


29 August 2023

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



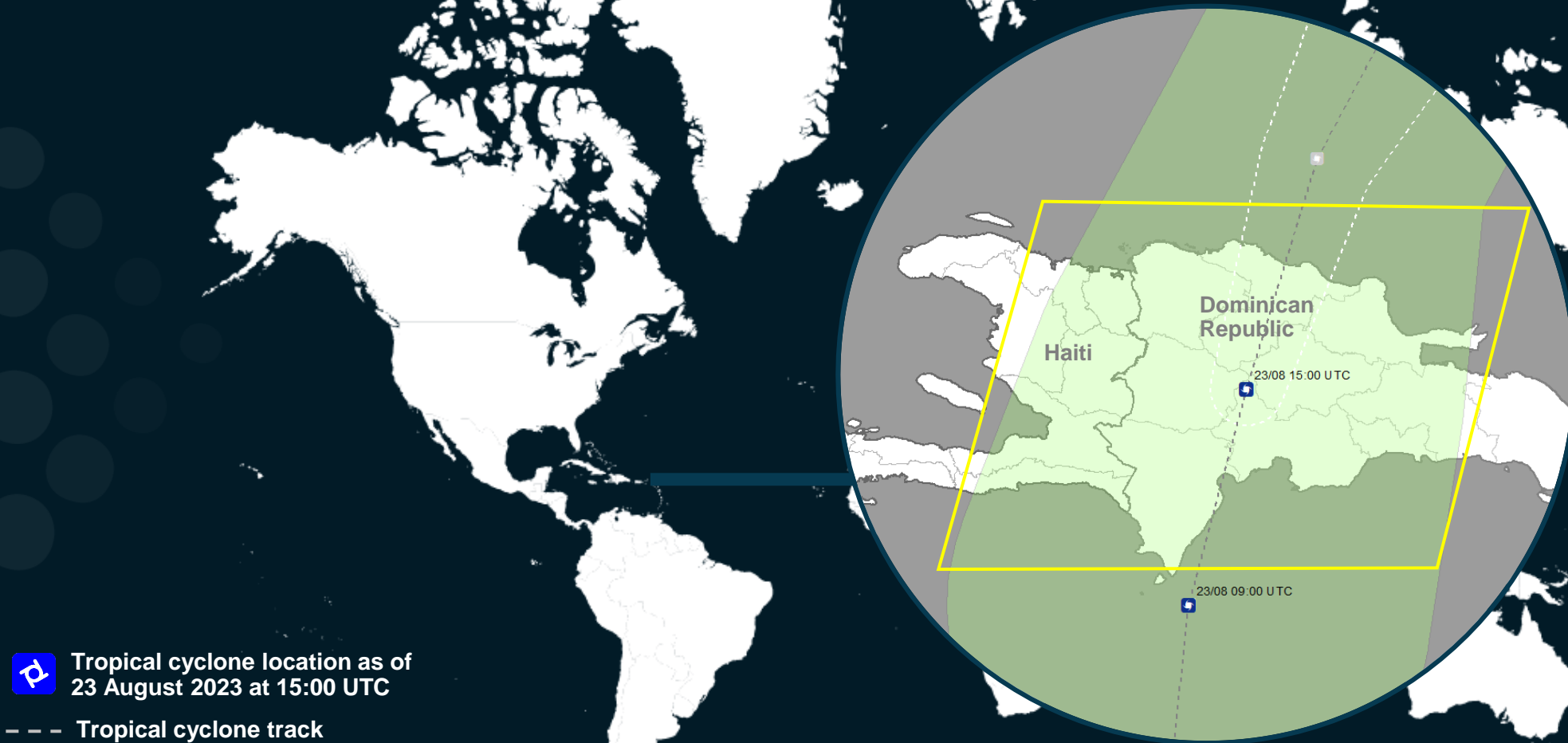
Dominican Republic and Haiti


 Status: Flood waters observed in Dominican Republic

 Further action(s): Completed


Dominican Republic and Haiti

29 August 2023



 Tropical cyclone location as of 23 August 2023 at 15:00 UTC

--- Tropical cyclone track

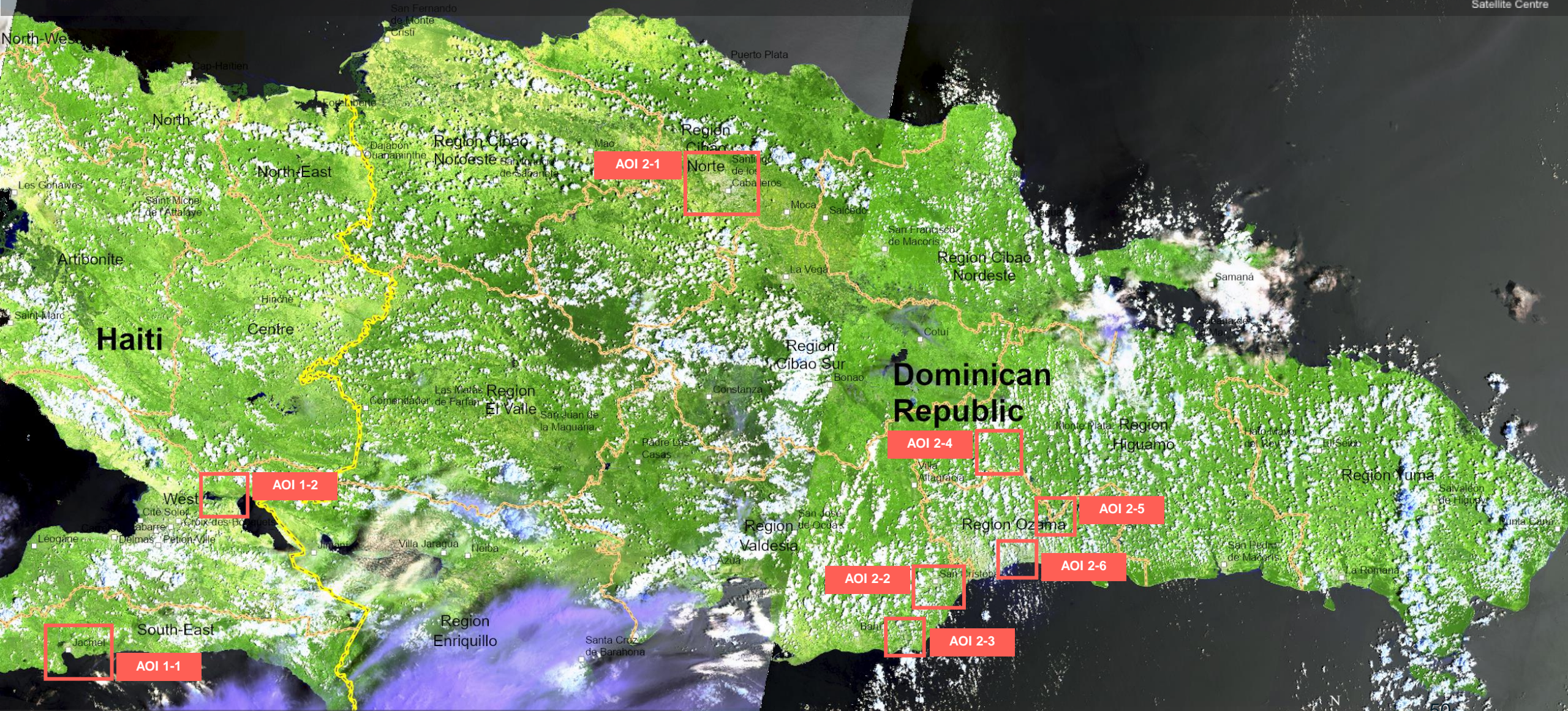
 Wind speed zone 60-90 km/hr.

 Analysis extent

 Country boundary

AREAS OF INTEREST IN HAITI AND THE DOMINICAN REPUBLIC

Haiti
Dominican Republic



Sentinel-2 image (false colour composite) acquired on 26 and 28 August 2023
Image Center : 70°28'26"W 19°3'24"N



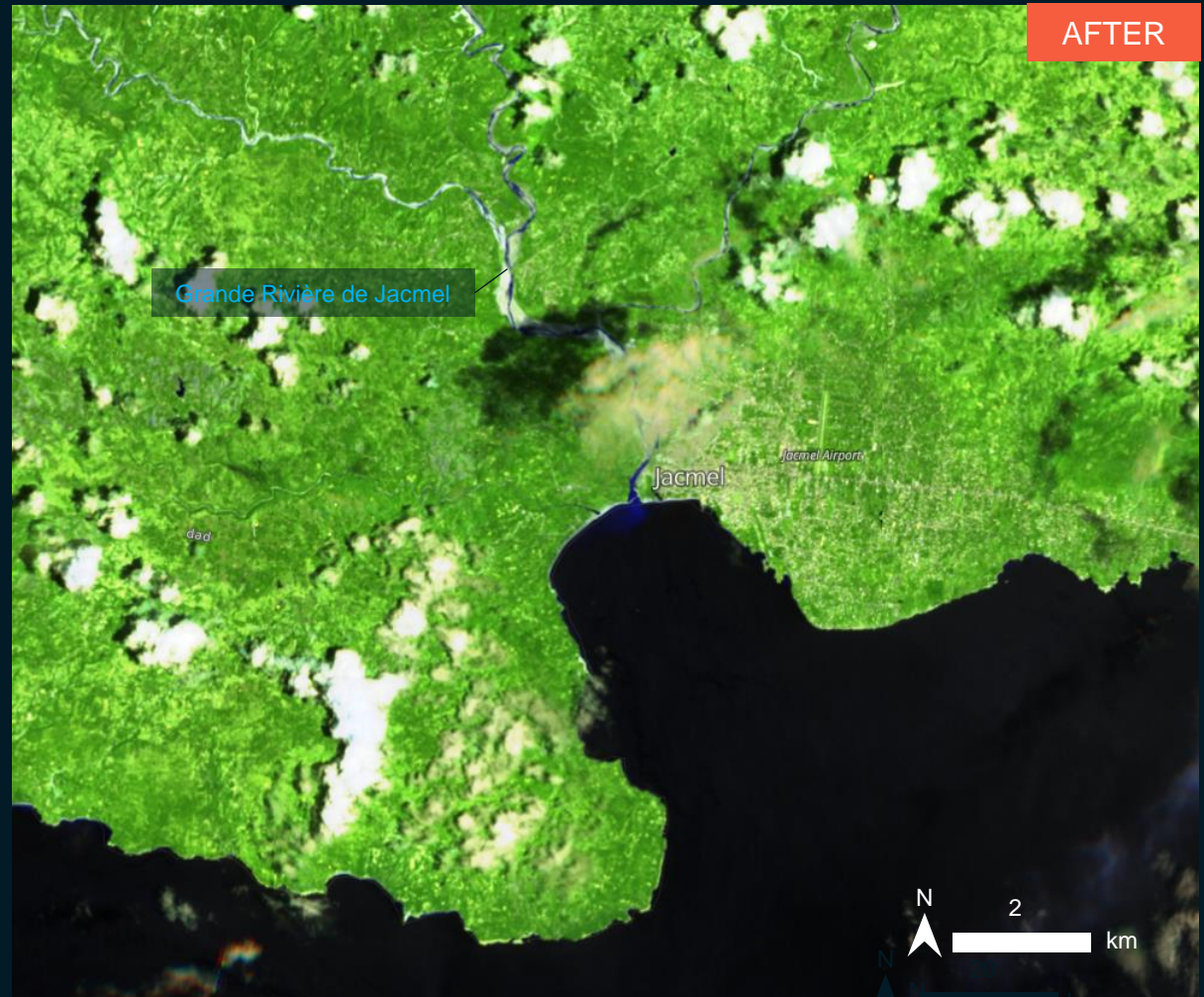
AOI 1 – 1: Jacmel Town, South-East, Haiti

No major flood water

Image center:
72°32'57"W
18°14'48"N



Sentinel-2 / False color composite / 16 August 2023



Sentinel-2 / False color composite / 26 August 2023

AOI 1 – 2: Thomazeau Commune, West, Haiti

No major flood water

Image center:
72°9'15"W
18°39'09"N



Sentinel-2 / False color composite / 16 August 2023



Sentinel-2 / False color composite / 26 August 2023

AOI 2-1: Provincia Santiago, Región El Valle, Dominican Republic

No major flood water

Image center:
70°42'58"W
19°29'11"N



Sentinel-2 / False color composite / 16 August 2023



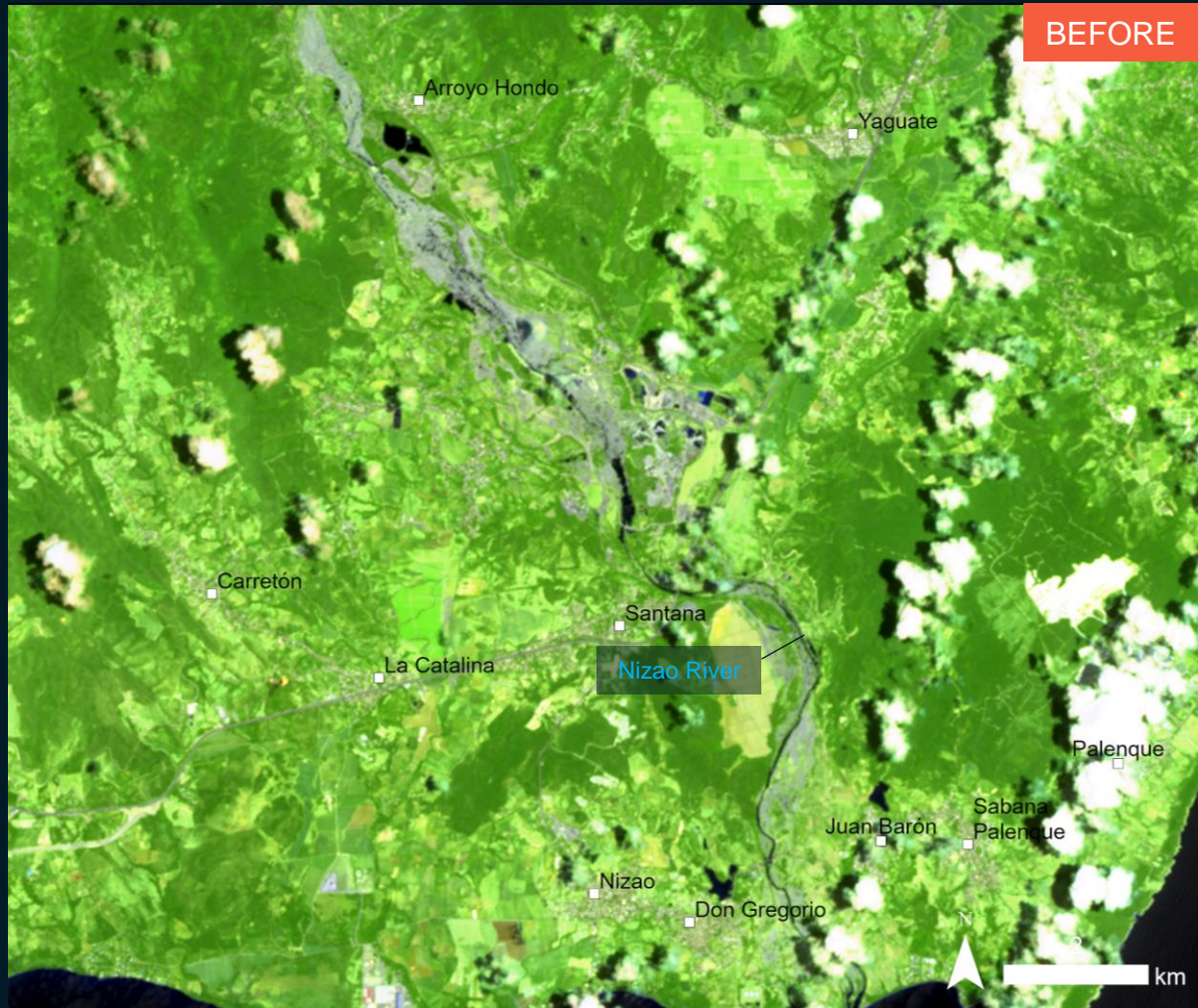
Sentinel-2 / False color composite / 26 August 2023

AOI 2-2: Along the Nizao River in Provincia Peravia and Provincia San Cristóbal, Dominican Republic

Image center:
70°12'22"W
18°16'44"N



Increased water extent along the Nizao River



Sentinel-2 / False color composite / 08 August 2023



Sentinel-2 / False color composite / 28 August 2023

AOI 2-3: Along the Yubazo River and Haina Rivers in Cristóbal and Santo Domingo Provinces, Dominican Republic

Increase of water extent along the Yubazo River over San Cristóbal City

Image center:
70°3'36"W
18°25'35"N



Sentinel-2 / False color composite / 08 August 2023

Sentinel-2 / False color composite / 28 August 2023

AOI 2-4: Along the Ozama River, Provincia Monte Plata, Región Higuamo, Dominican Republic

Flooded area along the Yubazo River

Image center:
69°56'22"W
18°45'25"N



Sentinel-2 / 18 August 2023

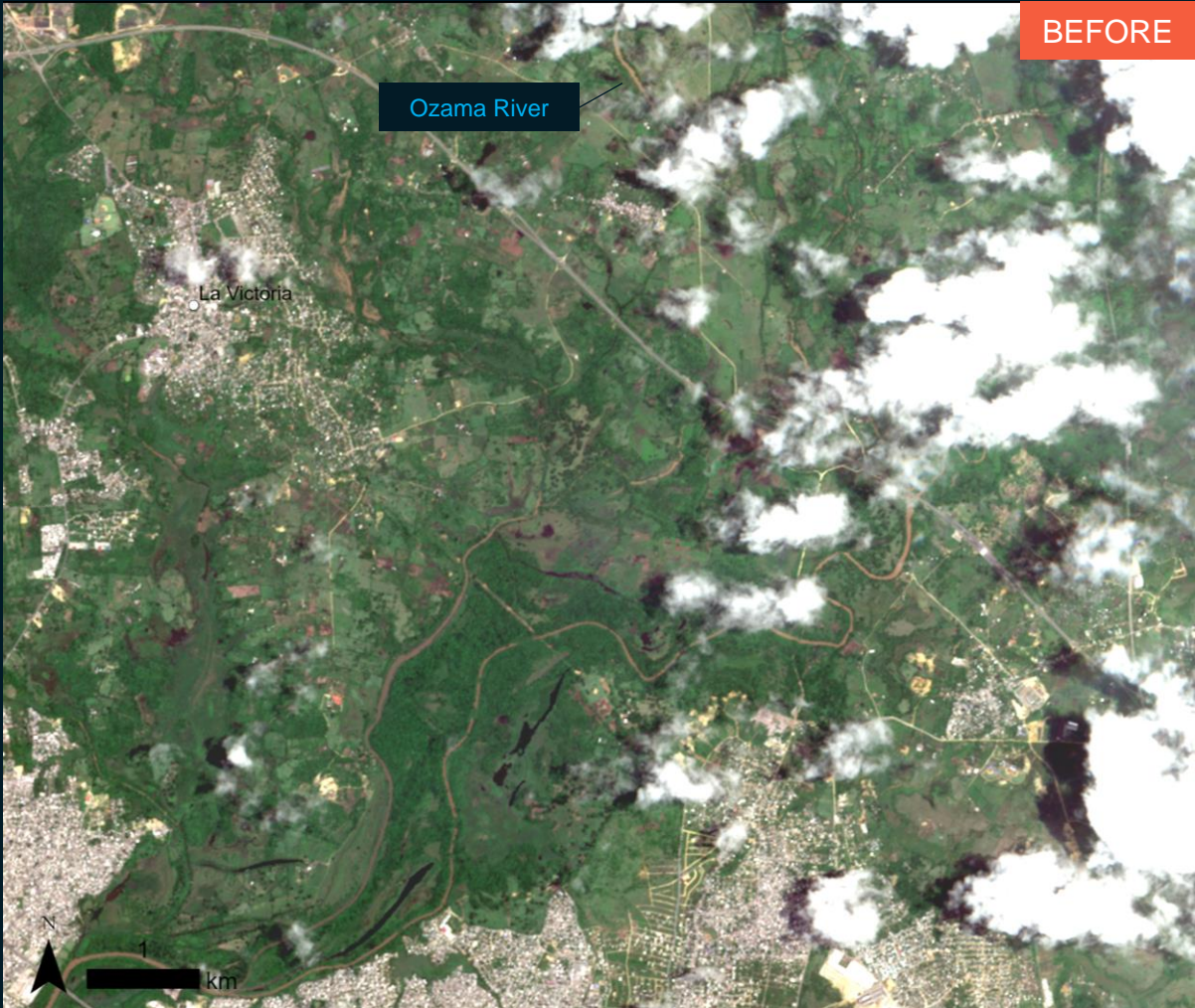


Sentinel-2 / 28 August 2023

AOI 2-5: Along the Ozama River, Provincia Santo Domingo, Región Ozama, Dominican Republic

Flooded area along the Ozama River

Image center:
69°48'38"W
18°34'38"N



Sentinel-2 / 08 August 2023



Sentinel-2 / 28 August 2023

AOI 2-6: Along the Ozama River in Santo Domingo Este Town, Provincia Santo Domingo and Distrito Nacional, Dominican Republic

Increase of water extent along the Ozama River; no major flood observed

Image center:
69°52'42"W
18°29'35"N



Sentinel-2 / 08 August 2023



Sentinel-2 / 28 August 2023

SUMMARY OF FINDINGS

- No major flood observed in Jacmel Town, South-East, Haiti and Thomazeau Commune, West, Haiti as of 26 August 2023;
- No major flood observed in Santiago de los Caballeros, Provincia Santiago, Región El Valle, Dominican Republic as of 26 August 2023;
- Increase of water extent observed along the Nizao River, Yubazo River and the Ozama River, Dominican Republic as of 28 August 2023;
- Flooded area along the Ozama River observed in Provincia Monte Plata, Provincia Santo Domingo, Dominican Republic as of 28 August 2023.

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Data sources:

(1) Satellite Image (Post-event): Sentinel-2

Acquisition date : 26 & 28 August 2023

Resolution: 10m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

(2) Satellite Image (Pre-event): Sentinel-2

Acquisition date : 8, 16 and 18 August 2023

Resolution: 10m

Copyright: Contains modified Copernicus Sentinel data [2023]

Source: ESA

(3) Ancillary data

Haiti Administrative boundaries: Centre National de l'Information Géographique (CNIGS) / OCHA Haiti

Dominican Republic Administrative boundaries: Oficina Nacional de Estadística / OCHA Field Information Services Section (FISS)

Populated place: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)

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