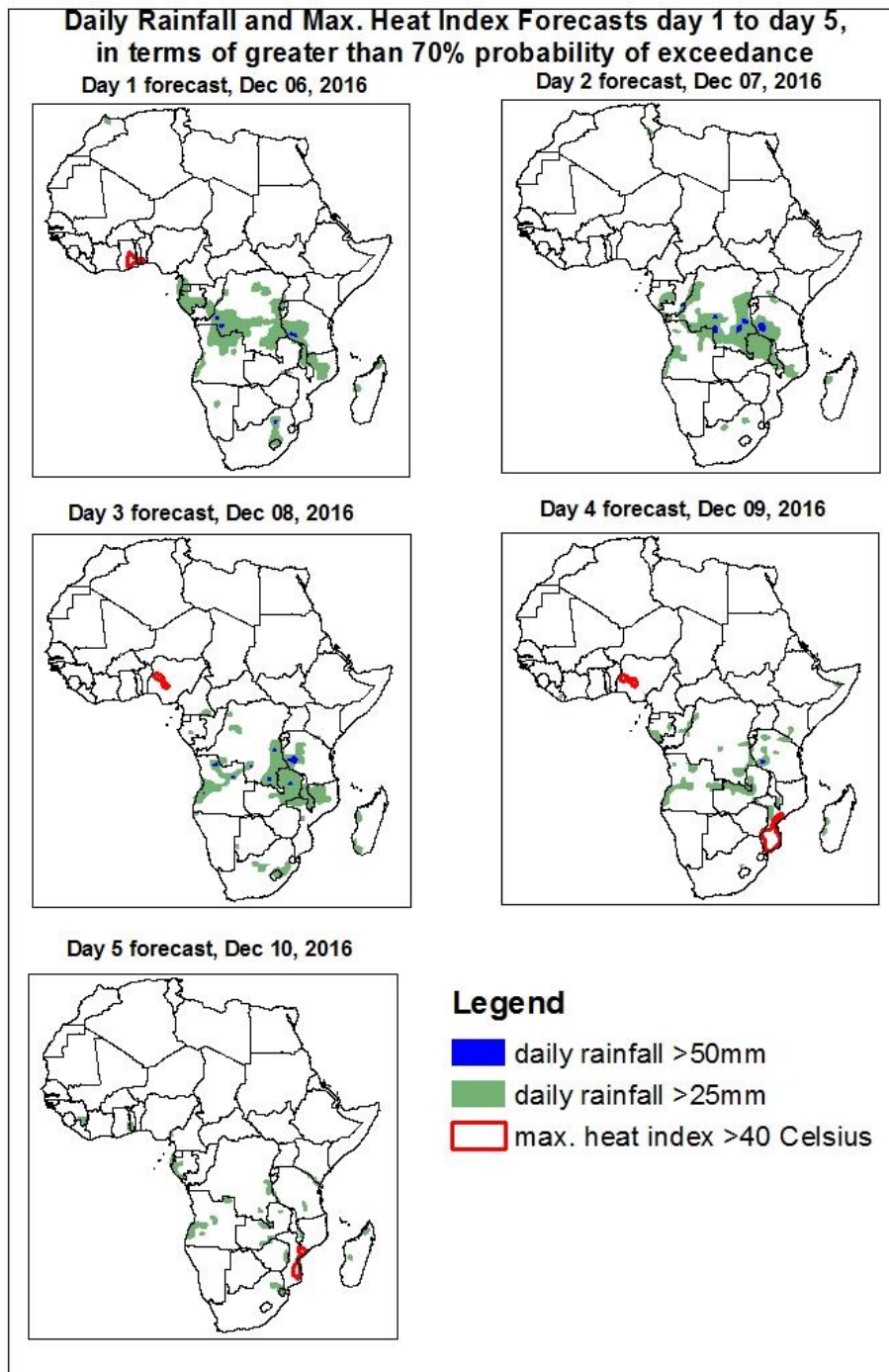


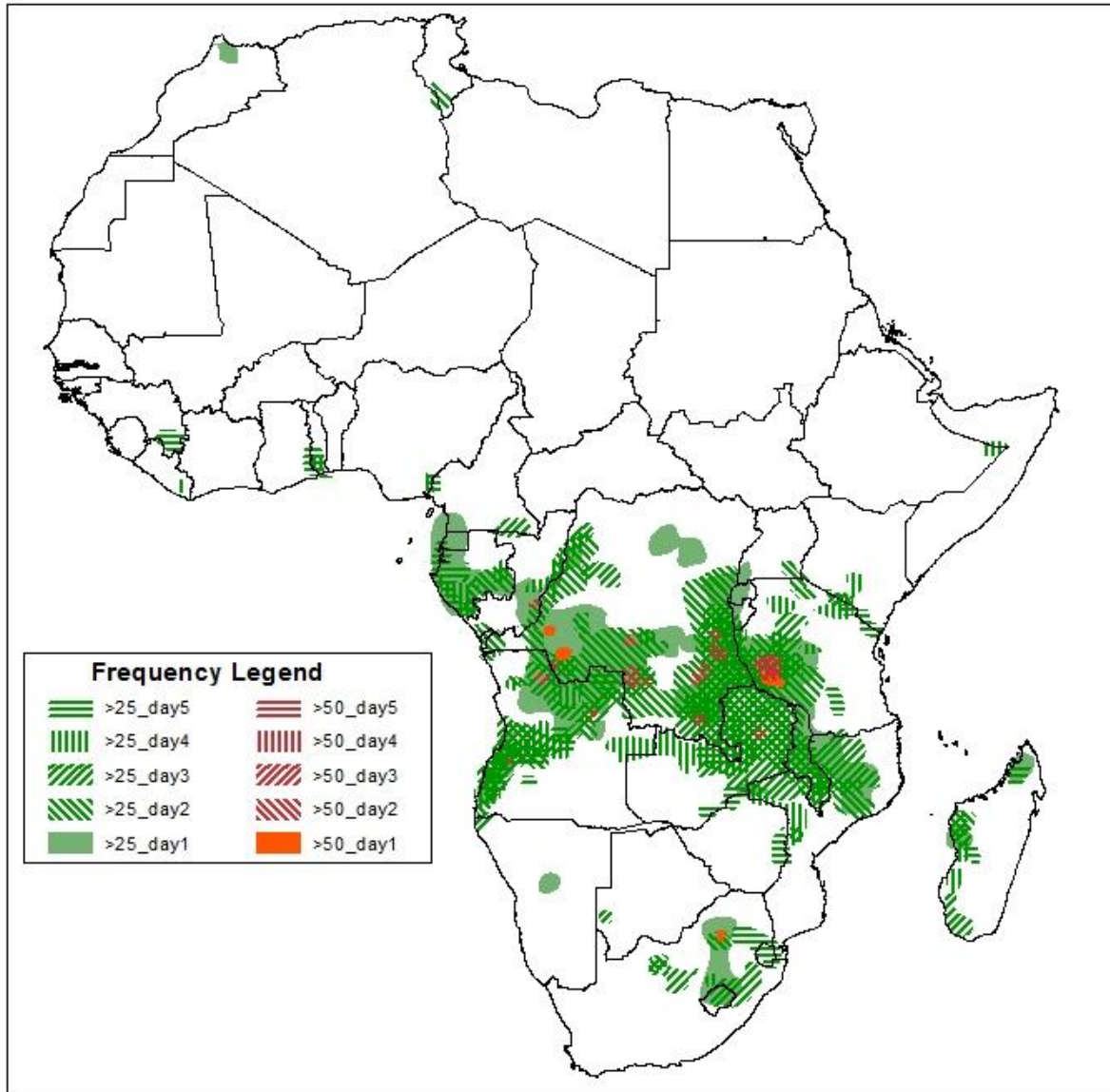
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Dec 05, 2016)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Dec 06– Dec 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 Dec 06 - Dec 10, 2016

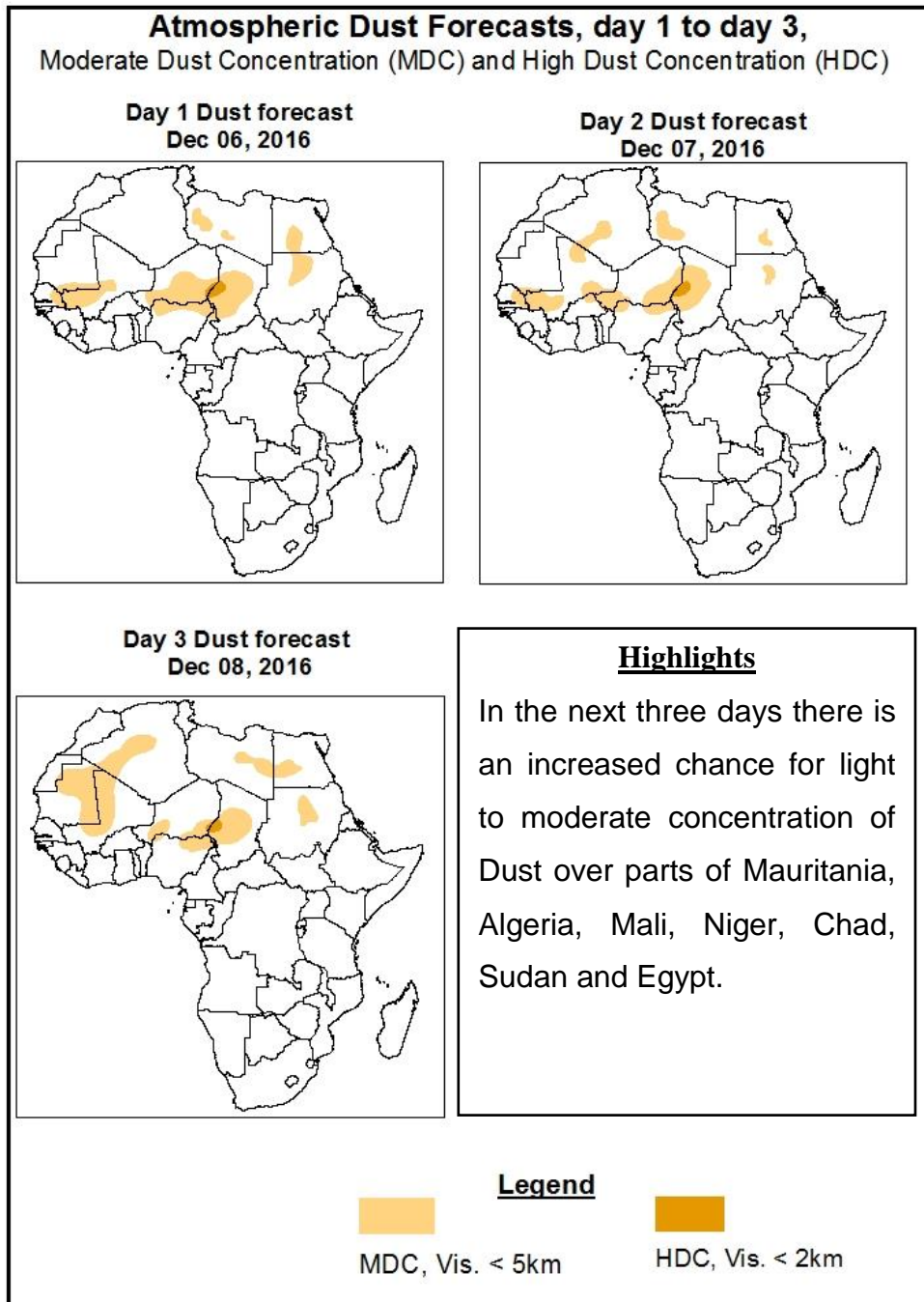


### **Highlights**

In the next five days, lower level wind convergences in Gabon, DRC, Angola, Zambia, Malawi and Tanzania 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 Malawi, local area of Gabon, Congo, DRC, Angola, Zambia, Mozambique, Lesotho, South Africa, Tanzania and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Dec 06– Dec 08, 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 06–Dec 10, 2016**

The Sub-Tropical High Pressure system over the Libya is expected to intensify, with its value of the central pressure increasing from 1036hPa to 1040hPa in the next 72 hours, weaken to 1030hPa during remaining forecast period.

The St. Helena High Pressure system over the Southeast of the Atlantic Ocean is expected to intensify, with its value of the central pressure increasing from 1016hPa to 1021hPa during forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to intensify, with its value of the central pressure increasing from 1022hPa to 1028hPa during the forecast period.

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

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

In the next five days, lower level wind convergences in Gabon, DRC, Angola, Zambia, Malawi and Tanzania 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 Malawi, local area of Gabon, Congo, DRC, Angola, Zambia, Mozambique, Lesotho, South Africa, Tanzania and Madagascar.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Dec 04, 2016)

Light to moderate rainfall was observed over portion of Morocco, Equatorial Guinea, Gabon, DRC, Angola, Zimbabwe, Mozambique, Tanzania, South Africa and Madagascar.

### 2.2. Weather assessment for the current day (Dec 05, 2016)

Intense convective clouds are observed over portions of Gabon, Congo, DRC, Angola, Zambia, Zimbabwe, South Africa, Lesotho, Mozambique, Tanzania and Madagascar.

