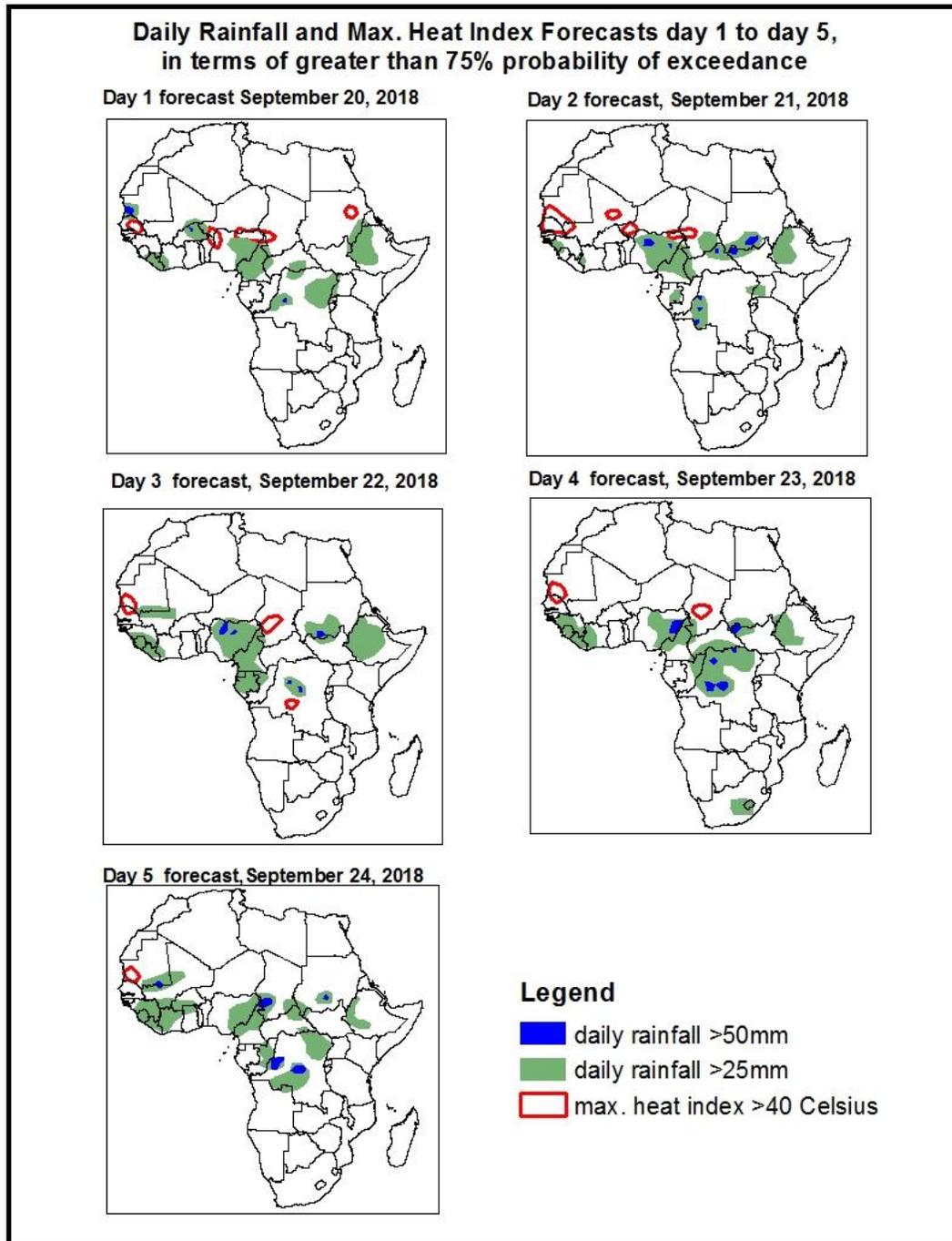


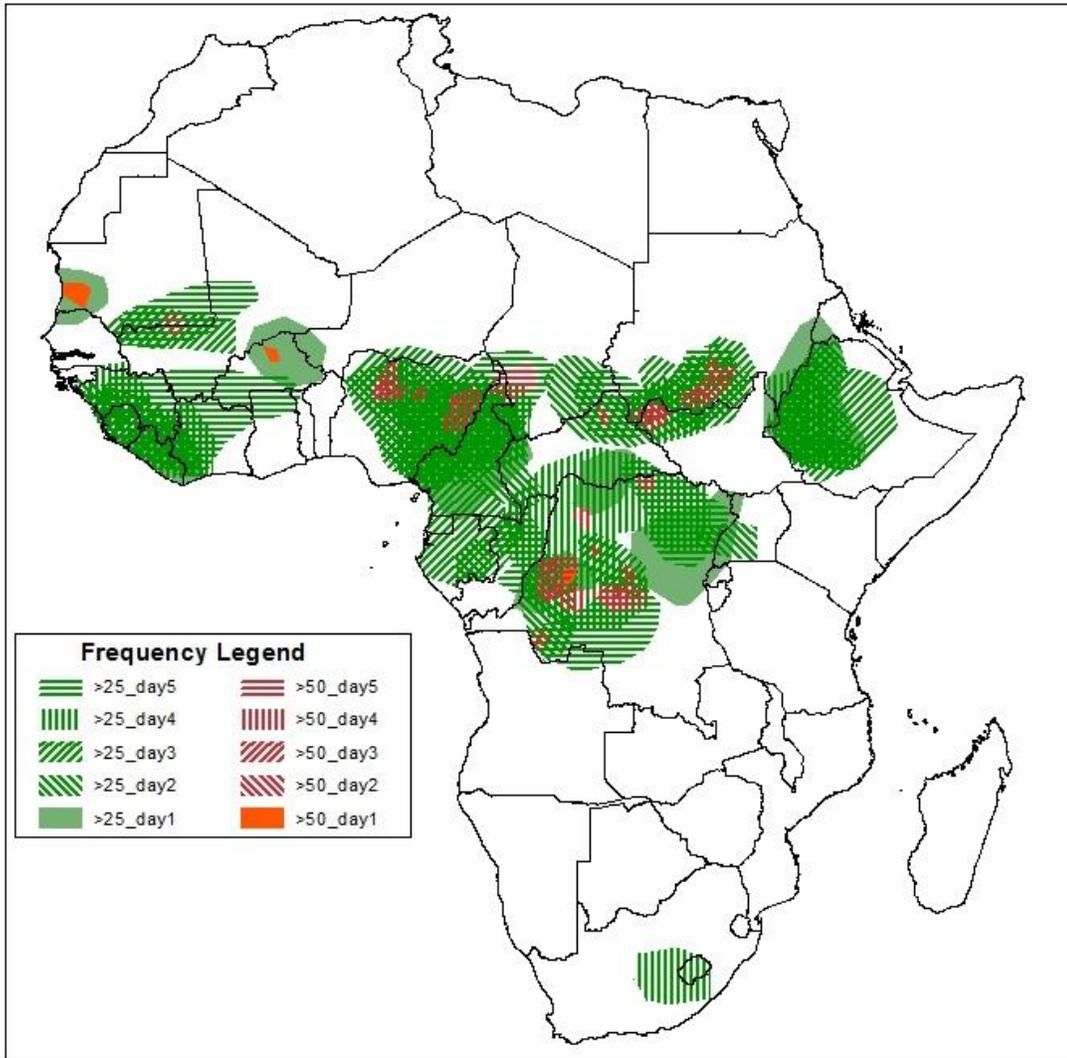
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on September 19, 2018)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Sep 20, – Sept 24, 2018)

The forecasts are expressed in terms of high probability of precipitation (POP) and high probability of maximum heat index, based on the NCEP/GFS and the NCEP Global Ensemble Forecasts System (GEFS) and expert assessment.



Five Days Rainfall Forecast Summary 20 - 24 September, 2018.

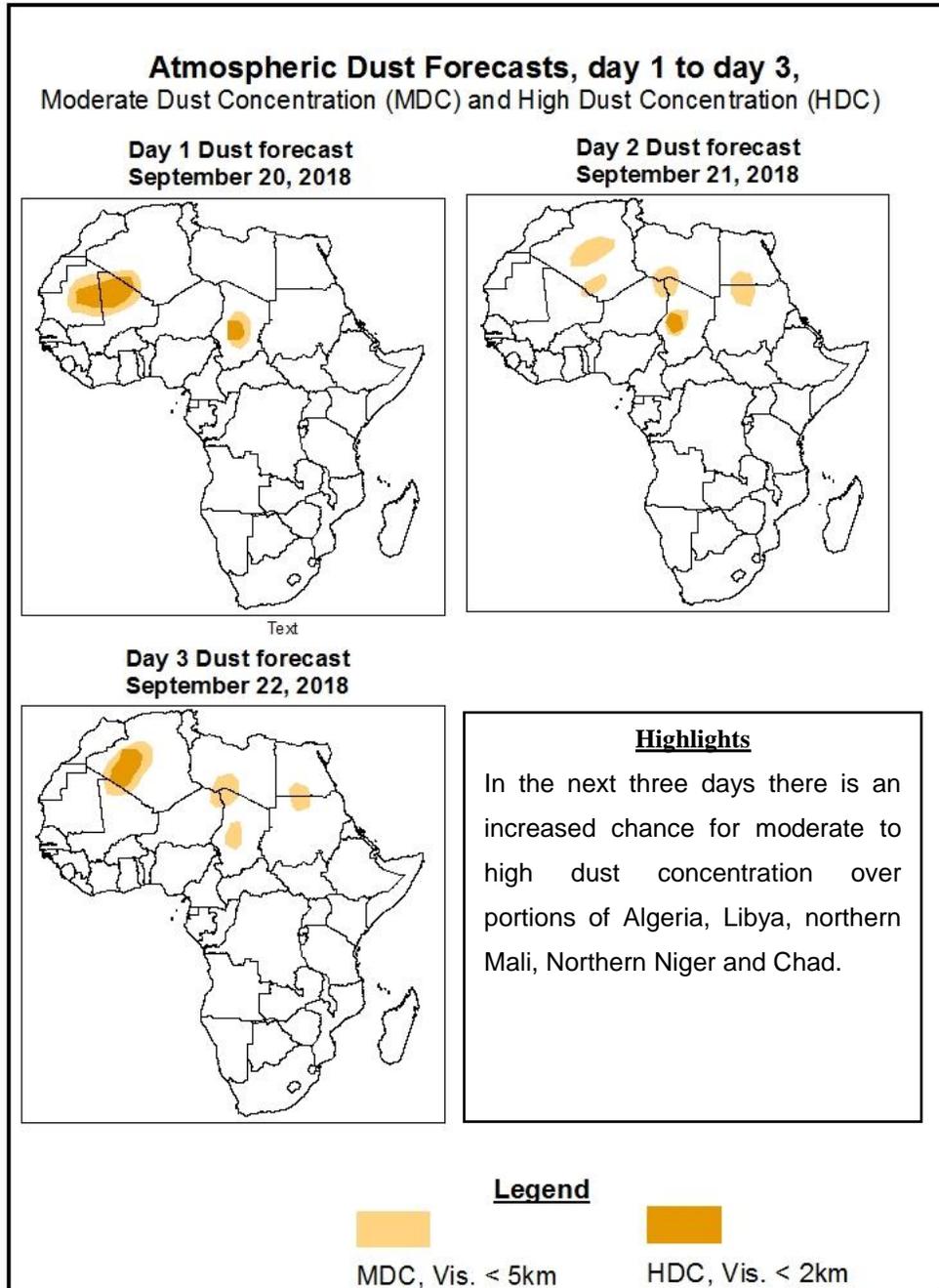


Highlights

- In the next five days, lower-level cyclonic systems across the Gulf of Guinea countries and localized lower-level wind convergences over Sahel region, active lower-level wind convergences in the Congo Basin, Sudan, and Ethiopia are expected to enhance rainfall.
- There is an increased chance for 2 or more days of moderate to heavy rainfall over portions of the Gulf of Guinea and the neighboring areas of the Sahel region, DRC, parts of Sudan, South Sudan, and Ethiopia.
- There is an increased chance for temperature heat index values to exceed 41⁰C over local areas in Senegal, Mauritania, Mali, Niger, Nigeria, Chad and DRC.

1.2. Atmospheric Dust Concentration Forecasts (valid: September 20 – September 22, 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: September 20 – September 24, 2018

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify significantly. Its central pressure value is expected to increase from 1022hPa to 1040hPa during the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to weaken significantly. Its central pressure value is expected to decrease from 1039hPa to 1024hPa through 120 hours.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to weaken gradually. Its central value is expected to decrease from 1029hPa to 1025hPa during the forecast period.

A thermal low over northern Mali and Mauritania is expected to deepen slightly. Its central pressure value is expected to decrease from 1009hPa to 1006hPa during the forecast period. A thermal low across Chad is expected to maintain an average central pressure value of 1008hPa during the forecast period.

At 925hPa, dry strong northeasterly to easterly flow is expected to prevail over Western Sahara, Mauritania, northern Mali, parts of Algeria, Chad, Libya, northern Niger, and portions of Egypt and Sudan . In contrast, moist southwesterly to westerly monsoon flow from the Atlantic Ocean is expected to remain active across much of the Gulf of Guinea countries.

At 850hPa, a cyclonic trough is expected to prevail across the Gulf of Guinea countries during the forecast period. Lower-level wind Convergence across portions of the Sahel region, Sudan and Ethiopia and meridional wind convergence in the Congo Basin are expected to remain active during the forecast period.

At 700-hPa, an area of strong easterly flow is expected to prevail across the Gulf of Guinea region, slightly weakening towards end of the forecast period.

In the next five days, lower-level cyclonic systems across the Gulf of Guinea countries and localized lower-level wind convergences over Sahel region, active lower-level wind convergences in the Congo Basin, Sudan, and Ethiopia are expected to enhance rainfall. There is an increased chance for 2 or more days of moderate to heavy rainfall over portions of the Gulf of Guinea and the neighboring areas of the Sahel region, DRC, parts of Sudan, South Sudan, and Ethiopia. There is an increased chance for temperature heat index values to exceed 41⁰C over local areas in Senegal, Mauritania, Mali, Niger, Nigeria, Chad and DRC.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (September 18, 2018)

Moderate to locally heavy rainfall was observed over parts of Algeria, Mauritania, Senegal, Gambia, Guinea, Sierra Leone, Liberia, Ghana, Togo, Benin, Nigeria, Congo, DRC, South Sudan and Sudan.

2.2. Weather assessment for the current day (September 19, 2018)

Intense convective clouds are observed over parts of Tunisia, Algeria, Mali, Niger, Nigeria, Cameroon, Chad, CAR, Gabon, Congo, Angola, DRC, Uganda, Tanzania, Kenya, South Sudan, Ethiopia and Eretria.

