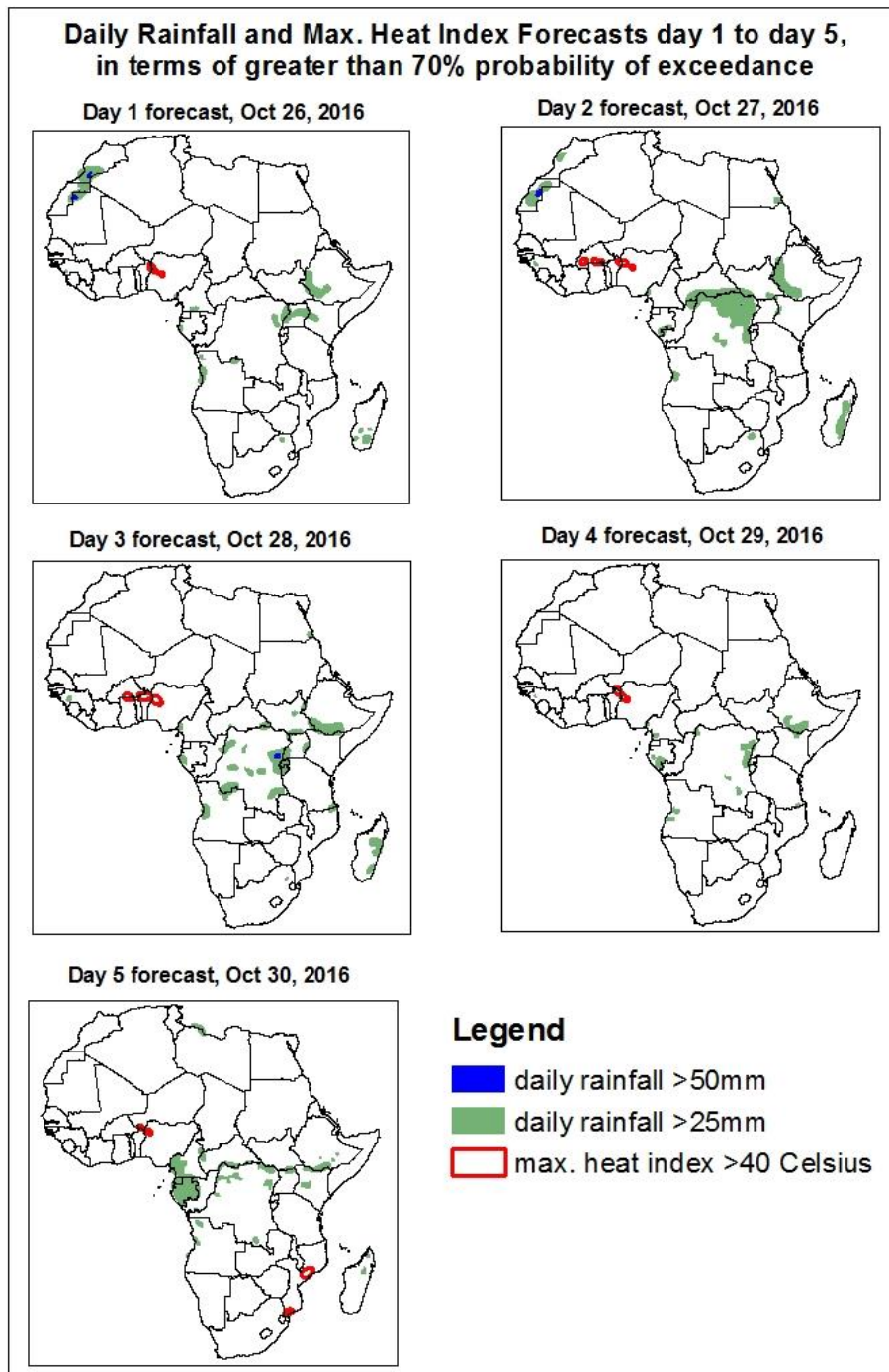


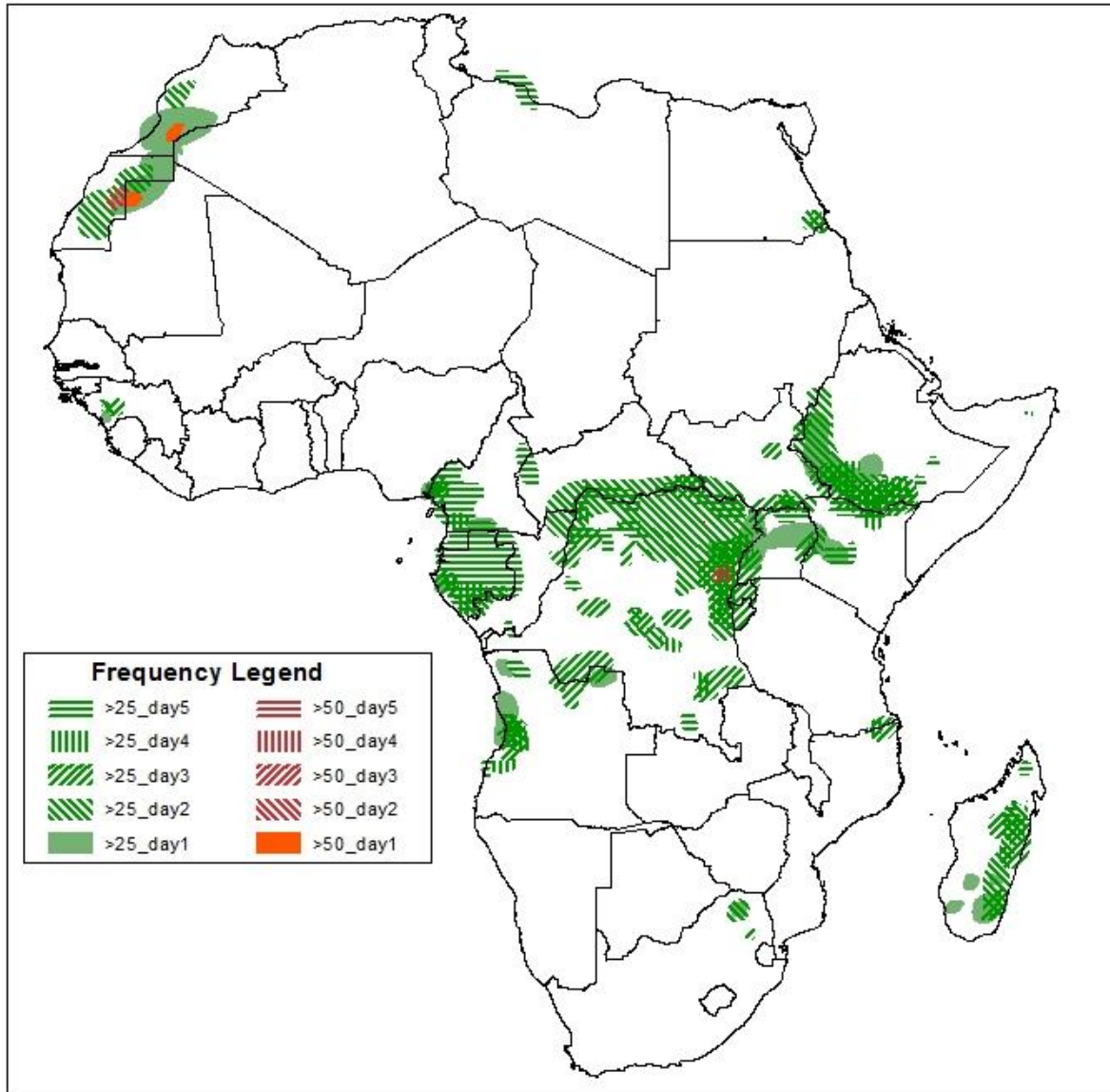
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Oct 25, 2016)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Oct 26– Oct 30 2016)**

The forecasts are expressed in terms of high probability of precipitation (POP) and high probability of maximum heat index, based on the NCEP/GFS, ECMWF and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



## Five Days Rainfall Forecast Summary Oct 26 - Oct 30, 2016

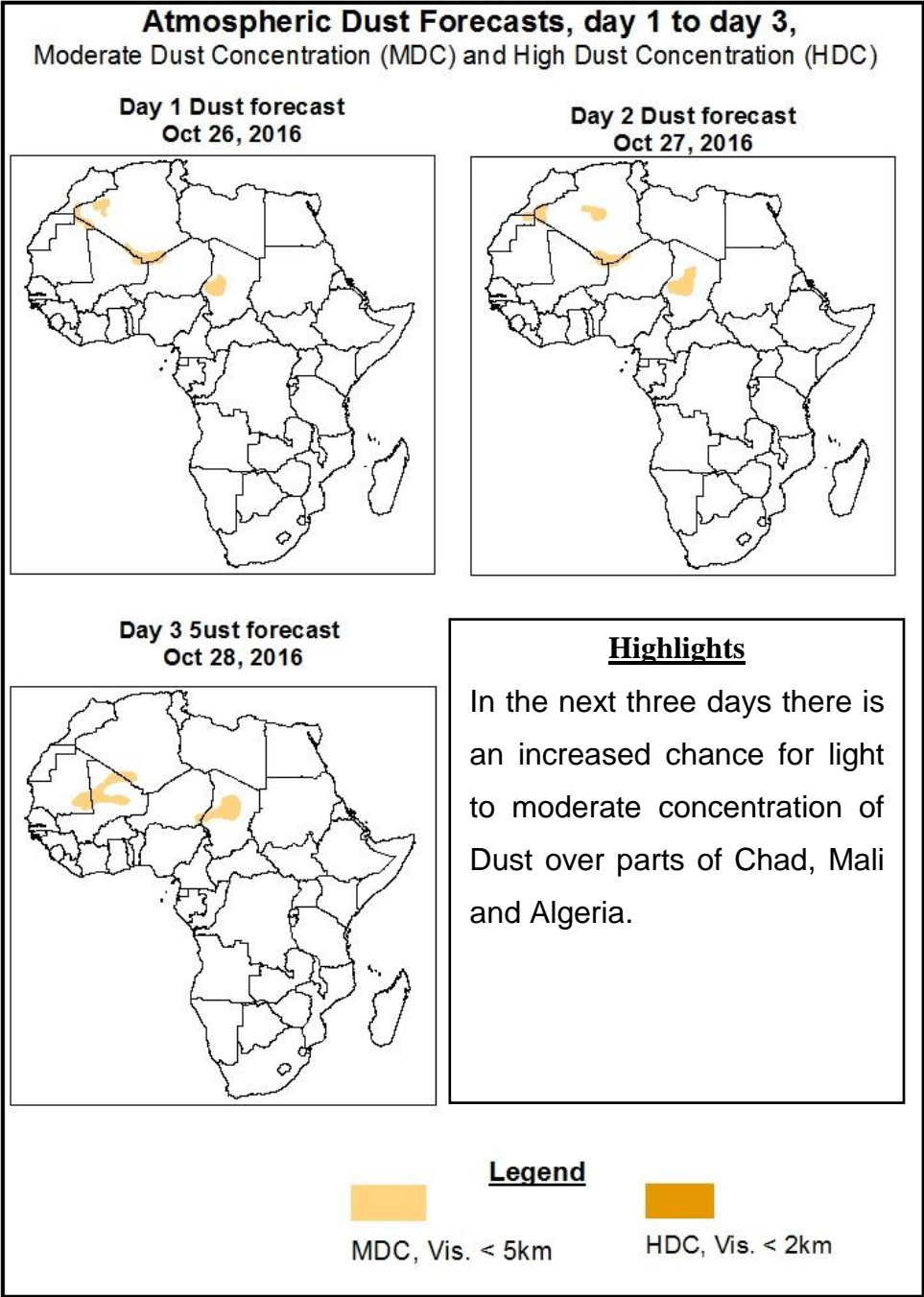


### **Highlights**

In the next five days, lower level wind convergences across CAR, DRC and the Greater Horn of Africa are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of moderate to heavy rainfall over portion of Gabon, local area of Guinea, Cameroon, CAR, DRC, Angola, Madagascar and the Greater Horn of Africa

**1.2. Atmospheric Dust Concentration Forecasts (valid: Oct 26– Oct 28 2016)**

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: Oct 26–Oct 30, 2016**

The Azores High Pressure system over the North Atlantic is expected to weaken, with its value of the central pressure decreasing from 1025 hPa to 1018 hPa during the forecast period.

The St. Helena High Pressure system on the Southeast of the Atlantic Ocean is expected to weaken, with its value of the central pressure decreasing from 1026 hPa to 1024 hPa in the next 48 hours, expected to intensify with its value from 1024 hPa to 1029 hPa during the 48 hours and 96 hours respectively. The pressure system is expected to weaken with its central value decreasing from 1029 hPa to 1024 hPa during the remaining forecast period.

The Mascarene High Pressure system over the Southeast Atlantic Ocean is expected to weaken, with its value of the central pressure decreasing from 1032 hPa to 1022 hPa during the forecast period.

At 925hPa, strong dry Northerly to Easterly winds may lead to light to moderate dust concentration over parts of Sudan, Chad, Mali, Libya, Algeria and Extreme Northern Nigeria.

At 850hPa level, lower level wind convergences are expected to prevail in Angola, CAR, DRC and Greater Horn of Africa.

In the next five days, lower level wind convergences across CAR, DRC and the Greater Horn of Africa are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of moderate to heavy rainfall over portion of Gabon, local area of Guinea, Cameroon, CAR, DRC, Angola, Madagascar and the Greater Horn of Africa

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Oct 24, 2016)

Moderate to locally heavy rainfall was observed over portion of Sierra Leone, Cote d'Ivoire, Mali, Sudan, South Sudan, DRC, Swaziland and Southeast Nigeria.

### 2.2. Weather assessment for the current day (Oct 25, 2016)

Intense convective clouds are observed over portions of Nigeria, Congo, DRC, Equatorial Guinea, Sudan, South Sudan, Rwanda, Ethiopia, Zambia and Madagascar.

