


11 April 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



Beledweyne City, Hiraaan Region, Somalia & Kelafo Woreda, Shabelle Zone, Somali Region, Ethiopia

 Status: Increased water extent along the Shabelle River

 Further action(s): continue monitoring

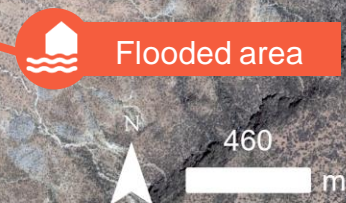
SOMALIA & ETHIOPIA

11 April 2023



AOI 1 : Kelafo Woreda, Shabelle Zone, Somali Region, Ethiopia

Flooded area and increased water along the Shabelle River



AOI 1-1: Kelafo Woreda, Shabelle Zone, Somali Region, Ethiopia

Increased water along the Shabelle river

Image center:
05°35'05"N
45°12'09"E
4°47'16.3"N
45°11'57.2"E



AOI 1-2: Kelafo Woreda, Shabelle Zone, Somali Region, Ethiopia

Flooded road

Image center:
05°34'31"N
44°13'06"E
4°47'16.3"N
45°11'57.2"E



AOI 2 : Beledweyne District, Hiraan Region, Somalia

Flooded area and increased water along the Shabelle River



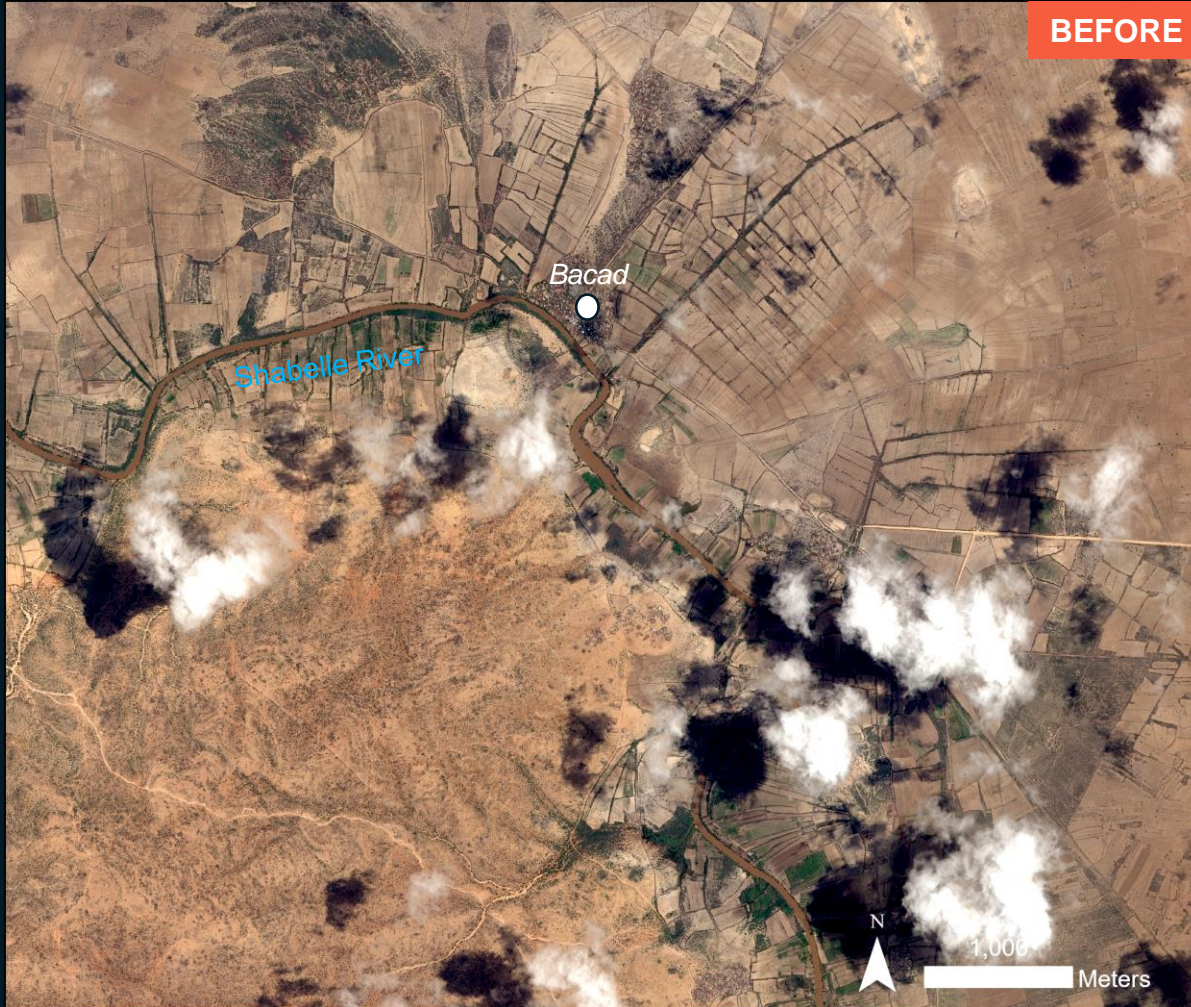
Beledweyne City



AOI 2-1: Bacad Village, Beledweyne District, Hiraan Region, Somalia

Potentially affected village along the Shabelle River

Image center:
4°51'15"N
45°08'56"E



SPOT-6 / 30 March 2023

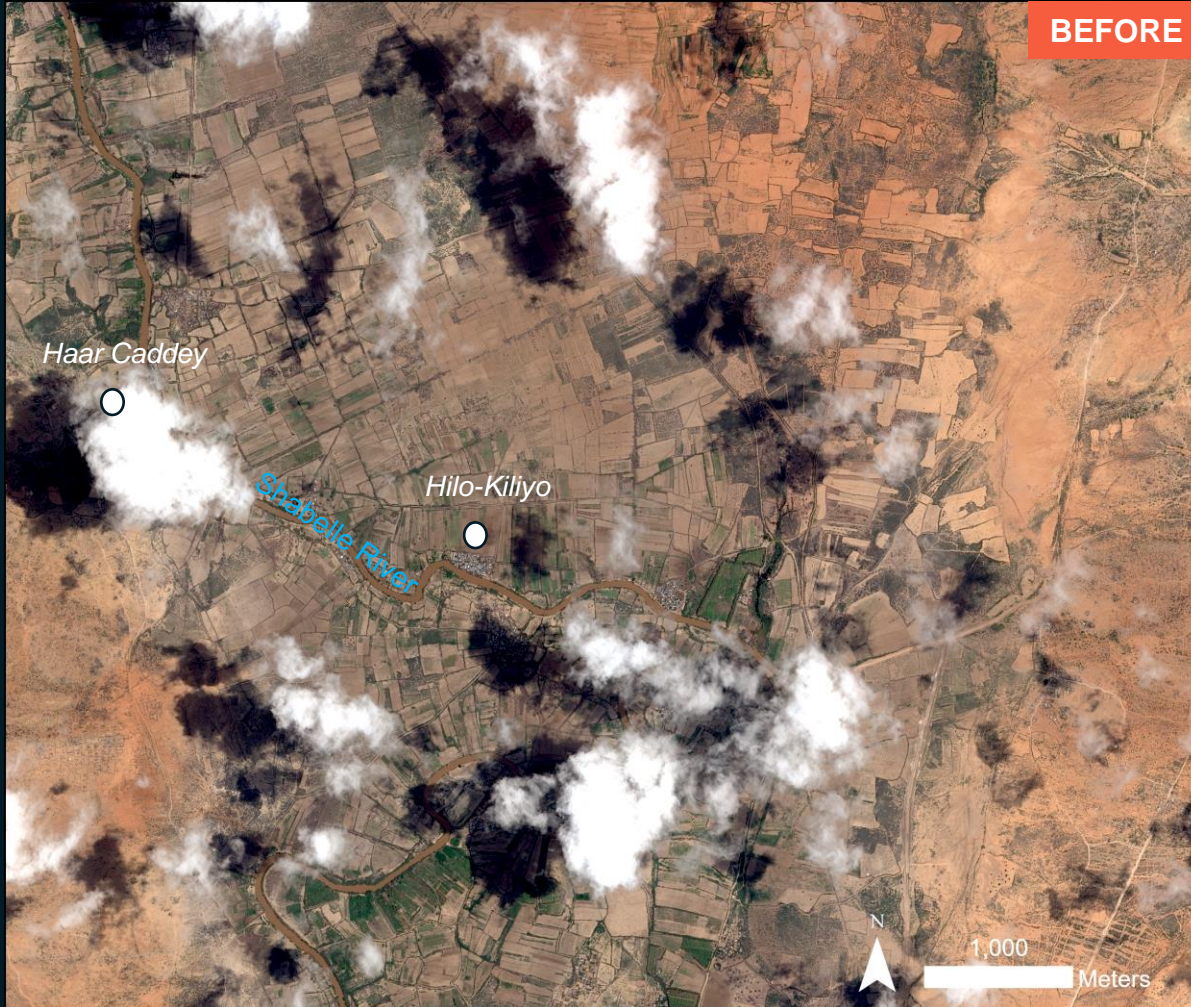


Sentinel-2 / 09 April 2023

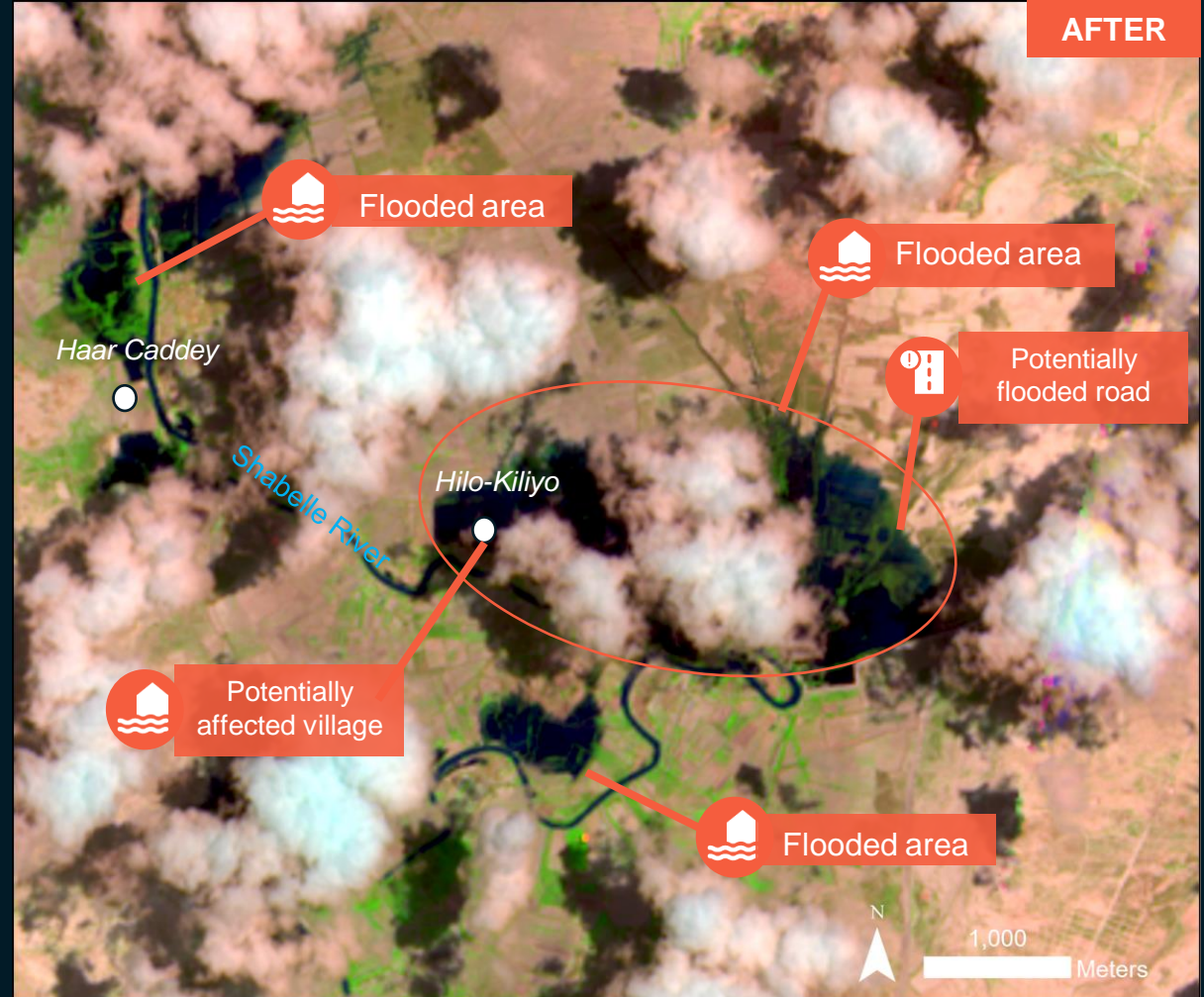
AOI 2-2: Beledweyne District, Hiraan Region, Somalia

Flooded areas and potentially affected village along the Shabelle River

Image center:
4°47'29.2"N
45°12'09.3"E



SPOT-6 / 30 March 2023



Sentinel-2 / 09 April 2023

AOI 3: Beledweyne City, Beledweyne District, Hiraan Region, Somalia

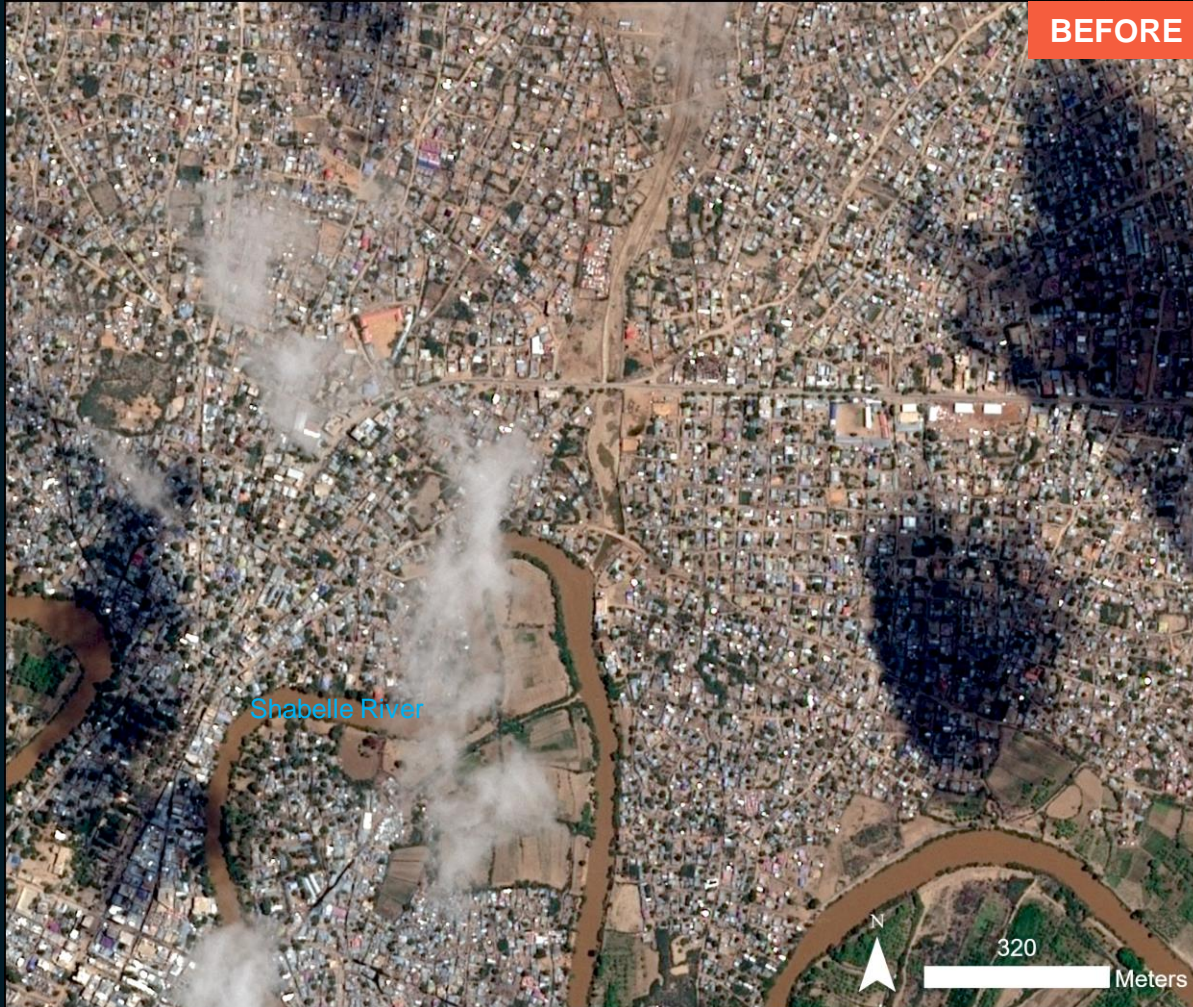
Flooded area and increased water along the Shabelle River



AOI 3-1: Beledweyne City, Beledweyne District, Hiraan Region, Somalia

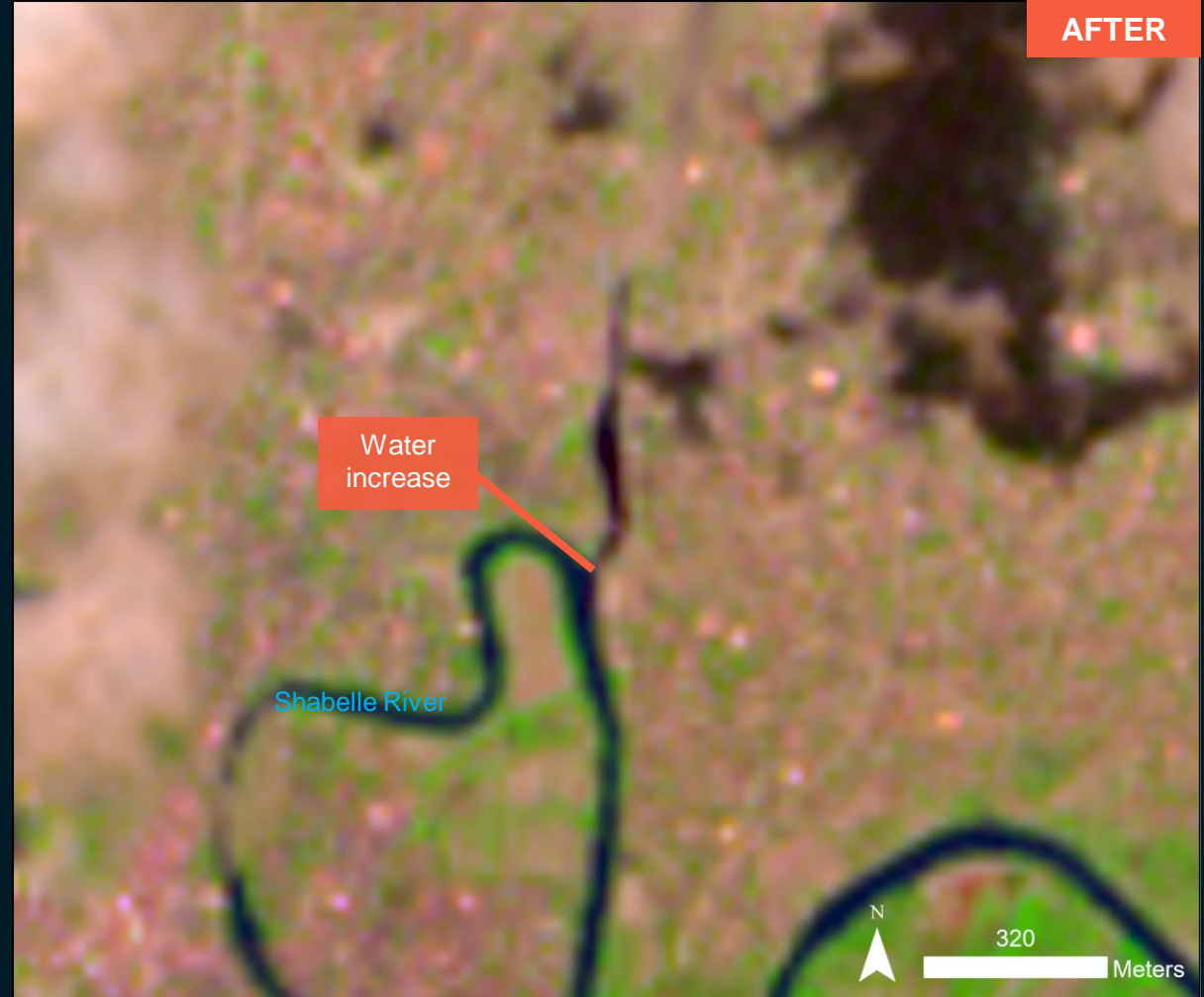
Increased water along the Shabelle River

Image center:
4°44'40"N
45°12'40"E



BEFORE

SPOT-6 / 30 March 2023



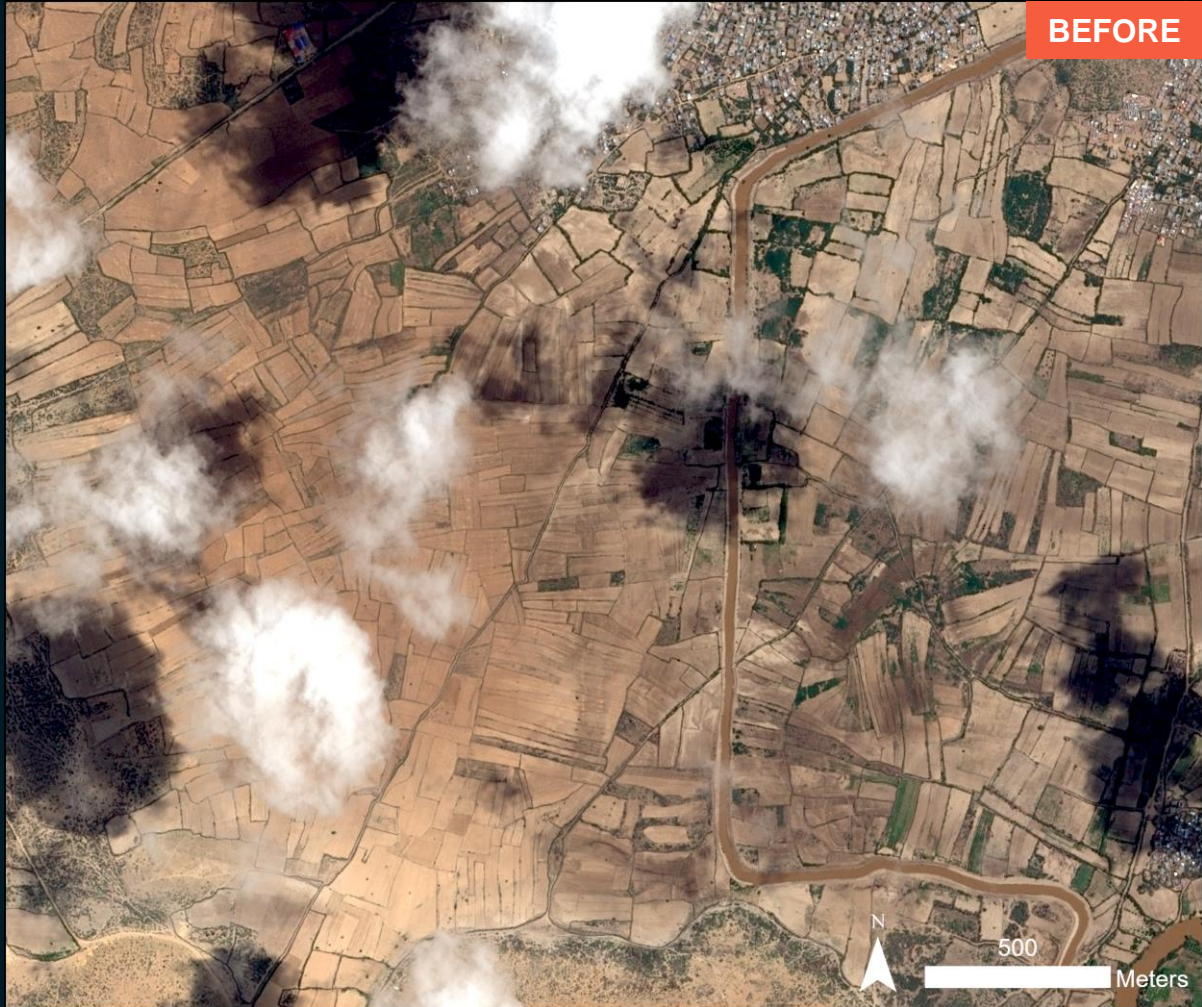
AFTER

Sentinel-2 / 09 April 2023

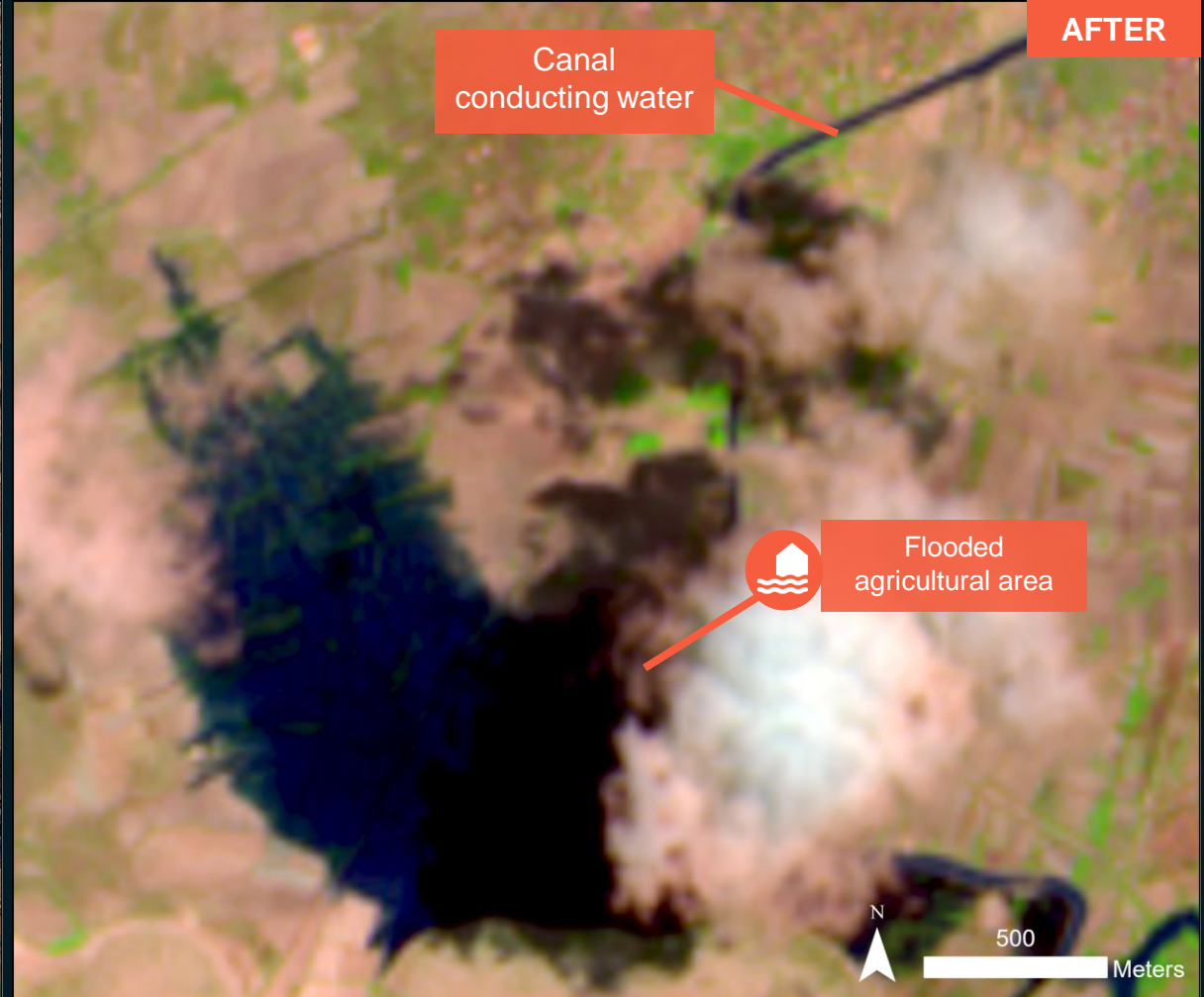
AOI 3-2: Beledweyne City, Beledweyne District, Hiraan Region, Somalia

Flooded agricultural area alongside the canal conducting water

Image center:
4°43'35"N
45°12'03"E



SPOT-6 / 30 March 2023



Sentinel-2 / 09 April 2023

SUMMARY OF FINDINGS

- Swollen Shabelle river observed alongside Kellafo Town as of 09 April 2023;
- Flooded area observed in Kelafo Woreda, Shabelle Zone, Somali Region as of 09 April 2023;
- Flooded area and potentially flooded villages observed north of Beledweyne City, Beledweyne District, Hiraaan Region, Somalia as of 09 April 2023;
- Swollen Shabelle river observed in Beledweyne City as of 09 April 2023;
- Flooded agricultural area close to water canal observed southwest of Beledweyne City as of 09 April 2023.

COPYRIGHTS & SOURCES

Data sources:

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

Acquisition date : 09 April 2023

Resolution: 50cm

Copyright: © (2023) DigitalGlobe, Inc., Longmont CO USA 80503.

Source: USGS

Satellite Image (Post-event): Sentinel-2

Acquisition date : 09 April 2023

Resolution: 10m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

(2) Satellite Image (Pre-event): ESRI Basemap

Satellite Image (Post-event): SPOT-6

Acquisition date : 30 March 2023

Resolution: 1.5m

Copyright: Includes material © AIRBUS DS (2023)

Source: CNES / SPOT6

(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)

 **@UNOSAT**

 **@UNITAR.unosat**



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