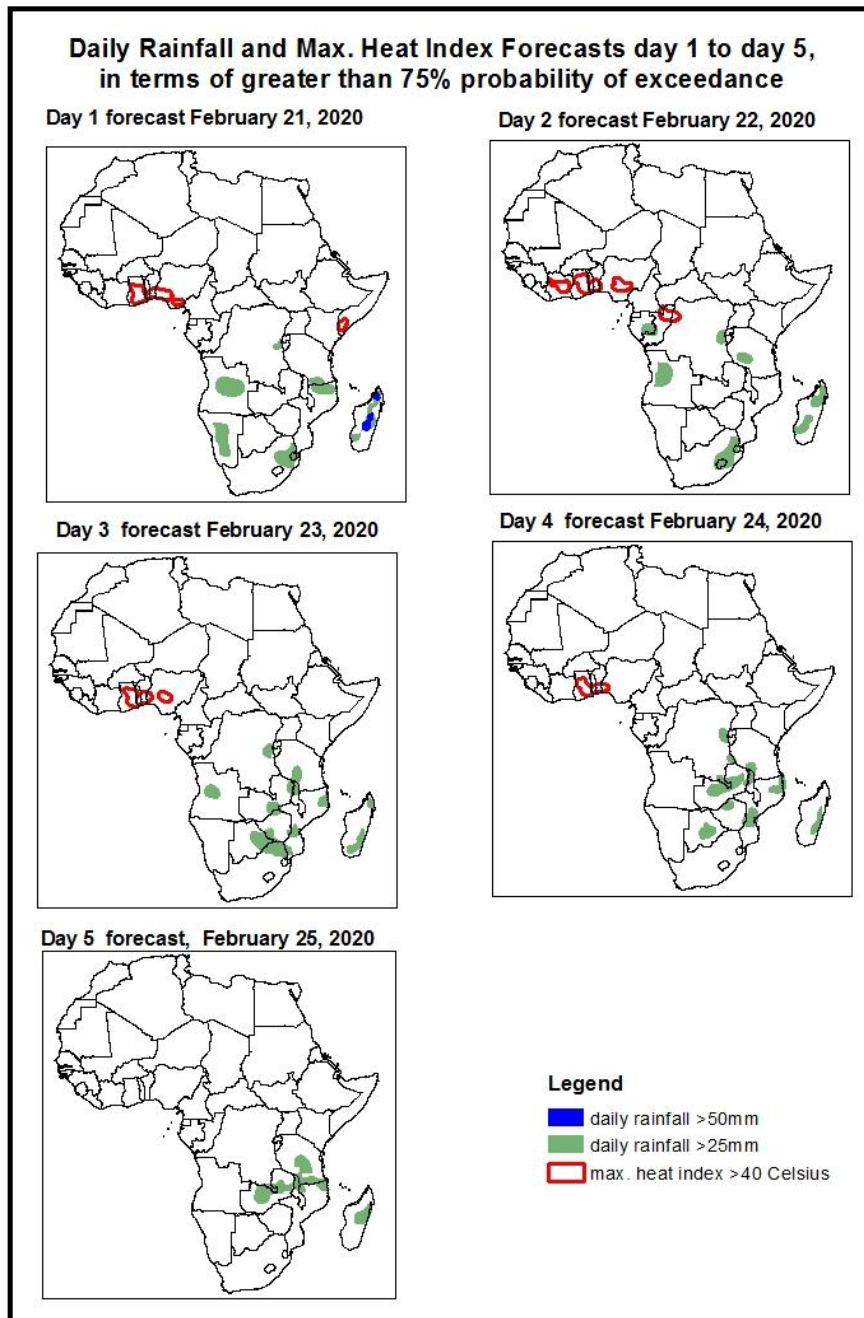


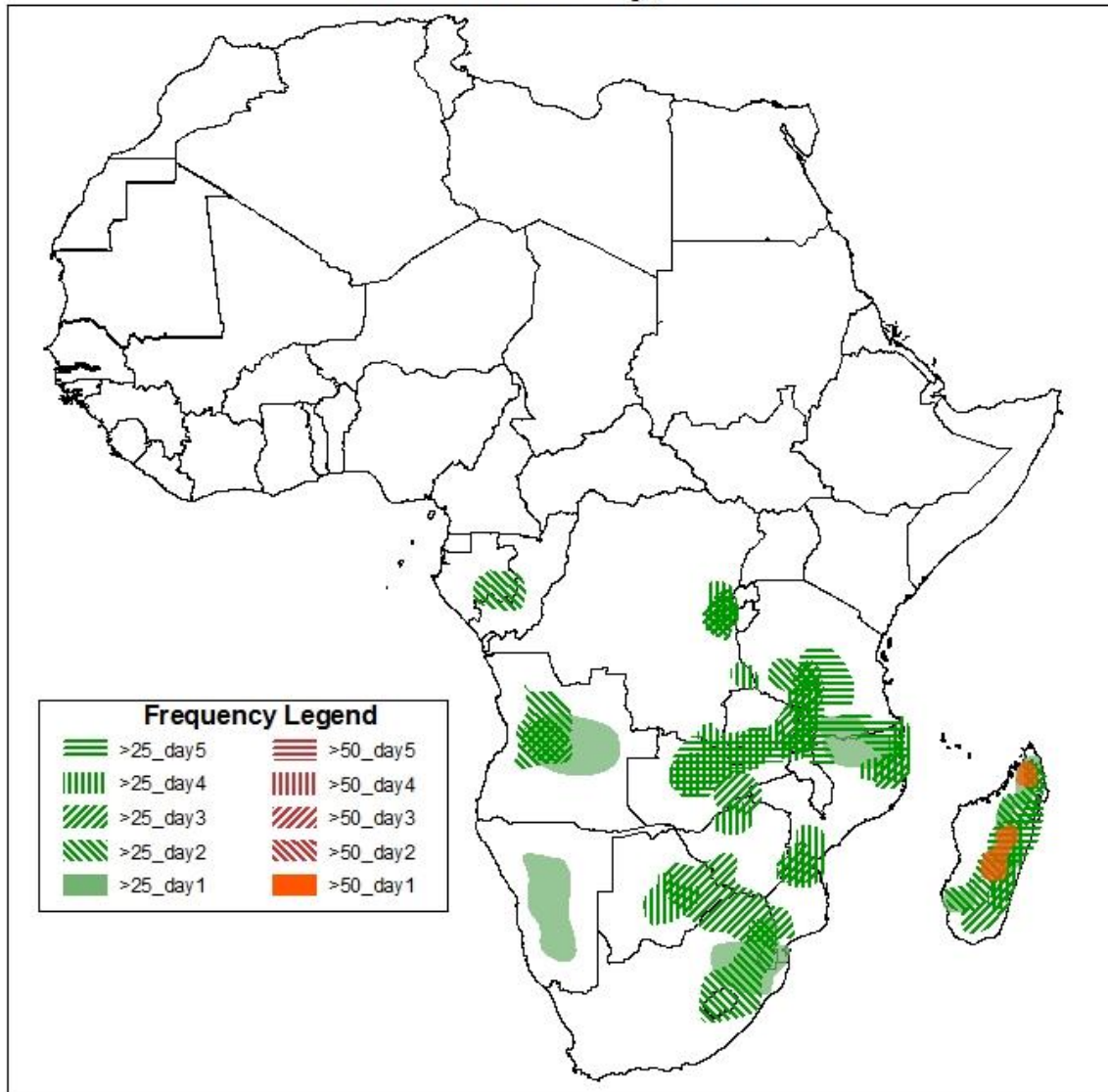
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on February 20, 2020)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: 21 – 25 Feb, 2020)

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



Five Days Rainfall Forecast Summary 21 - 25 February, 2020

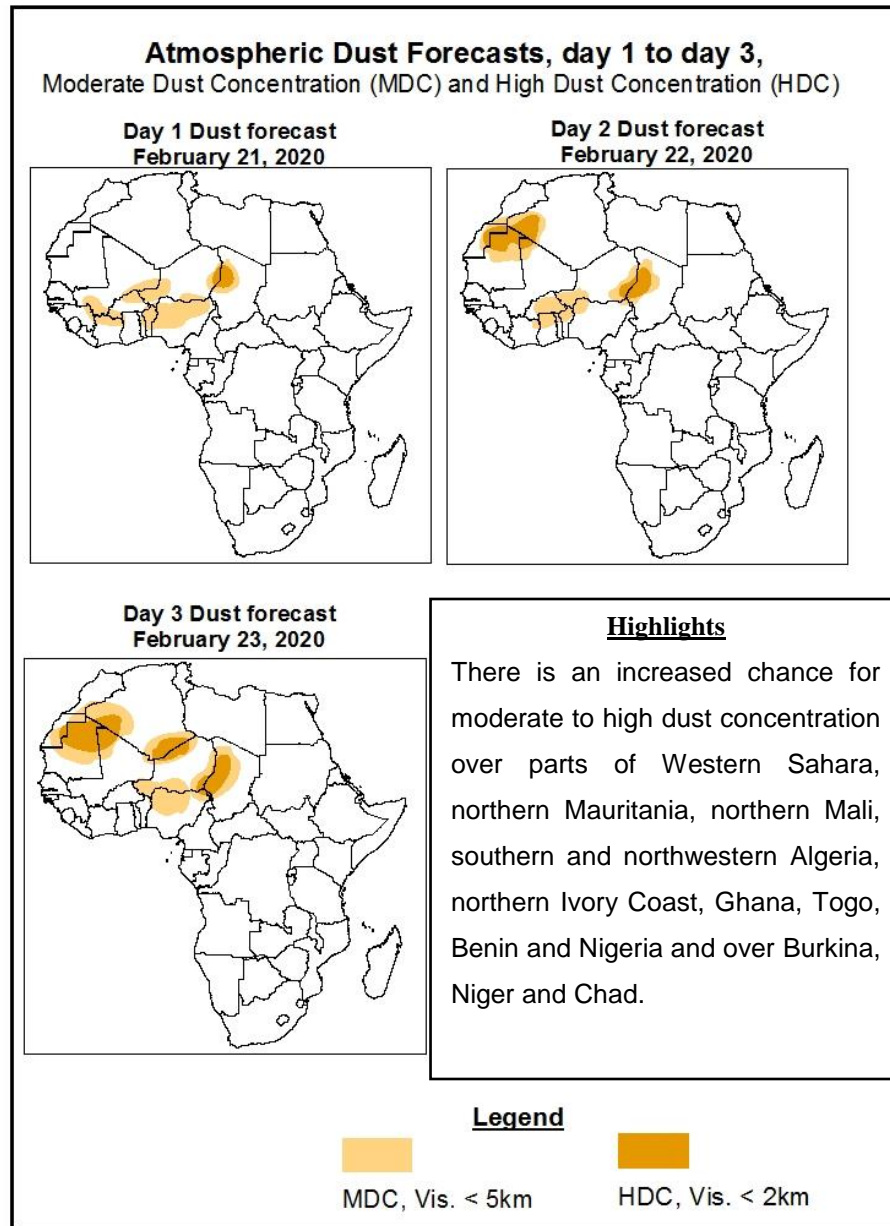


Highlights

- Cyclonic through over southern Africa and in portions of Central Africa are expected to enhance rainfall over these areas.
- At least 25mm for two or more days is likely over R Congo and Gabon, Angola, eastern D R Congo, Zambia, Malawi, southern Tanzania, Mozambique, Botswana, Zimbabwe, southeastern South Africa, with an increased chance for rainfall to exceed 50mm over Madagascar.
- There is an increased chance for daily maximum heat index to exceed 40°C over local areas in the Gulf of Guinea region and northern R Congo.

1.2. Atmospheric Dust Concentration Forecasts (valid: 21 – 23 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: 21 – 25 February 2020

The Azores High Pressure system over Northeast Atlantic and neighboring areas is expected to weaken with its central pressure value decreasing from 1034hPa to 1029hPa during the forecast period.

The St. Helena High Pressure system over the South Atlantic Ocean is expected to slightly intensify with his central pressure value increasing from 1023hPa to 1025hPa during the forecast period.

The Mascarene High Pressure system over Southwest of Indian Ocean is expected to intensify while moving eastwards with his central pressure value increasing from 1027hPa to 1033hPa 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 trough are expected to remain active along 5°N and in some parts of central and southern Africa.

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

At 700-hPa level, cyclonic circulation is expected to remain active in portions of central Africa and over 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 trough over southern Africa and in portions of Central Africa are expected to enhance rainfall over these areas. At least 25mm for two or more days is likely over R Congo and Gabon, Angola, eastern D R Congo, Zambia, Malawi, southern Tanzania, Mozambique, Botswana, Zimbabwe, southeastern South Africa, with an increased chance for rainfall to exceed 50mm over Madagascar. There is an increased chance for daily maximum heat index to exceed 40°C over local areas in the Gulf of Guinea region and northern R Congo.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (February 19, 2020)

Daily rainfall amount exceeded 25 mm over local areas in R Congo, D R Congo, Angola, Zambia, Mozambique, South Africa and Madagascar, with rainfall amount in excess of 50 mm observed over local areas in southwest D R Congo, northeastern Angola, southern Zambia, southern South Africa and southern Madagascar.

2.2. Weather assessment for the current day (February 20, 2020)

Convective clouds are observed across Southern and Central Africa.

