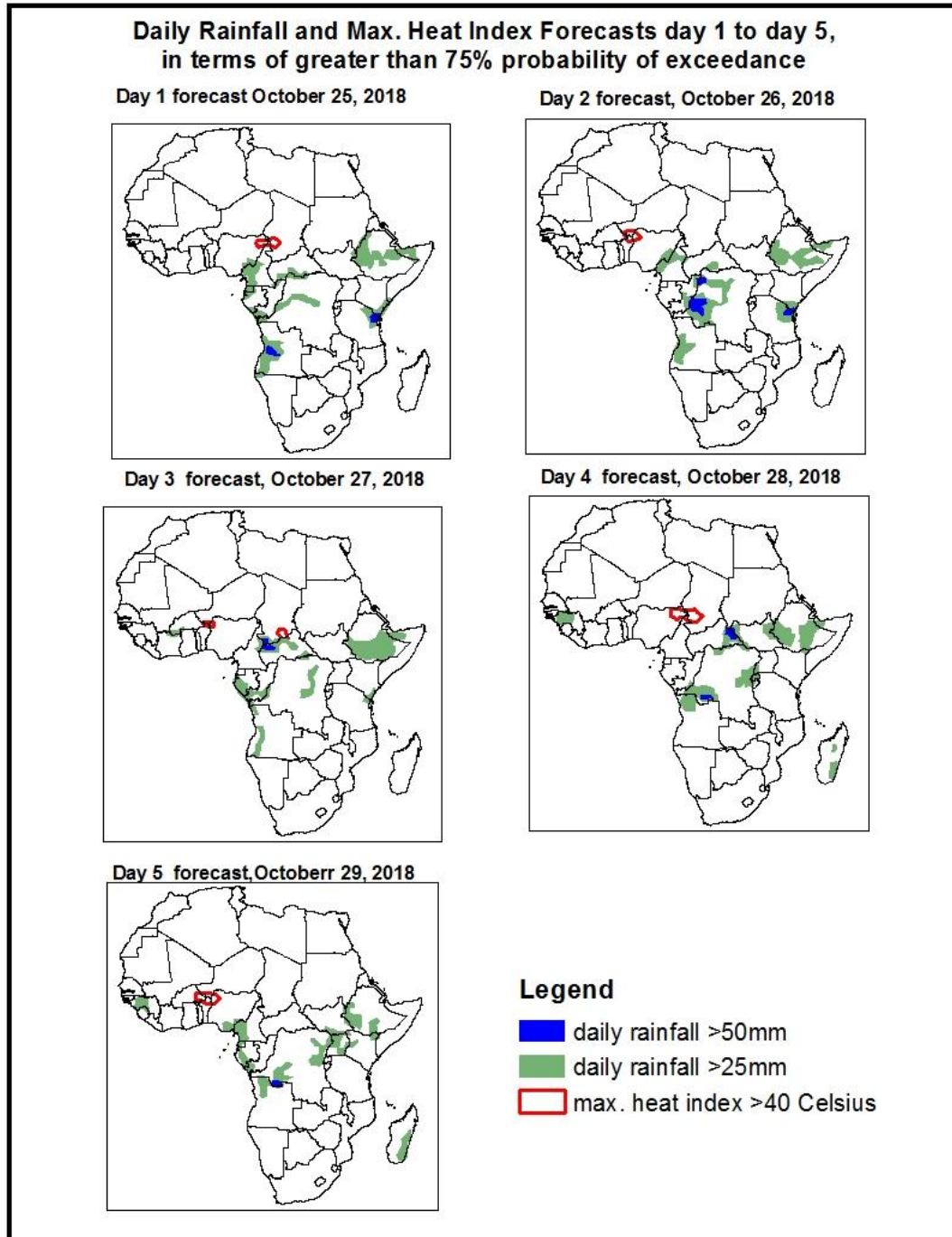


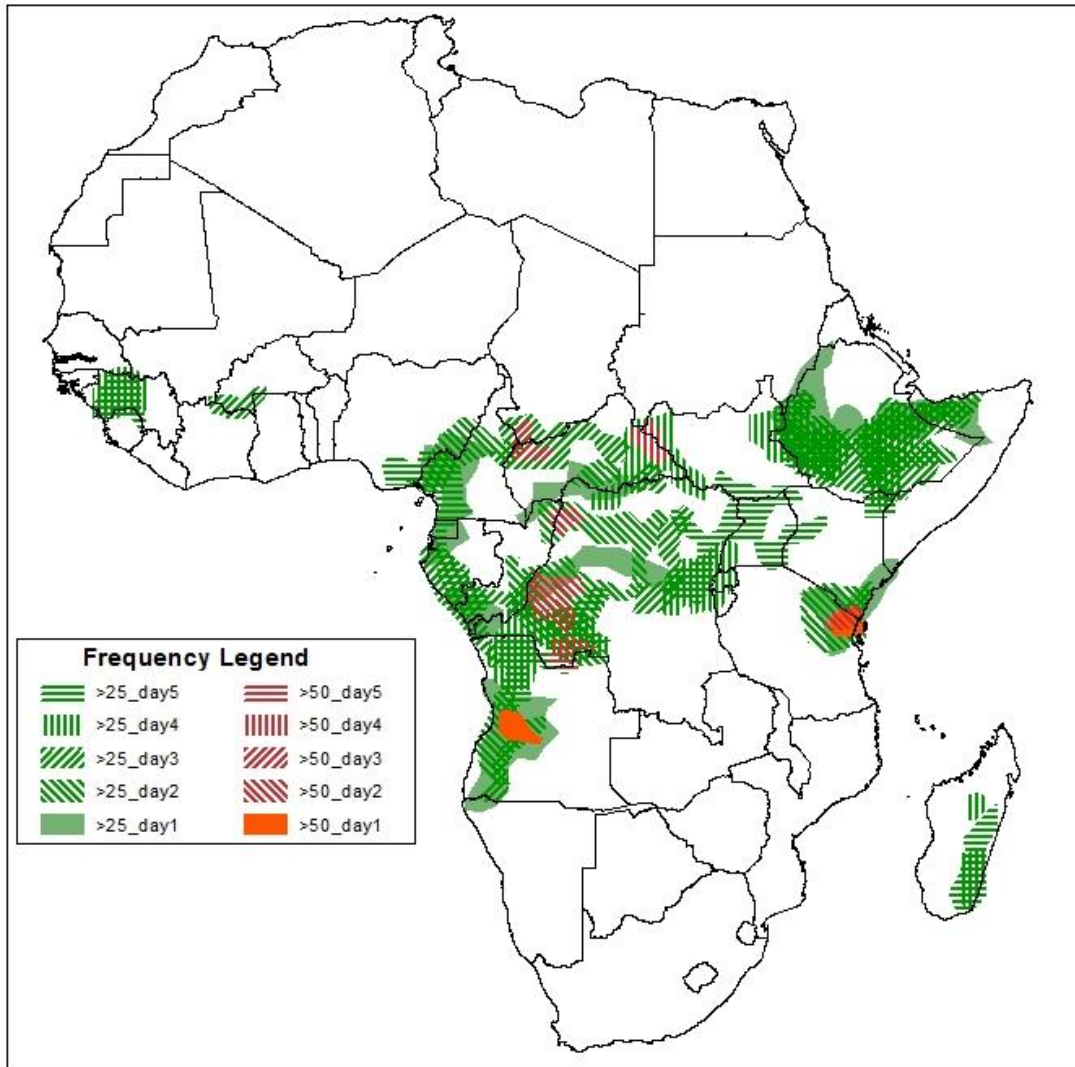
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on October 24, 2018)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Oct 25, –Oct 29, 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°C), based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



Five Days Rainfall Forecast Summary 25 - 29 October, 2018.

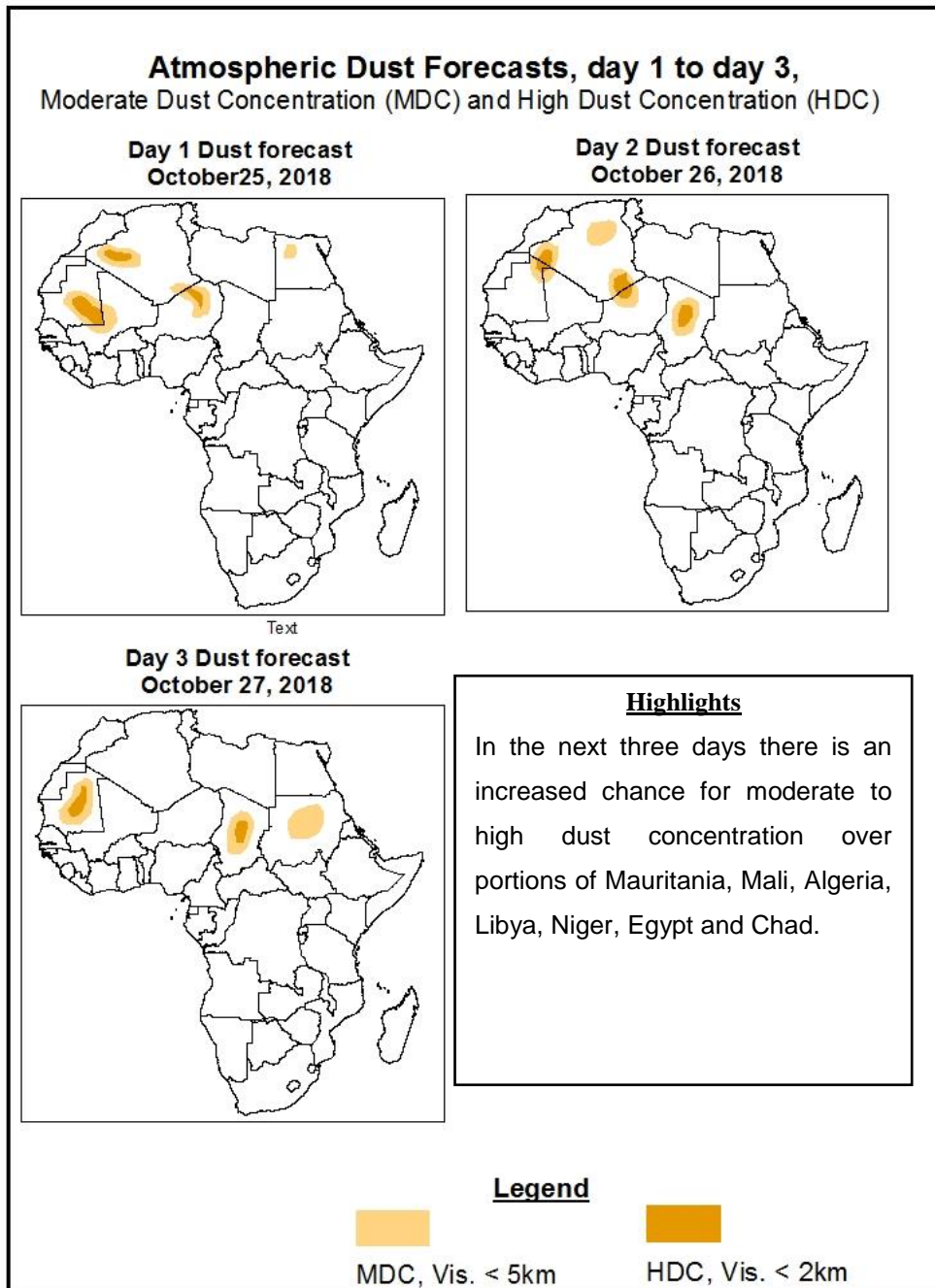


Highlights

- In the next five days stronger South easterlies to easterly flow from the Indian Ocean are likely to keep the Congo Air Boundary (CAB) over the west of its normal position. Lower level convergence in the Greater Horn of Africa is expected to maintain moderate rainfall in the region during the forecast period. There is an increased chance for 2 or more days of moderate to heavy rainfall over parts of Tanzania, Congo DR, Angola, and Republic of Central Africa.
- There is an increased chance for temperature heat index values to exceed 40⁰C over local areas of Niger, Burkina Faso, Benin, Nigeria and Chad.

1.2. Atmospheric Dust Concentration Forecasts (valid: Oct 25 – October 29, 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: October 25 –29 October, 2018

The Azores High Pressure system over the North Atlantic Ocean is expected to strengthen with its central pressure value expected to increase from 1034hPa to 1040hPa through the 96hrs of the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is moving towards the southern sub-continent. Its central pressure value is expected to increase from 1023hPa to 1026hPa through 48hrs. Towards the end of the forecast period a developing St Helena over the southwest of the Atlantic is expected to strengthen as it moves southeast.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to strengthen through 48hrs and start weakening as it progresses southeast of the Indian Ocean. Developing Mascarene high Pressure system over the Southwest Indian Ocean is expected to strengthen through the forecast period. Its central pressure value is expected to increase from 1029hPa to 1030hPa.

At 925hPa, strong northeasterly to easterly flow is expected to prevail over most parts of northern Africa, and some areas of the Sahel region. Southwesterly to westerly monsoon flow from the Atlantic Ocean is expected to remain weak. Moist Southeasterly to easterly flow from the Indian Ocean is expected to prevail over most parts of Eastern and southern Africa.

At 850hPa, lower-level wind convergence of northeasterly to easterly flow and Southeasterly to easterly flow is expected to remain active during the forecast period over the Greater Horn of Africa. Stronger easterlies from the Indian Ocean are likely to keep the Congo Air Boundary (CAB) over the west of its normal position.

In the next five days stronger South easterlies to easterly flow from the Indian Ocean are likely to keep the Congo Air Boundary (CAB) over the west of its normal position. Lower level convergence in the Greater Horn of Africa is expected to maintain moderate rainfall in the region during the forecast period. There is an increased chance for 2 or more days of moderate to heavy rainfall over parts of Tanzania, Congo DR, Angola, and Republic of

Central Africa. There is an increased chance for temperature heat index values to exceed 40°C over local areas of Niger, Burkina Faso, Benin, Nigeria and Chad.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (October 23, 2018)

Daily rainfall of above 25mm was observed over portion of Sudan and the western countries of central Africa.

2.2. Weather assessment for the current day (October 24, 2018)

Intense convective clouds are observed over Gulf of Guinea Coastal Areas, Central African countries and Greater Horn of Africa.

