

WEEKLY MONITORING AND FORECAST BULLETIN OF HEAVY RAINS

PSN06-248

Forecast of 29th August 2016: Valid from 29th August to 05 September 2016

Highlights: The rainy season was very active during the past week over the Sahel region. This activity was marked by easterly waves of heavy rainfall that swept the Sahel from Senegal to Niger, through Burkina Faso and southern Mali. North Mauritania and north Mali also experienced heavy rains due to the monsoon intrusion beyond the latitude 22°N. There is also a gradual return of rainfall activities over Gulf of Guinea countries. Heavy rains were also observed over Central Africa, including Cameroon, northern Congo, CAR and DRC. Eastern Sudan and northwestern Ethiopia continue to record heavy rainfall.

FORECAST

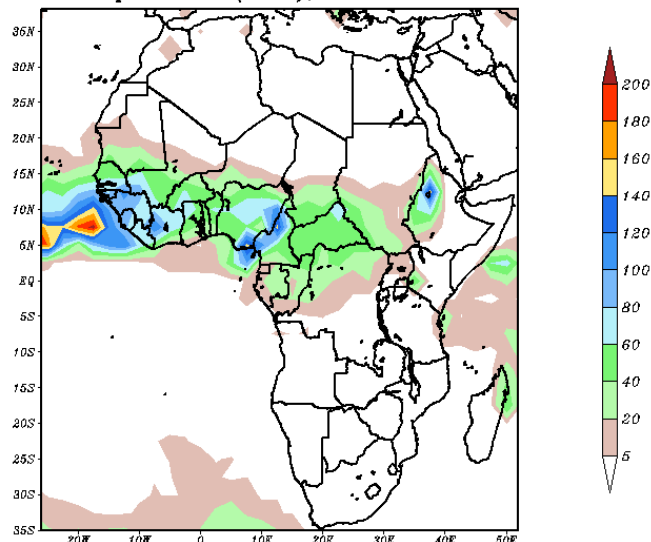
For next week:

Moderate to heavy weekly rainfall are expected over: south Senegal, Gambia, Guinea Bissau, Guinea, Sierra Leone, north Côte d'Ivoire, centre/east Nigeria and centre/west Cameroon.

Light to moderate weekly rainfall are expected over: South Cape Verde, south Mali, north Ghana/Togo/Benin, centre/south Burkina Faso, south Cameroon, CAR and west Ethiopia.

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

7-day Total Precipitation (mm), VT: 20160829 – 20160905



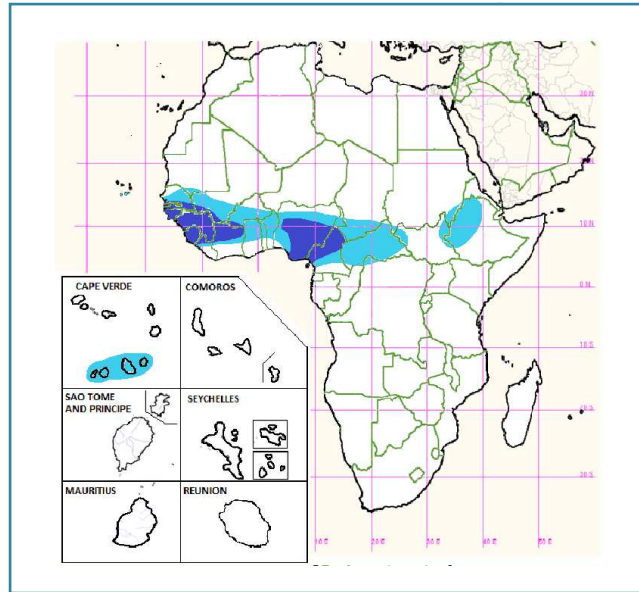
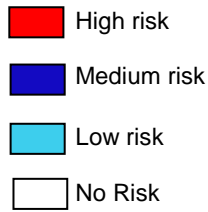
GRADS: CGLA/IGES

Source: Mean of 15 members of the NCEP/NOAA Ensemble Prediction System
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gens/prod/gefs.20160829/00/ensstat>

OCCURRENCE PROBABILITY OF EXTREME WEEKLY PRECIPITATIONS

From 29th August to 05 September 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: northern Mauritania, north Mali, west Guinea, Sierra Leone, Cote d'Ivoire, Burkina Faso, north Benin, centre/southeast Nigeria, east Niger, Chad, Cameroon, north Congo, east CAR, Sudan, South Soudan, northwest Ethiopia and DRC.

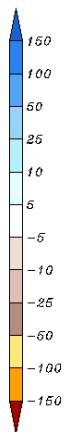
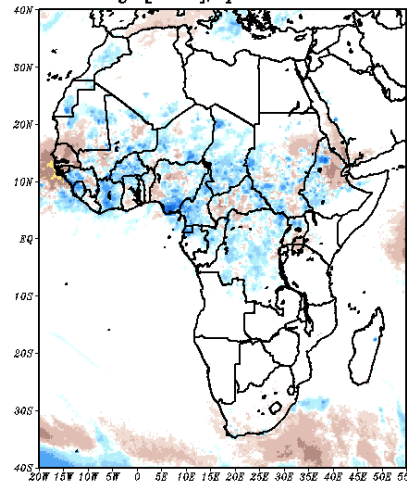
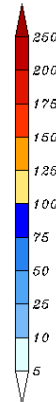
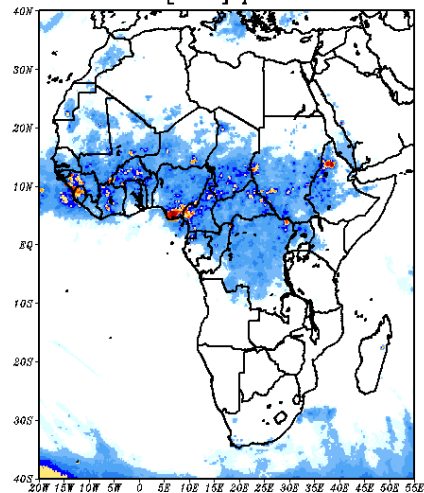
However, **below normal rainfall** was observed over: southwestern Mauritania, Senegal, south Ghana/Togo/Benin, west CAR and northeastern Ethiopia.

Weekly rainfall estimated (mm) from 21th to 27th August 2016.

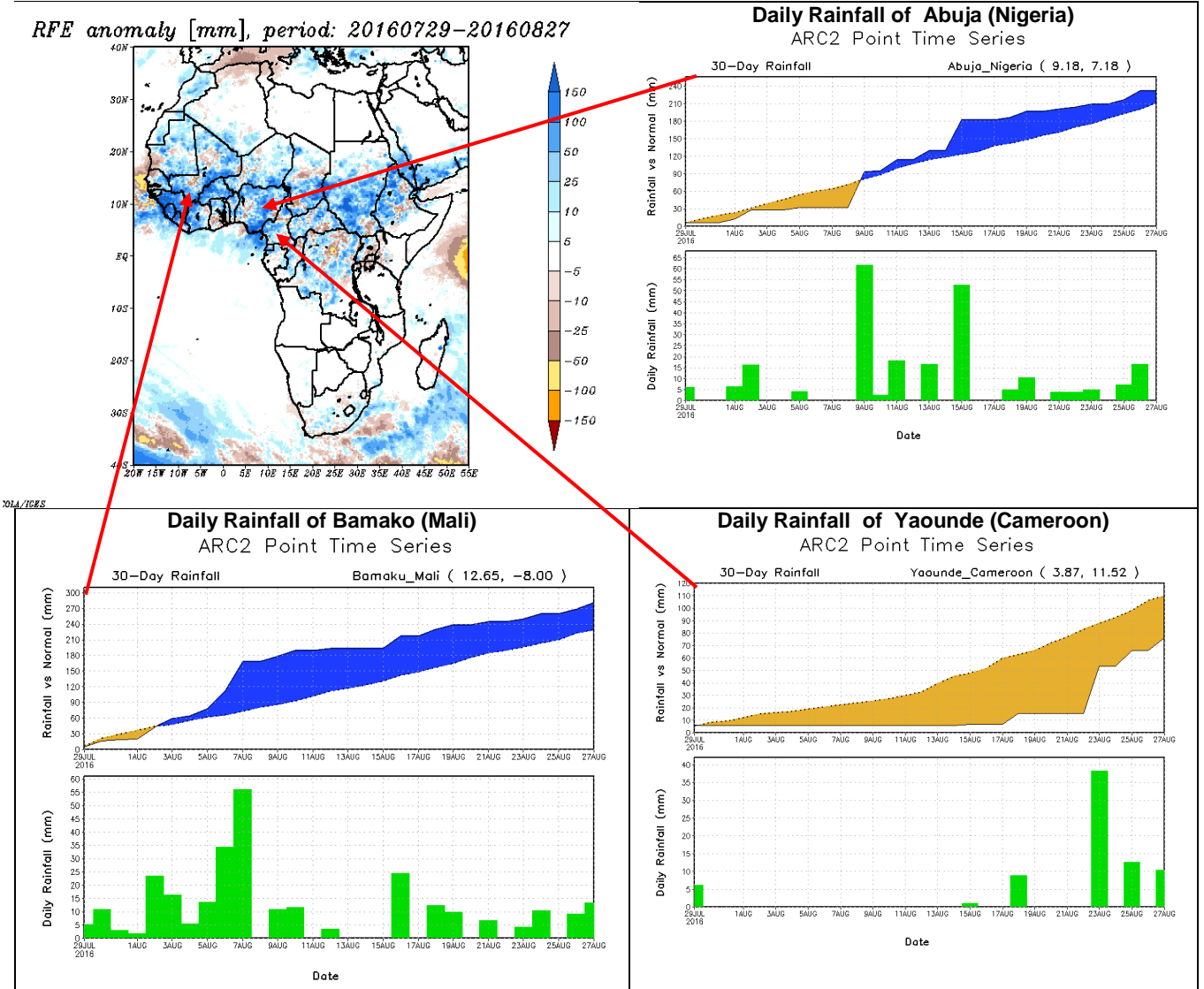
Weekly rainfall estimated anomaly (mm) from 21th to 27th August 2016.

Weekly cumulative RFE [mm] period: 20160821-20160827

Weekly RFE anomaly [mm], period: 20160821-20160827



RECENT RAINFALL EVOLUTION AT SELECTED STATIONS



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

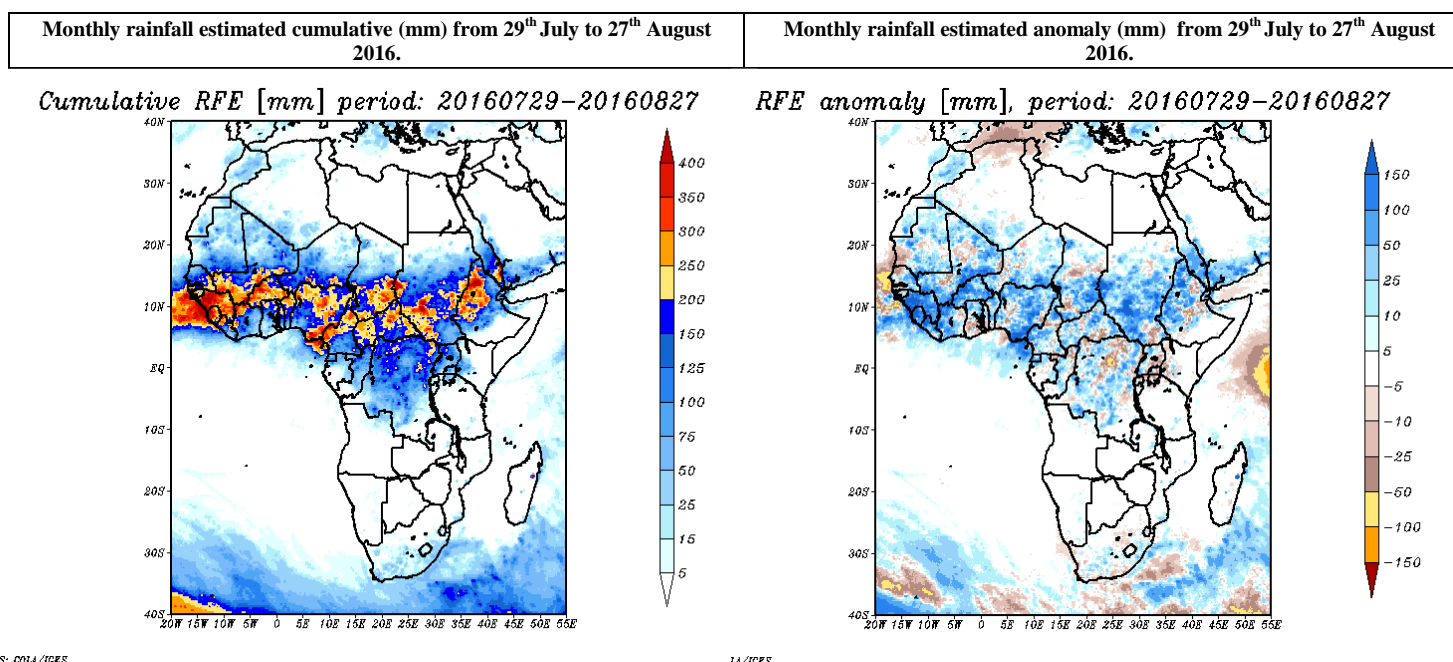
RAINFALL PATTERNS FOR LAST 30 DAYS

Comments:

During the last 30 days, **above normal** rainfall was especially observed over centre Morocco, south Algeria, north/south Mauritania, east Senegal, Gambia, Guinea Bissau, Guinea, Sierra Leone, Liberia, Cote d'Ivoire, Mali, Burkina Faso, north Ghana/Togo/Benin, Niger, Nigeria, north Cameroon, Chad, CAR, Sudan, South Sudan, northwest Ethiopia, centre DRC and centre/eastern South Africa.

However, **below normal rainfall** was observed over: northwestern Senegal, east Cote d'Ivoire, south Ghana and northern DRC.

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



Source : NOAA / NCEP / FEWSNET