

TROPICAL CYCLONE JUDY AND KEVIN, PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT IN VANUATU



VANUATU

Efate Island - Shefa Province

Erromango, Tanna & Aniwa Islands - Tafea Province

Espiritu Santo Island - Sanma Province

Malakula Island - Malampa Province



Status: Impact on structures observed



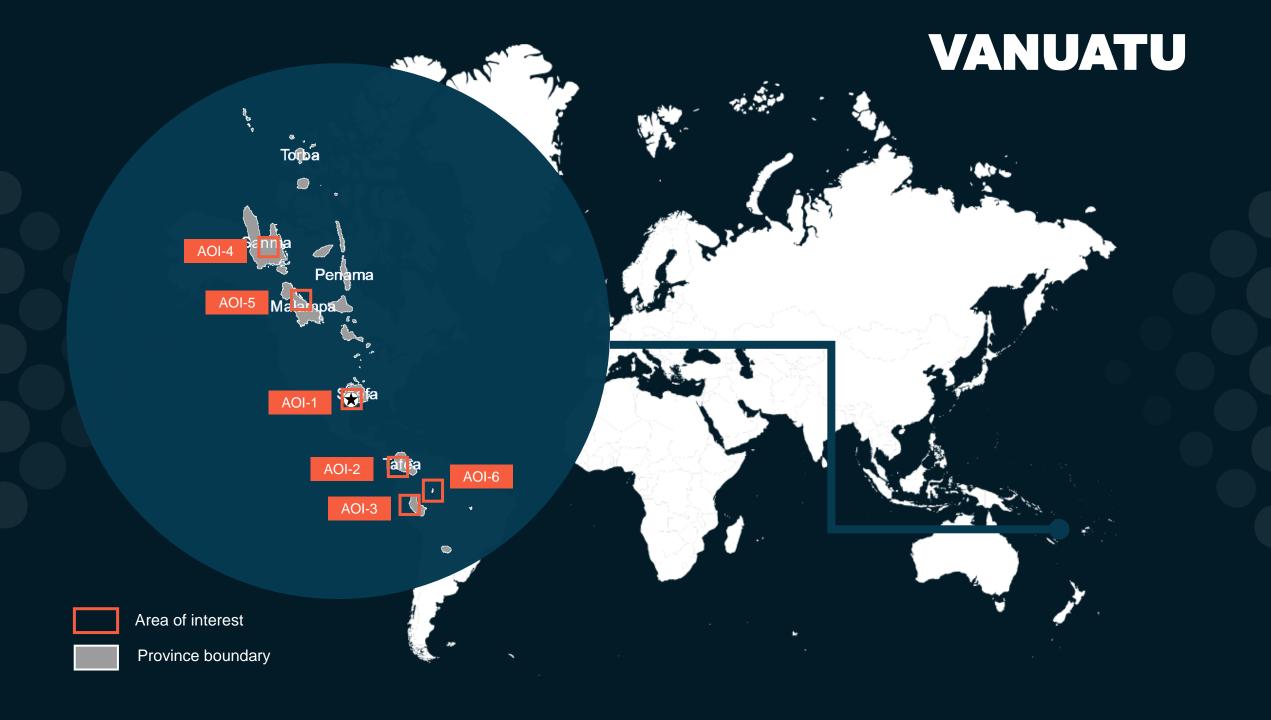
Further action(s): Continue monitoring















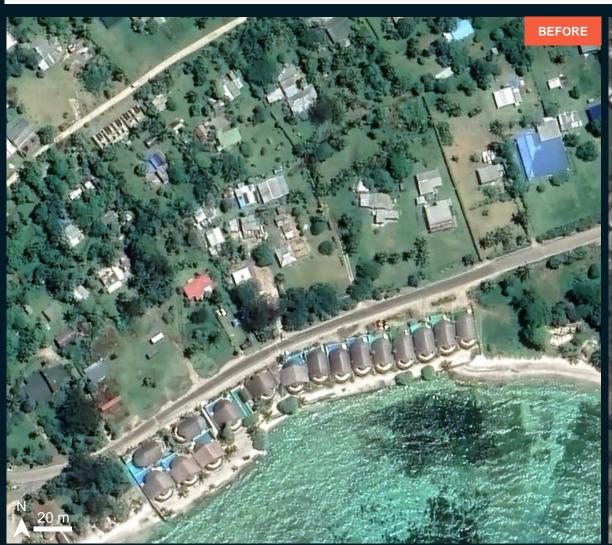
AOI 1 PORT VILA, EFATE ISLAND - SHEFA PROVINCE

Image center: 168°17'33.137"E 17°46'31.307"S





Widespread damaged structures observed





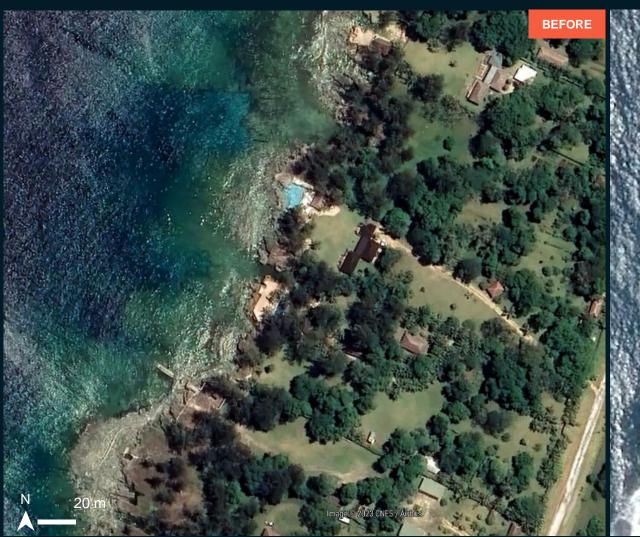
AOI 1 PORT VILA, EFATE ISLAND - SHEFA PROVINCE

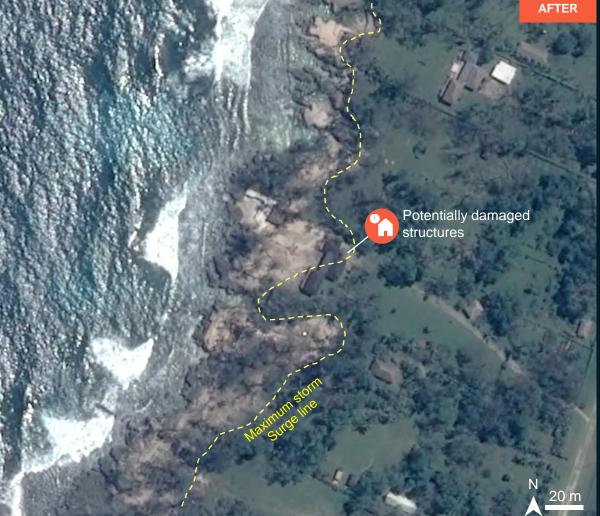
Image center: 168°10'25.178"E 17°43'24.173"S





Potentially damaged structures by the storm surge







AOI 3 LENAKEL VILLAGE, TANNA ISLAND - TAFEA PROVINCE

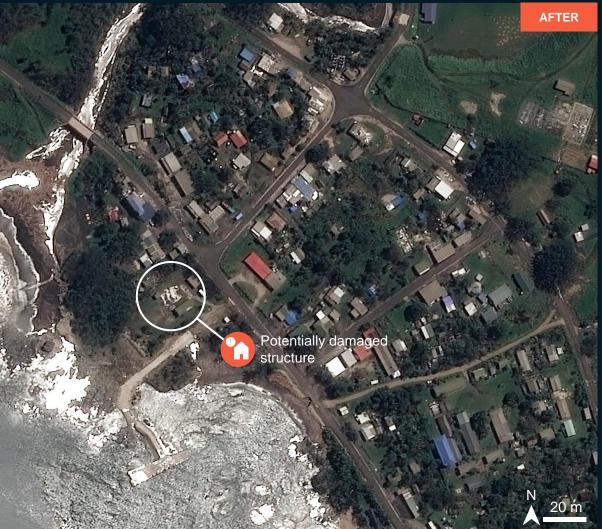
Image center: 168°17'33.137"E 17°46'31.307"S





Potentially damaged structures observed





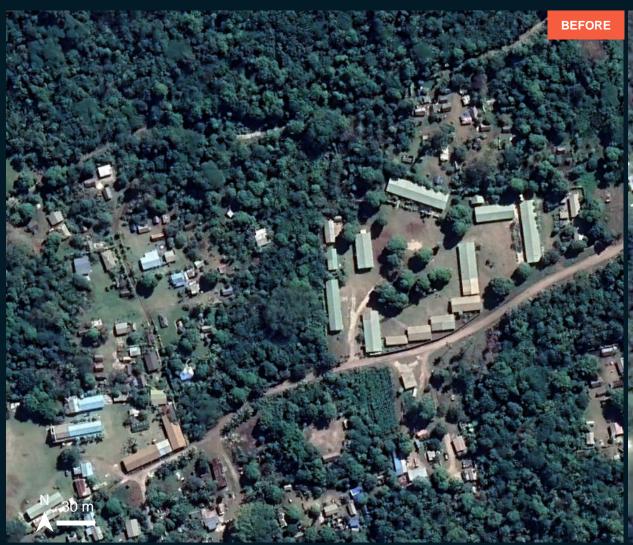
AOI 3 LOWANATOM VILLAGE, TANNA ISLAND - TAFEA PROVINCE

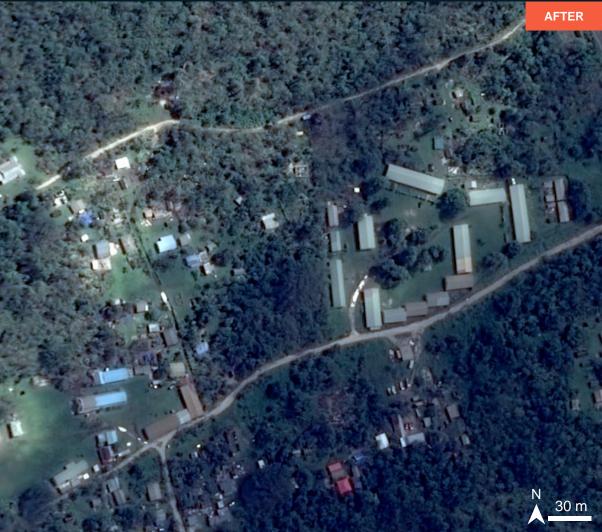
Image center: 169°14'47.431"E 19°30'16.697"S





No visible damage observed





WorldView / 4 August 2021

Pleiades / 4 March2023

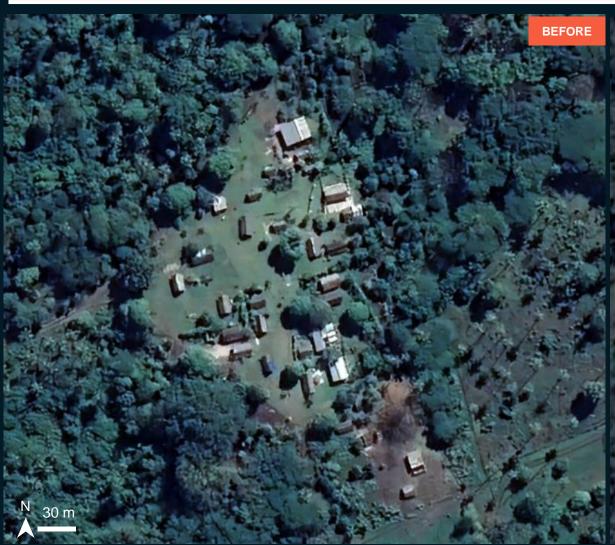
AOI 3 LENUS VILLAGE, TANNA ISLAND - TAFEA PROVINCE

Image center: 169°14'25.261"E 19°29'48.019"S





Potentially damaged structures observed







AOI 4 LUGANVILLE CITY, ESPIRITU SANTO ISLAND - SANMA PROVINCE

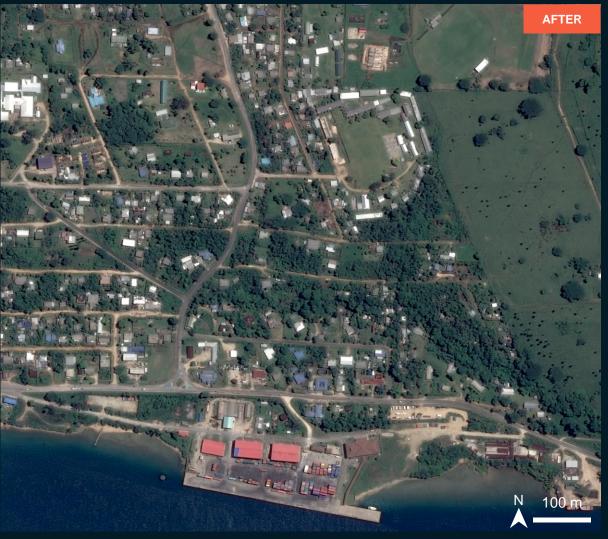
Image center: 167°11'21"E 15°30'43"S





No visible damage observed





AOI 5 LITSLITS VILLAGE, MALAKULA ISLAND - MALAMPA PROVINCE

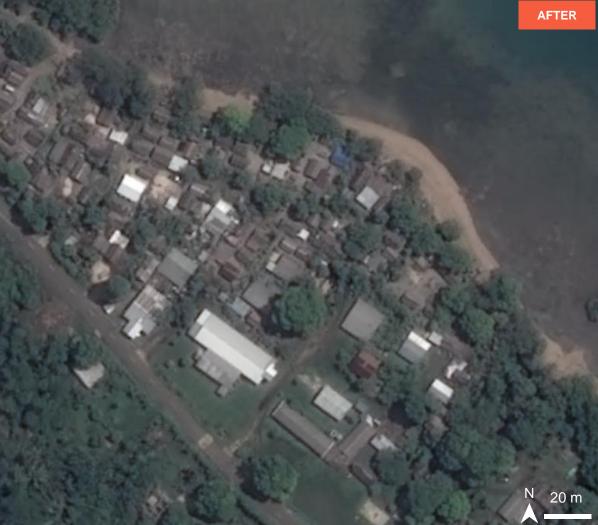
Image center: 167°26'16"E 16°16,45"S





No visible damage observed





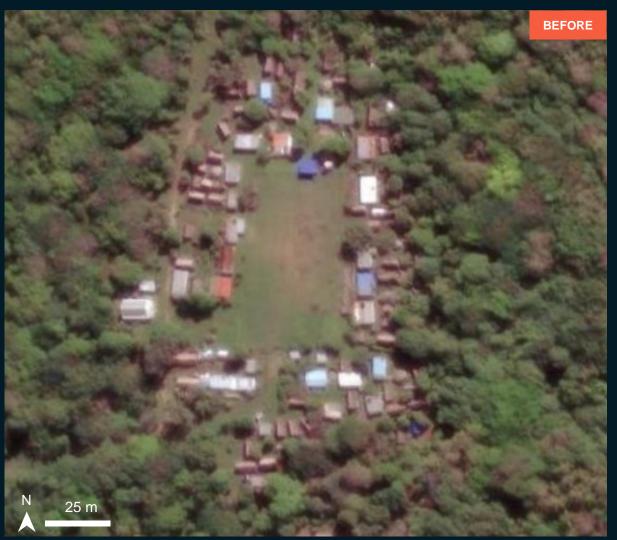
AOI 6 ISAVAI HAMLET, ANIWA ISLAND - TAFEA PROVINCE

Image center: 169°35'59"E 19°15'21"S





Potentially damaged structures observed





AOI 6 IFANGAWE HAMLET, ANIWA ISLAND, TAFEA PROVINCE

Image center: 169°36'00"E 19°15'58"S





Damaged and potentially damaged structures observed





SUMMARY OF FINDINGS



From the images acquired on 04th of March 2023, the findings are the following:

- Widespread damaged structures observed in Port Vila, Efate Island Shefa Province;
- Potentially damaged structures by the storm surge observed along the western shoreline of Efate Island;
- Damaged structures observed in Unpongkor village, Erromango Island Tafea province
- Potentially damaged structures observed in Lenakel and Lenus villages;
- No visible damage observed in Lowanatom village on Tanna Island Tafea province;
- No visible damage observed in Luganville city on Espiritu Santo Island Sanma province and Litslits village on Malakula Island - Malampa province;
- Damaged and potentially damaged structures observed in Ifangawe and Isavai hamlets on Aniwa Island Tafea province.

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Data sources:

(1) Satellite Image (Post-event)

Pleiades: 04 March 2023

Resolution: 50 cm

Copyright: CNES (2023) Distribution Airbus D&S

Source: Airbus Defence and Space

(2) Satellite Image (Pre-event)

Worldview-2: 13 July 2022

Resolution: 50 cm

Copyright: © DigitalGlobe, Inc. (2022)

Source: USGS / HDDS

(3) Ancillary data

Administrative boundaries: PopGIS2: Secretarial of the Pacific

Community (SPC), Statistics for Development Division

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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