



18 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

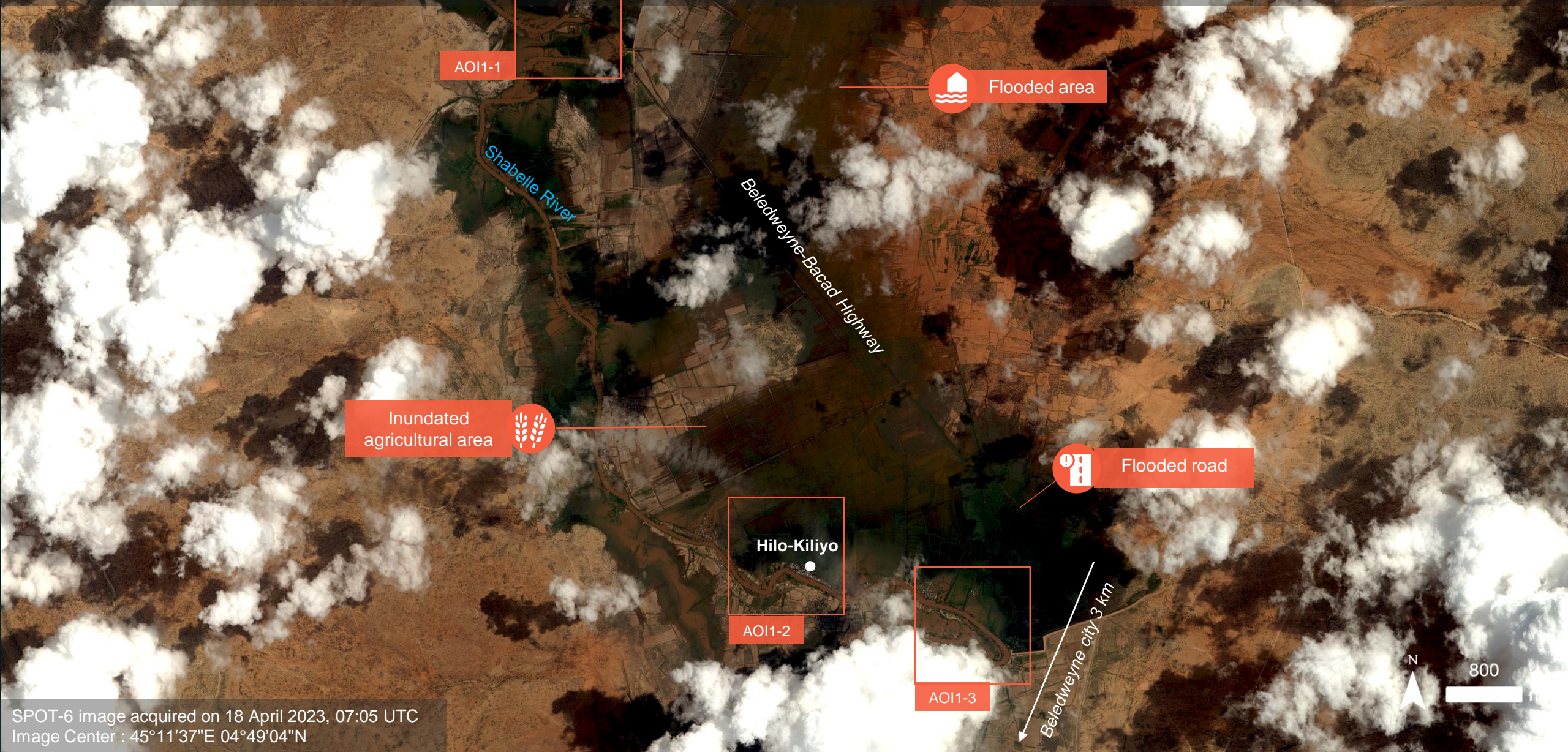
# SOMALIA

18 April 2023



# AOI 1 : BELEDWEYNE DISTRICT, HIRAAN REGION, SOMALIA

Flooded areas and increased water along the Shabelle River



AOI1-1

Flooded area

Inundated agricultural area

Flooded road

Hilo-Kiliyo  
AOI1-2

AOI1-3

Beledweyne city 3 km



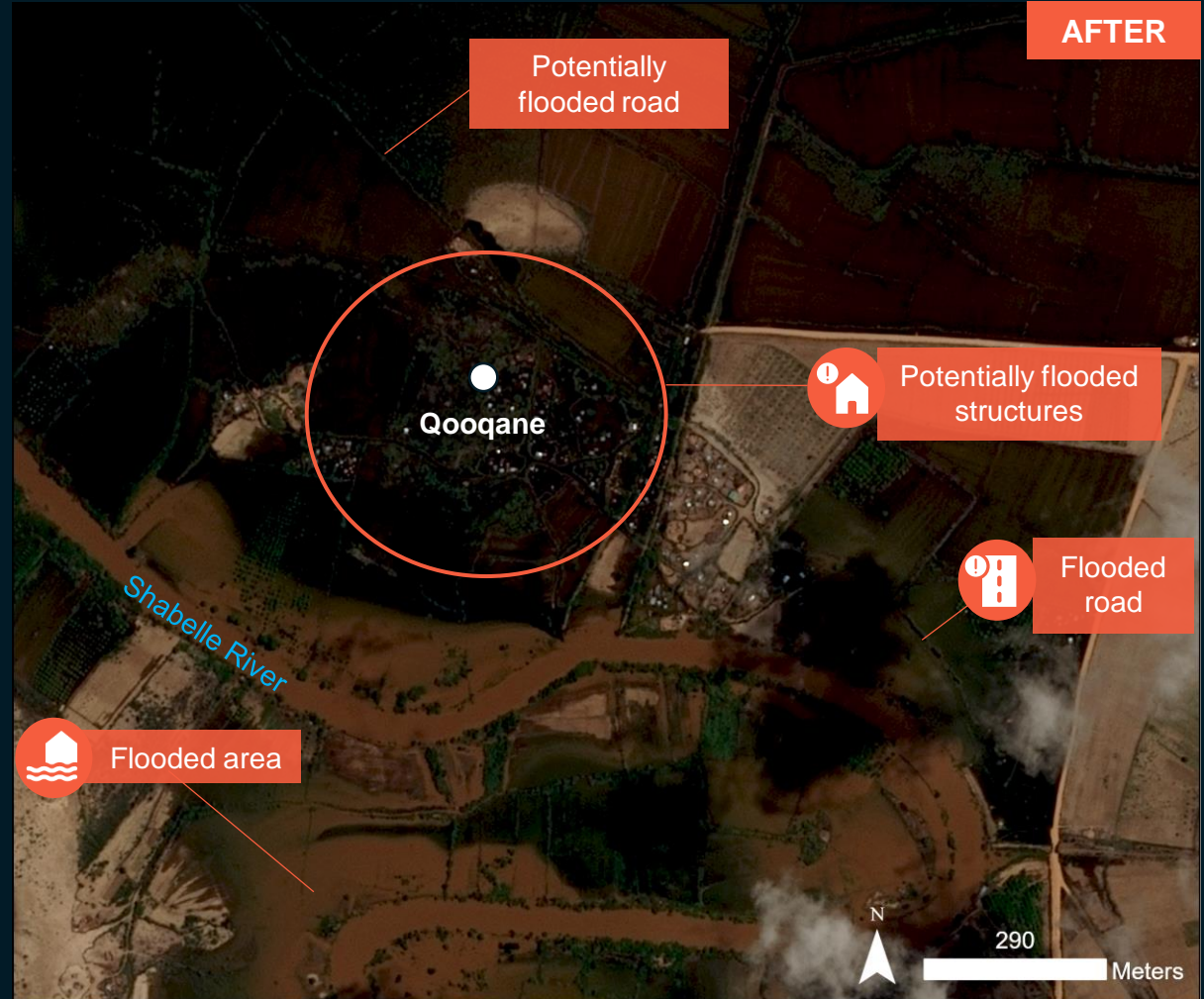
# AOI 1 – 1: Qoogane Village, Beledweyne District, Hiraan Region, Somalia

Potentially flooded structures and potentially flooded road

Image center:  
04°51'12"N  
45°10'21"E



ESRI Basemap / 06 March 2022



SPOT-6 / 18 April 2023

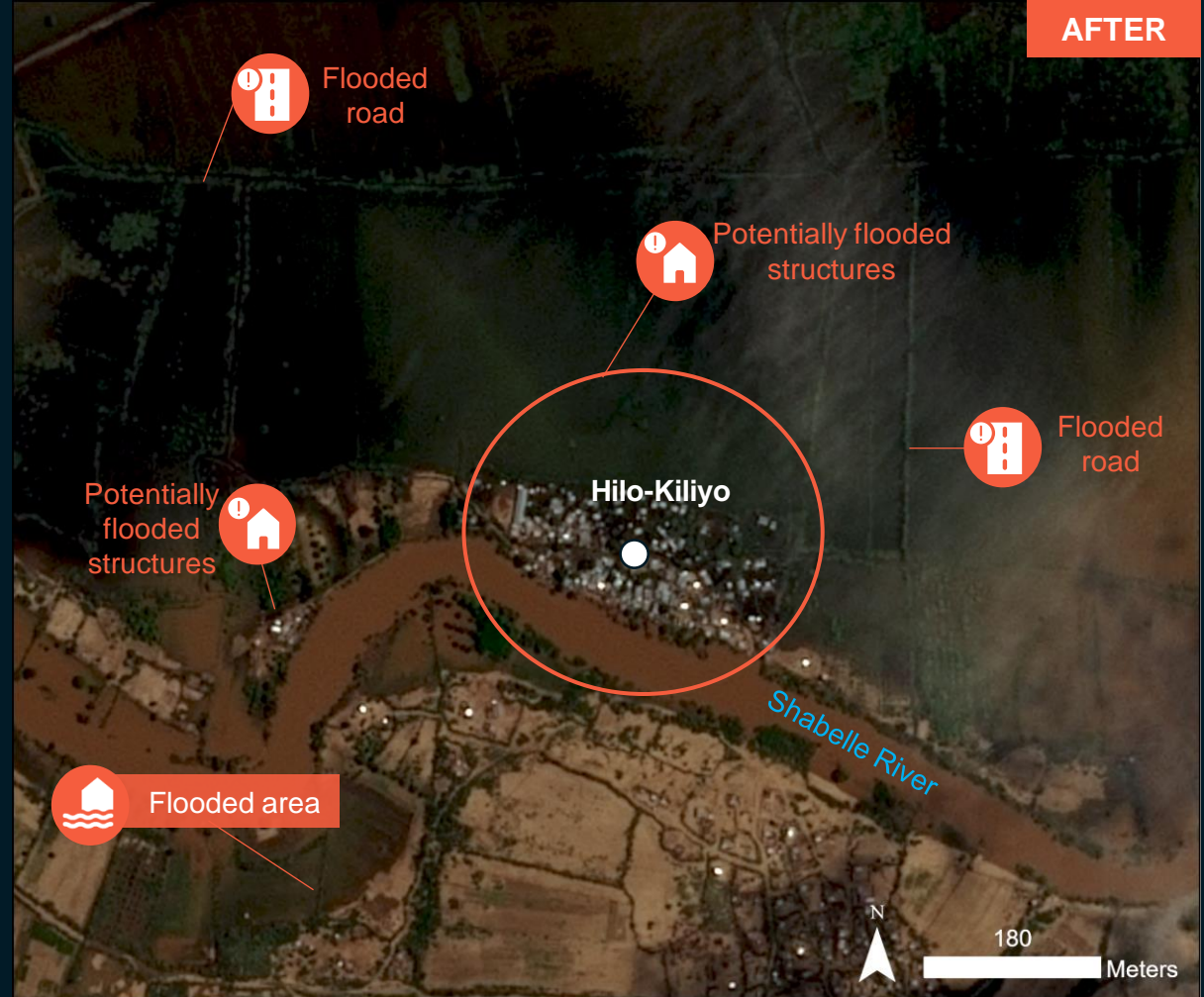
# AOI 1 – 2: Hilo-Kiliyo Village, Beledweyne District, Hiraan Region, Somalia

Potentially flooded structures and flooded road

Image center:  
04°47'46"N  
45°11'45"E



ESRI Basemap / 06 March 2022



SPOT-6 / 18 April 2023

# AOI 1 – 3: Shinille Village, Beledweyne District, Hiraan Region, Somalia

Inundated structures and increased flooded area

Image center:  
04°47'29"N  
45°12'50"E



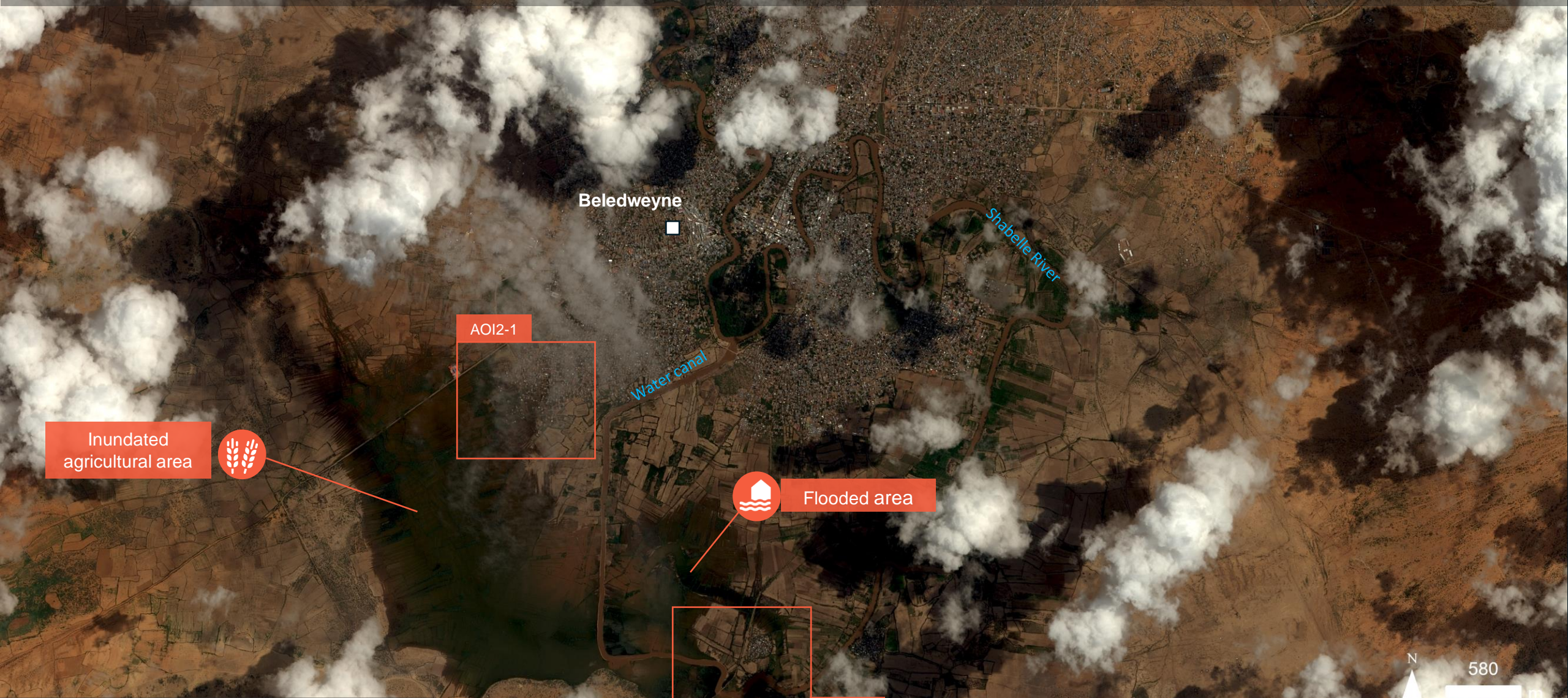
Jilin-1 / 09 April 2023



SPOT-6 / 18 April 2023

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

Flooded area and increased water along the Shabelle River and the water canal



Inundated agricultural area



AOI2-1



Flooded area



AOI2-2

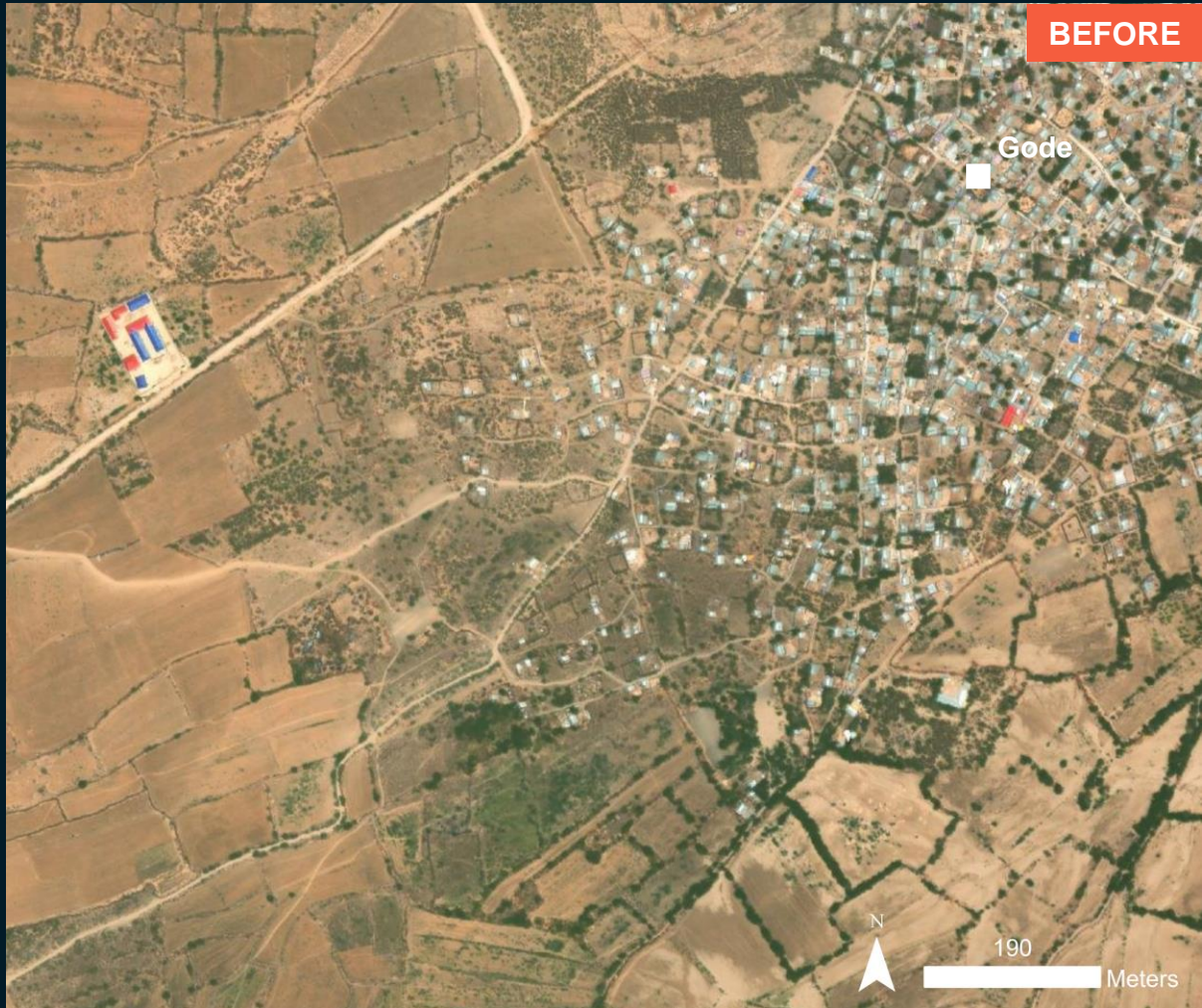


SPOT-6 image acquired on 18 April 2023, 07:05 UTC  
Image Center : 45°12'17"E 04°43'54"N

# AOI 2 – 1: Beledweyne City, Beledweybe District, Hiraan Region, Somalia

Potentially inundated structures and potentially affected road

Image center:  
04°43'26"N  
45°11'11"E



ESRI Basemap / 06 March 2022



SPOT-6 / 18 April 2023



# AOI 2 – 2: Beledweyne City, Shabelle District, Somali Region, Somalia

Flooded area and potentially inundated structures

Image center:  
04°42'23"N  
45°12'05"E



# SUMMARY OF FINDINGS

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- Flooded areas observed along the Shabelle River in Beledweyne District, Hiraan Region, Somalia as of 18 April 2023;
- Flooded structures and flooded roads observed in Quooqane, Hilo-Kiliyo and Shinille Villages, Beledweyne District, Hiraan Region, Somalia as of 18 April 2023;
- Inundated agricultural area observed along the Shabelle River near Hilo-Kiliyo and Shinille Villages, Beledweyne District, Hiraan Region, Somalia as of 18 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 18 April 2023.

# COPYRIGHTS & SOURCES

## Data sources:

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

Acquisition date : 18 April 2023

Resolution: 1.5m

Copyright: Includes material © AIRBUS DS (2023)

Source: CNES / SPOT6

(2) Satellite Image (Pre-event): Jilin-1

Acquisition date : 09 April 2023

Resolution: 50cm

Copyright: Chang Guang Satellite Technology Co., Ltd.

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)

(3) 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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