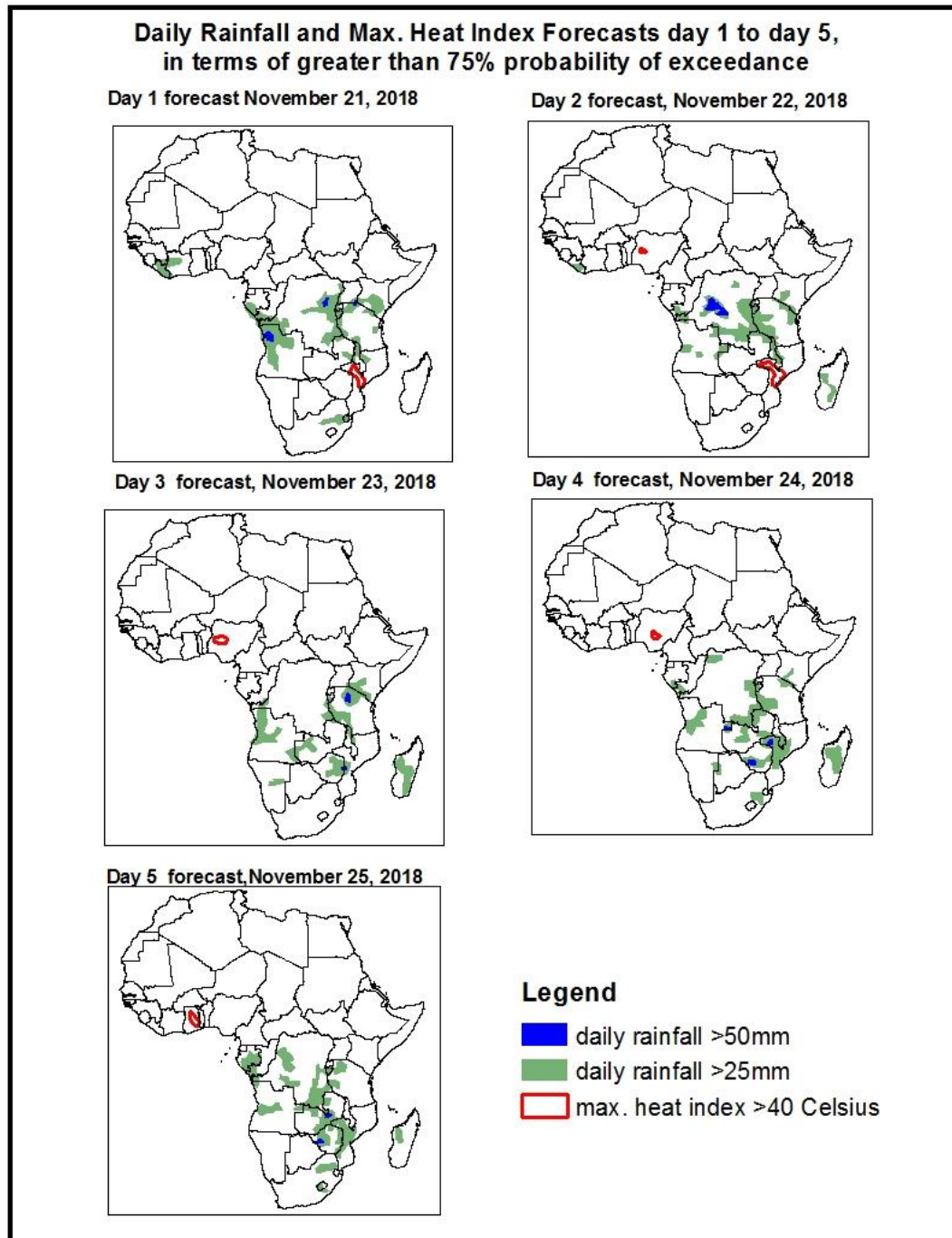


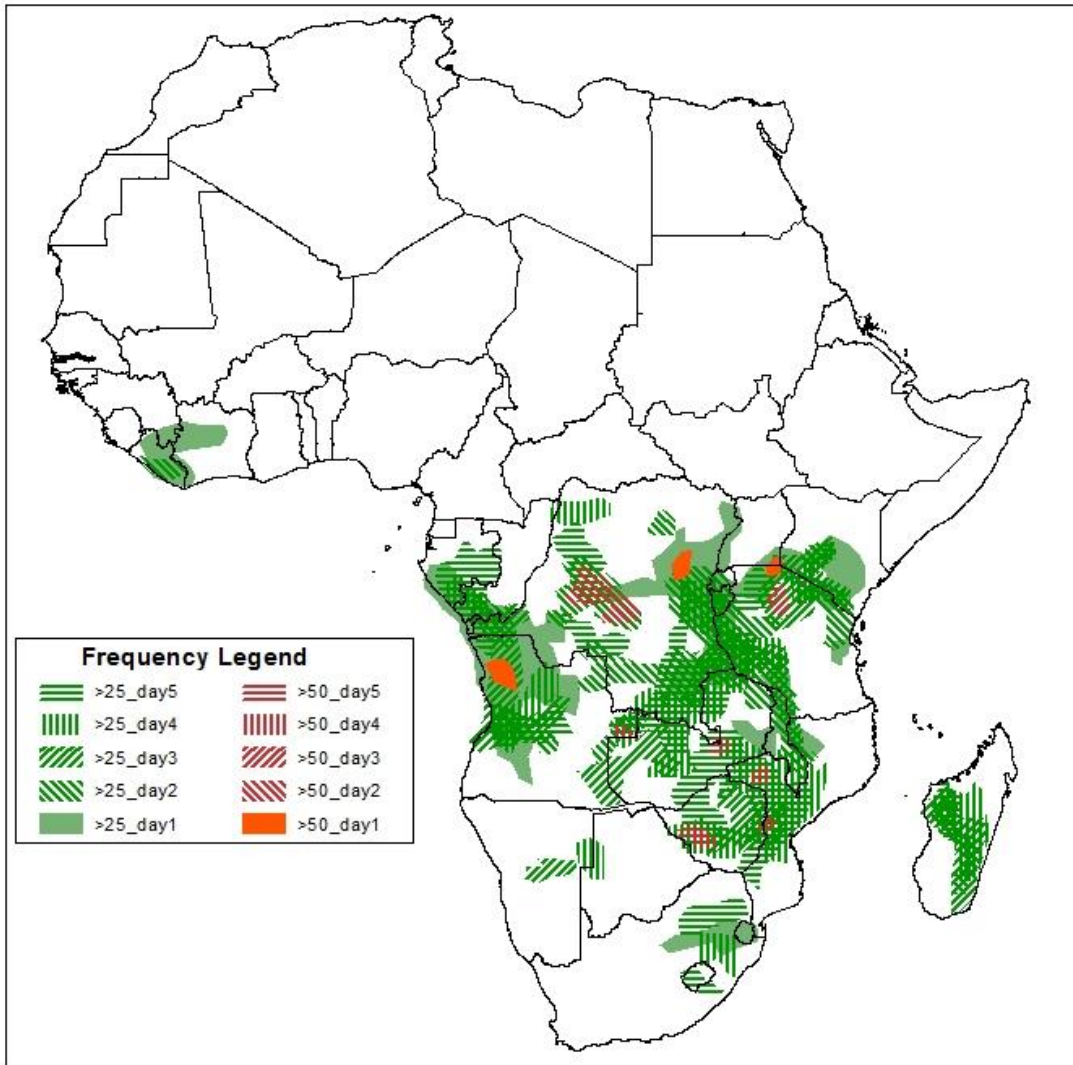
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on November 20, 2018)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Nov 21 - 25, 2018)

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 November , 2018.

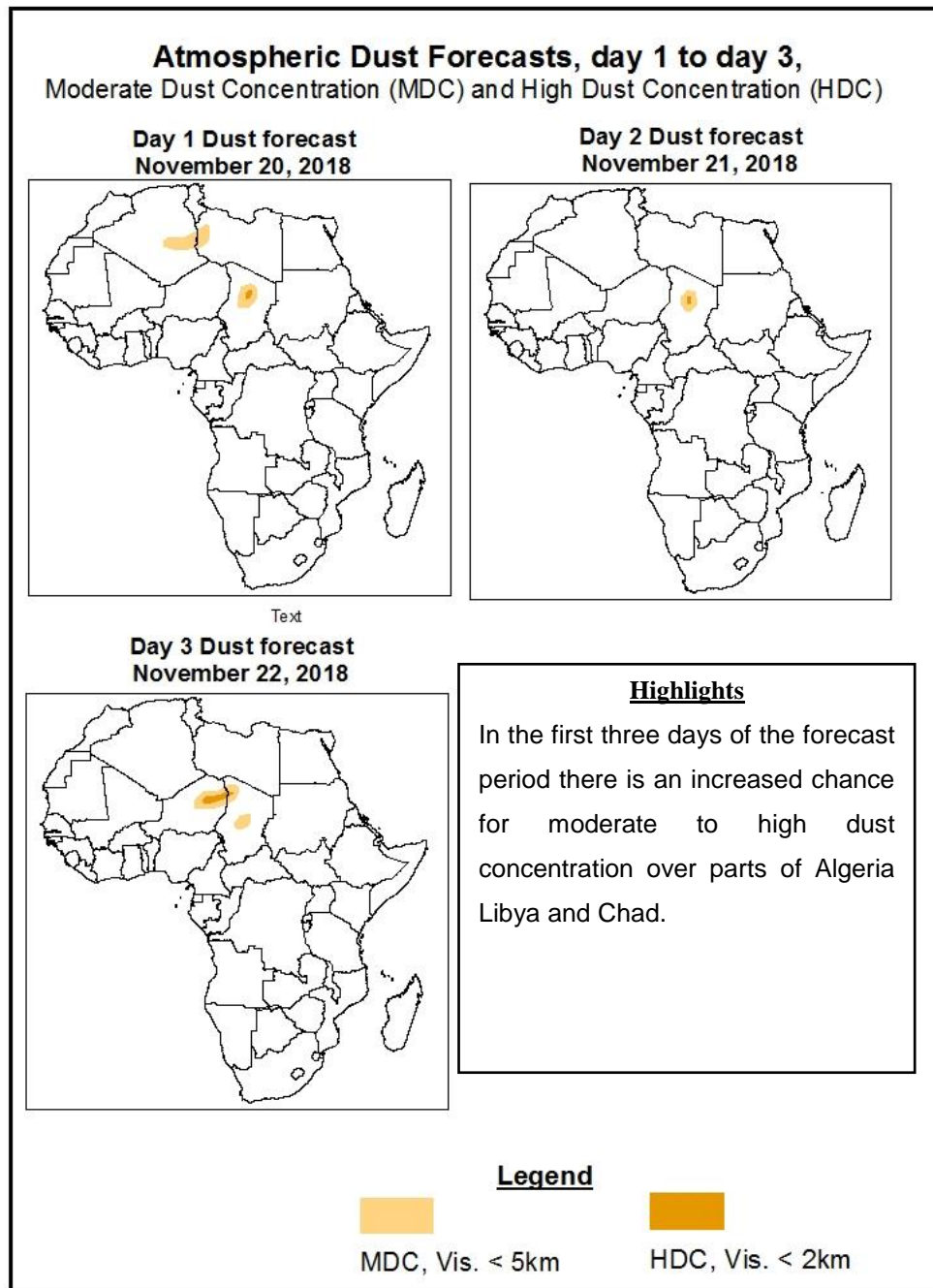


Highlights

- In the next five days the Congo Air Boundary (CAB) is expected to remain active over Central Africa and the northern parts of Southern African countries. The Southern Coastal low over South Africa is expected to maintain active weather Southern countries. In the next five days, there is a chance for moderate to heavy rainfall over localized areas of Central and Southern African countries.
- There is an increased chance for temperature heat index values to exceed 40⁰C over local areas of Ghana, Nigeria and Mozambique.

1.2. Atmospheric Dust Concentration Forecasts (valid: November 21 – 25, 2018)

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: November 21 – 25, 2018

The Azores High Pressure system over the North Atlantic Ocean is expected to relax its strength. Its central pressure value is expected to decrease from 1035hPa and 1024hPa through the forecast period.

The St. Helena High Pressure system over Southwest Atlantic Ocean is expected to relax its strength as it progresses eastwards towards the sub-continent. Its central pressure value is expected to decrease from 1028hPa to 1024hPa through the 72hours of the forecast period.

The Mascarene High Pressure system over Southwest Indian Ocean is expected to maintain its strength as it progresses eastward with its central pressure value fluctuating between 1031hPa to 1029hPa through the forecast period.

A low Pressure system over southern Africa is expected to maintain its position through the forecast period.

At 925hPa, strong northeasterly to easterly flow is expected to prevail over most parts of Northern Africa and the Sahel region. Moist and unstable Southwesterly to westerly winds are expected to weaken over parts of Gulf of Guinea but remain active over Central African countries. Also, Northeasterly flow over Southern and the Southeast of Africa.

At 850hPa, Lower-level wind convergence associated with the Congo air boundary (CAB) over parts of Central Africa. Lower-level wind convergence associated with the Costal low over parts of Southern Africa.

In the next five days the Congo Air Boundary (CAB) is expected to remain active over Central Africa and the northern parts of Southern African countries. The Southern Costal low over South Africa is expected to maintain active weather Southern countries. In the next five days, there is a chance for moderate to heavy rainfall over localized areas of Central and Southern African countries.

There is an increased chance for temperature heat index values to exceed 40⁰C over local areas of Ghana, Nigeria and Mozambique.

2.0. Previous and Current Day Weather over Africa

2.1. *Weather assessment for the previous day* (November 19, 2018)

Above 25mm daily rainfall was observed over localized areas of Cote D'Ivoire and Kenya.

2.2. *Weather assessment for the current day* (November 20, 2018)

Intense convective clouds are observed over some areas of Central African and southern African countries.

