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Satellite and Weather Information for Disaster Resilience in Africa



A project led & implemented by the African Center of Meteorological Applications for Development

Weekly Rainfall Outlook # 070

Issued on July 16, 2019

Validity: July 16, 2019 to July 29, 2019

FORECAST MAPS

Week1 rainfall [mm] period: 20190716–20190722

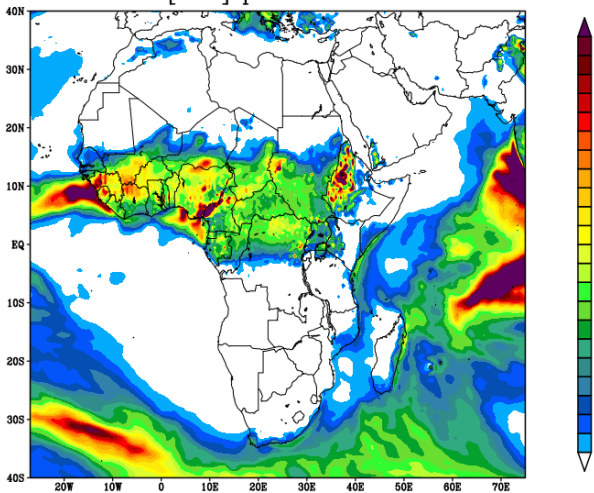


Figure 1: Total accumulated precipitation for week 1 (Source of data is GFS ensemble model)

Week2 rainfall [mm] period: 20190723–20190729

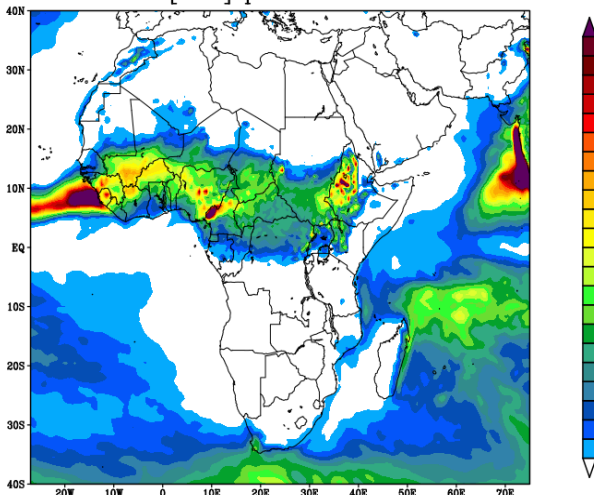


Figure 2: Total accumulated precipitation for week 2 (Source of data is GFS ensemble model)

Forecast Summary Week 1:

In the next seven (7) days, there are prospects of **moderate to heavy rainfall** (i.e. 7 days accumulated rainfall between 100mm to 150mm) over western Sierra Leone, western Guinea Conakry, western Cameroon, western Ethiopia, central & southeastern Nigeria and environs. **Light to moderate rainfall** is anticipated over Senegal Gambia, Guinea Bissau, Liberia, Ivory Coast, western Burkina Faso, eastern Mauritania, southern Niger, Ghana, Togo, Benin, southern Chad, CAR, Equatorial Guinea, northern Gabon, northern Congo, Sao Tome & Principe; northern DR Congo, South Sudan, southern Sudan, Uganda, western Kenya and Eritrea in the next seven (7) days.

Meteorological Situation:

Strong diverging winds at 850hPa are expected over southern Ivory Coast, southern Ghana, southern Togo, southern Benin, southern Nigeria, Tanzania, southern Kenya, southern Ethiopia and Somalia, while lower level convergence is anticipated to prevail over the Gulf of Guinea, western Ethiopia, Senegal, Gambia, Guinea Bissau, Guinea Conakry, Sierra Leone, Burkina Faso, southern Niger, northern Nigeria, southern Chad, Uganda, South Sudan, Cameroon, CAR and western part of central Africa countries. The MJO is expected to weaken and be over central and eastern parts of the continent as it moves eastward while the Equatorial Rossby is expected to be over eastern part of east Africa. Hence, rainfall intensity is expected generally to be enhanced over the regions.

Forecast Summary Week 2:

During the following week (i.e. week 2), there are prospects of **heavy rainfall** over Guinea Bissau, Guinea Conakry, Sierra Leone, Liberia and western Cameroon and environs. **Light to moderate rainfall** is anticipated over Senegal, Gambia, southern Mali, Ivory Coast, Burkina Faso, Ghana, Togo, Benin, Nigeria, southern & eastern Niger, southern Chad, eastern Mauritania, CAR, South Sudan, southern Sudan, western Ethiopia, northern DR Congo, northern Congo, Equatorial Guinea, Sao Tome & Principe, northern Gabon, Uganda, northwestern Kenya and Eritrea during the forecast period.

Meteorological Situation:

The lower level wind convergences over the continent are expected to enhance precipitation over Gulf of Guinea, western and central Africa, western Ethiopia, Uganda, western Kenya and environs. The MJO is expected to be over central Africa, Nigeria, southern Togo, southern Benin, and western Sudan as it moves eastward while the Rossby wave is expected to be over eastern part of East Africa. Strong velocity potential anomaly expected over Guinea Bissau, Guinea Conakry, Liberia and Sierra Leone together with strong easterly winds is expected to bring in more moisture to enhance rainfall over the regions during the forecast period.