





# SOMALIA WEEKLY WEATHER FORECAST

Valid From 24 to 30 April 2024

Light to Moderate rains is expected over the vast majority area in Somaliland and Puntland, apart from Awdal and Bari Regions where dry conditions will prevail in the coming week. During the same period the coastal parts of Nugaal, Mudug, Galgadud and Middle Shabelle Regions will receive light rains; while the rest of the country is expected to experience moderate to heavy rains. Localised very heavy cumulative rainfall of upto 200mm is expected in Belet Weyne, in Hiran Region, parts of Bay Region near Baidoa, Buale in Middle Juba Region, Garbahaarey in Gedo Region, and south of Burco in Togdheer Region.

## Weather Review for the Week Between 16 and 24 April 2024

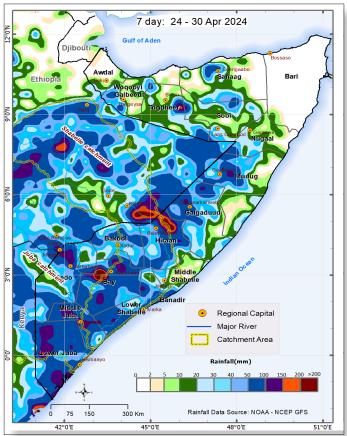
Good rains were recorded in almost all parts of the country during the week under review. Seventy nine (79) stations spread across Waqoyi-Galbeed, Awdal, Sanaag, Nugaal, Mudug, Bay, Middle jubba, Lower Shabelle, Hiiran, and Banaadir regions recorded at least 1mm of rainfall. Bakool Region remained dry. Cloud breaks in some areas led to elevated surface air temperatures with reported thermal discomfort.

The following stations (Figure 1) received at least 20mm of rain between 16 and 22 April 2024: in Aburin (32.5 mm), Dooxaguban (30.5 mm), Taysa (12.5 mm), Hargeisa (114 mm), Las Dacawo (70 mm), Sheikh (58 mm), Botor (53 mm), Berbera (25 mm), Cadaadley (46 mm), Baligubadle (37 mm), Allaybaday (35.5 mm), Gacan-libah (26 mm), Bulohar (35 mm), Wajaale (22 mm) in Wagooyi-Galbeed region, Belet weyne (91.9 mm), Mahas (27 mm), Mataban (45 mm) in Hiran region, Baidoa (130.4 mm), Qansax-dhere (50.2 mm), Burhakaba (27 mm) in Bay region, Galdogob (39.8 mm) in Mudug region, Bualle (39.5 mm) in Middle juba region, Balcad (59.3 mm), Jowhar (58 mm), Mahadweyn (45 mm) in Middle Shabelle region, Kismayo (42.5 mm) in Lower Jubba region, Wanle Weyne (28 mm), in Lower Shabelle region, Dollow (75.3 mm), Luuq (44 mm) in Gedo region, Qulujeed (59.5 mm), Baki (45 mm), Caynabo (44 mm), Buhoodle\_SL (56.2 mm), Waridaad (23 mm), in Sool region, Buhoodle (56.2 mm), Beer (44 mm), Burao (53 mm), Gatilley (44 mm), Warabeye (72 mm) in Togdheer region, Garadag (50 mm), Dhahar (56 mm), Elafweyn (44.5 mm), Baran (22.1 mm), Buran (20.5 mm) in Sanaag region, Mogadishu (20 mm) in Banadir region, Xasbahale (39 mm), Eyl (20 mm), in Nugaal region, and Qardho (23 mm) in Bari region.

### Weather Forecast for the Week Between 24 and 30 April 2024

During the week between 24 and 30 April 2024, and based on NOAA-NCEP GFS, Light to Moderate rains are expected over the vast majority area in Woqooyi Galbeed, Togdheer, Sool and Nugaal Regions. Most parts of Awdal, Sanaag, and Bari Regions will be dry over the forecast period. Along the coastal areas of Mudug, Galgadud and Middle Shabelle light rains are anticipated, while the rest of the country will receive moderate to heavy rains in the coming week. The chances of wet conditions are supported by the stagnation of Madden Julian Oscillation (MJO) index over the eastern parts of Indian Ocean over the last 10 days. The small amplitude of the index however signifies weak cycles of the MJO. This therefore is associated with decreased skill and reliability of extended range forecasts. The tendency of general dry conditions over Bari and Sanaag Regions is likely to be driven by the low-level easterly winds blowing parallel to the northeastern coastline which limits the incursions of precipitable water inland.

The temporal and spatial distribution of the forecast rainfall are as follows:



Map 1:Cumulative rainfall forecast over Somalia between 24 and 30 April 2024

Very heavy cumulative rainfall between 150 mm and 200 mm is likely over some areas in western parts of Belet Weyne district in Hiran region, and Baydhaba district in Bay region. Other parts of the country likely to receive the very heavy rainfall are Buale in Middle Juba Region, Garbahaarey in Gedo Region, and south of Burco in Togdheer Region. The heavy rains are likely to fall between 24 and 28 April 2024 with likelihood of flash flooding.

Heavy cumulative rainfall between 100 mm and 150 mm is likely over the following areas: Galkacayo in Mudug region, Dhuusamareeb in Galgaduud region, southern parts of Beletweine in Hiran region, Baydhaba in Bay region, Bu'aale in Middle Jubba, Kismayo in Lower Jubba, Garbaharey in Gedo region, Such rains are also expected over Burao in Togdheer region, and western parts of Hargeisa in Waqooyi-Galbed region.

Moderate cumulative rainfall between 50 mm and 100 mm is likely over most areas of Mudug and Galgaduud regions, parts of Xudun and Taleex district sin Sool region, several areas in Lower Shabelle region, Ceel Waaq and Bardheere districts in Gedo region, Qansax Dheere district in Bay region, Balcad district in Middle Shabelle region, Qandala district and northern parts of Qardho district in Bari region, and over an area confined to the southern Hargeisa district in Woqooyi Galbeed.

Light cumulative rainfall of less than 50 mm is forecast over vast majority areas in Waqoyi-Galbeed, southern parts of Burao, and Las'anod districts in Togdheer and Sool regions, Baki district in Awdal region, Erigavo district in Sanaag region, western parts of Garowe, Southeastren parts of Galkacayo in Mudug region. Such rains are likely over the most areas in southern and coastal parts of Mudug, Galgaduud, and Middle Shabelle regions.

**Dry conditions** are likely to prevail over vast coastal areas in Nugaal and Bari region, Zeylac district and northern parts of both Lughaye and Baki districts in Awdal region, and eastern parts of Garowe and Las, anod districts in Nugaal and Sool regions, and southern parts of Jowhar district.

#### **Temperature Forecast:**

Moderately high temperatures of between 35°C and 40°C are likely over Bari, Nugaal, Mudug, Galgaduud, Lower and Middle Juba, Lower Juba, and Awdal regions, Galgaduud, Mudug and Bari regions, Galkacayo district in Mudug region, Garowe in Nugal region, Baki and Borame in Awdal region, Jowhar in Middle Shabelle, and Beletweine district in Hiran region.

Moderate temperatures of between 30°C and 35°C are likely the rest of the country except over Erigavo in Sanaag region, Bosaso in Bari region and northern parts of Hargeisa district in Waqooyi Galbeed region where temperatures less than 30°C are anticipated.

#### **Current River Levels**

Along the Shabelle River, the current level at Belet Weyne is above the station Long Term Mean (LTM) and less than half a meterm to moderate risk levels (Graph 1). At Bulo Burte, the current river level is exactly equal to the station LTM and below the level same time last year. The level at Jowhar sustained its steady rise during the week to a level slightly above high flood risk and dropped in the last 2 days to below moderate risk level. Compared to observations taken on 18 April 2024, levels recorded on 24 April 2024 at Belet Weyne (6.20 m), at Bulo Burte (3.68 m) and at Jowhar (4.90 m) represent 1.62 m, 0.88 m rise, and 0.37 m drop, respectively. This is in response to run off from the cumulatively moderate to heavy local rains observed in Hiraan region, and decreased rainfall activities in Middle Shabelle in the last week.

Current levels along the Juba River are within the station LTM and below the 2023 levels at Dollow and Luuq (Graph 2). Compared to observations taken on 18 April 2024, levels recorded on 24 April 2024 at Dollow (3.24 m) and Luuq (3.18 m) represent 88 cm and 76 cm drop, respectively, in response to decreased run off as a result of reduced rainfall activity observed within the Juba River catchment in the last week. Even with the unavailability of measurements from the traditional gauging stations at Bardheere and Bu'aale, it is anticipated that a similar steady drop in the levels is likely along the central and lower sections of the Juba River.

#### **Impacts Associated with the Weekly Weather Forecast**

The moderate to heavy rains likely to fall along the entire reach of the Juba river inside Somalia, the river level is expected to rise towards the end of the week. However, given the current low levels the risk of flooding along Juba is expected to remain low

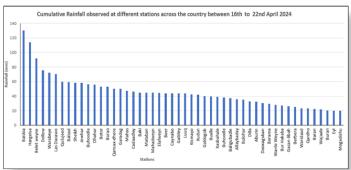
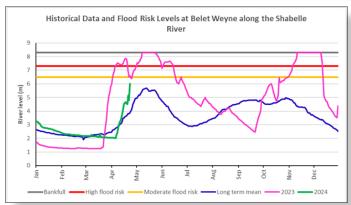
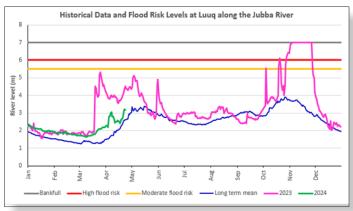


Figure 1: Stations that observed rainfall of more than 1 mm between 24 and 22 April 2024



Graph 1: Shabelle River level at Belet Weyne Gauging Station as of 24 April 2024



Graph 2: Juba River level at Luuq Gauging Station as of 24 April 2024

during the week, but rising towards moderate risk by the end of the week. However, the known high sensitivity of the Juba River levels to rainfall events calls for day by day monitoring of storm events within its catchments.

The moderate to very heavy rains expected within the Somalia/ Ethiopia border along the Shabelle River are likely to generate sufficient run off to sustain the steady rise in the levels with moderate riverine flooding risk along the entire reach. The risk of riverine flooding particularly at vulnerable breakage points rises to high level in the last week of April if the duration and intensity of the rains increases beyond the forecast period.

There is moderate risk of flash flooding in Belet Weyne, in Hiran Region, parts of Bay Region near Baidoa, Buale in Middle Juba Region, Garbahaarey in Gedo Region, and south of Burco in Togdheer Region due to the expected very heavy cumulative rainfall in the coming week.

SWALIM is a multi-donor project managed by FAO and currently funded by The European Union, SDC, FCDO, Government of France and USAID





British Embassy Mogadishu



