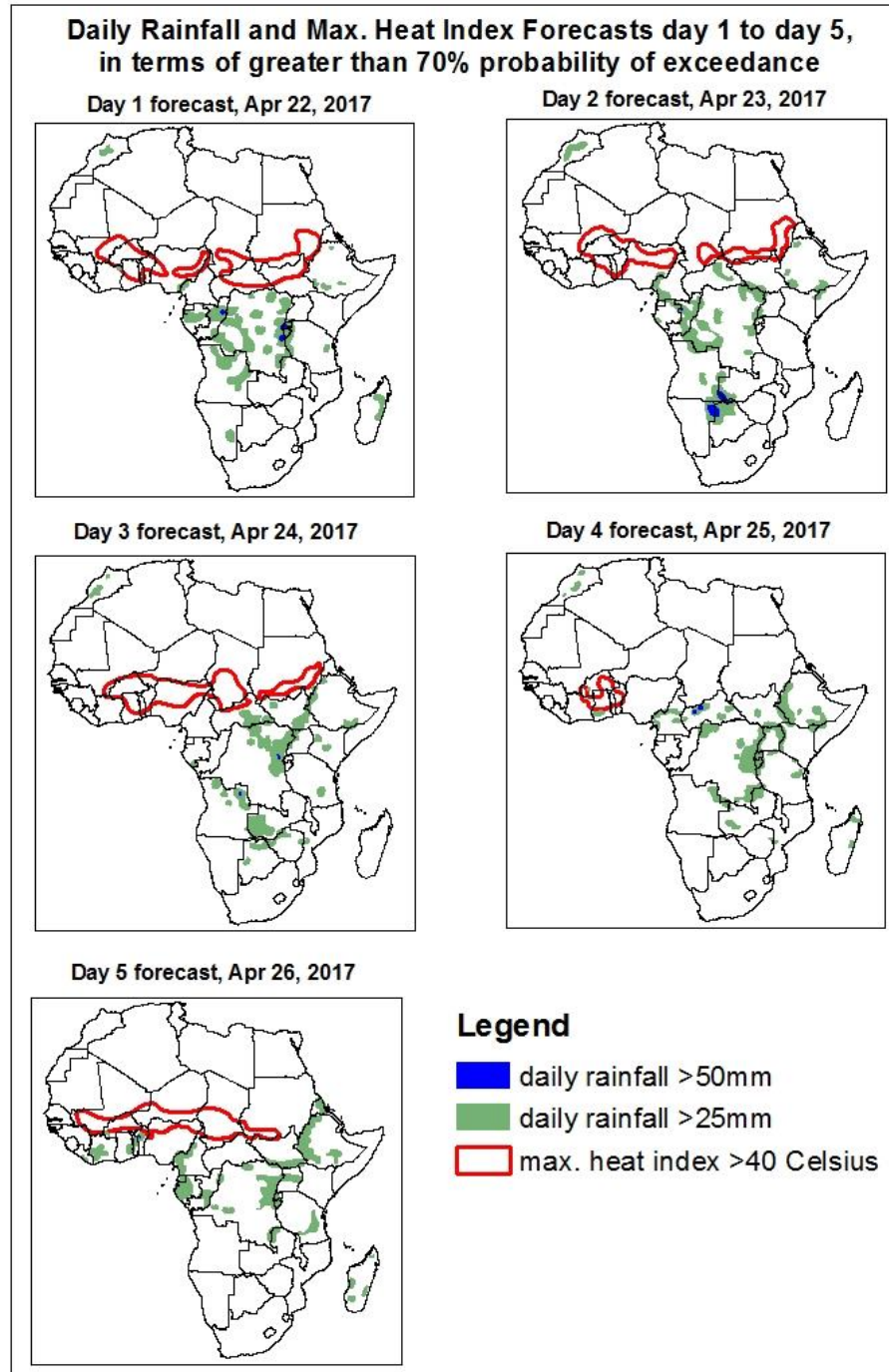


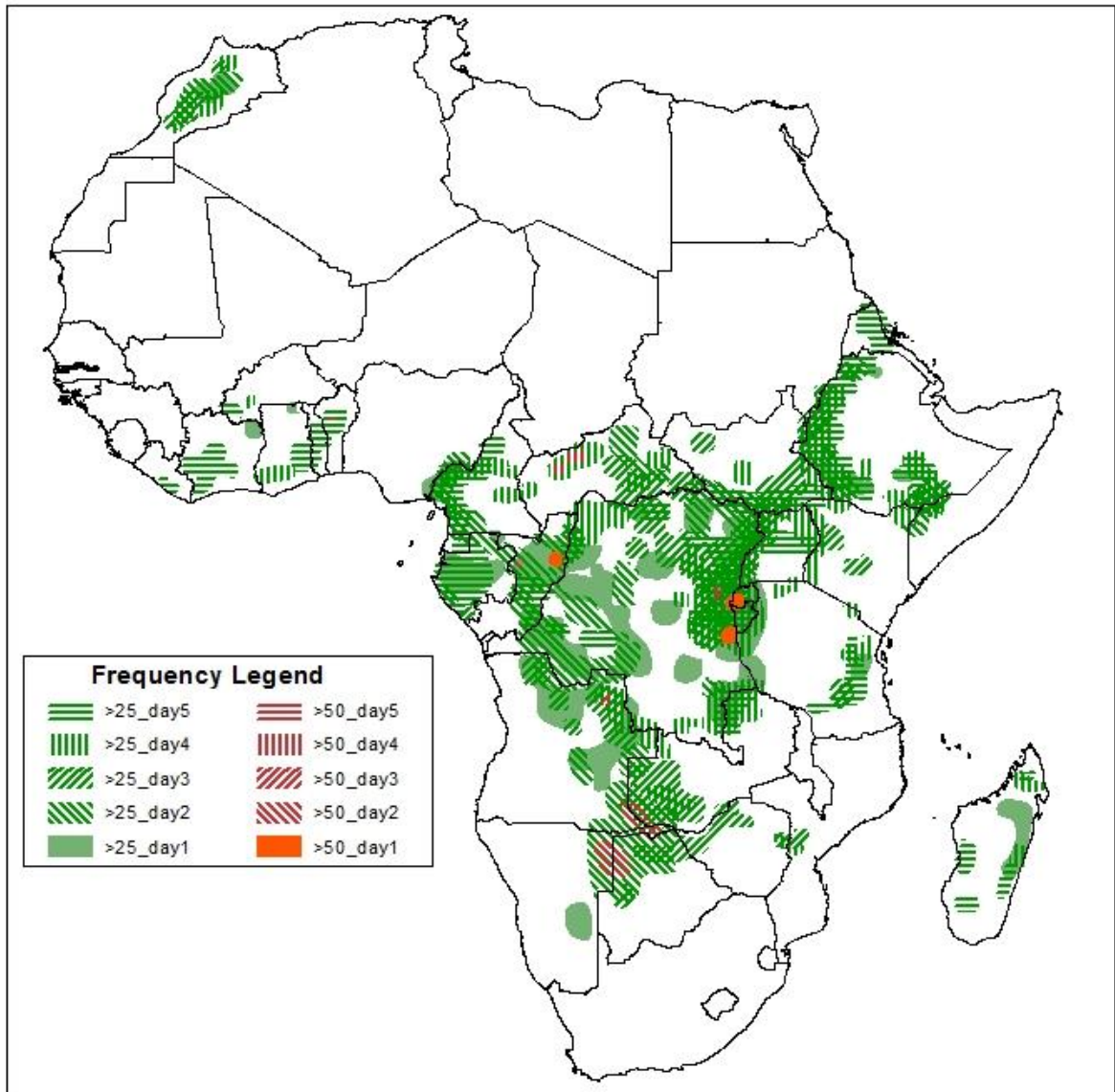
## 1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Apr 21, 2017)

### 1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Apr 22 – 26, 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 Apr 22 - 26, 2017

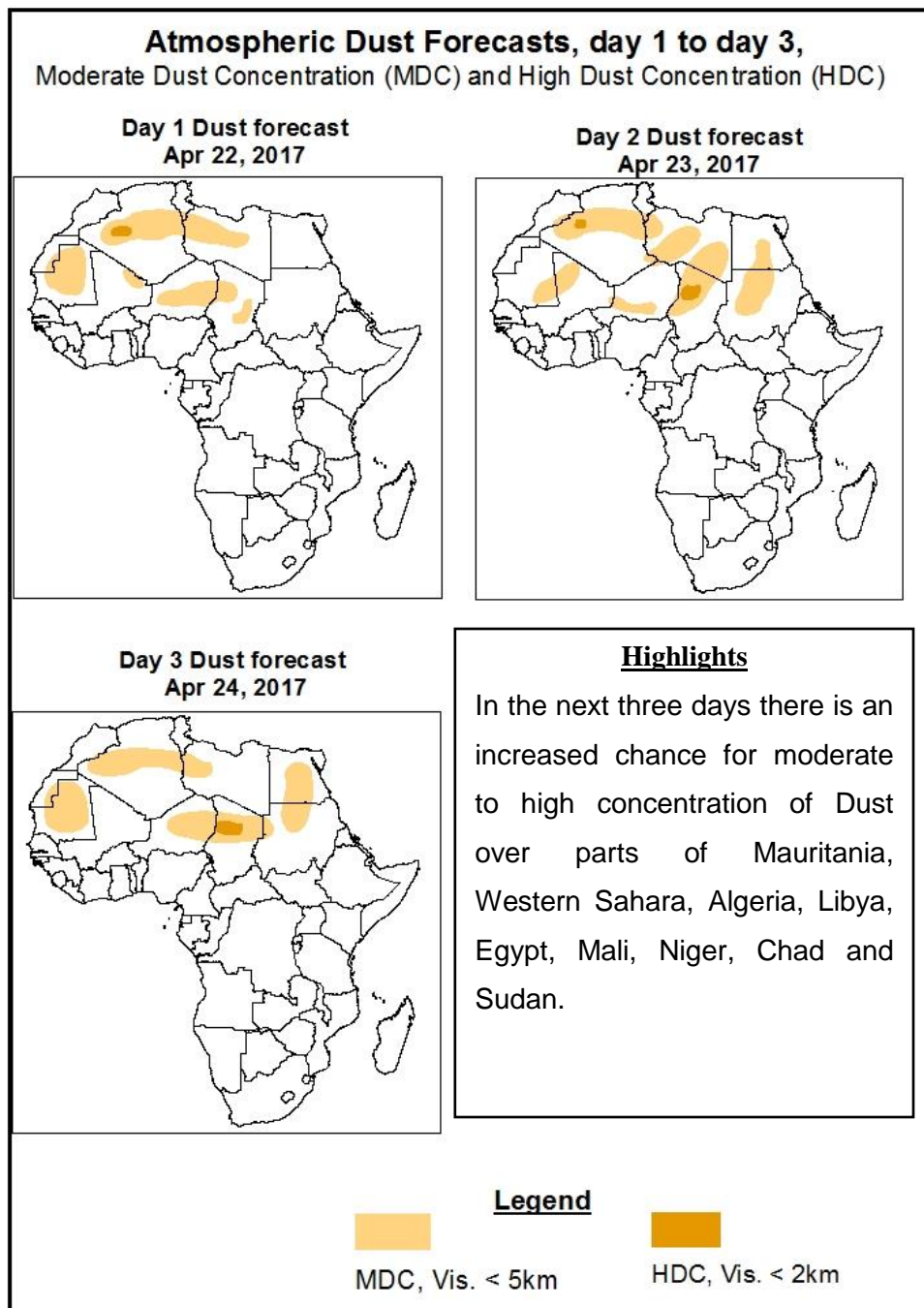


### **Highlights**

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 Morocco, Cameroon, Gabon, Congo, CAR, DRC, Ethiopia, Uganda, Burundi, Rwanda, Angola and local areas Cote d'Ivoire, Ghana, Benin, Nigeria, South Sudan, Somalia, Equatorial Guinea, Kenya, Tanzania, Zambia, Namibia, Botswana, Zimbabwe and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Apr 22 – 24, 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: Apr 22 – Apr 26, 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 1026hPa during the next 72 hours and intensify to 1036hPa during the remaining 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 1025hPa to 1032hPa during the next 48 hours and weaken to 1024hPa 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 1024hPa to 1026hPa during the forecast period.

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

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, Congo, CAR, DRC, South Sudan, Uganda, Kenya, Tanzania, Angola, Zimbabwe, Mozambique, Botswana, 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 Morocco, Cameroon, Gabon, Congo, CAR, DRC, Ethiopia, Uganda, Burundi, Rwanda, Angola and local areas of Cote d'Ivoire, Ghana, Benin, Nigeria, South Sudan, Somalia, Equatorial Guinea, Kenya, Tanzania, Zambia, Namibia, Botswana, Zimbabwe and Madagascar.



## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Apr 20, 2017)

Light to moderate rainfall was observed over portions of Morocco, Algeria, Burkina Faso, Liberia, Cote d'Ivoire, Ghana, Benin, Togo, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, DRC, South Sudan, Tanzania and Angola.

### 2.2. Weather assessment for the current day (Apr 21, 2017)

Intense convective clouds are observed over portions of Morocco, Algeria, Burkina Faso, Sierra Leone, Guinea, Liberia, Cote d'Ivoire, Ghana, Togo, Benin, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, South Sudan, Ethiopia, Kenya, Uganda, Tanzania, Angola, Zambia, Malawi, Namibia, Mozambique and Madagascar.

