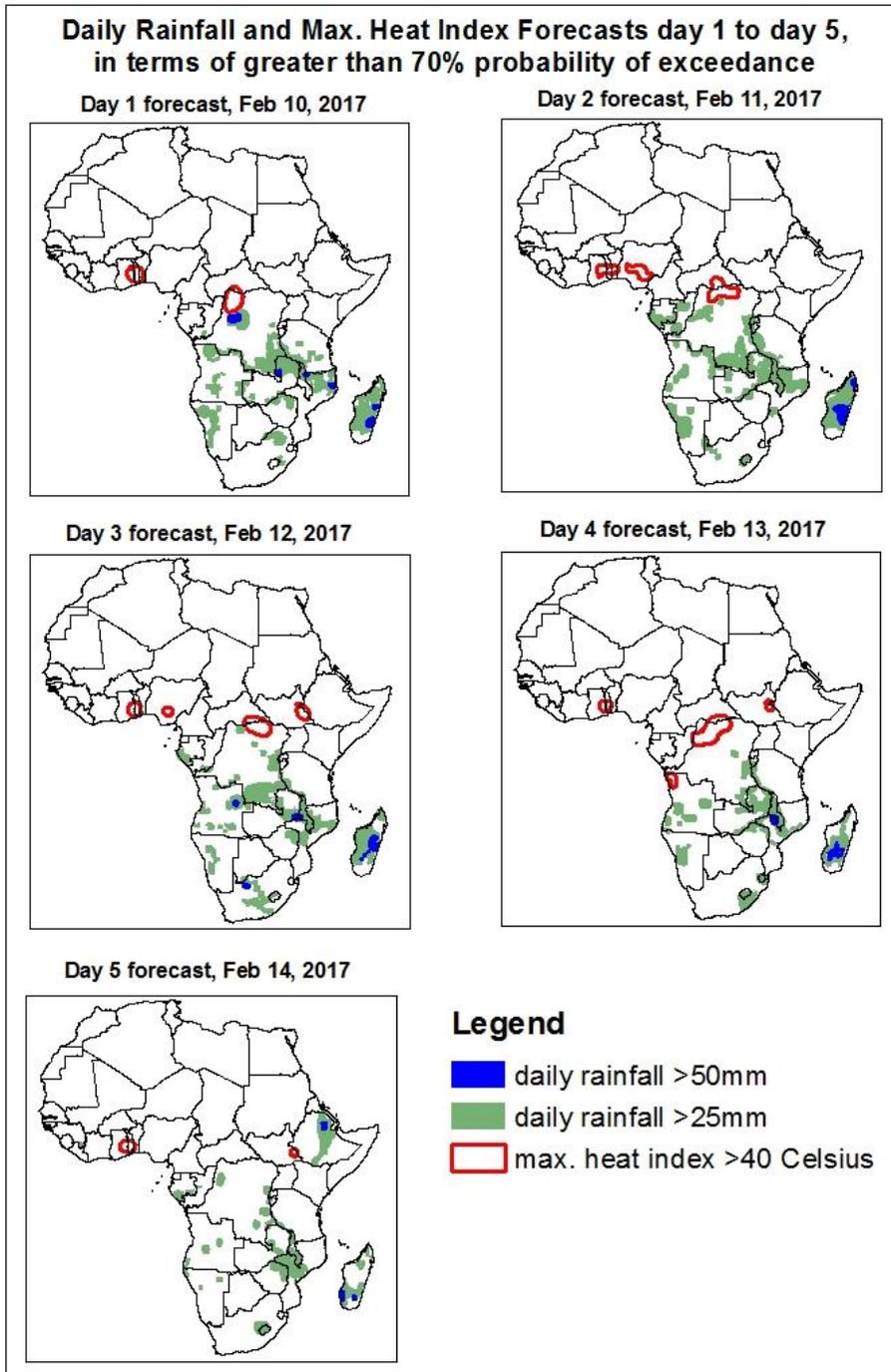


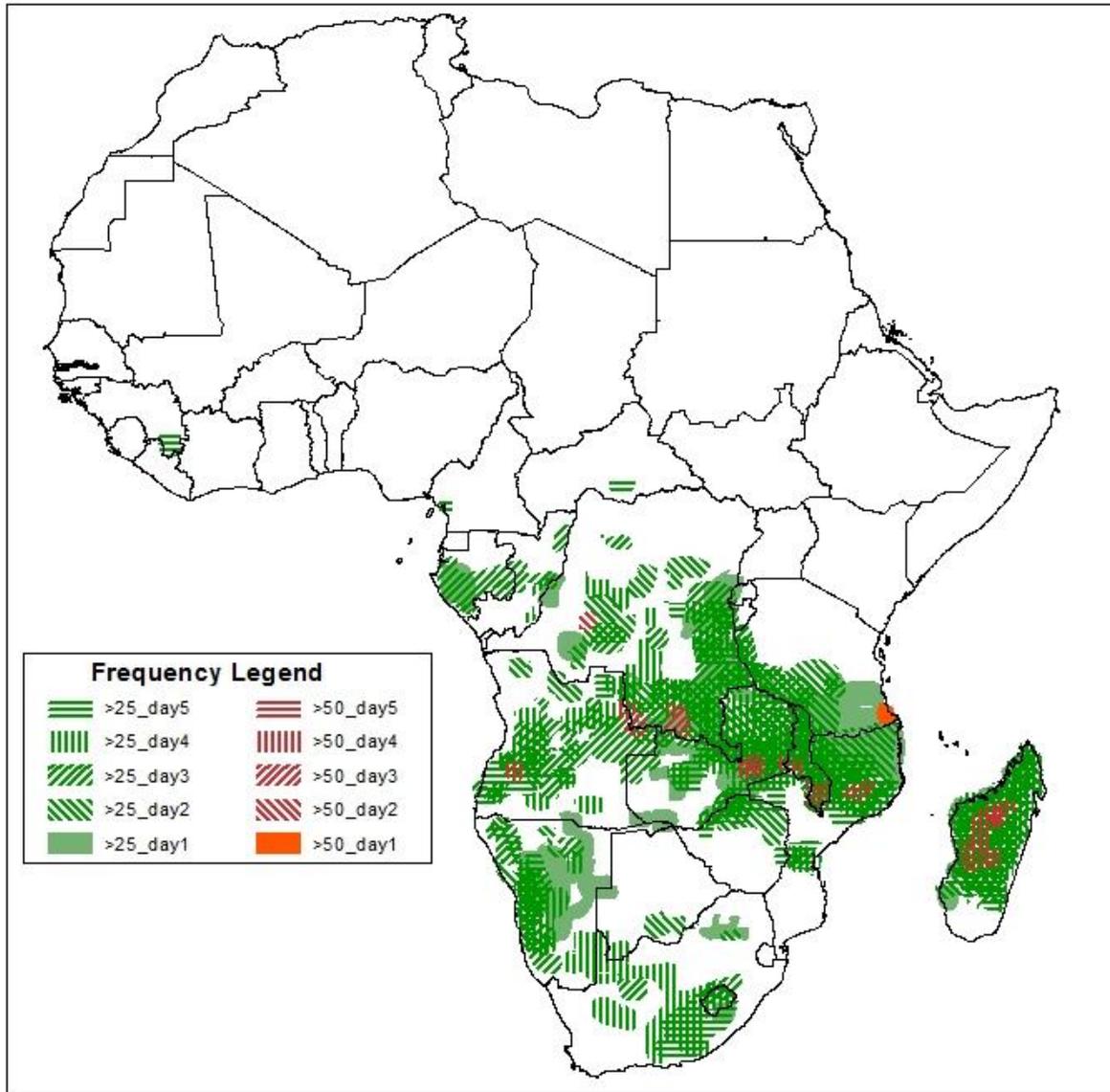
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Feb 09, 2017)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Feb 10– Feb 14, 2017)**

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 Feb 10 - Feb 14, 2017

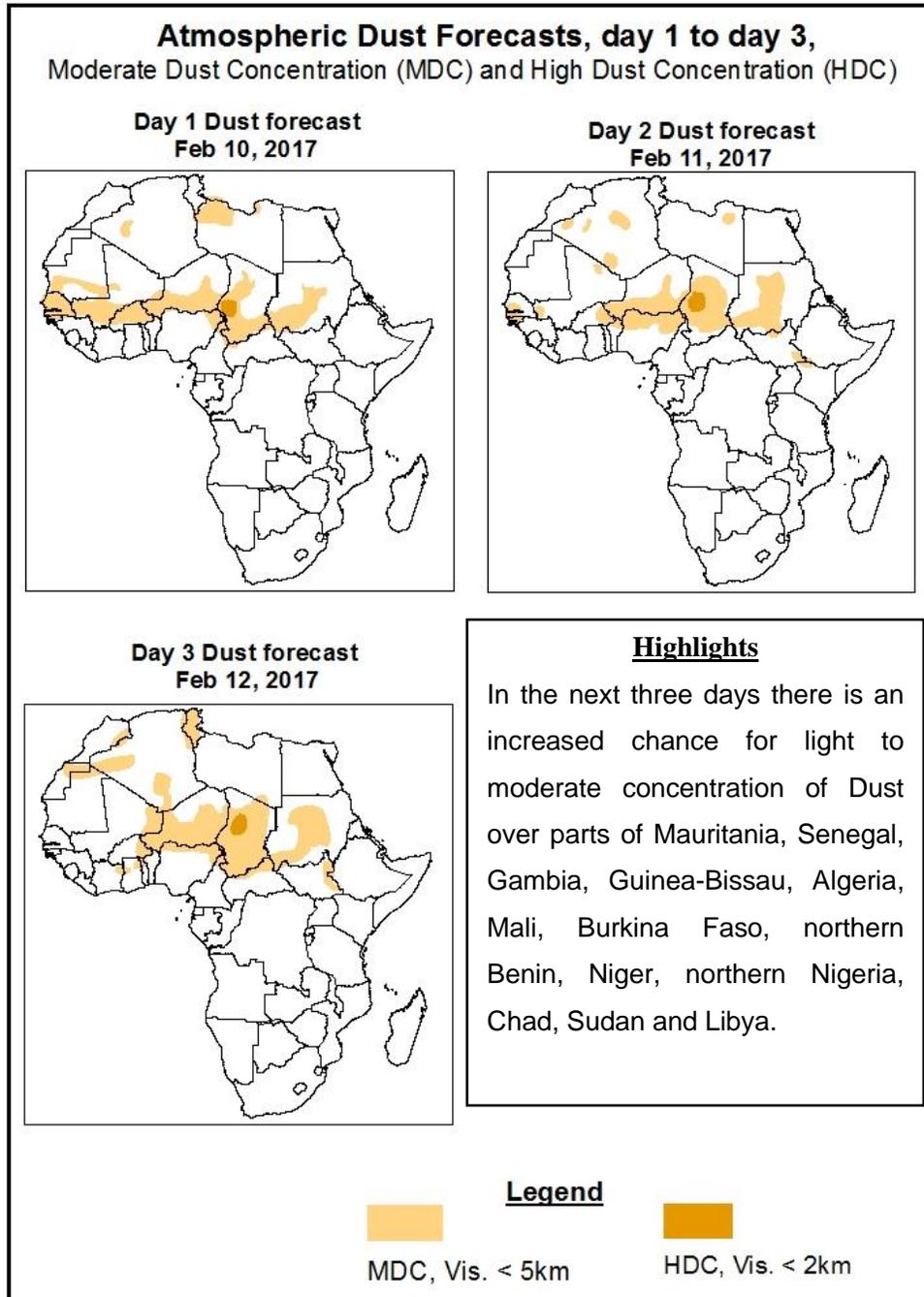


### **Highlights**

In the next five days, lower level wind convergences across the Central and South African countries 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 portions of Zambia, Malawi and Madagascar, local areas of Gabon, Cong, DRC, Tanzania, Angola, Mozambique, Namibia, Zimbabwe, South Africa and Lesotho.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Feb 10 – Feb 12, 2017)

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: Feb 10 – Feb 14, 2017***

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken with its value of the central pressure decreasing from 1034hPa to 1012hPa in the next 96 hours and intensify to 1022hPa during the 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 1032hPa to 1033hPa in the next 72 hours and weaken to 1026hPa during the remaining 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 1032hPa to 1036hPa in the next 48 hours, weaken to 1029hPa and the next 72 hours, and intensify to 1032hPa during the remaining forecast period.

At 925hPa, strong dry Northerly to Easterly winds may lead from light to moderate dust concentration over parts of Western Sahara, Mauritania, Senegal, Gambia, Guinea-Bissau, Algeria, Tunisia, Mali, Burkina Faso, northern Benin, Niger, northern Nigeria, Chad, Sudan and Libya.

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, CAR, DRC, Angola, Zambia, Namibia and South Africa.

In the next five days, lower level wind convergences across the Central and South African countries 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 portions of Zambia, Malawi and Madagascar, local areas of Gabon, Cong, DRC, Tanzania, Angola, Mozambique, Namibia, Zimbabwe, South Africa and Lesotho.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Feb 08, 2017)

Light to moderate rainfall was observed over portions of Algeria, DRC, Tanzania, Angola, Zambia, Mozambique, Namibia, Zimbabwe, South Africa, Swaziland and Madagascar.

### 2.2. Weather assessment for the current day (Feb 09, 2017)

Intense convective clouds are observed over portions of Liberia, Ghana, Togo, Benin, Gabon, Congo, CAR, DRC, Rwanda, Burundi, Tanzania, Angola, Zambia, Malawi, Mozambique, Namibia, Botswana, South Africa and Madagascar.

