


21 March 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT

Tumbes, Piura, Lambayeque and La Libertad Regions, Peru

 Status: inundated agricultural area

 Further action(s): continue monitoring

PERU

21 March 2023



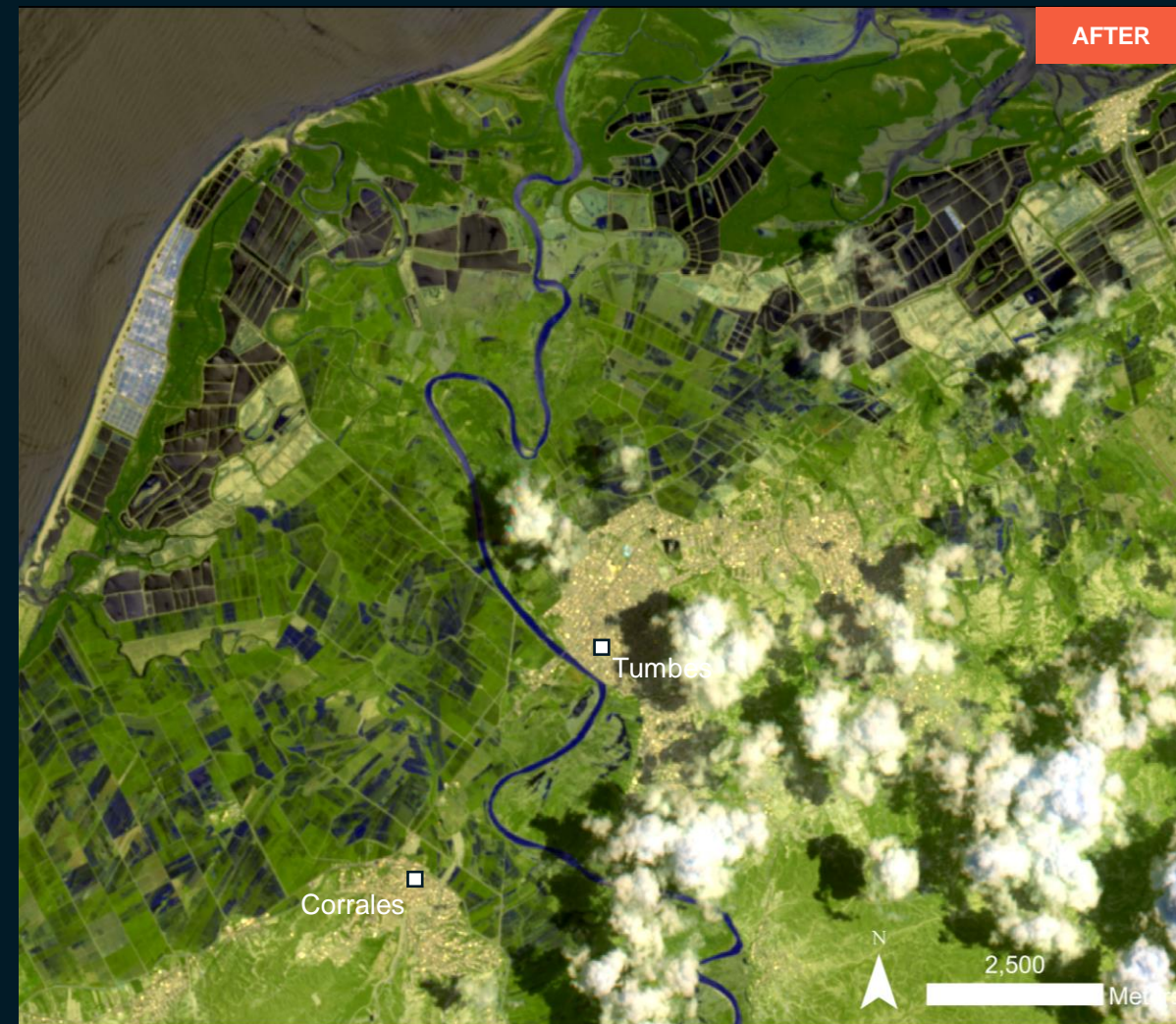
AOI 1: TUMBES CITY AND CORRALES DISTRICT, TUMBES PROVINCE, TUMBES REGION

Receded water extent in agricultural area

Image center:
80°27'42"W
03°33'05"S



Sentinel-2 / False Color / 28 February 2023



Sentinel-2 / False Color / 20 March 2023

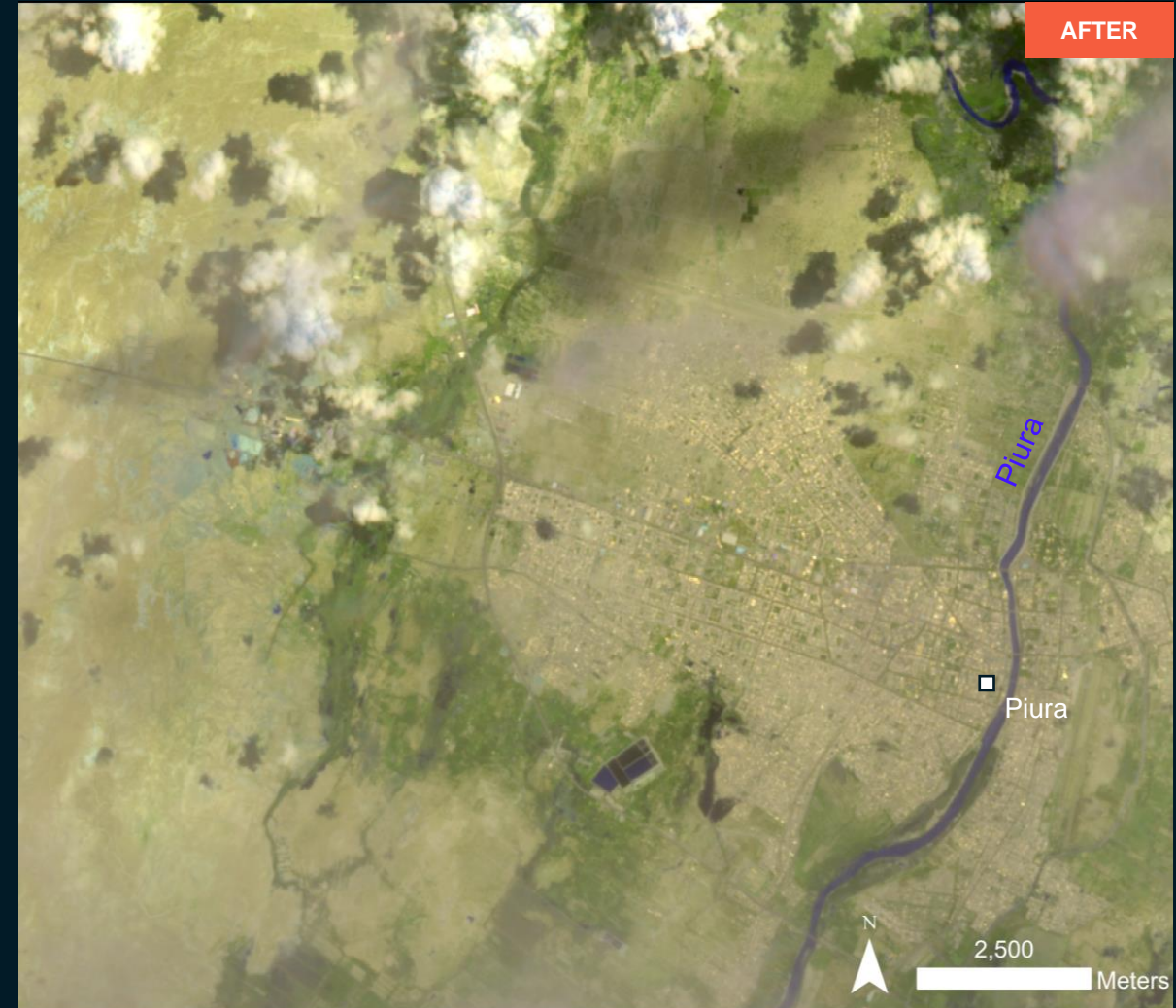
AOI 2: PIURA CITY, PIURA PROVINCE, PIURA REGION

No major floods in the vicinity of Piura city

Image center:
80°39'25"W
05°11'06"S



Sentinel-2 / False Color / 28 February 2023



Sentinel-2 / False Color / 20 March 2023

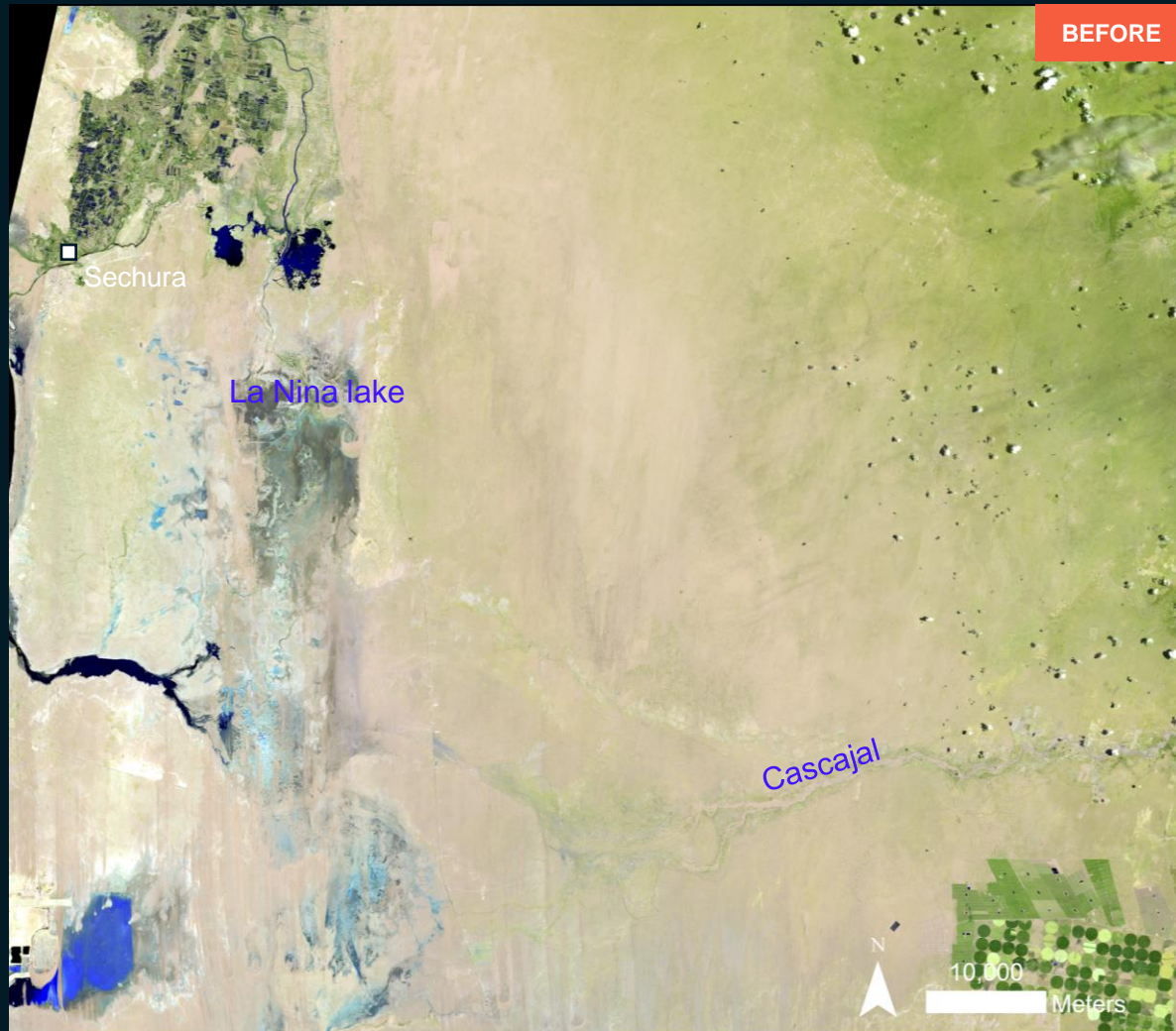
AOI 2: SECHURA PROVINCE, PIURA REGION

Increase of surface water in La Nina lake

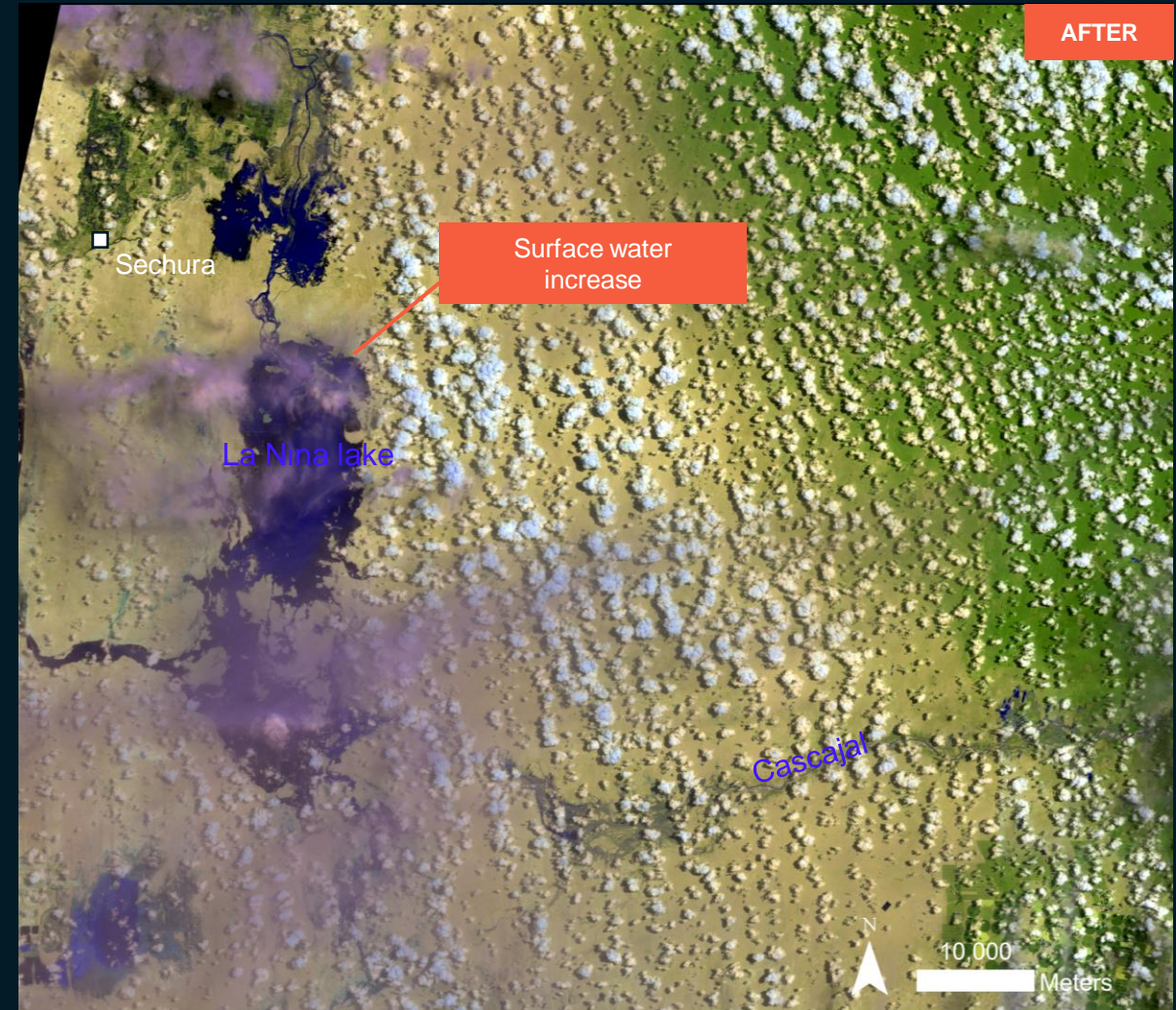
Image center:
80°33'16"W
05°46'30"S



PIURA



Sentinel-2 / False Color / 02 March 2023



Sentinel-2 / False Color / 17 March 2023

AOI 2: PAITA & SULLANA PROVINCES, PIURA REGION

Inundated agricultural area



Chira river

Inundated agricultural area

Querecotillo

Marcavelica

Sullana

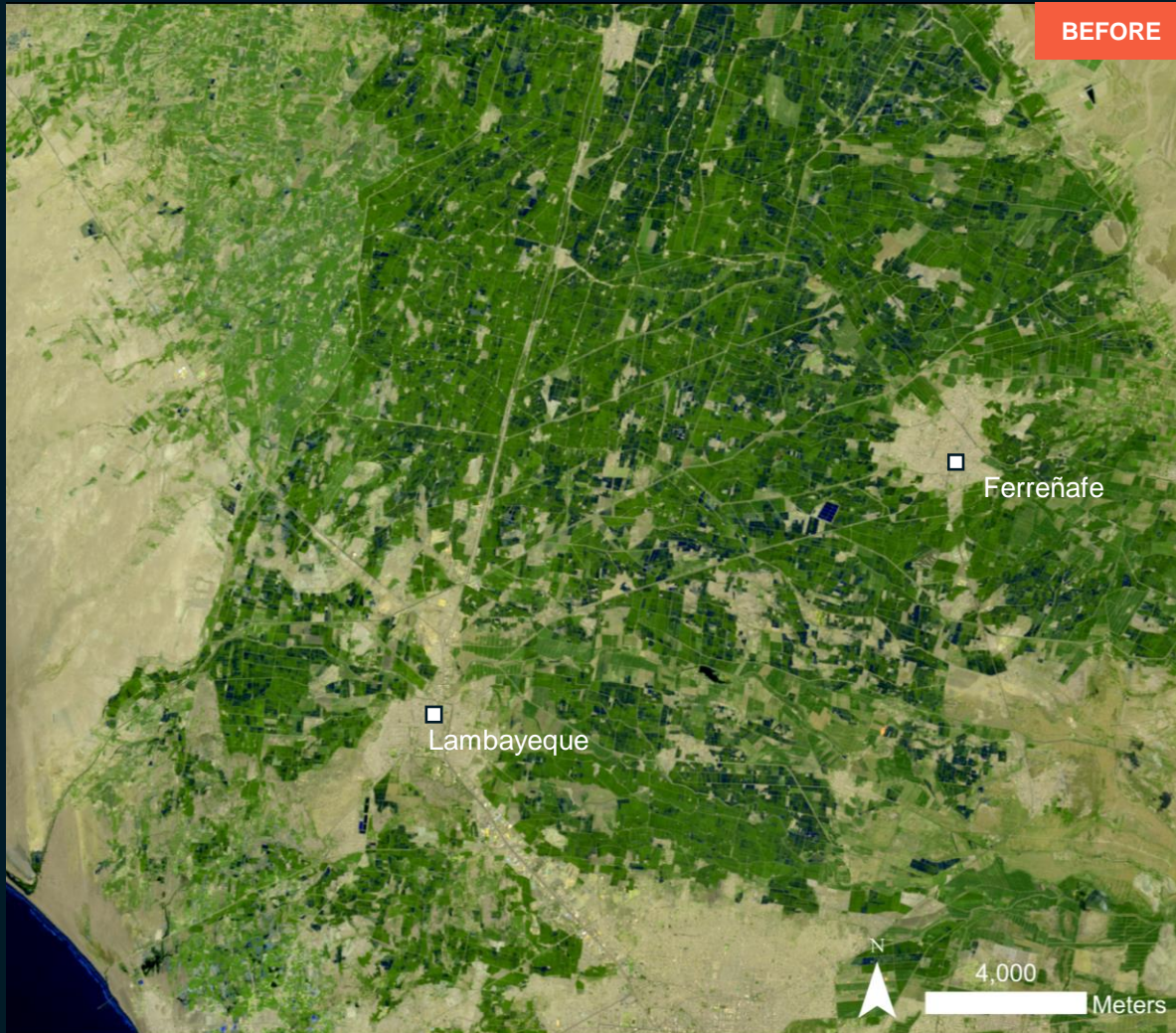
3,000 m

Sentinel-2 / False Color / 20 March 2023
Image center: 80°47'58"W 04°49'35"S

AOI 3: FERREÑAFE & LAMBAYEQUE PROVINCE, LAMBAYEQUE REGION

No major flood water

Image center:
79°51'46"W
06°38'43"S



Sentinel-2 / False Color / 02 March 2023

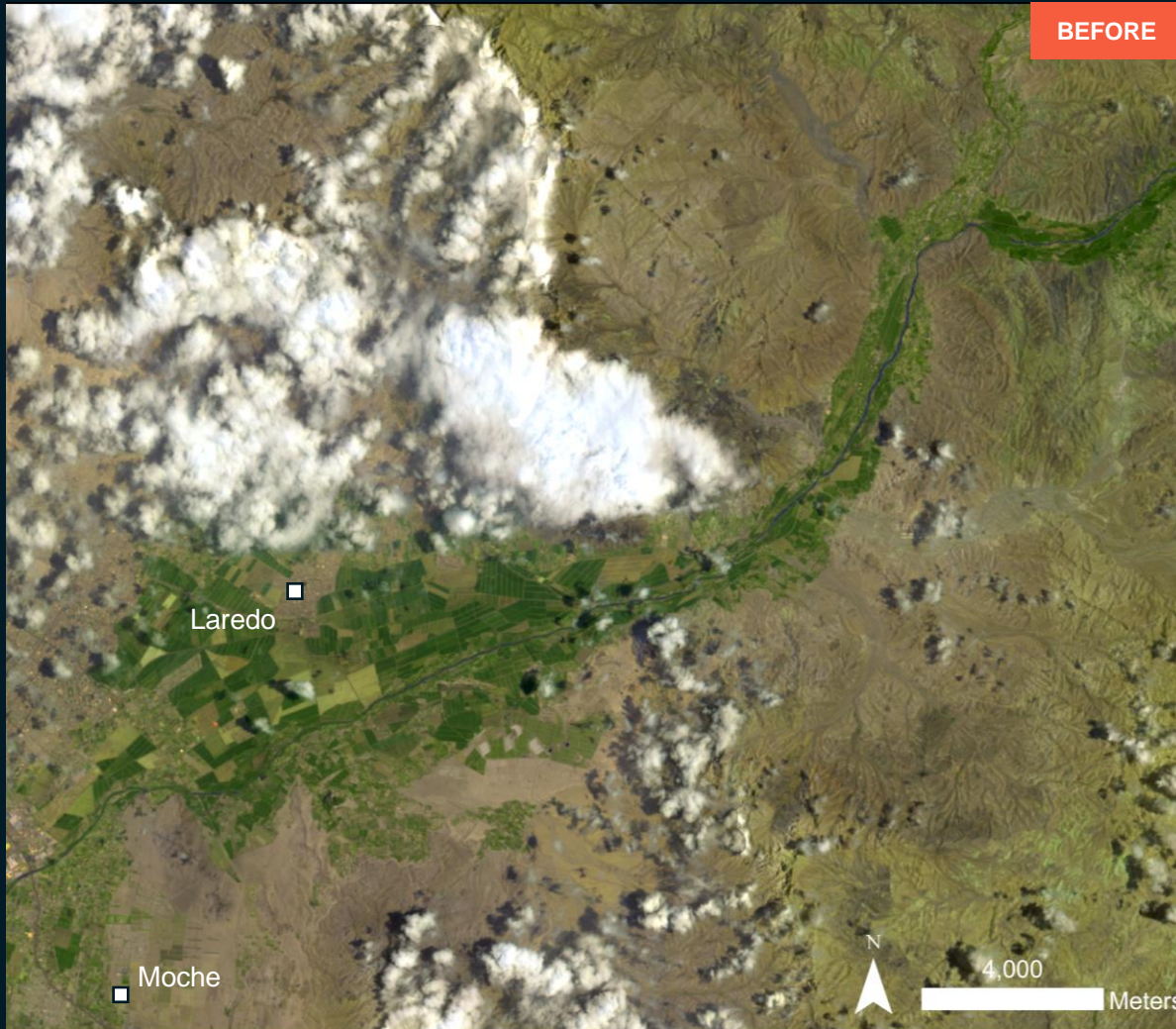


Sentinel-2 / False Color / 17 March 2023

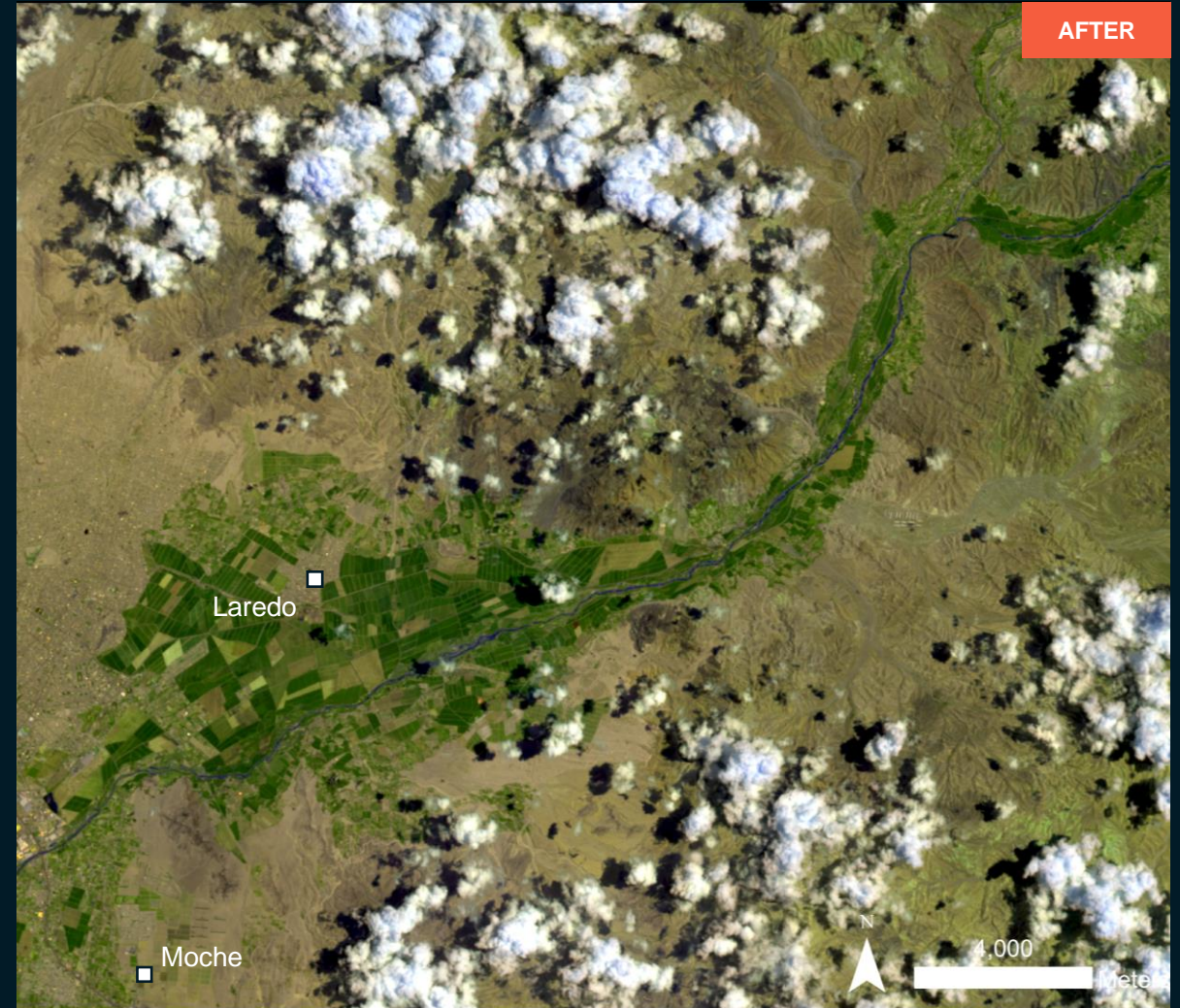
AOI 4: TRUJILLO PROVINCE, LA LIBERTAD REGION

No major flood water

Image center:
78°56'42"W
08°05'58"S



Sentinel-2 / False Color / 25 February 2023



Sentinel-2 / False Color / 17 March 2023

SUMMARY OF FINDINGS

- Recede of flood waters observed in Tumbes province, Tumbes Region as of 20 March 2023; extent
- Increase of surface waters in La Nina lake, Sechura Province, Piura Region as of 17 March 2023;
- Inundated agricultural areas are observed along Chira river in Paita and Sullana Provinces, Piura Region as of 20 March 2023;
- No major floods were observed in Ferreñafe and Lambayeque Provinces, Lambayeque Region as of 17 March 2023;
- No major floods were observed in Trujillo Province, La Libertad Region as of 17 March 2023.

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Data sources:

(1) Satellite Image (Post-event)

Satellite : Sentinel-2

Acquisition date : 17 March 2023

Acquisition date : 20 March 2023

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

(2) Satellite Image (Pre-event)

Satellite : Sentinel-2

Acquisition date : 02 March 2023

Acquisition date : 28 February 2023

Acquisition date: 25 February 2023

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

(3) Ancillary data

Administrative boundaries: UNOCHA

Populated place: OpenStreetMap

Waterway: OpenStreetmap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)

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