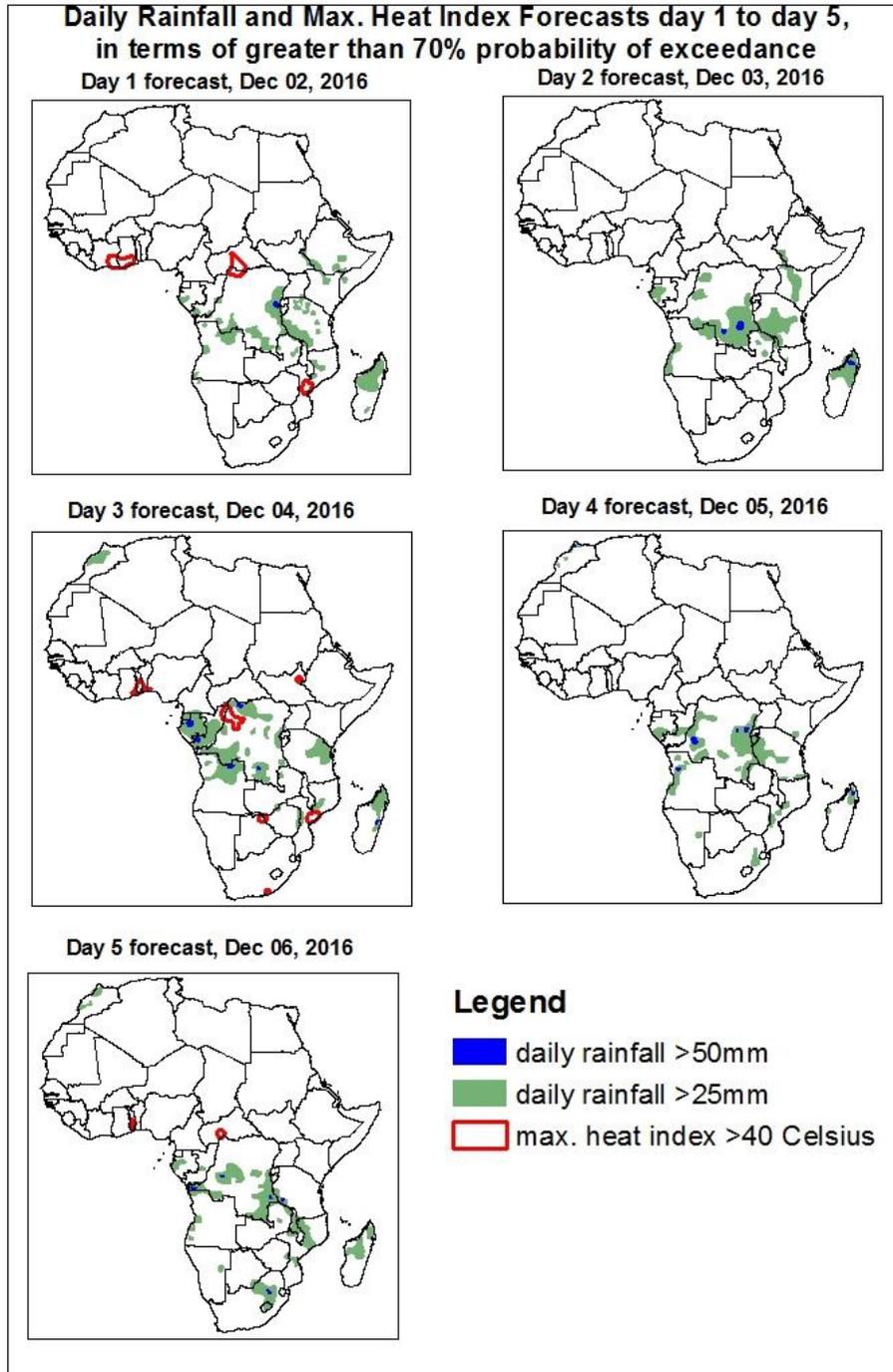


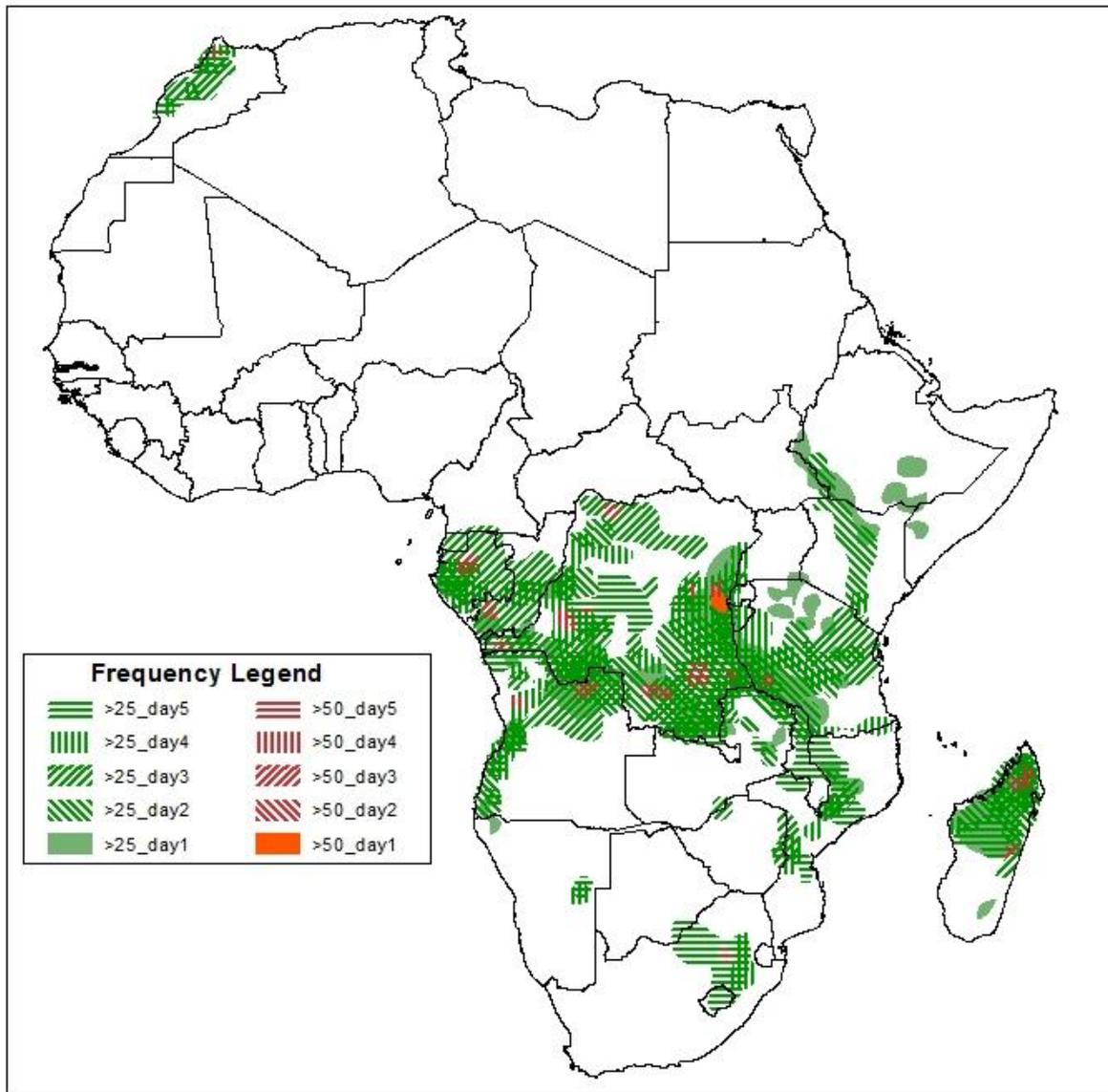
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Dec 01, 2016)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Dec 02– Dec 06, 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 Dec 02 - Dec 06, 2016

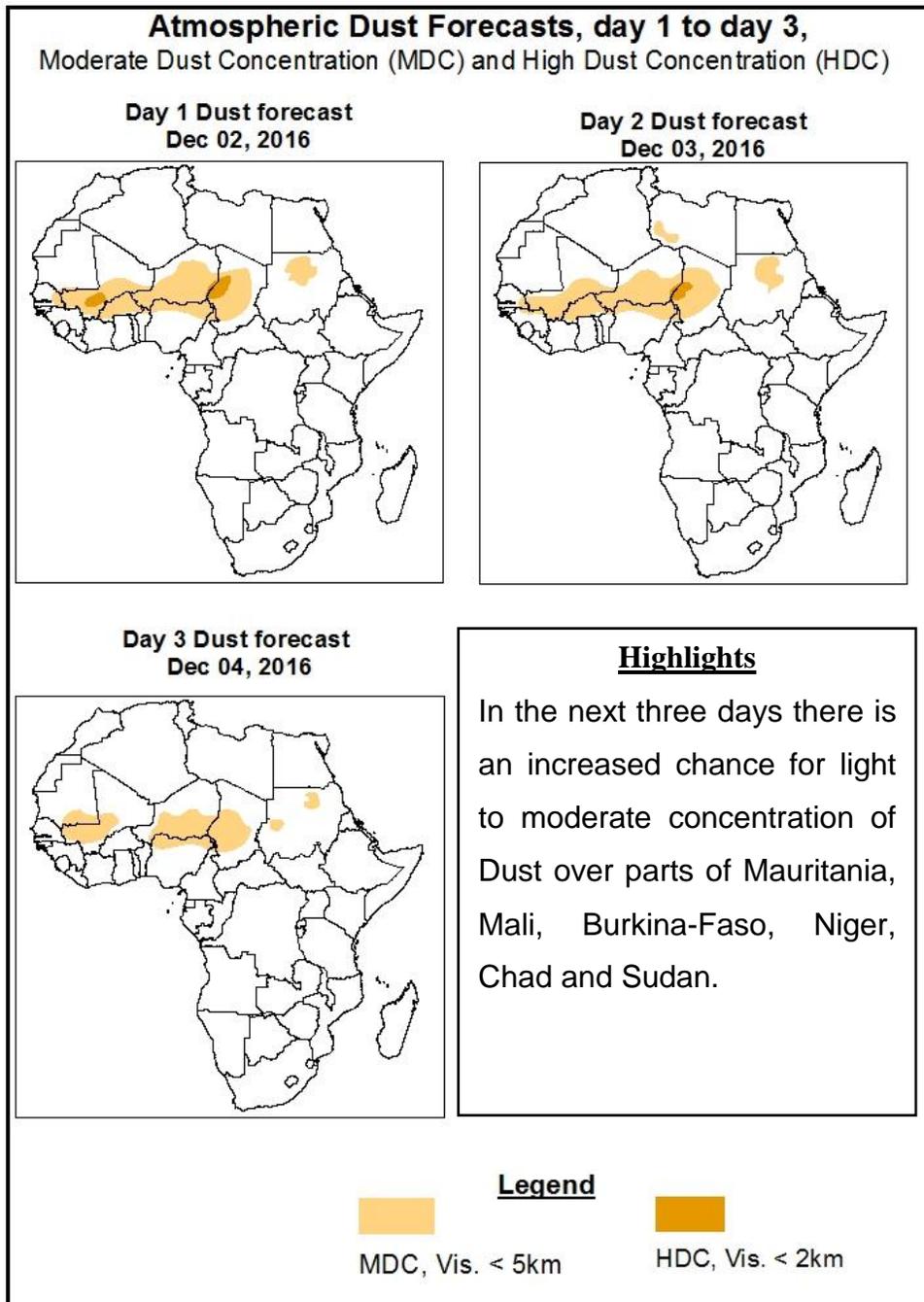


### **Highlights**

In the next five days, lower level wind convergences in Congo-Brazzaville, DRC, Tanzania and Angola are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of light to moderate rainfall over portion of Gabon, Congo and DRC, local area in Morocco, Angola, Tanzania, South Africa, Mozambique and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Dec 02– Dec 04, 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: Dec 02–Dec 06, 2016**

The Sub-Tropical High Pressure system over the Libya is expected to weaken, with its value of the central pressure decreasing from 1026hPa to 1025hPa in the next 72 hours, intensify to 1031hPa during remaining forecast period.

The St. Helena High Pressure system over the Southeast of the Atlantic Ocean is expected to weaken, with its value of the central pressure decreasing from 1023hPa to 1021hPa in the next 48 hours, intensifies to 1024hPa in the next 96 hours, and weakens to 1020hPa during the remaining forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken, with its value of the central pressure decreasing from 1022hPa to 1020hPa in the next 72 hours, intensify to 1023hPa during the remaining forecast period.

At 925hPa, strong dry Northerly to Easterly winds may lead from light to moderate dust concentration over parts of Mauritania, Mali, Burkina-Faso, Niger, Chad, Northern Nigeria, Libya and Sudan.

At 850hPa level, lower level wind convergences are expected to prevail over CAR, DRC, Angola, Zambia, Botswana, Tanzania and South Sudan.

In the next five days, lower level wind convergences in Congo-Brazzaville, DRC, Tanzania and Angola are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of light to moderate rainfall over portion of Gabon, Congo and DRC, local area in Morocco, Angola, Tanzania, South Africa, Mozambique and Madagascar.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Nov 30, 2016)

Light to moderate rainfall was observed over portion of Gabon, CAR, DRC, Zambia and Madagascar.

### 2.2. Weather assessment for the current day (Dec 01, 2016)

Intense convective clouds are observed over portions of Liberia, Equatorial Guinea, Gabon, Congo, DRC, Angola, Zambia, Namibia, South Africa, Swaziland, Tanzania, Somalia, Ethiopia and Madagascar.

