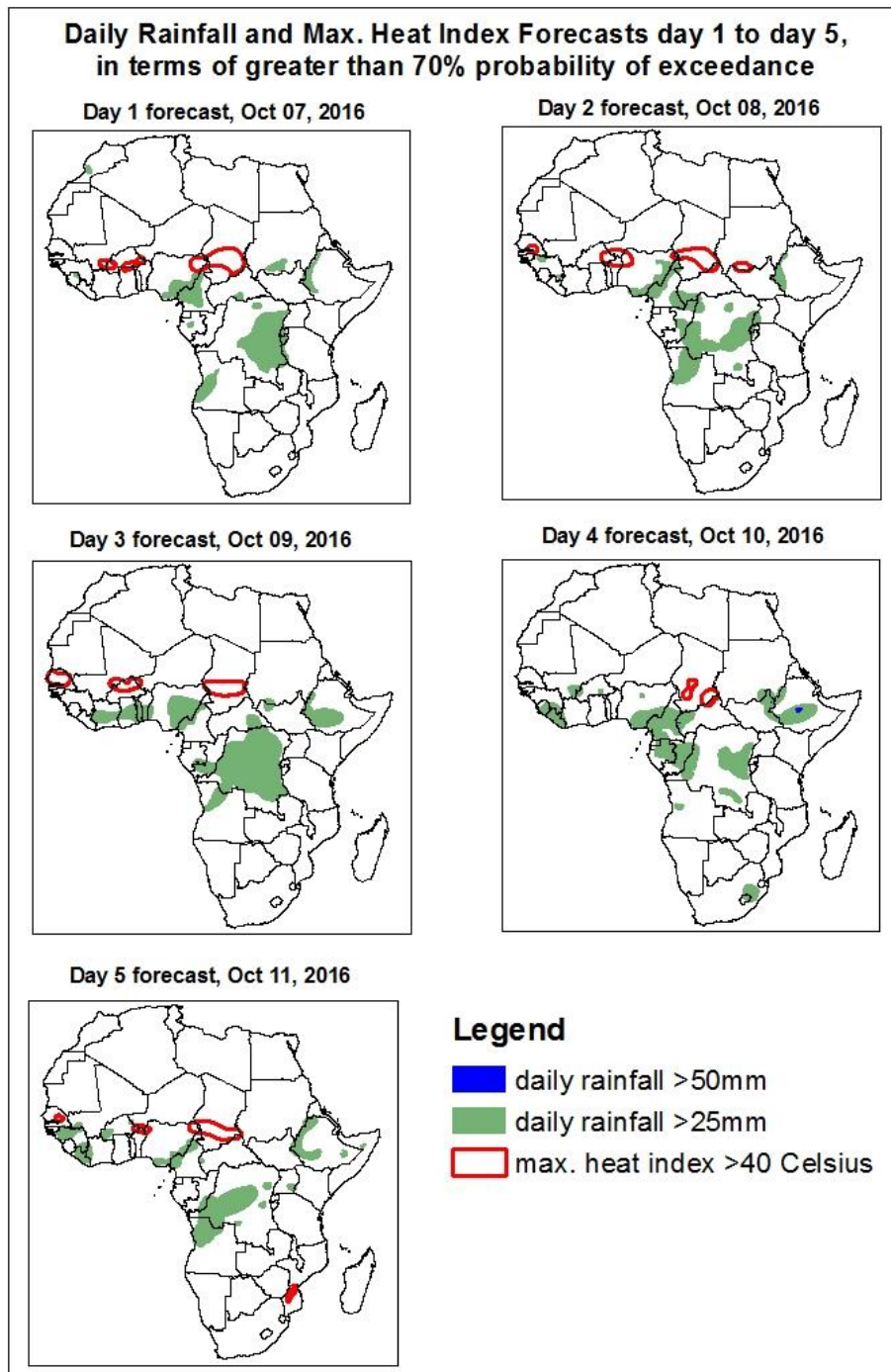


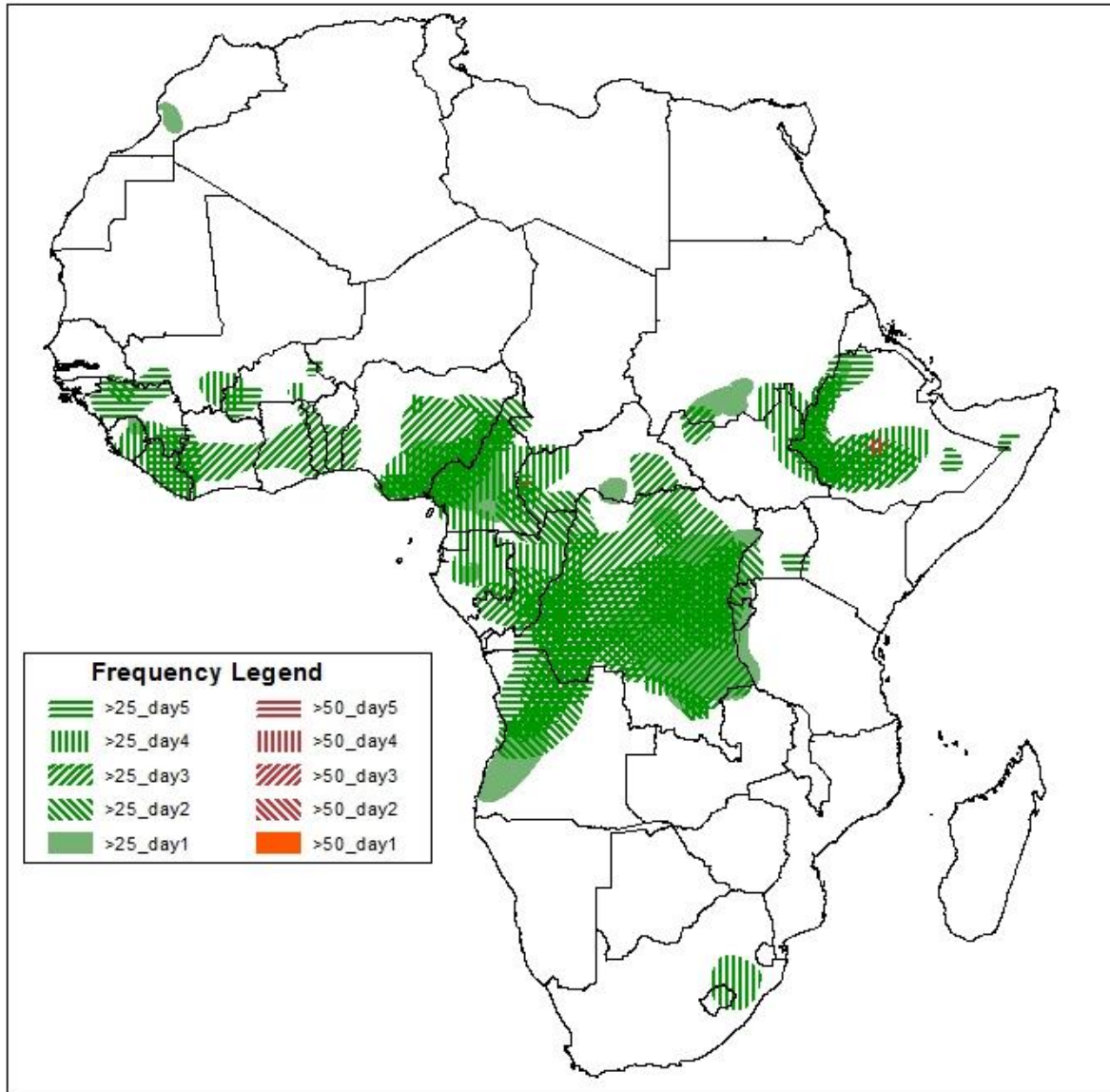
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Oct 06, 2016)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Oct 07– Oct 10 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 07 - Oct 11, 2016

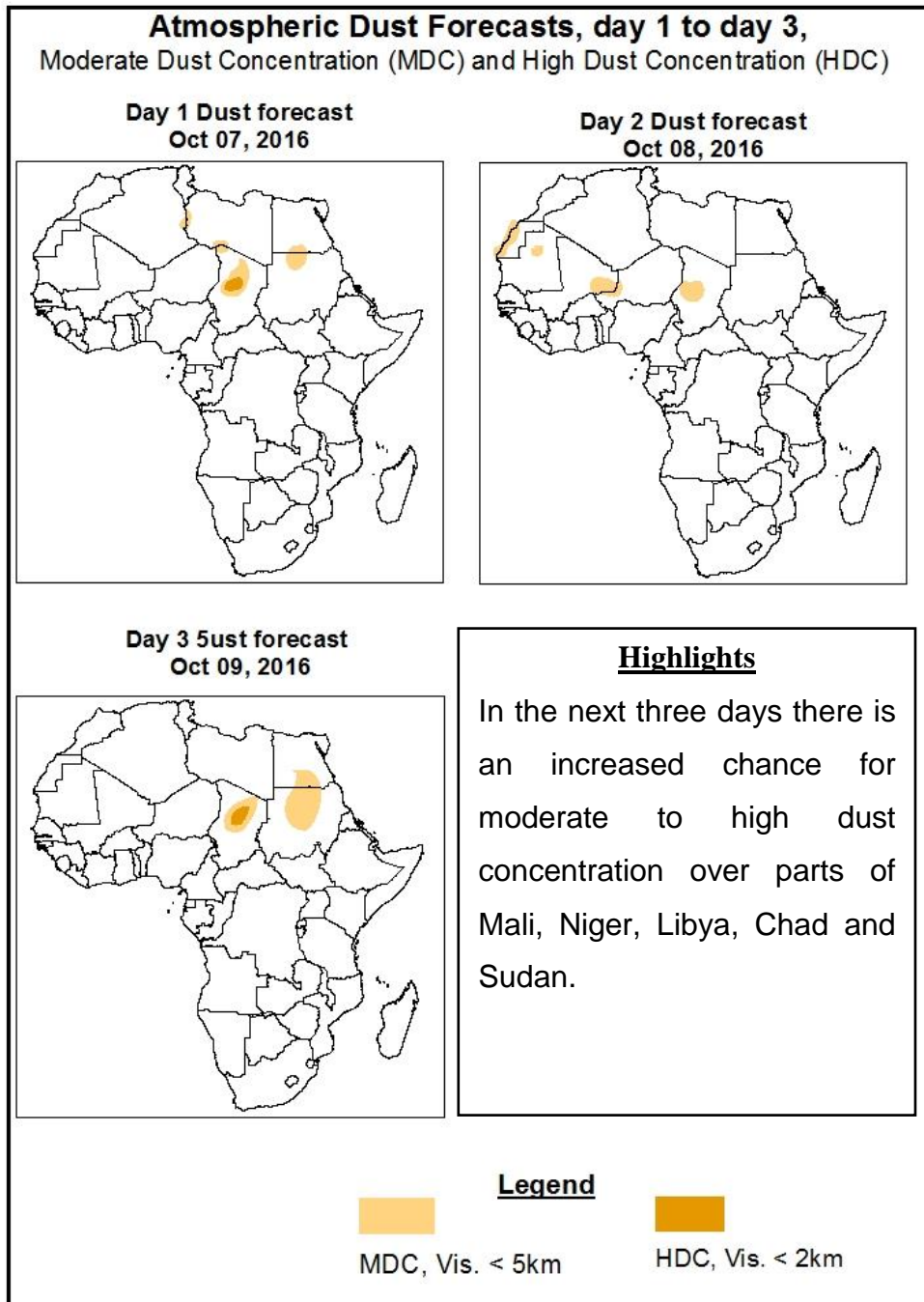


### **Highlights**

In the next five days, monsoon flow from the Atlantic Ocean across the Gulf of Guinea region, and lower level wind convergences across Central 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 local areas in Guinea and Sera Leone, Cote d'Ivoire and Burkina Faso, portions of Liberia, Nigeria and Cameroon, local areas in Gabon and CAR, portions of Congo, DRC, Angola, Burundi and Rwanda, local areas in Sudan, portions of Ethiopia.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Oct 07– Oct 09 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 07–Oct 11, 2016**

The Azores high pressure system over the North Atlantic is expected to intensify, with its value of the central pressure increasing from 1022 hPa to 1027 hPa from 24 hours to 72 hours and tends to weaken, with its value of central pressure decreasing from 1027 hPa to 1022 hPa between 72 hours to 120 hours.

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 1031 hPa to 1027 hPa during the forecast period.

The Mascarene High pressure system over the Southeast Atlantic Ocean is to intensify, with its value of the central pressure increasing from 1030 hPa to 1031 hPa from 24 hours to 72 hours and tends to weaken, with its value of central pressure decreasing from 1031 hPa to 1027 hPa between 72 hours to 120 hours.

At 925hPa, strong dry to northerly easterly winds may lead to moderate to high dust concentration over parts of Mali, Niger, Libya, Chad and Sudan.

At 850hPa level, lower level wind convergences are expected to prevail in central and the Greater Horn of Africa.

In the next five days, monsoon flow from the Atlantic Ocean across the Gulf of Guinea region, and lower level wind convergences across Central 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 local areas in Guinea and Sera Leone, Cote d'Ivoire and Burkina Faso, portions of Liberia, Nigeria and Cameroon, local areas in Gabon and CAR, portions of Congo, DRC, Angola, Burundi and Rwanda, local areas in Sudan, portions of Ethiopia.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Oct 05, 2016)

Moderate to locally heavy rainfall was observed over local areas in Guinea, Mali and Cameroon, portions of Southern Chad, CAR, Northern DRC, and Sudan, local areas in Ethiopia.

### 2.2. Weather assessment for the current day (Oct 06, 2016)

Intense convective clouds are observed over local areas in Nigeria, Cameroon, Chad, CAR and Sudan, portion of DRC, Uganda, local areas in Tanzania and Angola.

