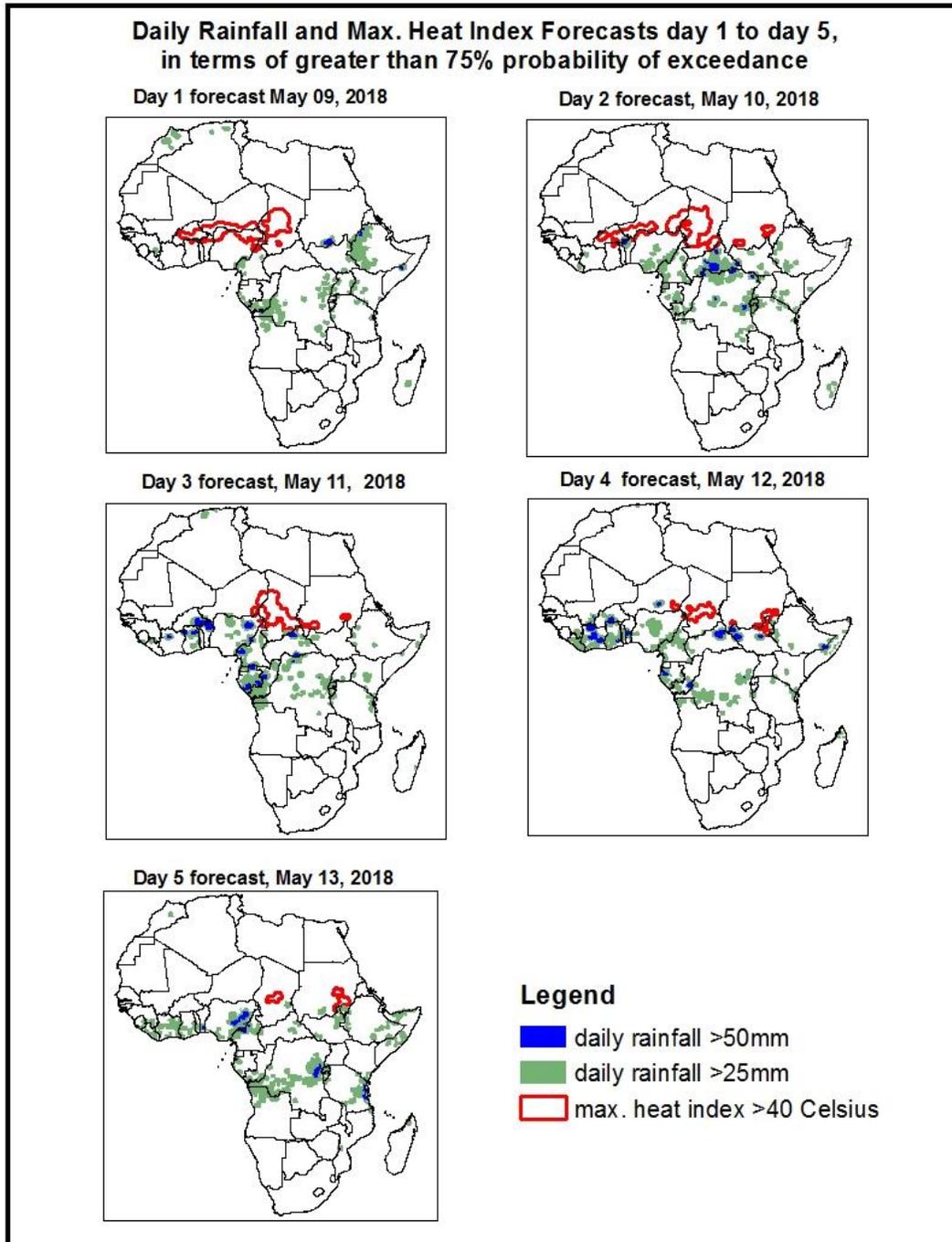


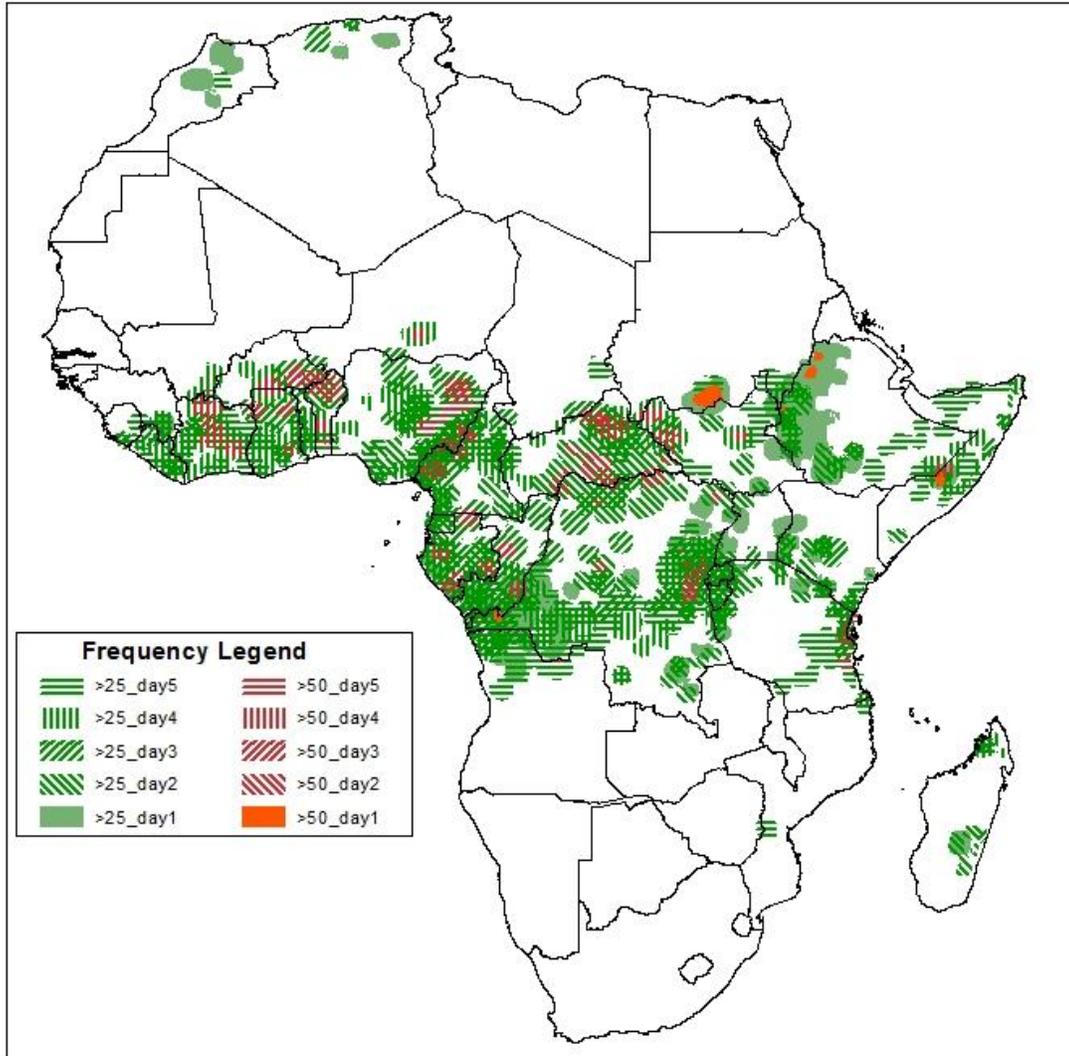
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 08, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: May 09, – May 13, 2018)**

The forecasts are expressed in terms of high probability of precipitation (POP) and high probability of maximum heat index, based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



## Five Days Rainfall Forecast Summary 09 May - 13 May, 2018.

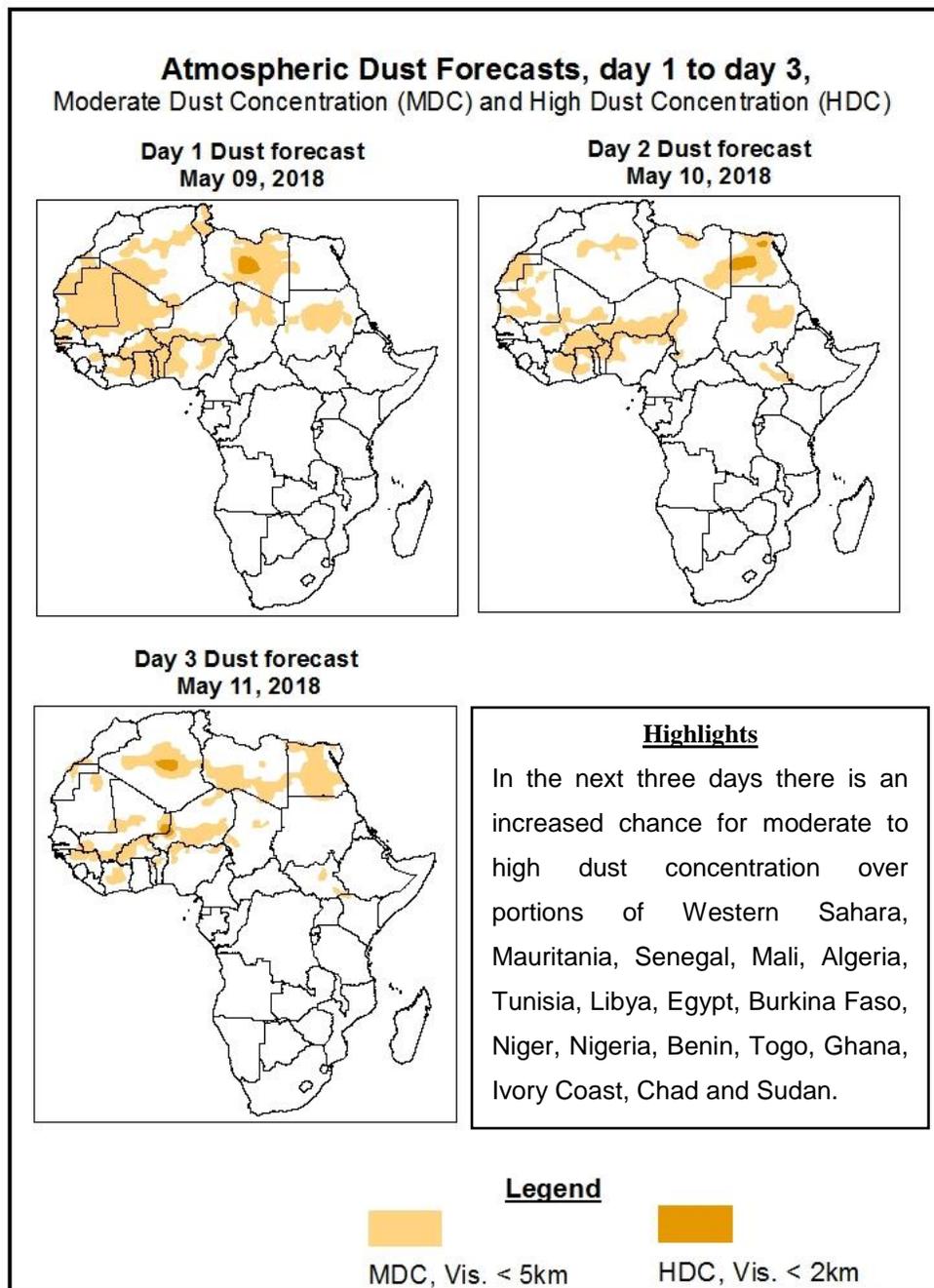


### **Highlights**

In the next five days, lower-level convergence across part of Gulf of Guinea countries, central Africa, eastern DRC and South Sudan and lower-level wind divergence over part of Guinea, Sierra Leone and southern Mali, are expected to enhance rainfall in the Central and the western part of Africa then a reduction of rainfall over Guinea, Sierra Leone and Mali. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Liberia, Ivory Coast, Burkina Faso, Ghana, Togo, Benin, Nigeria, Niger, Cameroon, Equatorial Guinea, Gabon, Congo, Angola, DRC, CAR, Burundi, Rwanda, Tanzania, Uganda, Kenya, Sudan, South Sudan, Ethiopia and Somalia.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: May 09 – May 11, 2018)

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 09 – May 13, 2018**

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify during the forecast period. The central pressure values ranges from about 1030 hPa to 1032 hPa during the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to weaken during the forecast period. The central pressure values ranges from about 1027 hPa to 1022 hPa during the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken during the forecast period. The central pressure values ranges from about 1025 hPa to 1020 hPa during the forecast period.

At 925hPa, dry strong northeasterly to easterly wind is expected to prevail across northern Africa and portions of the Sahel region.

At 850hPa, in West Africa, it is expected the oscillation of the Inter Tropical Convergence Zone in the extreme northern part of the Gulf of Guinea countries and a low monsoon entrance while the area of wind convergence remain active in South Sudan during the forecast period. A northeastern flow with its associated lower-level divergence is expected to prevail across the southern portions of the Mozambique Channel and southern Madagascar.

In the next five days, lower-level convergence across part of Gulf of Guinea countries, central Africa, eastern DRC and South Sudan and lower-level wind divergence over part of Guinea, Sierra Leone and southern Mali, are expected to enhance rainfall in the Central and the western part of Africa then a reduction of rainfall over Guinea, Sierra Leone and Mali. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Liberia, Ivory Coast, Burkina Faso, Ghana, Togo, Benin, Nigeria, Niger, Cameroon, Equatorial Guinea, Gabon, Congo, Angola, DRC, CAR, Burundi, Rwanda, Tanzania, Uganda, Kenya, Sudan, South Sudan, Ethiopia and Somalia.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (May 07, 2018)

Moderate to locally heavy rainfall was observed over parts of Morocco, Algeria, Tunisia, Ghana, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, Angola, Chad, CAR, DRC, Zambia, Sudan, South Sudan, Uganda, Tanzania, Kenya and Ethiopia.

### 2.2. Weather assessment for the current day (May 08, 2018)

Intense convective clouds are observed over across most parts of Gulf of Guinea countries and South Sudan.

