



20 December 2021

TROPICAL CYCLONE RAI-21

PRELIMINARY SATELLITE-DERIVED STANDING WATERS ANALYSIS

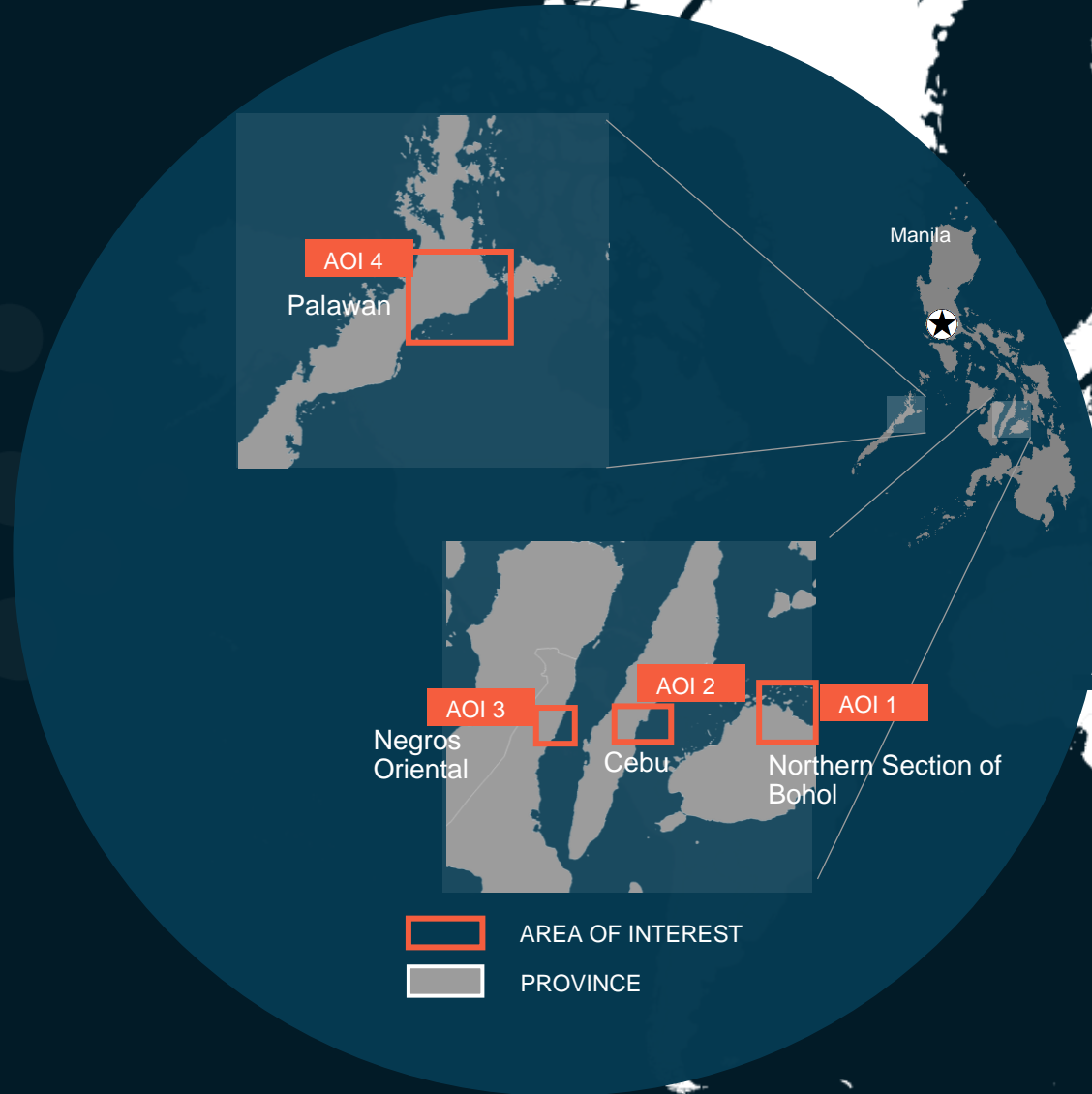
Region IV-B (Mimaropa) and Region VII (Central Visayas); Philippines



-  Status: Inundated agricultural areas observed
-  Further action(s): Continue monitoring



PHILIPPINES



AOI 1-1: BIEN UNIDO & TRINIDAD MUNICIPALITIES, BOHOL ISLAND, REGION VII (CENTRAL VISAYAS)

Increased standing waters

Legend

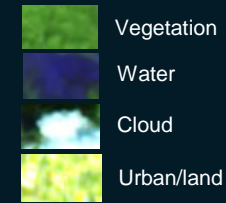


Image center:
10°06'40"N
124°21'20"E



Sentinel-2 / 22 November 2021



Sentinel-2 / 17 December 2021

AOI 1-2: UBAY MUNICIPALITY, BOHOL ISLAND, REGION VII (CENTRAL VISAYAS)

Standing waters observed in the vicinity of Ubay city

Legend

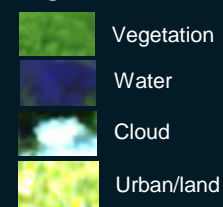


Image center:
10°01'45"N
124°27'42"E



Sentinel-2 / 22 November 2021



Sentinel-2 / 17 December 2021

AOI 2-1: CITY OF CARCAR MUNICIPALITY, CEBU ISLAND, REGION VII (CENTRAL VISAYAS)

Standing waters in agricultural area

Legend

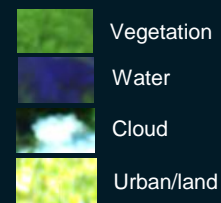
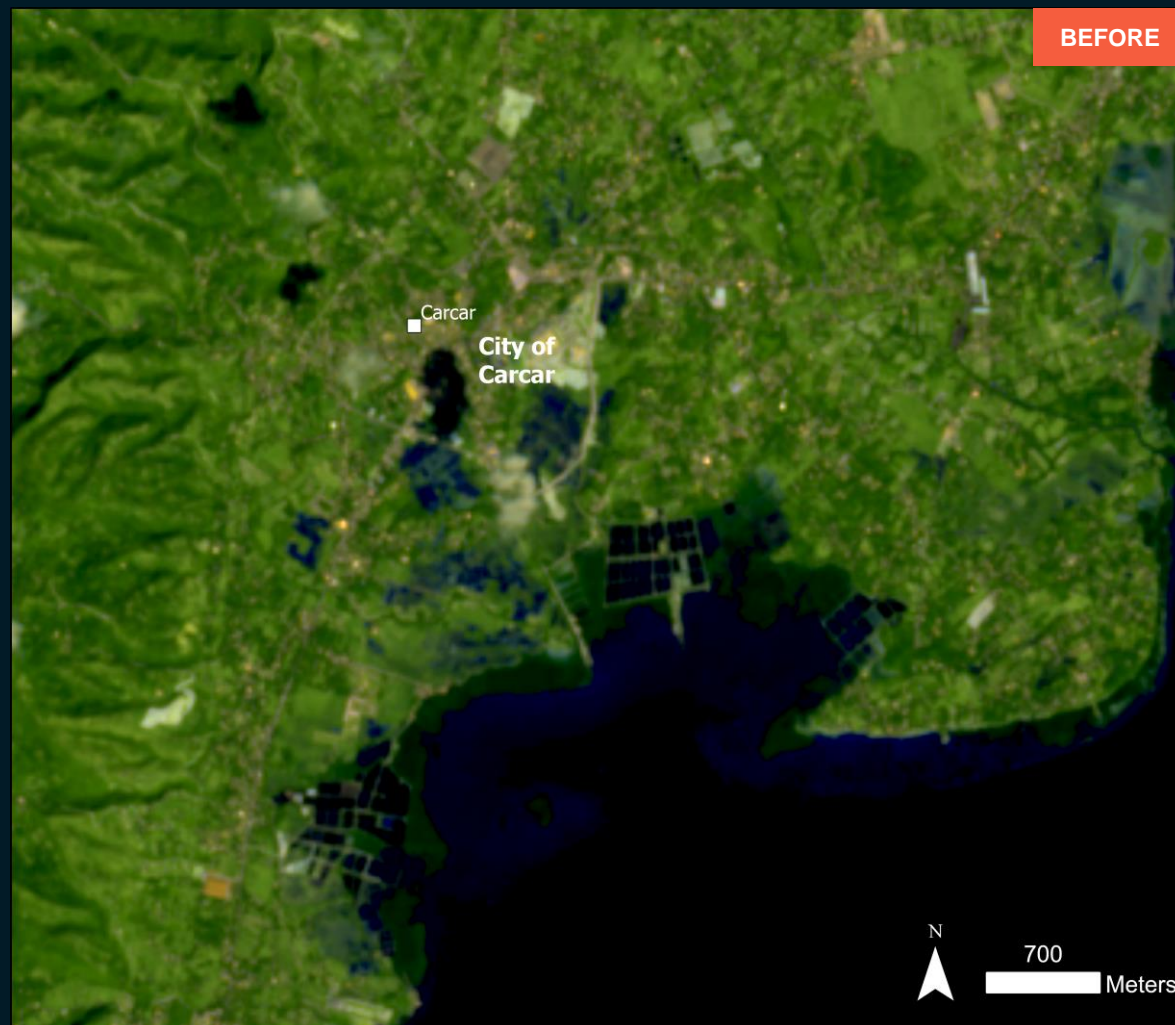


Image center:
10°05'30"N
123°38'35"E



Sentinel-2 / 20 November 2021



Sentinel-2 / 20 December 2021

AOI 2-2: MANDAUE CITY & CONSOLACION MUNICIPALITIES, CEBU ISLAND, REGION VII (CENTRAL VISAYAS)

No major floods observed

Legend

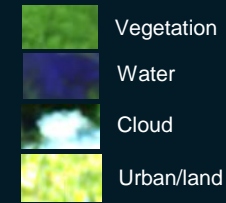
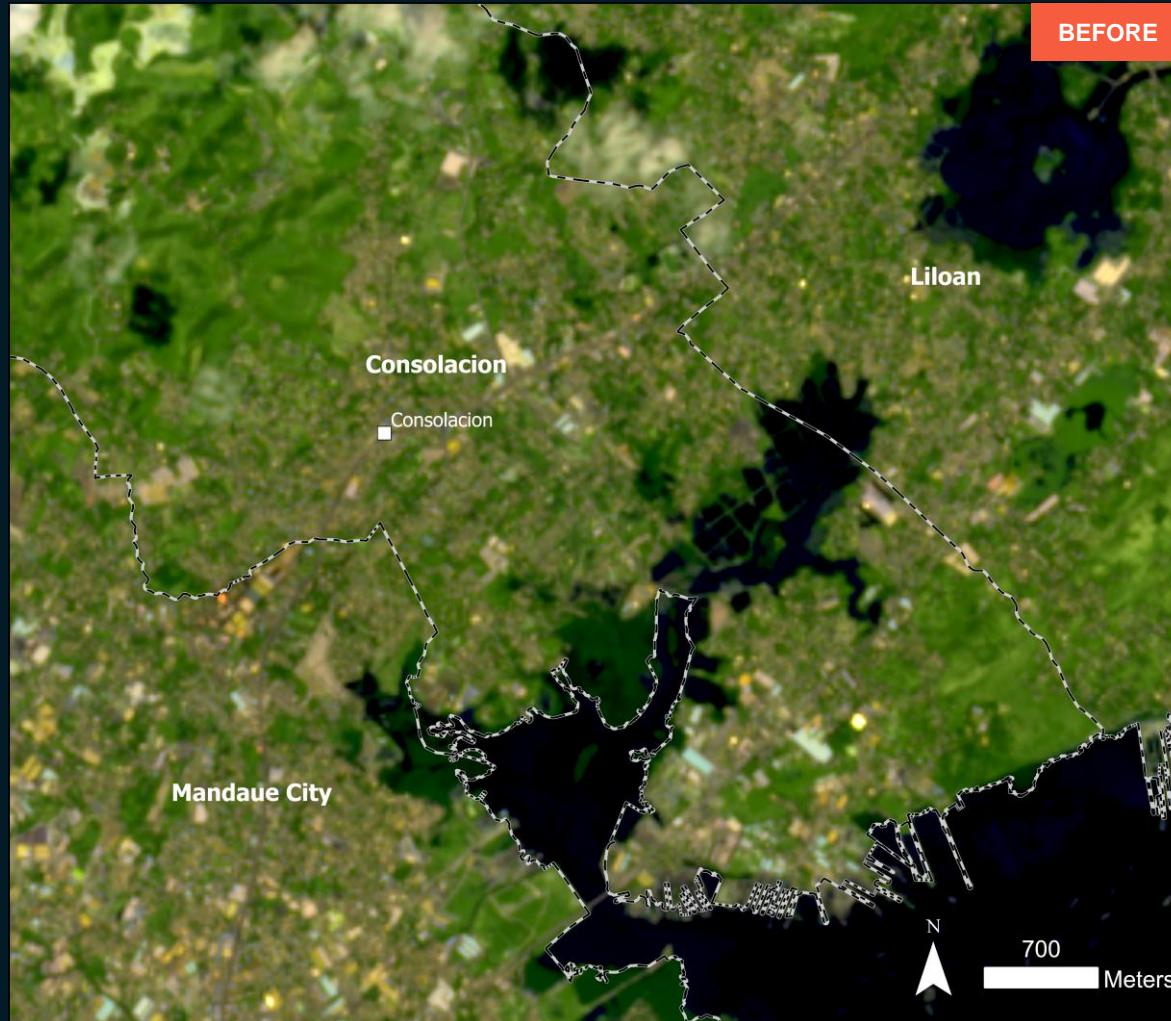
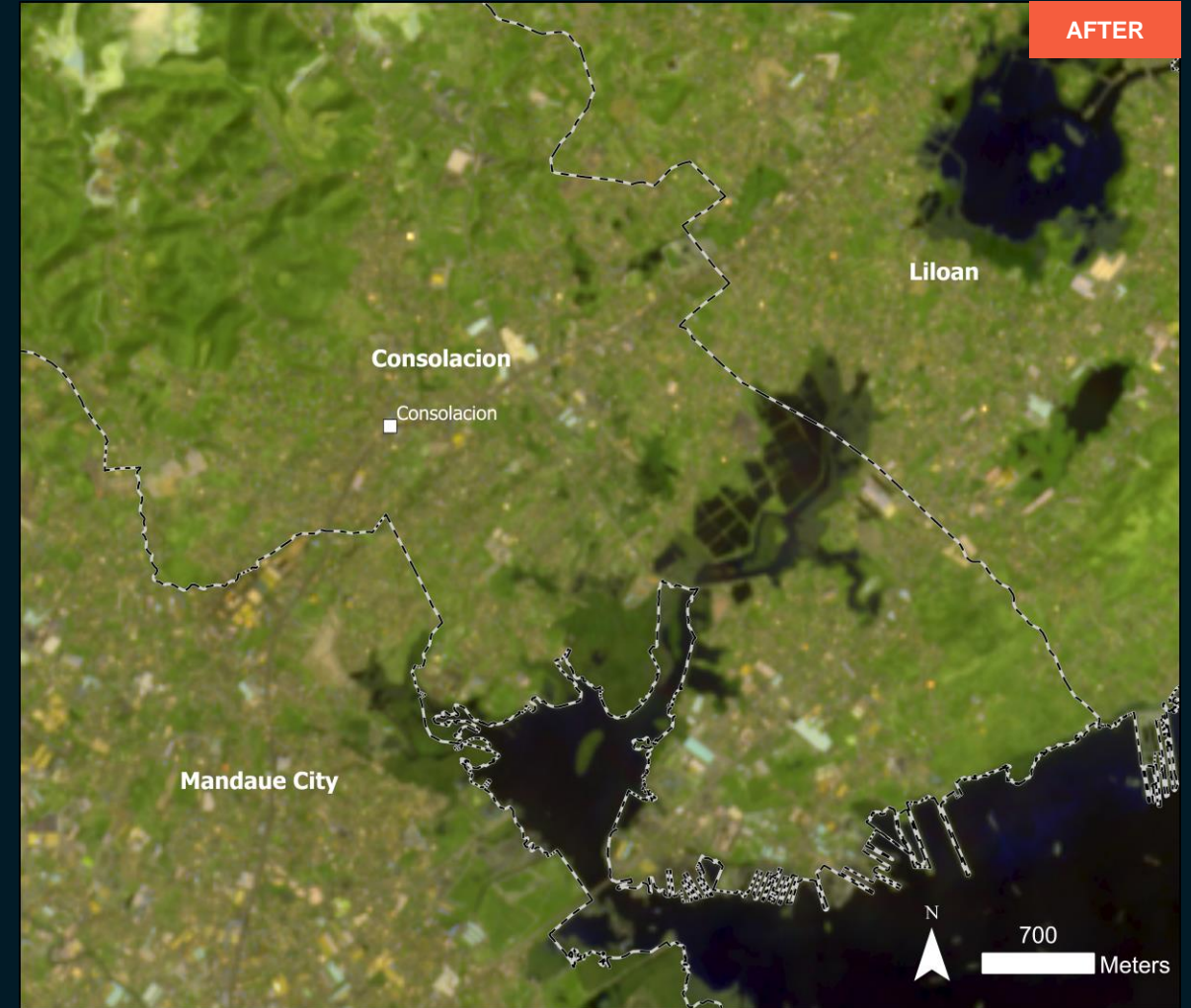


Image center:
10°22'11"N
123°58'18"E



Sentinel-2 / 20 November 2021



Sentinel-2 / 20 December 2021

AOI 3: LA LIBERTAD MUNICIPALITY, NEGROS ISLAND, REGION VII (CENTRAL VISAYAS)

No major floods observed

Legend

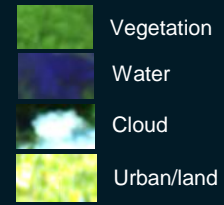
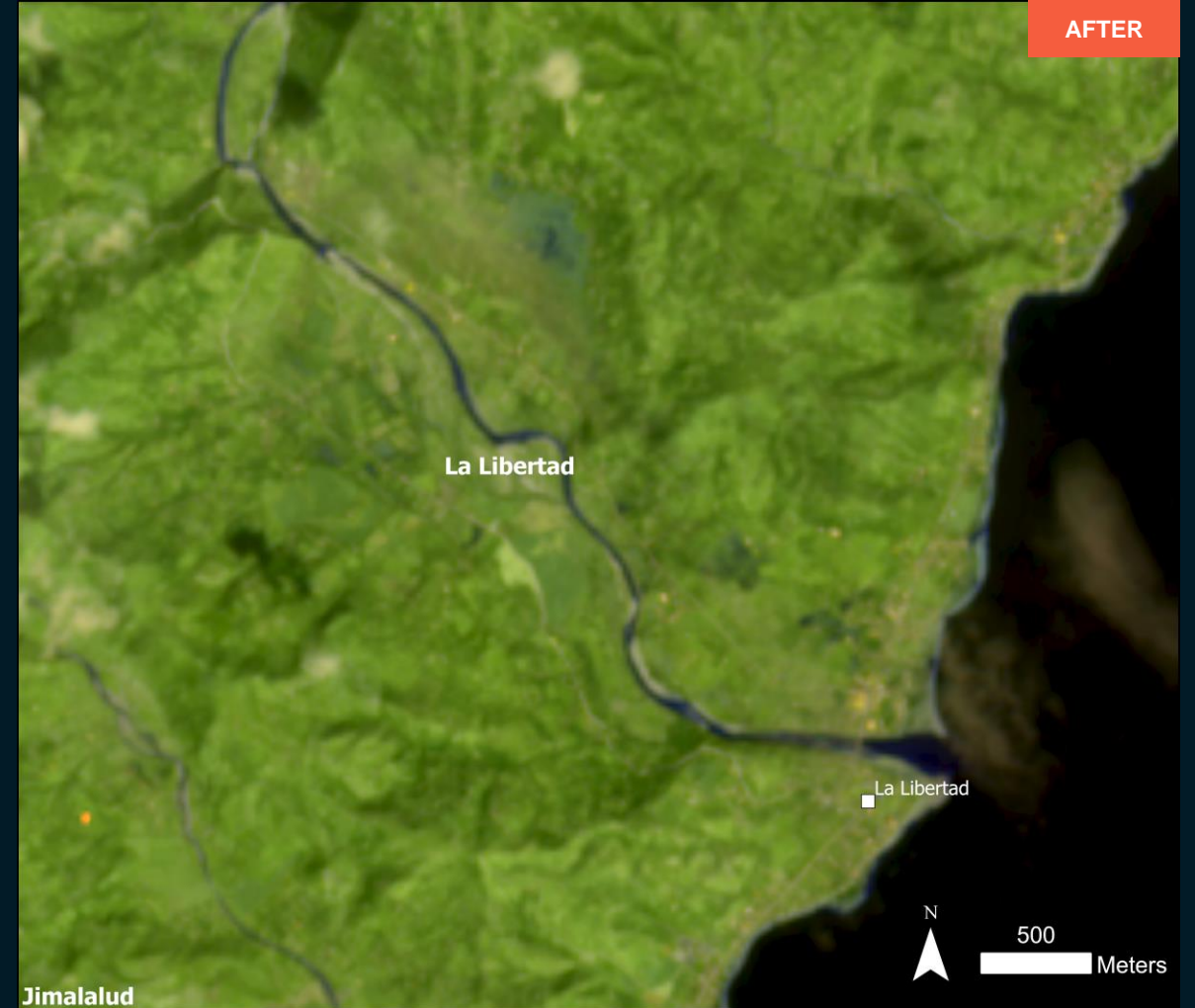


Image center:
10°02'09"N
123°13'22"E



Sentinel-2 / 20 November 2021



Sentinel-2 / 20 December 2021

AOI 4-1: ROXAS MUNICIPALITY, PALAWAN ISLAND, REGION IV-B (MIMAROPA)

Inundated agricultural areas

Legend

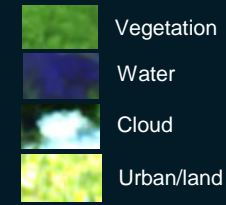
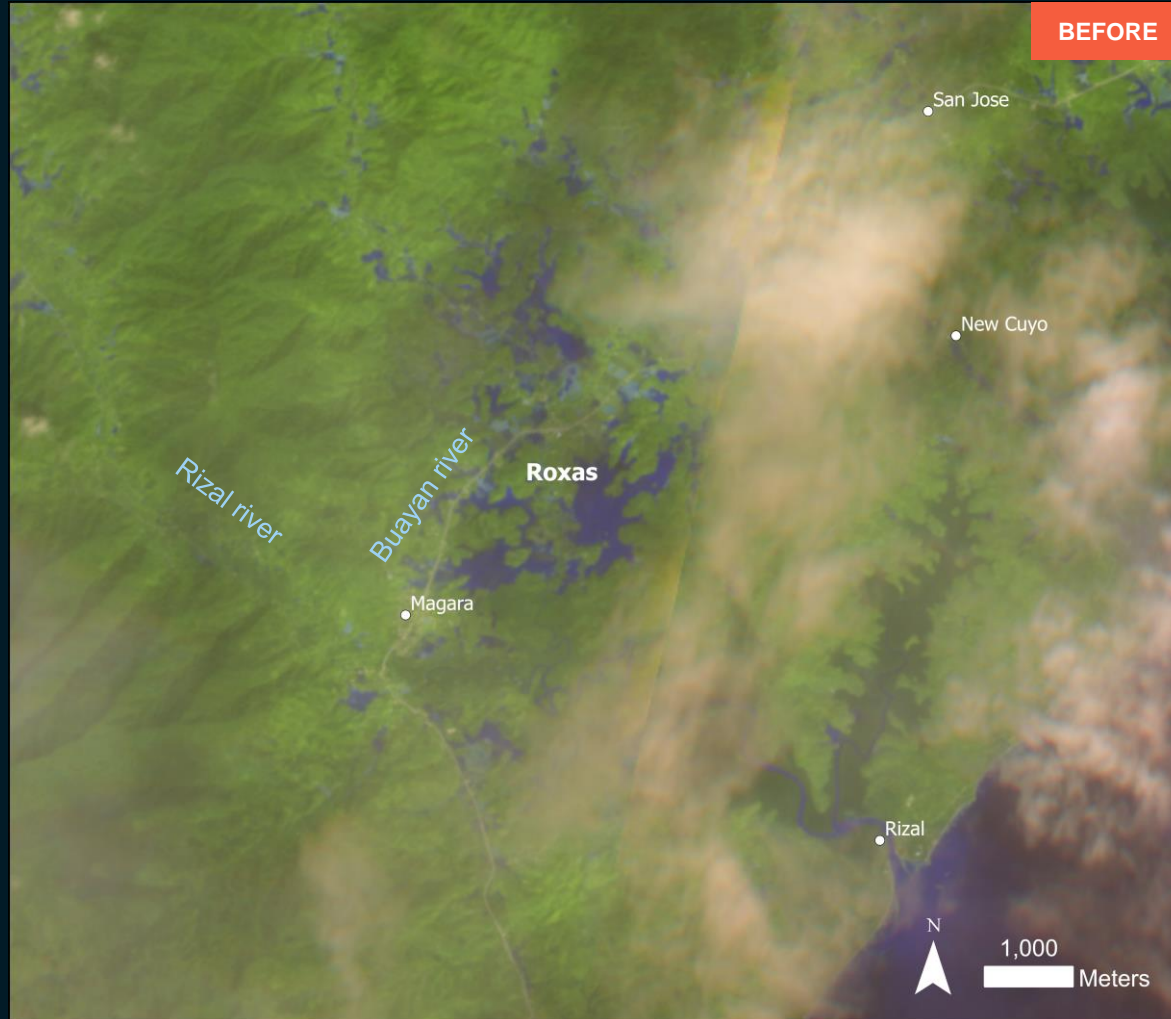


Image center:
10°15'56"N
119°33'16"E



Sentinel-2 / 28 November 2021



Sentinel-2 / 18 December 2021

AOI 4-2: ROXAS MUNICIPALITY, PALAWAN ISLAND, REGION IV-B (MIMAROPA)

Increased waters

Legend

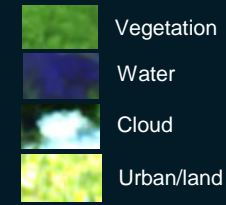


Image center:
10°22'18"N
119°22'34"E



Sentinel-2 / 28 November 2021



Sentinel-2 / 18 December 2021

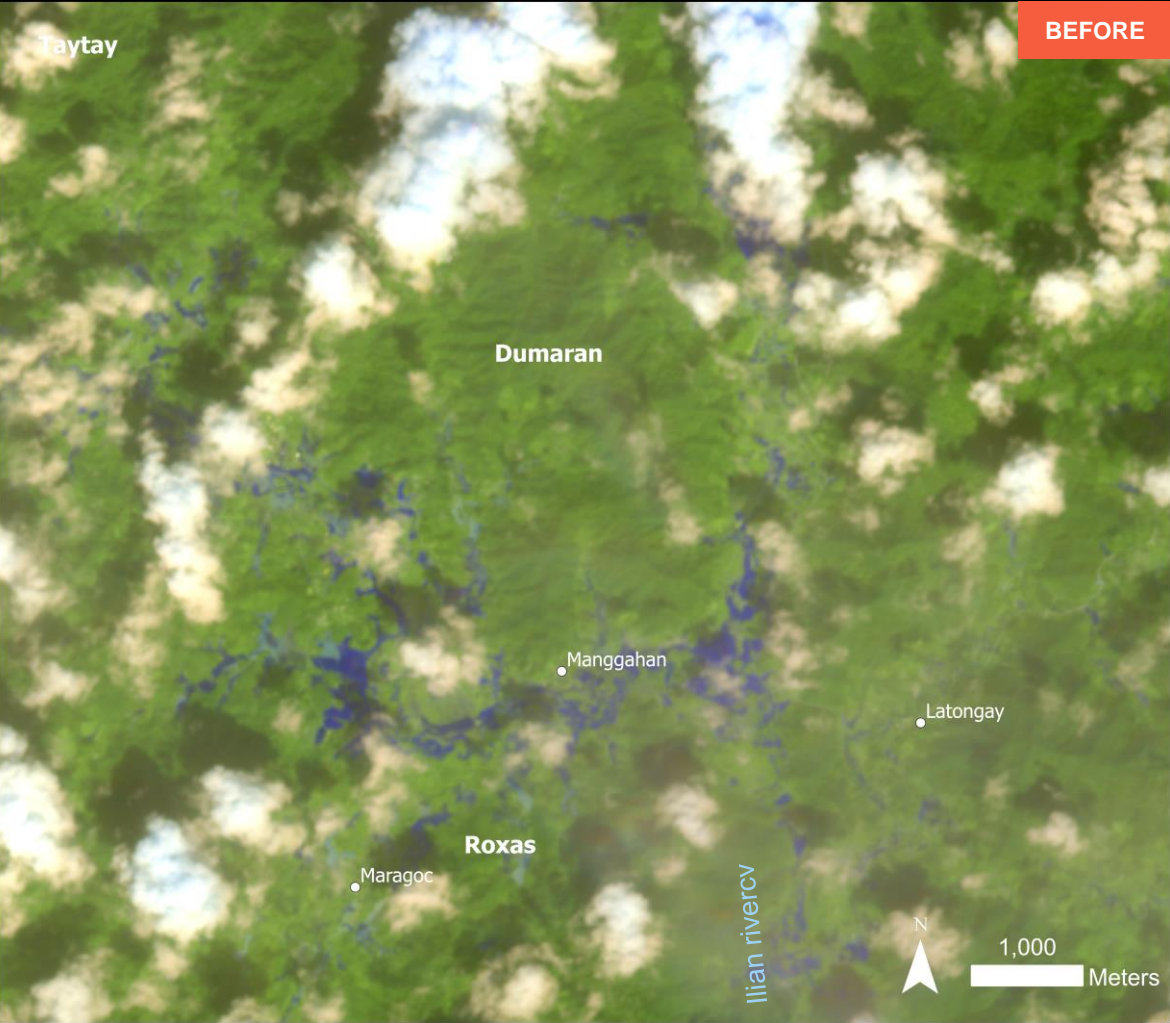
**AOI 4-3: DUMARAN & ROXAS MUNICIPALITIES,
PALAWAN ISLAND, REGION IV-B (MIMAROPA)**

Inundated agricultural areas

Legend

- Vegetation
- Water
- Cloud
- Urban/land

Image center:
10°32'08"N
119°32'21"E



Sentinel-2 / 28 November 2021



Sentinel-2 / 18 December 2021

AOI 4-4: DUMARAN MUNICIPALITY, PALAWAN ISLAND, REGION IV-B (MIMAROPA)

Standing waters in agricultural lands

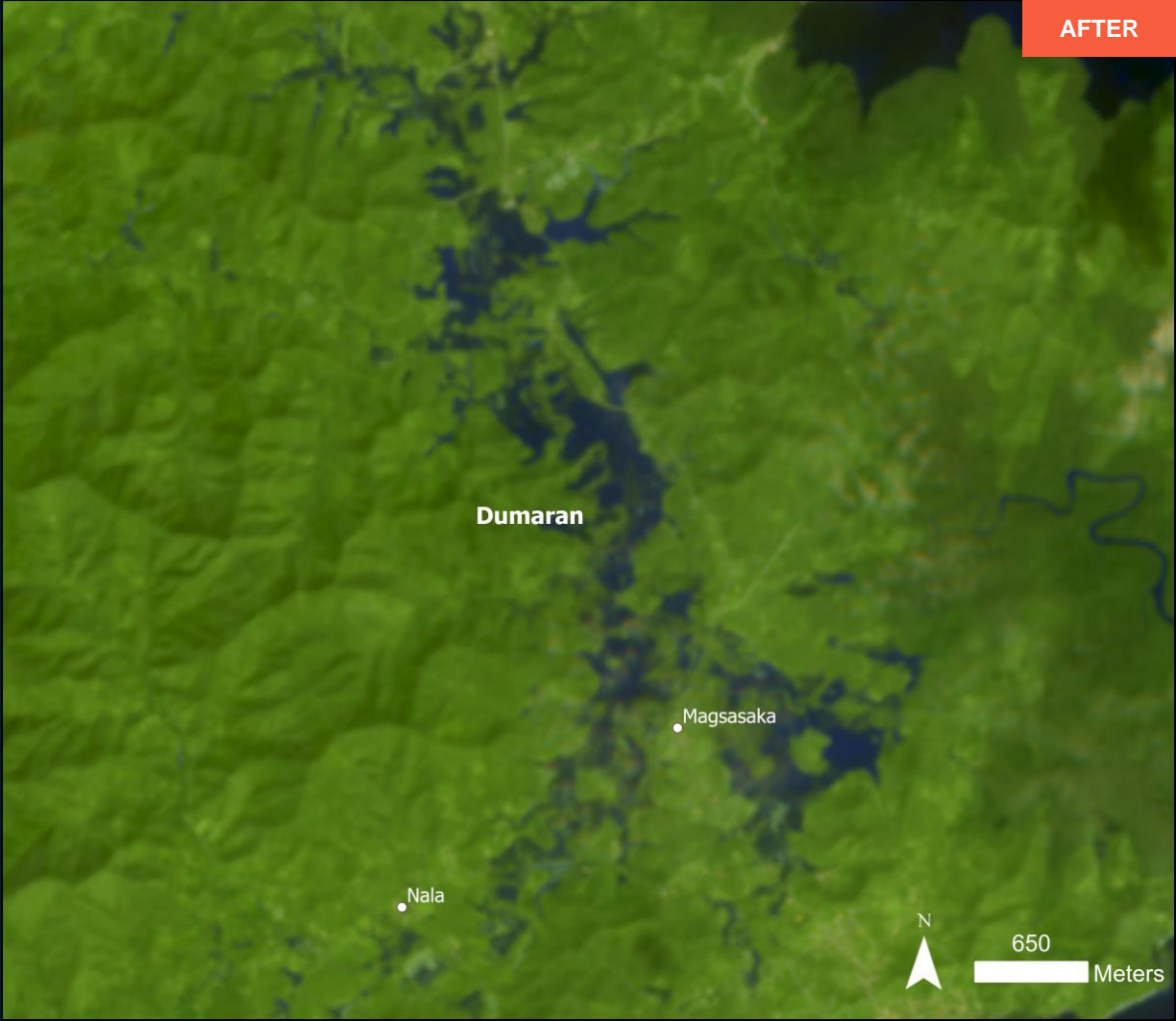
Legend

- Vegetation
- Water
- Cloud
- Urban/land

Image center:
10°31'01"N
119°39'50"E



Sentinel-2 / 28 November 2021



Sentinel-2 / 18 December 2021

SUMMARY OF FINDINGS

- Increased standing waters observed in the northern parts of Bohol Island as of 17 December 2021;
- Standing waters observed in Carcar's agricultural area, Cebu Island as of 20 December 2021;
- No major floods observed in Mandaue city, Cebu island as of 20 December 2021;
- No major floods observed in the vicinity of La Libertad city, Negros Island as of 20 December 2021;
- Inundated agricultural area observed in Roxas and Dumaran Municipalities, Palawan Island as of 18 December 2021;

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Data sources:

(1) Satellite Image (Post-event)

Sentinel-2 / 17, 18 & 20 December 2021

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel Data [2021]

Source: ESA / The Charter

(2) Satellite Image (Pre-event)

Sentinel-2 / 20, 22 & 28 November 2021

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel Data [2021]

Source: ESA

(3) Ancillary data

Administrative boundaries: National Mapping and Resource Information Authority (NAMRIA), Philippines Statistics Authority (PSA)

Populated places: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)



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