


27 Oct. 2023




TROPICAL CYCLONE LOLA-23, PRELIMINARY SATELLITE-DERIVED AGRICULTURAL DAMAGE ASSESSMENT,



Tikopia Island, Naunonga Island, Utupua Island and Temotu-Nende Island
Temotu Province, Solomon Islands

 Status: Affected agricultural area observed

 Further action(s): Completed



SOLOMON ISLANDS



- Exclusive economic zone (EEZ)
- Area of interest
- Islands boundary

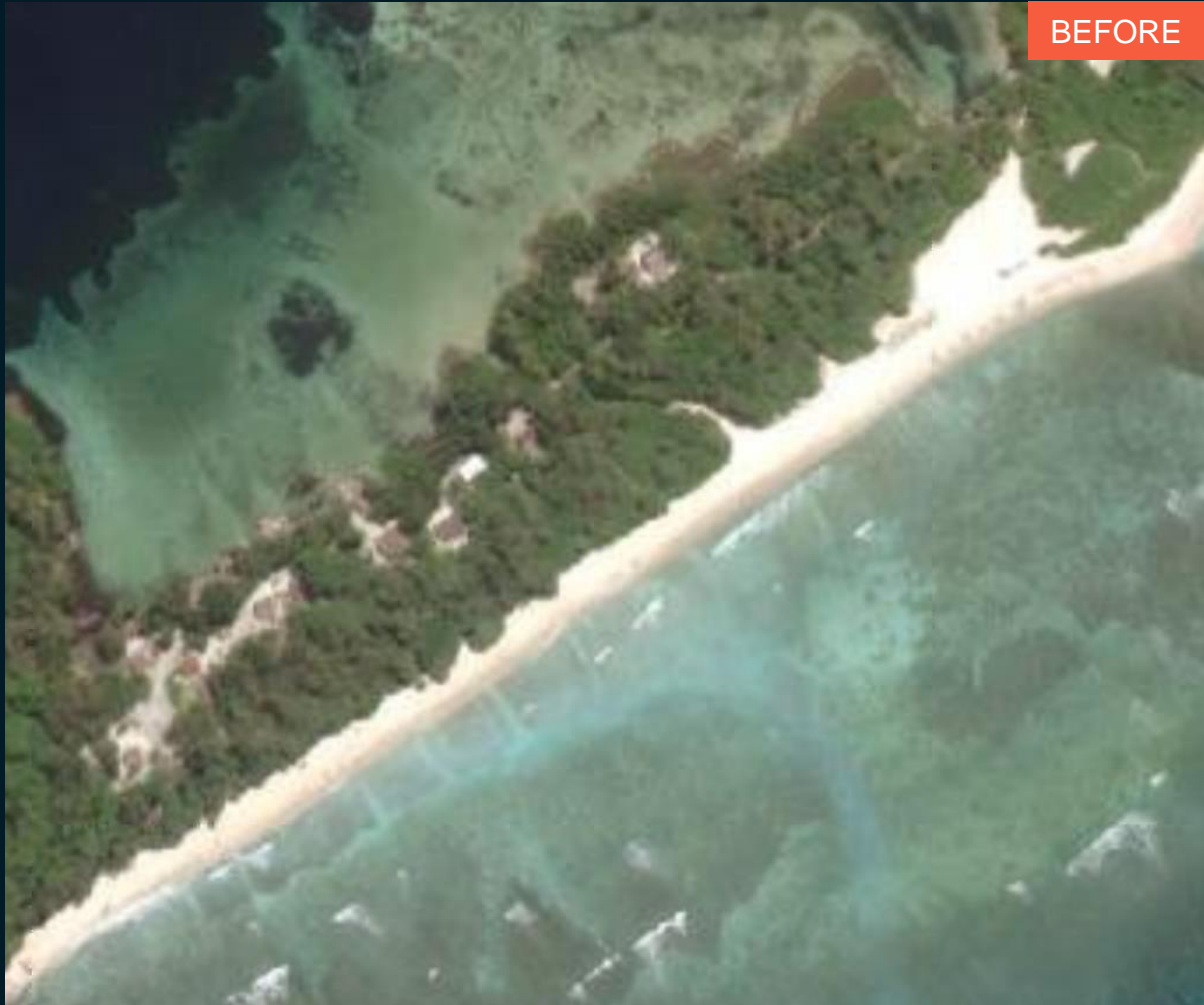


AOI 1-1: TIKOPIA ISLAND, TEMOTU VATU, TEMOTU

Image center:
168°50'13"E
12°18'5"S



Affected agricultural area in southern part of the island



WorldView-3 / 1 April 2021



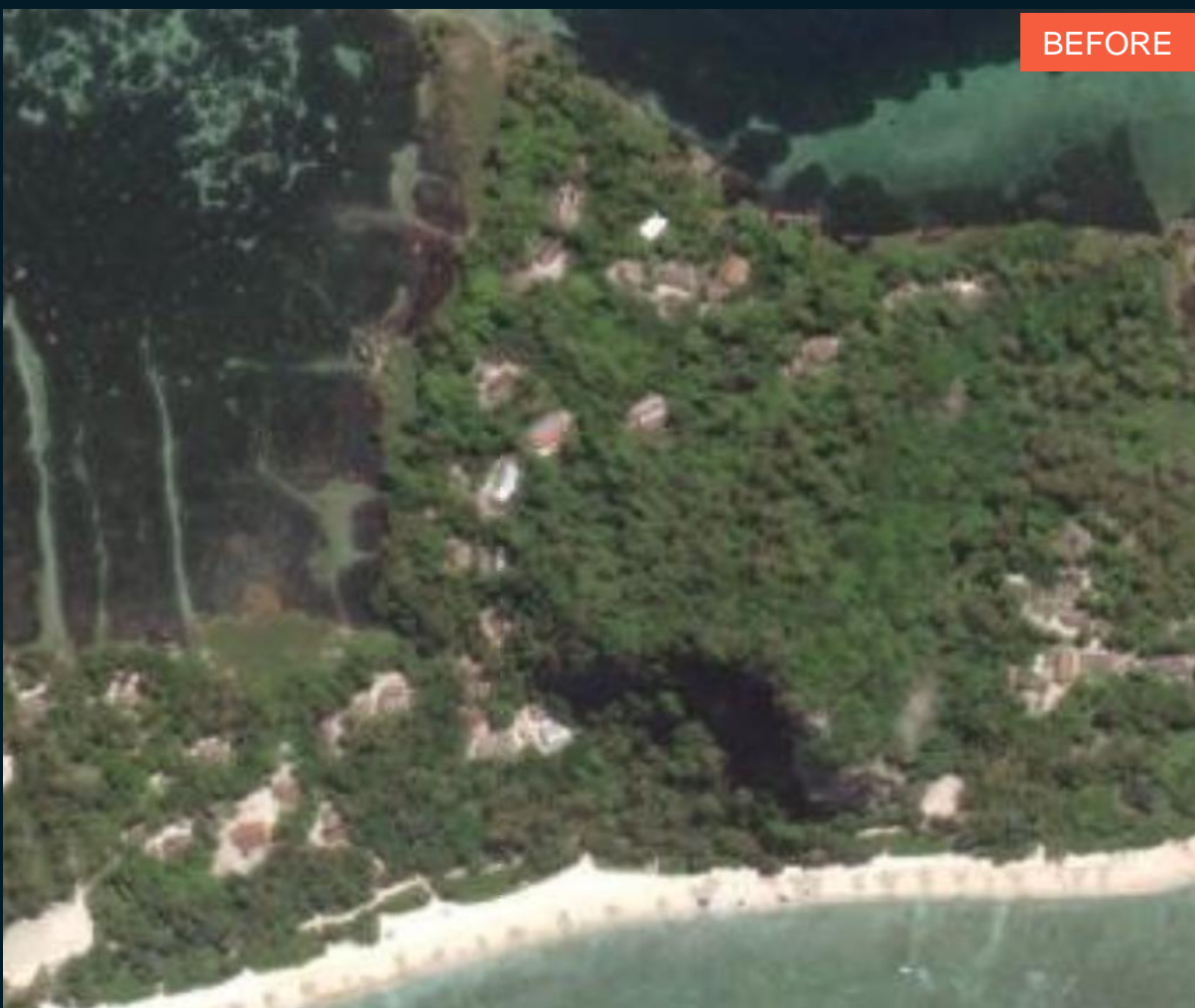
Pleiades / 26 October 2023 / 10:02 Local Time

AOI 1-2: TIKOPIA ISLAND, TEMOTU VATU, TEMOTU

Image center:
168°49'48"E
12°18'10"S



Affected agricultural area in southern part of the island



WorldView-3 / 1 April 2021

Pleiades / 26 October 2023 / 10:02 Local Time

AOI 1-3: TIKOPIA ISLAND, TEMOTU VATU, TEMOTU

Flooded agricultural area in western part of the island

Image center:
168°49'5"E
12°18'18"S



WorldView-3 / 1 April 2021



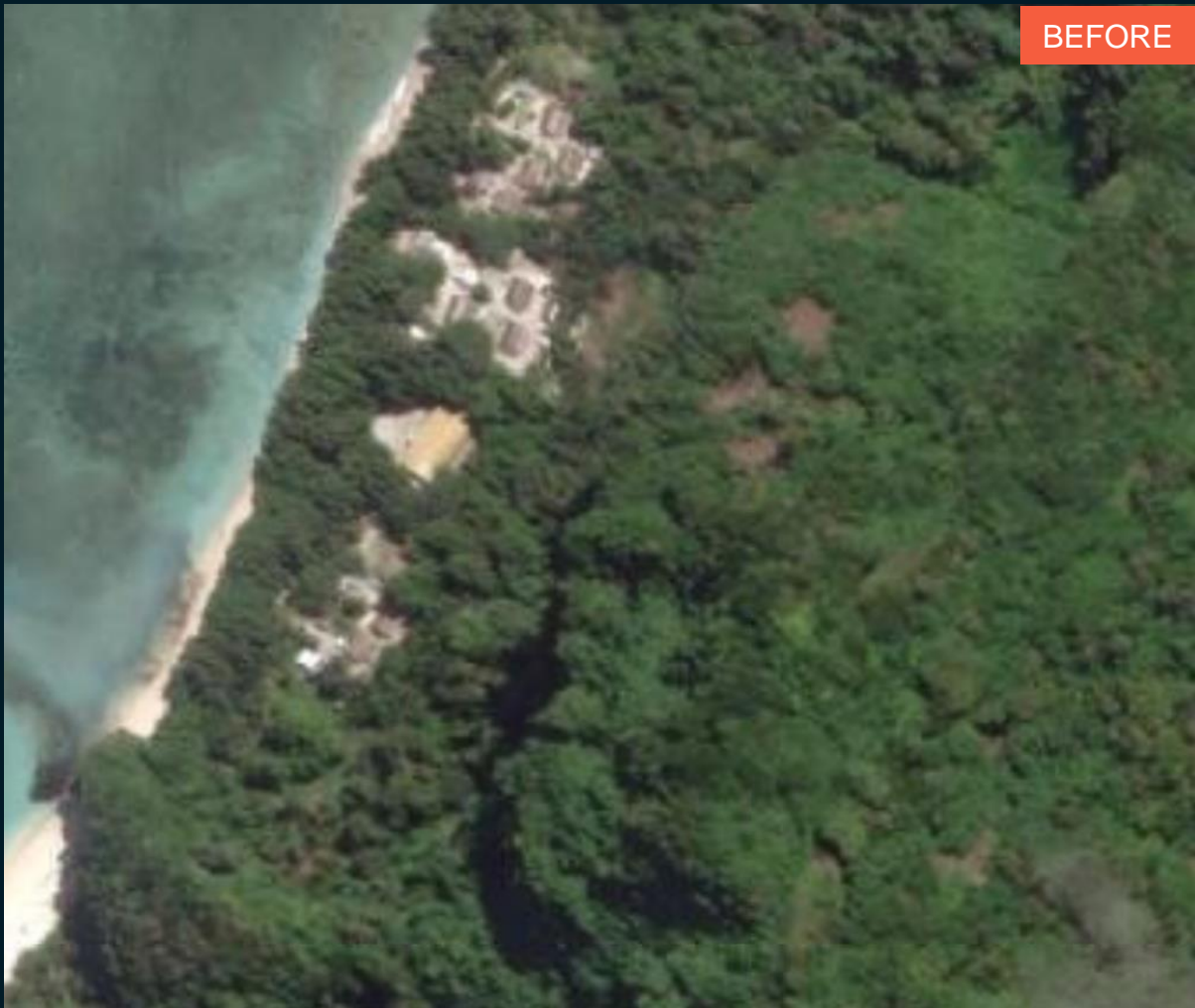
Pleiades / 26 October 2023 / 10:02 Local Time

AOI 1-4: TIKOPIA ISLAND, TEMOTU VATU, TEMOTU

Image center:
168°49'48"E
12°18'10"S



Affected agricultural area in northern part of the island



BEFORE



AFTER

Affected agriculture area



40 m.

WorldView-3 / 1 April 2021

Pleiades / 26 October 2023 / 10:02 Local Time

AOI 2-1 : NAUNONGA ISLAND, TEMOTU VATU, TEMOTU

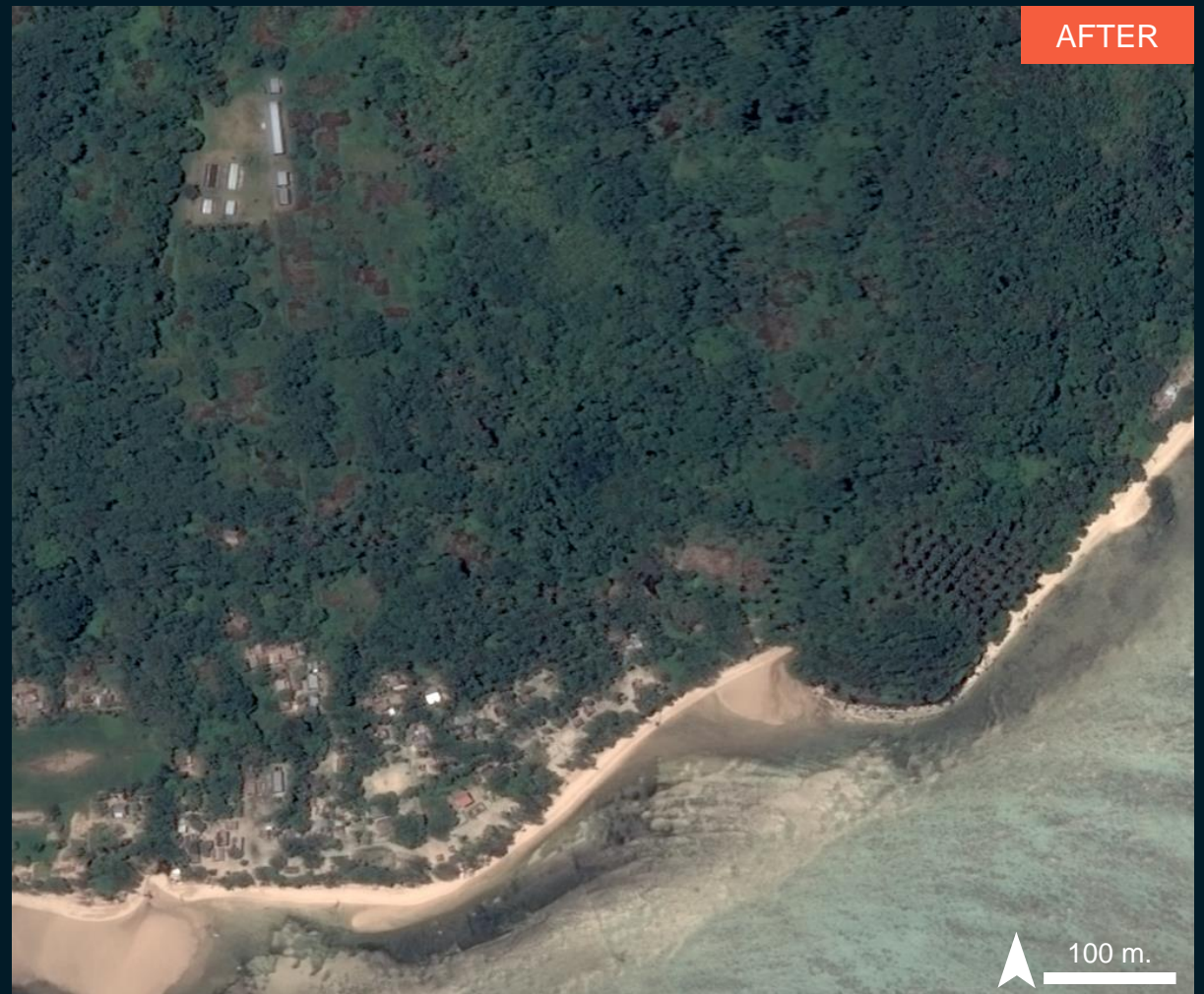
Image center:
166°58'30"E
11°42'24"S



No major affected agricultural area



WorldView-2 / 20 February 2021



Pleiades / 26 October 2023 / 10:02 Local Time

AOI 2-2 : NAUNONGA ISLAND, TEMOTU VATU, TEMOTU

Image center:
166°58'7"E
11°36'52"S

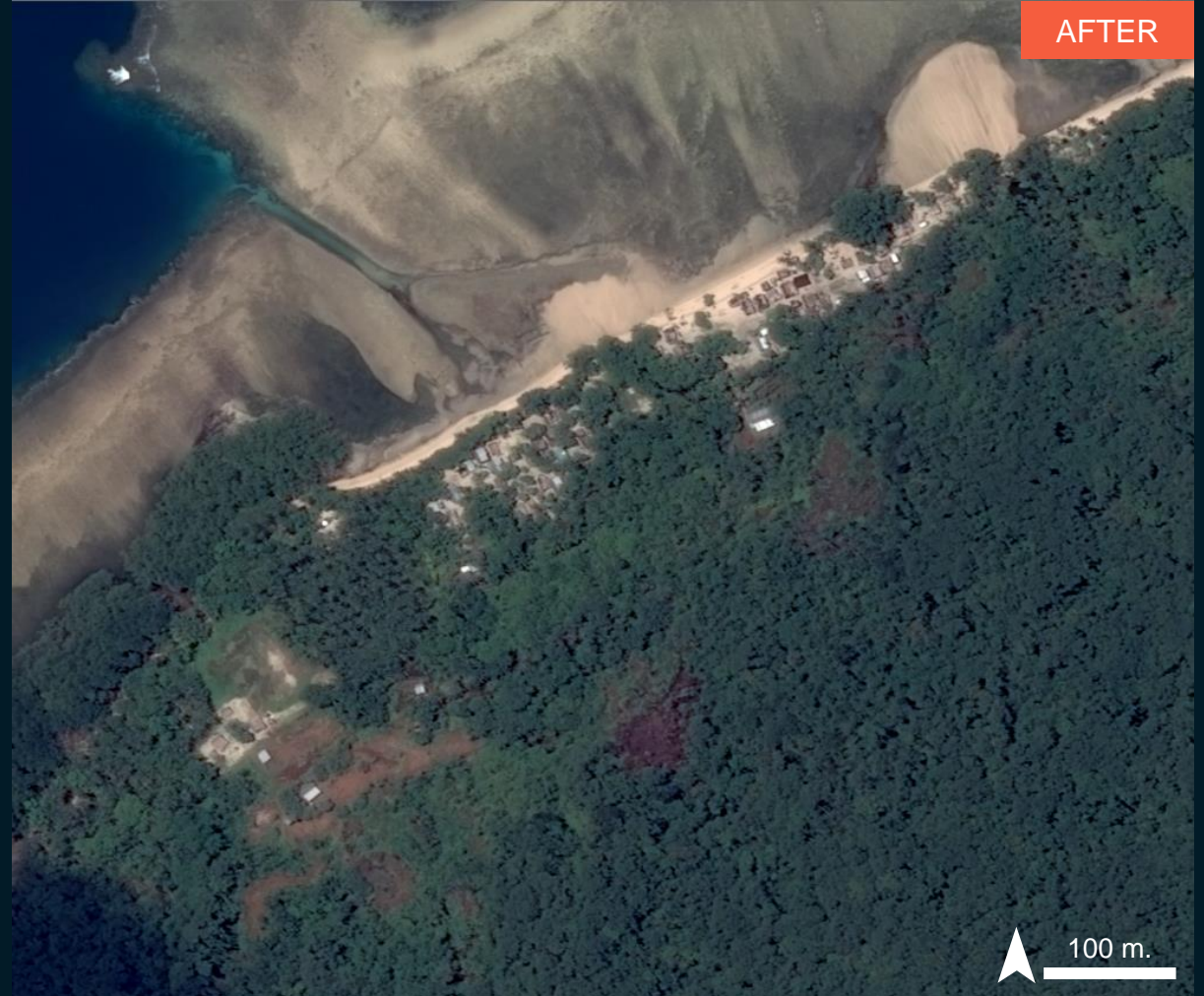


No major affected agricultural area

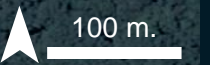


BEFORE

WorldView-2 / 10 December 2017



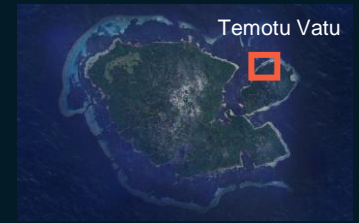
AFTER



Pleiades / 26 October 2023 / 10:02 Local Time

AOI 2-3 : NAUNONGA ISLAND, TEMOTU VATU, TEMOTU

Image center:
166°54'48"E
11°42'55"S



No major affected agricultural area



WorldView-2 / 20 February 2021



Pleiades / 26 October 2023 / 10:02 Local Time

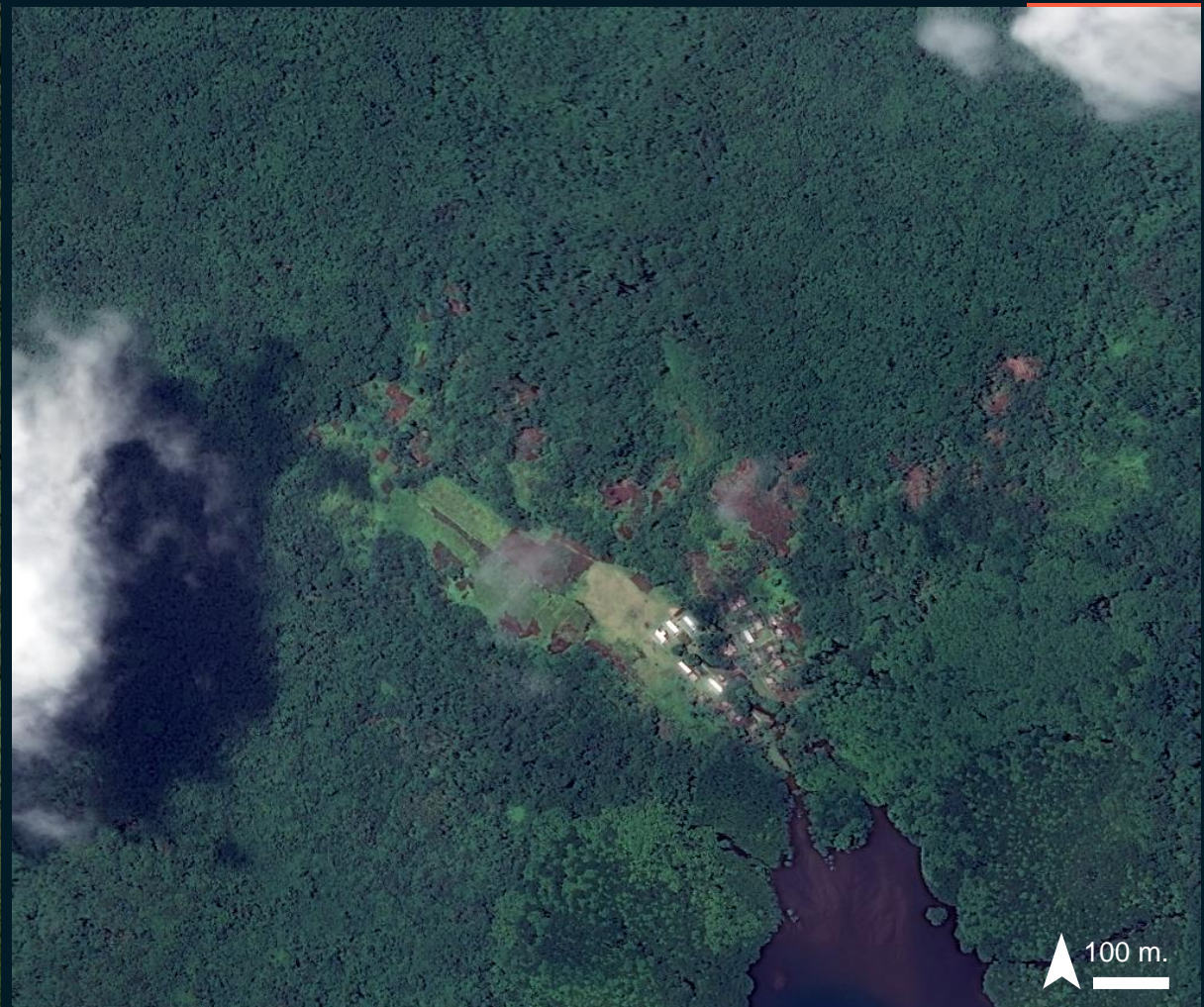
AOI 3-1: UTUPUA ISLAND, TEMOTU VATU, TEMOTU

No major affected agricultural area

Image center:
166°31'12"E
11°17'59"S



WorldView-2 / 22 May 2020



Pleiades / 26 October 2023 / 10:02 Local Time

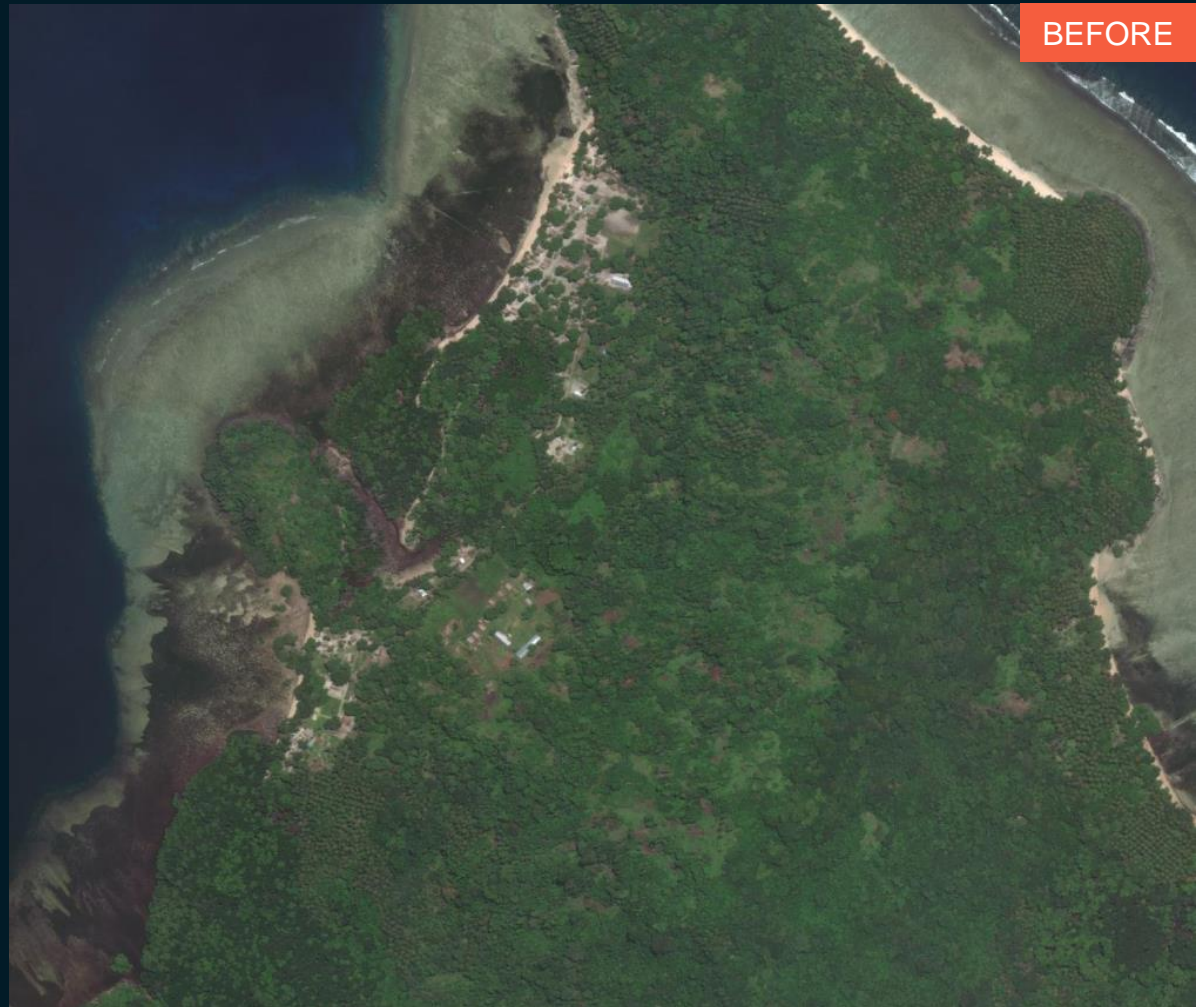


AOI 3-2: UTUPUA ISLAND, TEMOTU VATU, TEMOTU

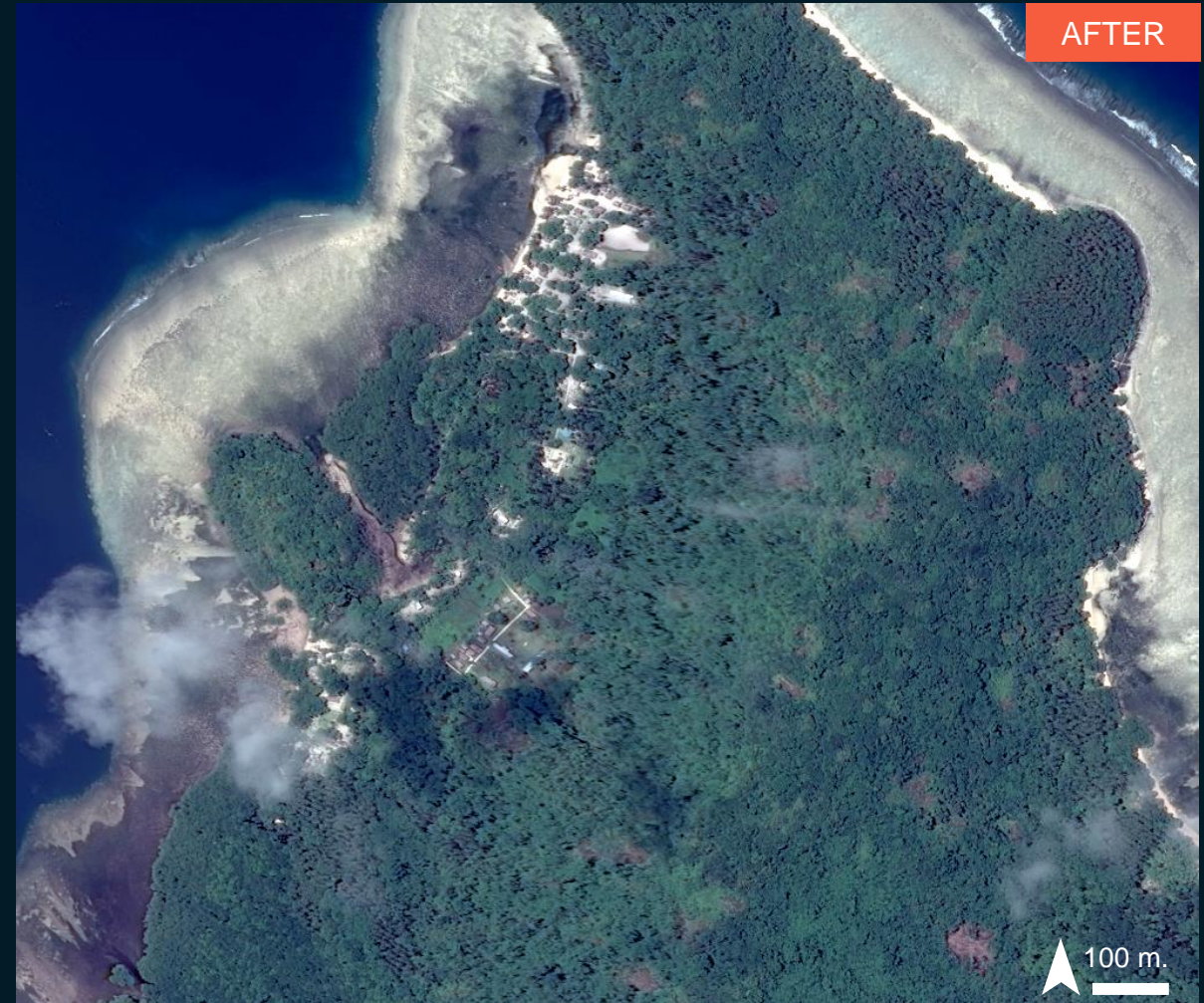
Image center:
166°31'22"E
11°13'1"S



No major affected agricultural area



WorldView-3 / 8 April 2021

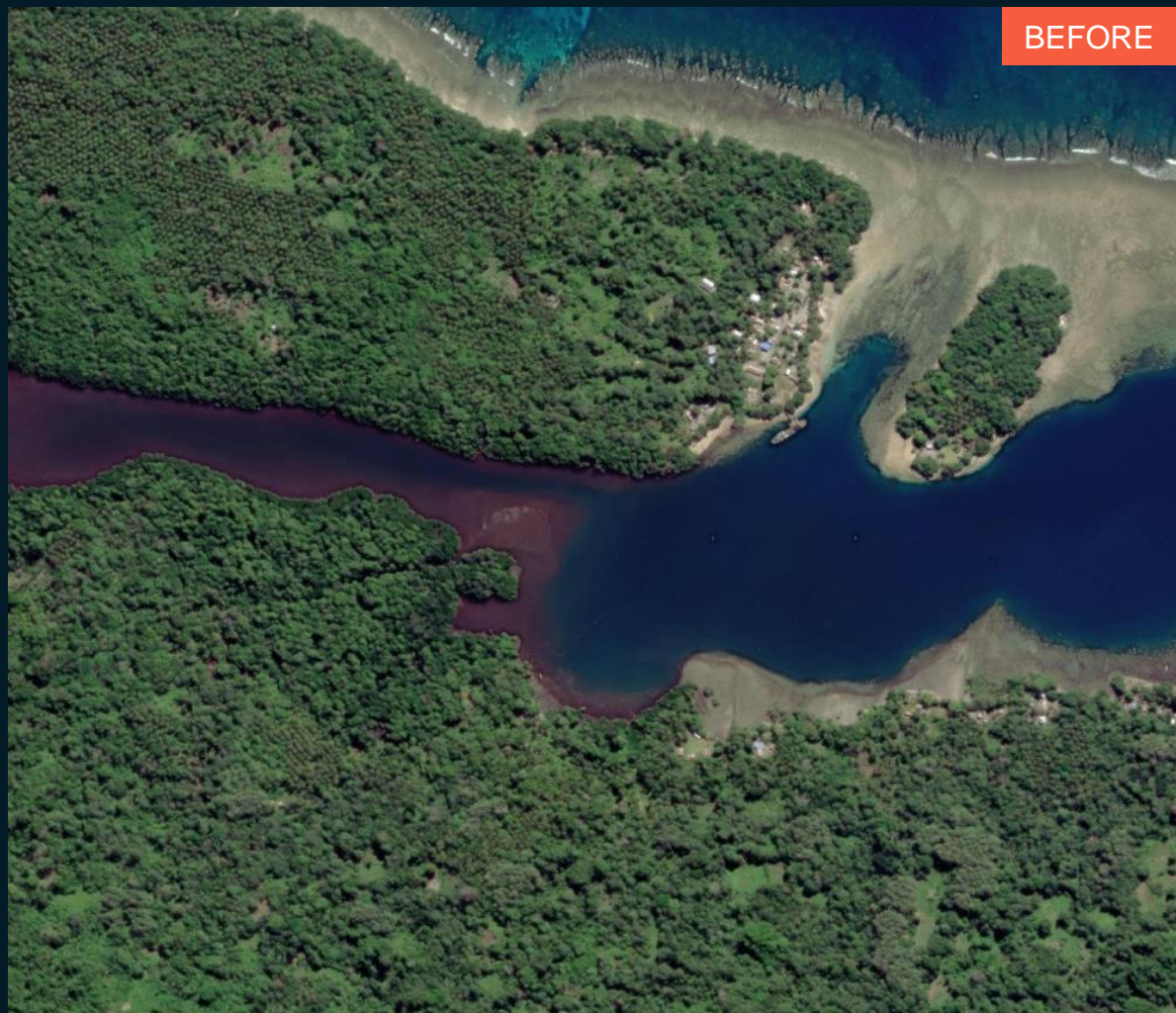
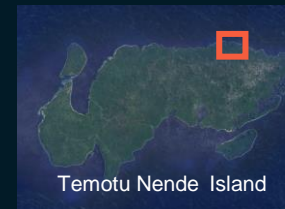


Pleiades / 26 October 2023 / 10:02 Local Time

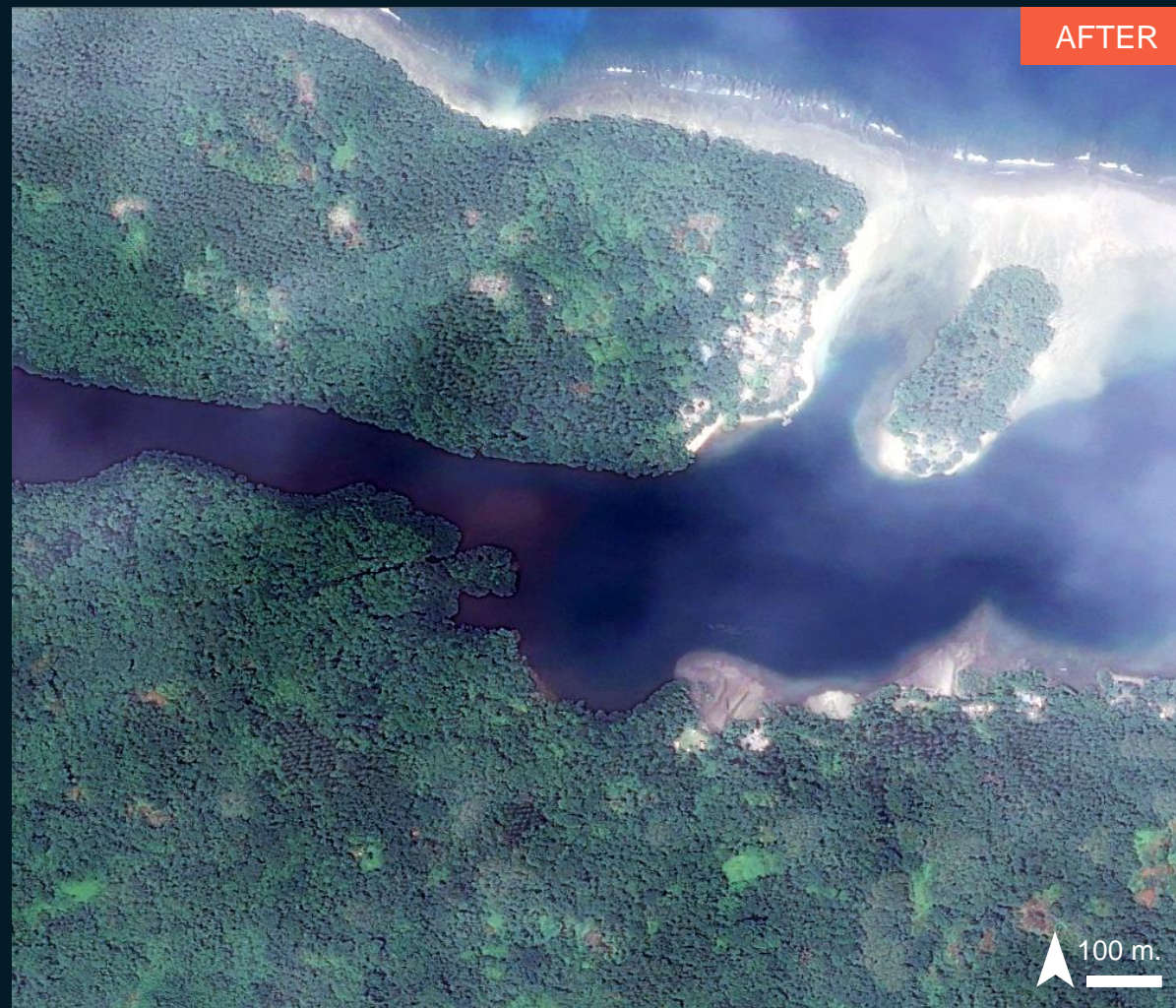
AOI 4-1: TEMOTU-NENDE ISLAND, TEMOTU VATU, TEMOTU

No major affected agricultural area

Image center:
166°3'28"E
10°39'26"S



WorldView-2 / 5 August 2021

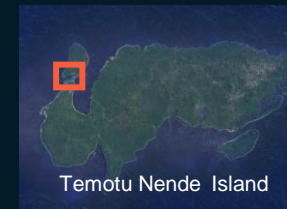


Pleiades / 25 October 2023 / 10:10 Local Time

AOI 4-2: TEMOTU-NENDE ISLAND, TEMOTU VATU, TEMOTU

No major affected agricultural area

Image center:
165°47'50"E
10°42'54"S



WorldView-2 / 28 November 2021



Pleiades / 25 October 2023 / 10:10 Local Time

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Data sources:

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

Imagery date: 25 and 26 October 2023

Resolution: 50cm

Copyright: Includes Pleiades material © AIRBUS DS (2023)

Source: Airbus D&S

(2) Satellite Image (Pre-event): ESRI Basemap

(3) Ancillary data

Populated place: OpenStreetMap

Administrative boundaries: HDX, UNOCHA

Analysis: UNITAR-UNOSAT

Production: UNITAR-UNOSAT

SUMMARY OF FINDINGS

- Affected agricultural area observed in southern and northern part of Tikopia Island as of 26 October 2023;
- Flooded agricultural area observed in western part of Tikopia Island as of 26 October 2023;
- No major affected agricultural area observed in Naunonga Island, Utupua Island and Temotu-Nende Islands as of 26 October 2023;

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