

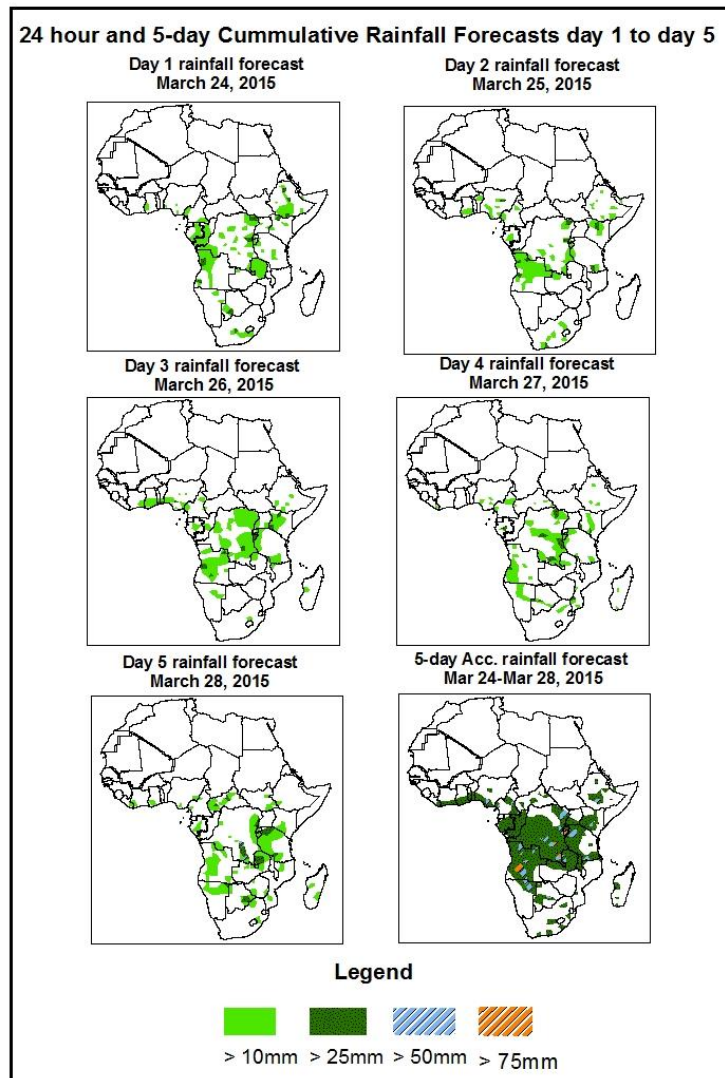


NCEP Contributions to the WMO Severe Weather Forecasting Demonstration Project (SWFDP) and to the African Monsoon Multidisciplinary Analysis (AMMA) Initiative

1. Rainfall Forecast: Valid 06Z of March 24 – 06Z of March 28, 2015. (Issued at 1800Z of March 23, 2015)

1.1. Twenty Four Hour Cumulative Rainfall Forecasts

The forecasts are expressed in terms of 75% probability of precipitation (POP) exceeded, based on the NCEP/GFS and the NCEP global ensemble forecasts system (GEFS) and expert assessment.

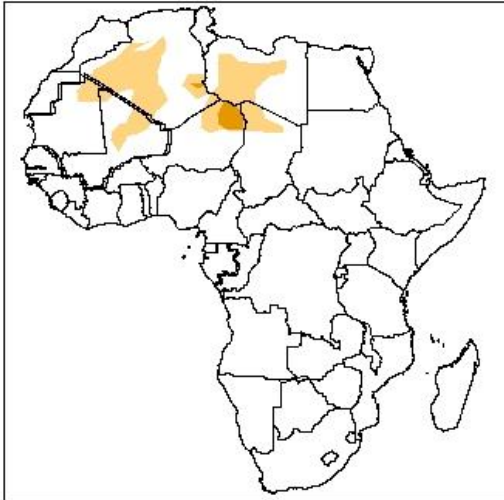


Summary

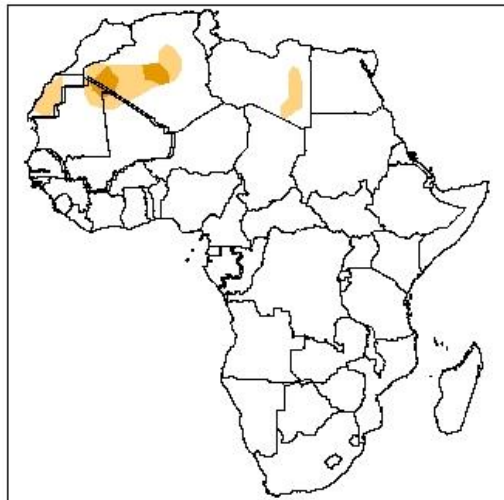
In the next five days, lower-level wind convergence in the region between Ghana and Namibia is expected to enhance rainfall in these regions. There is an increased chance for heavy rainfall over Ghana, DRC, Rwanda, Burundi, Namibia, Tanzania and Angola.

Atmospheric Dust Forecasts, day 1 to day 3,
Moderate Dust Concentration (MDC) and High Dust Concentration (HDC)

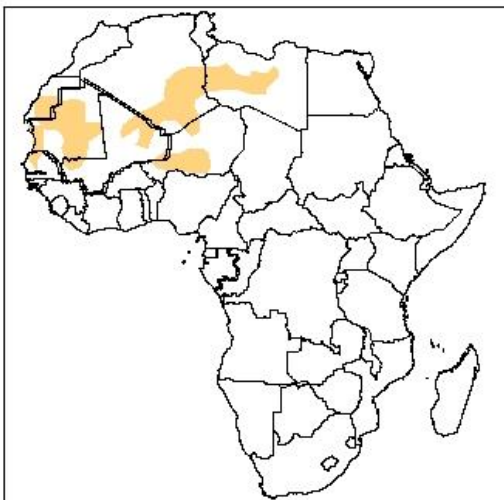
Day 1 Dust forecast
March 24, 2015



Day 2 Dust forecast
March 25, 2015



Day 3 Dust forecast
March 26, 2015



Highlights

There is an increased chance for moderate to high dust concentration over some parts of the Sahel, and North Africa countries, with highest dust concentration expected over some parts Algeria, Libya, Western Sahara, Mauritania and Niger.

Legend



MDC, Vis. < 5km



HDC, Vis. < 1km

1.2. Model Discussion: Valid from 00Z of March 24, 2015

The Azores high pressure system over the Northeast Atlantic Ocean is expected to weaken slightly from a central pressure value of 1032hpa in 24 hours to a value of 1031hpa in 120 hours, according to the GFS model.

The Arabian High Pressure system is expected to weaken from a central pressure value of 1023hpa in 24 hours to a central pressure value of 1021hpa in 120 hours, according to the GFS model.

The central pressure value of the Mascarene high pressure system over the southwestern Indian Ocean is expected to intensify from a value of 1022hpa in 24 hours to a value of 1026hpa in 120 hours, according to the GFS model.

The St Helena high pressure system over the Southeast Atlantic Ocean is expected to weaken from a central pressure value of 1022hpa in 24 hours to a central pressure value of 1020hpa in 120 hours, according to the GFS model.

At 925Hpa level, dry northeasterly to easterly wind (>20kts) is expected to prevail across much of the Sahel countries through 24 to 72 hours, and the intensity of the wind tends to weaken across the Northcentral and Northeastern regions of Africa, while remaining moderately strong across Northwestern Africa towards end of the forecast period.

At 850Hpa level, northeasterly wind is expected to prevail across Central and East African countries during the forecast period. Wind convergences are expected to remain active in Ghana, Nigeria, Namibia, DRC and Angola during the forecast period.

At 700hpa level, a trough associated with mid-latitude frontal system is expected to prevail across Northwest Africa. Divergence over West Africa and Southern African countries, North-easterly wind flow over east and central Africa is expected to prevail during the forecast period, according to the GFS model.

At 500Hpa, a trough associated with a mid-latitude frontal system is expected to prevail across eastern Mediterranean Sea. Divergence over West Africa, Greater Horn of Africa and Southern African Countries and Easterlies over east and central Africa will prevail in the region during the forecast period, according to the GFS model.

In the next five days, lower-level wind convergence in the region between Ghana and Namibia is expected to enhance rainfall in these regions. There is an increased chance for heavy rainfall over Ghana, DRC, Rwanda, Burundi, Namibia, Tanzania and Angola.

2.0. Previous and Current Day Weather Discussion over Africa

(March 22, 2015 – March 23, 2015)

2.1. Weather assessment for the previous day (March 22, 2015)

Moderate to heavy rainfall were observed across DRC, Equatorial Guinea, Rwanda, Burundi, Uganda, Ethiopia, Angola, Namibia, South Africa, Kenya and Tanzania.

2.2. Weather assessment for the current day (March 23, 2015)

Intense convective deep clouds are observed over DRC, Angola, Cameroon, Rwanda, Burundi, Uganda, Congo Brazzaville, Ethiopia, Namibia and Madagascar.

