

03 April 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



Beledweyne City, Hiraan Region, Somalia & Ferfer Woreda, Somali Region, Ethiopia

 Status: Increased water extent along the Shabelle River

 Further action(s): continue monitoring

SOMALIA & ETHIOPIA

03 April 2023



AOI 1 : Ferfer Woreda, Shabelle District, Somali Region, Ethiopia

Flooded agricultural area and increased water along the Shabelle River



Flooded area

Shabelle River



Flooded area

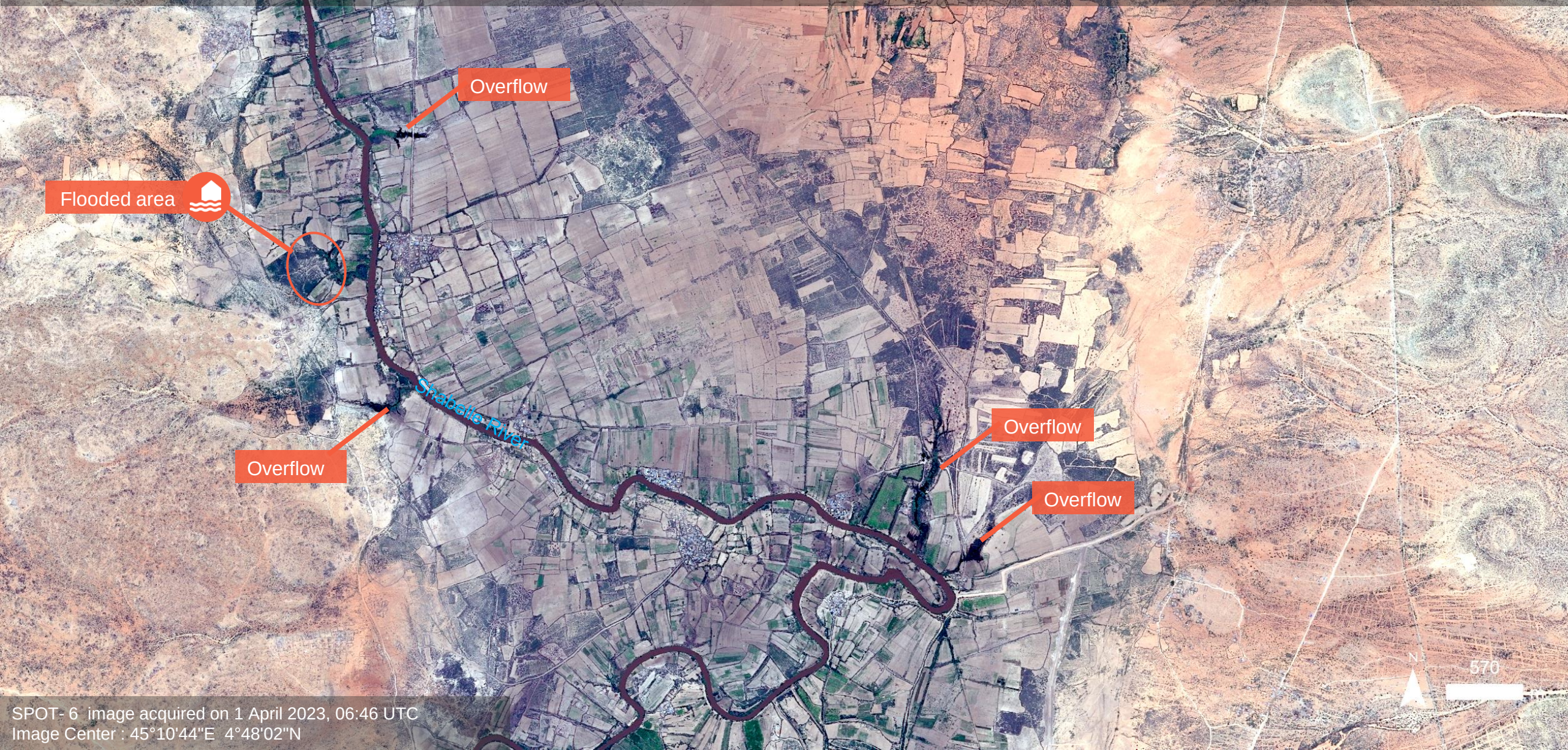


600

m

AOI 2 : Beledweyne District, Hiraan Region, Somalia

Increased water and overflow along the Shabelle River



Flooded area



Overflow

Overflow

Overflow

Overflow

Shabelle River

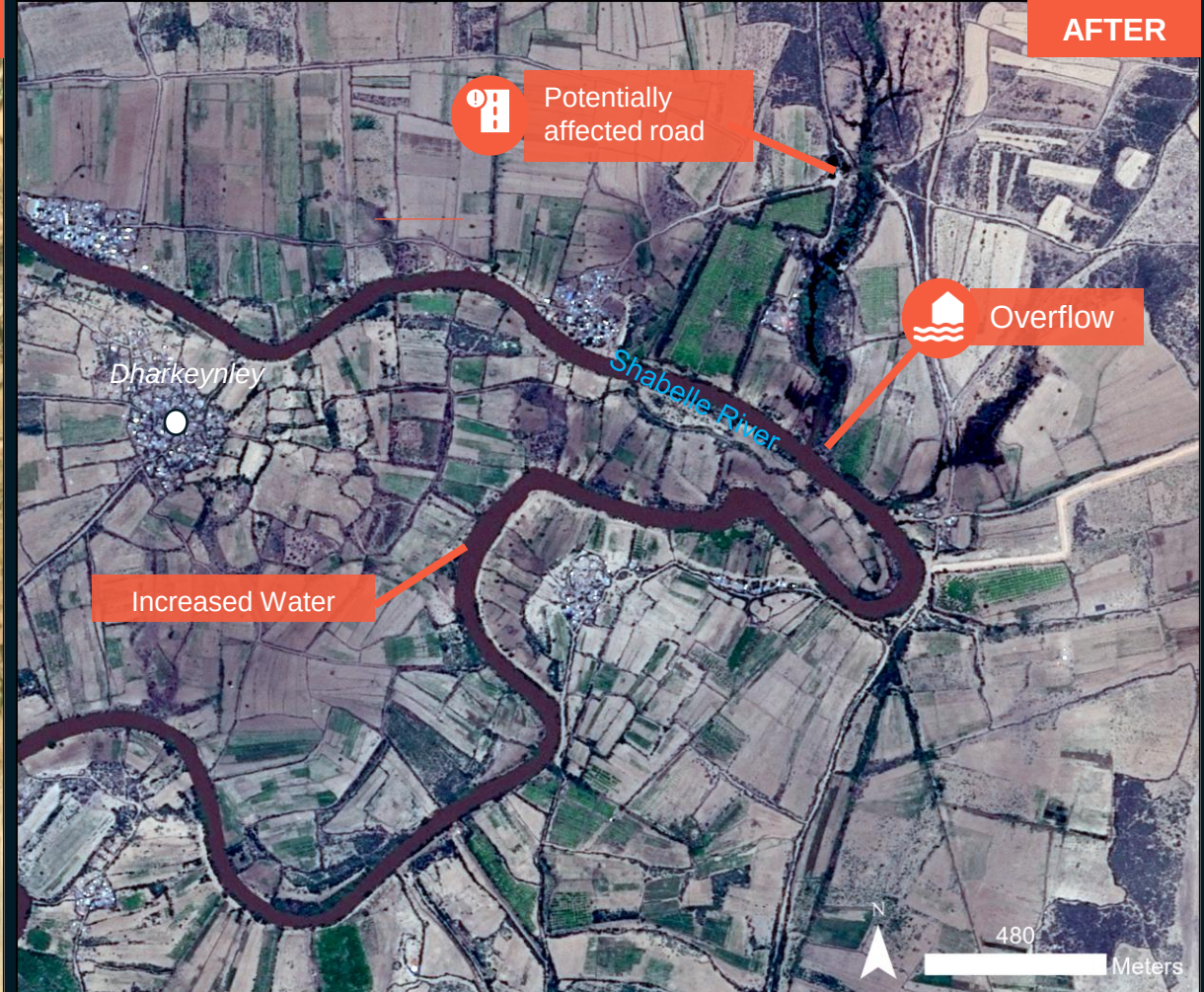
AOI 2: Beledweyne District, Hiraan Region, Somalia

Flooded agricultural field and increased water along the Shabelle River

Image center:
4°47'28"N
45°12'28"E
4°47'16.3"N
45°11'57.2"E



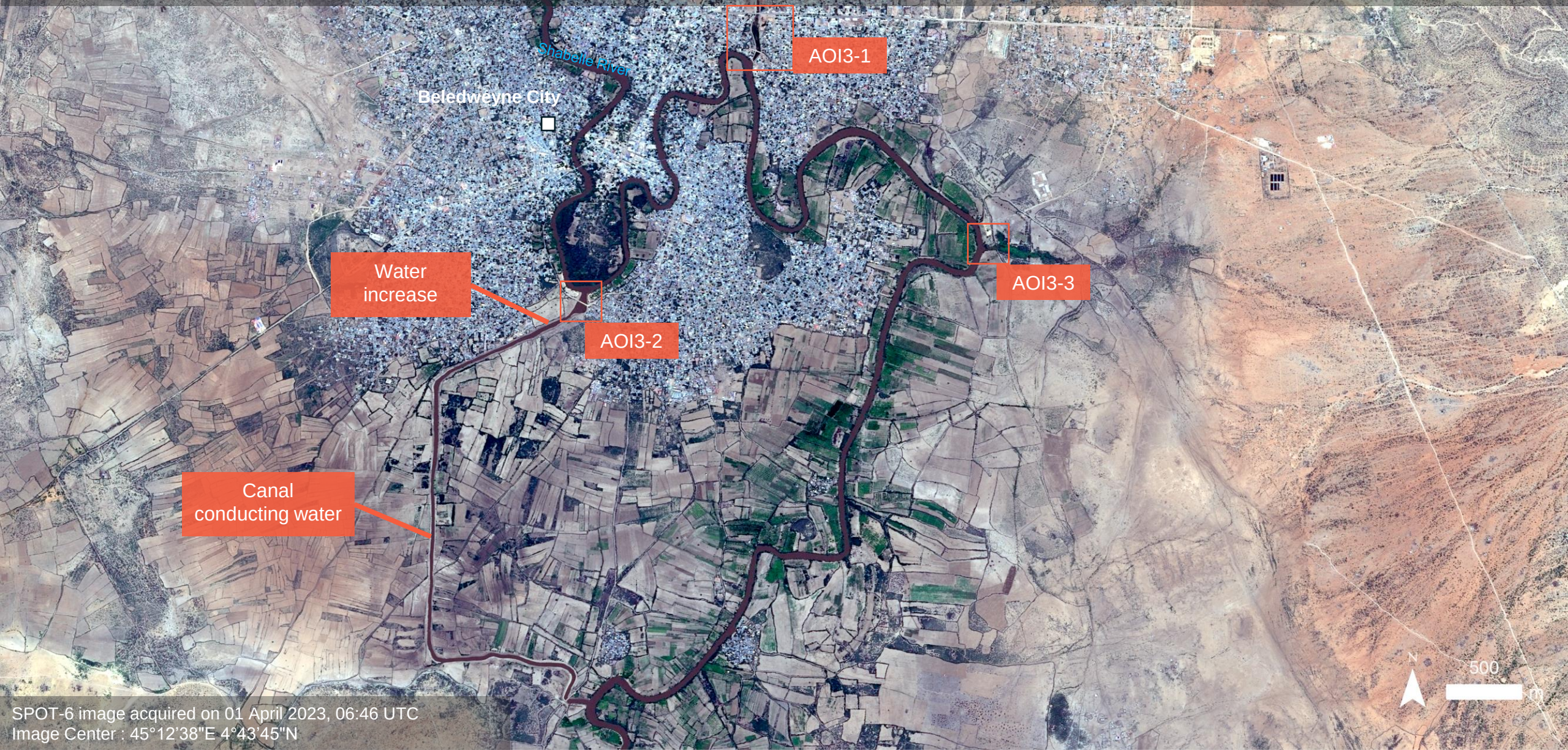
Esri Basemap / 6 March 2022



SPOT-6 / 01 April 2023

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

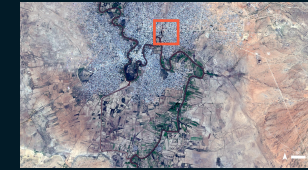
Increased water along the Shabelle River



AOI 3 – 1: Beledweyne City, Belet Weyne District, Hiraan Region , Somalia

Increased water along the Shabelle River

Image center:
4°44'40"N
45°12'40"E



ESRI Basemap / 06 March 2022



SPOT-6 / 01 April 2023

AOI 3 – 2: Beledweyne City, Belet Weyne District, Hiraan Region , Somalia

Canal conducting water towards the south

Image center:
4°43'35"N
45°12'03"E



ESRI Basemap / 06 March 2022



SPOT-6 / 01 April 2023

AOI 3 – 3: Beledweyne City, Belet Weyne District, Hiraan Region , Somalia

Flooded track

Image center:
4°43'47"N
45°13'33"E



ESRI Basemap / 06 March 2022



WorldView-3 / 31 March 2023

SUMMARY OF FINDINGS

- Flooded agricultural areas observed in Ferfer Woreda, Shabelle District, Ethiopia as of 31 March 2023;
- Flooded area and overflow observed in Beledweyne District, Hiraaan Region, Somalia as of 01 April 2023;
- Swollen Shabelle River in Beledweyne City as of 01 April 2023;
- Canal conducting water from Beledweyne towards the south of the city as of 01 April 2023.

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Data sources:

(1) Satellite Image (Post-event): SPOT-6

Acquisition date : 01 April 2023

Resolution: 1.5m

Copyright: Includes material © AIRBUS DS (2023)

Source: CNES / SPOT6

Satellite Image (Post-event): WorldView-3

Acquisition date : 31 March 2023

Resolution: 40cm

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

Source: USGS

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

(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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