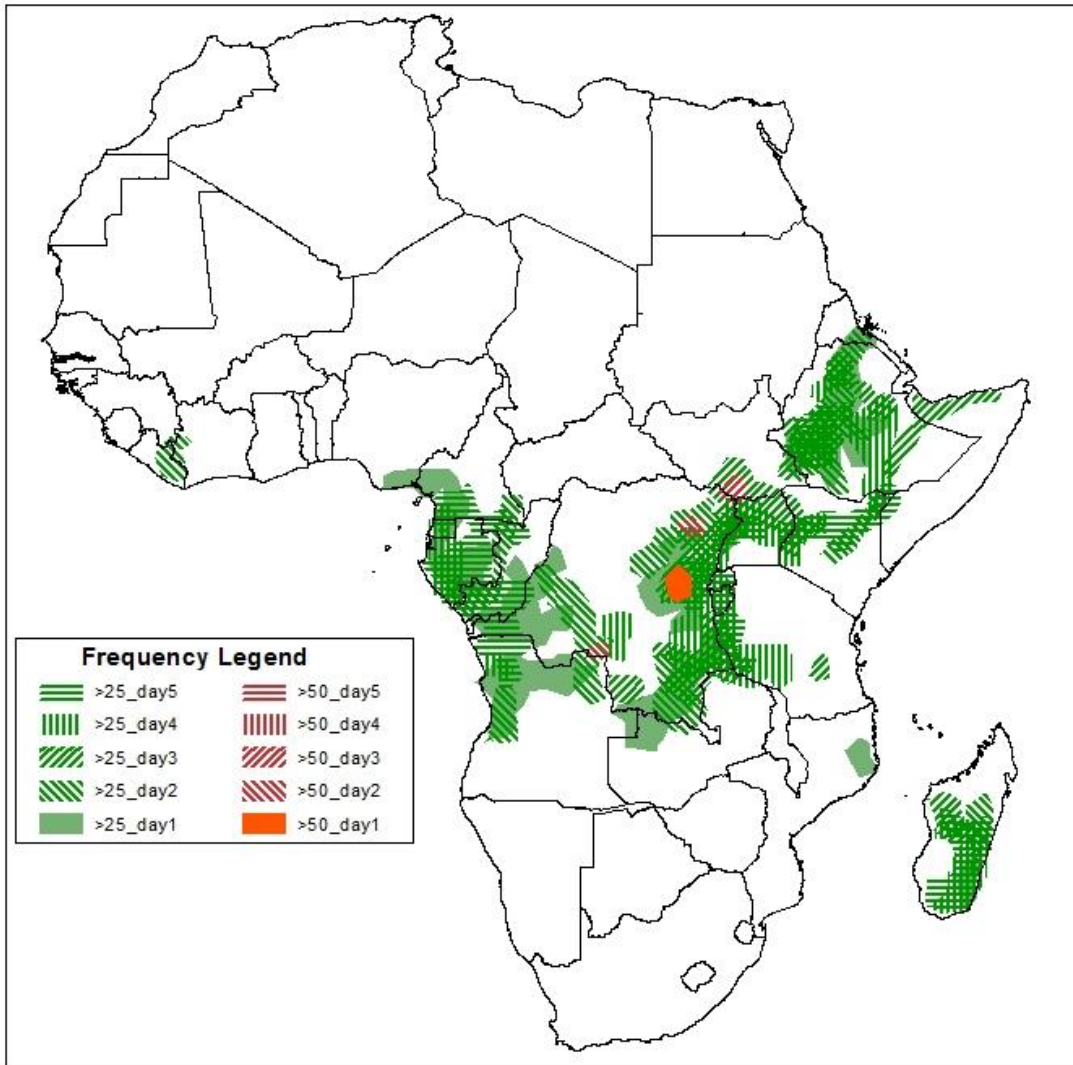
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on November 8, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Nov 9 - 13, 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 9 - 13 November , 2018.

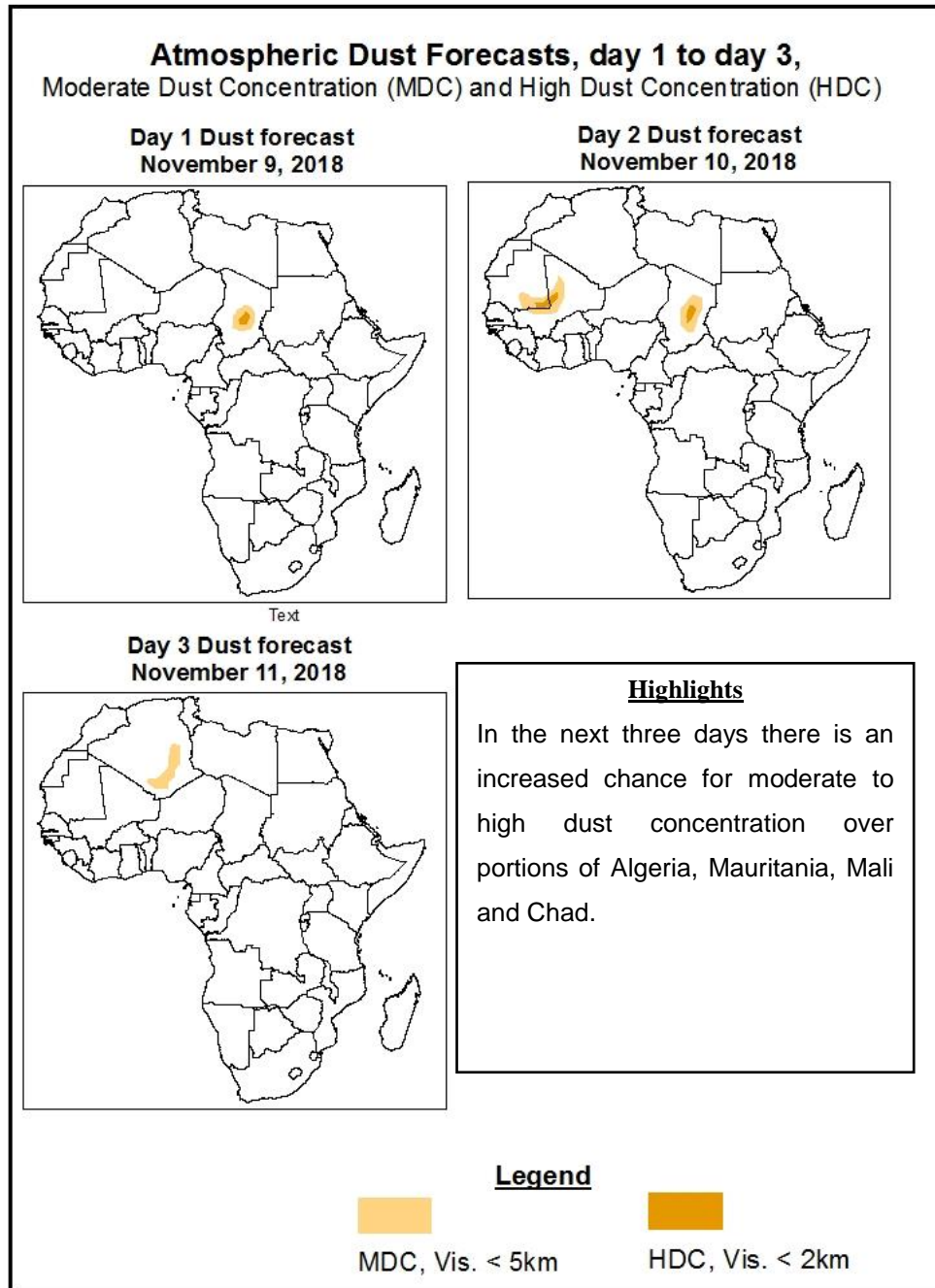


### **Highlights**

- 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 and South Sudan for the first 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 in the last two days of the forecast period.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: November 9 – 11, 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 9 – 13, 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 1021hPa.

The Mascarene High Pressure system over Southwest Indian Ocean is expected to maintain its position with its central pressure value expected to decrease from 1025hPa to 1024hPa through the 48hrs. A developed Mascarene High Pressure system over Indian Ocean with its central pressure value expected to decrease from 1034hPa to 1032hPa 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 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 and South Sudan for the first 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 in the last two days of the forecast period.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (November 7, 2018)

Above 25mm daily rainfall was observed over the northeast of Congo DR.

### 2.2. Weather assessment for the current day (November 8, 2018)

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

