



14 April 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



Beledweyne City, Hiraan Region, Somalia

 Status: Flooded structures observed along the Shabelle River

 Further action(s): continue monitoring

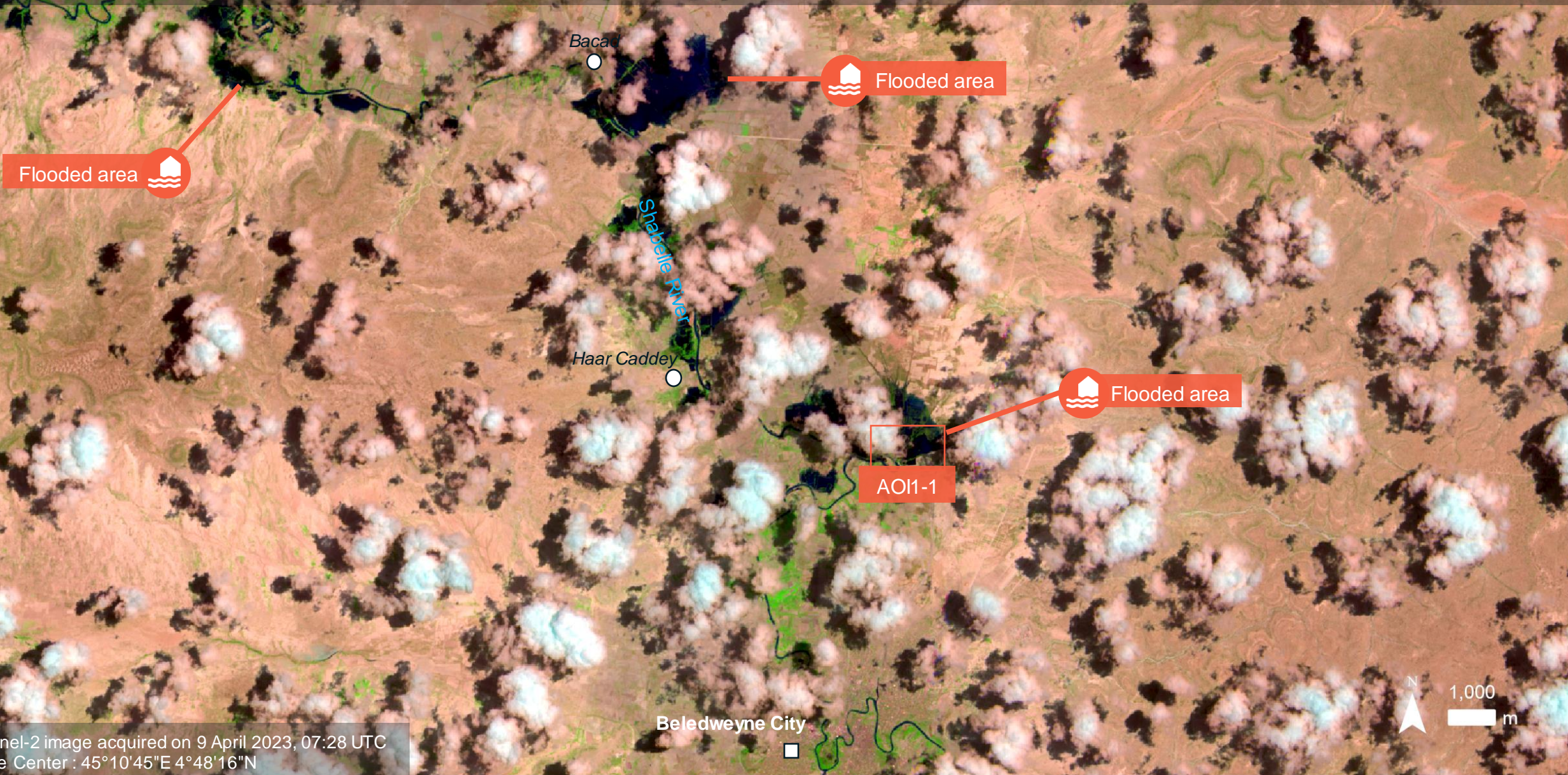
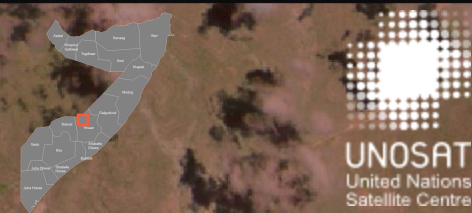
SOMALIA

14 April 2023



AOI 1 : BELEDWEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded area and increased water along the Shabelle River



Sentinel-2 image acquired on 9 April 2023, 07:28 UTC
Image Center : 45°10'45"E 4°48'16"N

AOI 1-1 : SHINIILE VILLAGE AND SURROUNDING, BELEDWEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded area and increased water along the Shabelle River



Inundated structures



Shiniile



Inundated structures

Inundated
agricultural area



Flooded area

Shabelle River

Hilo Kelyo

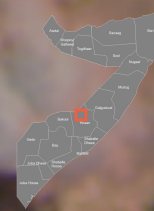
3.7 km
To Beledweyne City



200 m

AOI 2: BELEDWEYNE CITY, BELEDWEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded area and increased water along the Shabelle River



AOI 2-2

AOI 2-1



Flooded area



440

m

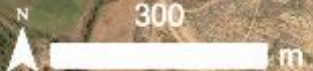
AOI 2-1 : BELEDWEYNE CITY, BELEDWEYNE DISTRICT, HIRAAN REGION, SOMALIA

No major flood observed



UNOSAT
United Nations
Satellite Centre

Shabelle River



Jilin-1 image acquired on 09 April 2023
Image Center : 45°12'35"E 4°44'40"N

AOI 2-2 : GAMBARLAWE VILLAGE AND SURROUNDING, BELEDWEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded area and increased water along the Shabelle River



UNOSAT
United Nations
Satellite Centre

Inundated
agricultural area



Overflow



1.5 km
To Beledweyne City

Gambarlawe

Overflow



Water canal

Shabelle River

N

250

m

Jilin-1 image acquired on 9 April 2023
Image Center : 45°11'36"E 4°42'28"N

SUMMARY OF FINDINGS

- Flooded area observed along the Shabelle River in Beledweyne District, Hiraan Region, Somalia as of 09 April 2023;
- Flooded structures observed in Shiniile and Hilo Keylo villages, Beledweyne District, Hiraan Region, Somalia as of 09 April 2023;
- Inundated agricultural area observed along the Shabelle River near Shiniile and Gambarlawe Villages, Beledweyne District, Hiraan Region, Somalia as of 09 April 2023;
- No major flood observed in Beledweyne City, Beledweyne District, Hiraan Region, Somalia as of 09 April 2023.

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Data sources:

(1) Satellite Image (Post-event): Jilin-1

Acquisition date : 09 April 2023

Resolution: 50cm

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Source: Chang Guang Satellite Technology Co., Ltd. (CGSTL), Collaborated network on Disaster Data Response (CDDR), Aerospace Information Research Institute of the Chinese Academy of Sciences (AIR) and Open Disaster Data Chain of the Chinese Academy of Sciences (ODDC)

Satellite Image (Post-event): Sentinel-2

Acquisition date : 09 April 2023

Resolution: 10m

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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