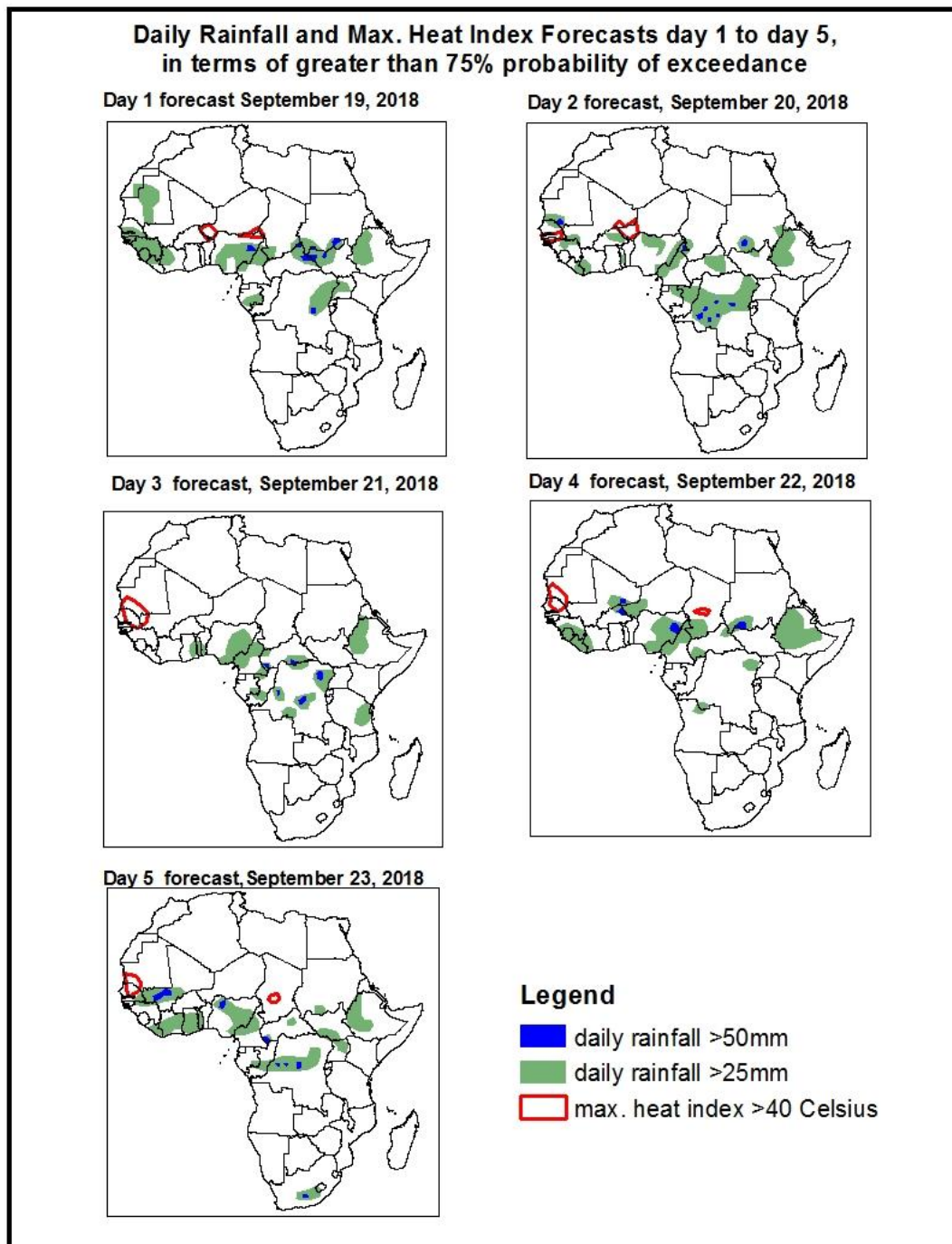


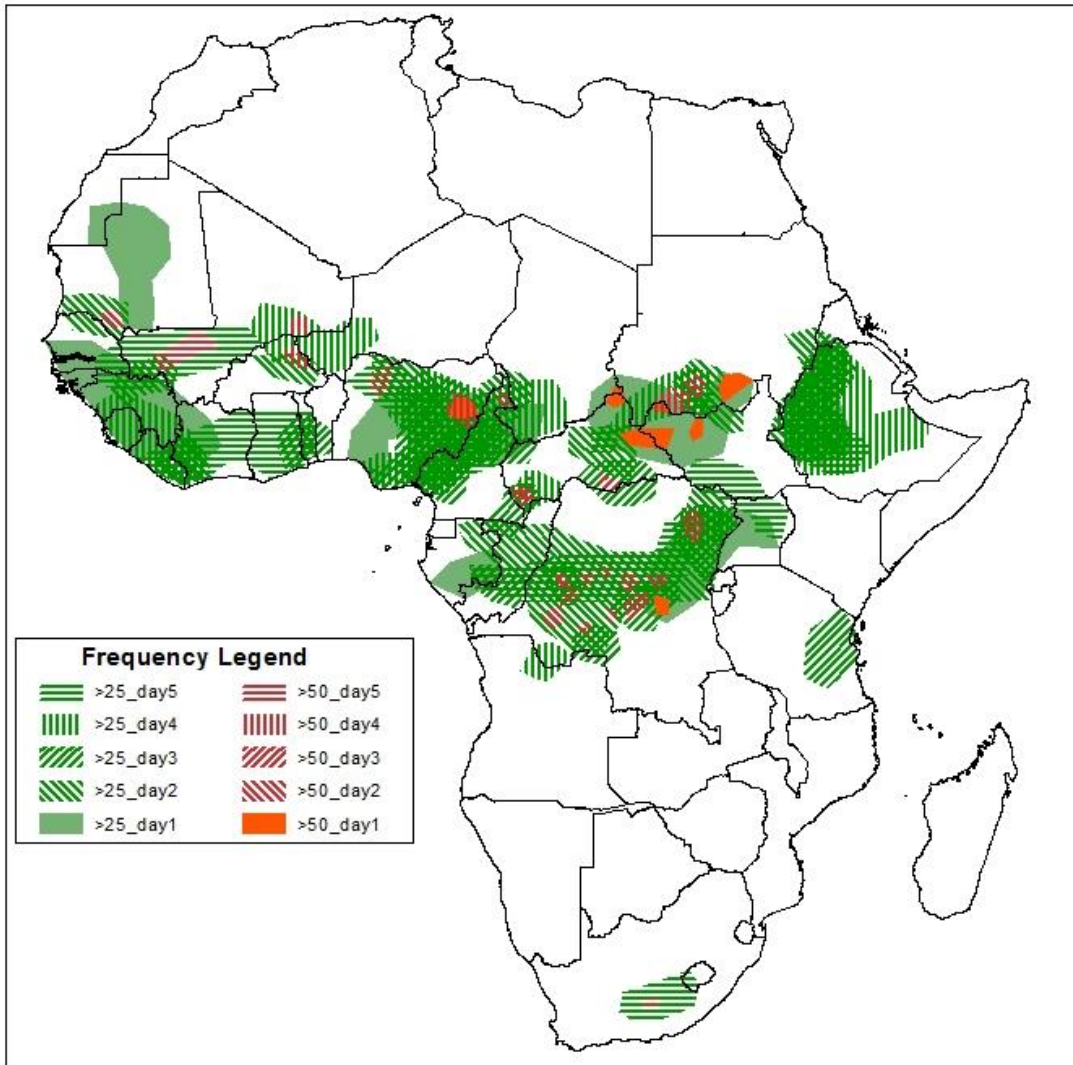
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on September 18, 2018)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Sep 19, – Sept 23, 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 19 - 23 September, 2018.

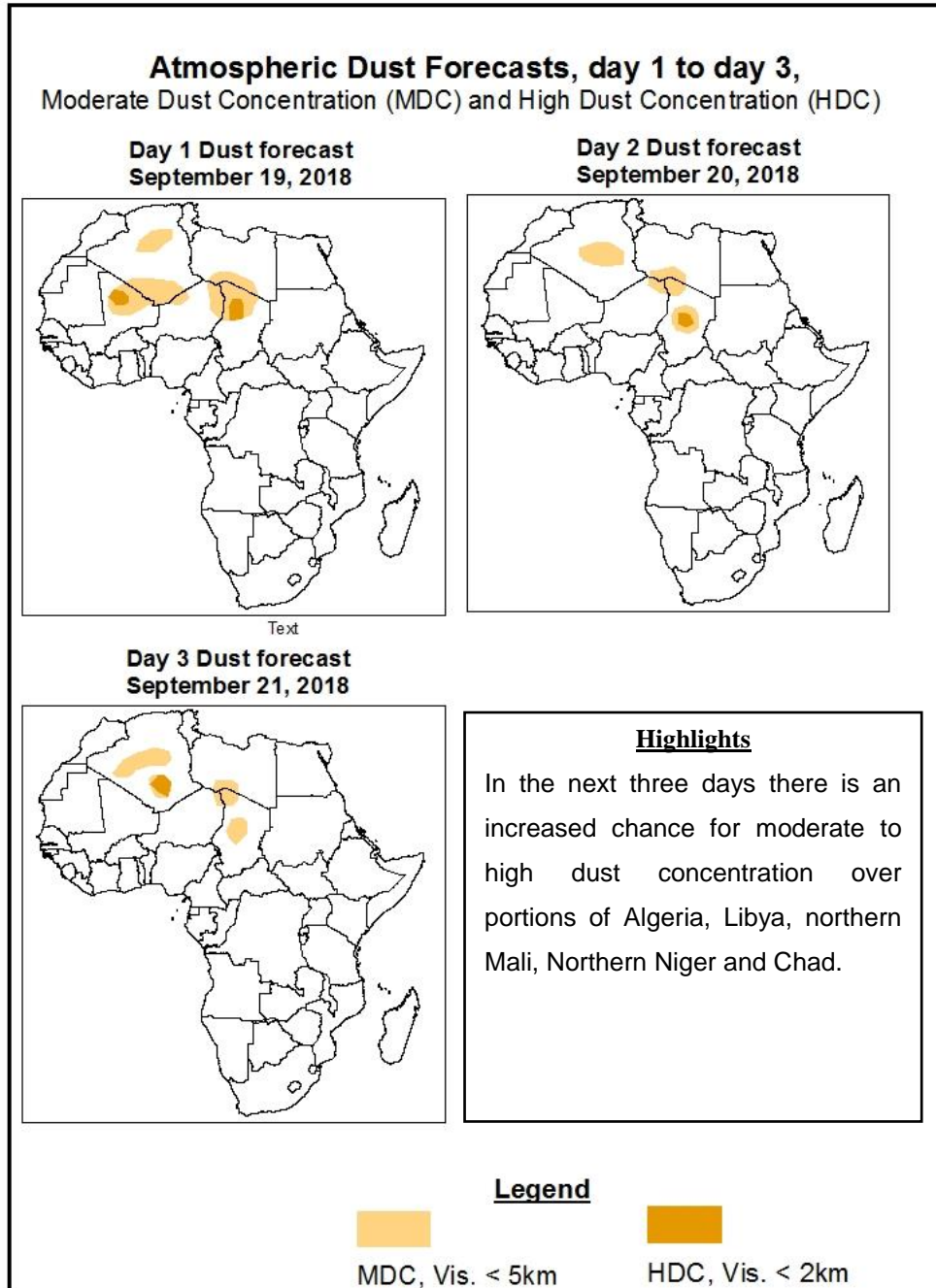


Highlights

- In the next five days, lower-level cyclonic systems across the Gulf of Guinea countries and localized lower-level wind convergences over parts of the Sahel region, active lower-level wind convergences in the Congo Basin, Sudan, South 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, Niger, Nigeria, and Chad.

1.2. Atmospheric Dust Concentration Forecasts (valid: September 19 – September 21, 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 19 – September 23, 2018

The Azores High Pressure system over the North Atlantic Ocean is expected to intensify slightly. Its central pressure value is expected to increase from 1021hPa to 1025hPa 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 1040hPa to 1027hPa 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 1032hPa to 1026hPa 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 1008hPa to 1005hPa 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 across the far western Gulf of Guinea countries is expected to leave the West Africa coast through 48 hours.

In the next five days, lower-level cyclonic systems across the Gulf of Guinea countries and localized lower-level wind convergences over parts of the Sahel region, active lower-level wind convergences in the Congo Basin, Sudan, South 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, Niger, Nigeria, and Chad.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (September 17, 2018)

Moderate to locally heavy rainfall was observed over parts of Morocco, Senegal, Gambia, Guinea, Sierra Leone, Liberia, Cote d'Ivoire, Nigeria, Cameroon, Chad and CAR.

2.2. Weather assessment for the current day (September 18, 2018)

Intense convective clouds are observed over parts of Tunisia, Mauritania, Mali, Guinea, Liberia, Cote d'Ivoire, Ghana, Nigeria, Cameroon, Chad, Equatorial Guinea, Gabon, Congo, CAR, DRC, Uganda, South Sudan, Sudan and Ethiopia.

