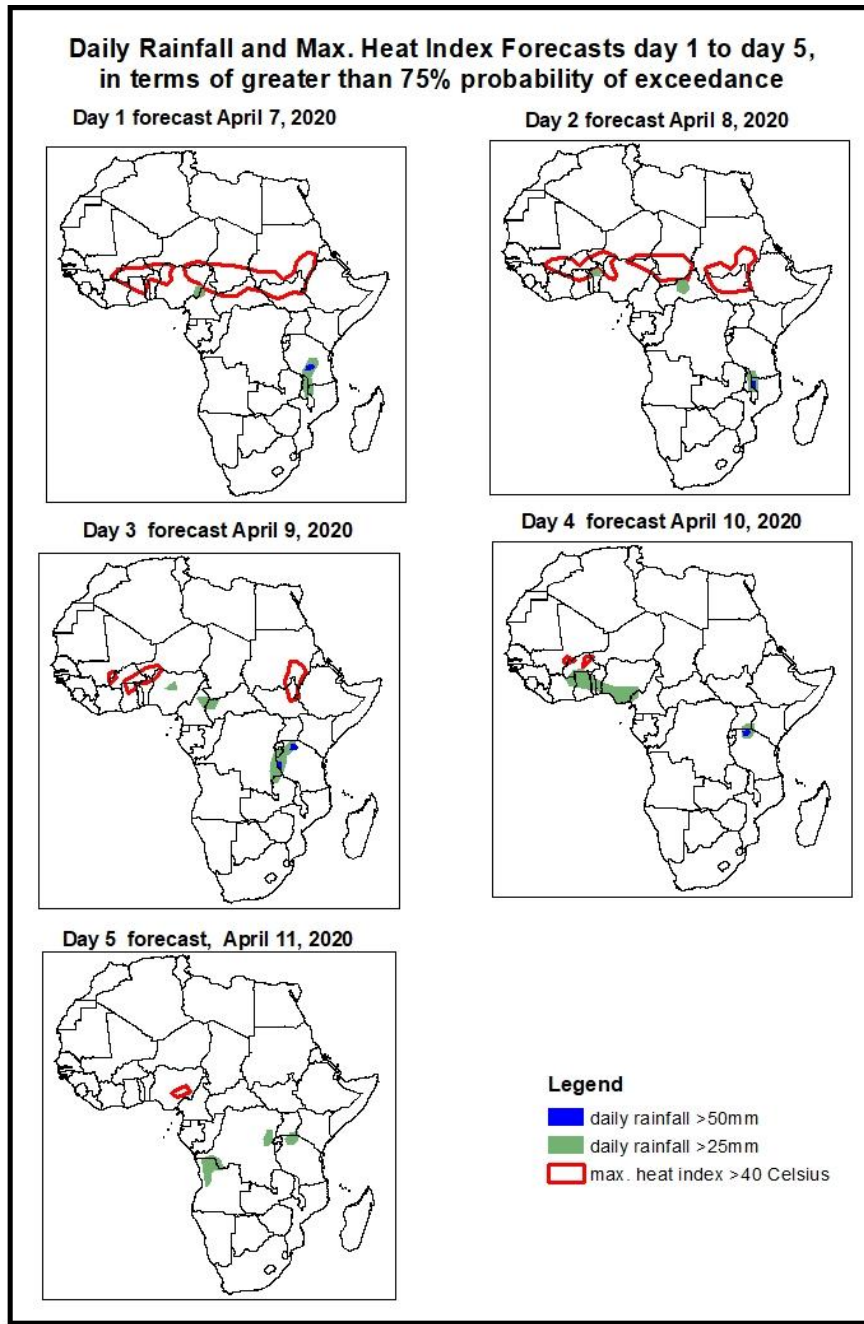


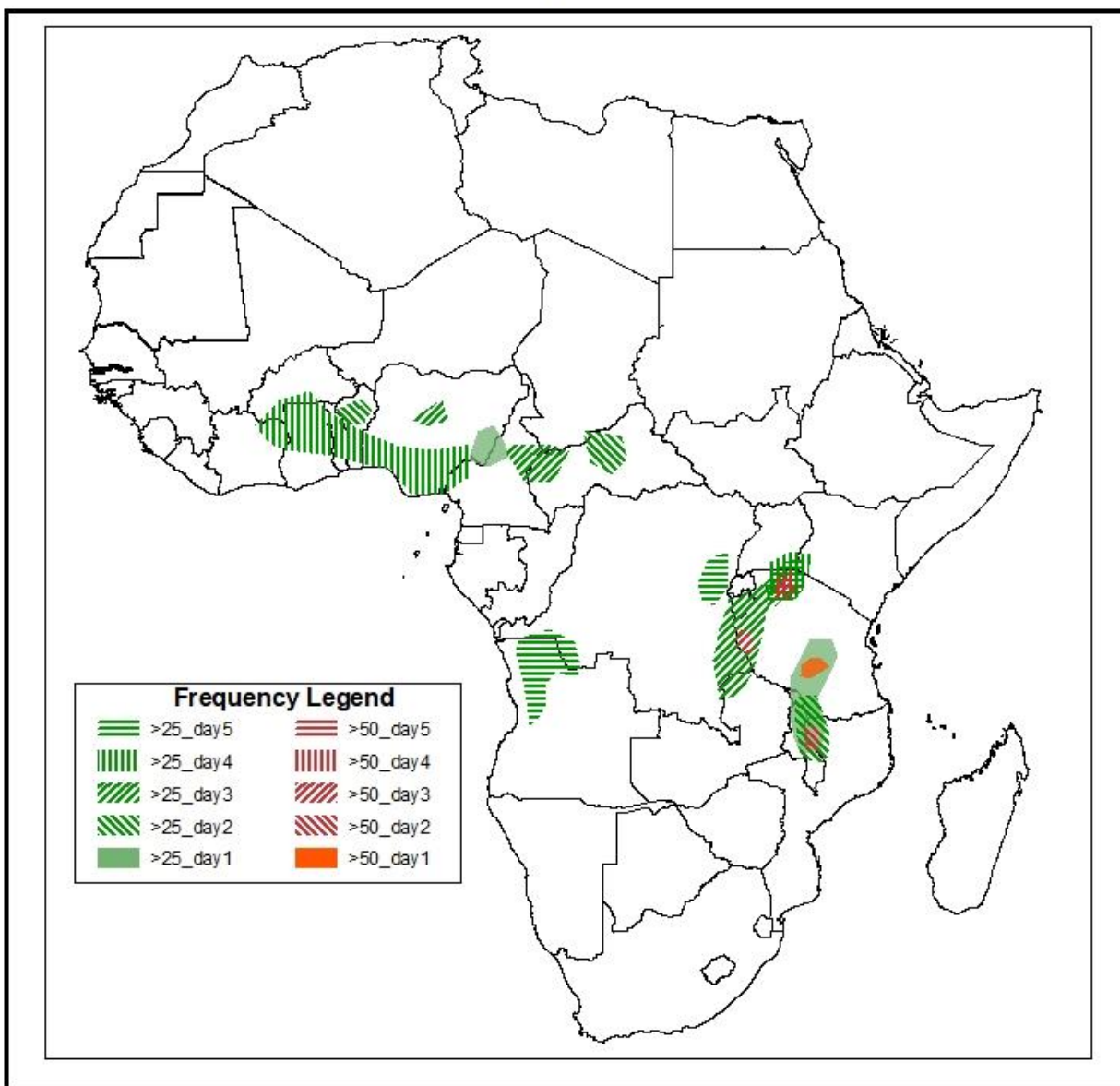
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on April 6, 2020)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: 7 – 11 April, 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 7 - 11 April, 2020

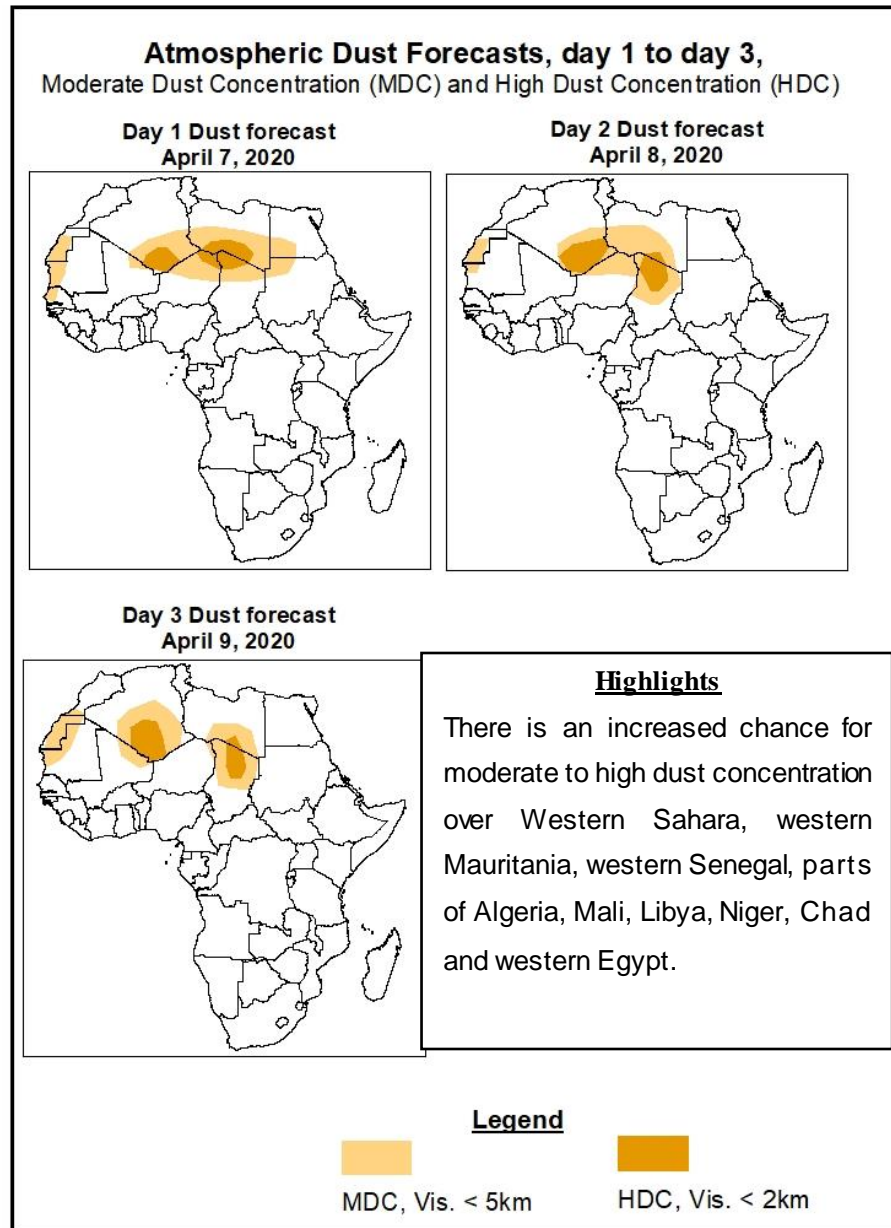


Highlights

- Localized lower-level wind convergences are expected to enhance rainfall over portions of the Gulf of Guinea and Central Africa areas, and East Africa.
- At least 25mm for two or more days is likely over local areas in the Lake Victoria region including parts of Uganda and Tanzania, and northern Malawi.
- There is an increased chance for daily rainfall amount to exceed 50mm over local areas in Malawi and Tanzania.
- There is an increased chance for daily maximum heat index to exceed 40°C across many places in the Sahel region, and local areas in eastern Sudan, South Sudan and southwestern Ethiopia through 72 hours, and probability of extreme heat is likely to decrease over many of these places towards end of the forecast period.

1.2. Atmospheric Dust Concentration Forecasts (valid: 7 – 9 April, 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: 7– 11 April 2020

The Azores High Pressure system over Northeast Atlantic and neighboring areas is expected to intensify with its central pressure value increasing from 1023hPa to 1028hPa during the forecast period.

The St. Helena High Pressure system over the South Atlantic Ocean is expected to weaken with its central pressure value decreasing from 1024hPa to 1020hPa during the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken with its central pressure value decreasing from 1036hPa to 1033-hPa 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 portions of the Sahel region and North Africa. Zonal wind convergences are expected to remain active near 10°N in West and Central Africa.

At 850-hPa level, a deep cyclonic circulation over eastern Mediterranean Sea and the neighboring areas is expected deepen, while a broad anti-cyclonic circulation is expected to prevail across Northwest and North Africa during the forecast period. Zonal wind convergences are expected to remain active near 8°N. Local wind convergences are also expected to remain active in parts of East and Southeast Africa.

At 700-hPa level, a broad anti-cyclonic ridge is expected to prevail across West Africa and the neighboring areas of the Sahel region during the forecast period. A trough associated with a mid-latitude frontal system is expected to deepen over eastern Mediterranean Sea and the neighboring areas of Northeast Africa.

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2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (April 5, 2020)

Daily rainfall amount exceeded 25 mm over local areas in Cote d'Ivoire and Ghana, eastern Nigeria, western Cameroon, Congo, eastern CAR and DRC.

2.2. Weather assessment for the current day (April 6, 2020)

Deep convective clouds are observed over southern Nigeria, parts of Cameroon, eastern DRC, western Tanzania, and northern Zambia.

