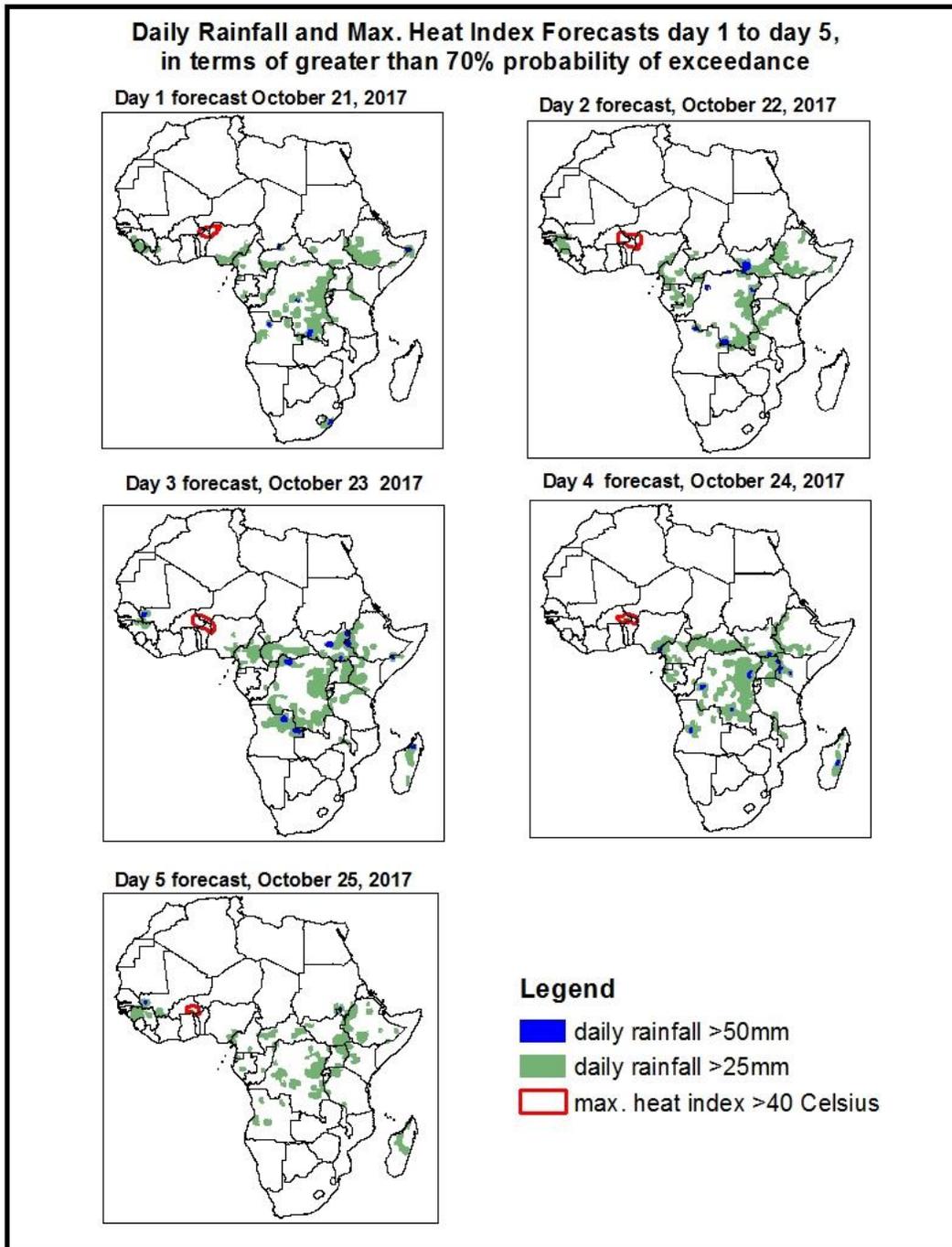


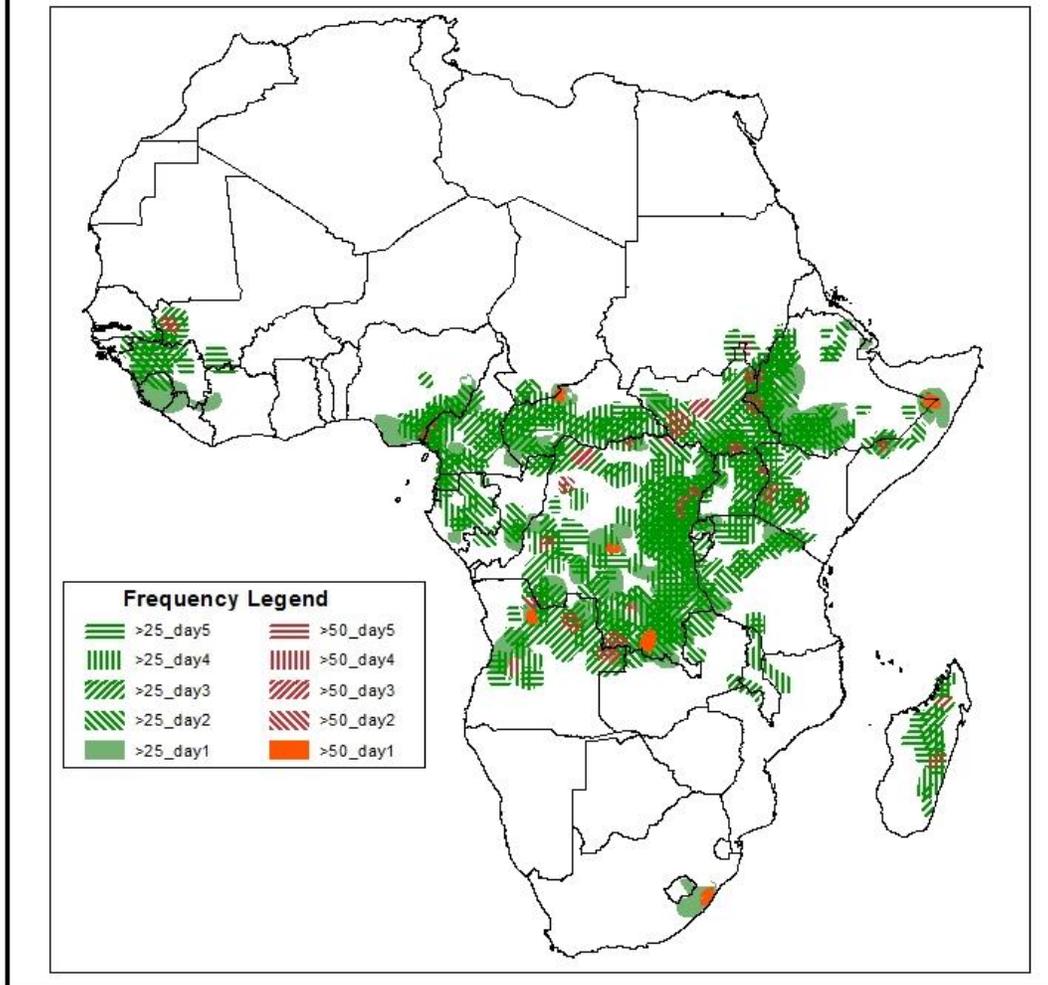
1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on Oct 20, 2017)

1.1. Daily Rainfall and Maximum Heat Index Forecasts (valid: Oct 21, –Oct 25, 2017)

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



Five Days Rainfall Forecast Summary October 21 - October 25 2017.

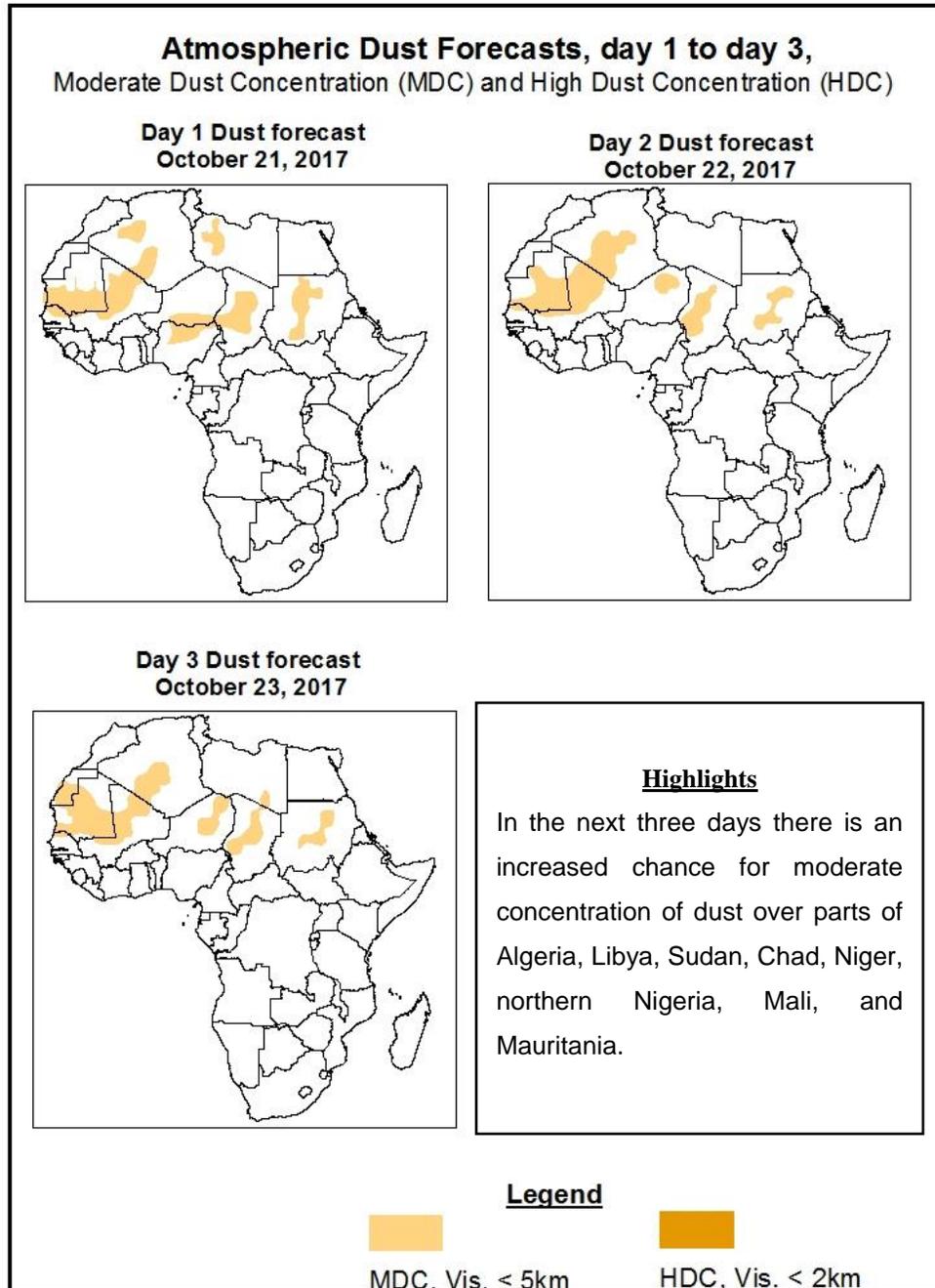


Highlights

In the next five days, active lower-level meridional convergence associated with the Congo air boundary (CAB) between the South Sudan to the southeast DRC and low level wind convergences in the far western Africa, the equatorial Africa and parts of Angola, Ethiopia and Madagascar are expected to enhance rainfall in the respective regions. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over many places in Guinea, southwestern Mali, southeastern of Nigeria, Cameroon, CAR, Equatorial Guinea, Gabon, central Congo, DRC, South Sudan, western Ethiopia, western Kenya, Uganda, western Tanzania, Burundi, Rwanda, northern Angola, Malawi, central Somalia and Madagascar.

1.2. Atmospheric Dust Concentration Forecasts (valid: Oct 21, – Oct 23, 2017)

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: Oct 21 – Oct 25, 2017

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken its central pressure value of 1031hpa to 1021hpa towards the end of the forecast period.

The St. Helena High Pressure system over the Southeast Atlantic Ocean is expected to weaken in the next 72hours its central pressure value of 1028hpa and intensify in next 48hours to 1036hpa and then intensify towards the end of the forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to maintain in the next 48hours its central pressure value of 1028hpa and then weaken to 1026hpa in next 48hours then intensify in the next 24hours to 1027hpa towards the end of the forecast period.

The heat low over western Sahel is expected to slightly deepen from its value of 1011hpa in the next 48hours to 1009hpa and maintain its value in the next 72hours towards the end of the forecast period.

Over the central Sahel, the heat low is expected to deepen from its value of 1012hpa in the next 24hours to 1010hpa and maintain its value in the 72hours towards the end of the forecast period.

Over the Sudan area, the heat low is expected to deepen from its value of 1010hpa in the next 24hours to 1009hpa and then maintain its value in the next 72hours towards the end of the forecast period.

At 925hPa, there is a convergence over West Africa and the Sudan area with some vortices developing over the west Sahel and the Sudan area which are dominated by the continental winds and are moving westward towards the end of the forecast period.

Another strong convergence is established over Angola to Namibia which traverse through DRC and extends to western Tanzania, Burundi, Rwanda and then to southern Sudan and moves slightly to east direction towards the end of the forecast period.

The dry north easterlies to easterly winds propagating from the subtropical high pressure system over North Africa sustained the spreading and transportation of the Saharan dust over northern Sudan, northern Chad, northern Niger, northern Mali and northern Mauritania.

At 850hPa, there is a convergence flow over West Africa with a low pressure system developing over the Central Sahel which is dominated by the continental winds and is propagating westward to the end of the forecast period.

There is another strong convergence over the southeastern DRC which traverse and extends to western Tanzania, Burundi, Rwanda and then to Uganda and is quasi-stationary towards the end of the forecast period.

In the next five days, active lower-level meridional convergence associated with the Congo air boundary (CAB) between the South Sudan to the southeast DRC and low level wind convergences in the far western Africa, the equatorial Africa and parts of Angola, Ethiopia and Madagascar are expected to enhance rainfall in the respective regions. As a result, there is an increased chance for two or more days of moderate to heavy rainfall over many places in Guinea, southwestern Mali, southeastern of Nigeria, Cameroon, CAR, Equatorial Guinea, Gabon, central Congo, DRC, South Sudan, western Ethiopia, western Kenya, Uganda, western Tanzania, Burundi, Rwanda, northern Angola, Malawi, central Somalia and Madagascar.

2.0. Previous and Current Day Weather over Africa

2.1. Weather assessment for the previous day (October 19, 2017)

Moderate to locally heavy rainfall was observed over Sierra Leone, Liberia, northwestern Mali, southern Ivory Coast, southern Nigeria, Cameroon, Equatorial Guinea, Gabon, Western CAR, DRC, Uganda, Rwanda, Burundi, Ethiopia, central Somalia, western Kenya, north Tanzania, and central Madagascar.

2.2. Weather assessment for the current day (October 20, 2017)

Intense convective clouds are observed over portions of West, Central and East Africa.

