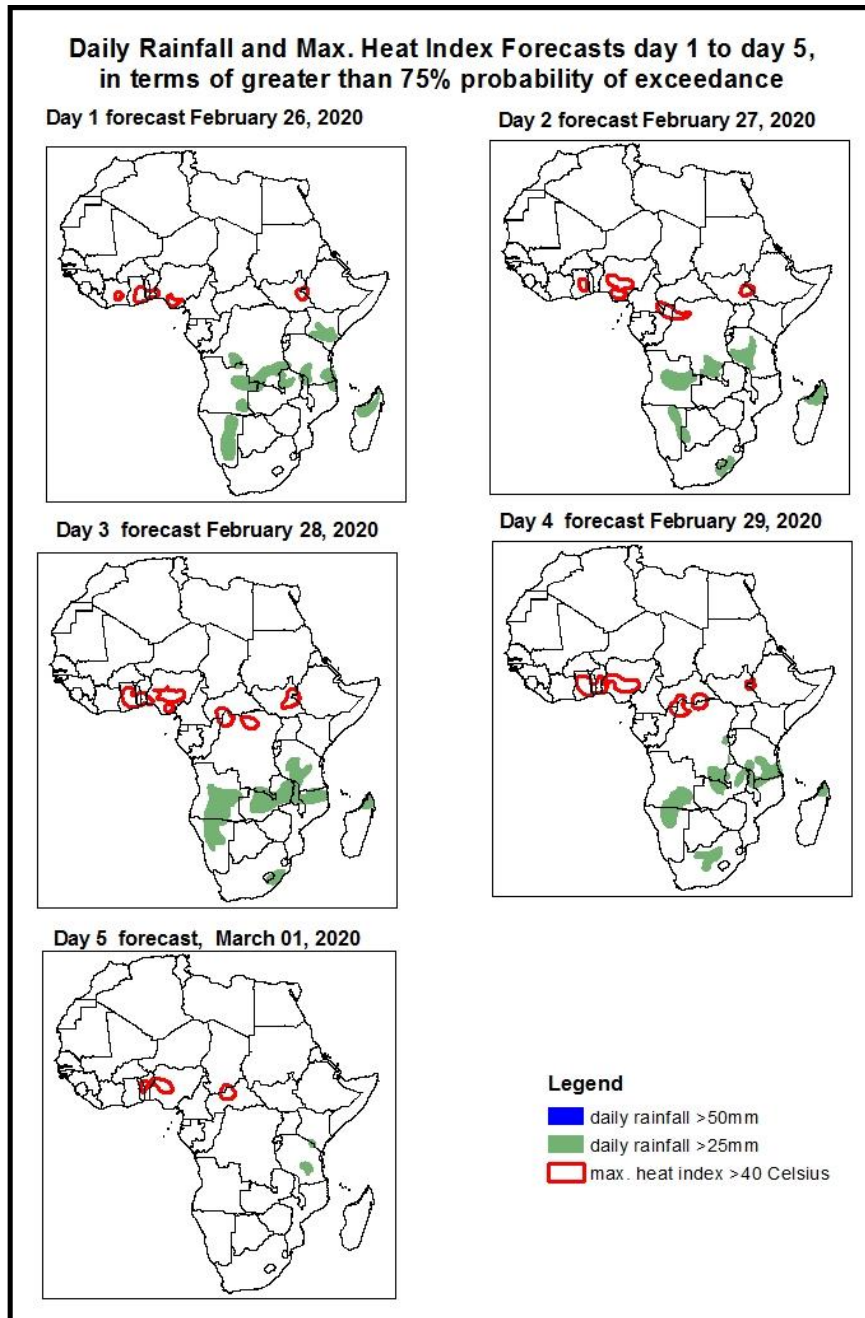


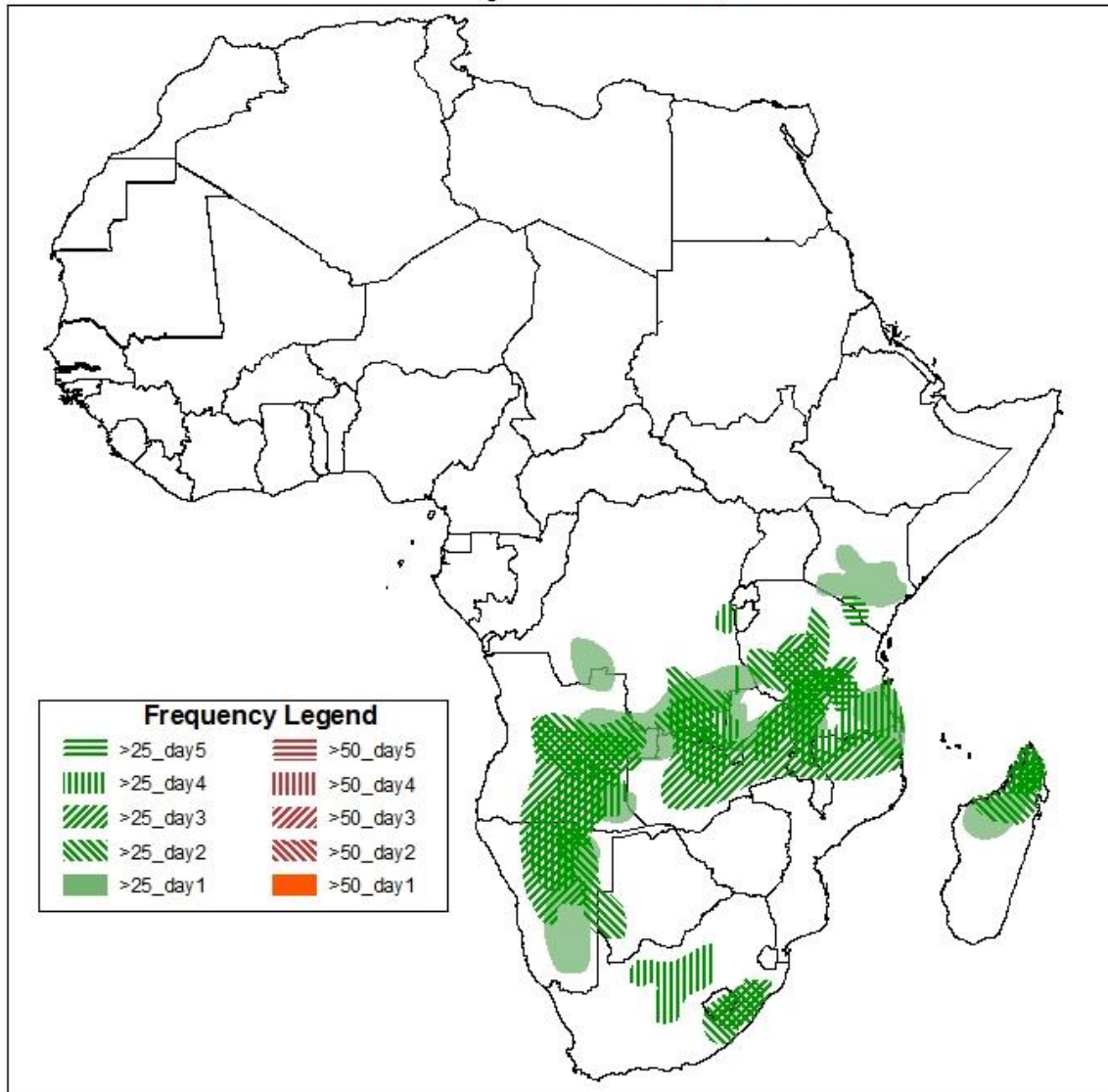
**1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on February 25, 2020)**

**1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: 26 Feb – 01 March, 2020)**

The forecasts are expressed in terms of high probability of precipitation (POP), valid 06Z to 06Z, and exceedance probability of maximum heat index (>40°C), based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



## Five Days Rainfall Forecast Summary 26 February - 01 March, 2020

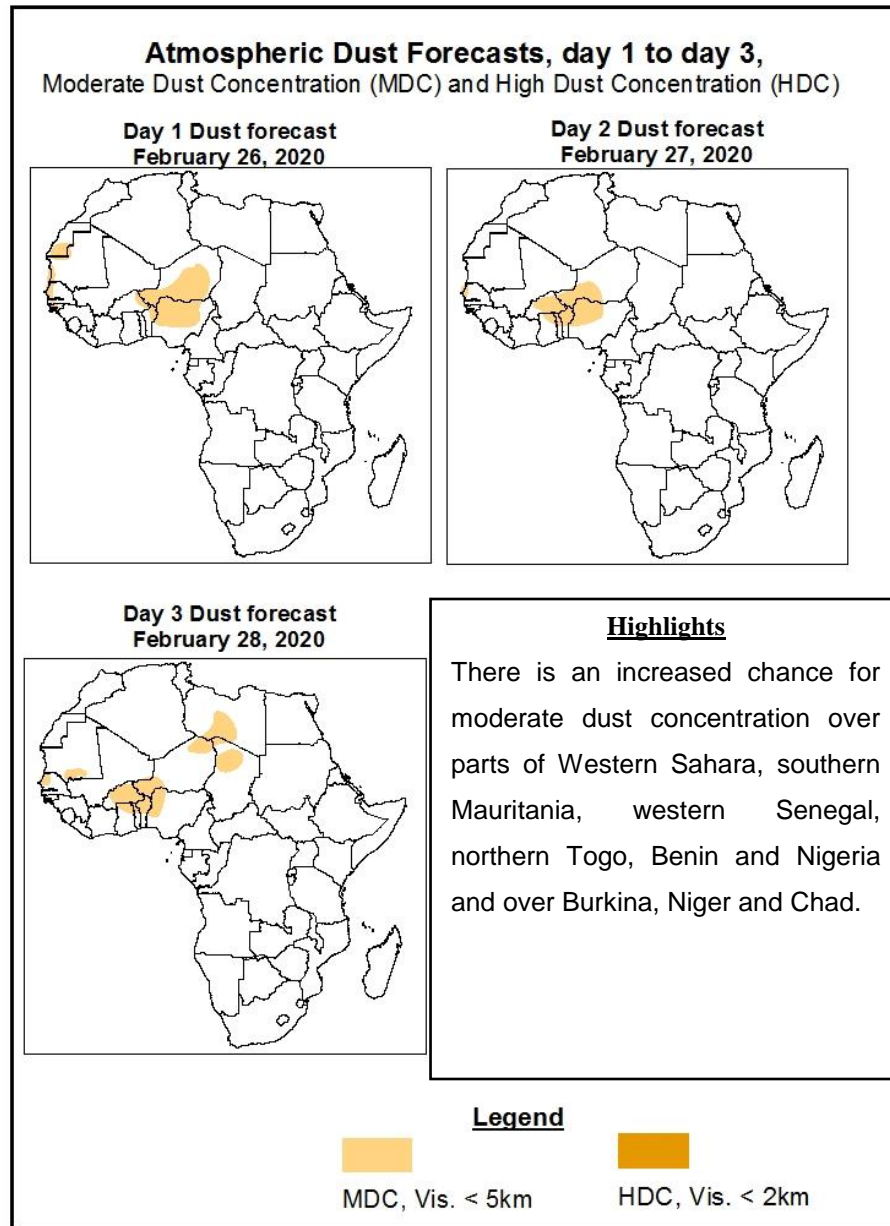


### **Highlights**

- Cyclonic trough and wind convergences over southern Africa and in portions of Central and East Africa are expected to enhance rainfall over these areas.
- At least 25mm for two or more days is likely over Angola, Namibia, southern D R Congo, Zambia, Malawi, Tanzania, northern Zimbabwe and northern Madagascar.
- There is an increased chance for daily maximum heat index to exceed 40°C over local areas in the Gulf of Guinea region, southern Central African R, northern R Congo and eastern South Sudan.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: 26 – 28 Feb, 2020)

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: 26 February – 01 March 2020**

The Azores High Pressure system over Northeast Atlantic and neighboring areas (West Europe and Maghreb) is expected to weaken with his central pressure value decreasing from 1030hPa to 1024hPa during the forecast period.

The St. Helena High Pressure system over the South Atlantic Ocean is expected to move eastwards while maintaining a central pressure value average around 1022hPa during the forecast period.

The Mascarene High Pressure system over Southwest of Indian Ocean is expected to move eastwards while weakening with his central pressure value decreasing from 1030hPa to 1024hPa during the forecast period.

At 925-hPa level, an area of strong dry northerly to northeasterly flow is expected to enhance atmospheric dust concentration over the Sahel and Sahara region. Zonal wind convergences and cyclonic through are expected to remain active along 5°N and in some parts of central, eastern and southern Africa.

At 850-hPa level, lower level-wind convergences and cyclonic trough are expected to remain active along 5°N and over central, eastern and southern Africa.

At 700-hPa level, cyclonic circulation and mid-level wind convergences are expected to remain active in portions of central, eastern and southern Africa. A trough associated with mid-latitude frontal system is expected to propagate eastward across the eastern Mediterranean region, and is likely to cause increased cloudiness over parts of the Greater Horn of Africa during the forecast period.

Cyclonic through and wind convergences over southern Africa and in portions of Central and East Africa are expected to enhance rainfall over these areas. At least 25mm for two or more days is likely over Angola, Namibia, southern D R Congo, Zambia, Malawi, Tanzania, northern Zimbabwe and northern Madagascar. There is an increased chance for daily

maximum heat index to exceed 40°C over local areas in the Gulf of Guinea region, southern Central African R, northern R Congo and eastern South Sudan.

## 2.0. Previous and Current Day Weather over Africa

### 2.1. Weather assessment for the previous day (February 24, 2020)

Daily rainfall amount exceeded 25 mm over local areas in R Congo, D R Congo, Angola, Botswana, Zambia, Malawi, Tanzania, Mozambique and Madagascar, with rainfall amount in excess of 50 mm observed over local areas in southern R Congo, central D R Congo, southern Angola, northern Botswana, Zambia, northern Malawi, southern Tanzania, northern Mozambique and northern Madagascar.

### 2.2. Weather assessment for the current day (February 25, 2020)

Convective clouds are observed across Southern, Central and Eastern Africa.

