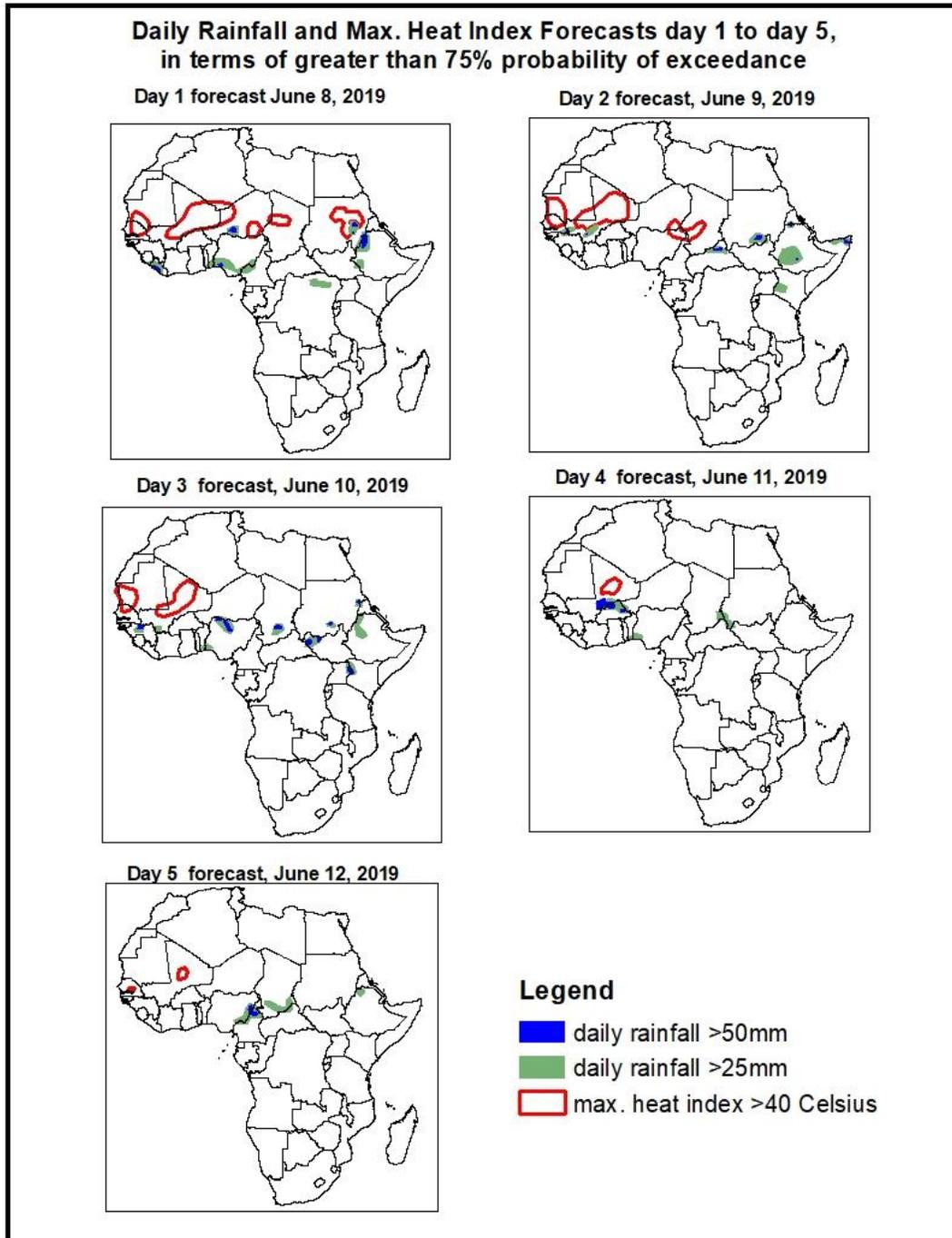


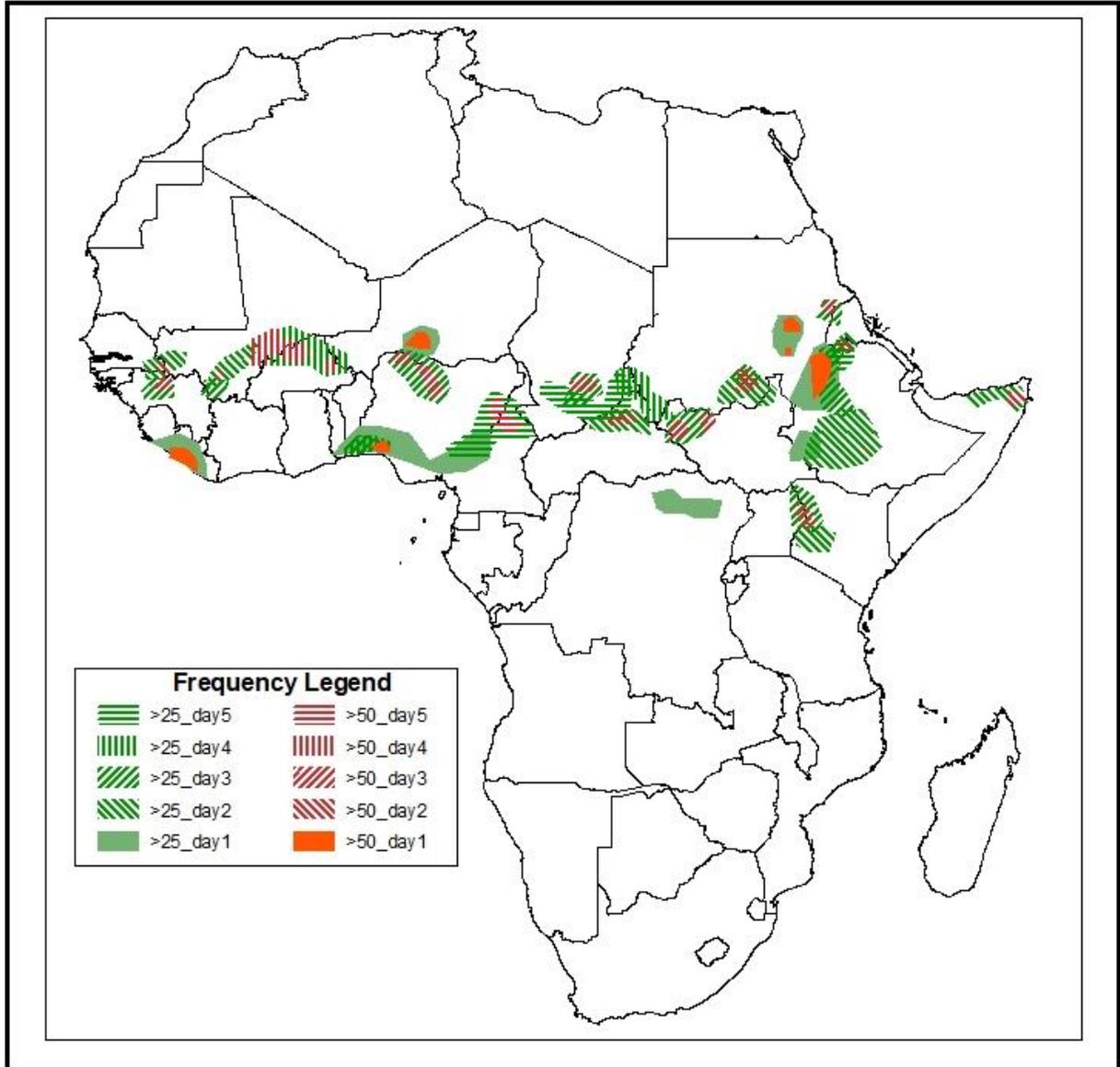
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on June 7, 2019)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: 8 – 12 June, 2019)

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 8 - 12 June, 2019

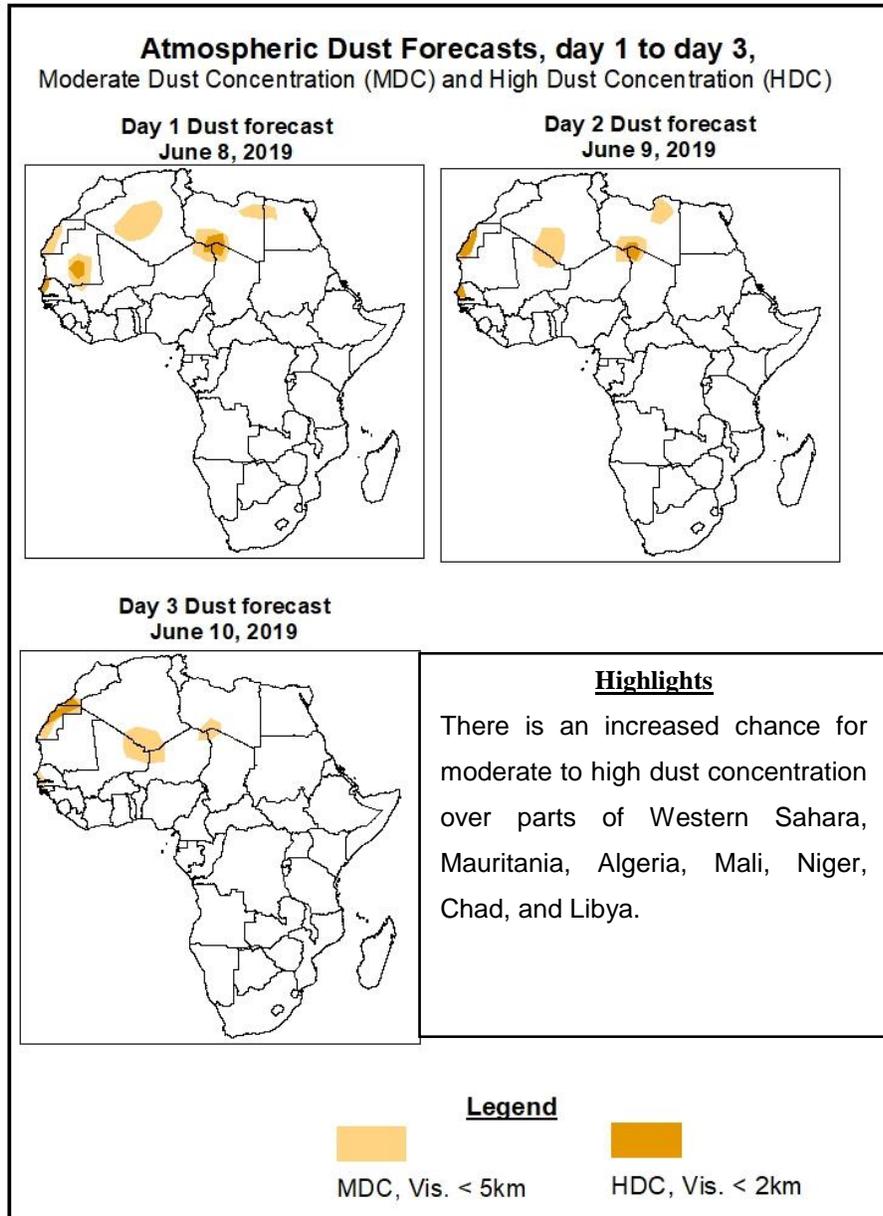


Highlights

- The monsoon flow from the Atlantic Ocean with its associated lower-level convergence, and westward propagating lower-level cyclonic circulation is expected to enhance rainfall over portions of the Sahel region.
- Lower-level wind convergences are expected to enhance rainfall across portions of the Greater Horn of Africa.
- At least 25mm for two or more days is likely over portions of the Gulf of Guinea, Sahel, and portions of the Greater Horn of Africa. There is an increased chance for daily rainfall to exceed 50mm over portions of Mali, Burkina Faso, Liberia, Nigeria, Cameroon, Chad, Sudan, Ethiopia, Eritrea and Somalia.
- There is an increased chance for daily maximum heat index to exceed 40°C over portions of the Sahel region.

1.2. Atmospheric Dust Concentration Forecasts (valid: 8 – 10 June 2019)

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: 8 – 12 June, 2019

The Azores High Pressure system over the Northeast Atlantic is expected to weaken slightly with its central pressure value decreasing from about 1030hpa to 1029hpa and stay just northwest of West Africa during the forecast period.

The St. Helena High Pressure system over Southeast Atlantic Ocean is expected to strengthen, with its central pressure value increasing from 1025hPa to 1032hPa during the forecast period.

The Mascarene High Pressure system over Southwest Indian Ocean is expected to weaken with its central pressure value decreasing from 1038hPa to 1032hPa during the forecast period.

At 925hPa level, strong dry northeasterly flow is expected to prevail across Northwest Africa and the Sahel region. In contrast, moist westerly flow from the Atlantic Ocean is expected to prevail across the Gulf of Guinea region, and the neighboring areas of Central Africa.

At 850hPa, lower-level wind convergences are expected to remain over much of the Sahel region. A cyclonic circulation over Mali is expected to propagate westwards into West Africa Coast during the forecast period. Another cyclonic circulation over Chad is expected to propagate westwards into Niger. Meridional wind convergence is expected to remain active in the Lake Victoria region during the forecast period.

At 700hPa, a trough in the easterlies is expected to propagate westwards gulf of Guinea countries . A cyclonic circulation in the Arabian Sea is expected to propagate into the Gulf of Aden during the forecast period.

The monsoon flow from the Atlantic Ocean with its associated lower-level convergence, and westward propagating lower-level cyclonic circulation is expected to enhance rainfall over portions of the Sahel region. Lower-level wind convergences are expected to enhance rainfall across portions of the Greater Horn of Africa. At least 25mm for two or more days is likely over portions of the Gulf of Guinea, Sahel, and portions of the Greater Horn of Africa. There

is an increased chance for daily rainfall to exceed 50mm over portions of Mali, Burkina Faso, Liberia, Nigeria, Cameroon, Chad, Sudan, Ethiopia, Eritrea and Somalia. There is an increased chance for daily maximum heat index to exceed 40°C over portions of the Sahel region.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (June 6, 2019)

Daily rainfall exceeded 50mm over parts of southern Chad, southern South Sudan and local areas in Ethiopia.

2.2. Weather assessment for the current day (June 7, 2019)

Deep convective clouds are observed over local areas in West and central Africa.

