

## SOMALIA WEEKLY WEATHER FORECAST

Valid From 6th to 13th June 2023

**Moderate rainfall expected over southern coastal regions with light rains and dry condition predicted over the rest of the country.**

### Review of the Weather for the period 31st May to 6th June 2023

Light to moderate rainfall was observed in Somalia over the last week with twenty four (24) stations recording at least 1 mm of rainfall (*Figure 1*). Moderate cumulative rainfall of at least 50 mm was recorded in Gumburaha (78 mm) and Hargeisa (56 mm) both in Woqooyi Galbeed region. The rains observed at Gumburaha (78 mm) and Baligubadle (30 mm) in Woqooyi Galbeed region and Warabeye (42 mm) in Togdheer region were relatively intense having occurred in a single day. The best temporal distribution of rainfall during the forecast period was observed at Hargeisa (56 mm/3 days) in Woqooyi Galbeed.

The widespread and devastating floods that occurred after Shabelle River burst its banks at Belet Weyne and later at Bulo Burte and at Jalalaqsi have subsided. The residents of these towns and their surroundings should take precautions as they consider moving back to their homes. They need to ascertain the strength of the housing structures, latrines, etc., which may have been weakened by the flood waters. They also need to ensure that they consume clean treated water as contamination is likely to have occurred during the flooding.

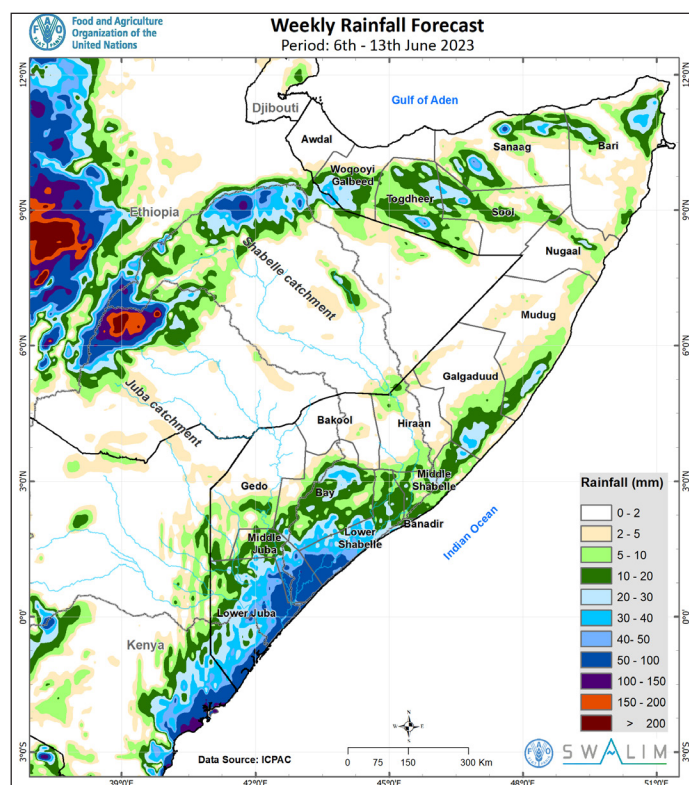
### Forecast of the Weather for 6th to 13th June 2023

Moderate rainfall expected over southern coastal regions with light rains predicted over most other parts of Somalia during the forecast period (*Map 1*). The spatial distribution of the cumulative rainfall amounts is as follows:

**Moderate rainfall** of between 50 and 100 mm is expected over the areas next to the coastline in the southern part of the country. These areas include the eastern and coastal parts of both Badhaadhe and Kismaayo districts, eastern and southern parts of Afmadow district, and the entire Jamaame district in Lower Juba region.

Similarly, moderate rains are also likely over Jilib district and the isolated areas in the southern part of Buale district in the Middle Juba region and over several areas in southern and western parts of both Sablaale and Baraawe districts in Lower Shabelle region.

Some isolated areas in the north particularly over Eerigavo in Sanaag region are also likely to receive moderate rains.



Map 1: Cumulative rainfall forecast over Somalia between 6th and 13th June 2023

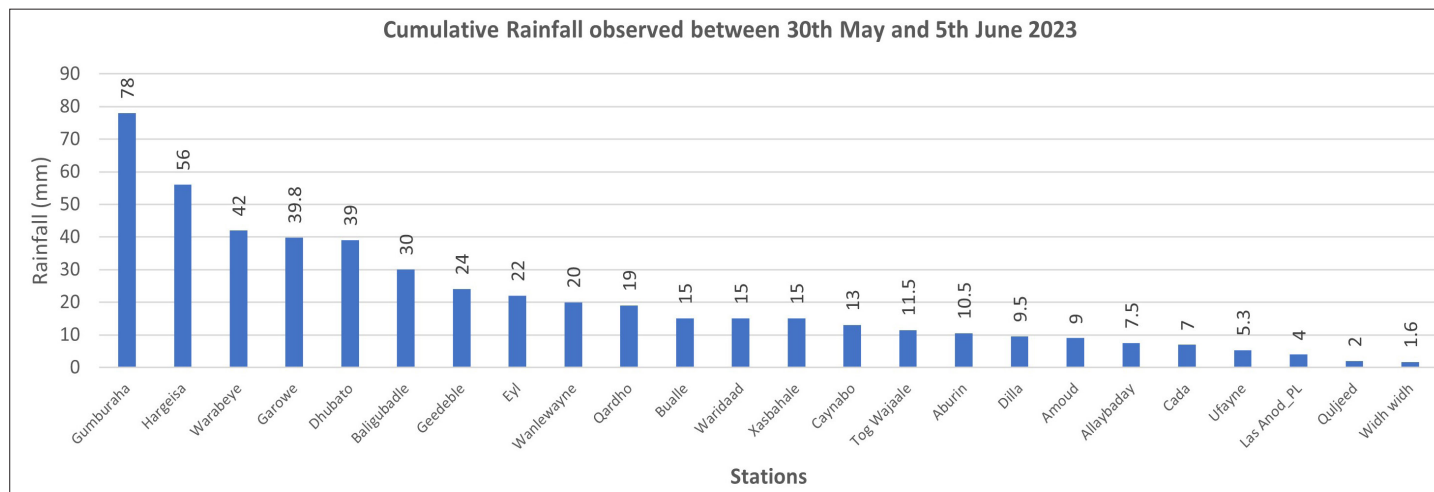


Figure 1: Cumulative rainfall (mm) observed at different stations between 30th May and 5th June 2023 across Somalia

**Light rainfall** of less than 50 mm is expected over several areas in Afmadow district and the western parts of Badhaadhe and Kismaayo districts in Lower Juba region; Saakow district and northern parts of Buáale district in Middle Juba region; and southern and eastern parts of Baardheere district in Gedo region. Similar rains are likely over Qoryoley, Kurtunwaarey, Marka, Afgooye and Wanla Weyne districts in Lower Shabelle region; several areas in Middle Shabelle and Bay regions; non-coastal areas of Ceel Dheer district in Galgaduud region; and non-coastal areas of both Xaradheere district and southern Hobyo district in Mudug region. In the northern parts of the country, such light rains are likely over southern and central parts of Hargeisa district in Woqooyi Galbeed; several isolated areas in Togdheer region; Xudun and Caynabo districts in Sool region; central border areas of Ceel Afweyne and Ceerigaabo districts, northern parts of both Ceerigaabo and Laasqoray districts in Sanaag region, areas in southern Bossaso district and northeastern parts of Iskushuban district in Bari region. Similarly lighter rains are also likely over the border areas between Garowe and Eyl districts in Nugaal region.

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**Dry conditions** are expected over the entire Awdal region and several areas in Gedo, Bakool, Hiraan, Galgaduud, Mudug, Nugaal and Bari regions. In the northern parts of the country, such dry conditions are likely over Berbera district and the northern parts of both Gebiley and Hargeisa districts in Woqooyi Galbeed; northern parts of Ceel Afweyne district, northwestern, southern and eastern parts of Ceerigaabo district and central and southern parts of Laasqoray district in Sanaag region; Caluula, Qandala, Qardho, and Bandarbeyla districts and southern parts of Iskushuban district and northern parts of Bossaso district in Bari region.

### Temperature

**Moderate temperatures** of between 24°C and 28°C are expected over the southern parts of the country and over several areas in Togdheer and Sanaag regions in the north. Temperatures below 24 °C are likely over southern parts of Hargeisa district in Woqooyi Galbeed; areas in the border between Owdweyne and Sheikh districts in northern Togdheer region; northwestern parts of Ceerigaabo in Sanaag region; and areas in the northern border between Bossaso and Qandala district in Bari region.

**High temperatures** of between 28 °C and 32°C are expected over northern Gedo region, Hiraan, Galgaduud, and Mudug regions, and several parts of Bari region. Temperatures as high as 36°C are likely over eastern parts Iskushuban district in Bari region; and areas along the entire country's northern coastal strip.

**Extremely high temperatures** (36°C - 40°C) are expected over central parts of Lughaye district and northern parts of Zeylac districts in Awdal region.

### Current River Levels

Shabelle River. After stagnating at bankful level for 15 days, the Shabelle river level at Belet Weyne (*Figure 2*) dropped to 7.15 m on 2nd June before rising again to 7.60 m today (7th June) in response to flood waves originating upstream. In Bulo Burte, the river level has slightly dropped from bankful to 6.80 m today (7th June) (*Figure 3*).

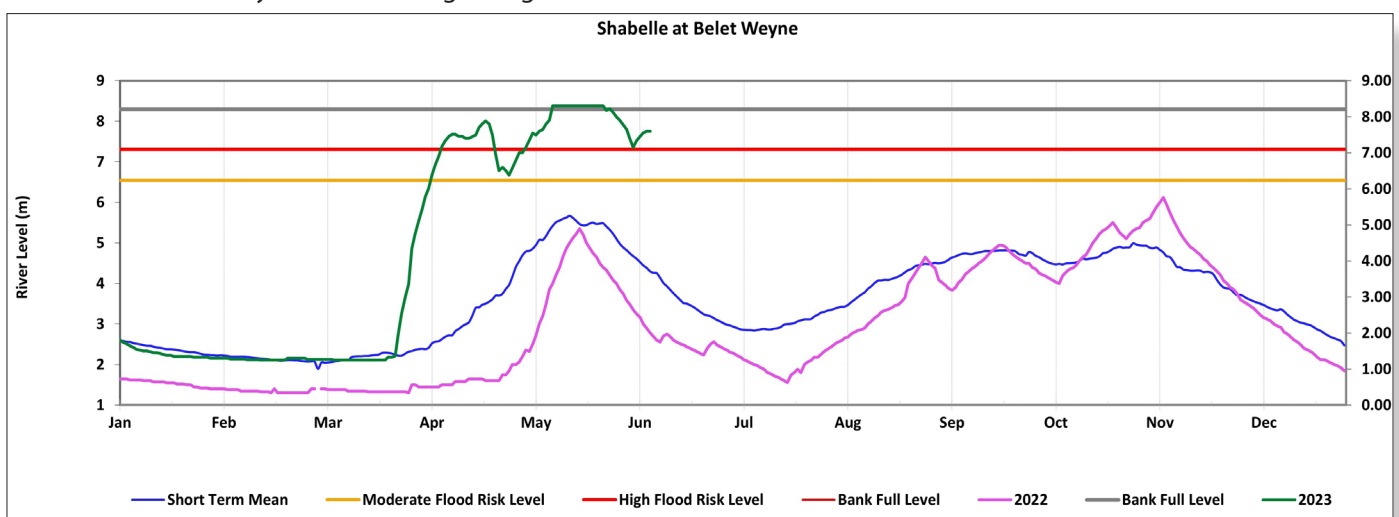


Figure 2: Juba river level at Belet Weyne gauging station as on 7th June 2023

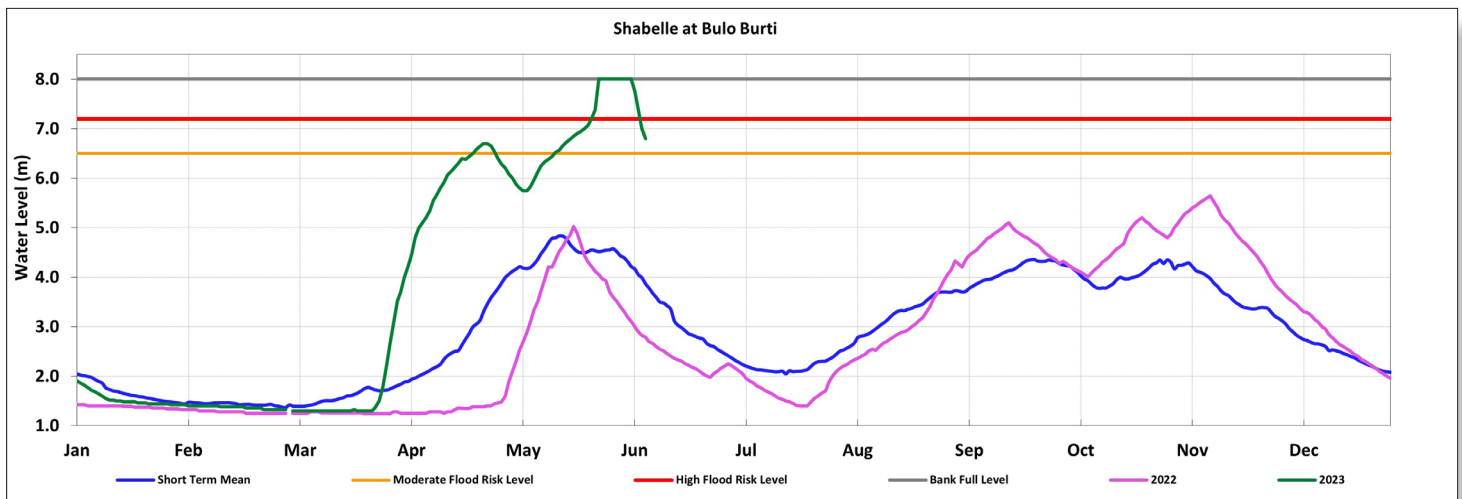


Figure 3: Shabelle river level at Bulu Burti gauging station as on 7th June 2023

However, the river levels at Belet Weyne and Bulu Burti are still above the high and moderate flood risk levels, respectively, but are expected to drop given the forecast dry conditions. The river level at Jowhar today is 3.80 m (7th June) which is below moderate flood risk level (5.00 m).

Juba River. After rising sharply to 4.80 m, crossing the moderate flood risk level (4.50 m) and just 20 cm below the high flood risk level (5.00 m), on 31st May, the river level at Dollow has dropped to 3.20 m today (7th June). At Luuq, the river level has decreased from 4.60 m recorded on 29th May to 3.22 m today (7th June). Compared to observations made on 31st May, river levels recorded today (7th June) represent a slight steady increase from 6.12 m to 6.68 at Bardheere, and from 5.15 m to 6.23 at Buulle.

Figures 2 and 3 show the current river levels against the Short Term Mean and 2022 levels for Belet Weyne and Bulu Burti stations respectively.

### Impacts Associated with the Weekly Weather Forecast

It is expected that the current high river levels at Bulu Burti and Jalalaqsi will be transmitted to Jowhar and eventually to Balcad in the coming days. However, the presence of two open unrehabilitated canals and breakages between Jalalaqsi and Jowhar directing water to irrigation lands in the agropastoral areas over Wanla Weyne will lead to flood water extraction thereby lessening the likelihood of flooding in Jowhar.

Given the forecast over the catchments of both Shabelle and Juba Rivers in the Ethiopian highlands and inside Somalia, the river levels are likely to sustain drop within the forecast period. However, moderate-risk flood warning remains in effect for Belet Weyne, Bulu Burti, Jalalaqsi and the adjacent areas considering the current high river levels. SWALIM and partners will continue monitoring the rainfall-run off situation upstream of Belet Weyne and give regular updates.

The expected moderate rainfall in the southern coastal regions will lead to partial recharge of surface water sources and sustenance of the regenerated vegetation, which is important for human, and livestock survival. The warm (below 24 oC) and wet conditions expected over southern parts of Hargeisa district in Woqooyi Galbeed are favourable for water source replenishing, crop and grassland generation that supports pastoral livelihoods. The extremely hot (up to 40 oC) and dry conditions expected over central parts of Lughaye district and northern parts of Zeylac districts in Awdal region are likely to lead to enhanced evaporation, reduced soil moisture and crop and grassland wilting and thus unfavorable for agro-pastoral livelihoods. Such harsh hot and dry conditions are also likely over several areas along the country's northern coastal strip.

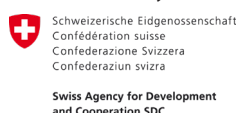
### El Niño Update and Possible Impacts over Somalia

According to IRI, transition from the current El Niño-Southern Oscillation (ENSO) neutral state is expected in the next couple of months, with a greater than 90% chance of El Niño persisting into December-January-February season. All Australian Bureau of Meteorology (BOM) models suggest that positive Indian Ocean Dipole (IOD) event thresholds may be reached during the same period. Positive IOD has been reported to lead to enhanced El Niño-related wetting influences during the East Africa short rains. According to IGAD Climate Prediction and Application Centre (ICPAC), wetter conditions associated with El Niño are expected between October and December in the equatorial parts. El Niño events tend to enhance rainfall in Eastern Africa including southern Somalia. Drier-than average conditions tend to occur in the northern parts of Eastern Africa including northern Somalia.

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