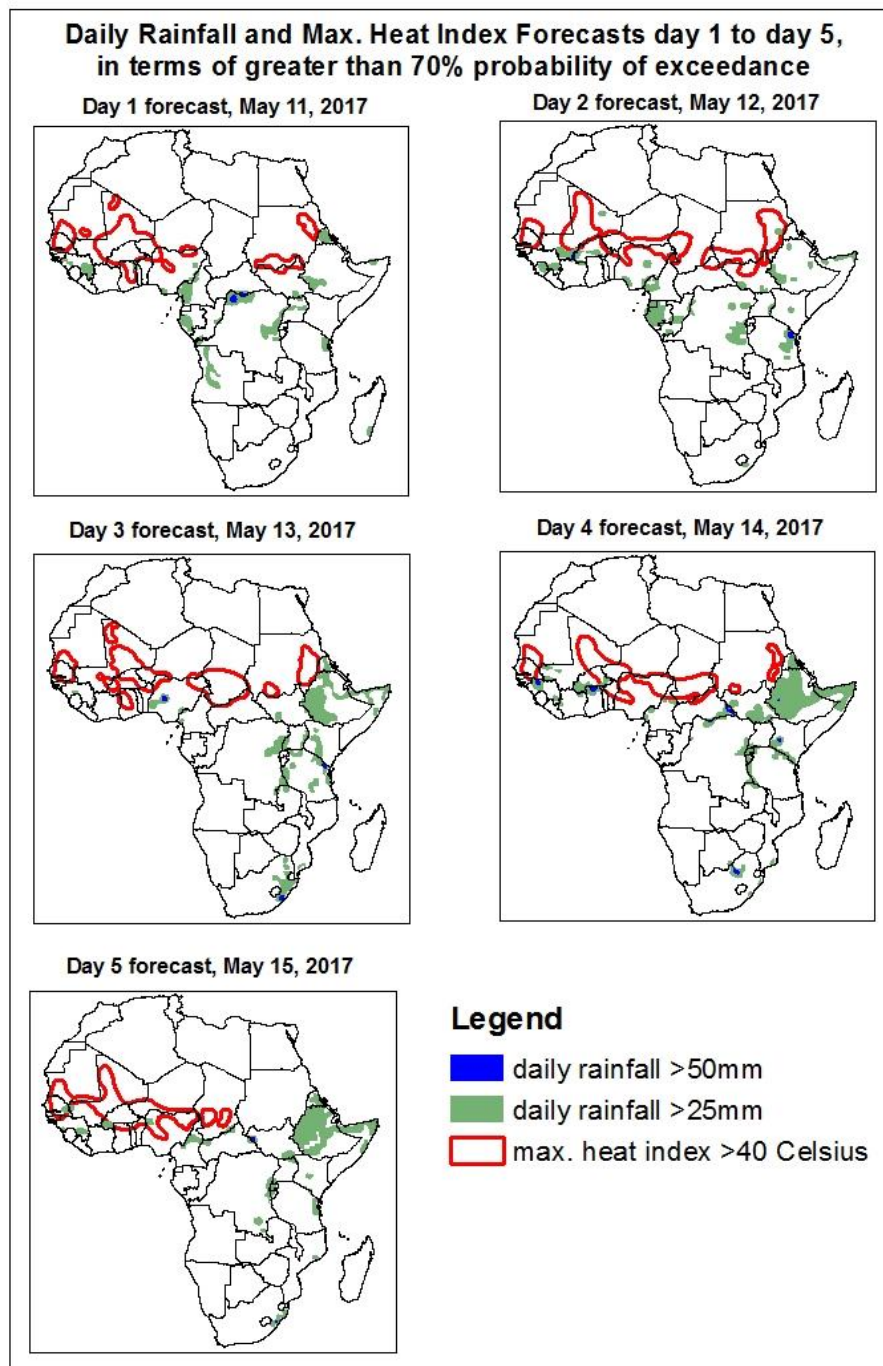


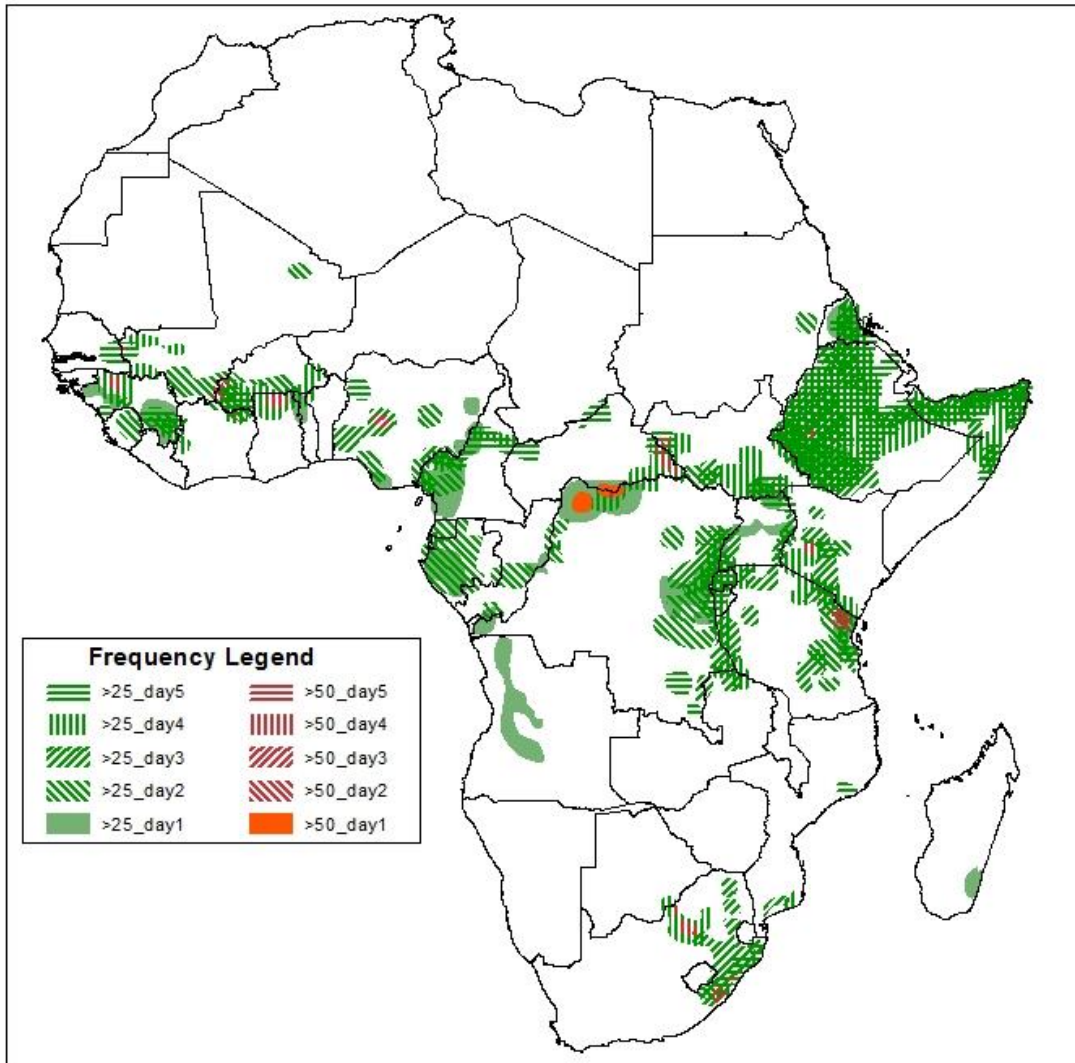
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 10, 2017)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: May 11 – 15, 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 11 - 15, 2017

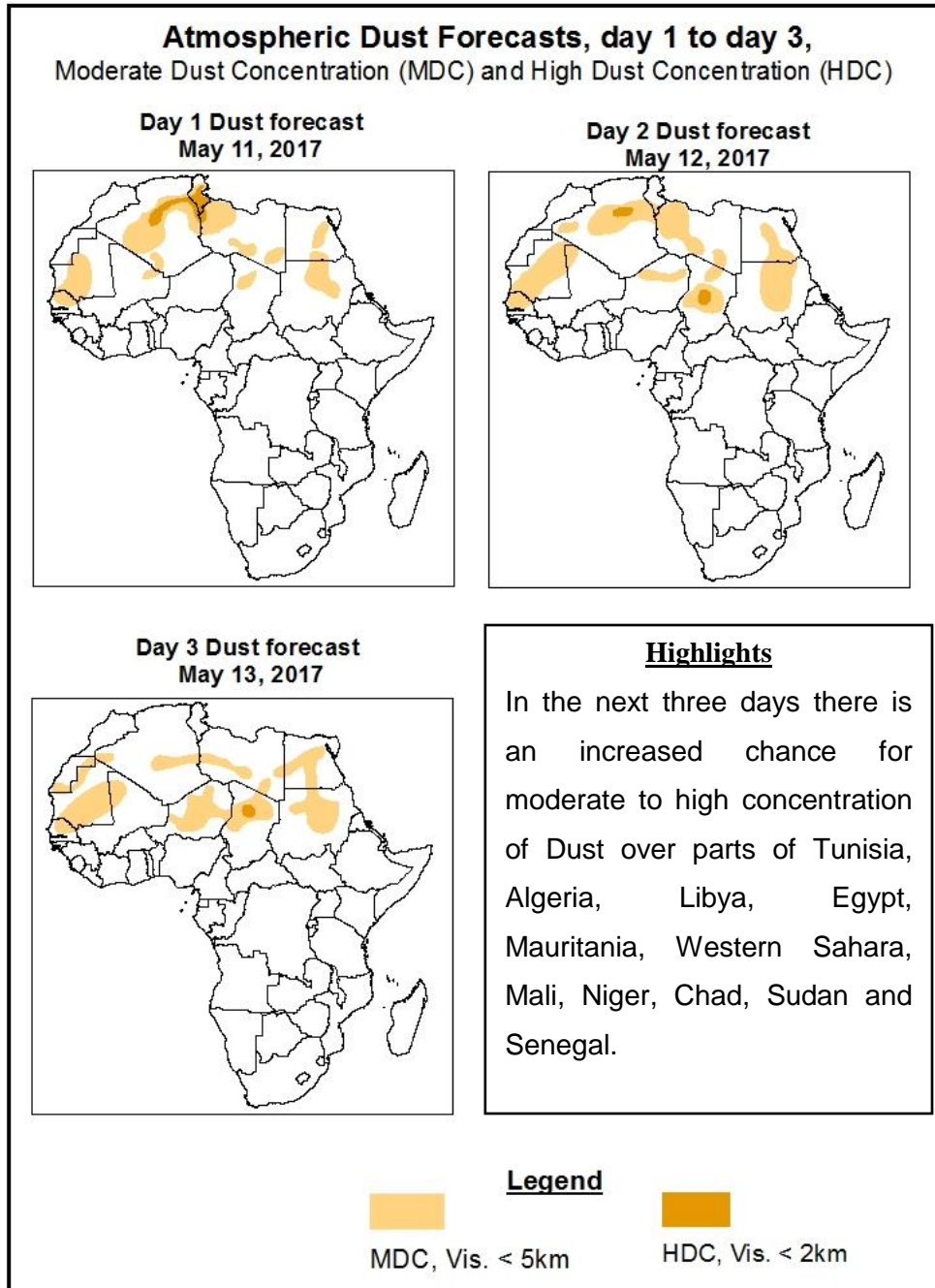


### **Highlights**

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 Eritrea, Guinea, Equatorial Guinea, Gabon, Ethiopia, Burundi, Rwanda and local areas of Mali, Cote d'Ivoire, Ghana, Togo, Nigeria, Cameroon, Congo, CAR, DRC, South Sudan, Somalia, Uganda, Kenya, Tanzania, Zambia and South Africa.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: May 11 – 13, 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 11 – 15, 2017**

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify with its value of the central pressure increasing from 1020hPa to 1029hPa during the 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 1030hPa to 1037hPa during the next 48 hours and weaken to 1012hPa 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 1036hPa to 1038hPa during the next 72 hours and weaken to 1032hPa during the remaining forecast period.

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

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, Congo, CAR, DRC, South Sudan, Ethiopia, Uganda, Kenya, Namibia, Mozambique, South Africa 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 moderate to heavy rainfall over portions of Eritrea, Guinea, Equatorial Guinea, Gabon, Ethiopia, Burundi, Rwanda and local areas of Mali, Cote d'Ivoire, Ghana, Togo, Nigeria, Cameroon, Congo, CAR, DRC, South Sudan, Somalia, Uganda, Kenya, Tanzania, Zambia and South Africa.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (May 09, 2017)

Light to moderate rainfall was observed over portions of Mali, Chad, Burkina Faso, Liberia, Cote d'Ivoire, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, Ethiopia, Kenya, Tanzania and Madagascar.

### 2.2. Weather assessment for the current day (May 10, 2017)

Intense convective clouds are observed over portions of Sudan, Eritrea, Chad, Guinea, Sierra Leone, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Angola, Namibia, South Africa and Madagascar.

