

WEEKLY MONITORING AND FORECAST BULLETIN OF HEAVY RAINS

PSN06-236

Forecast of 02nd May 2016: Valid from 02nd May to 09th May 2016

Highlights: The past week was characterized by rainfall activities over Gulf Guinea countries (Guinea, Sierra Leone, Cote d'Ivoire, Ghana, Togo, Benin and Nigeria). Heavy rainfall were observed over Central Africa (Cameroon, Central African Republic, DRC, Gabon, and Congo) and over Eastern Africa (Ethiopia, Uganda, Kenya, South Somalia, Rwanda, and Burundi).

FORECAST

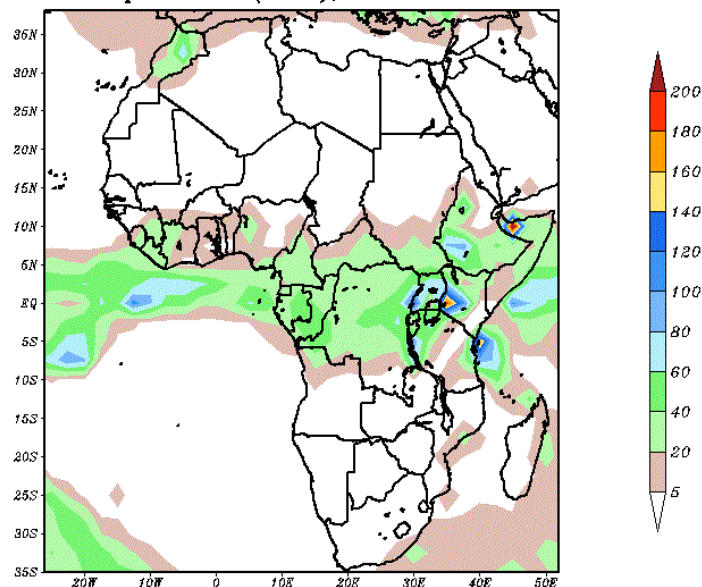
For next week:

Moderate to heavy weekly rainfall are expected: over Southern Ethiopia, Southwest Kenya, and Southern Uganda; Burundi, Rwanda and northwest Tanzania.

Light to moderate rainfall are expected over: Liberia, West Cote d'Ivoire, South Cameroon, Gabon, Congo, west CAR, East DRC, and most part of Kenya and Ethiopia.

(See the 7 days total rainfall forecast map below).

7-day Total Precipitation (mm), VT: 20160502 - 20160509



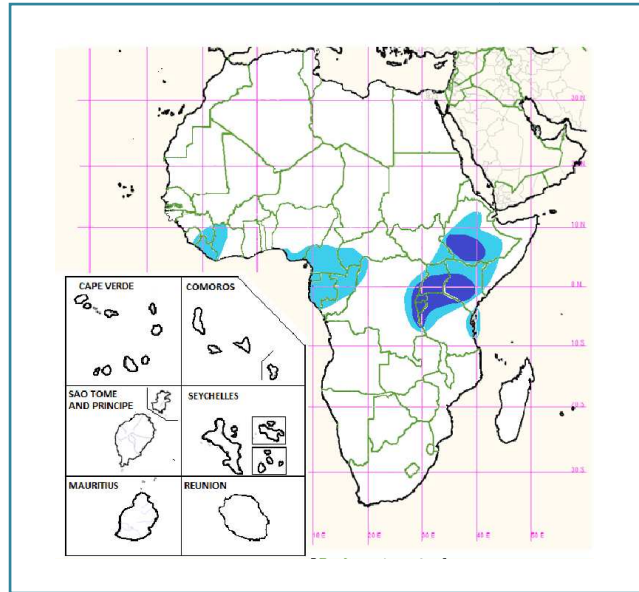
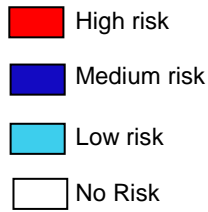
CrADS: COLA/ICRIS

Source: Mean of 15 members of the NCEP/NOAA Ensemble Prediction System
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gens/prod/gefs.20160502/00/ensstat>

OCCURRENCE PROBABILITY OF EXTREME WEEKLY PRECIPITATIONS

From 02nd May to 09th May 2016.

Legend



Source: Synthesis of:

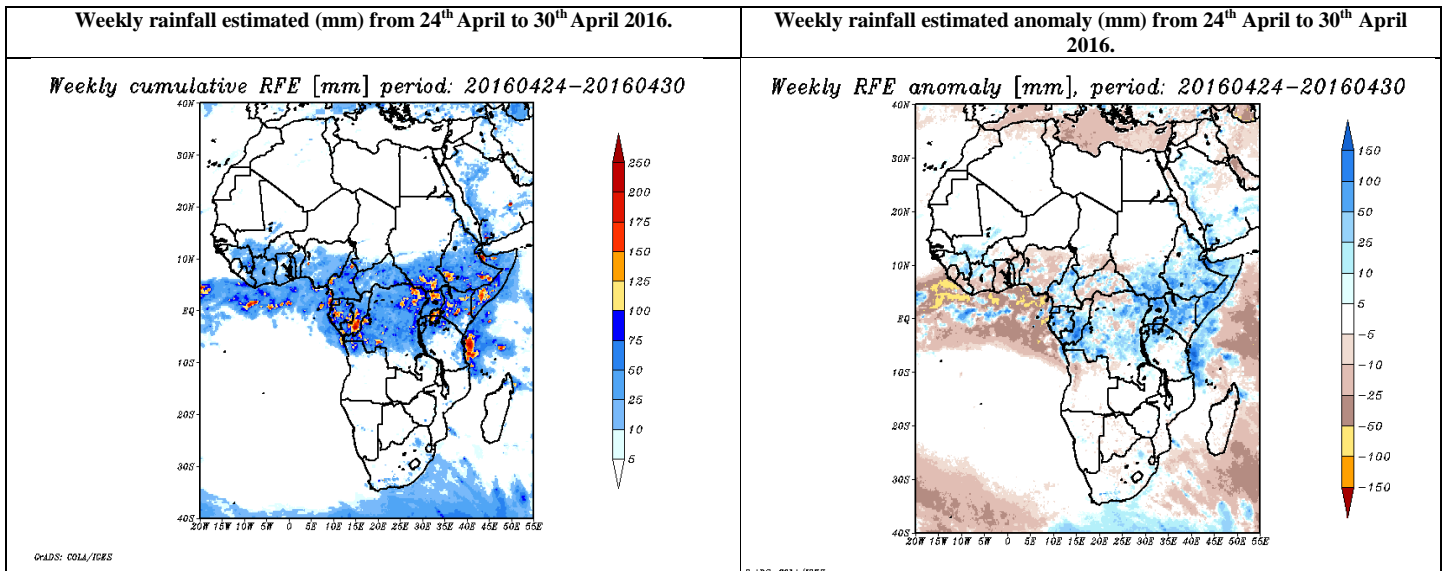
- 1) Dynamic of atmosphere by different global models (ECMWF, GFS, ARPEGE, UKMO),
- 2) Index of extreme events from ECMWF (http://www.ecmwf.int/products/forecasts/d/charts/medium/eps/efi/efi_tp/),
- 3) Occurrence probability of extreme precipitation from TIGGE project ensemble models (http://tparc.mri-ima.go.jp/TIGGE/tigge_extreme_prob.html), probability exceeding the 90th percentile [%]
- 4) MJO active phase

RAINFALL EVOLUTION DURING THE LAST WEEK

Comment:

During the last week, **above normal rainfall** was observed over: South Mali; West Guinea, Northwest Cote d'Ivoire, Centre Cameroon, Gabon, Congo, CAR, Centre DRC, South Sudan, North Angola, North/West Tanzania, Kenya, Ethiopia and Somalia.

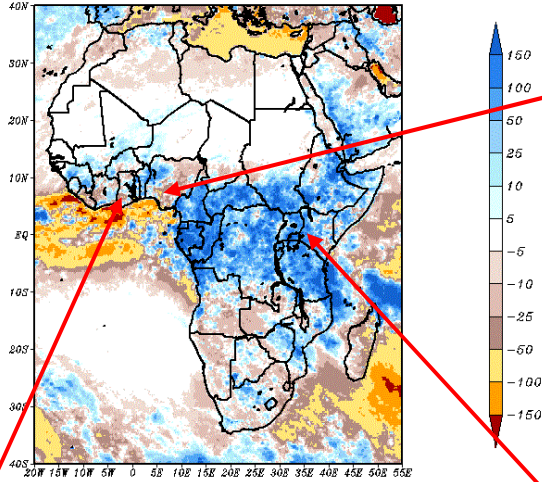
However, **below normal rainfall** was observed over: Liberia, South Cote d'Ivoire, Ghana, Togo, Ghana, Benin and Nigeria.



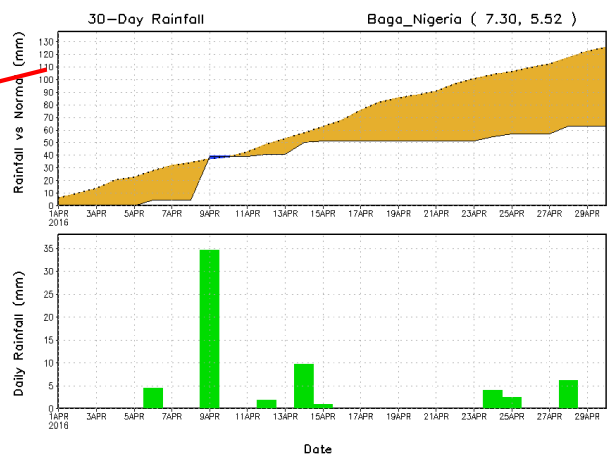
Source: RFE from NOAA/NCEP/Fewsnet

RECENT RAINFALL EVOLUTION AT SELECTED STATIONS

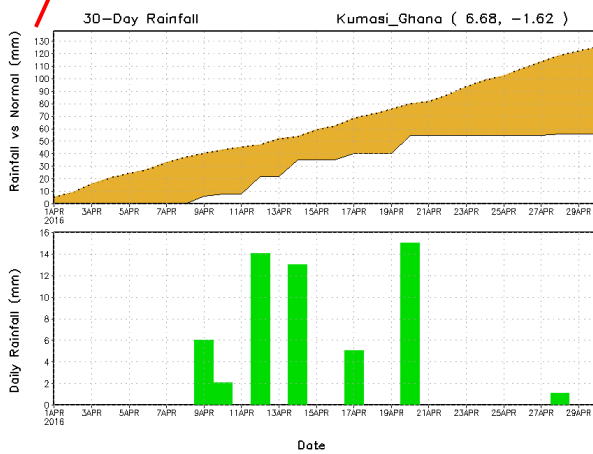
RFE anomaly [mm], period: 20160401–20160430



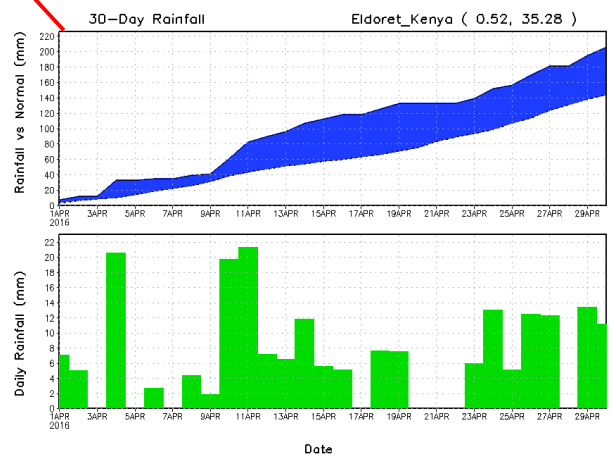
Daily Rainfall of Baga (Nigeria)
ARC2 Point Time Series



Daily Rainfall of Kumasi (Ghana)
ARC2 Point Time Series



Daily Rainfall of Eldoret (Kenya)
ARC2 Point Time Series



(Source: <http://www.cpc.ncep.noaa.gov/products/international/africa>)

RAINFALL PATTERNS FOR LAST 30 DAYS

Comments:

During the last 30 days, **above normal** rainfall was especially observed over Guinea, Northwest Nigeria, South Cote d'Ivoire, Benin, Cameroon, Gabon, Congo, CAR, DRC, Uganda, Ethiopia, Tanzania, Northeast/Centre Mozambique, North Angola, East Zimbabwe, Centre of South Africa and Northeast Madagascar.

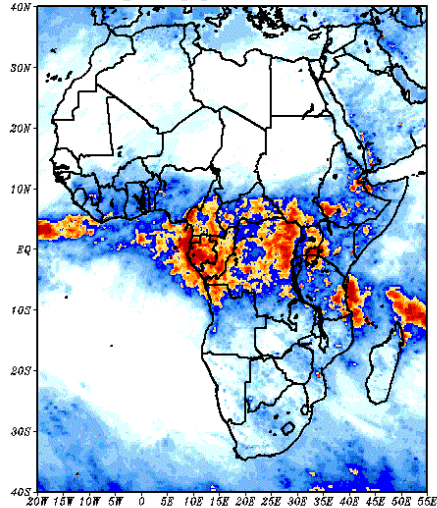
Rainfall deficits were recorded over: North Cote d'Ivoire, Centre/North Ghana, Centre/East Nigeria, South Angola, Namibia and Zambia.

(See the maps of estimated cumulative rainfall and anomalies below).

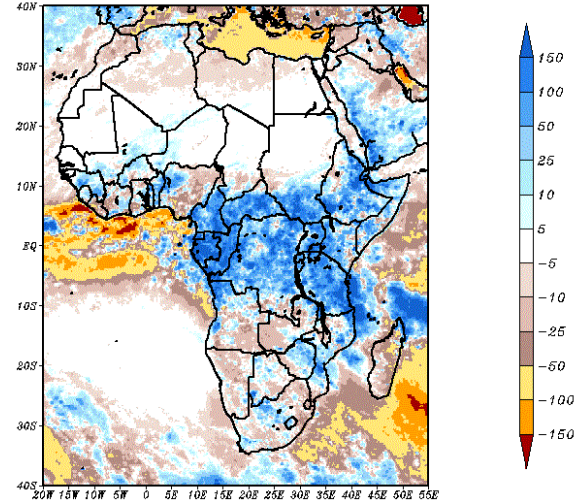
Monthly rainfall estimated cumulative (mm) from 01st April to 30th April 2016.

Monthly rainfall estimated anomaly (mm) from 01st April to 30th April 2016.

Cumulative RFE [mm], period: 20160401–20160430



RFE anomaly [mm], period: 20160401–20160430



S: COLA/IGES

A/IGES

Source : NOAA / NCEP / FEWSNET