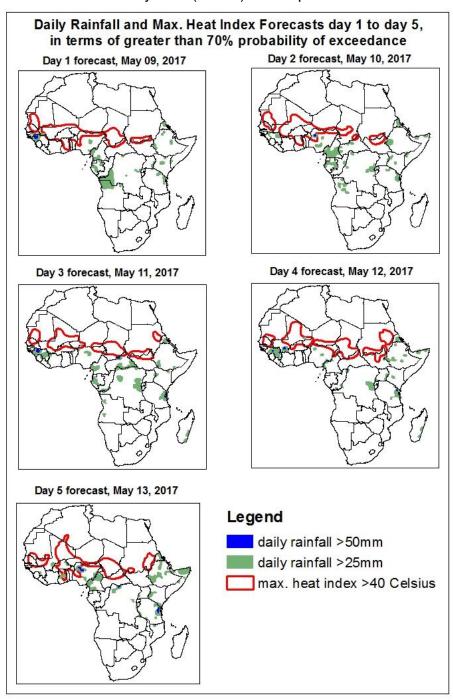
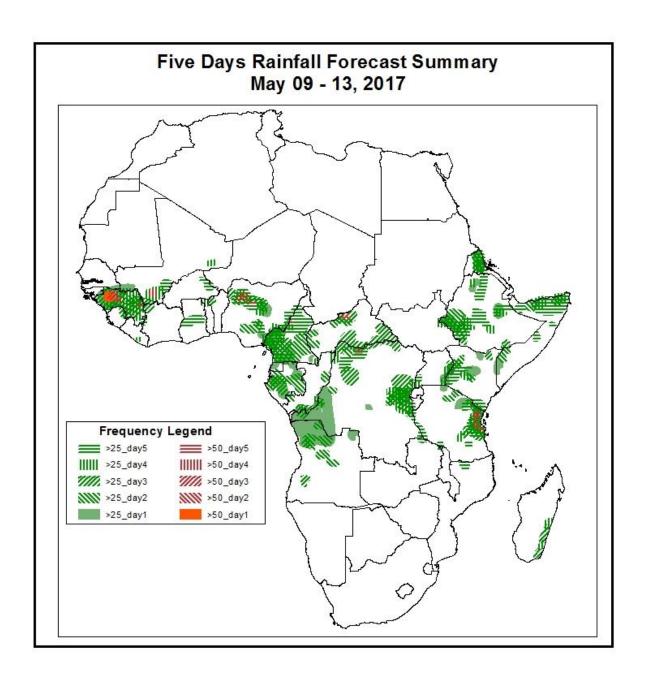
# 1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 08, 2017)

## **1.1. Daily Rainfall and Maximum Heat Index Forecasts** (valid: May 09 – 13, 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.



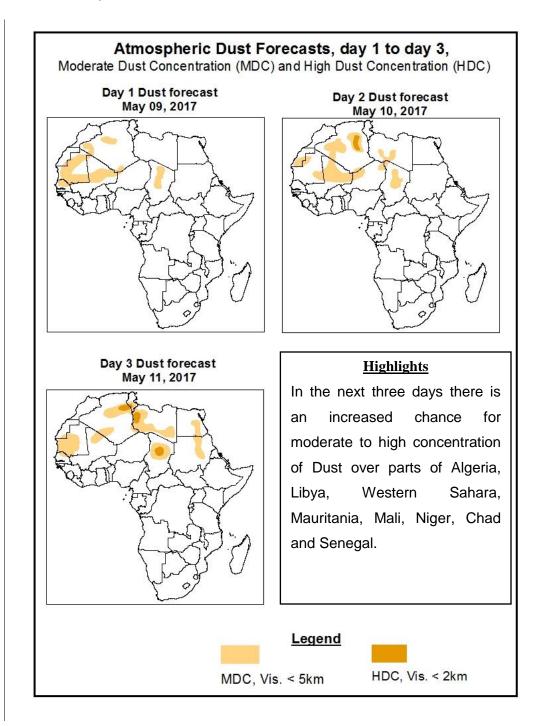


# <u>Highlights</u>

In the next five days, lower level wind convergences across the Central and South African countries are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Eritrea, Guinea, Cameroon, Gabon, Ethiopia and local areas of Mali, Nigeria, Equatorial Guinea, Congo, CAR, DRC, Somalia, Uganda, Kenya, Tanzania, Burundi, Angola and Madagascar.

# **1.2. Atmospheric Dust Concentration Forecasts** (valid: May 09 – 11, 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: May 09 – 13, 2017

The Azores High Pressure system over the North Atlantic Ocean is expected to weaken with its value of the central pressure decreasing from 1024hPa to 1019hPa during the next 96 hours and intensify to 1021hPa during the remaining forecast period.

The St. Helena High Pressure system over the Southeast of the Atlantic Ocean is expected to weaken with its value of the central pressure decreasing from 1023hPa to 1022hPa during the next 48 hours, intensify to 1037hPa during the next 96 hours and weaken to 1022hPa during the remaining forecast period.

The Mascarene High Pressure system over the Southwest Indian Ocean is expected to intensify with its value of the central pressure increasing from 1032hPa to 1037hPa during the next 72 hours and weaken to 1034hPa during the remaining forecast period.

At 925hPa, strong dry Northeasterly to Easterly winds may lead from light to moderate dust concentration over parts of Tunisia, Algeria, Libya, Egypt, Western Sahara, Mauritania, Mali, Niger, Chad, Sudan and Senegal.

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Tanzania, Angola, Namibia, Zimbabwe, Mozambique and South Africa.

In the next five days, lower level wind convergences across the Central and South African countries are expected to enhance rainfall in their respective regions. Therefore, there is an increased chance for two or more days of moderate to heavy rainfall over portions of Eritrea, Guinea, Cameroon, Gabon, Ethiopia and local areas of Mali, Nigeria, Equatorial Guinea, Congo, CAR, DRC, Somalia, Uganda, Kenya, Tanzania, Burundi, Angola and Madagascar.

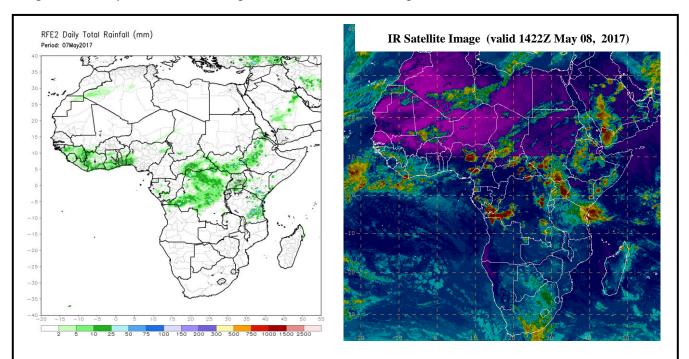
## 2.0. Previous and Current Day Weather over Africa

## **2.1. Weather assessment for the previous day** (May 07, 2017)

Light to moderate rainfall was observed over portions of Eritrea, Guinea, Liberia, Cote d'Ivoire, Togo, Benin, Nigeria, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Tanzania and Angola.

## **2.2. Weather assessment for the current day** (May 08, 2017)

Intense convective clouds are observed over portions of Eritrea, Liberia, Cote d'Ivoire, Ghana, Nigeria, Cameroon, Gabon, Congo, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Tanzania, Angola, Zambia and Madagascar.



Previous day rainfall condition over Africa (Left) based on the NCEP CPCE/RFE and current day cloud cover (right) based on IR Satellite image.

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