

11 April 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



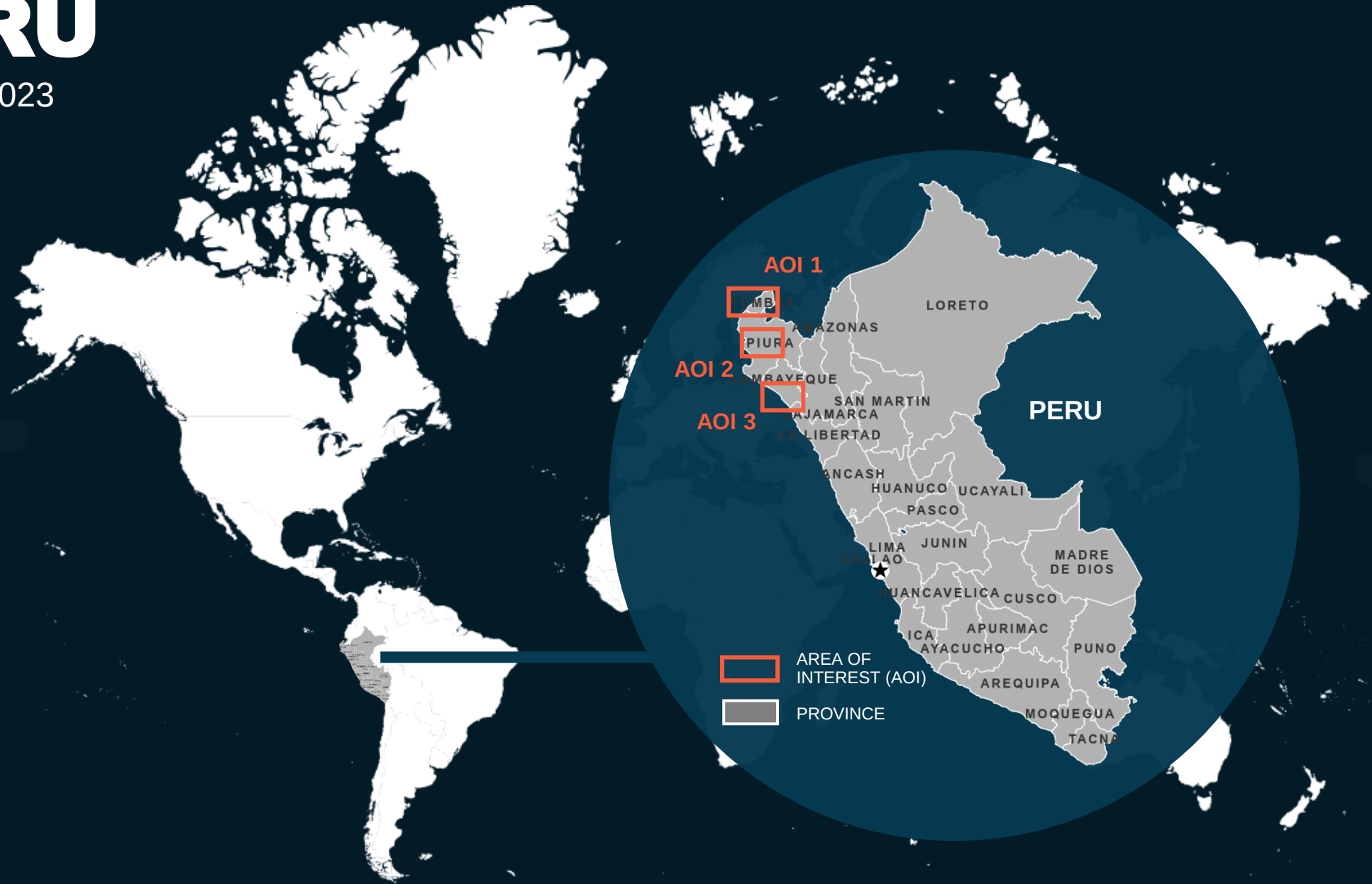
Tumbes, Piura & Lambayeque Provinces, Peru

 Status: Increase of surface water observed

 Further action(s): Continue monitoring

PERU

11 April 2023



AOI 1: TUMBES CITY, TUMBES DISTRICT, TUMBES PROVINCE

Increase of surface water along Tumbes river

Image center:
03°33'05"S
80°27'42"W



Sentinel-2 / False Color / 20 March 2023



Sentinel-2 / False Color / 9 April 2023

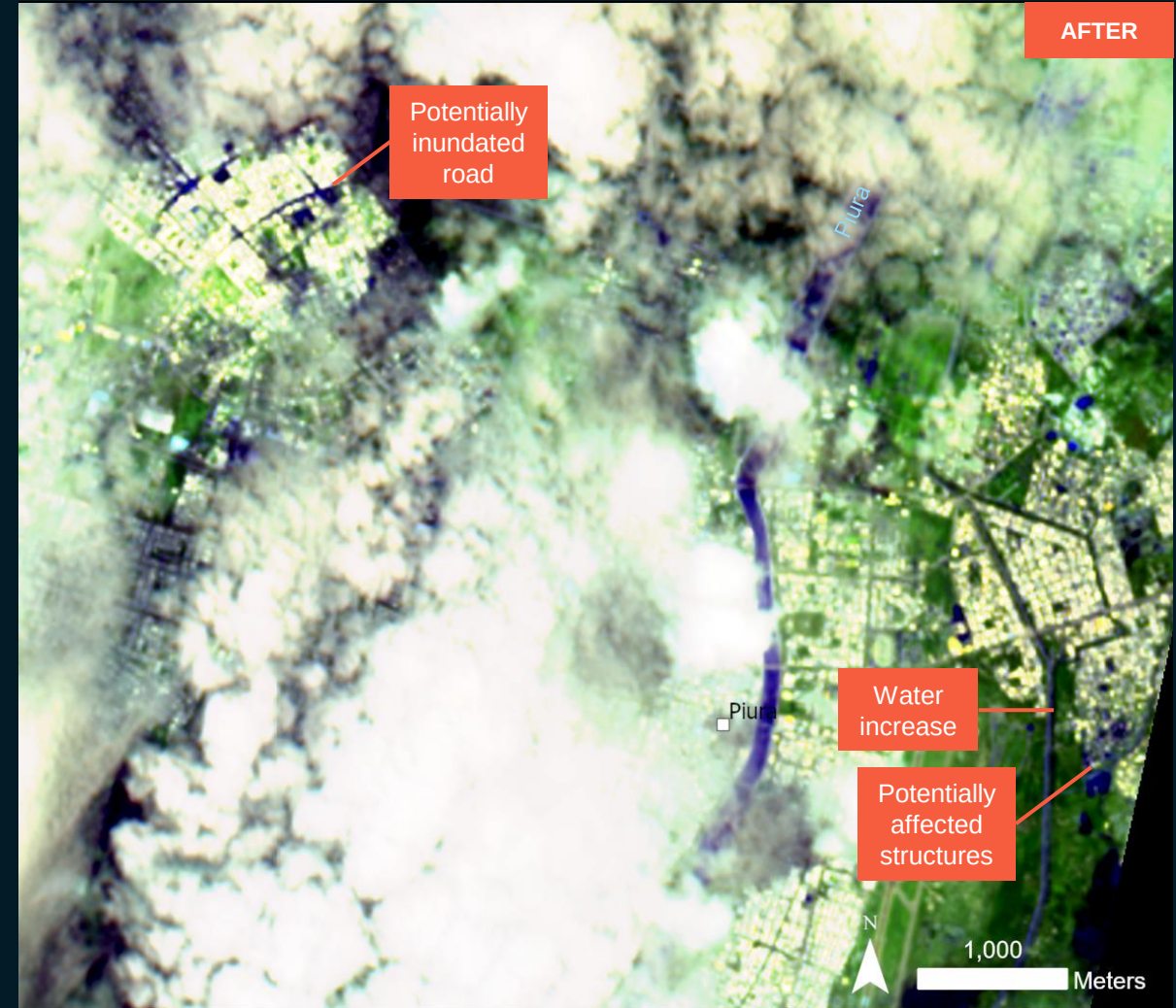
AOI 2: PIURA CITY, PIURA PROVINCE

Increase of surface water along the canal and potentially inundated road

Image center:
05°11'26"S
80°37'58"W



Sentinel-2 / False Color / 1 April 2023



Sentinel-2 / False Color / 9 April 2023

AOI 3-1: PUCALÁ VILLAGE, CHICLAYO DISTRICT, LAMBAYEQUE PROVINCE

Inundated area along Chancay River

Image center:
06°46'53"S
79°36'25"W



Jilin-1 / 19 September 2022



Jilin-1 / 30 March 2023

AOI 3-2: PUCALÁ VILLAGE, CHICLAYO DISTRICT, LAMBAYEQUE PROVINCE

Inundated area along Chancay River

Image center:
6°47'20"S
79°36'23"W



Jilin-1 / 19 September 2022

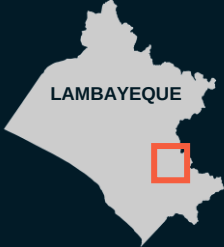


Jilin-1 / 30 March 2023

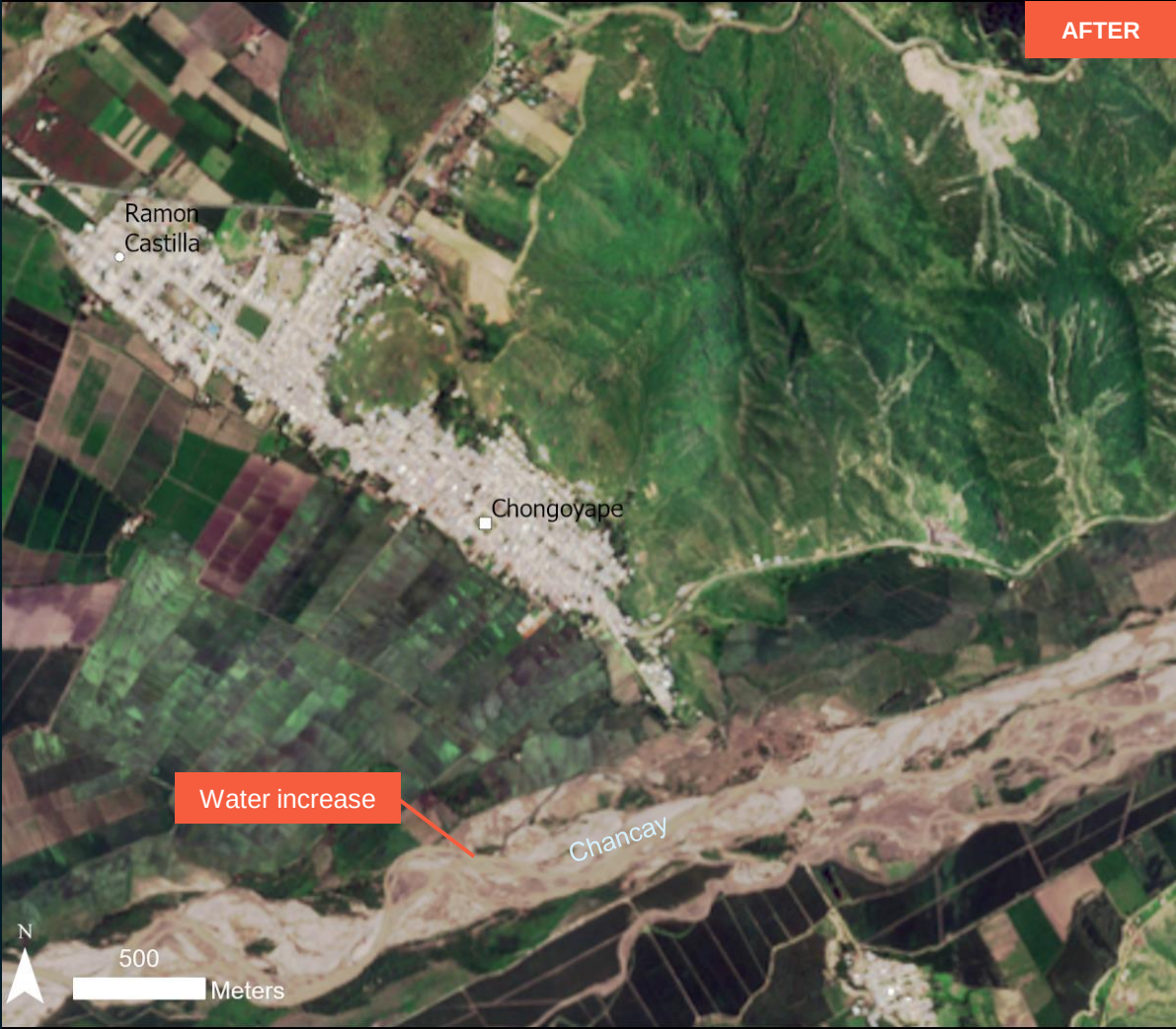
AOI 4: CHONGOYAPE TOWN, CHICLAYO DISTRICT, LAMBAYEQUE PROVINCE

Increase of surface water along Chancay River

Image center:
06°38'33"S
79°23'1"W



Jilin-1 / 17 March 2023



Sentinel-2 / 22 March 2023

SUMMARY OF FINDINGS

- Increase of surface water observed along Tumbes river in the vicinity of Tumbes City, Tumbes District, Tumbes Province as of 9 April 2023;
- Increase of surface water observed along the canal in Piura City, Piura Province as of 9 April 2023;
- Potentially inundated road and potentially affected structures observed in Piura City, Piura Province as of 9 April 2023;
- Inundated area observed along the Chancay River in Chiclayo District, Lambayeque Province as of 30 March 2023;
- No major flood observed in Chongoyape Town, Chiclayo District, Lambayeque Province as of 22 March 2023;

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Data sources:

(1) Satellite Image (Post-event)

Satellite : Sentinel-2

Acquisition date : 09 April 2023

Acquisition date : 22 March 2023

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

Satellite : Jilin-1

Acquisition date :30 March 2023

Resolution: 0.75 m

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)

(2) Satellite Image (Pre-event)

Satellite : Sentinel-2

Acquisition date : 01 April 2023

Acquisition date : 20 March 2023

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

Satellite : Jilin-1

Acquisition date :19 September 2022

Resolution: 0.75 m

Acquisition date :17 March 2023

Resolution: 5 m

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) Ancillary data

Administrative boundaries: UNOCHA

Populated place: OpenStreetMap

Waterway: OpenStreetmap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)

NOTE: This is a preliminary analysis and has not yet been validated in the field.

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