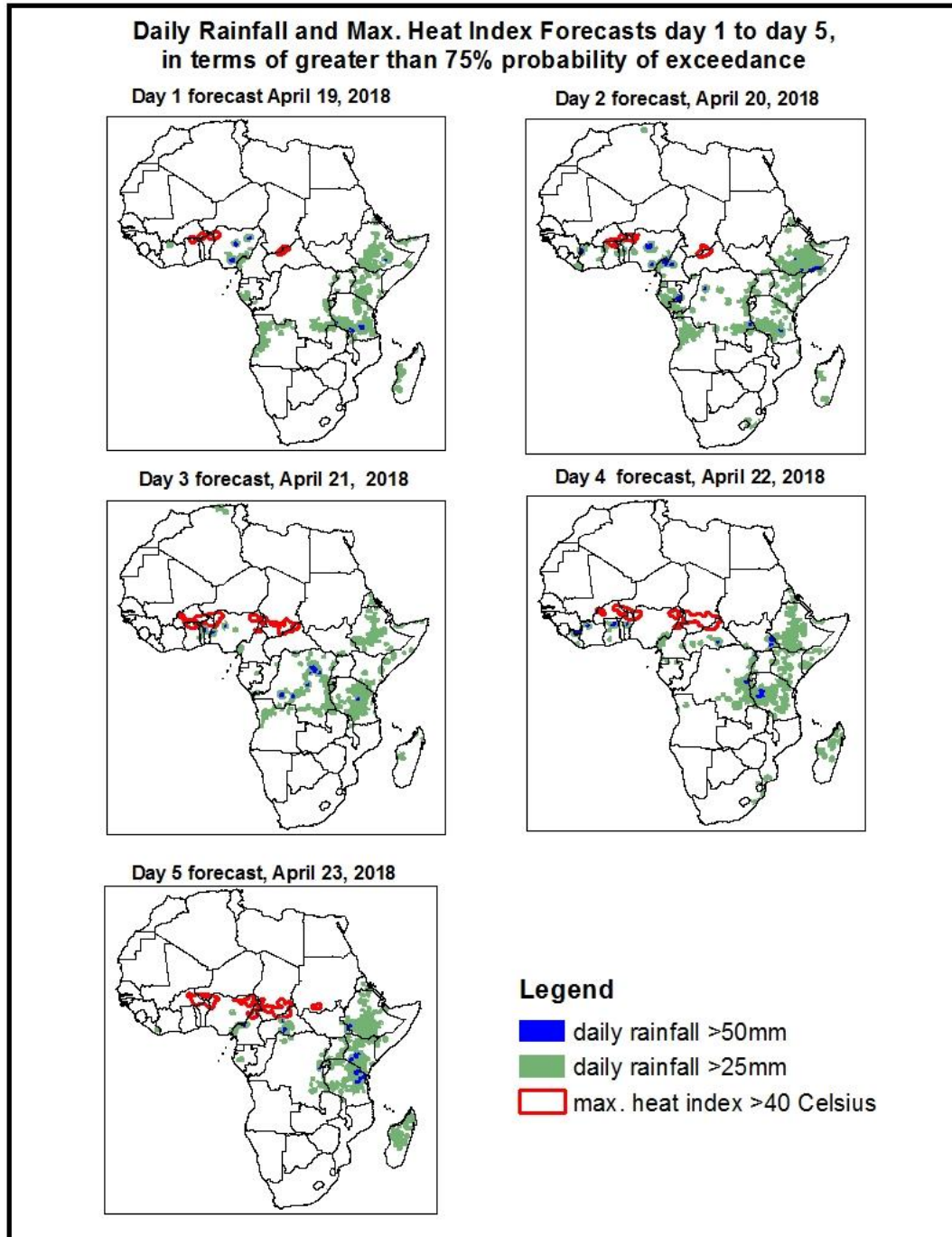


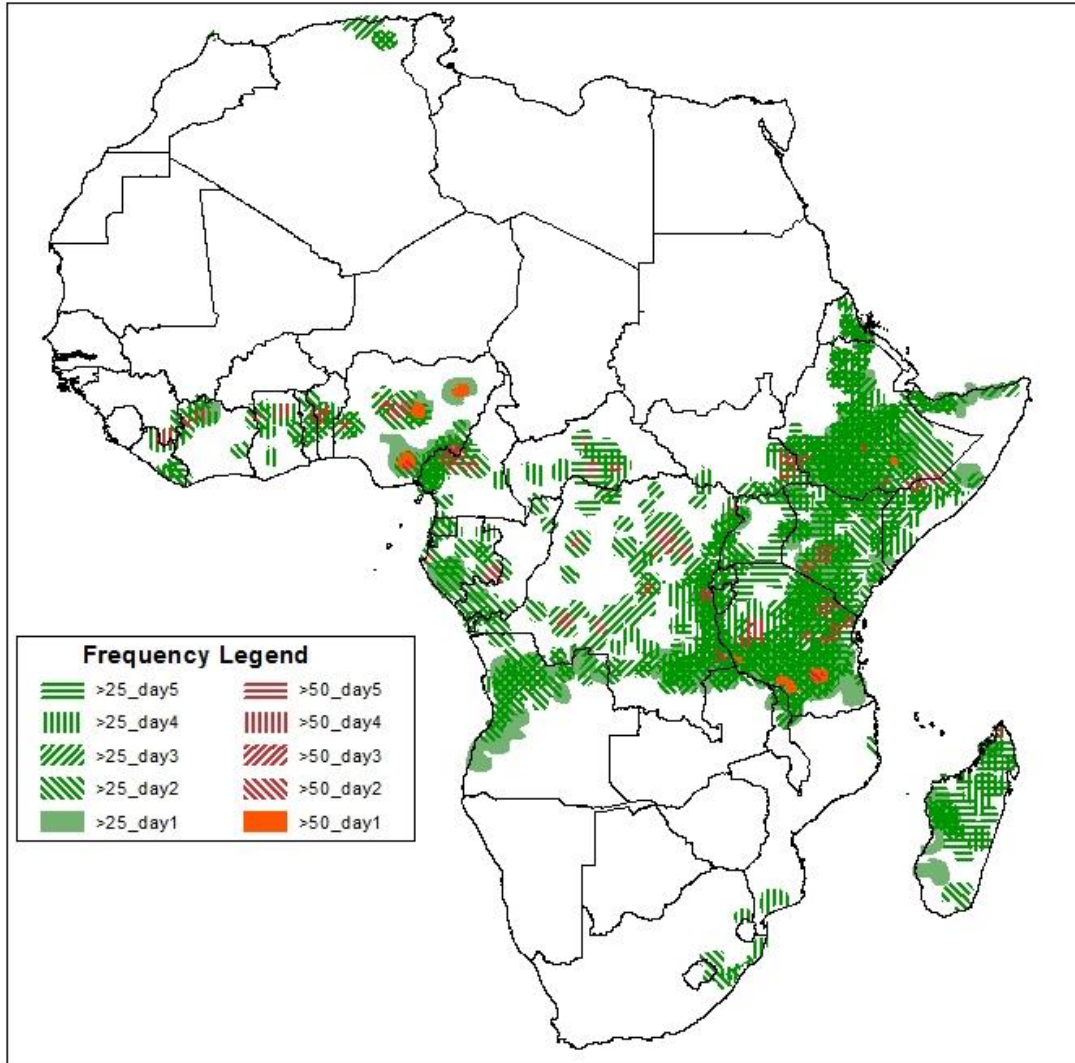
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on April 18, 2018)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Apr 19, – Apr 23, 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 19 Apr - 23 Apr, 2018.

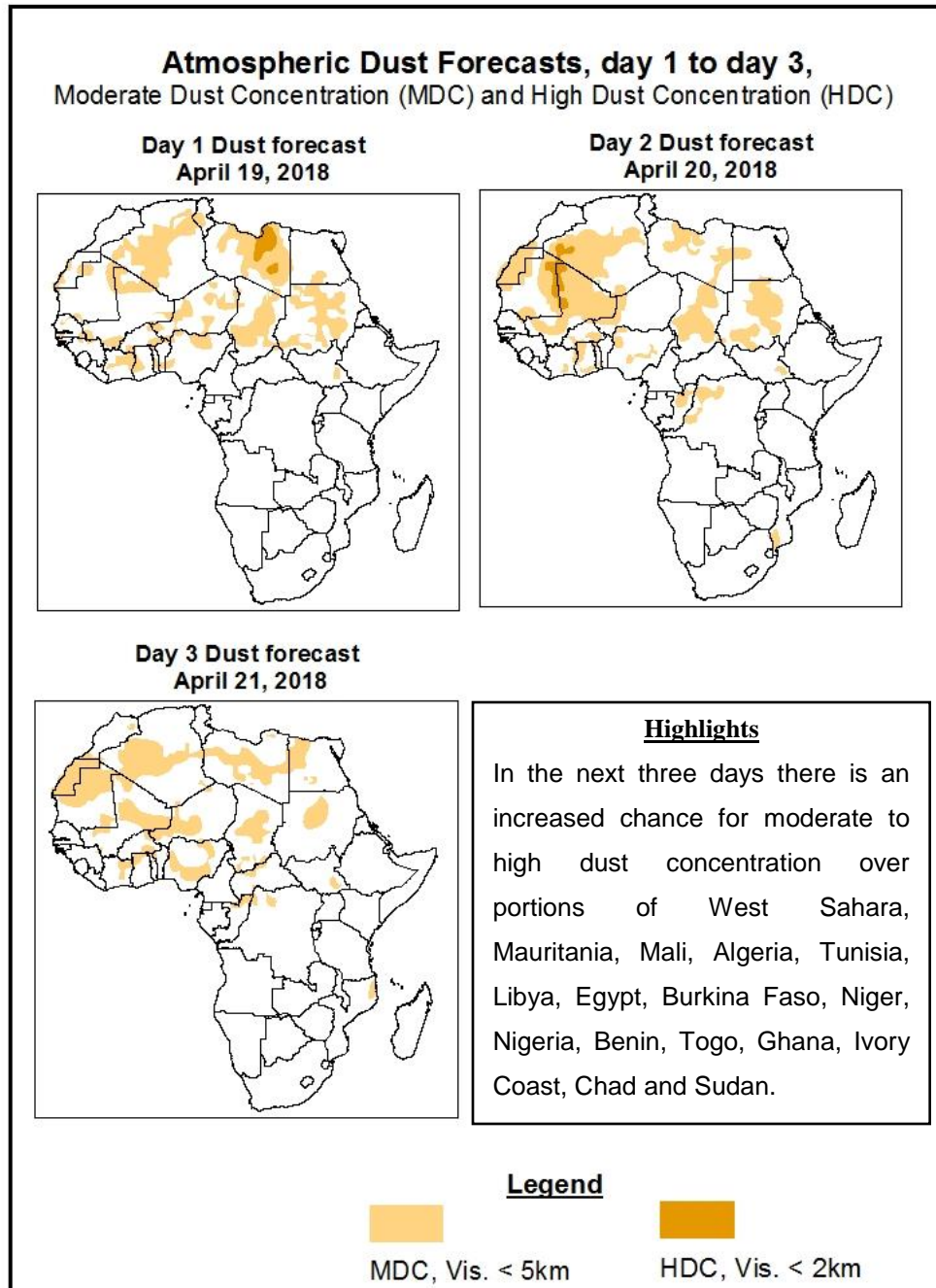


### Highlights

In the next five days, lower-level convergence across Zambia and Tanzania, and lower-level wind convergence near Madagascar, and a low monsoon entrance in West Africa are expected to enhance rainfall in the southern and eastern part of Africa then a reduction of rainfall in western part. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Liberia, Guinea, Ivory Coast, Ghana, Togo, Benin, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, DRC, CAR, Angola, Burundi, Rwanda, Tanzania, Ethiopia, Kenya, South Sudan, Somalia, Eritrea, Uganda and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Apr 19 – Apr 21, 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: Apr 19 – Apr 23, 2018**

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify in the first two days and then weaken in the last three days of the forecast period. The central pressure values increases from about 1031 hPa to 1032 hPa and decreases to 1030 hPa during the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to weaken in the first two days and then intensify in the last three days of the forecast period. The central pressure values decreases from about 1024 hPa to 1020 hPa and increases to 1034 hPa during the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken during the forecast period. The central pressure values ranges from about 1027 hPa to 1025 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 in the extreme northern part of the Gulf of Guinea countries and a low monsoon entrance while the broad area of wind convergence remain active the northern portions of Zambia during the forecast period. A strong westerly flow with its associated lower-level convergence is expected to prevail across the northern portions of the Mozambique Channel and northern Madagascar.

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## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (April 17, 2018)

Moderate to locally heavy rainfall was observed over parts of Liberia, Ivory Coast, Nigeria, Cameroon, Angola, DRC, Tunisia, Tanzania, Kenya, Ethiopia, Somalia, Lesotho, South Africa and Madagascar.

### 2.2. Weather assessment for the current day (April 18, 2018)

Intense convective clouds are observed over across most parts of East Africa.

