



19 November 2024

PRELIMINARY SATELLITE-DERIVED IMPACT ASSESSMENT



CATANDUANES PROVINCE, BICOL REGION, THE PHILIPPINES

 Status: Damaged structures observed

 Further action(s): Continue monitoring

PHILIPPINES

19 November 2024



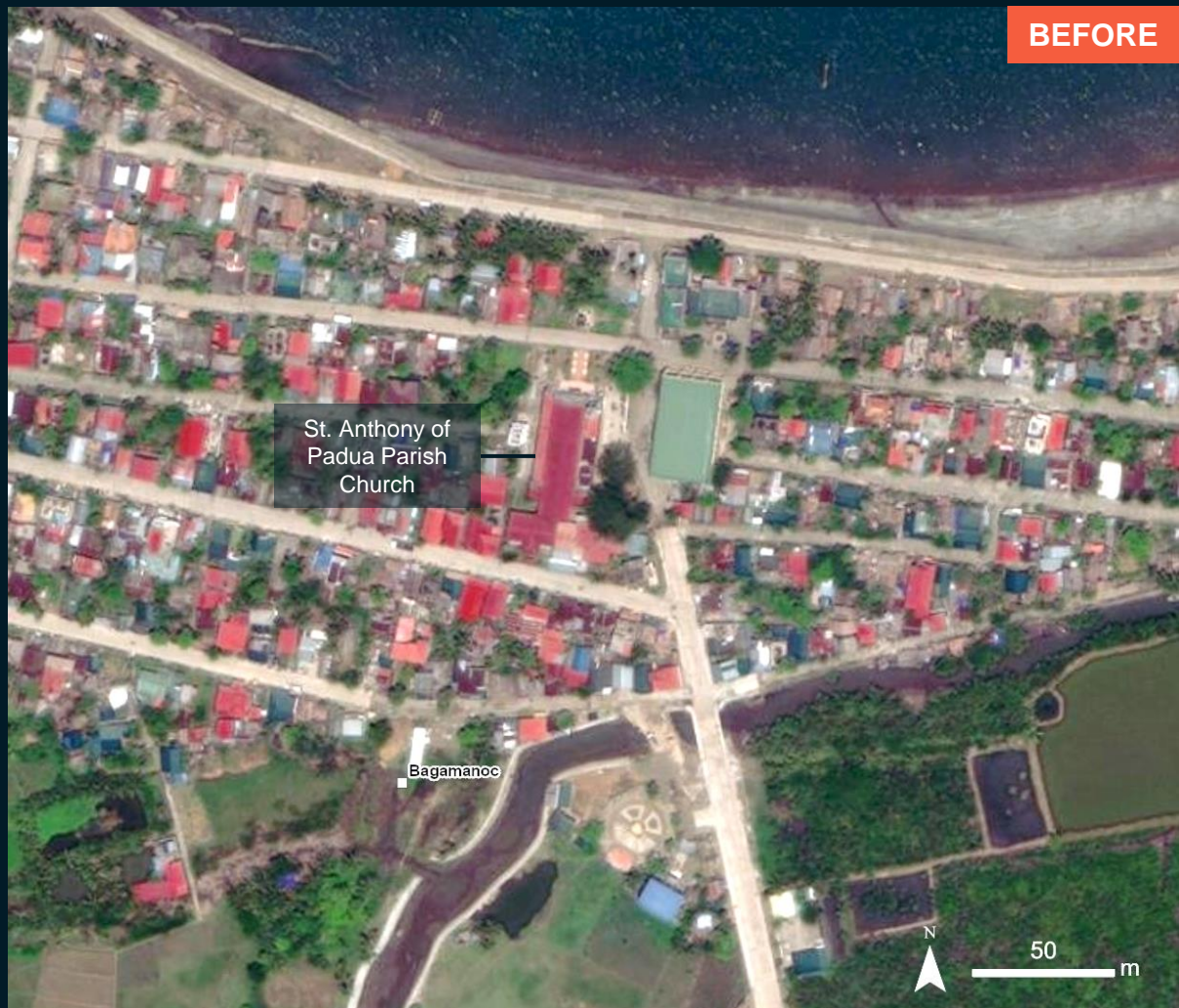
AOI
Catanduanes
Province

AOI 1: BAGAMANOC TOWN, CATANDUANES PROVINCE

Widespread damaged structures

Catanduanes
Province

Image center:
124°17'19"E
13°56'26"N



BEFORE



AFTER

WorldWiew-3/ 29 May 2018

Pléiades / 18 November 2024

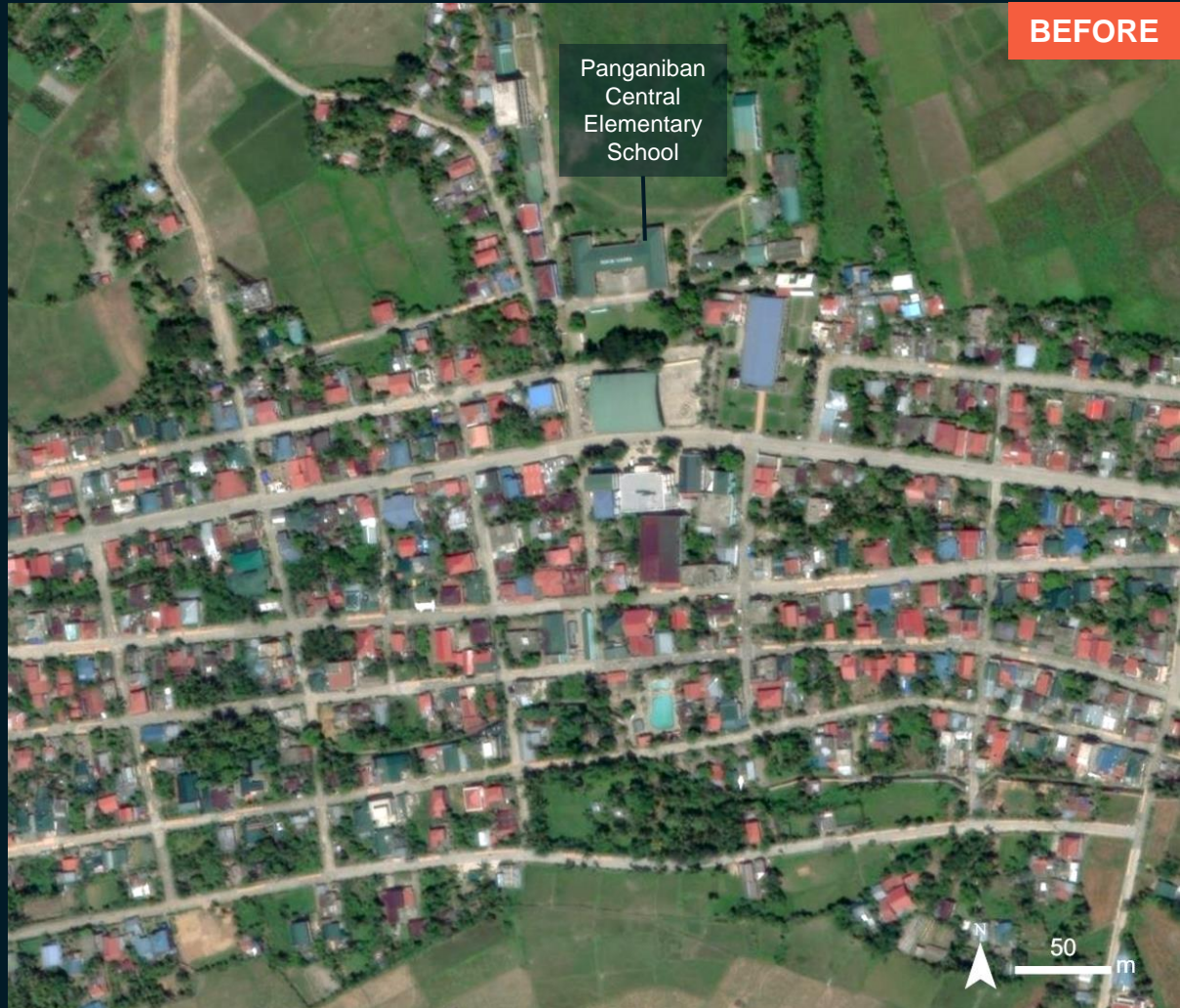
AOI 2: PANGANIBAN TOWN, CATANDUANES PROVINCE

Widespread damaged structures

Catanduanes
Province



Image center:
124°18'2"E
13°54'28"N



BEFORE

Panganiban
Central
Elementary
School



AFTER

Panganiban
Central
Elementary
School



Potentially
affected structures

Panganiban

WorldWiew-3/ 29 May 2018

Pléiades / 18 November 2024

AOI 3: GIGMOTO TOWN, CATANDUANES PROVINCE

Potentially affected structures

Catanduanes
Province

Image center:
124°23'31"E
13°46'50"N



BEFORE

WorldView-3/ 29 May 2018



AFTER

Pléiades / 18 November 2024

AOI 4: VIRAC TOWN, CATANDUANES PROVINCE

Damaged structures

Catanduanes
Province

Image center:
124°13'50"E
13°34'51"N



WorldView-3/ 29 May 2018



Pléiades / 18 November 2024

AOI 5: VIRAC TOWN, CATANDUANES PROVINCE

Potentially affected structures

Catanduanes Province

Image center:
124°14'11"E
13°35'6"N



BEFORE



AFTER

WorldView-3/ 29 May 2018

Pléiades / 18 November 2024

AOI 6: VIRAC TOWN, CATANDUANES PROVINCE

No visible damage

Catanduanes
Province

Image center:
124°14'1"E
13°34'55"N



WorldView-3/ 29 May 2018



Pléiades / 18 November 2024

AOI 7: VIRAC TOWN, CATANDUANES PROVINCE

No visible damage

Catanduanes
Province

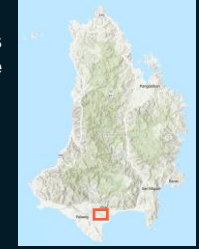
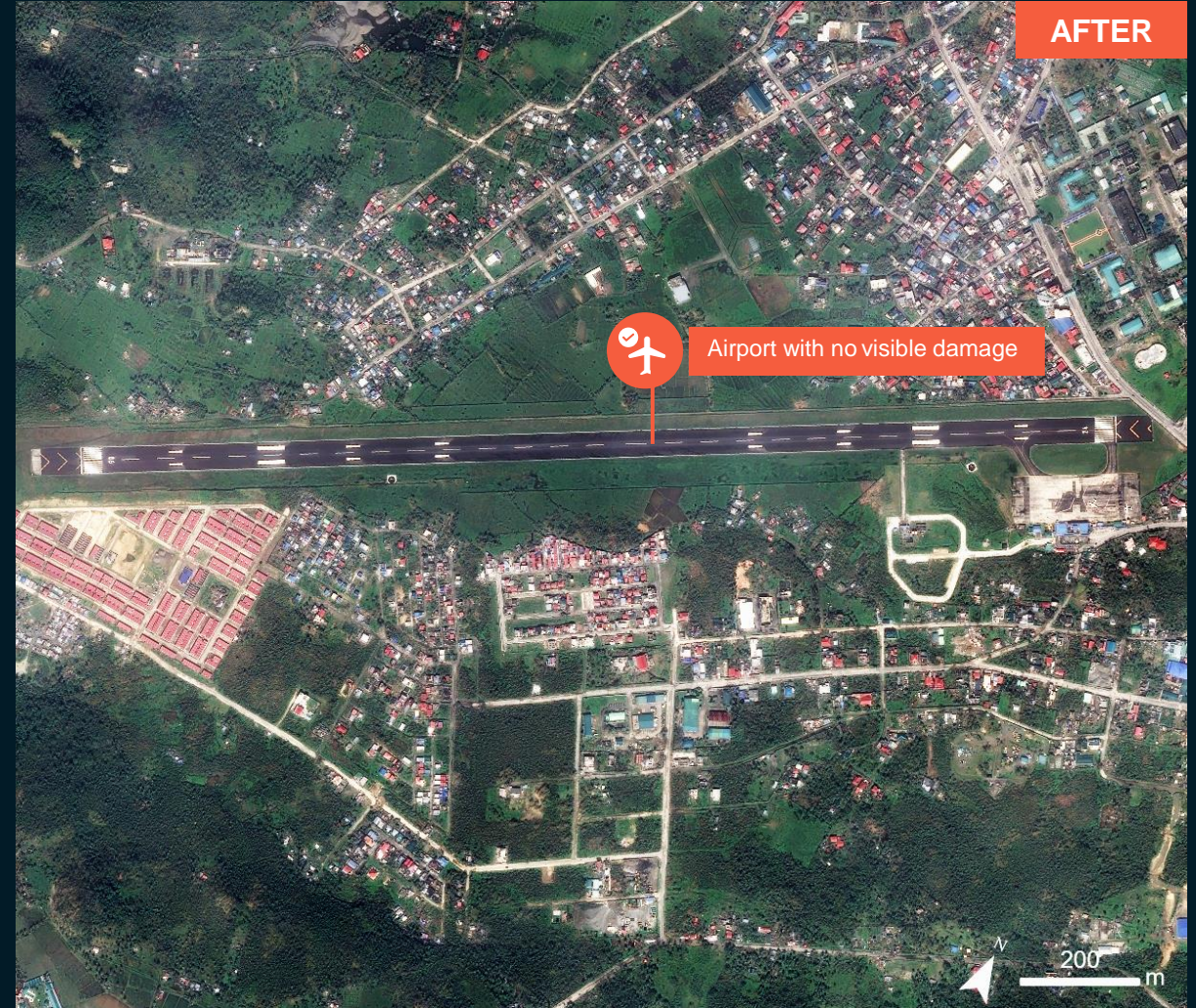


Image center:
124°12'21"E
13°34'36"N



BEFORE



AFTER

Airport with no visible damage

WorldView-3/ 29 May 2018

Pléiades / 18 November 2024

SUMMARY OF FINDING

- No visible damage has been observed in the Virac airport and Virac port in Virac town, Catanduanes Province, Region V (Bicol Region), as of 19 November 2024.
- No flood has been observed in Catanduanes Province, Region V (Bicol Region), as of 19 November 2024.
- Widespread damaged structural has been observed in Catanduanes Province, Region V (Bicol Region), as of 19 November 2024.

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Data sources:

(1) Satellite Imagery (Post-event): Pléiades

Acquisition date: 18 November 2024 at 02:20 UTC

Resolution : 50 cm

Copyright: Includes Pleiades material © CNES (2024), Distribution Airbus D&S

Source: Airbus D&S

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

Acquisition date: 18 November 2024 at 09:43 UTC and 21:40 UTC

Resolution : 3 m

Copyright : RADARSAT Constellation Mission Imagery © Government of Canada (2024)

Source : CSA

(3) Satellite Imagery (Pre-event):WorldView-3

Acquisition date: 29 May 2018

Resolution : : 30 cm

Copyright: © Maxar (2018)

Source: ESRI Basemap

(4) Ancillary data

Populated place: OpenStreetMap

Waterways: OpenStreetMap

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

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)



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