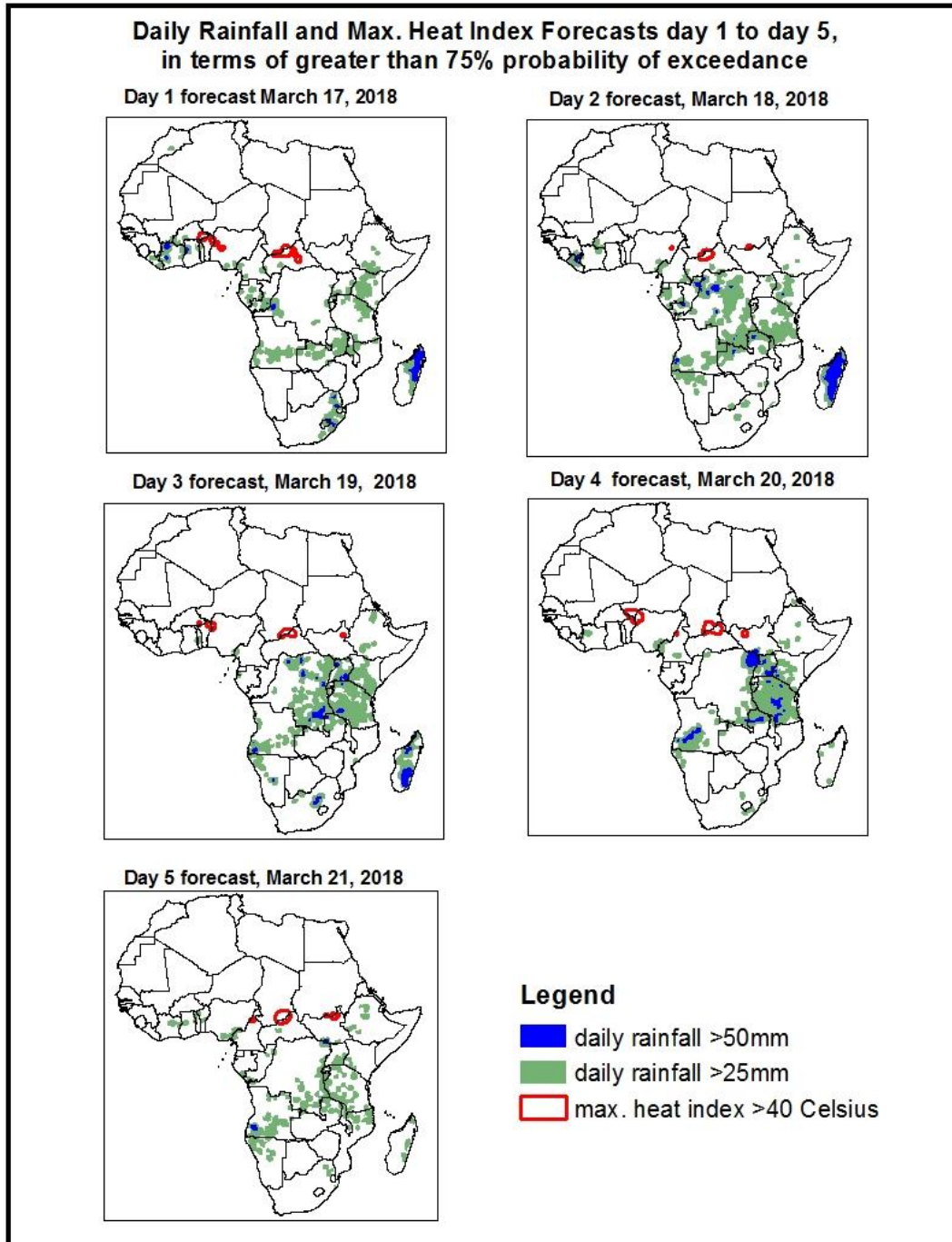


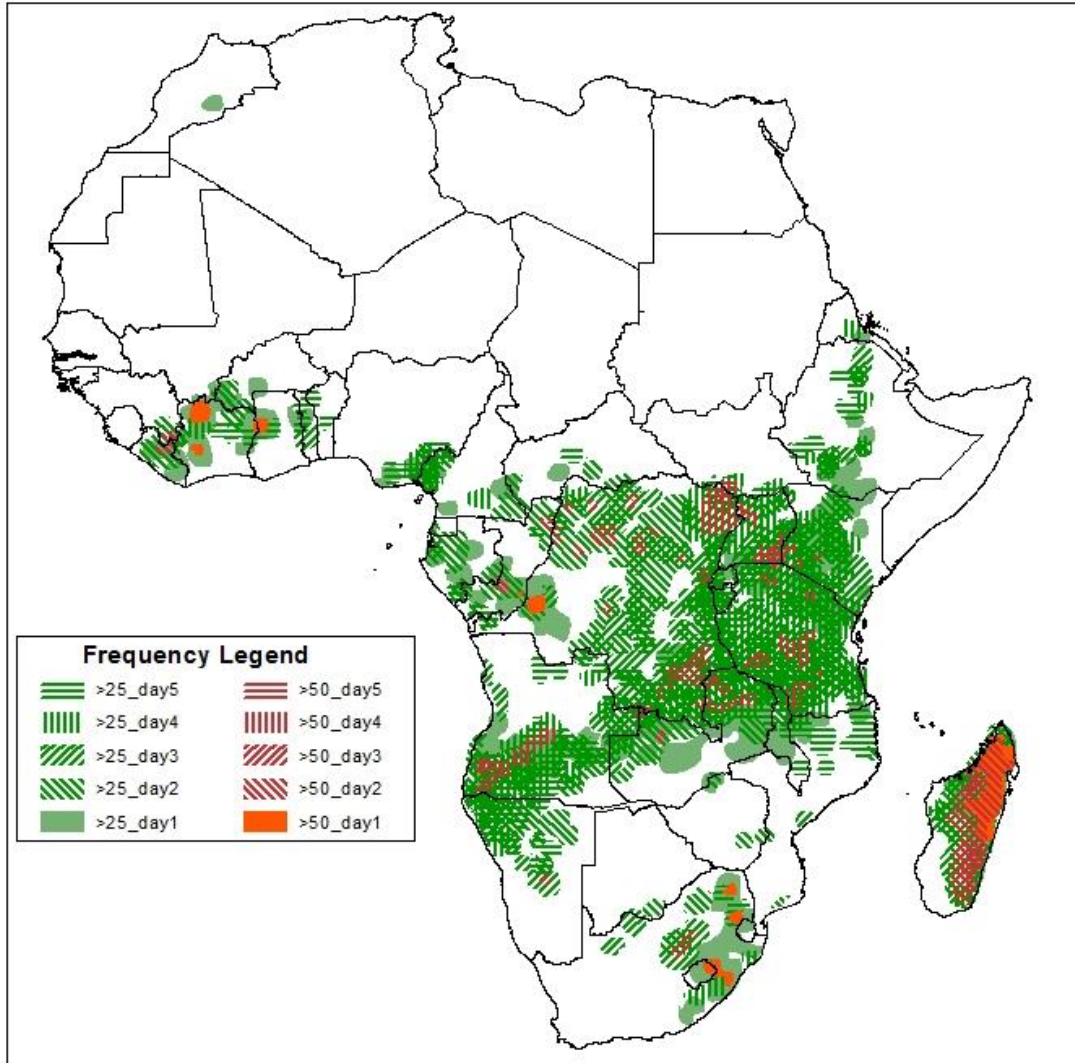
**1. Rainfall, Heat Index and Dust Concentration Forecasts,**(Issued on March 16, 2018)

**1.1. Daily Rainfall and Maximum Heat Index Forecasts** (valid: Mar 17, – Mar 21, 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 17 Mar - 21 Mar, 2018.

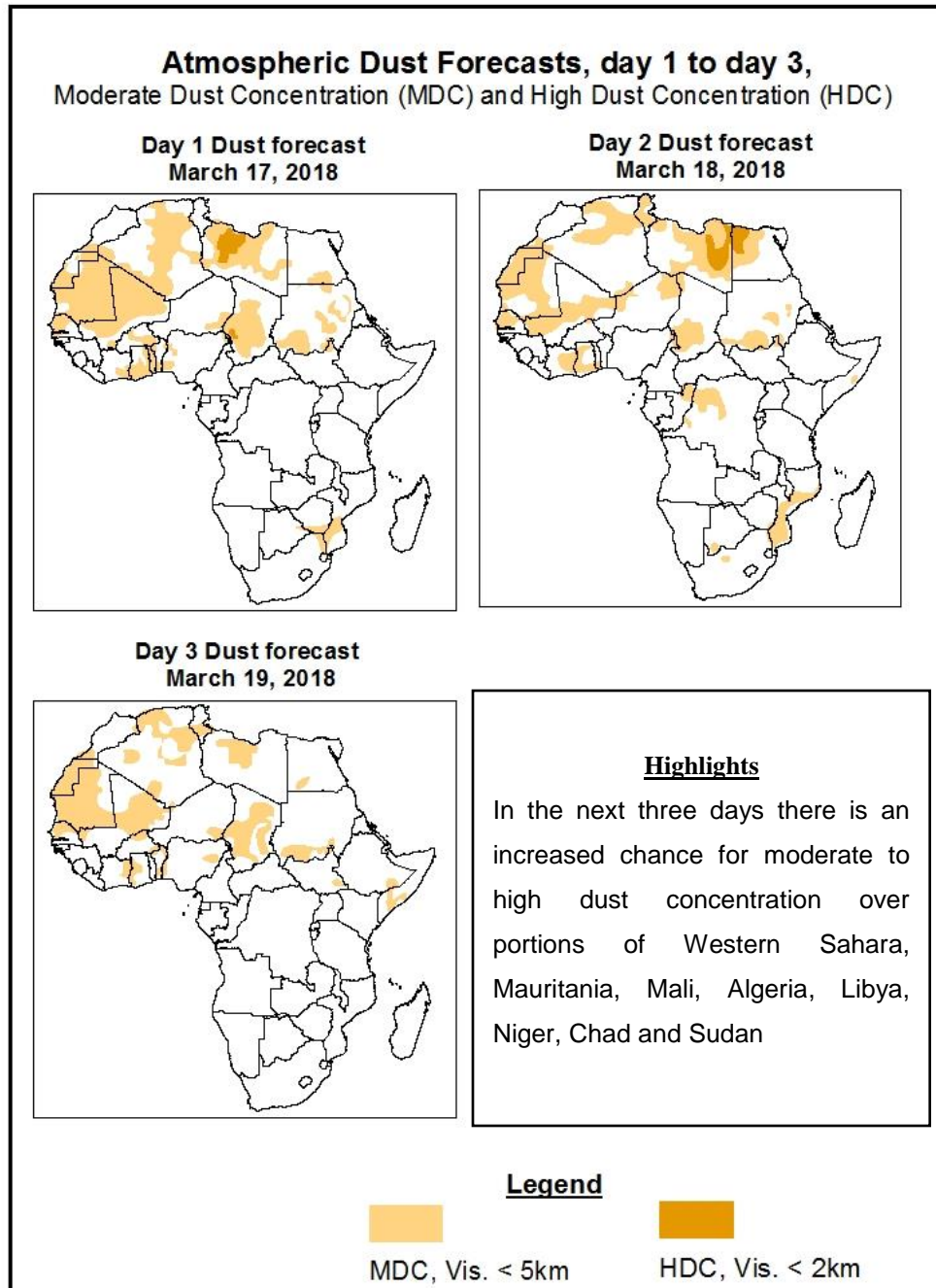


### Highlights

In the next five days, lower-level convergence across Zambia and Tanzania, and lower-level wind convergence near Madagascar, and local wind convergence across parts of southern Tanzania are expected to enhance rainfall in their respective regions. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Liberia, Cote D'ivore, Ghana, Togo, Gabon, Congo, DRC, Angola, Namibia, Zambia, Burundi, Rwanda, Lesotho, South Africa, Swaziland, Mozambique, Malawi, Tanzania, Kenya, Uganda, Ethiopia and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: Mar 17, – Mar 19, 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: Mar 17 – Mar 21, 2018**

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify during the forecast period. The central pressure increases from about 1022 hPa to 1024 hPa during the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to intensify during the forecast period. The central pressure values ranges from about 1020 hPa to 1024 hPa during the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to intensify during the forecast period. The central pressure values ranges from about 1016 hPa to 1032 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, a broad area of wind convergence is expected to remain active across 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.

In the next five days, lower-level convergence across Zambia and Tanzania, and lower-level wind convergence near Madagascar, and local wind convergence across parts of southern Tanzania are expected to enhance rainfall in their respective regions. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Liberia, Cote D'ivore, Ghana, Togo, Gabon, Congo, DRC, Angola, Namibia, Zambia, Burundi, Rwanda, Lesotho, South Africa, Swaziland, Mozambique, Malawi, Tanzania, Kenya, Uganda, Ethiopia and Madagascar.

## **2.0. Previous and Current Day Weather over Africa**

### **2.1. Weather assessment for the previous day** (March 15, 2018)

Moderate to locally heavy rainfall was observed over parts of Guinea, Cote d'ivore, Ghana, Togo, Gabon, Angola, Congo, DRC, Tanzania, Kenya, Uganda, Ethiopia, Zambia, South Africa, Lesotho, Swaziland and Madagascar.

**2.2. Weather assessment for the current day (March 16, 2018)**

Intense convective clouds are observed over across the northern parts of Southern Africa. Intense clouds.

