



24 January 2024

PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT



Ailinglaplap Atoll and Arno Atoll, Republic of the Marshall Islands

 Status: Potentially affected shoreline and airport detected

 Further action(s): continue monitoring



Republic of the Marshall Islands



AOI 1 – 1: Woja airport, Ailinglaplap Atoll, The Marshall Islands

Potentially affected shoreline and runway

Image center:
168°33'4"E
7°27'6"N



Esri Basemap / WorldView-2 / 25 January 2022

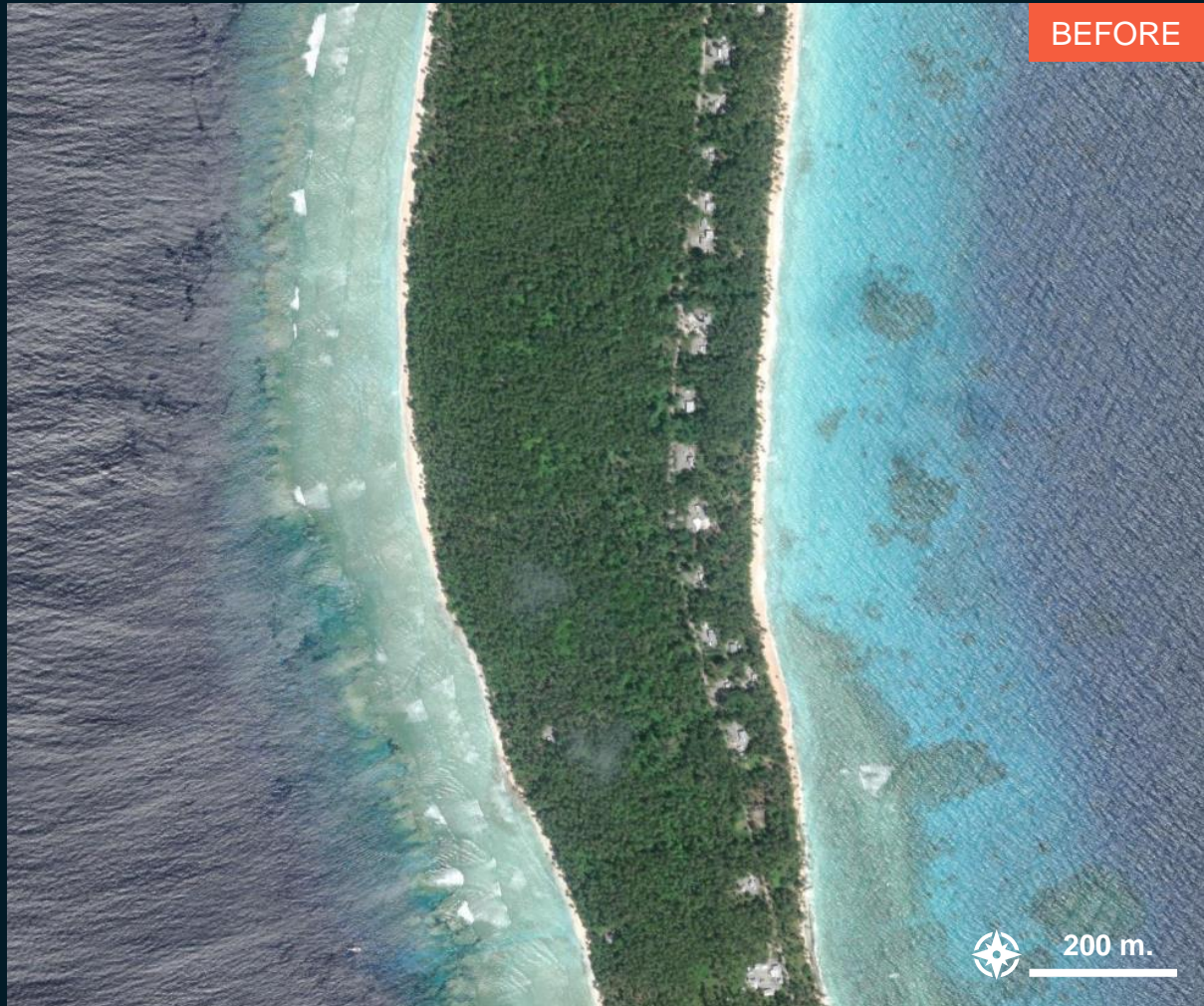


Planet / 21 January 2024

AOI 1 – 2 : Ailinglaplap Atoll, The Marshall Islands

No major visible damage

Image center:
168°32'54"E
7°26'6"N



Esri Basemap / WorldView-2 / 25 January 2022

Planet / 21 January 2024

AOI 1 – 3 : Ailinglaplap Atoll, The Marshall Islands

No major visible damage

Image center:
168°41'42"E
7°17'50"N



Esri Basemap / WorldView-2 / 25 January 2022

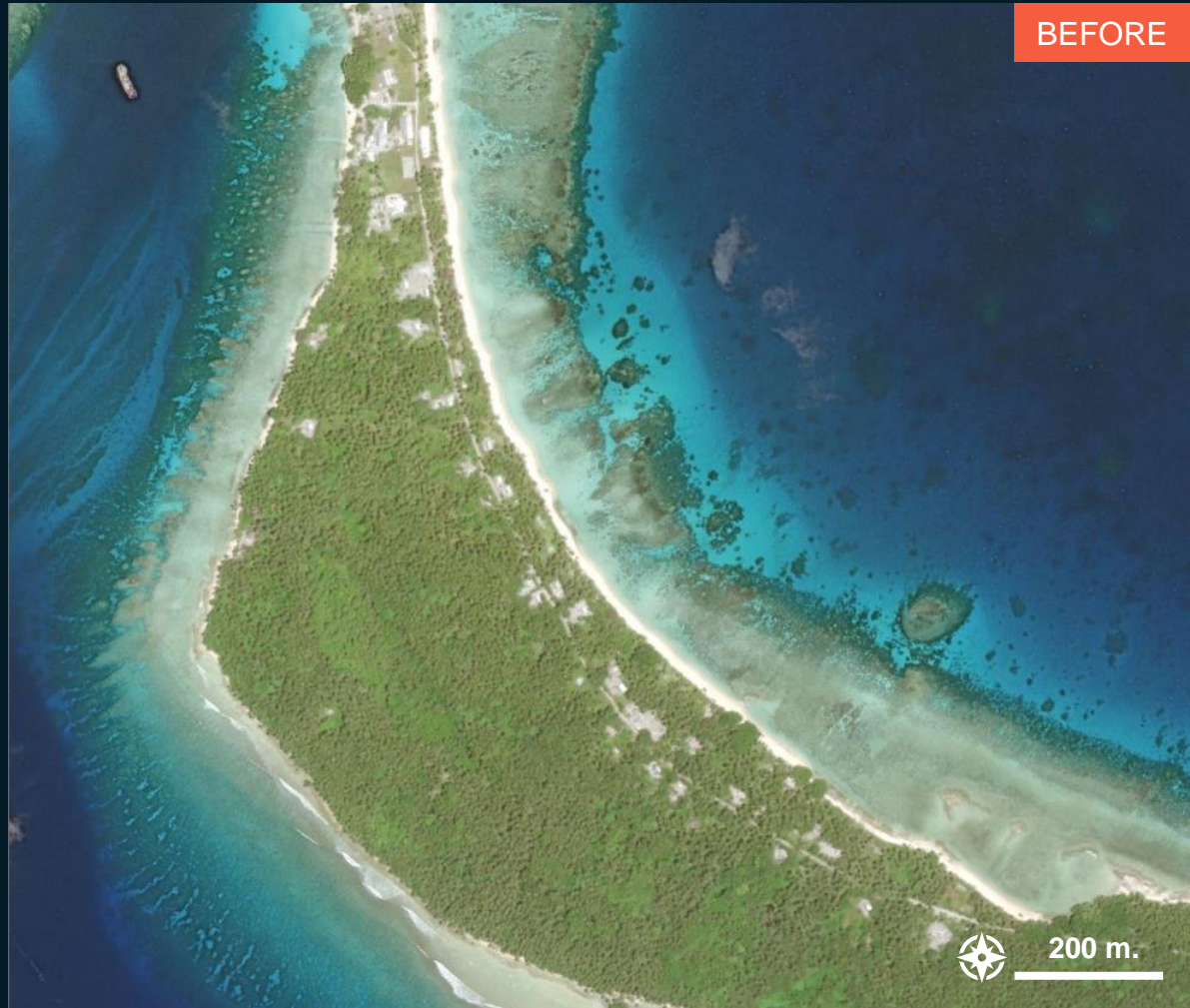


Planet / 21 January 2024

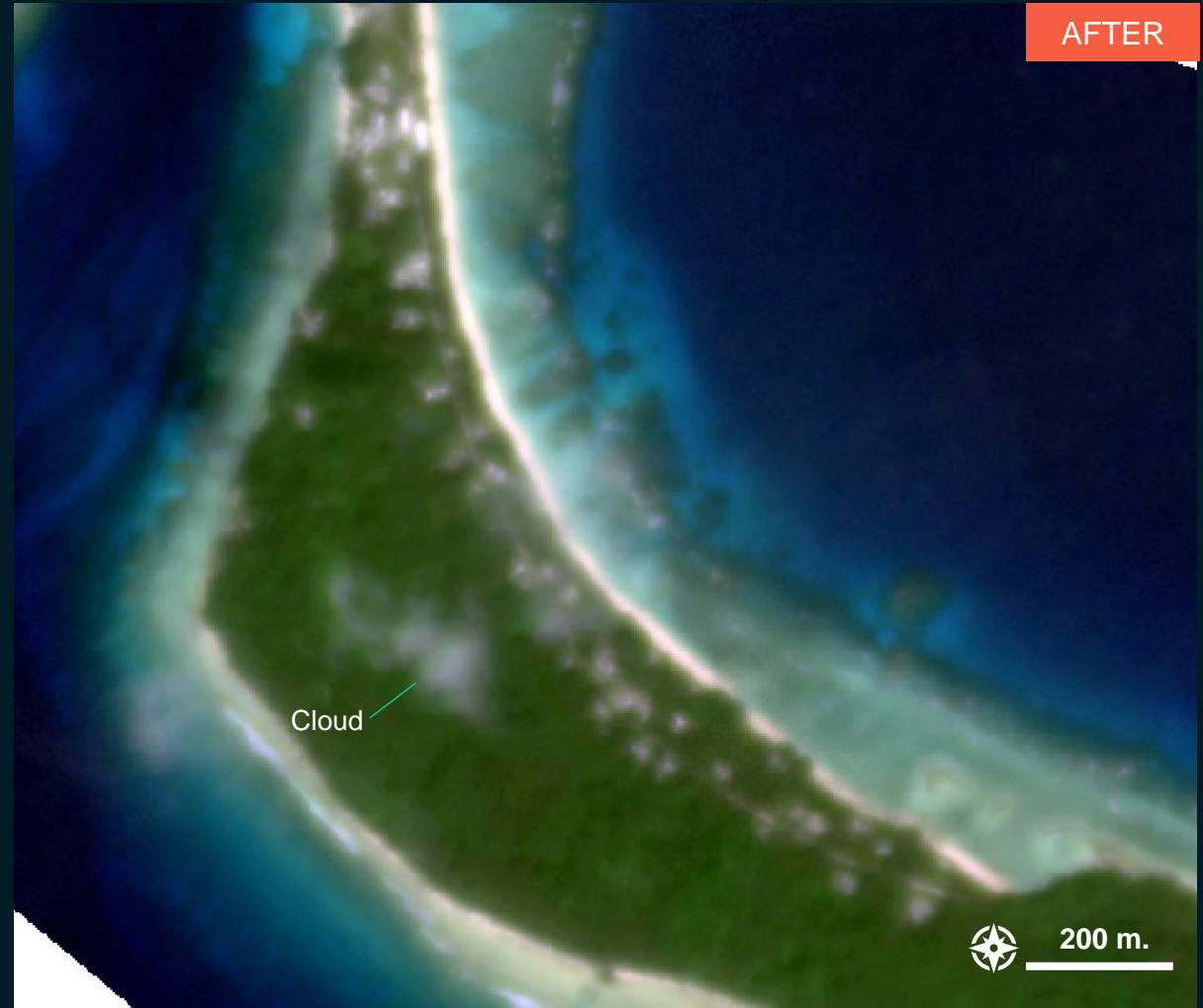
AOI 1 – 4 : Ailinglaplap Atoll, The Marshall Islands

No major visible damage

Image center:
168°45'3"E
7°17'7"N



Esri Basemap / WorldView-2 / 25 January 2022

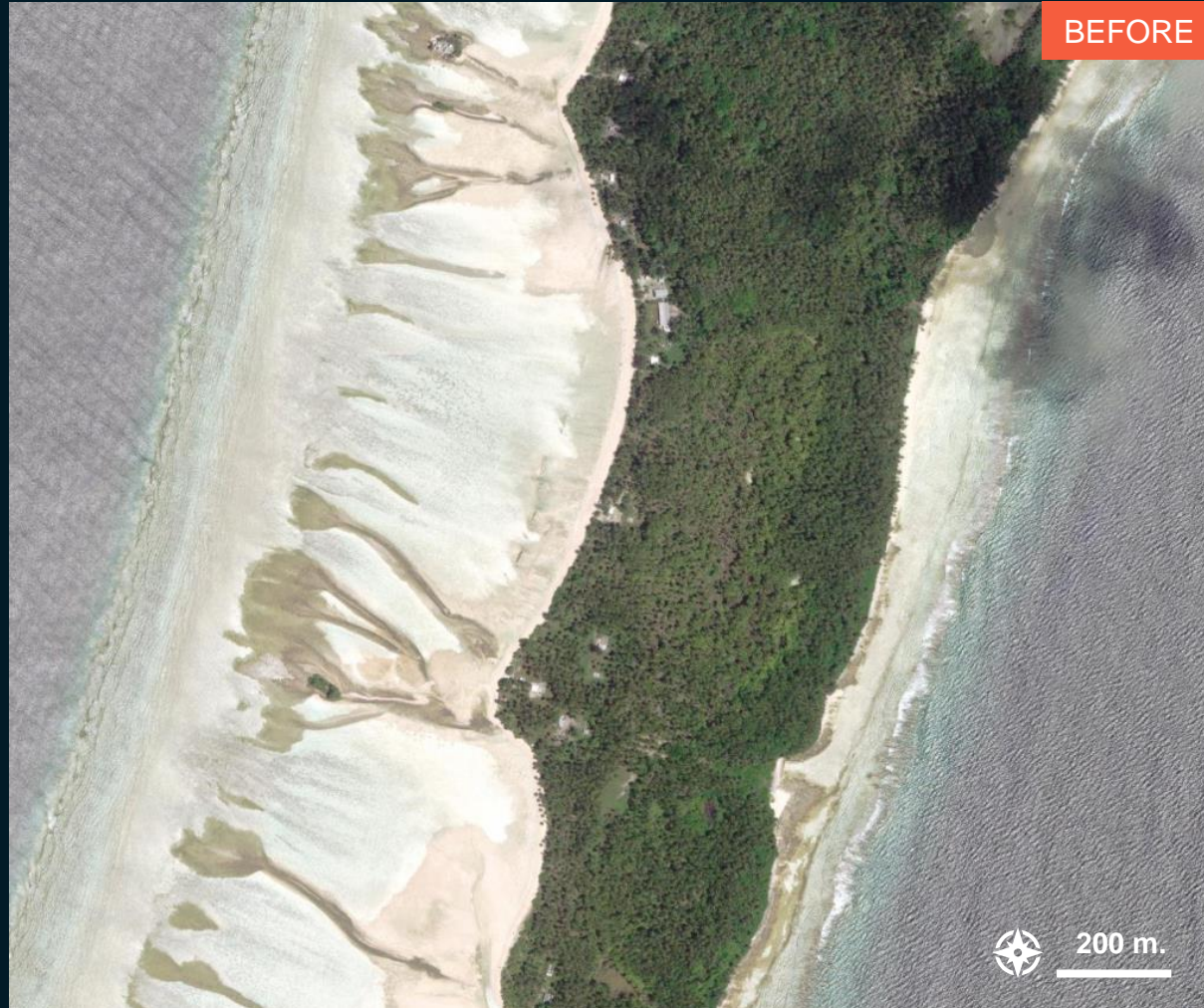


Planet / 21 January 2024

AOI 2 – 1 : Arno Atoll, The Marshall Islands

No major visible damage

Image center
171°38'16"E
7°14'18"N



Esri Basemap / WorldView-3 / 15 September 2022

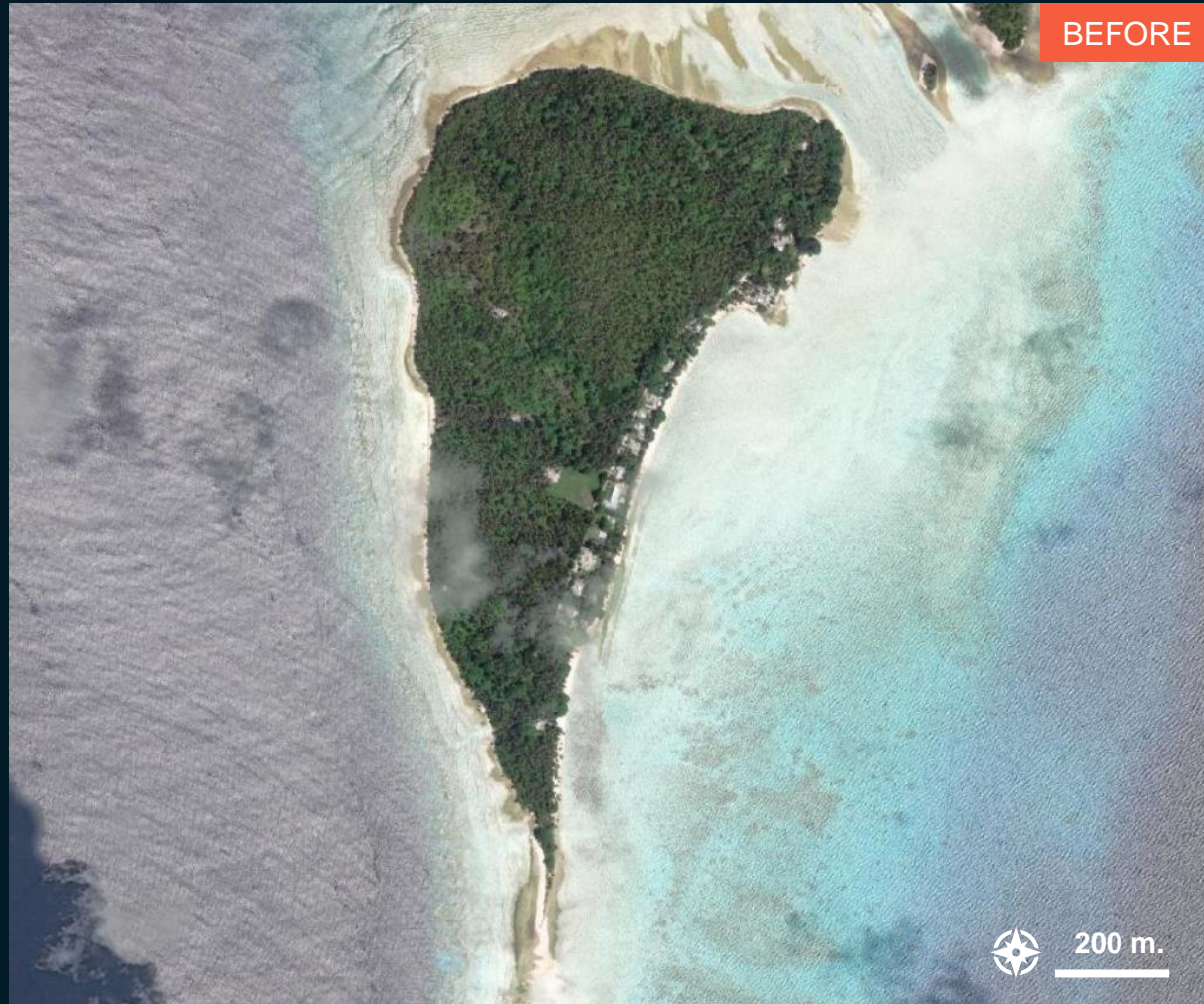


KANOPUS_V / 23 January 2024

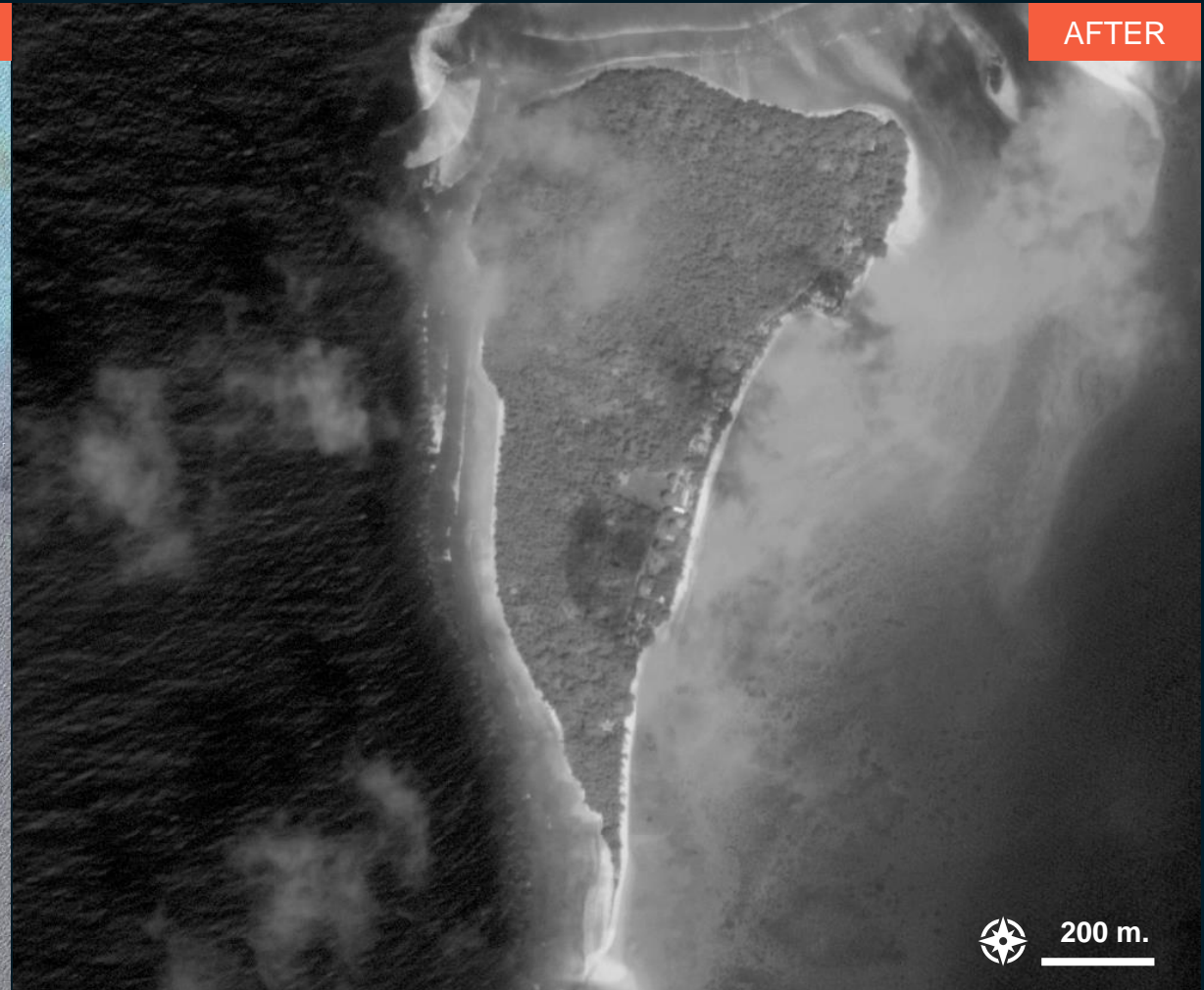
AOI 2 – 2 : Arno Atoll, The Marshall Islands

No major visible damage

Image center:
171°34'4"E
7°7'17"N



Esri Basemap / WorldView-3 / 15 September 2022

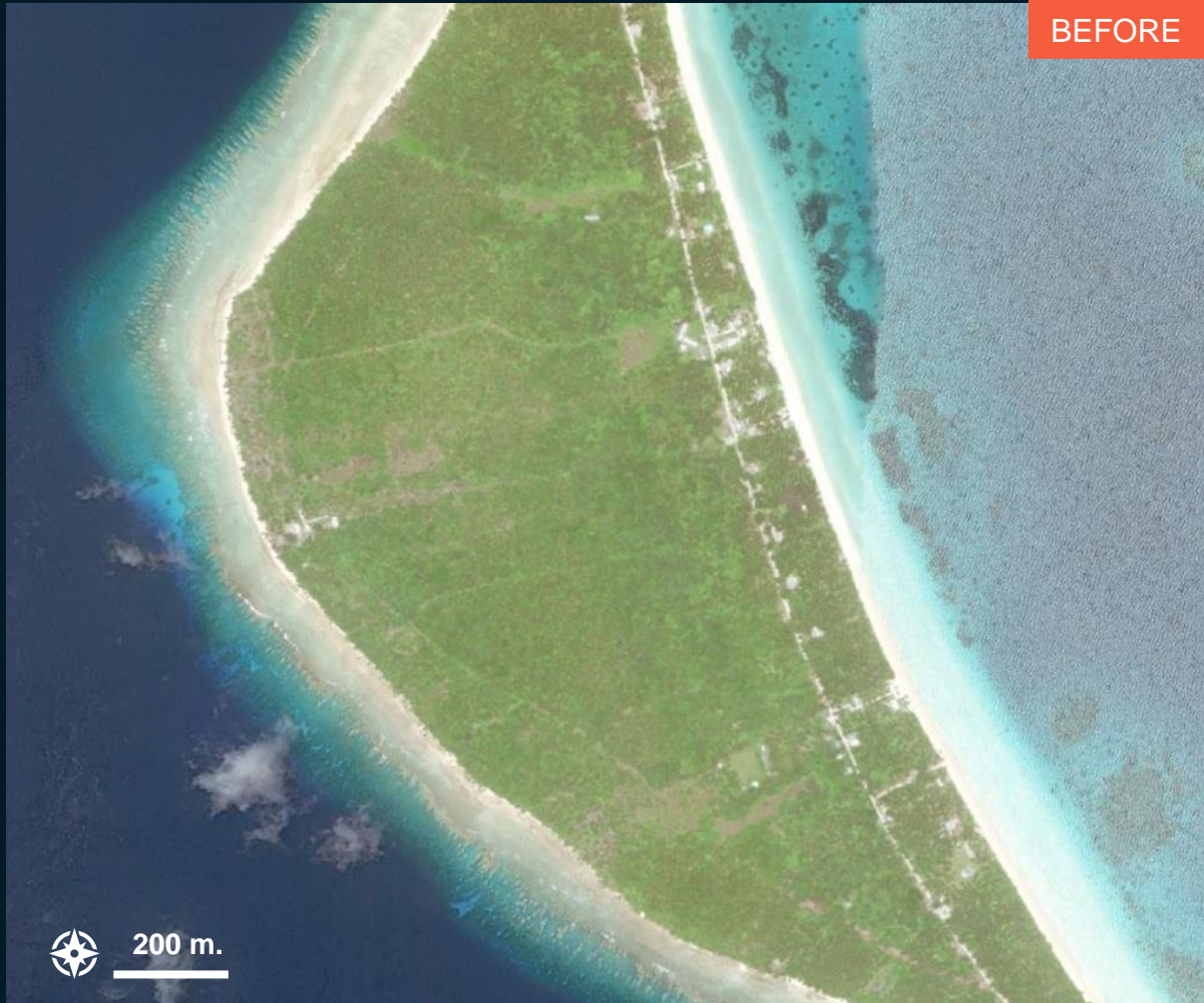


KANOPUS_V / 23 January 2024

AOI 2 – 3 : Arno Atoll, The Marshall Islands

No major visible damage

Image center:
171°33'8"E
7°3'48"N



Esri Basemap / WorldView-3 / 15 September 2022

KANOPUS_V / 23 January 2024

AOI 2 – 4 : Arno Atoll, The Marshall Islands

No major visible damage

Image center:
171°41'58"E
6°58'57"N



Esri Basemap / WorldView-3 / 15 September 2022



KANOPUS_V / 23 January 2024

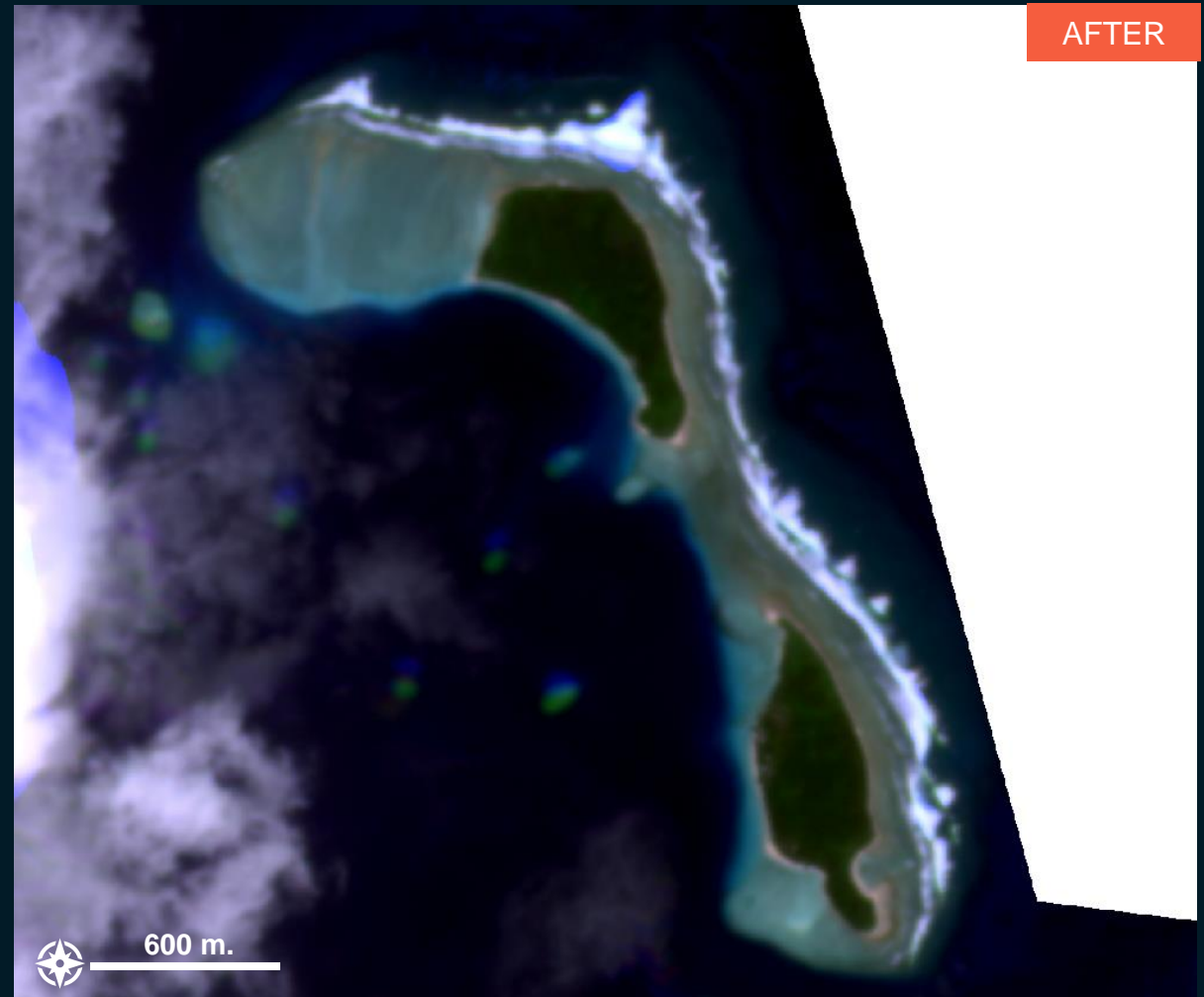
AOI 2 – 3 : Arno Atoll, The Marshall Islands

No major visible damage

Image center:
171°41'38"E
7°6'1"N



Esri Basemap / WorldView-3 / 15 September 2022



Planet / 21 January 2024

SUMMARY OF FINDINGS

Ailinglaplap Atoll

- Potentially affected shoreline close to the Woja airport detected as of 21 January 2024

Arno Atoll

- No evidence of major damage could be observed from high resolution satellite images acquired on 23 January 2024

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Data sources:

(1) Satellite Image (Post-event): PlanetScope
Acquisition date : 21 January 2024
Resolution: 3 m
Copyright: © Planet Labs Inc. (2024)
Source: Planet

(2) Satellite Image (Post-event): KANOPUS_V
Acquisition date : 23 January 2024
Resolution: 1 m
Copyright: © NTs OMZ, All Rights Reserved
Source: ROSCOSMOS

(3) Satellite Image (Pre-event): WorldView2 and 3
Acquisition date : 25 January 2022 and 15 September 2022
Resolution: 0.5 m
Copyright: © 2022 DigitalGlobe, Inc., Longmont CO USA 80503.
Source: ESRI Basemap

(4) Ancillary data

Administrative boundaries: Secretariat of the Pacific Community, Statistics for Development Division and OCHA Regional Office for Asia and the Pacific

Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)

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