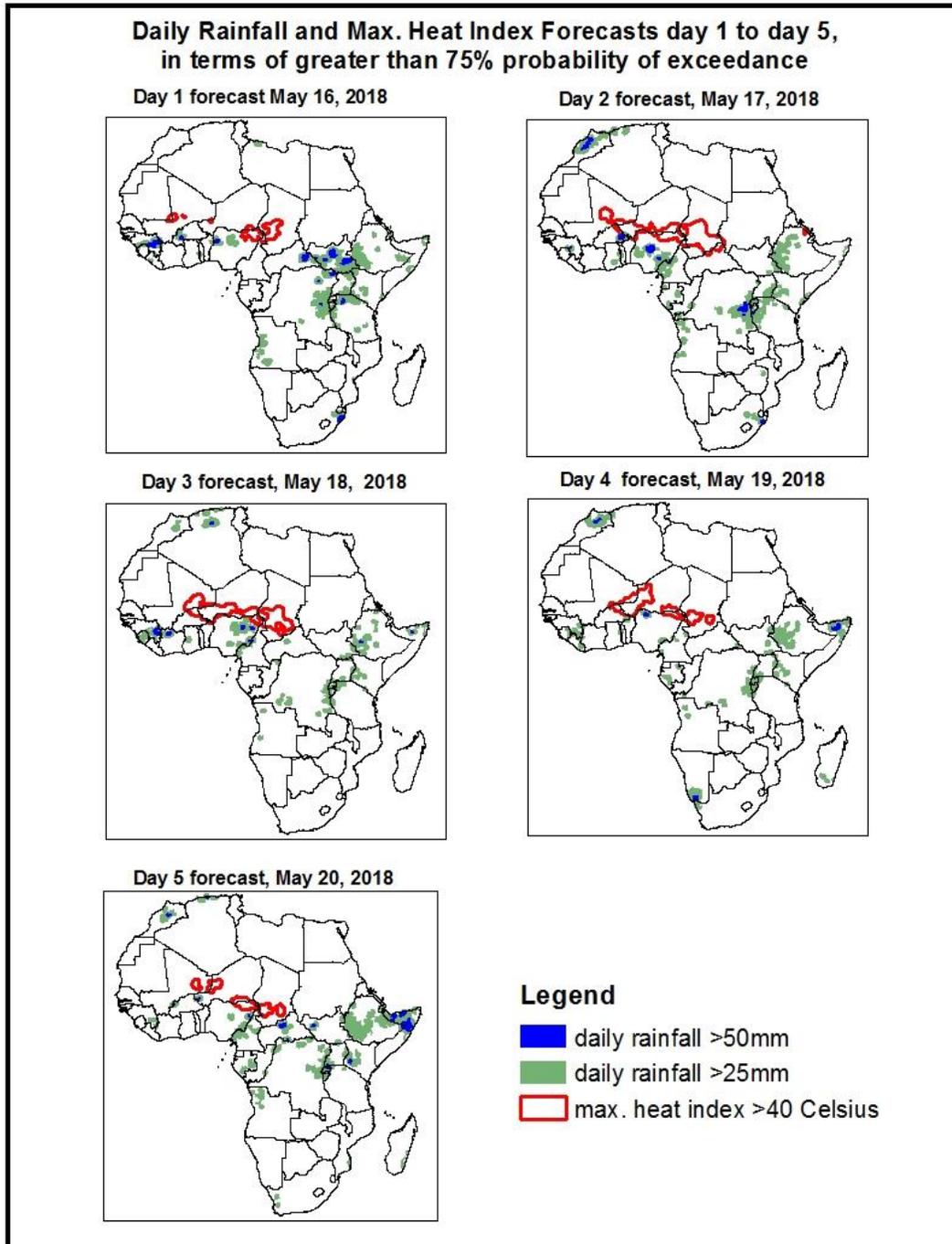


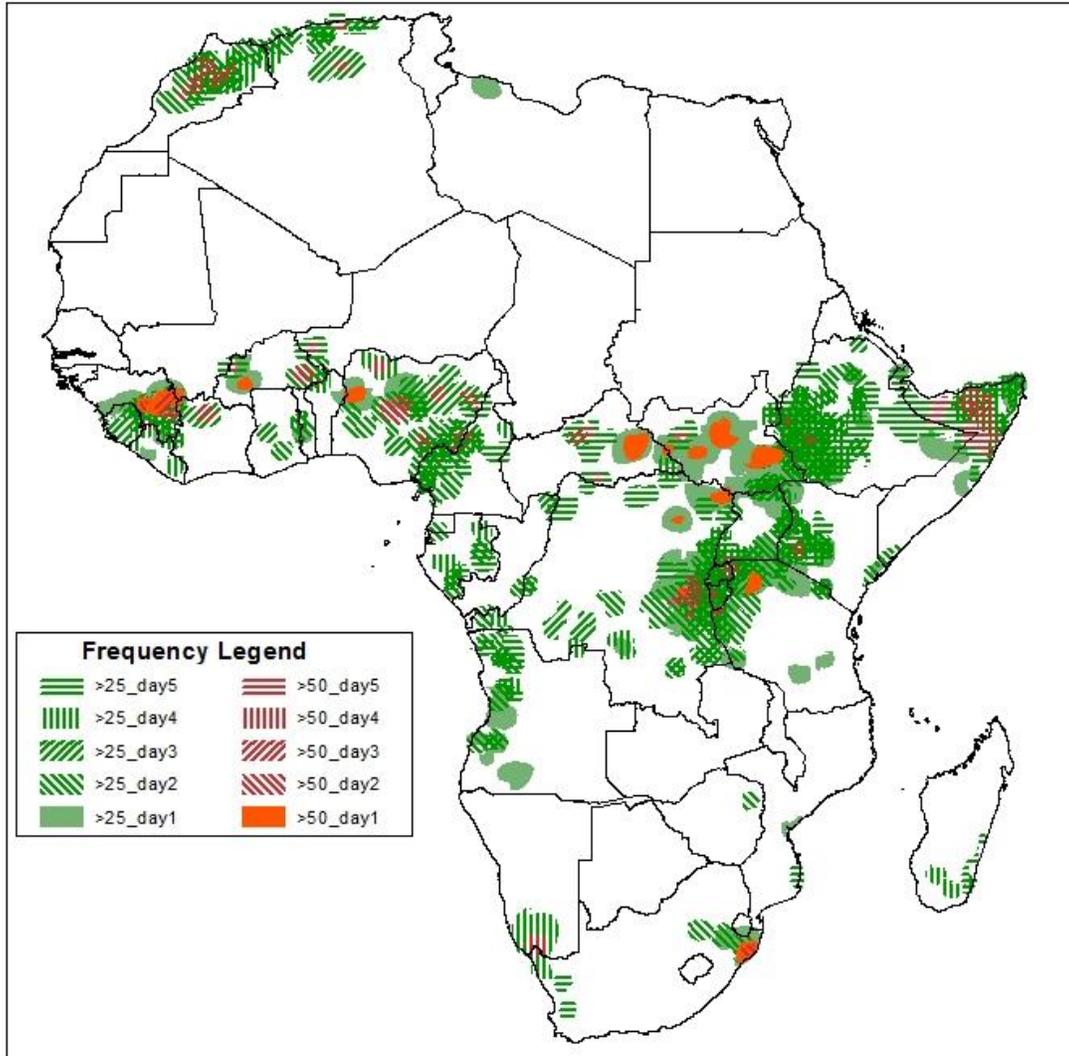
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 15, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: May 16, – May 20, 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 16 May - 20 May, 2018.

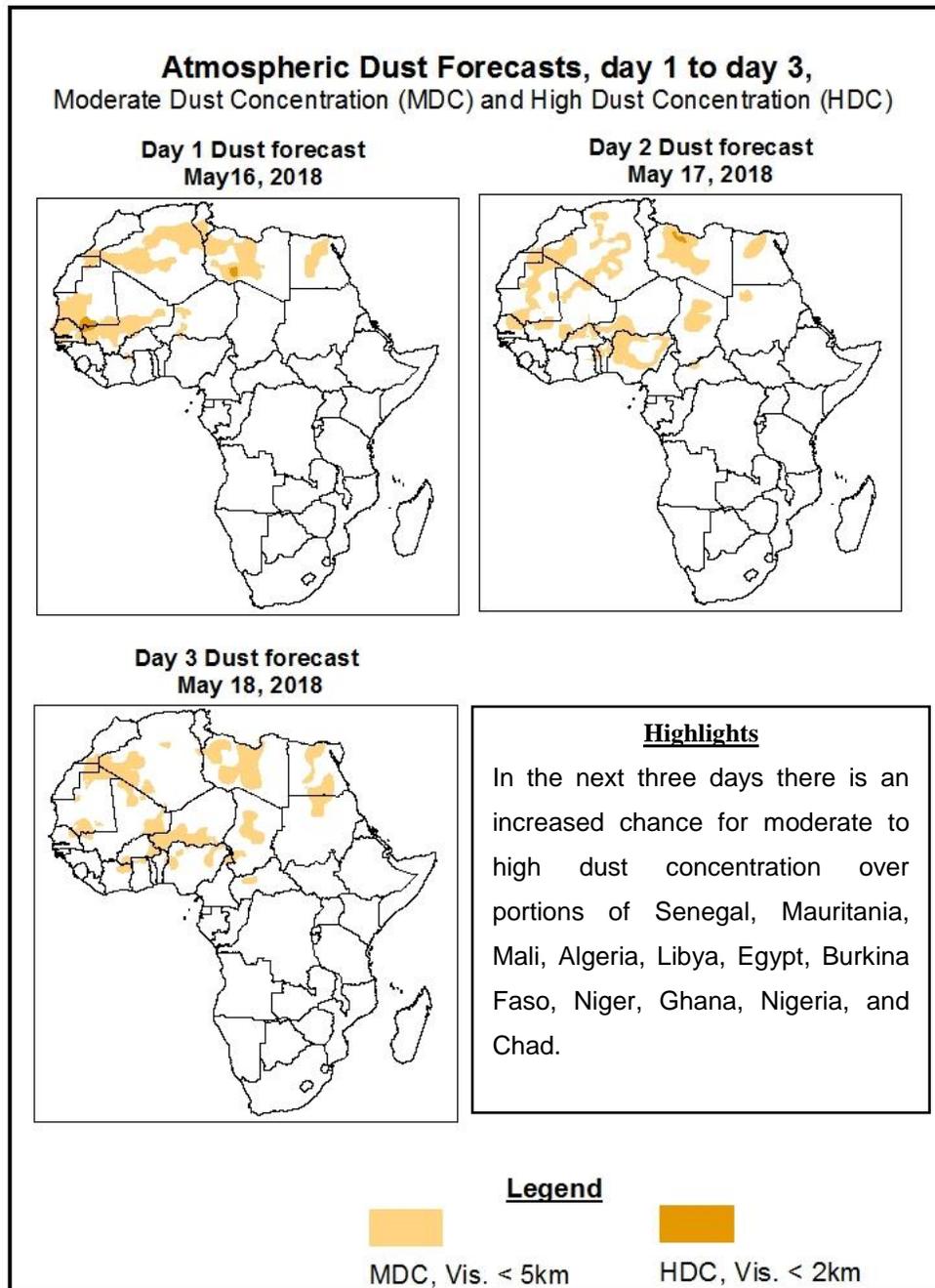


### **Highlights**

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

## 1.2. Atmospheric Dust Concentration Forecasts (valid: May 16 – May 18, 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 16– May 20, 2018**

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken during the forecast period. The central pressure values ranges from about 1029 hPa to 1026 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 1025 hPa to 1023 hPa during the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to intensify during the forecast period. The central pressure values ranges from about 1026 hPa to 1031 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 above the Gulf of Guinea countries and a enhance monsoon entrance while the area of wind convergence remain active in the eastern part of South Sudan during the forecast period. A southeastern 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 and eastern Africa and lower-level wind divergence over part of the central Africa are expected to enhance rainfall in the western and eastern part of Africa then a reduction of rainfall over the Central Africa. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Morocco, Algeria, Guinea, Sierra Leone, Liberia, Ivory Coast, Burkina Faso, Nigeria, Cameroon, Equatorial Guinea, Gabon, Angola, DRC, CAR, South Sudan, Uganda, Rwanda, Burundi, Tanzania, Kenya, Ethiopia, Somalia, Namibia and South Africa.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (May 14, 2018)

Moderate to locally heavy rainfall was observed over parts of Libya, Togo, Benin, Nigeria, Cameroon, Gabon, Congo, Chad, South Sudan, CAR, DRC, Uganda, Kenya, Tanzania, Ethiopia, Somalia, Mozambique, South Africa and Madagascar.

### 2.2. Weather assessment for the current day (May 15, 2018)

Intense convective clouds are observed over across most parts of the central-eastern and the horn of Africa.

