

UNOSAT United Nations Satellite Centre

3 May 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT

Bulo Burto City, Hiraan Region and Jowhaar City, Middle Shebelle Region, Somalia



Status: Increased of water extent along Shabelle River observed in Somalia

EFurther action(s): Continue monitoring

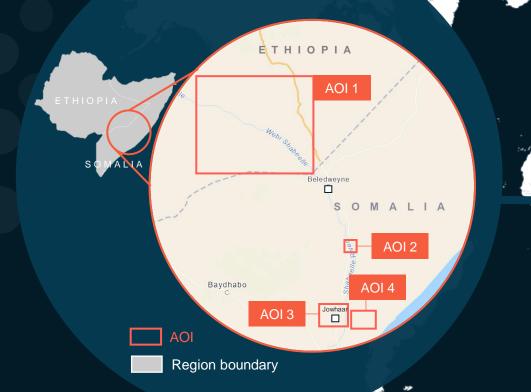




SOMALIA & ETHIOPIA

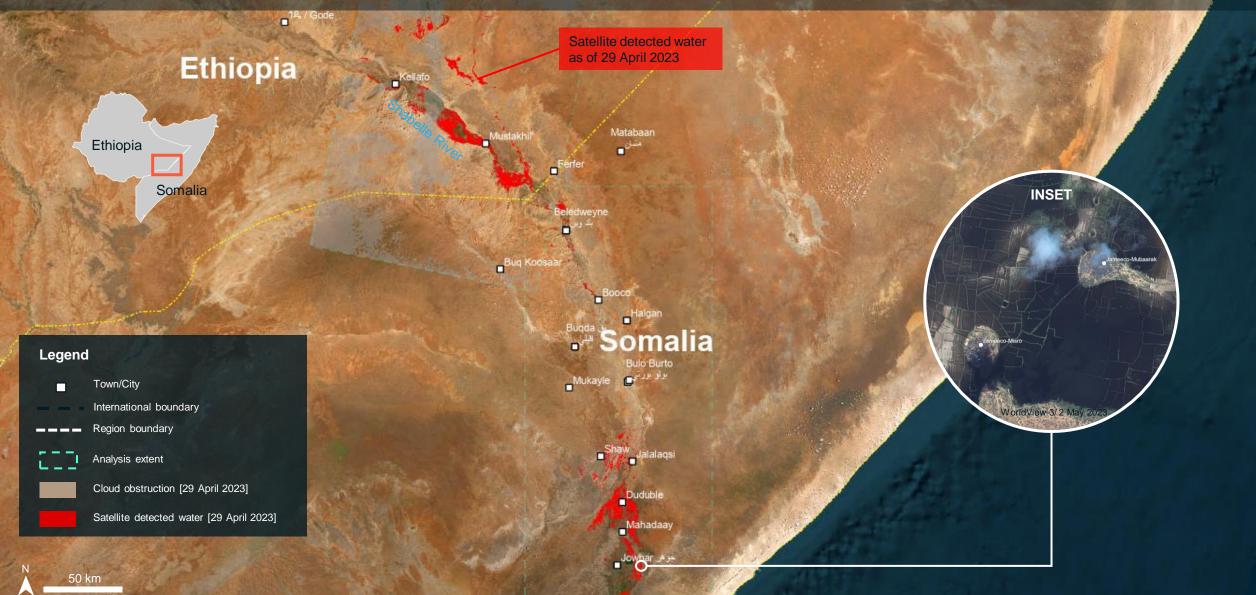
A Reading .

3 May 2023



FLOODS ALONG THE SHABELLE RIVER





Background: ESRI Basemap

The boundaries and names shown, and the designations used on this map do not imply official endorsement or acceptance by the United Nations. The United Nations Satellite Centre - UNOSAT is not responsible for the misuse or misrepresentation of the map.

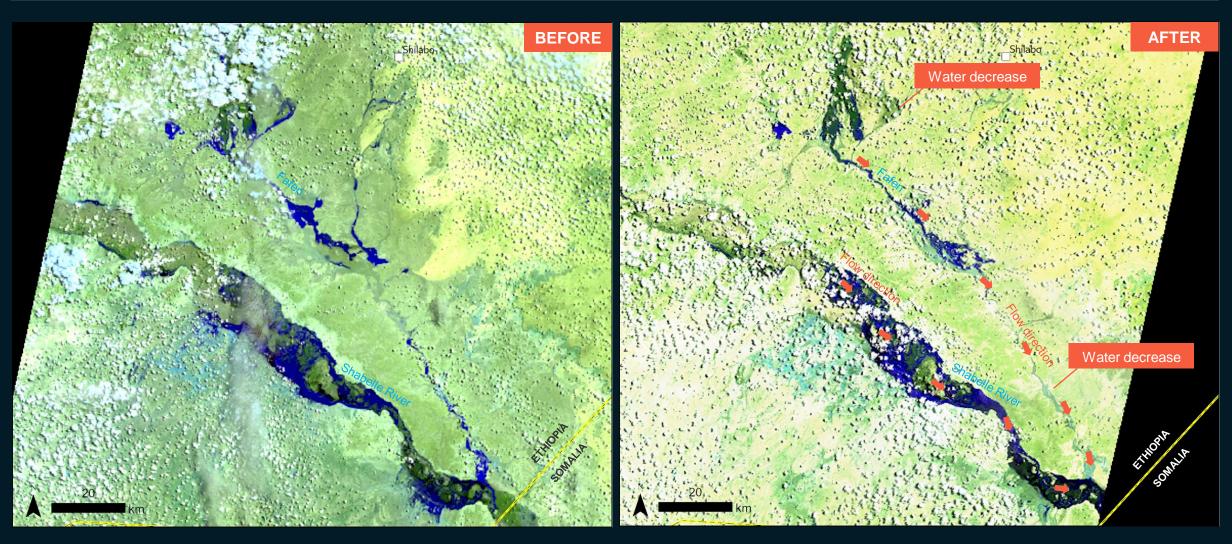
AOI1-FLOODS ALONG THE SHABELLE RIVER, SOMALI REGION, ETHIOPIA

Image center: 44.5588180°E 5.6010660°N





Water decrease and moved down towared Somalia



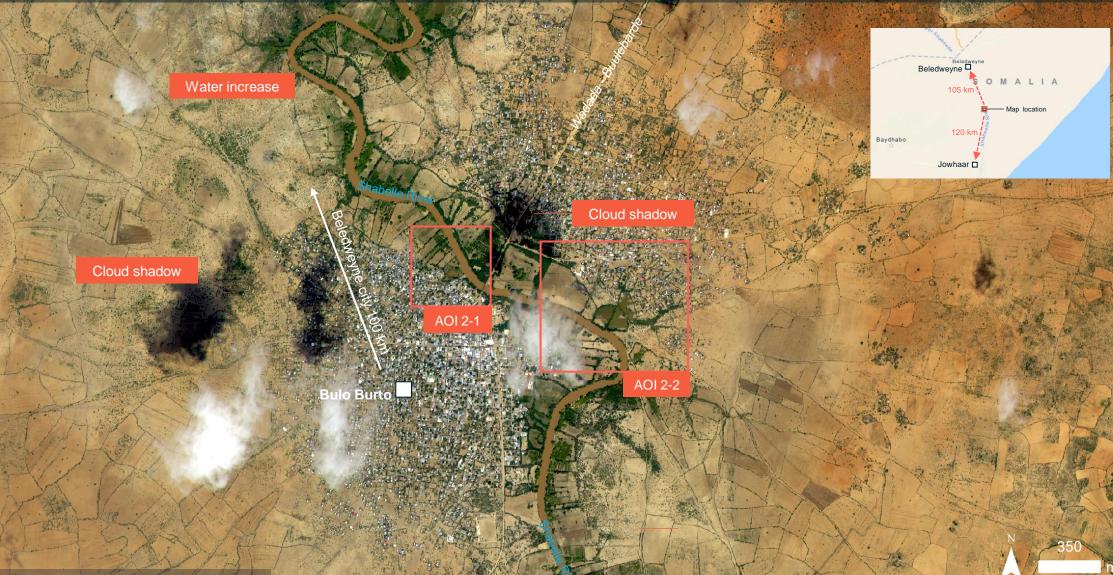
Landsat-9 / False colour composite / 29 April 2023

Sentinel-2 / False colour composite / 2 May 2023

AOI2 BULO BURTO CITY, BULO BURTO DISTRICT, HIRAAN REGION, SOMALIA

Increase of water extent along the Shabelle River





Worldview-03 image acquired on 2 May 2023, 07:26 UTC Image Center : 45°34'12"E 3°51'25"N

AOI2-1 BULO BURTO CITY, BULO BURTO DISTRICT, HIRAAN REGION, SOMALIA

Image center: 45°33'59"E 3°51'27"N Beledwayse Beledwayse 105 km 120 km 120 km Jowhaar h

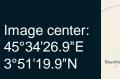


Increase of water extent along the Shabelle River



WorldView-3 / 2 May 2023

AOI2-2 BULO BURTO CITY, BULO BURTO DISTRICT, HIRAAN REGION, SOMALIA



105 km

120 km

Jowhaar 📩



Increase of water extent along the Shabelle River



AOI3 JOWHAAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Increase of water extent along the Shabelle River

Inundated agricultural areas



MALIA

Beledwevn



Cloud shadow

AOI 3-3

Worldview-03 image acquired on 2 May 2023, 07:26 UTC Image Center :45°29'59."E 2°46'31"N

AOI3-1 JOWHAAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Image center: 45°30'24"E 2°46'58"N



Inundated roads in urban areas

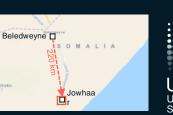


GeoEye-1 / 4 March 2023

WorldView-3 / 02 May 2023

AOI3-2 JOWHAAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Image center: 45°30'24"E 2°46'44"N





Increase of water along the Shabelle River



AOI3-3 JOWHAAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Image center: 45°30'05"E 2°46'09"N Beledwevne



Inundated agricultural areas and increase of water extent along the Shabelle River



WorldView-3 / 02 May 2023

AOI3-4 JOWHAAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Image center: 45°29'58"E 2°44'08"N





Flooded agricultural area



WorldView-2 / 3 April 2023

AOI4 SOTHEAST OF JOWHAAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

United Nations Institute for Training and Research

Floods waters observed surrounding villages



A014-1 JAMEECO-MISRO VILLAGE , MIDDLE SHEBELLE REGION, SOMALIA

Image center: 45.6243143°E 2.7063850°N



Flooded agricultural area and Inundated road



ESRI Basemap

A014-2 JAMEECO-MUBAARAK VILLAGE , MIDDLE SHEBELLE REGION, SOMALIA

Image center: 45.6347711°E 2.7131920°N

Jowhaa ___



Flooded agricultural area and Inundated road



ESRI Basemap

AOI4-3 QAJAFEY VILLAGE , MIDDLE SHEBELLE REGION, SOMALIA

Flooded agricultural area and Inundated road

Image center: 45.6384357°E 2.7385077°N





ESRI Basemap

SUMMARY OF FINDINGS

United Nations Satellite Centre

- Flood water along the Shabelle River in Somali Region, Ethiopia decrease and moved down toward Somalia as of 2 May 2023;
- Increase of water extent along the Shabelle River observed in Bulo Burto City, Bulo Burto District, Hiraan Region, and Jowhaar City, Middle Shebelle Region, Somalia as of 2 May 2023;
- Inundated agricultural areas observed in Jowhaar City and surrounding, Middle Shebelle Region, Somalia as of 2 May 2023;
- Inundated roads in urban areas observed in Jowhaar City and villages surrounding, Middle Shebelle Region, Somalia as of 2 May 2023;
- Floods waters observed surrounding villages of Jameeco-Misro, Jameeco-Mubaarak, Qajafey, Buulo-Feermo, Sabdow, and Reer Caddow, Southeast of Jowhaar City, Middle Shebelle region, Somalia as Of 2 May 2023;

COPYRIGHTS & SOURCES



Data sources:

(1) Satellite Image (Post-event): Sentinel-2
Acquisition date: 2 May 2023
Resolution: 10 m
Copyright : Contains modified Copernicus Sentinel data [2023]
Source : ESA

(2) Satellite Image (Post-event): Worldview-3 Acquisition date : 2 May 2023 Resolution: 50 cm Copyright: © 2023 DigitalGlobe, Inc., Longmont CO USA 80503. Source: USGS

(3) Satellite Image (Pre-event): Worldview-2 Acquisition date : 3 April 2023 Resolution: 50 cm Copyright: © 2023 DigitalGlobe, Inc., Longmont CO USA 80503. Source: USGS

(4) Satellite Image (Pre-event): GeoEye-1
Acquisition date : / 4 March 2023
Resolution: 50 cm
Copyright: © 2023 DigitalGlobe, Inc., Longmont CO USA 80503.
Source: USGS

(5) Satellite Image (Pre-event): Landsat-9 Acquisition date : 29 April 2023 Resolution: 30 m Copyright: USGS/NASA Landsat Program Source: USGS

ESRI Basemap

(6) Ancillary data

Administrative boundaries: OCHA Regional Office for Southern and Eastern Africa (ROSEA) Populated place: OpenStreetMap Waterway: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT) Production: United Nations Satellite Centre (UNOSAT)

The boundaries and names shown, and the designations used on this map do not imply official endorsement or acceptance by the United Nations. The United Nations Satellite Centre - UNOSAT is not responsible for the misuse or misrepresentation of the map.





UNOSAT, United Nations Institute for Training and Research (UNITAR)7 bis, Avenue de la Paix, CH-1202 Geneva 2, Switzerland

T +41 22 917 4720 E unosat@unitar.org www.unosat.org