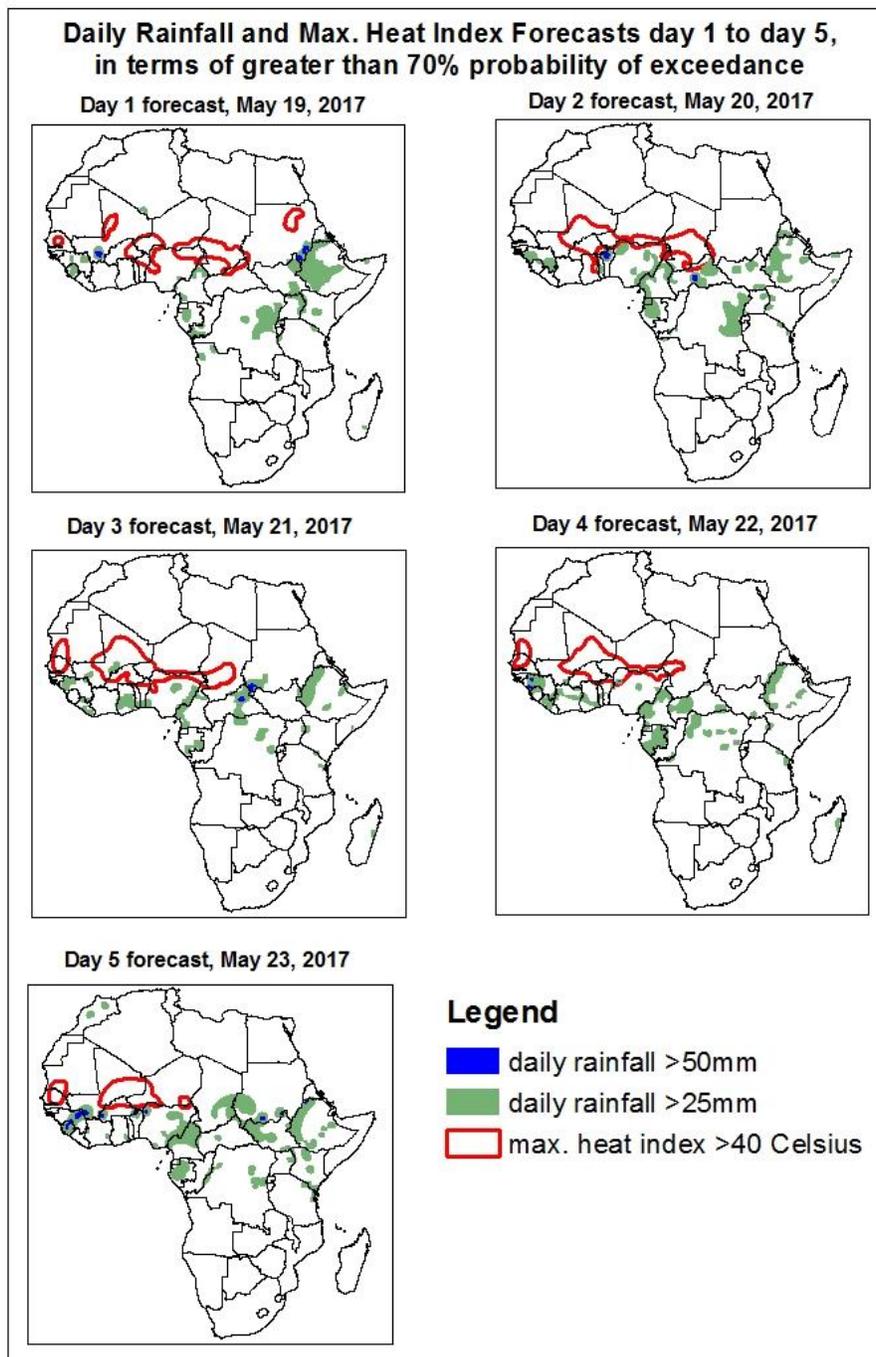


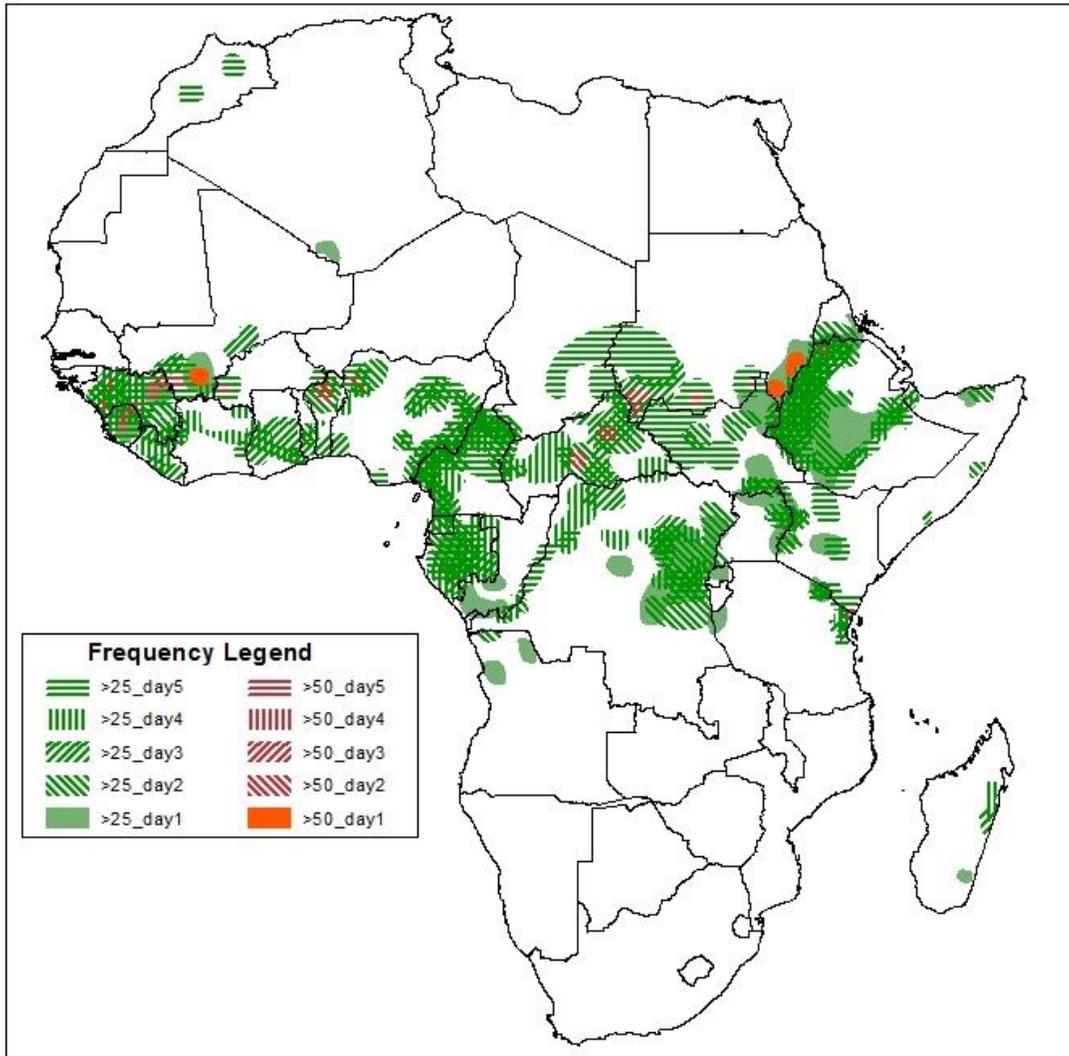
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 18, 2017)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: May 19 – 23, 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 May 19 - 23, 2017

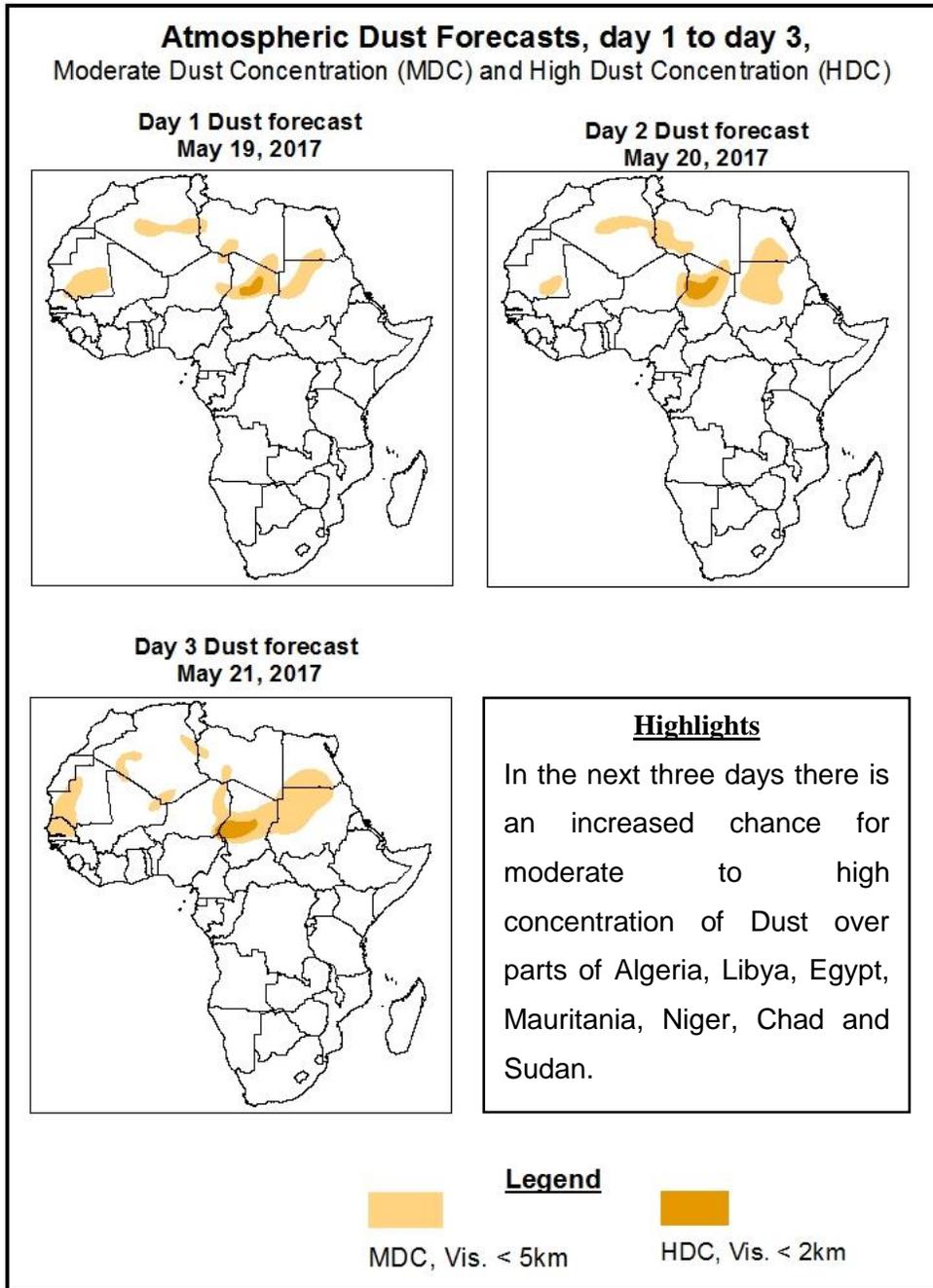


### **Highlights**

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 moderate to heavy rainfall over portions of Guinea, Sierra Leone, Liberia, Cameroon, Equatorial Guinea, Gabon, CAR, Ethiopia, and local areas of Mali, Burkina Faso, Chad, Sudan, Eritrea, Cote d'Ivoire, Ghana, Togo, Nigeria, Congo, DRC, South Sudan, Somalia, Uganda, Kenya, Tanzania and Madagascar.

**1.2. Atmospheric Dust Concentration Forecasts (valid: May 19 – 21, 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: May 19 – 23, 2017***

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken with its value of the central pressure decreasing from 1028hPa to 1022hPa during the 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 1038hPa to 1037hPa during the next 48 hours, intensify to 1038hPa during the next 72 hours and weaken to 1032hPa 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 1030hPa to 1025hPa during the forecast period.

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

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, CAR, DRC, South Sudan, Ethiopia, Uganda, Kenya, Mozambique, South Africa and Madagascar.

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 moderate to heavy rainfall over portions of Guinea, Sierra Leone, Liberia, Cameroon, Equatorial Guinea, Gabon, CAR, Ethiopia, and local areas of Mali, Burkina Faso, Chad, Sudan, Eritrea, Cote d'Ivoire, Ghana, Togo, Nigeria, Congo, DRC, South Sudan, Somalia, Uganda, Kenya, Tanzania and Madagascar.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (May 17, 2017)

Light to moderate rainfall was observed over portions of Mauritania, Mali, Chad, Ghana, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda and Kenya.

### 2.2. Weather assessment for the current day (May 18, 2017)

Intense convective clouds are observed over portions of Niger, Sudan, Eritrea, Cote d'Ivoire, Ghana, Togo, Benin, Nigeria, Cameroon, Gabon, Congo, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya and Angola.

