


23 May 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



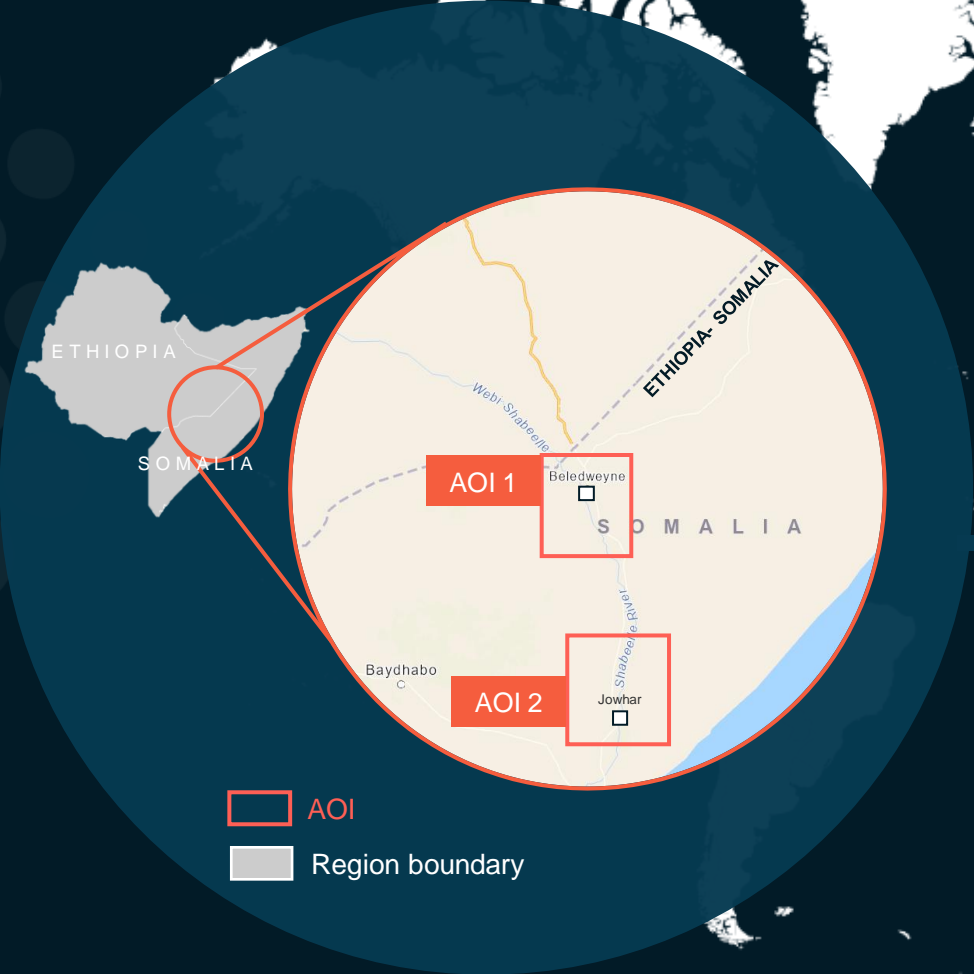
Beledweyne City, Hiraan Region, and Jowhar City, Middle Shebelle Region Somalia

 Status: Increased of water extent along Shabelle River observed

 Further action(s): Continue monitoring

SOMALIA

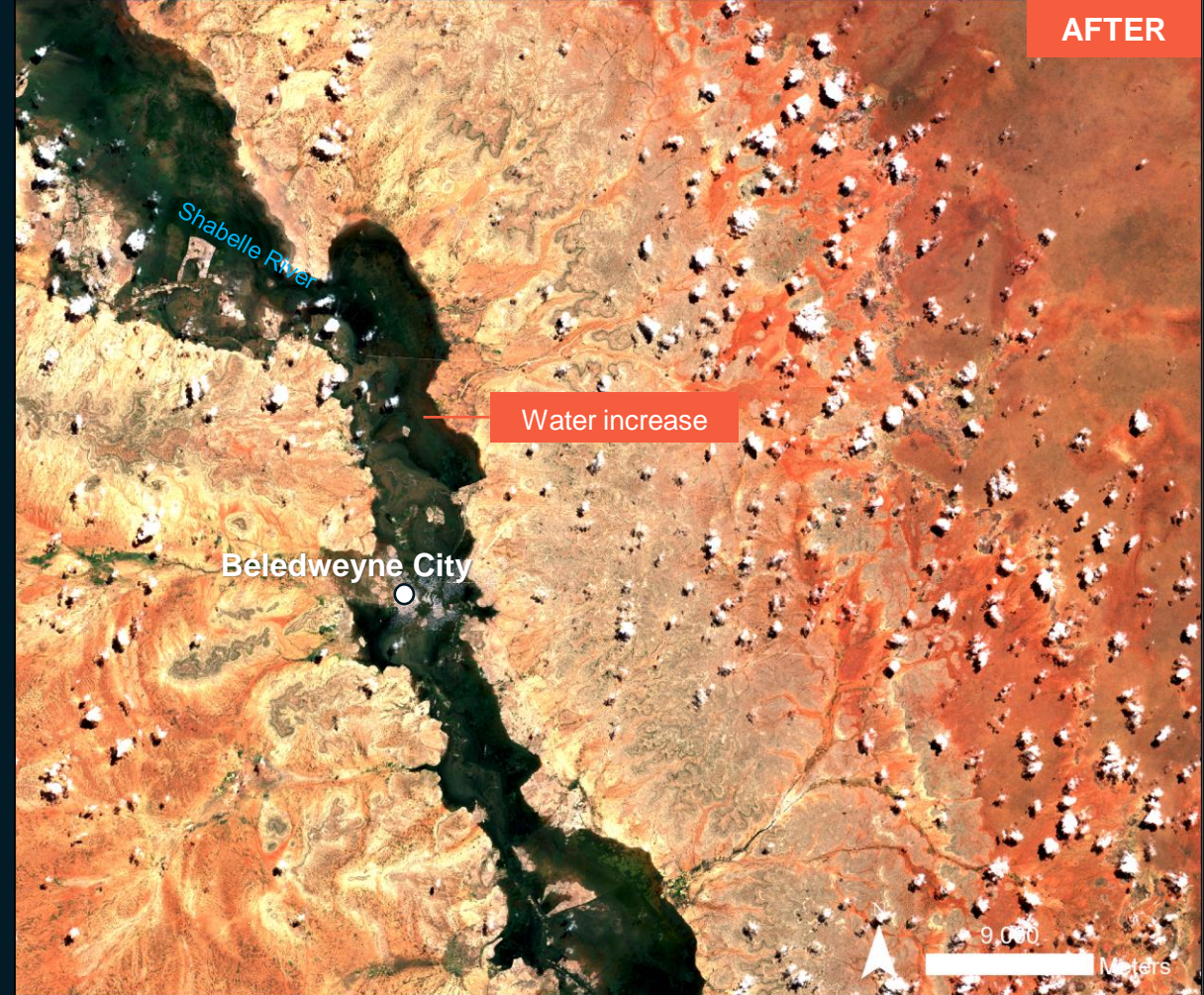
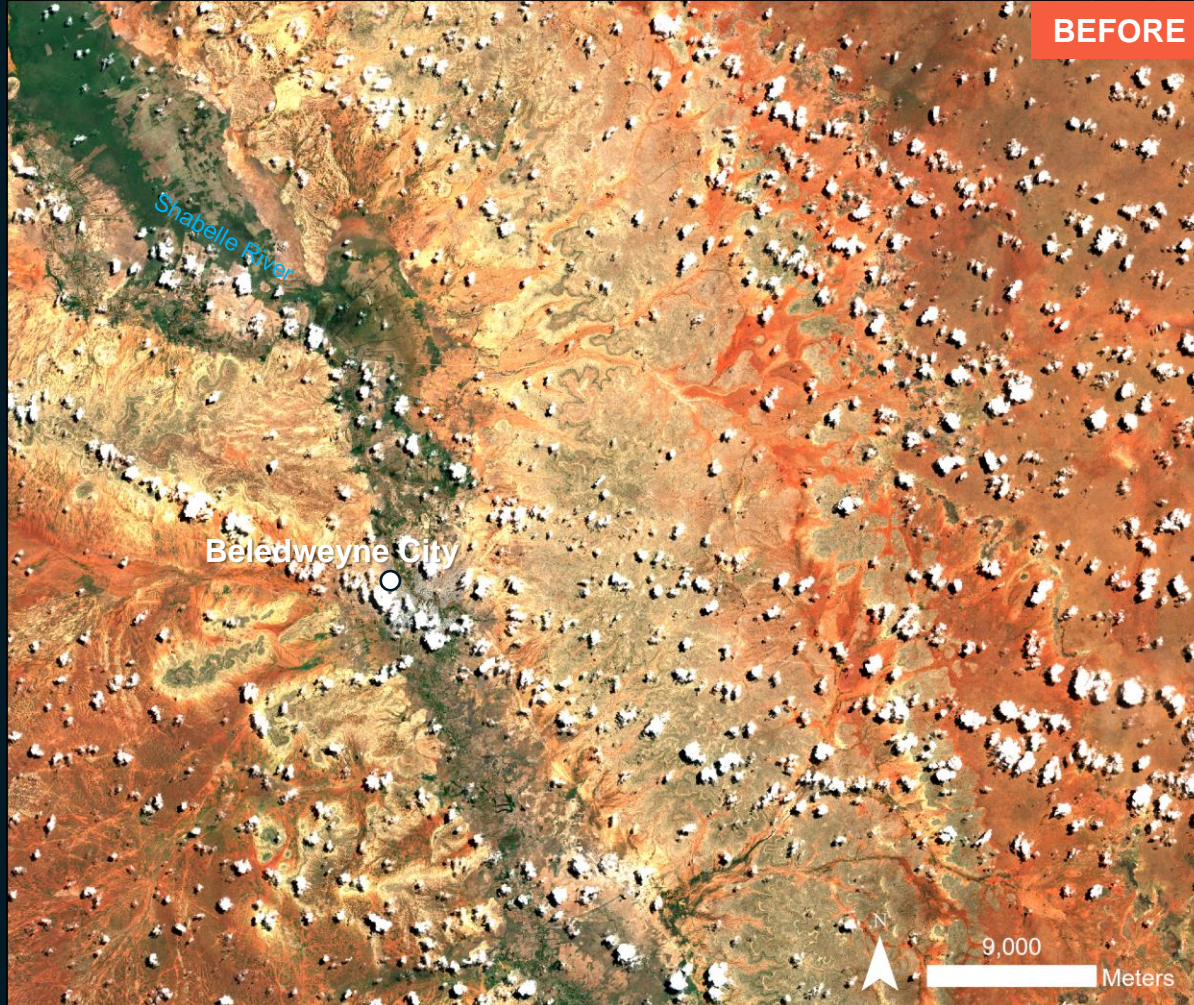
23 May 2023



AOI1-BELEDWEYNE CITY AND SURROUNDINGS, BELED WEYNE DISTRICT, HIRAAN REGION, SOMALIA

Increase of water extent along the Shabelle River

Image center:
45°17'11"E
4°44'7"N



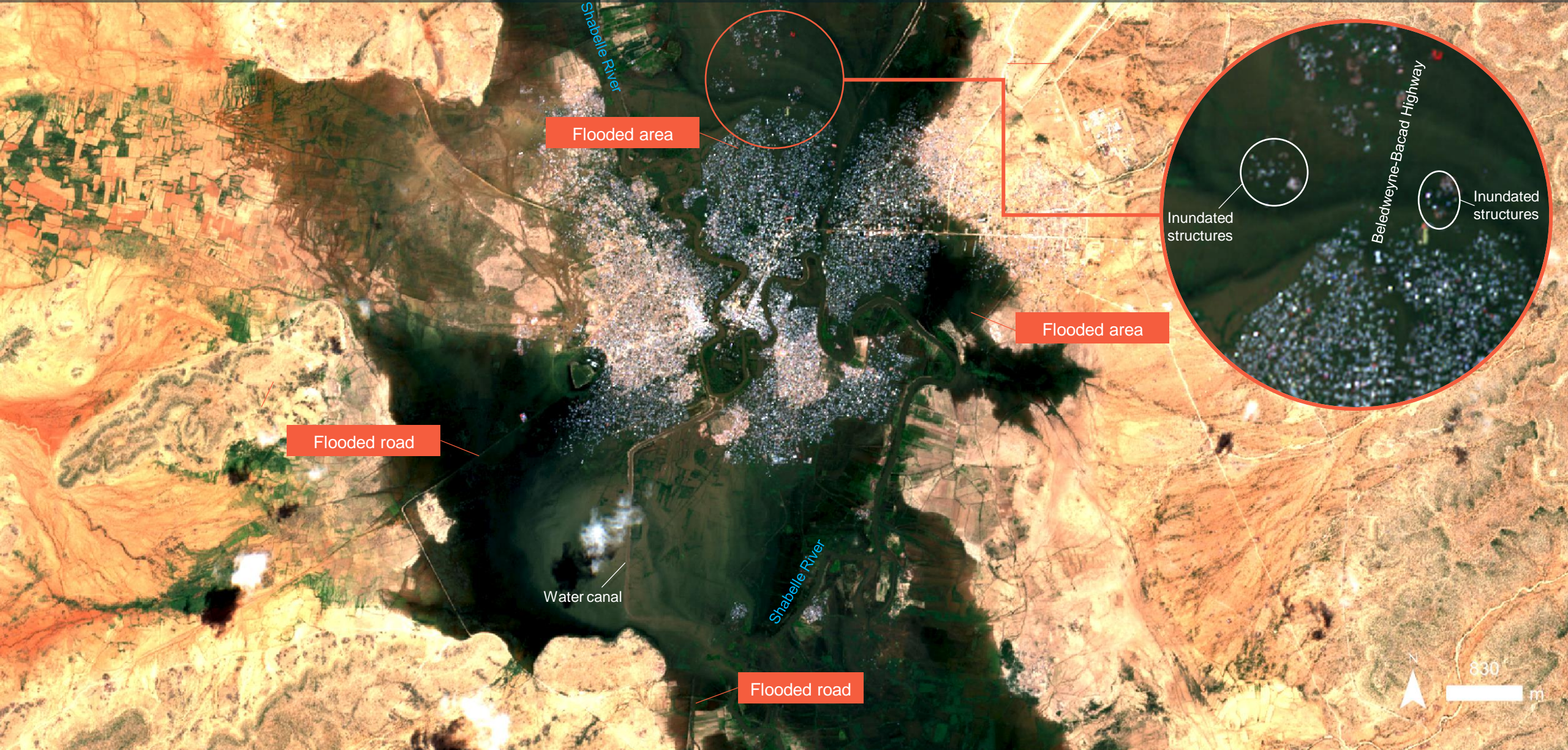
Sentinel-2 / 29 April 2023

Sentinel-2 / 19 May 2023

AO11 BELEDWEYNE CITY, BELED WEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded infrastructures and roads

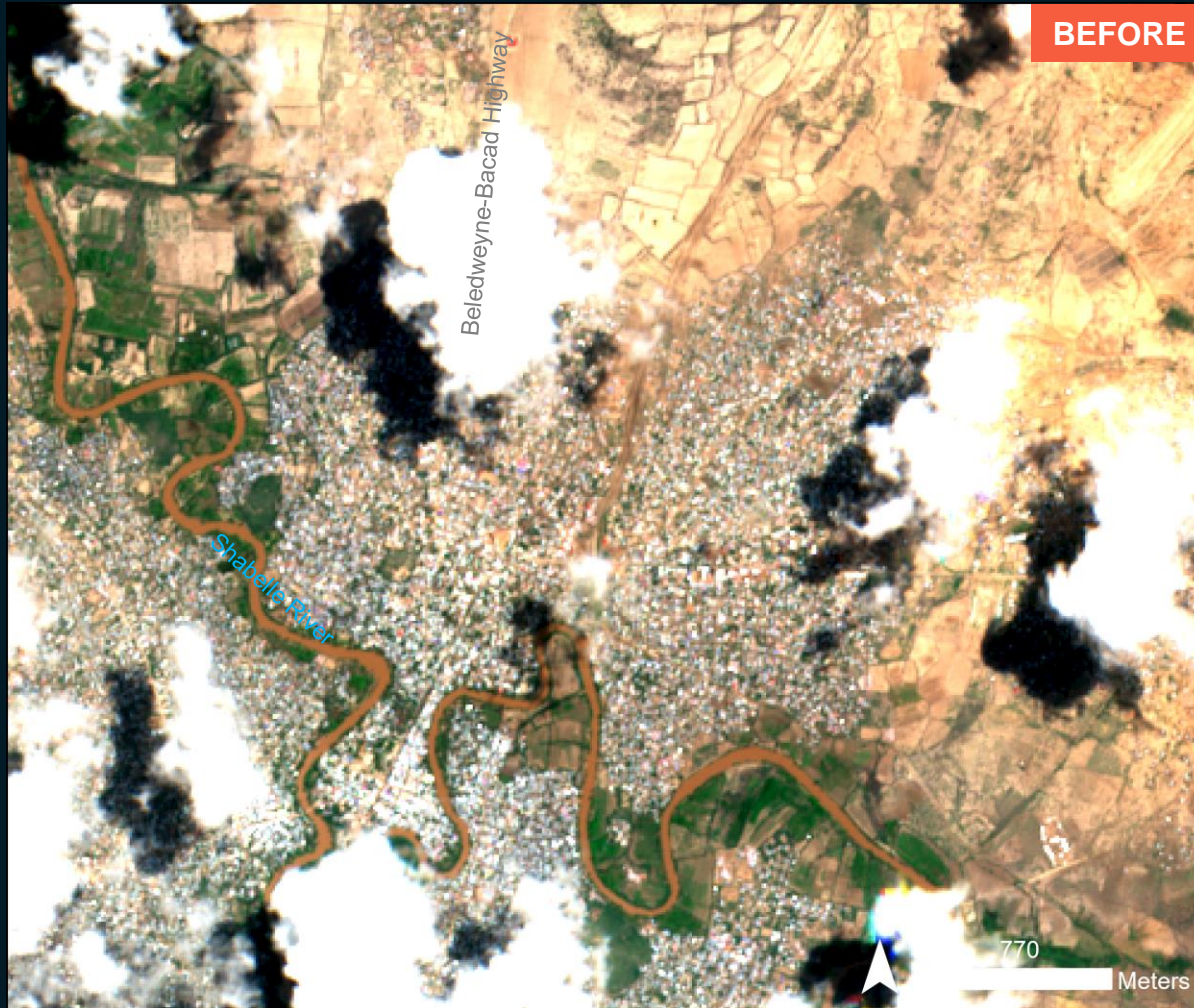
Image center:
45°12'16"E
4°44'39"N



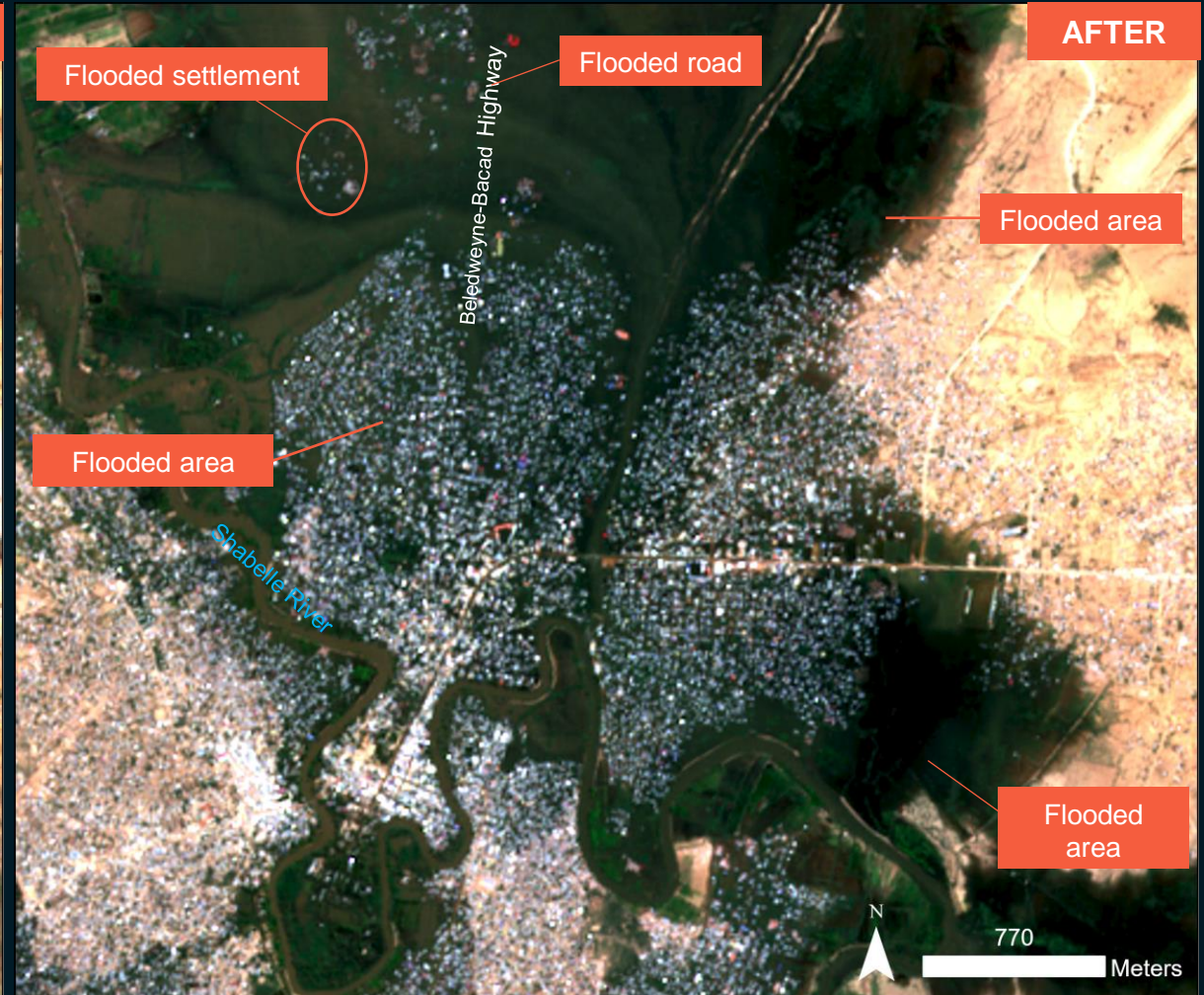
AOI1-1 BELEDWEYNE CITY, BELED WEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded area and affected structures

Image center:
45°12'16"E
4°44'39"N



Sentinel-2 | 29 April 2023

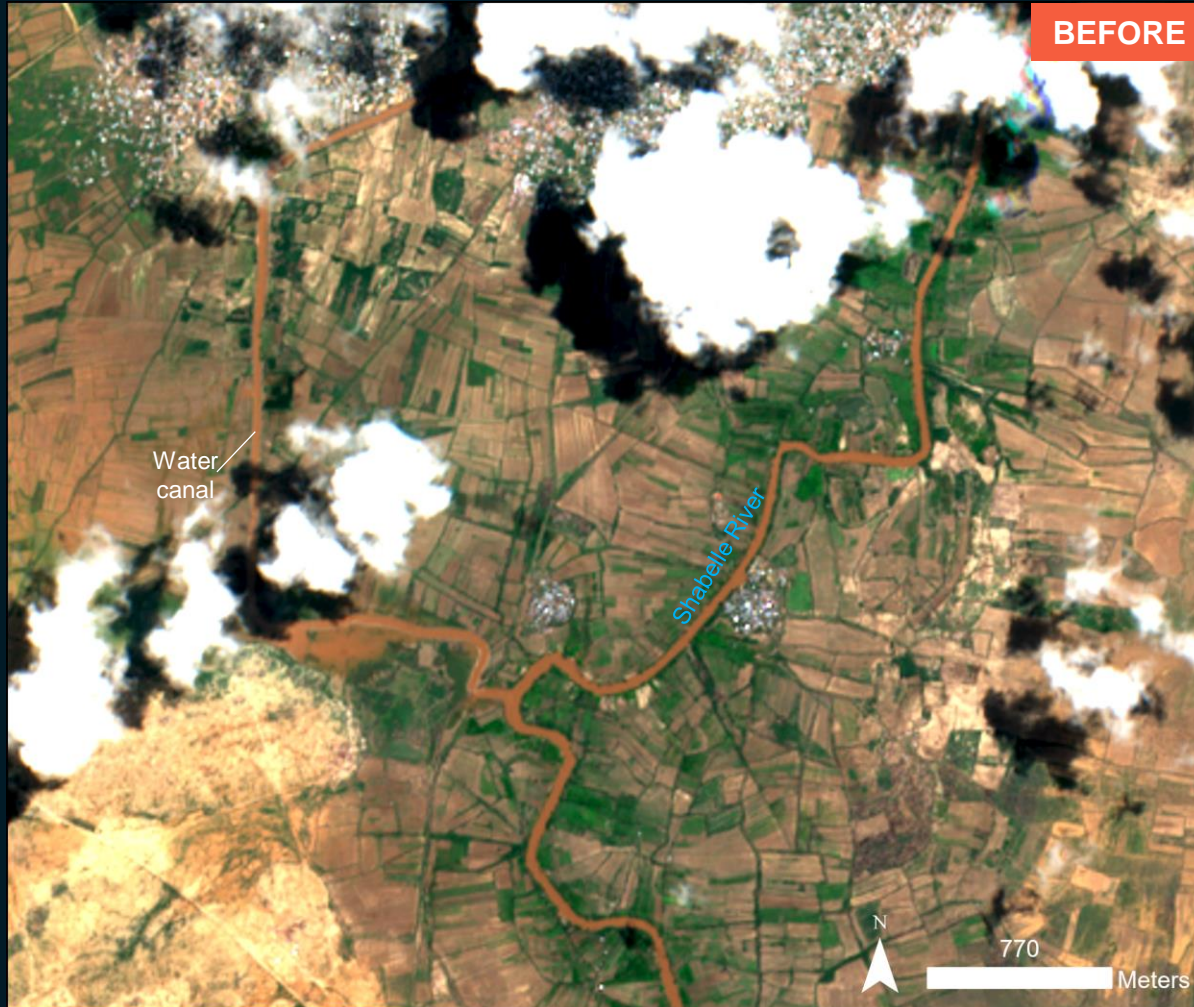


Sentinel-2 | 19 May 2023

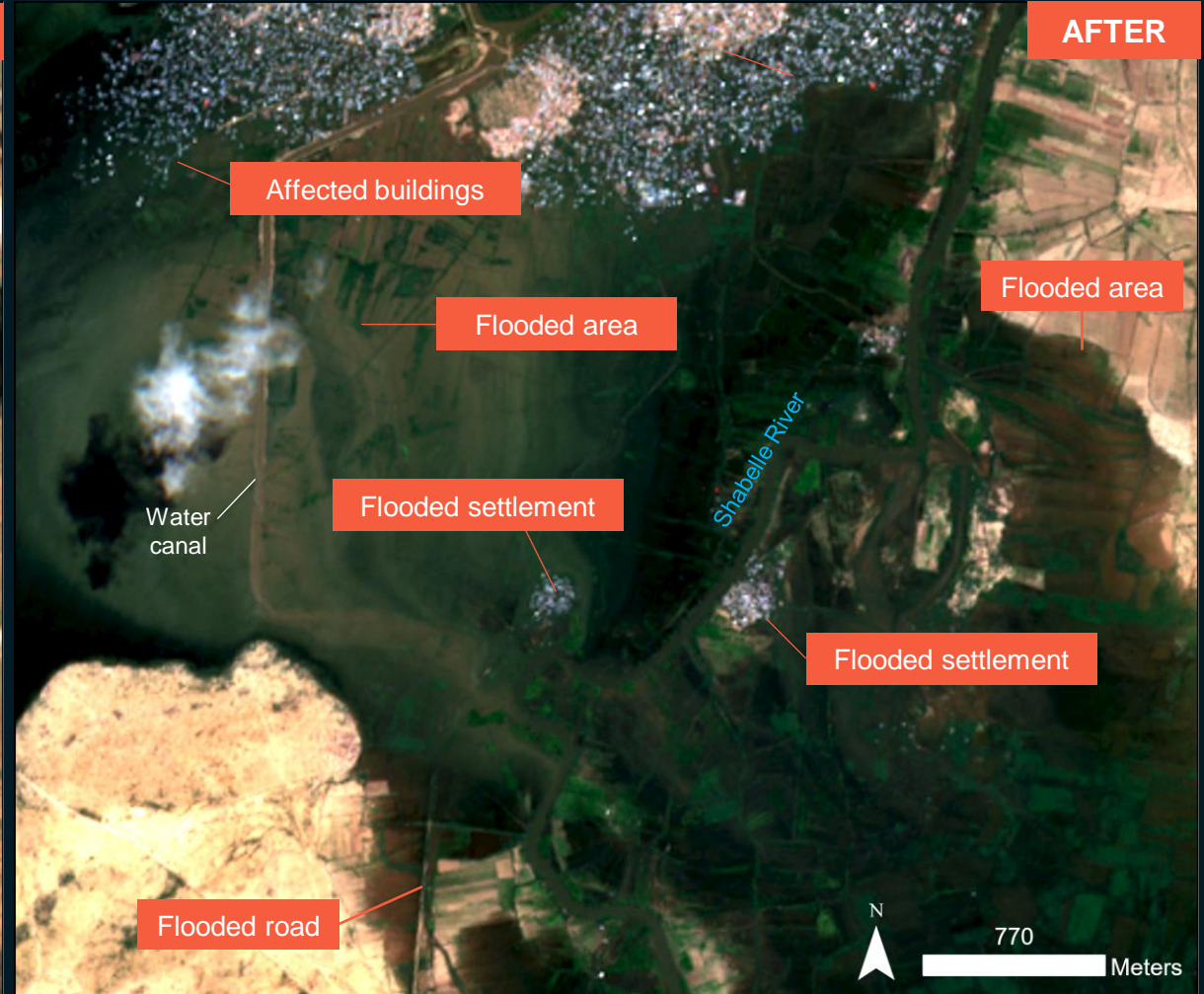
AOI1-2 BELEDWEYNE CITY, BELED WEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded area and flooded structures

Image center:
45°11'41"E
4°42'59"N



Sentinel-2 | 29 April 2023

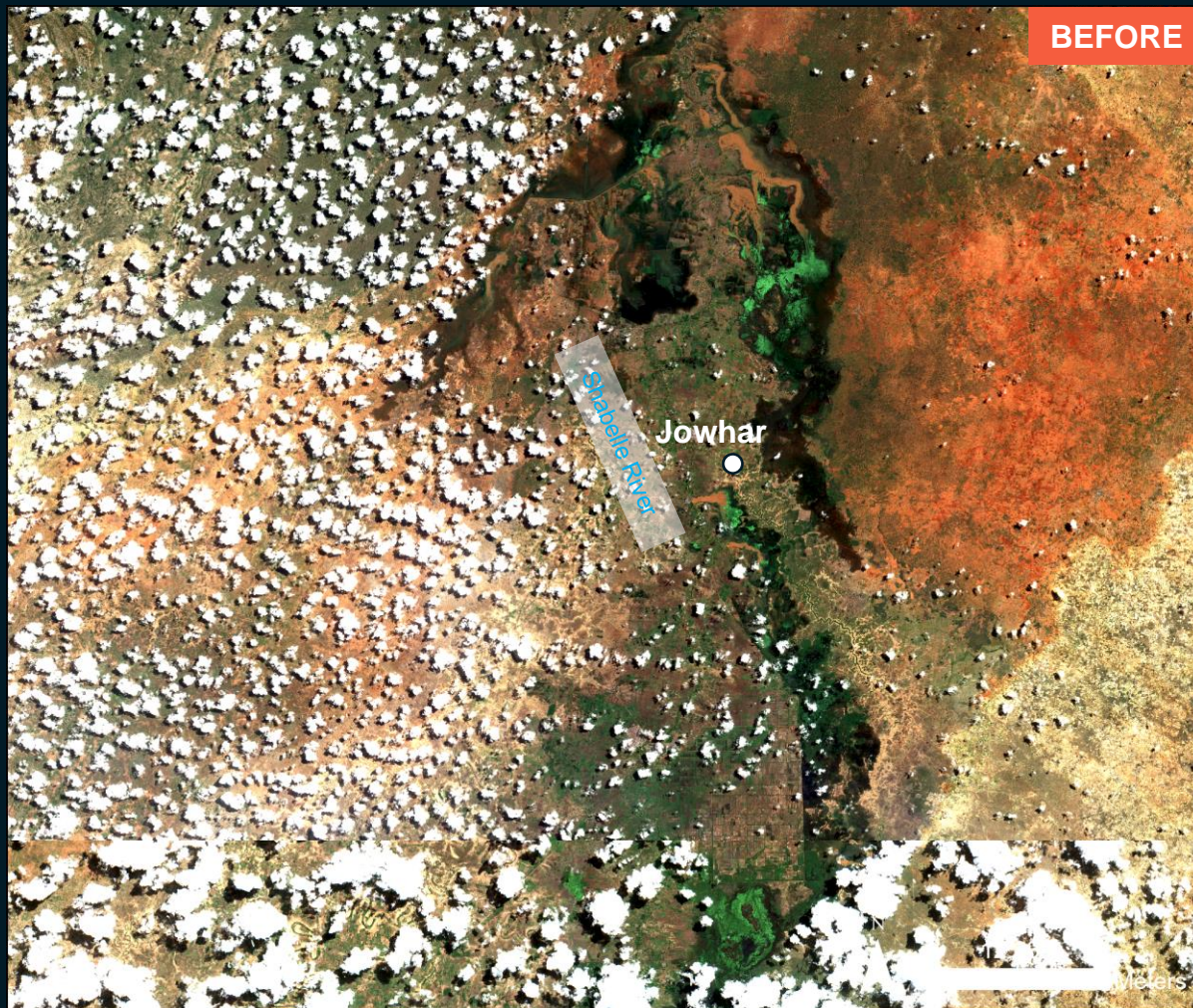


Sentinel-2 | 19 May 2023

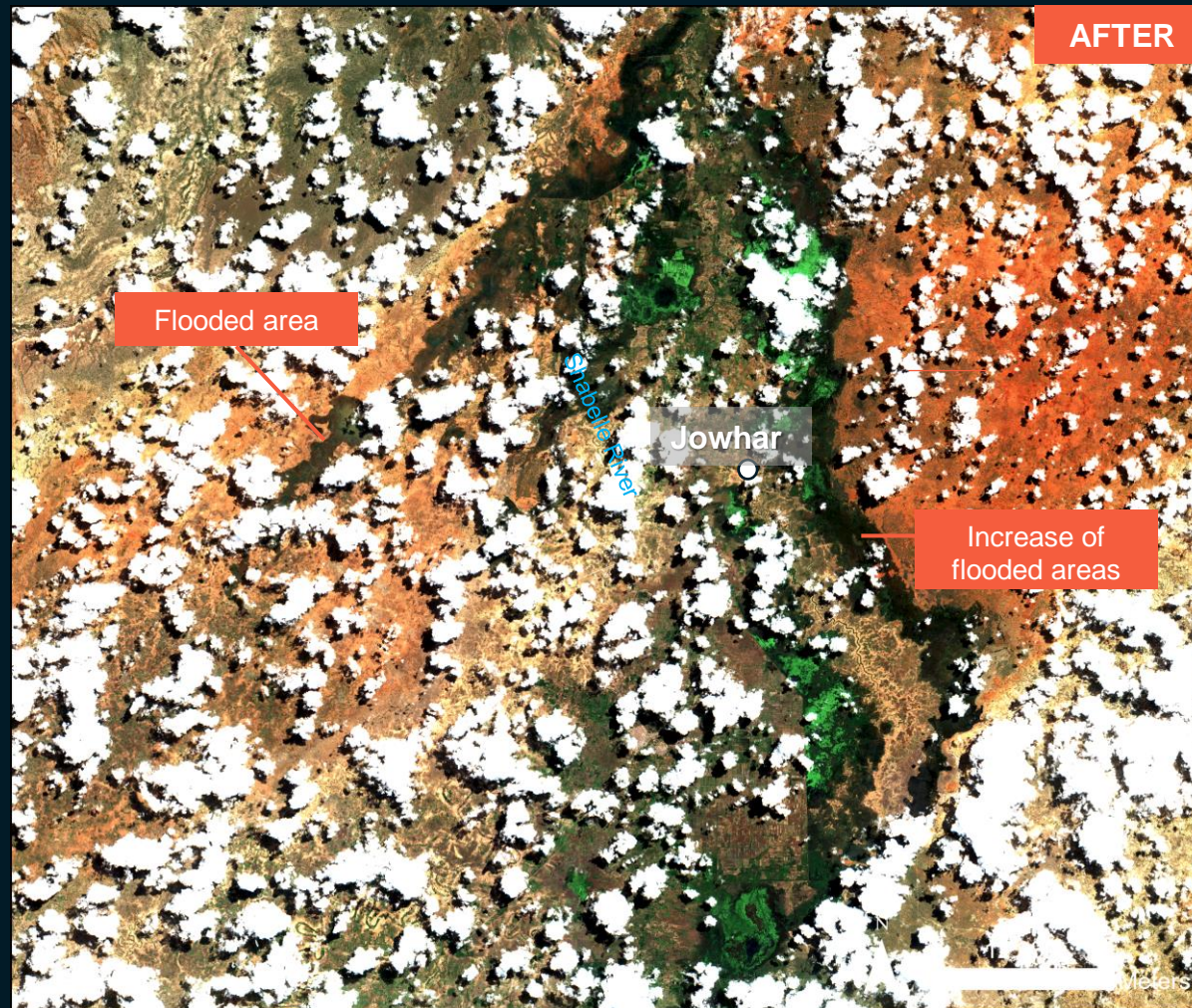
AOI2 JOWHAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Increase of water extent along the Shabelle River

Image center:
45°30'17"E
3°0'56"N



BEFORE



AFTER

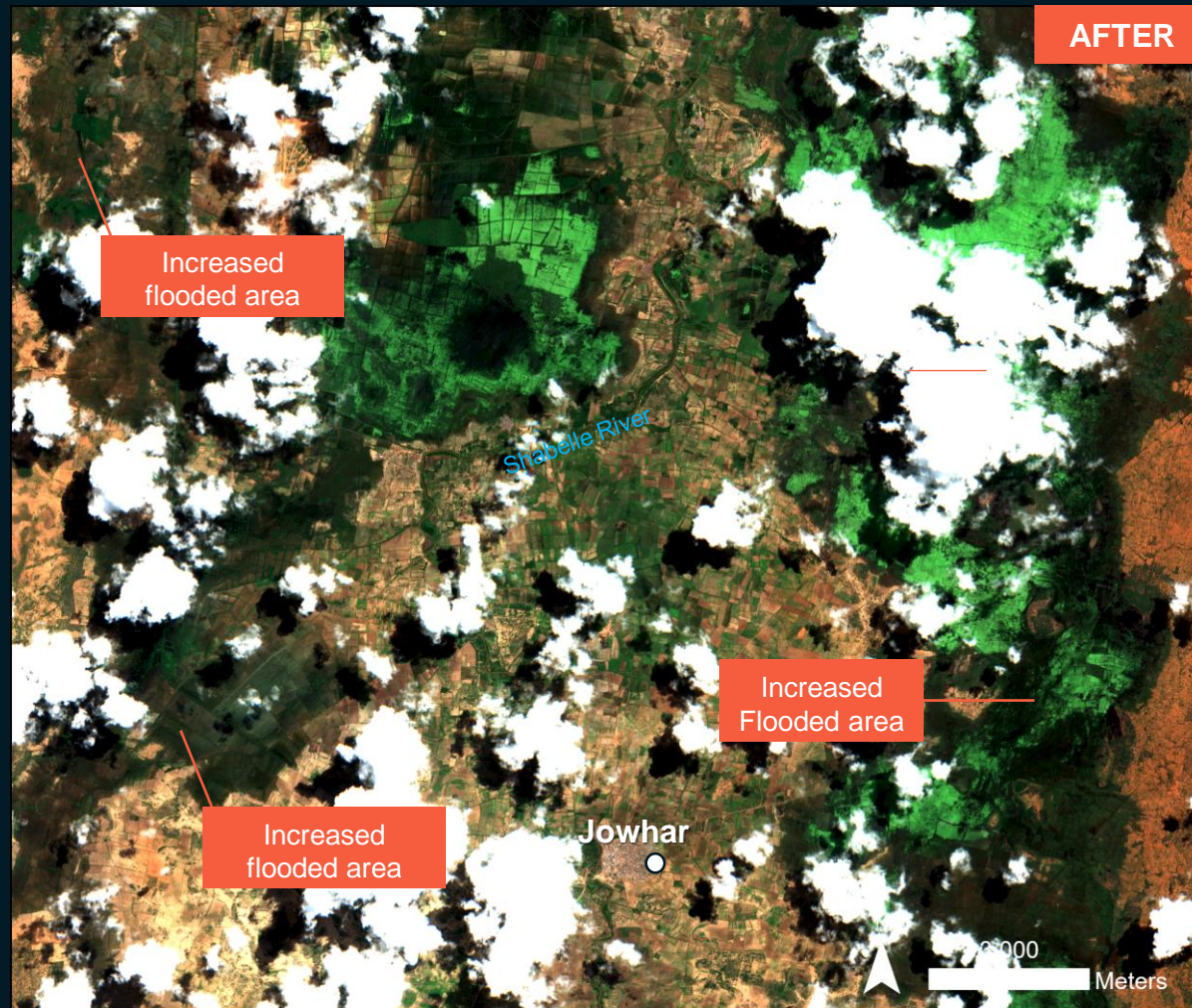
AOI2 JOWHAR CITY, MIDDLE SHEBELLE REGION, SOMALIA

Increase of the flooded area

Image center:
45°31'57"E
2°58'25"N



BEFORE



AFTER

Sentinel-2 | 29 April 2023

Sentinel-2 | 19 May 2023

SUMMARY OF FINDINGS

- Increase of water extent observed along the Shabelle River in Beled Weyne District, Hiraan Region, Somalia, as of 19 May 2023 compared with 29 April 2023 and 9 May 2023 situations;
- Increase of flooded area, affected structures and affected roads observed in Beledweyne as of 19 May 2023;
- Flooded area observed along the Shabelle River between Buloburto and Jowhar City (Middle Shebelle) as of 19 May 2023.

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Data sources:

(1) Satellite Image (Post-event): Sentinel-2

Acquisition date: 19 May 2023

Resolution: 10 m

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Source : ESA

(2) Satellite Image (Pre-event): Sentinel-2

Acquisition date : 29 April 2023

Resolution: 10 m

Copyright : Contains modified Copernicus Sentinel data [2023]

Source : ESA

(3) 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)

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