


04 December 2024

PRELIMINARY SATELLITE- DERIVED FLOOD IMPACT ASSESSMENT



Jaffna District, Northern Province, Sri Lanka

 Status: Floods observed

 Further action(s): Continue monitoring



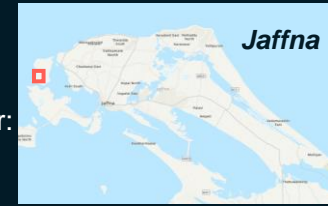
SRI LANKA



AOI 1 : VAARIVALAVU VILLAGE, JAFFNA DISTRICT, NORTHERN PROVINCE

Flooded agricultural area

Image center:
79°51'53"E
9°44'7"N



GeoEye-1 / 27 May 2022

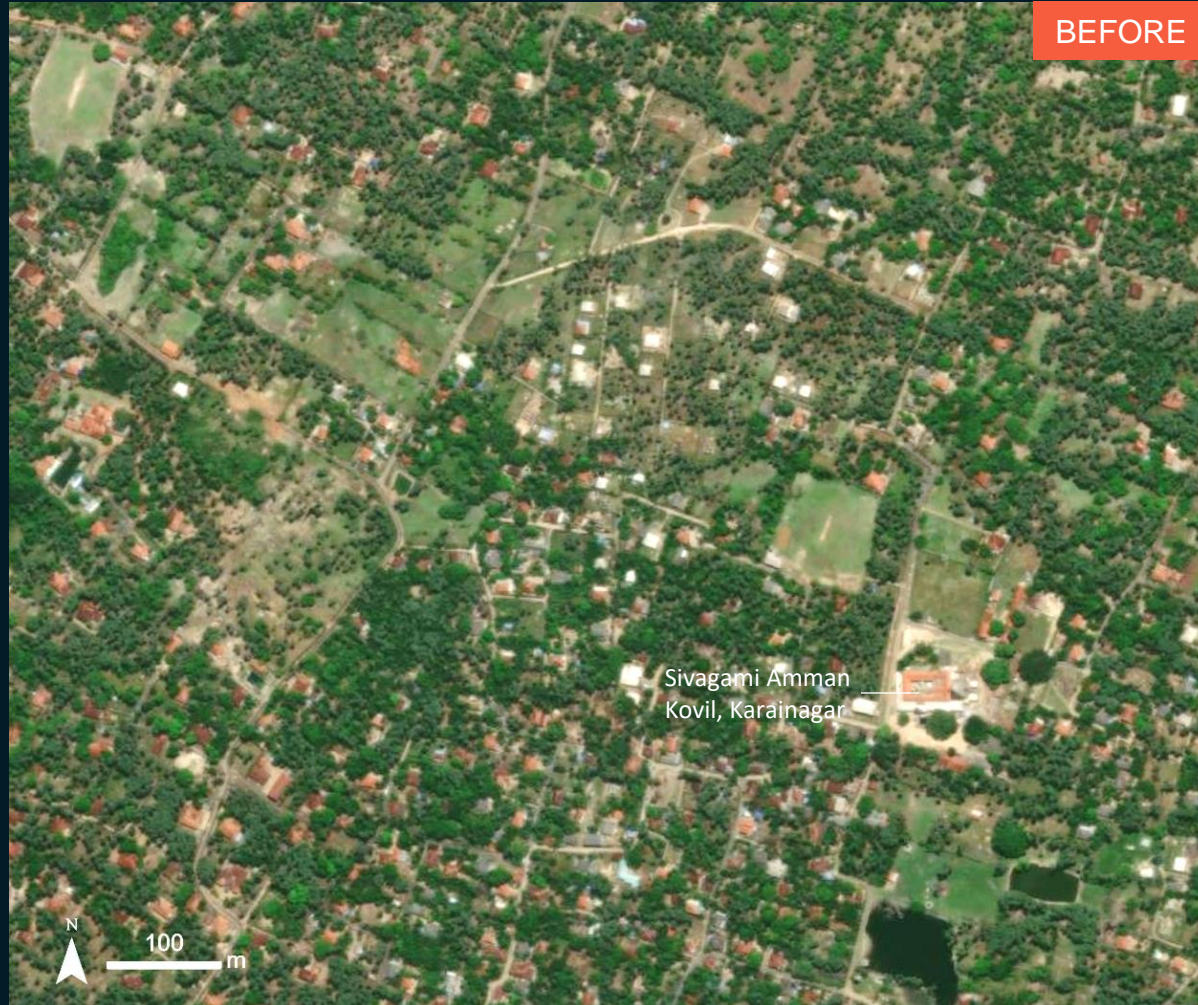


Pléiades / 3 December 2024

AOI 2 : JAFFNA DISTRICT, NORTHERN PROVINCE

Flooded structures

Image center:
79°52'19"E
9°45'4"N



BEFORE

Sivagami Amman
Kovil, Karainagar



AFTER

Flooded structures

Flooded structures

Flooded area

Sivagami Amman
Kovil, Karainagar

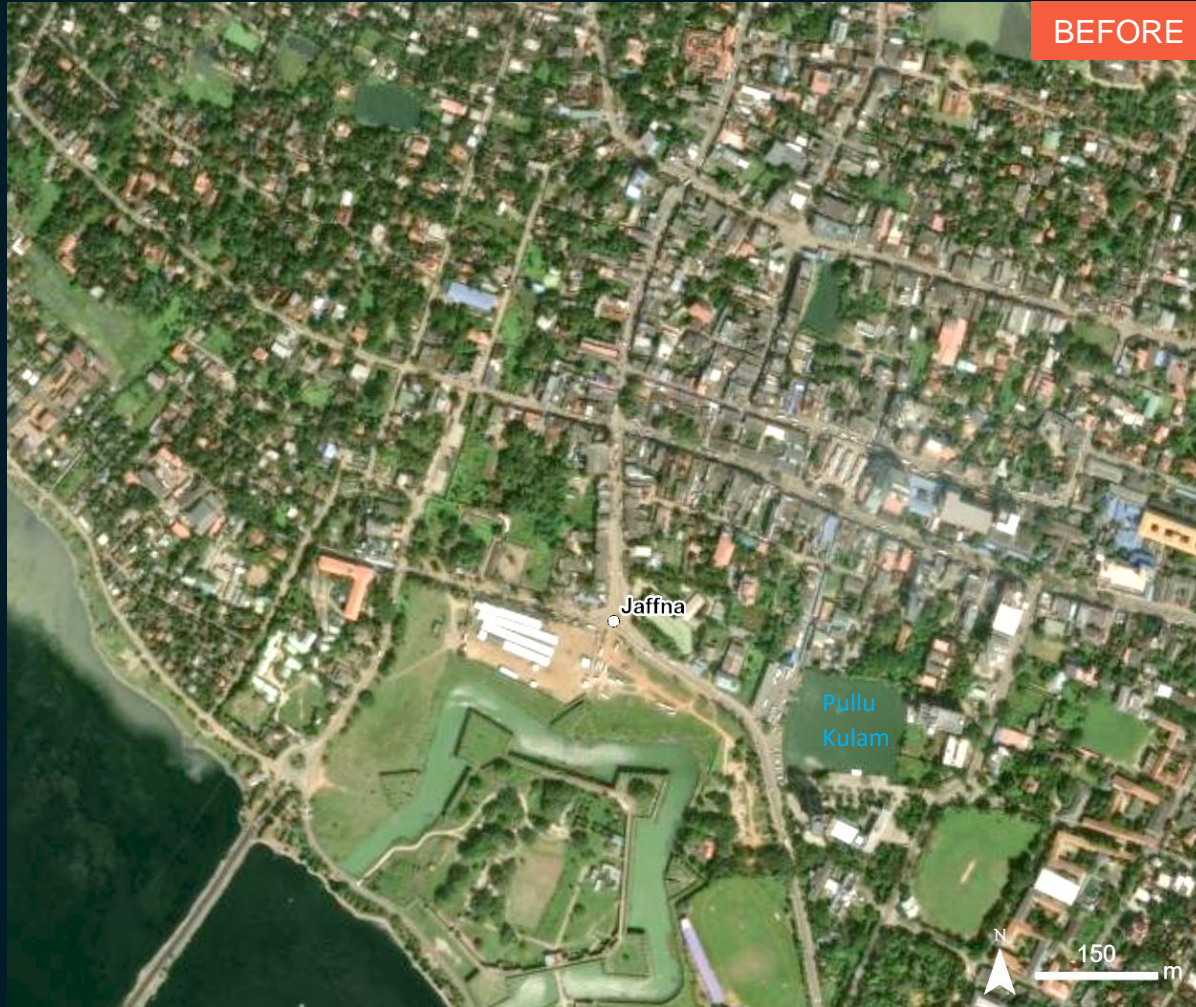
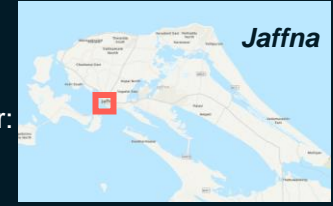
GeoEye-1/ 27 May 2022

Pléiades / 3 December 2024

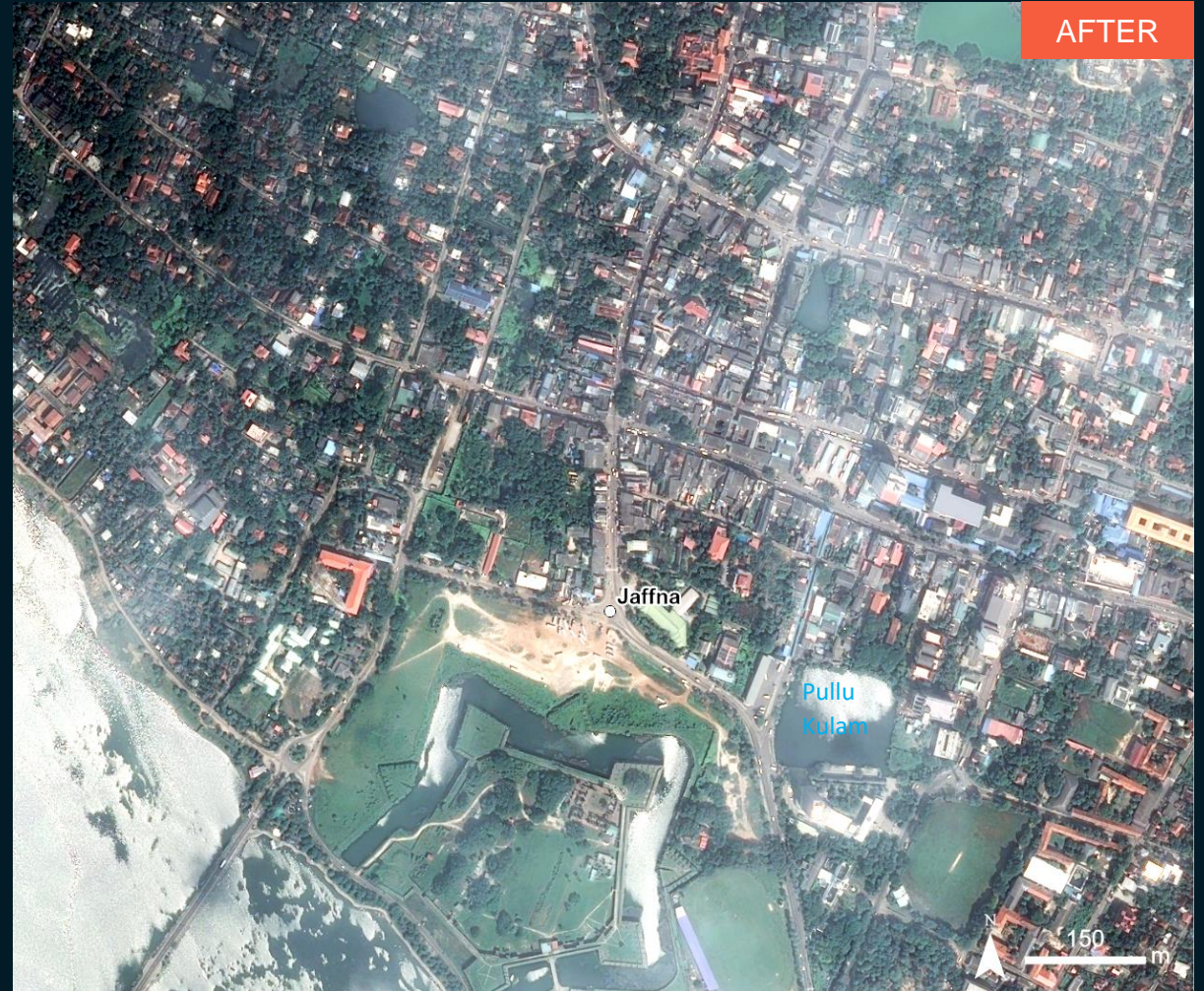
AOI 3 : JAFFNA CITY, JAFFNA DISTRICT, NORTHERN PROVINCE

No major flood observed

Image center:
80°0'34"E
9°39'56"N



WorldView-2/ 24 January 2024

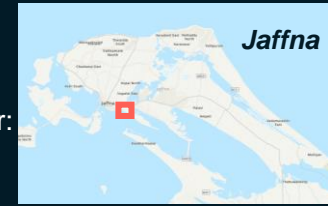


Pléiades / 3 December 2024

AOI 4 : COLUMBUTHURAI VILLAGE, JAFFNA DISTRICT, NORTHERN PROVINCE

Flooded agricultural area and structures

Image center:
80°3'4"E
9°39'14"N



WorldView-2/ 24 January 2024

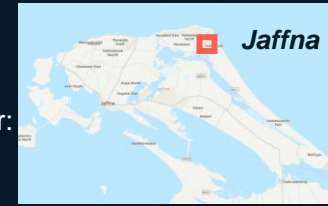


Pléiades / 3 December 2024

AOI 5 : VALLIPURAM VILLAGE, JAFFNA, NORTHERN PROVINCE

Flooded agricultural area and structures

Image center:
80°3'4"E
9°39'14"N



BEFORE



AFTER

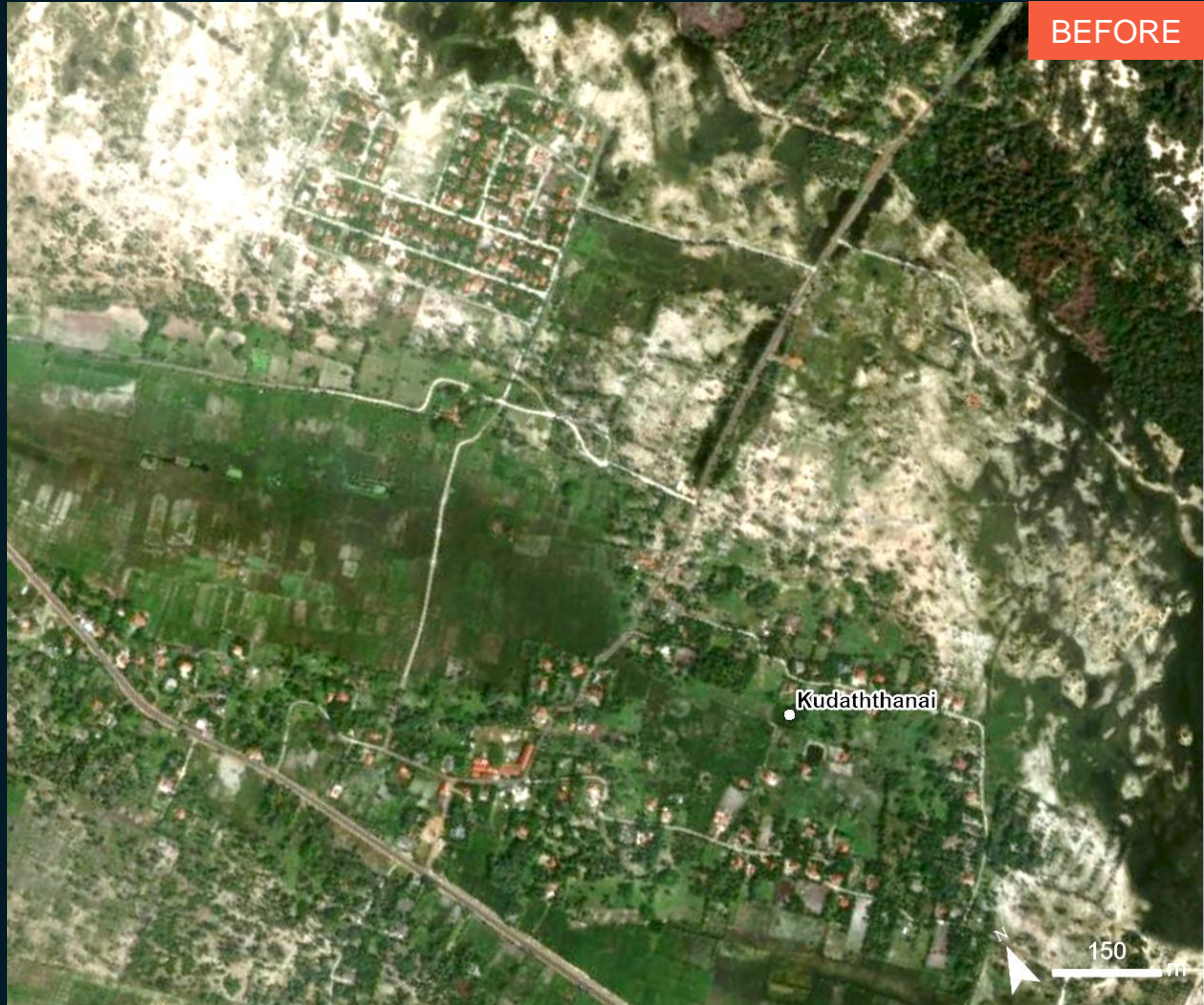
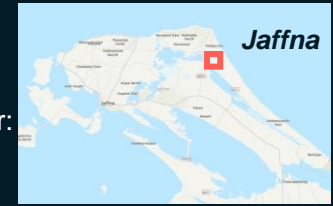
GeoEye-1/ 14 April 2019

Pléiades / 3 December 2024

AOI 6 : KUDATHTHANAI, JAFFNA DISTRICT, NORTHERN PROVINCE

Flooded agricultural area and structures

Image center:
80°15'20"E
9°45'42"N



BEFORE

GeoEye-1/ 10 January 2023



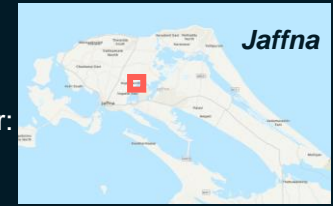
AFTER

Pléiades / 3 December 2024

AOI 7 : KOPAY BEACH, JAFFNA DISTRICT, NORTHERN PROVINCE

Increased water

Image center:
80°4'52"E
9°42'38"N



GeoEye-1/ 10 January 2023

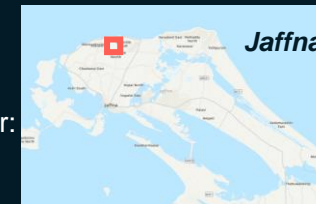


Pléiades / 4 December 2024

AOI 8 : JAFFNA DISTRICT, NORTHERN PROVINCE

No major flood observed

Image center:
80°4'15"E
9°47'33"N



GeoEye-1/ 10 January 2023



Pléiades / 4 December 2024

SUMMARY OF FINDINGS

- Widespread floodwaters have been observed in Jaffna District, Northern Province, as of 3 December 2024;
- Inundated agricultural areas have been reported in Jaffna District, Northern Province, as of 3 December 2024;
- Flooded structures and inundated roads have been observed in Jaffna District, Northern Province, as of 3 December 2024.

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Data sources:

(1) Satellite Imagery (Post) : Pléiades
Imagery Date: 03 and 04 December 2024

Resolution : 50 cm

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

Source: Airbus D&S

(2) Satellite Imagery (Pre) : GeoEye-1

Imagery Date: 19 May 2023, 10 January 2023

Resolution : 50 cm

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Source: ESRI Basemap

(3) Satellite Imagery (Pre) : WorldView-2

Imagery Date: 24 January 2024

Resolution : 50 cm

Copyright: © 2024 Maxar

Source: ESRI Basemap

(4) Ancillary data

Administrative boundaries: Survey Department of Sri Lanka,
contributed by UNOCHA (ROAP) via HDX

Populated place: OpenStreetMap

Waterway: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)



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