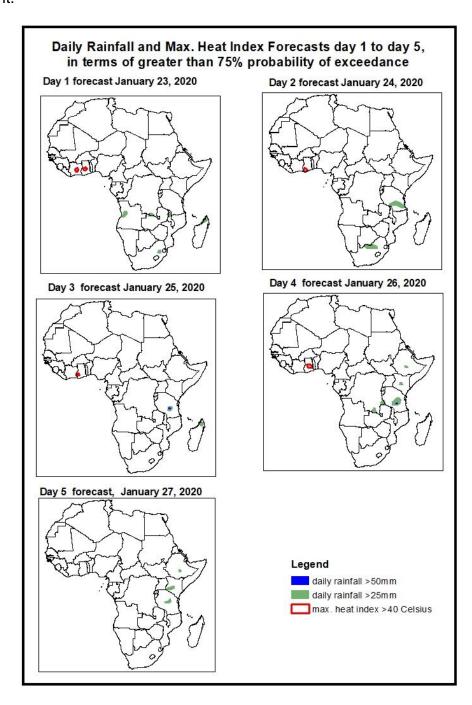
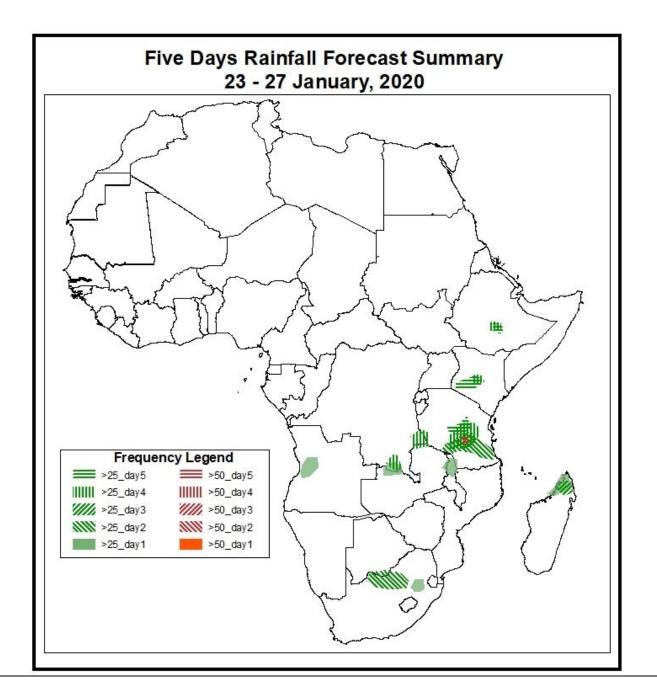
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on January 22, 2020)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: 23 Jan – 27 Jan, 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.



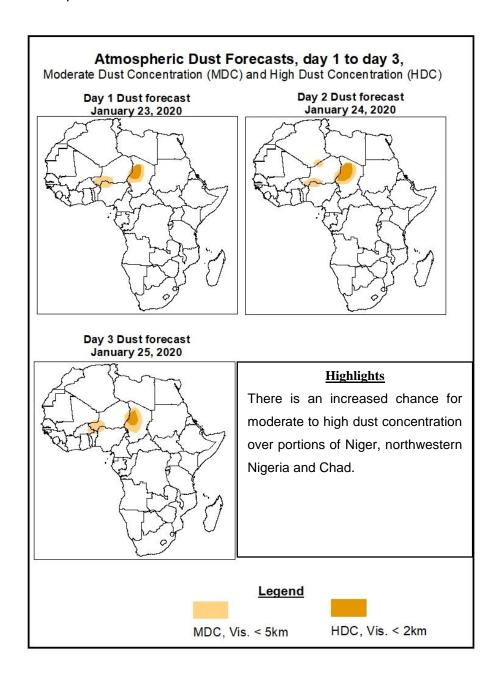


Highlights

- Lower-level wind convergences are expected to enhance rainfall over parts of Tanzania and northern Madagascar.
- At least 25mm for two or more days is likely over local areas in northern Zambia, central Tanzania and northern Madagascar.
- There is an increased likelihood for daily rainfall to exceed 50mm over local areas in Tanzania.
- There is an increased chance for daily maximum heat index to exceed 40°C over local areas in Cote d'Ivoire and Ghana.

1.2. Atmospheric Dust Concentration Forecasts (valid: 23 Jan – 25 Jan 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: 23 January – 27 January 2020

The Azores High Pressure system over the Northeast Atlantic Ocean is expected to weaken, with its central pressure value decreasing from 1043hPa to 1028hPa during the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to maintain an average central pressure value of 1027hPa during the forecast period.

The Mascarene High Pressure system over Southwest of Indian Ocean is expected to intensify, with its central pressure value increasing from 1022hPa to 1026hPa during the forecast period.

The Arabian Ridge is expected to remain strong, stretching as far as Ethiopia, and is expected to maintain dry weather over northeastern Africa.

At 925-hPa level, a broad area of strong dry northerly to northeasterly flow is expected to prevail across the Sahel region and northern Africa. Zonal wind convergences are expected to remain active in the equatorial Africa region.

At 850-hPa level, lower level wind convergences are expected remain active in the Lake Victoria region. Lower-level cyclonic circulation associated with the Angola low is expected to weaken during the forecast period. A lower-level cyclonic circulation over the Mozambique Channel is expected to shift eastwards into Madagascar while weakening during the forecast period.

Lower-level wind convergences are expected to enhance rainfall over parts of Tanzania and northern Madagascar. At least 25mm for two or more days is likely over local areas in northern Zambia, central Tanzania and northern Madagascar. There is an increased likelihood for daily rainfall to exceed 50mm over local areas in Tanzania. There is an increased chance for daily maximum heat index to exceed 40oC over local areas in Cote d'Ivoire and Ghana.

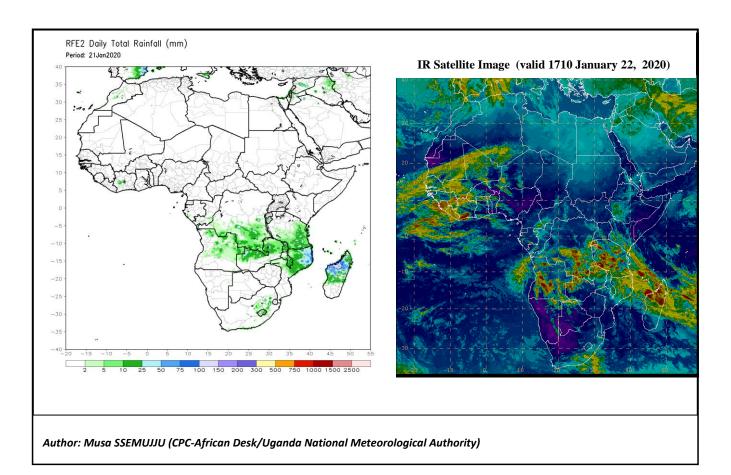
2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (January 21, 2020)

Daily rainfall amount exceeded 25mm over local areas in southern DRC, Zambia and Tanzania, northern Mozambique and northern Madagascar. Daily rainfall totals exceeded 50mm over northern Mozambique and northern Madagascar.

2.2. Weather assessment for the current day (January 22, 2020)

Deep convective clouds are observed over the northern portions of Southern Africa.



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