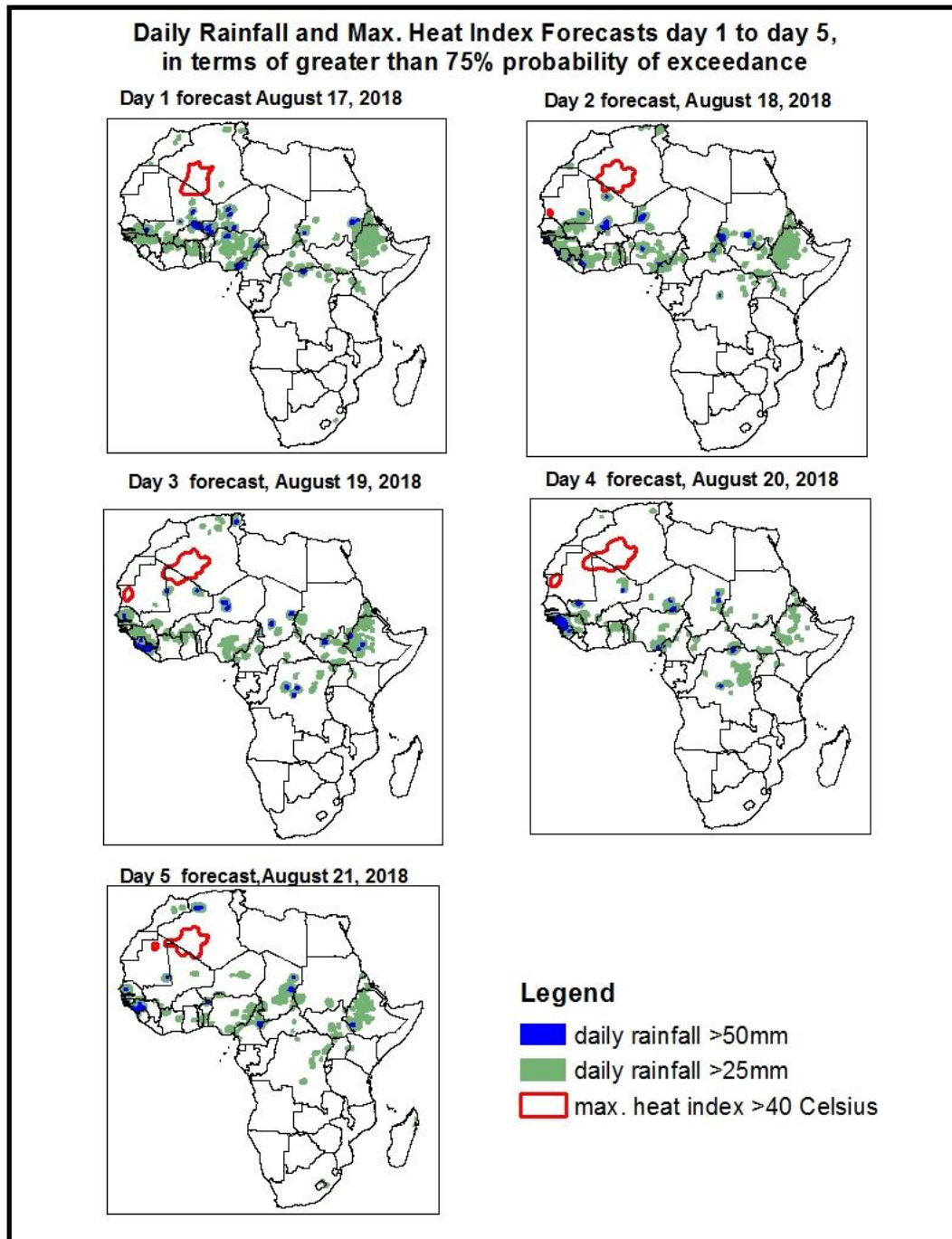


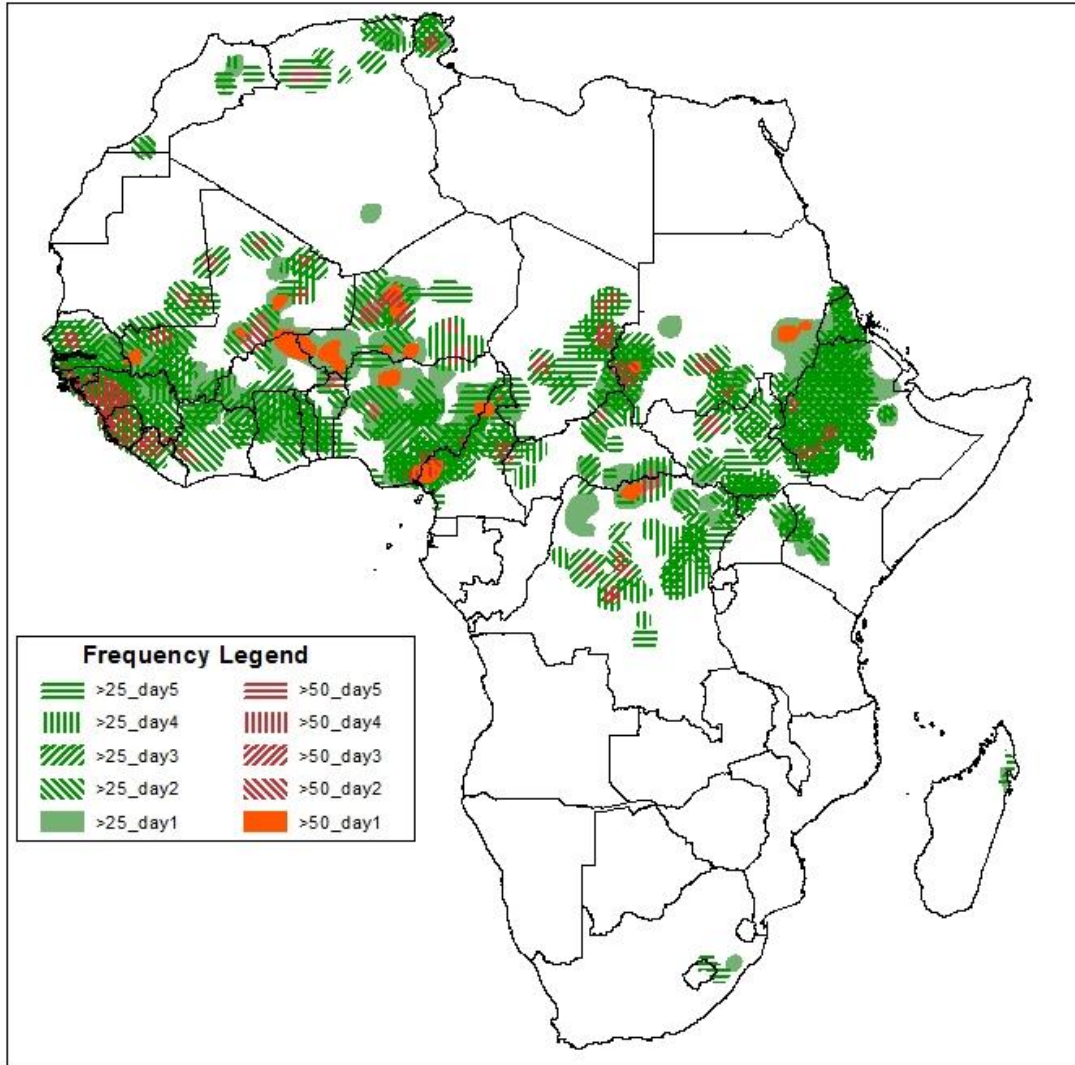
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on August 17, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: August 18, – August 22, 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 18 August - 22 August, 2018.

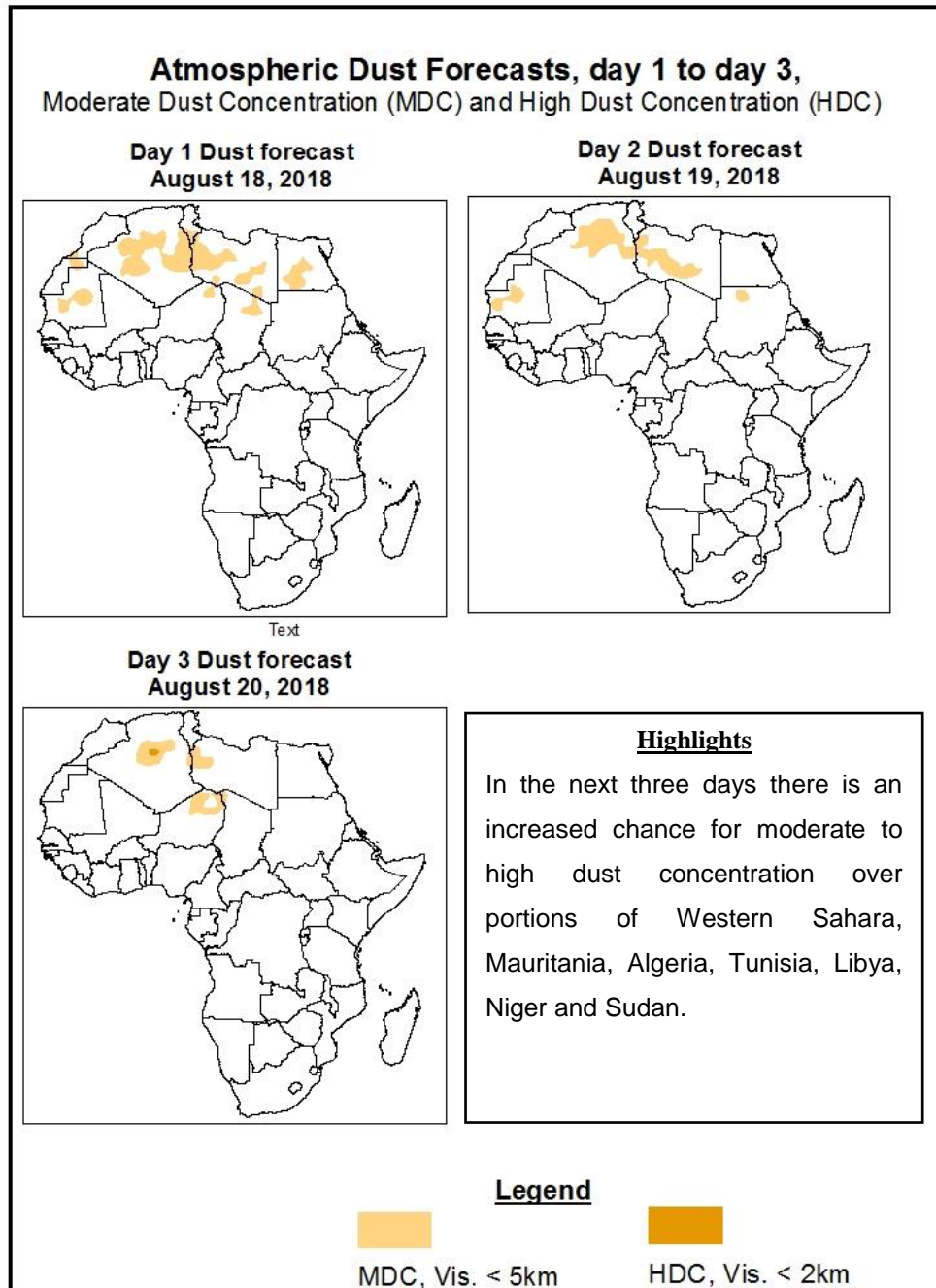


### **Highlights**

In the next five days, areas of anomalous lower-level convergence and upper level divergence over parts of East Africa, Central Africa and Gulf of Guinea Countries are expected to enhance rainfall, while areas of anomalous lower-level divergence and upper-level convergence is expected to suppress rainfall during the forecast period. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Morocco, Algeria, Tunisia, Mauritania, Mali, Senegal, Gambia, Guinea Bissau, Guinea Sierra Leone, Liberia, Cote d'Ivoire, Burkina Faso, Ghana, Togo, Benin, Niger, Nigeria, Cameroon, Chad, CAR, DRC, Uganda, Kenya, Sudan, South Sudan, Eritrea and Ethiopia.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: August 18 – August 20, 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: August 18 – August 22, 2018**

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken during the forecast period. The central pressure value decreased from 1026hPa to 1022hPa in the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to intensify in the forecast period. The central pressure values increased from 1031hPa to 1036hPa in the forecast period.

.The Mascarene High Pressure system over the Southwest Indian Ocean is expected to intensify in the first three days and then weaken during the forecast period. The central pressure value increased from 1033hPa to 1037hPa and decreased to 1035hPa in 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 that the Inter Tropical Convergence Zone will oscillate above the Gulf of Guinea countries while the area of wind convergence remain active over Mauritania, Senegal, Mali, Niger, Sudan and Uganda.

In the next five days, areas of anomalous lower-level convergence and upper level divergence over parts of East Africa, Central Africa and Gulf of Guinea Countries are expected to enhance rainfall, while areas of anomalous lower-level divergence and upper-level convergence is expected to suppress rainfall during the forecast period. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Morocco, Algeria, Tunisia, Mauritania, Mali, Senegal, Gambia, Guinea Bissau, Guinea Sierra Leone, and Liberia Cote d'Ivoire, Burkina Faso, Ghana, Togo, Benin, Niger, Nigeria, Cameroon, Chad, CAR, DRC, Uganda, Kenya, Sudan, South Sudan, Eritrea and Ethiopia.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (August 16, 2018)

Moderate to locally heavy rainfall was observed over parts of Mauritania, Senegal, Guinea, Niger, Nigeria, Cameroon, Chad, CAR, DRC, Sudan, South Sudan, Eritrea and Ethiopia.

### 2.2. Weather assessment for the current day (August 17, 2018)

Intense convective clouds are observed over parts of Algeria, Mauritania, Senegal, Gambia, Guinea, Mali, Burkina Faso, Niger, Nigeria, Cameroon, Chad, CAR, DRC, Sudan and South Sudan.

