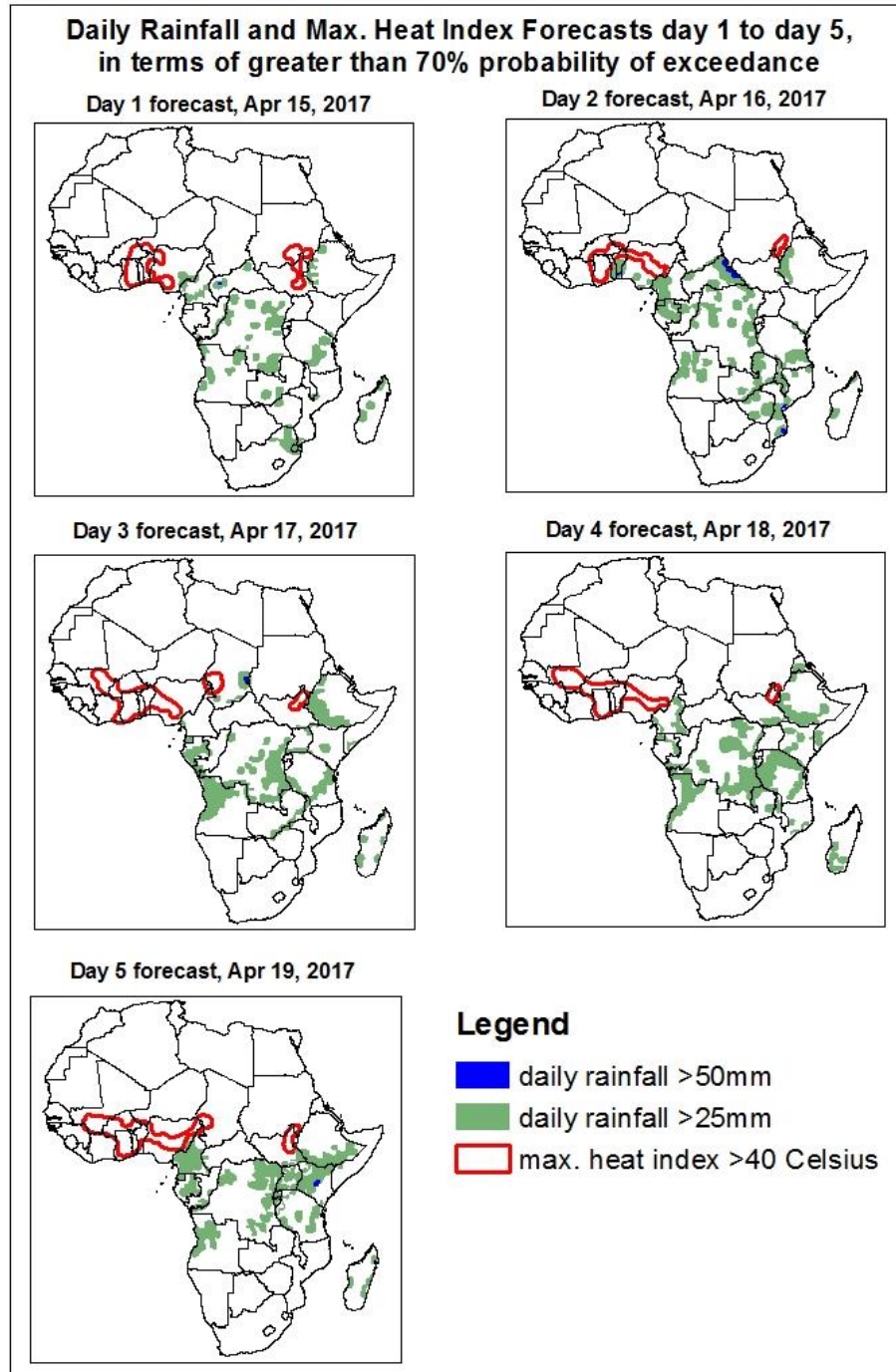


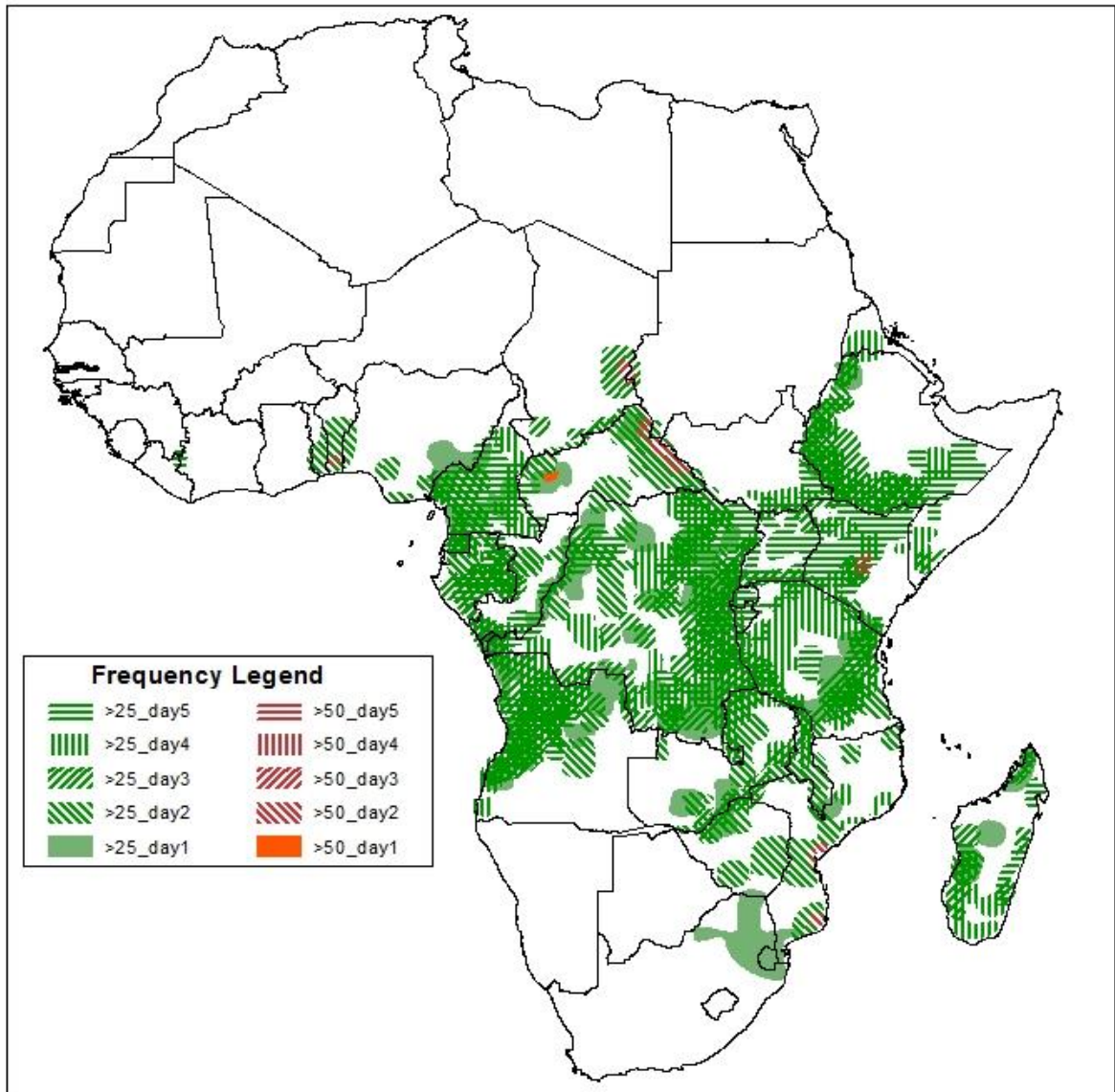
## 1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Apr 14, 2017)

### 1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Apr 15 – 19, 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 15 - 19, 2017

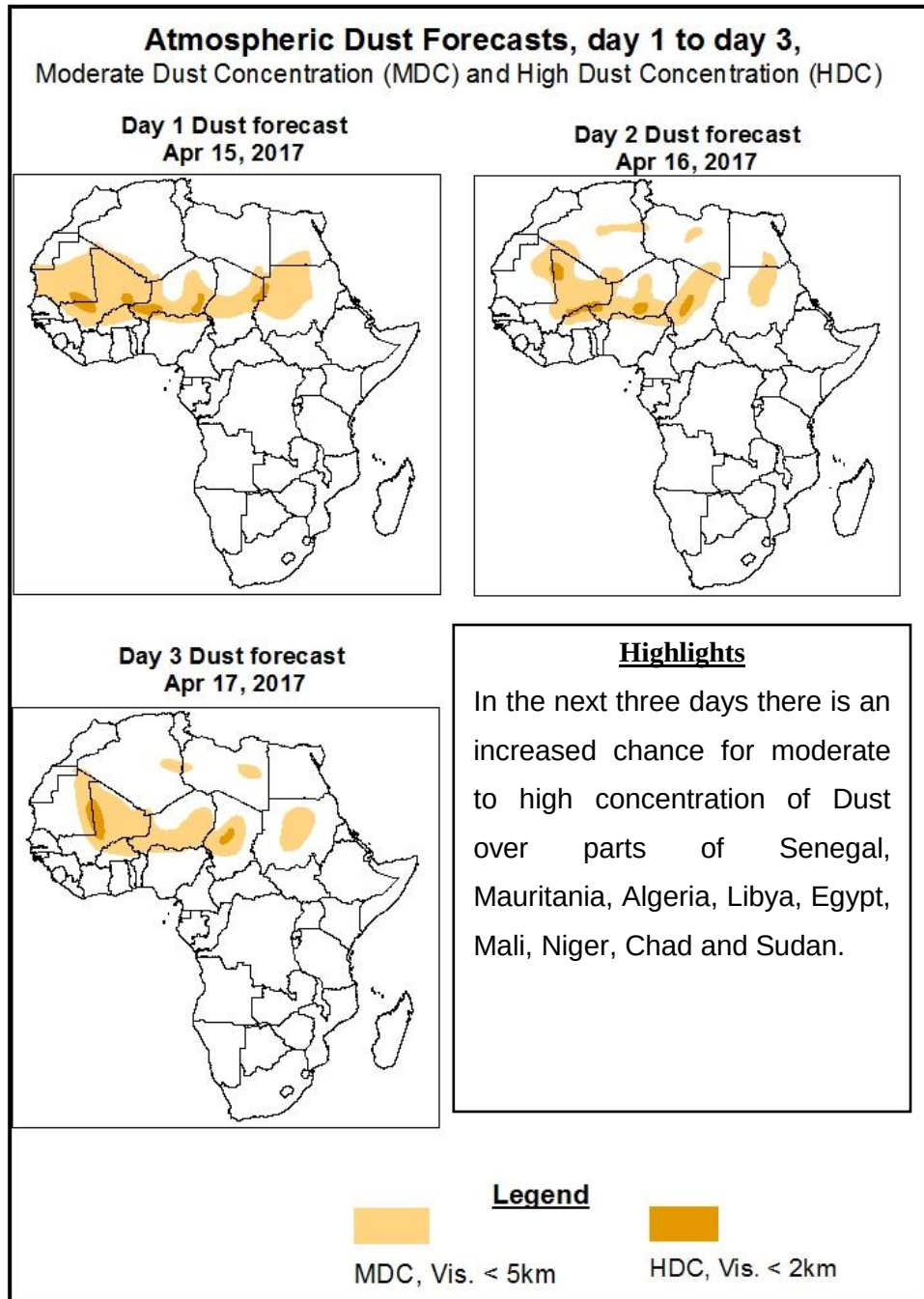


### **Highlights**

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 Cameroon, Gabon, Equatorial Guinea, Congo, CAR, DRC, Ethiopia, Uganda, Kenya, Burundi, Rwanda, Tanzania, Angola, Zambia, Malawi, Zimbabwe, Mozambique and Madagascar, local areas Benin, Nigeria, Chad, South Sudan, and South Africa.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Apr 15 – 17, 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 15 – Apr 19, 2017**

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify with its value of the central pressure increasing from 1024hPa to 1027hPa during the next 48 hours, weaken to 1024hPa during the next 72 hours and intensify to 1032hPa during the remaining forecast period.

The St. Helena High Pressure system over the Southeast of the Atlantic Ocean is expected to weaken with its value of the central pressure decreasing from 1035hPa to 1031hPa during the next 72 hours and intensify to 1036hPa during the remaining forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken with its value of the central pressure decreasing from 1030hPa to 1024hPa during the next 96 hours and intensify to 1026hPa during the remaining forecast period.

At 925hPa, strong dry Northeasterly to Easterly winds may lead from light to moderate dust concentration over parts of Senegal, Mauritania, Western Sahara, Algeria, 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, Uganda, Kenya, Tanzania, Angola, Zambia, Zimbabwe, Mozambique, 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 Cameroon, Gabon, Equatorial Guinea, Congo, CAR, DRC, Ethiopia, Uganda, Kenya, Burundi, Rwanda, Tanzania, Angola, Zambia, Malawi, Zimbabwe, Mozambique and Madagascar, local areas Benin, Nigeria, Chad, South Sudan, and South Africa.



## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (Apr 13, 2017)

Light to moderate rainfall was observed over portions of Sudan, Cote d'Ivoire, Ghana, Togo, Benin, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, Angola, Tanzania, Namibia, Botswana, Zimbabwe, Mozambique, South Africa and Madagascar.

### 2.2. Weather assessment for the current day (Apr 14, 2017)

Intense convective clouds are observed over portions of Liberia, Cote d'Ivoire, Ghana, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, South Chad, South Sudan, Ethiopia, Kenya, Uganda, Tanzania, Angola, Zambia, Malawi, Namibia, Zimbabwe, Botswana, Mozambique, South Africa and Madagascar.

