

20 April 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



Beledweyne District, Hiraan Region, Somalia

Status: Flooded structures observed along the Shabelle River

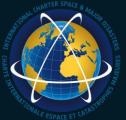
Further action(s): continue monitoring

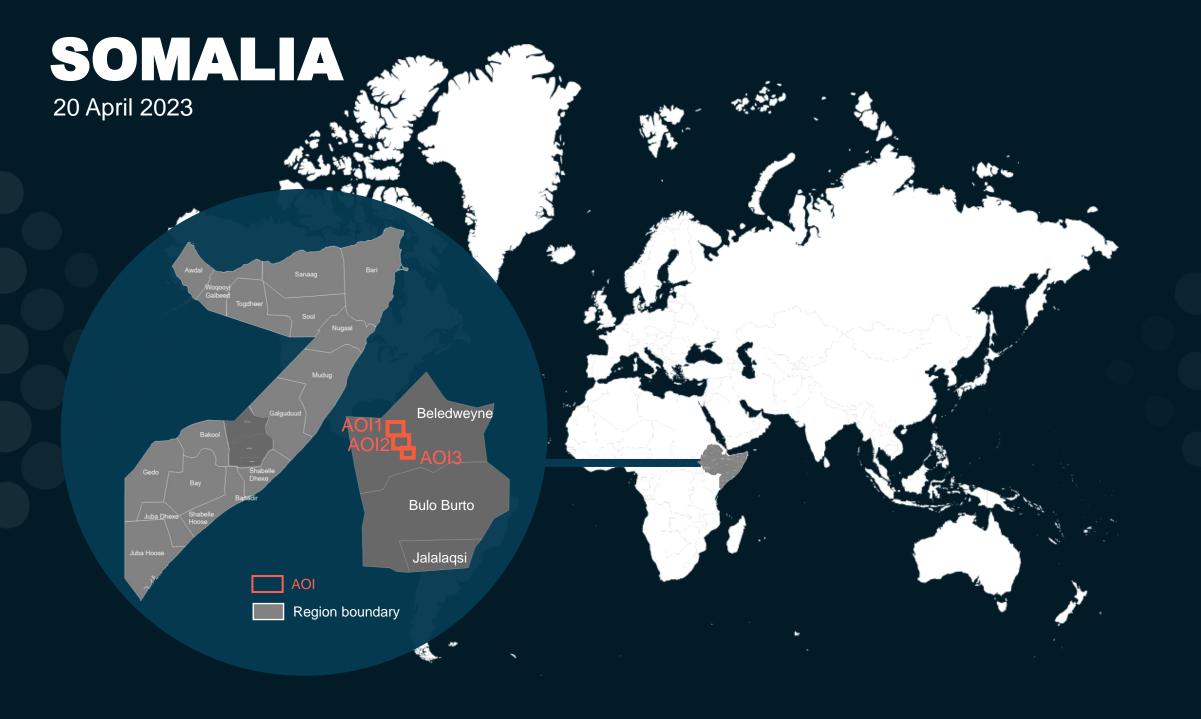


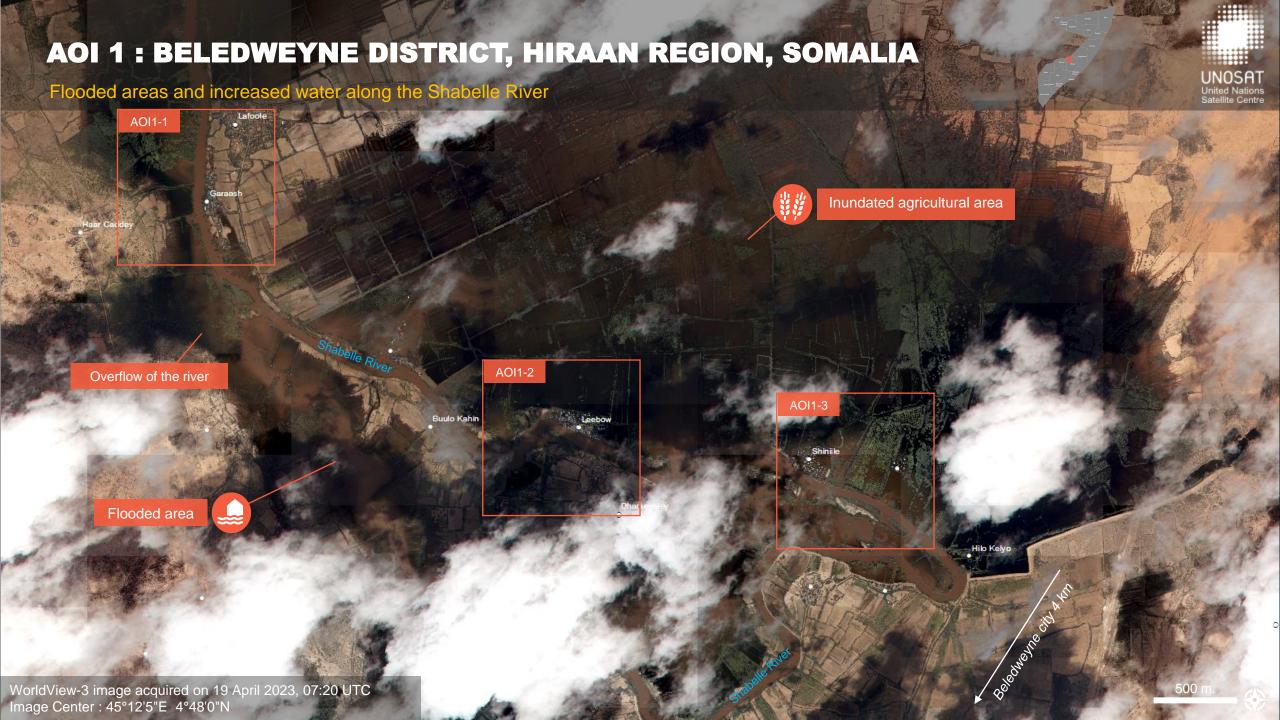










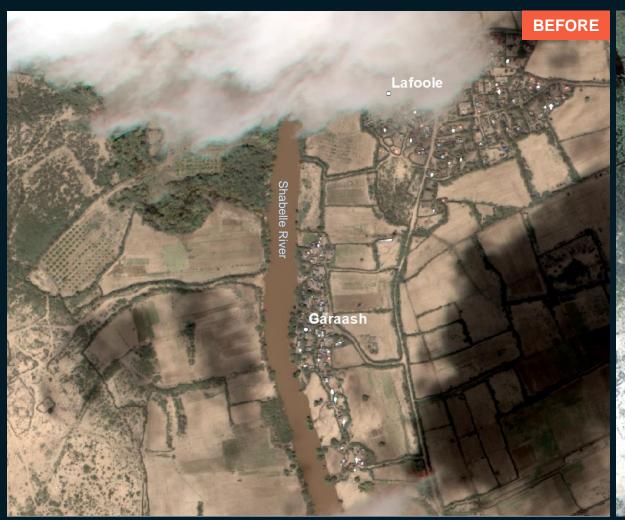


AOI 1 – 1: Garaash and Lafoole Villages, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°10'36"E 4°48'33"N









AOI 1 – 2: Leebow Village, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°11'43."E 4°47'44"N









AOI 1 – 3: Shiniile Village, Beled Weyne District, Hiraan Region, Somalia

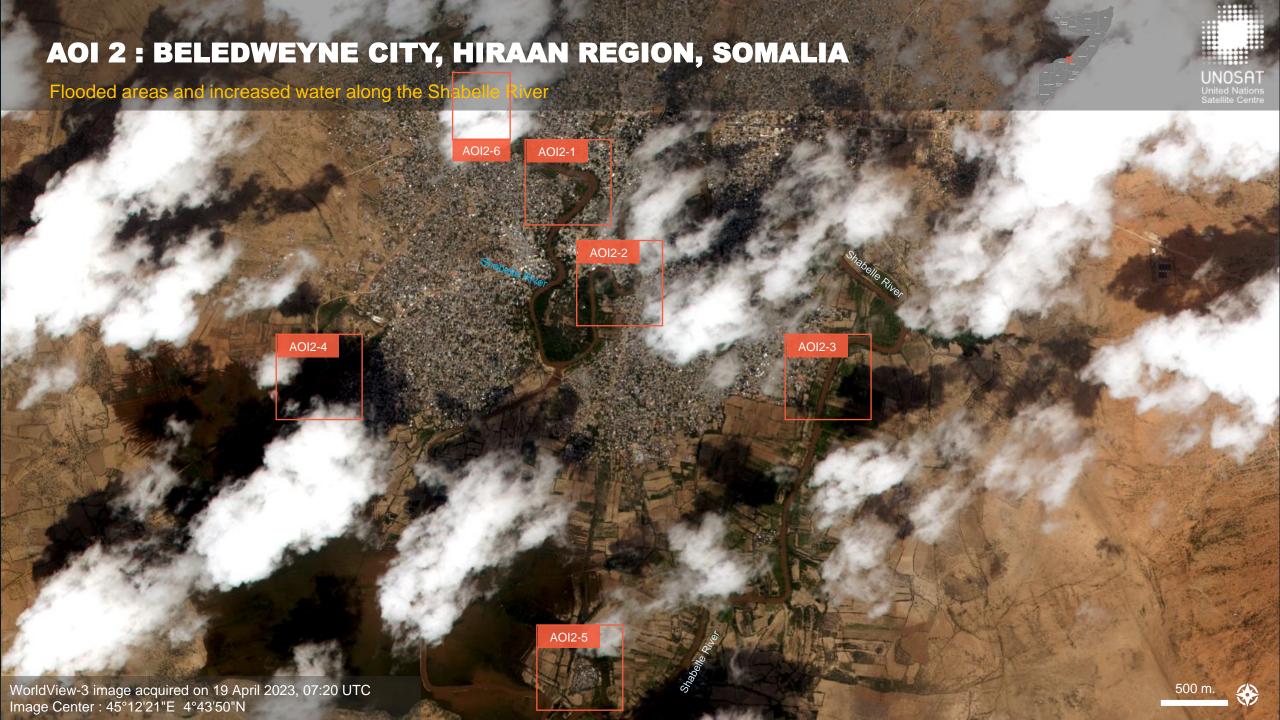
Image center: 45°12'50"E 4°47'29"N











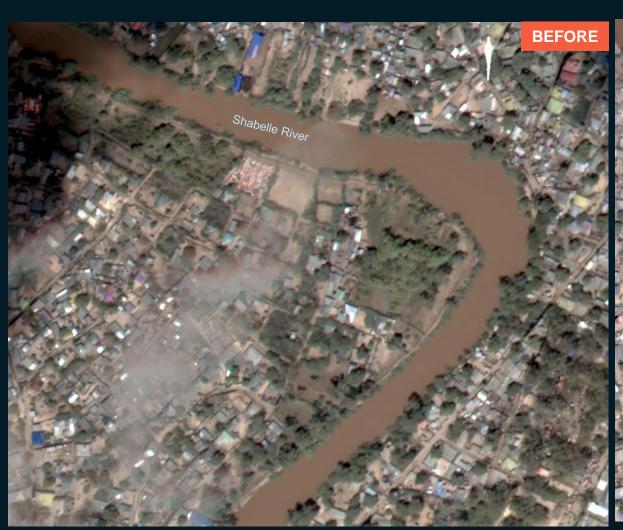
AOI 2 – 1: Beledweyne city, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°12'8"E 4°44'23"N





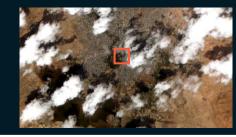
Increase of water in the river





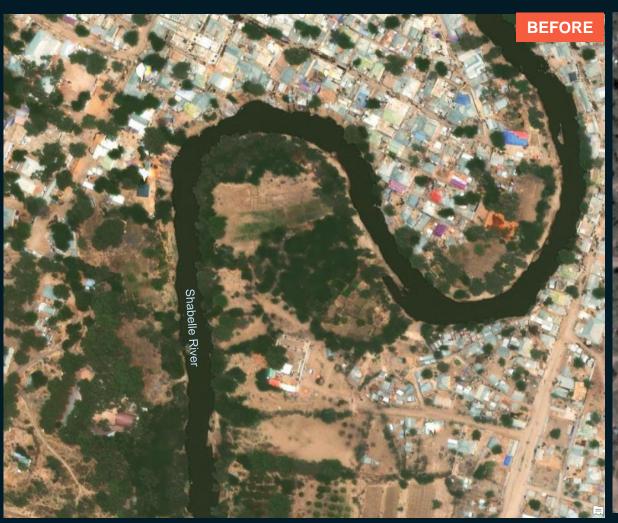
AOI 2 – 2: Beledweyne city, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°12'17"E 4°43'58"N





Increase of water in the river





AOI 2 – 3: Beledweyne city, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°13'10"E 4°43'33"N





No flood observed





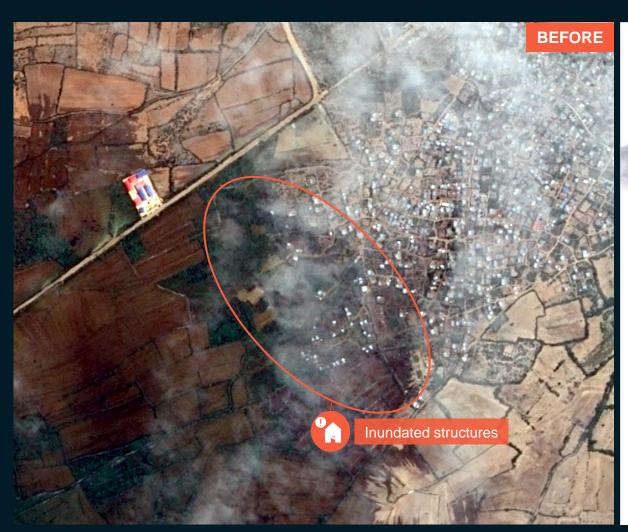
AOI 2 – 4: Beledweyne city, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°11'5"E 4°43'35"N





Increase of flood water





AOI 2 – 5: Gambarlawe Village, Beled Weyne District, Hiraan Region, Somalia

Image center: 45°12'10"E 4°42'19"N





Increasing flood observed



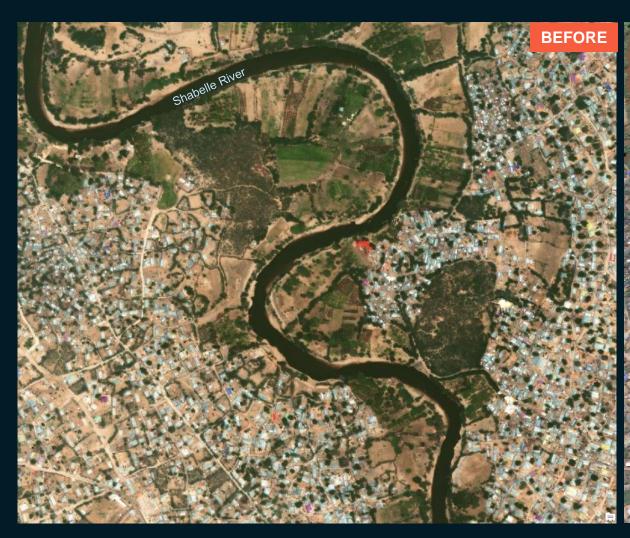


AOI 2 – 6: Beled Weyne District, Hiraan Region, Somalia

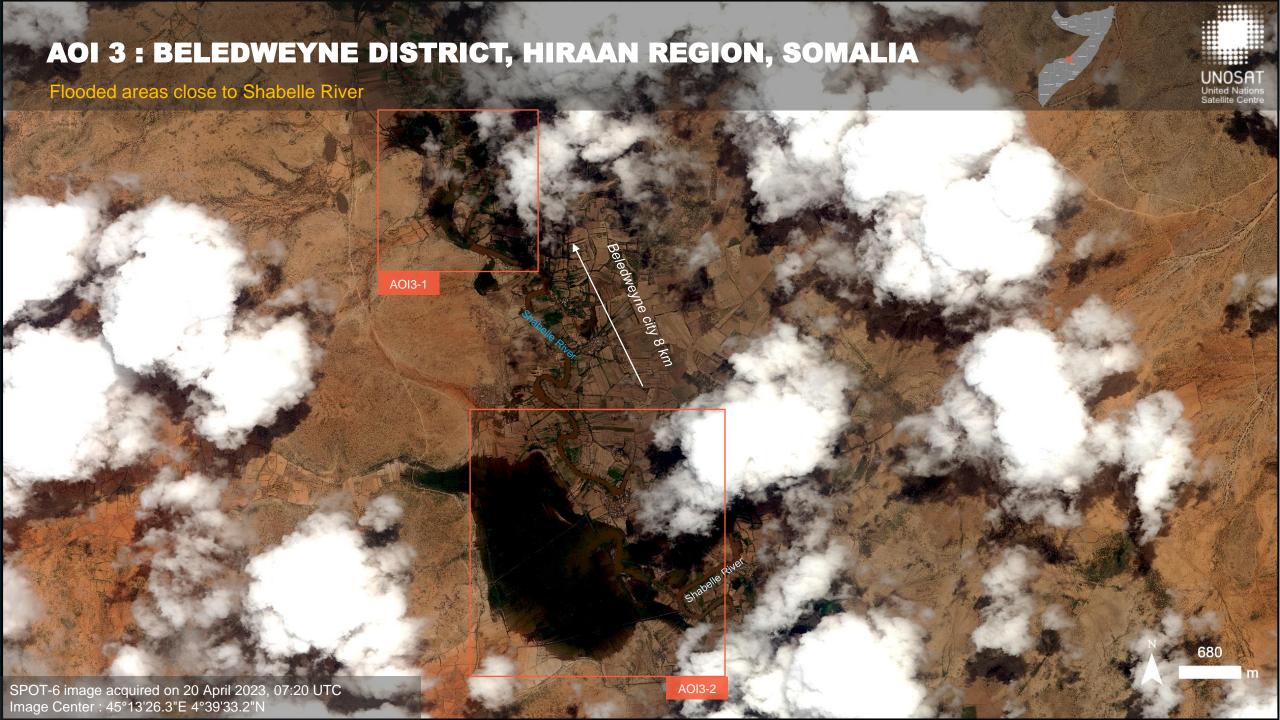
Image center: 45°11'47"E 4°44'51"N











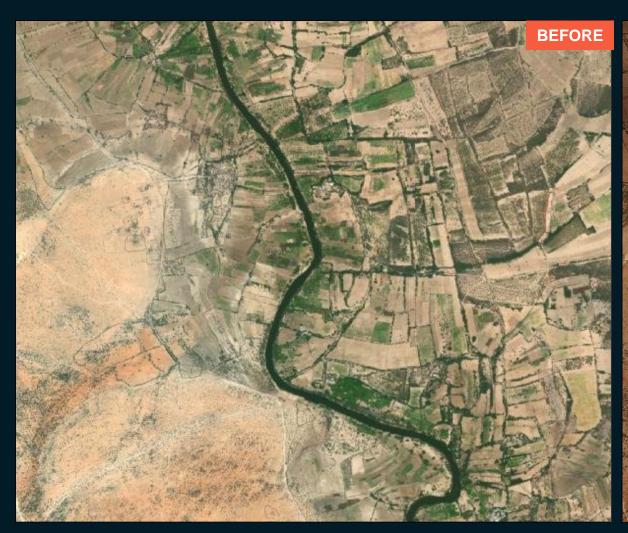
AOI 3 – 1: Beled Weyne District, Hiraan Region, Somalia

Image center: 45°12'46"E N4°40'24"N





Flooded area close to Shabelle River





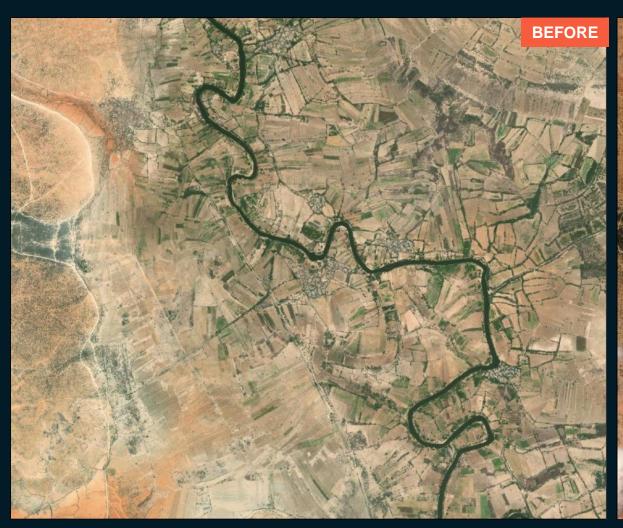
AOI 3 – 2: Beled Weyne District, Hiraan Region, Somalia

Image center: 45°13'48.4"E 4°38'49.8"N





Flooded area close to Shabelle River





SUMMARY OF FINDINGS



- Flooded areas observed along the Shabelle River in Beledweyne District, Hiraan Region, Somalia as
 of 20 April 2023;
- Potentially flooded structures and flooded agricultural areas in Garaash and Lafoole Villages, Beledweyne District, Hiraan Region, Somalia as of 19 April 2023;
- Inundated structures, roads and agricultural areas observed along the Shabelle River in Leebow and Shinille Villages, Beledweyne District, Hiraan Region, Somalia as of 19 April 2023;
- Flooded agricultural area and potentially inundated structures observed close to the water canal south of Beledweyne City, Beledweyne District, Hiraan Region, Somalia as of 19 April 2023;
- Increase of flood water observed in the southern area of Beledweyne City, Beledweyne District, Hiraan Region, Somalia between 18 and 20 April 2023;
- Flooded areas observed close to the Shabelle River about 8 km south of Beledweyne City Beledweyne District, Hiraan Region, Somalia as of 20 April 2023.

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Data sources:

(1) Satellite Image (Post-event): : Worldview-3 Imagery

Acquisition date: 19 April 2023

Resolution: 50 cm

Copyright: 2023 Digital Globe Inc. Source: USGS / HDDS Satellite Data

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

Acquisition date: 20 April 2023

Resolution: 1.5 m

Copyright: Includes material © AIRBUS DS (2023)

Source: CNES / SPOT6

(3) Satellite Image (Post-event): KOMPSAT-3

Acquisition date: 20 April 2023

Resolution: 70 cm

Copyright: © KARI (2022)

Source: KARI

(4) Satellite Image (Pre-event): SPOT-6

Acquisition date: 18 April 2023

Resolution: 1.5 m

Copyright: Includes material © AIRBUS DS (2023)

Source: CNES / SPOT6

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

(5) 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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