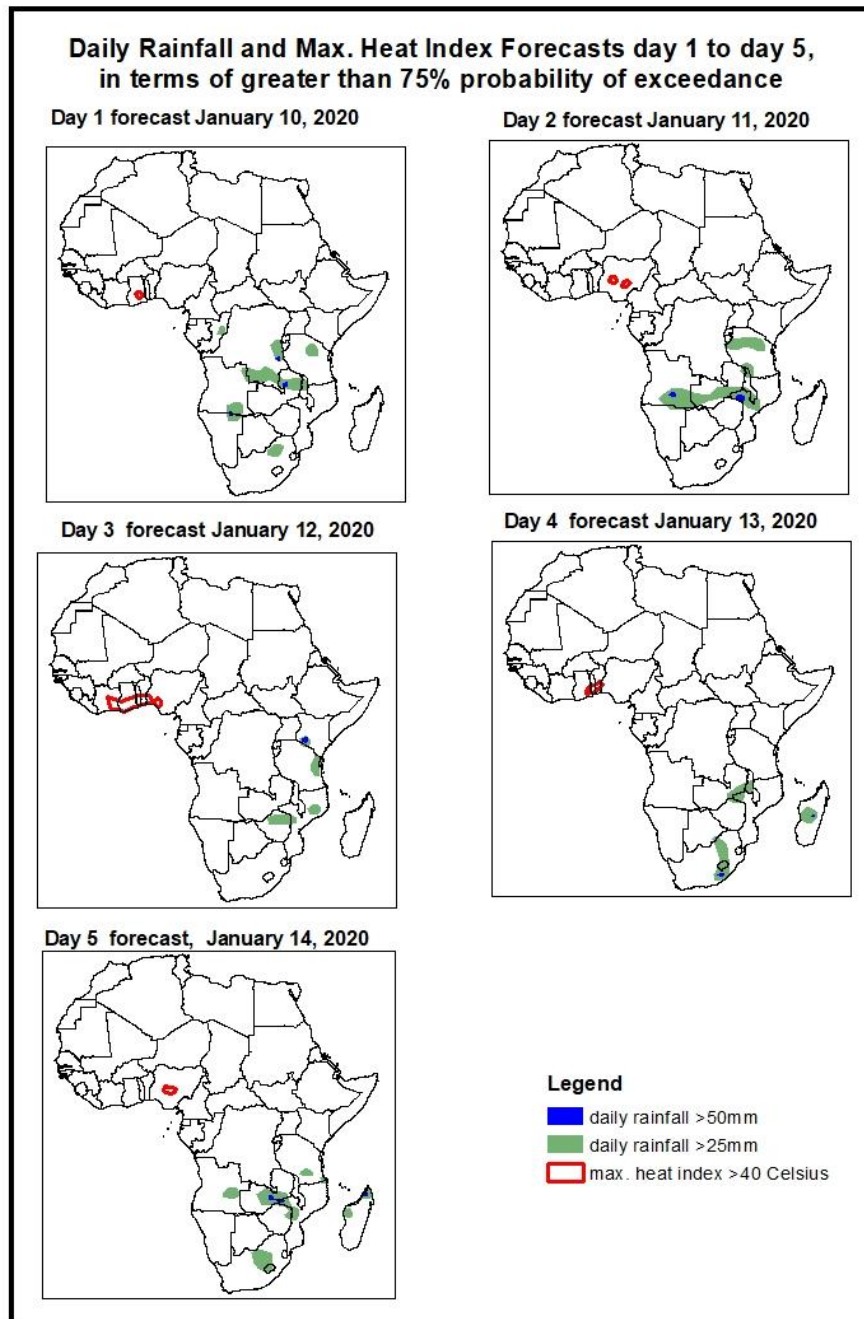


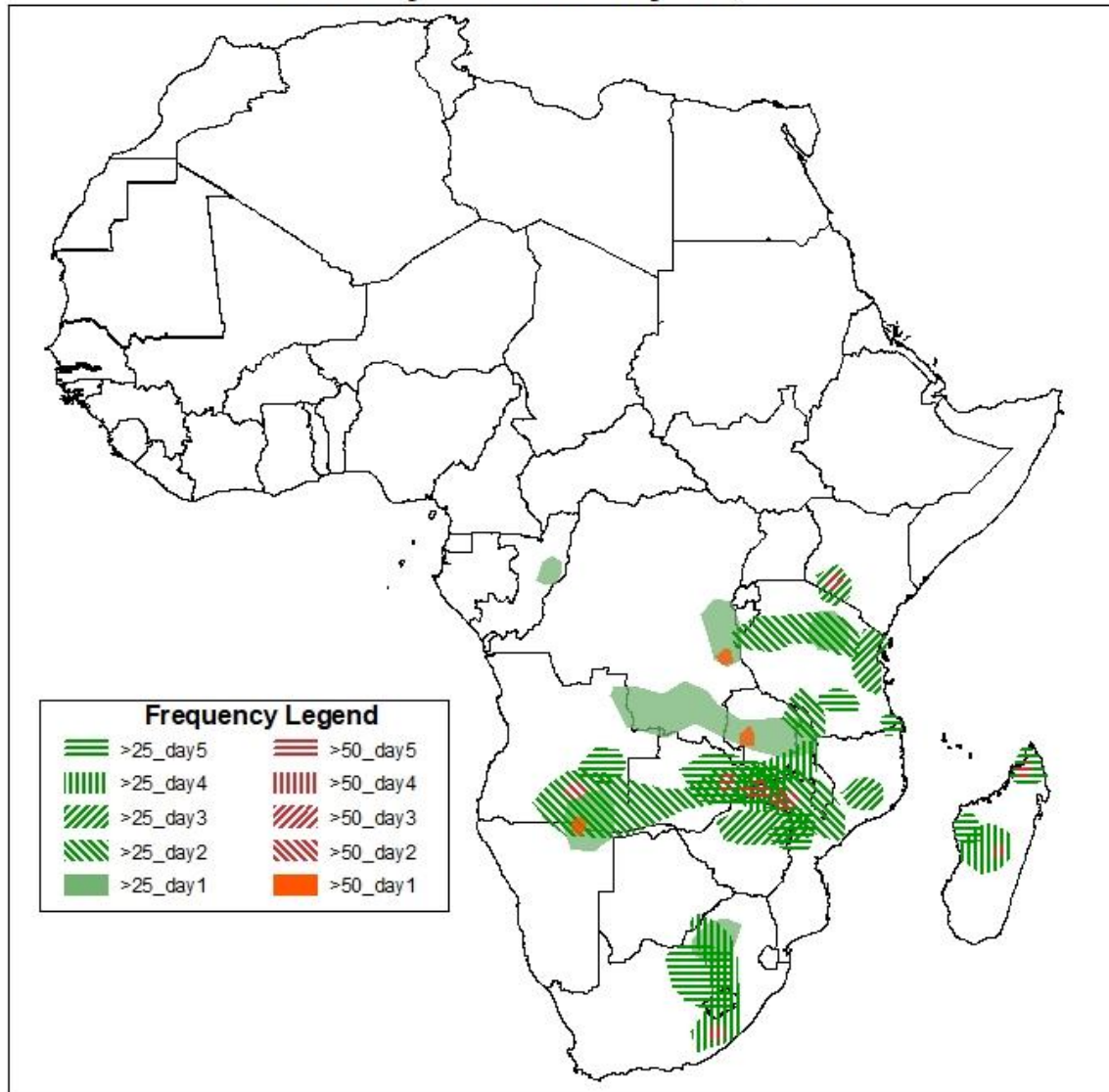
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on January 9, 2020)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: 10 Jan – 14 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 ($>40^{\circ}\text{C}$), based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



Five Days Rainfall Forecast Summary January 10 - January 14, 2020

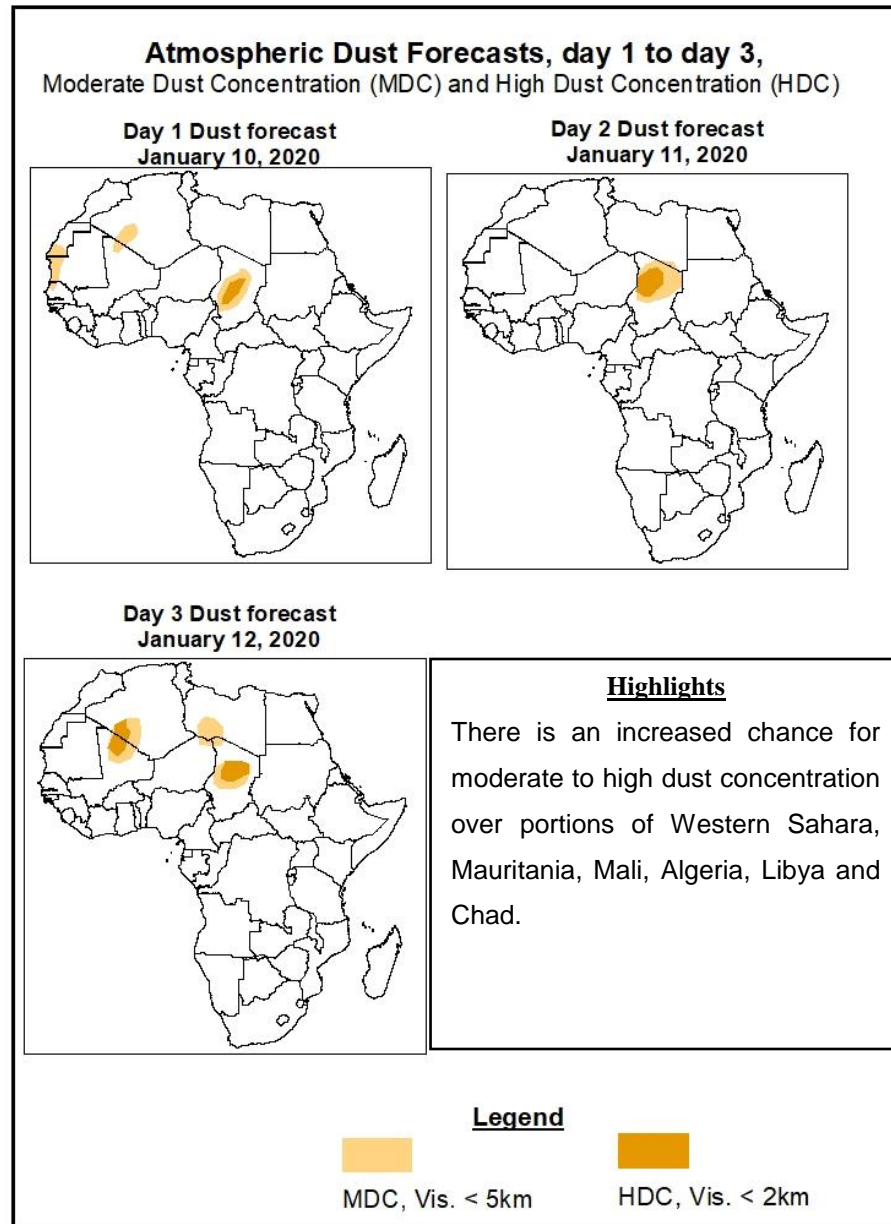


Highlights

- Strong lower-level wind convergences are expected to enhance rainfall over the northern portions of Southern Africa and the Lake Victoria region.
- At least 25mm for two or more days is likely over portions of Angola, parts of Tanzania, Zambia, and eastern South Africa.
- There is an increased likelihood for daily rainfall to exceed 50mm over local areas in DRC, Angola, Zambia, eastern South Africa and Madagascar.
- There is an increased chance for daily maximum heat index to exceed 40°C over local areas in Cote d'Ivoire, Ghana, Togo, Benin and Nigeria.

1.2. Atmospheric Dust Concentration Forecasts (valid: 10 Jan – 12 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: 10 January – 14 January 2020

The Azores High Pressure system over the Northeast Atlantic Ocean is expected to weaken while shifting eastwards, with its central pressure value decreasing from 1034hPa to 1026hPa during the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is to weaken slightly with its central pressure value decreasing from 1021hPa to 1019hPa during the forecast period.

The Mascarene High Pressure system over Southwest of Indian Ocean is expected to intensify slightly while shifting eastwards with its central pressure value increasing from 1026hPa to 1029hPa during the rest of the forecast period.

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

At 925-hPa level, strong dry and dusty northerly to northeasterly flow from the Sahara is expected to prevail across northern Sahel region and northwestern parts of Africa. Lower-level wind convergences are expected to remain active in the equatorial Africa region.

At 850-hPa level, lower level wind convergence is expected remain active in the equatorial Africa and the Lake Victoria regions. Lower-level cyclonic circulation associated with the Angola low is expected to remain active across eastern Angola and the neighboring areas.

Strong lower-level wind convergences are expected to enhance rainfall over the northern portions of Southern Africa and the Lake Victoria region. At least 25mm for two or more days is likely over portions of Angola, parts of Tanzania, Zambia, and eastern South Africa. There is an increased likelihood for daily rainfall to exceed 50mm over local areas in DRC, Angola, Zambia, eastern South Africa and Madagascar. There is an increased chance for daily maximum heat index to exceed 40°C over local areas in Cote d'Ivoire, Ghana, Togo, Benin and Nigeria.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (January 08, 2020)

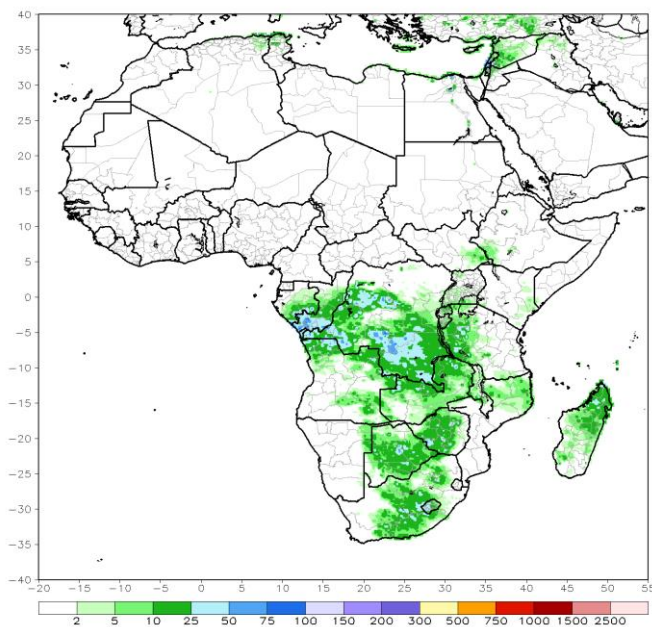
Daily rainfall amount exceeded 25mm over southern Congo, many parts of DRC, and local areas in Tanzania, Zambia, Botswana, Zimbabwe, South Africa and Madagascar. Daily rainfall totals exceeded 50mm over parts of southern Congo and local areas in DRC.

2.2. Weather assessment for the current day (January 09, 2020)

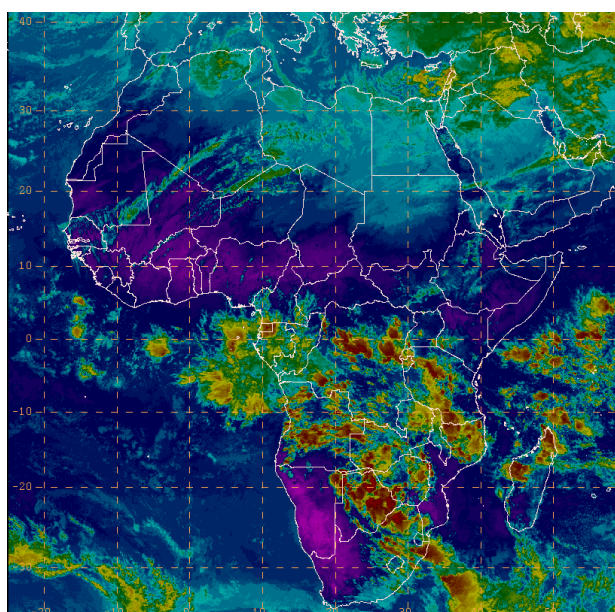
Deep convective clouds are observed over many places in Central and Southern Africa.

RFE2 Daily Total Rainfall (mm)

Period: 08Jan2020



IR Satellite Image (valid 1552 January 09, 2020)



Author: Musa SSEMUJU (CPC-African Desk/Uganda National Meteorological Authority)