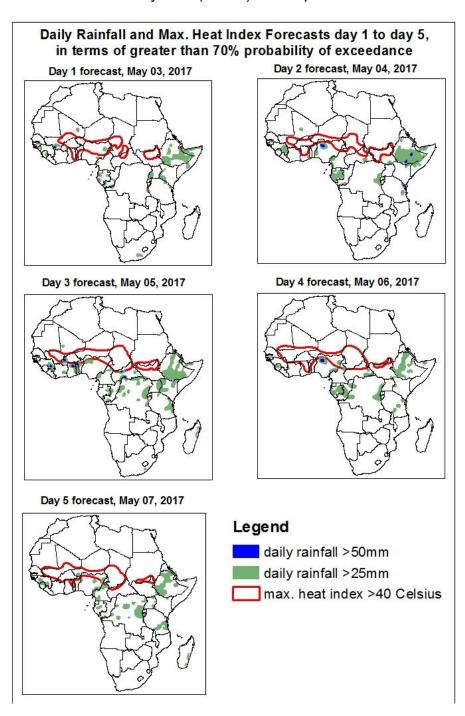
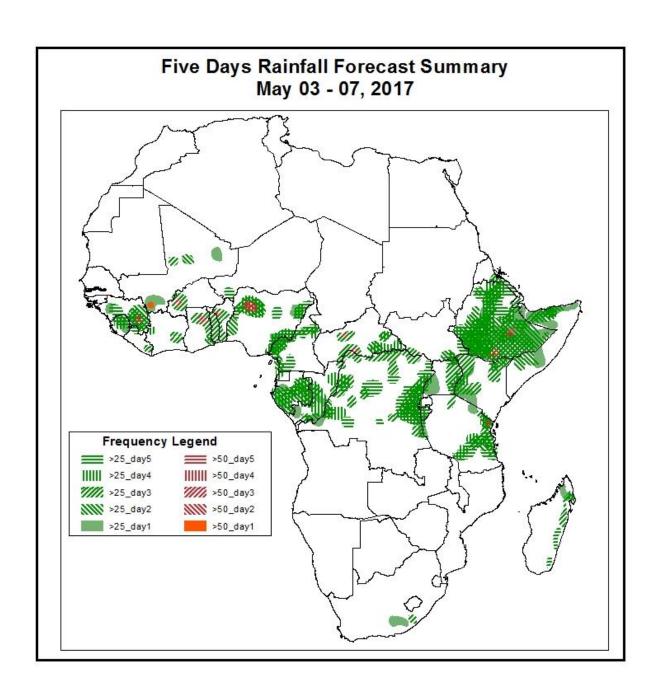
## 1. Rainfall, Heat Index and Dust Concentration Forecasts, (Issued on May 02, 2017)

## **1.1. Daily Rainfall and Maximum Heat Index Forecasts** (valid: May 03 – 07, 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.



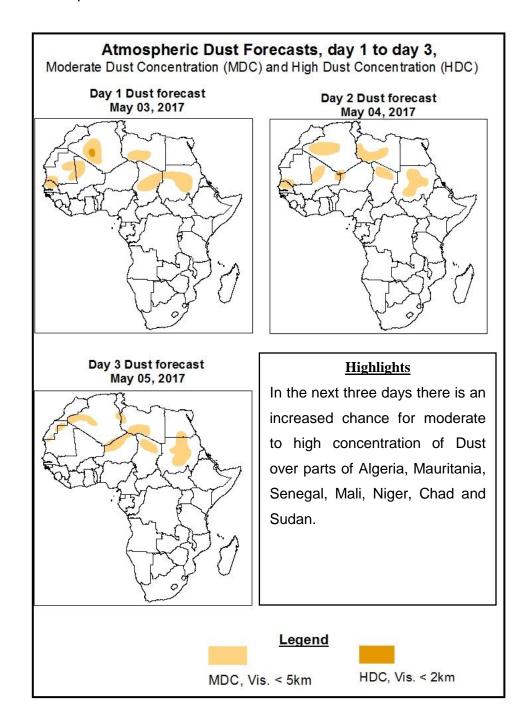


# <u>Highlights</u>

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 Sierra Leone, Guinea, Gabon, Ethiopia, Burundi and local areas of Eritrea, Mali, Burkina Faso, Cote d'Ivoire, Benin, Ghana, Togo, Nigeria, Cameroon, Congo, CAR, DRC, South Sudan, Somalia, Uganda, Kenya, Tanzania and Madagascar.

## 1.2. Atmospheric Dust Concentration Forecasts (valid: May 03 – 05, 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 03 – 07, 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 1021hPa during the next 96 hours and intensify to 1024hPa during the remaining forecast period.

The St. Helena High Pressure system over the Southeast of the Atlantic Ocean is expected to intensify with its value of the central pressure increasing from 1031hPa to 1033hPa during the next 48 hours and weaken to 1025hPa 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 1030hPa to 1038hPa during the next 48 hours and weaken to 1031hPa 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, Mauritania, Senegal, Mali, Niger, Chad and Sudan.

At 850hPa level, lower level wind convergences are expected to prevail over Cameroon, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Rwanda, Tanzania, Mozambique, Namibia, South Africa and Madagascar.

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 Sierra Leone, Guinea, Gabon, Ethiopia, Burundi and local areas of Eritrea, Mali, Burkina Faso, Cote d'Ivoire, Benin, Ghana, Togo, Nigeria, Cameroon, Congo, CAR, DRC, South Sudan, Somalia, Uganda, Kenya, Tanzania and Madagascar.

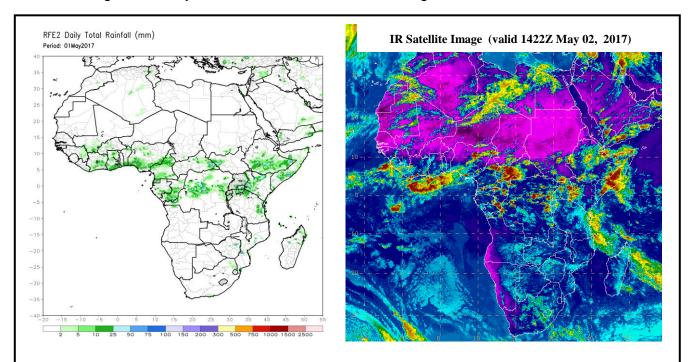
## 2.0. Previous and Current Day Weather over Africa

## **2.1. Weather assessment for the previous day** (May 01, 2017)

Light to moderate rainfall was observed over portions of Mali, Cote d'Ivoire, Ghana, Nigeria, Cameroon, Congo, CAR, DRC, South Sudan, Ethiopia, Somalia, Uganda, Kenya, Tanzania, Zimbabwe, Mozambique and Madagascar.

## 2.2. Weather assessment for the current day (May 02, 2017)

Intense convective clouds are observed over portions of Sierra Leone, Liberia, Nigeria, Cameroon, Equatorial Guinea, Gabon, Congo, CAR, DRC, South Sudan, Uganda, Ethiopia, Somalia, Uganda, Kenya, Rwanda, Tanzania 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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