



7 June 2024

PRELIMINARY SATELLITE- DERIVED FLOOD IMPACT ASSESSMENT



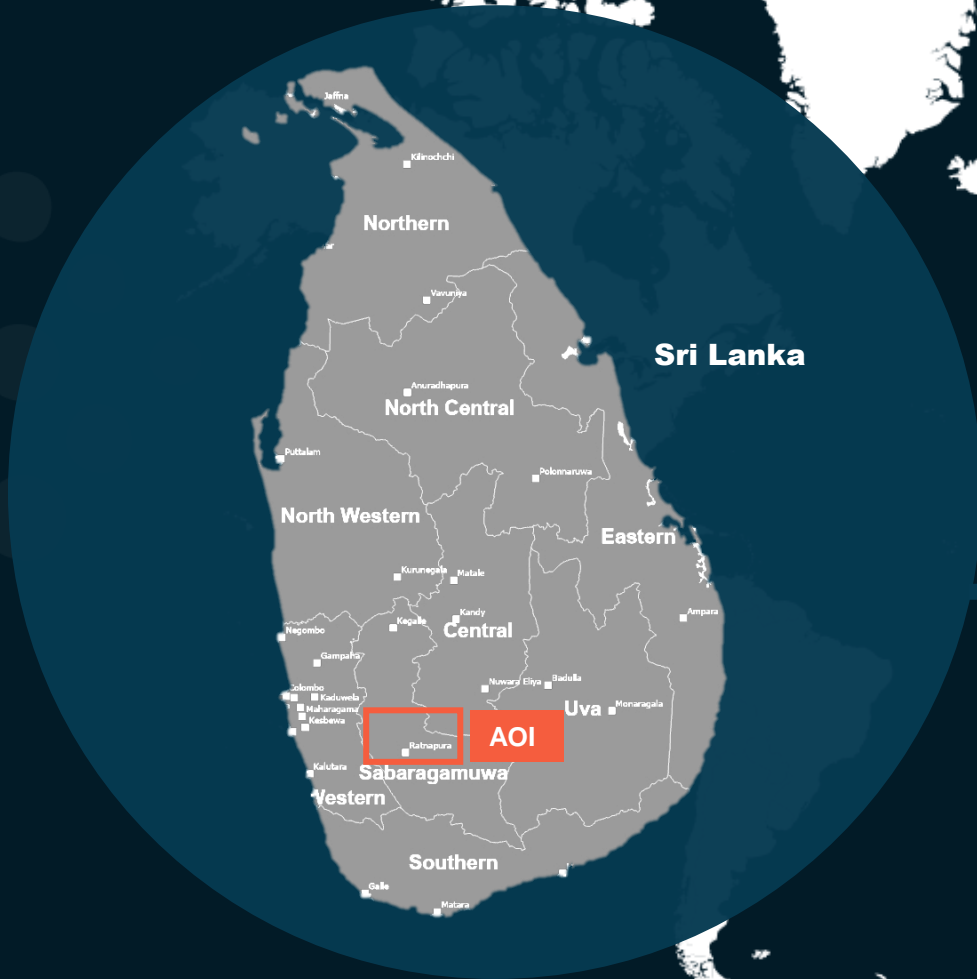
Ratnapura District, Sabaragamuwa Province, Sri Lanka

 Status: Inundated structures, inundated roads & agricultural areas observed

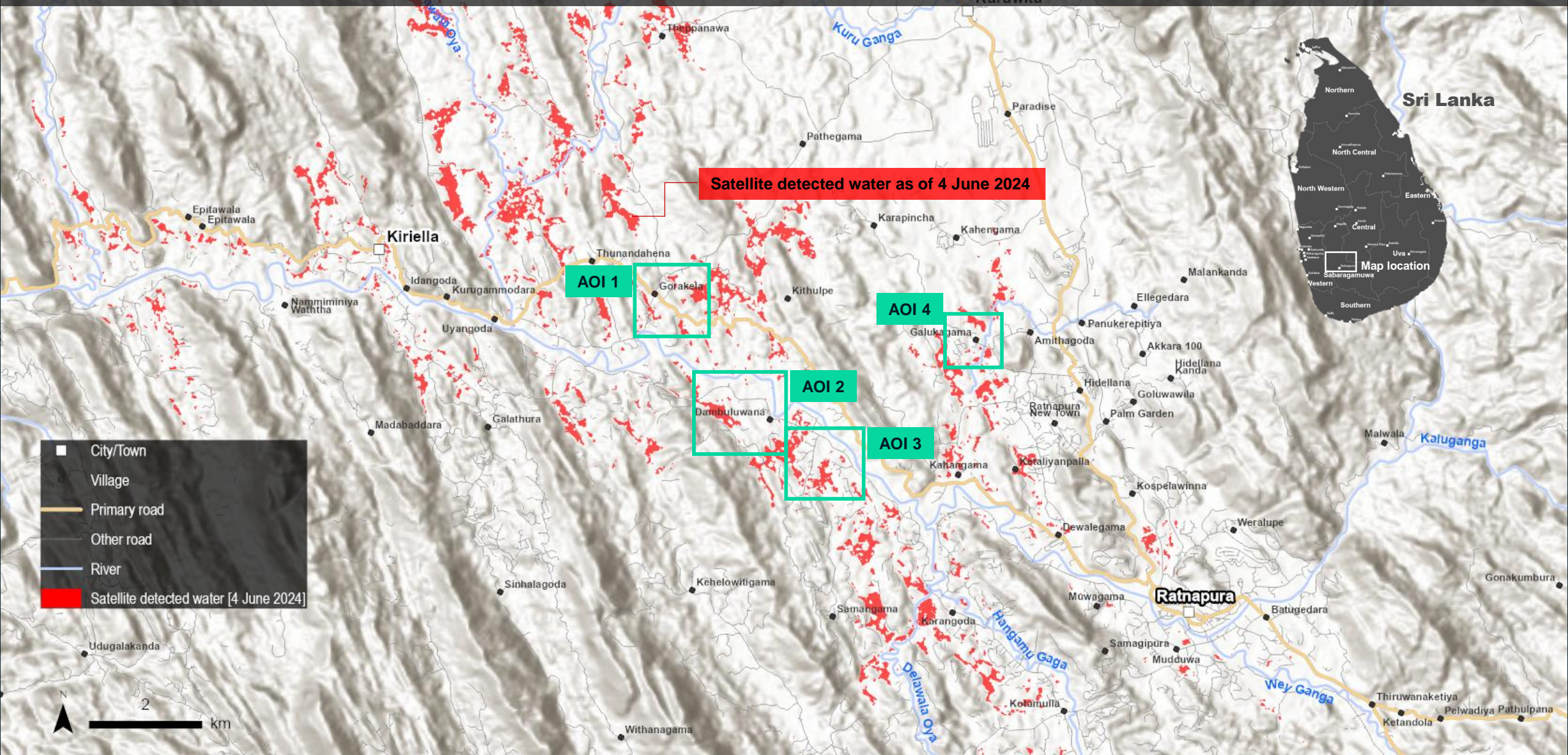
 Further action(s): continue monitoring

SRI LANKA

7 June 2024



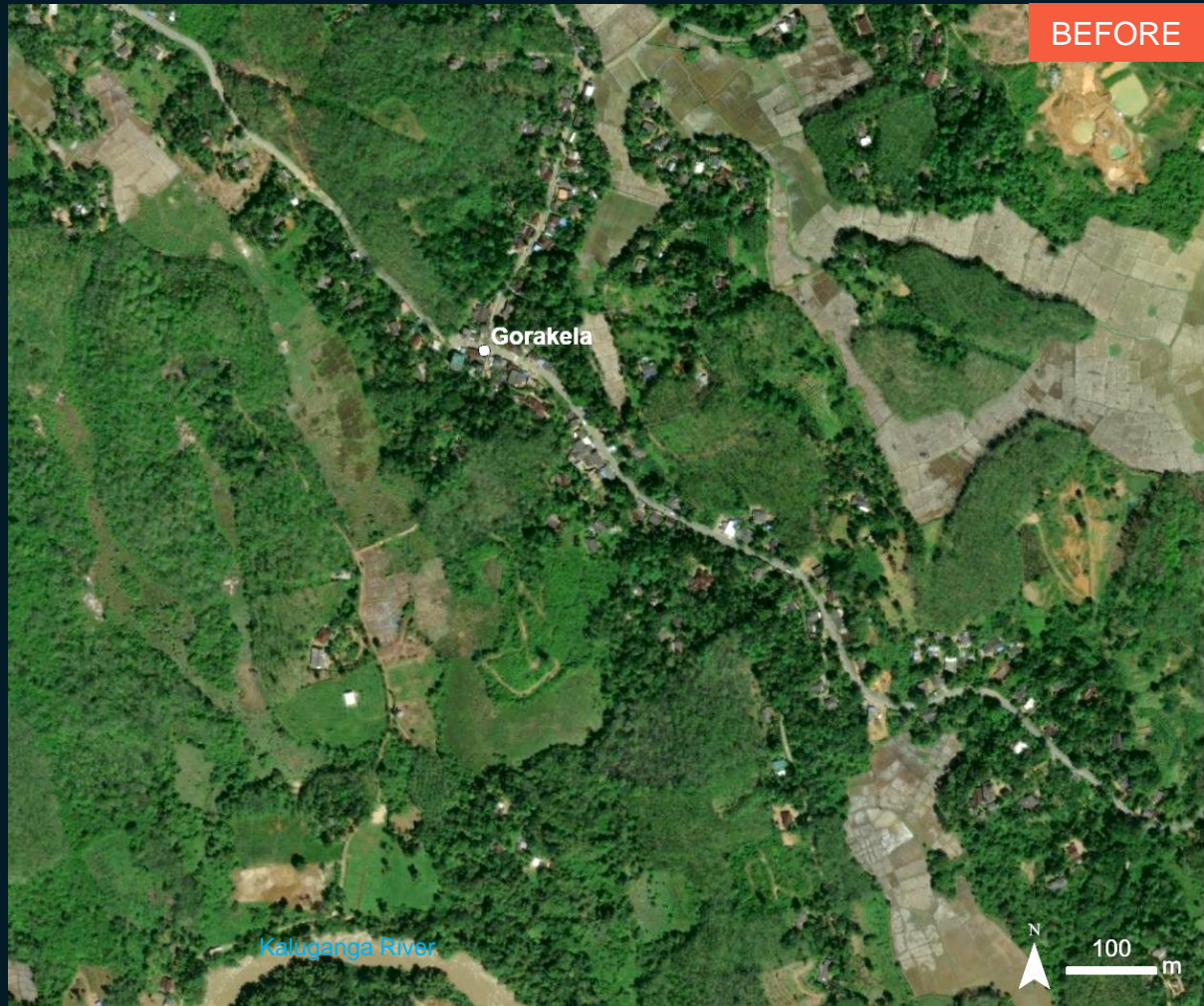
Satellite detected flood extent in Ratnapura District, Sabaragamuwa Province, Sri Lanka as of 4 June 2024



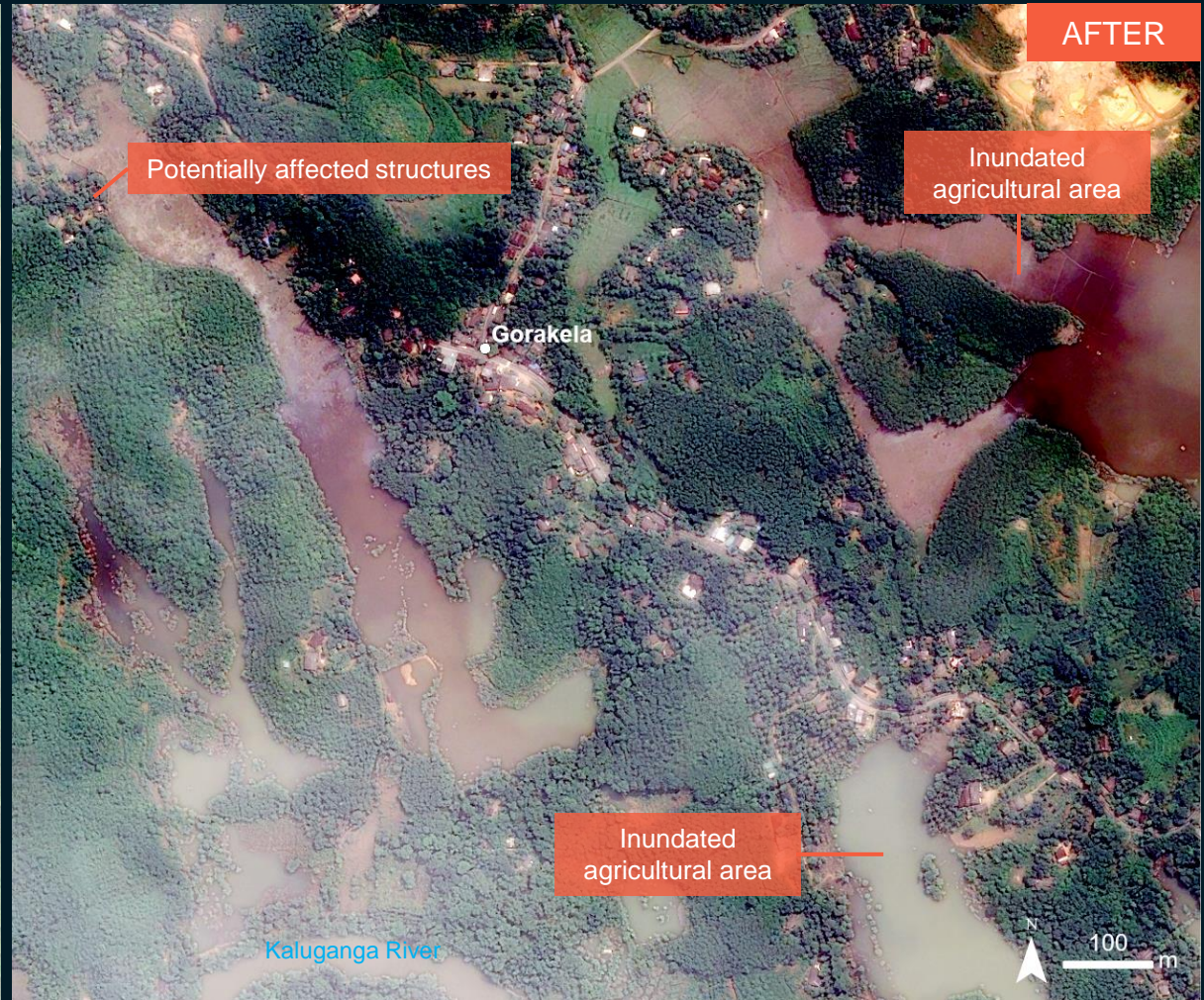
AOI 1: GORAKELA VILLAGE, RATNAPURA DISTRICT, SABARAGAMUWA PROVINCE

Inundated agricultural area & potentially affected structures

Image center:
80°19'7"E
6°43'46"N



WorldView-2 / 14 November 2020



Pleiades / 6 June 2024

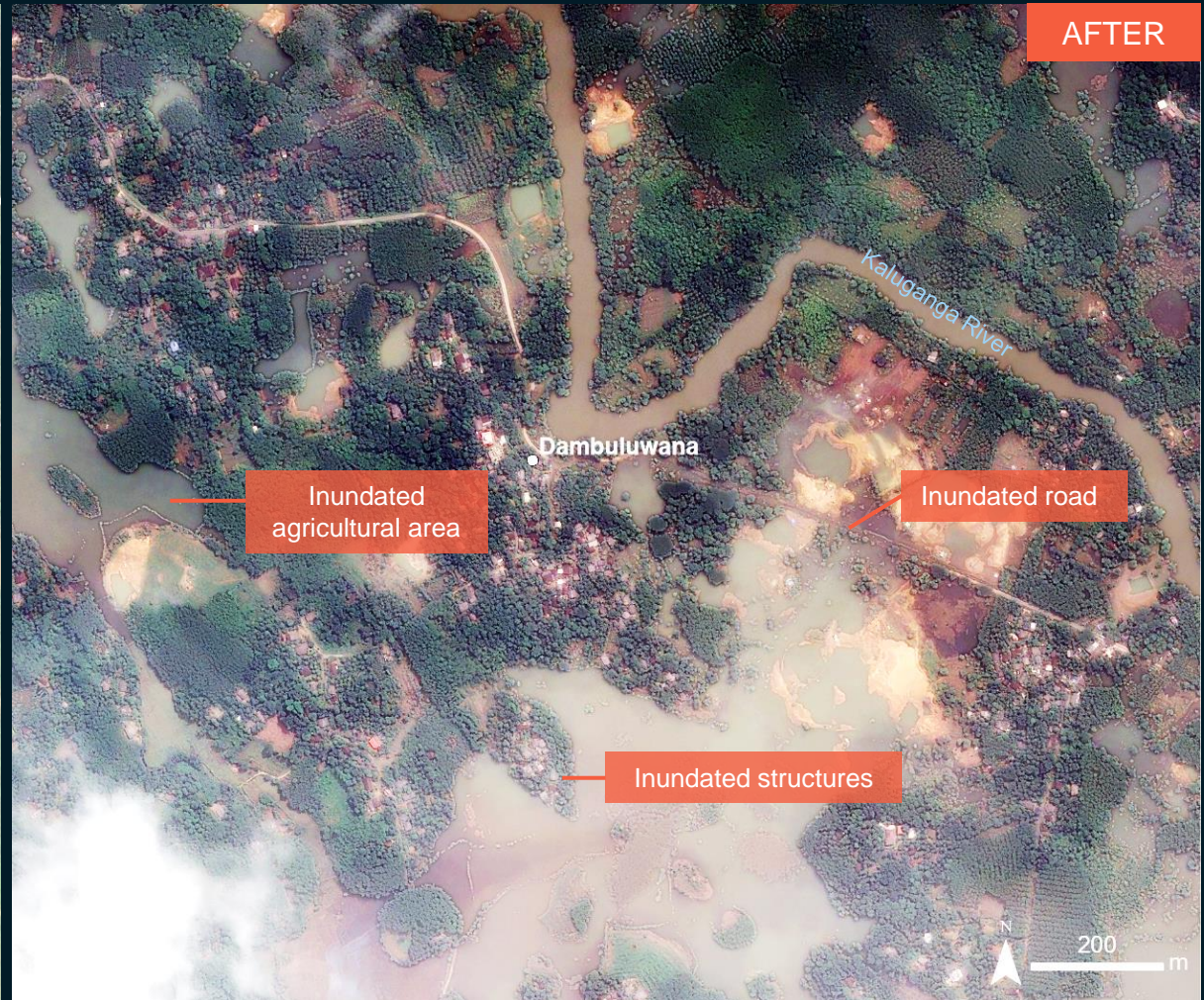
AOI 2: DAMBULUWANA VILLAGE, RATNAPURA DISTRICT, SABARAGAMUWA PROVINCE

Inundated agricultural area & Inundated structures

Image center:
80°20'12"E
6°42'40"N



WorldView-2 / 14 November 2020



Pleiades / 6 June 2024

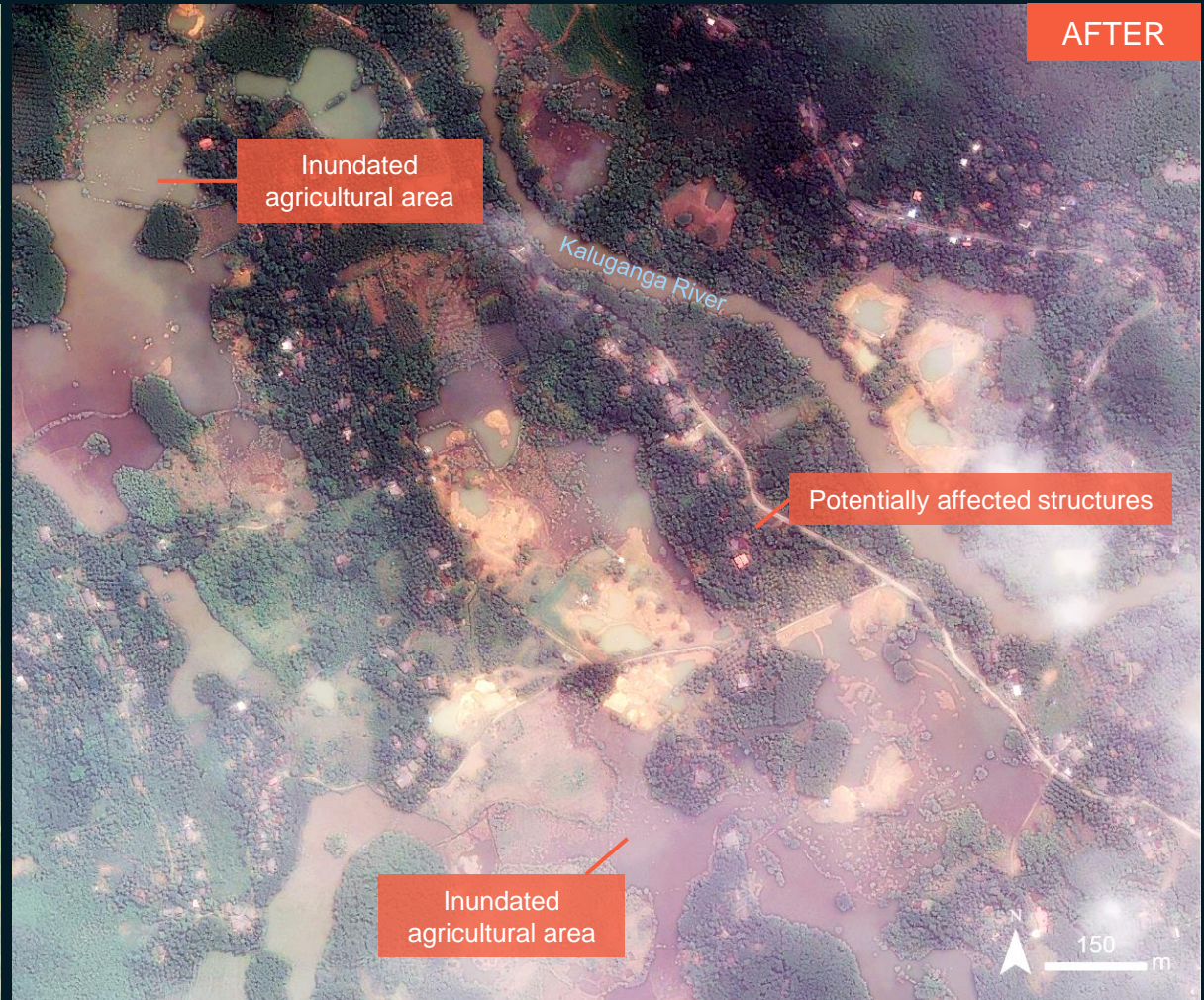
AOI 3: RATNAPURA DISTRICT, SABARAGAMUWA PROVINCE

Inundated agricultural area & potentially affected structures

Image center:
80°21'2"E
6°41'54"N



WorldView-2 / 14 November 2020



Pleiades / 6 June 2024

AOI 4: GALUKAGAMA VILLAGE, RATNAPURA DISTRICT, SABARAGAMUWA PROVINCE

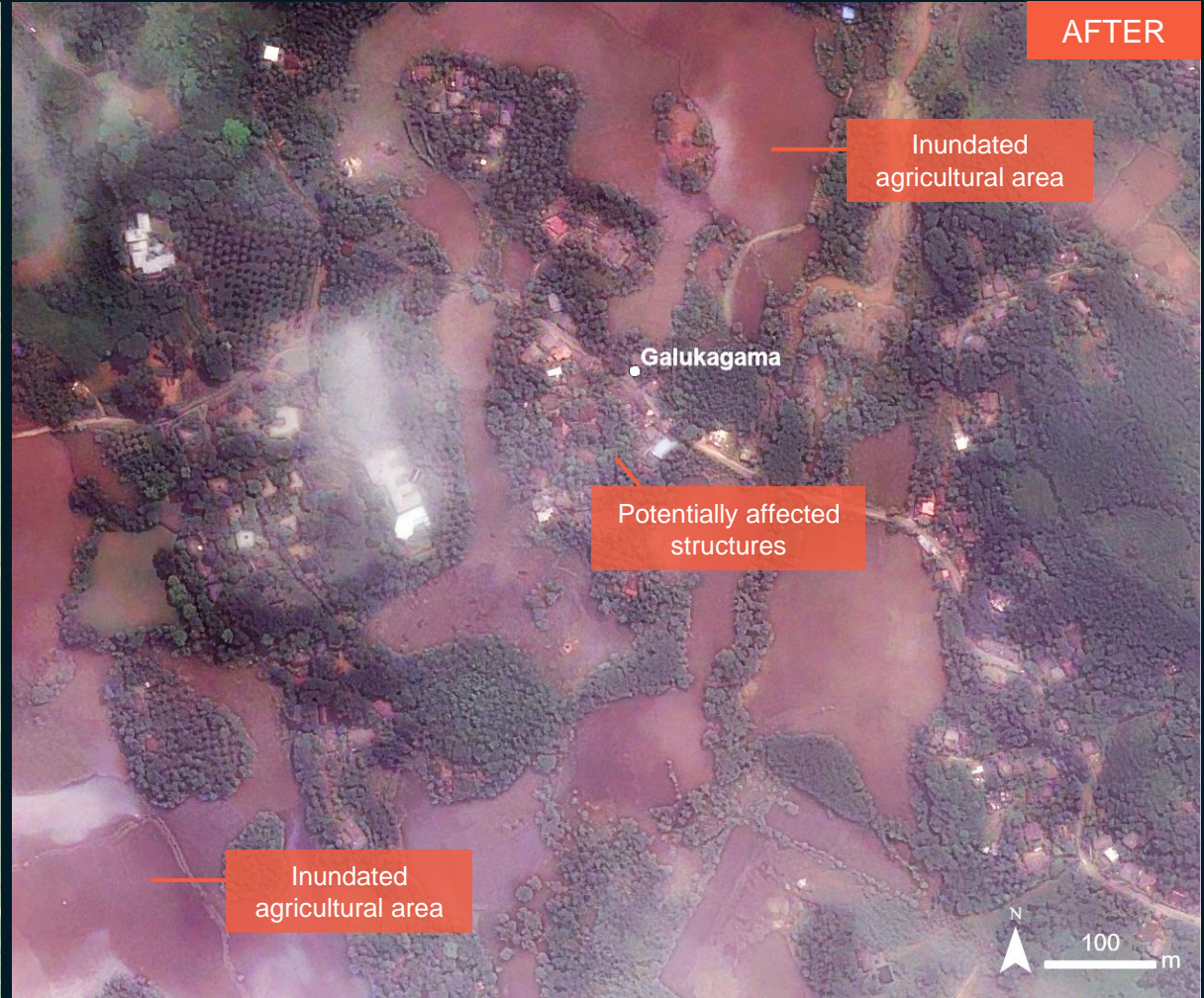
Inundated agricultural area & potentially affected structures

Image center:
80°22'3"E
6°43'22"N



BEFORE

WorldView-2 /14 November 2020



AFTER

Pleiades / 6 June 2024

SUMMARY OF FINDINGS

- Widespread flood observed as of 06 June 2024 in Ratnapura District, Sabaragamuwa Province, Sri Lanka;
- Inundated structures and flooded roads observed in several villages in Ratnapura District, Sabaragamuwa Province, Sri Lanka, as of 06 June 2024;
- Inundated agricultural areas observed in several villages in Ratnapura District, Sabaragamuwa Province, Sri Lanka, as of 06 June 2024.

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Data sources:

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

Imagery Date: 4 June 2024 at 00:25 UTC

Resolution: 10m

Copyright: Contains modified Copernicus Sentinel data [2024]

Source: ESA

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

Acquisition date : 06 June 2024, 05:10 UTC

Resolution: 50cm

Copyright: Includes Pleiades material © CNES (2024), Distribution Airbus DS

Source: Airbus D&S

(3) Satellite Image (Pre-event): WorldView-2

Acquisition date : 14 November 2020

Resolution: 50cm

Copyright: © 2020 Maxar

Source: ESRI Basemap

(3) Ancillary data

Administrative boundaries: UNOCHA

Populated place: OpenStreetMap

Waterway: OpenStreetMap

Road data: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT)

Production: United Nations Satellite Centre (UNOSAT)

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Important note: Flood analysis from radar images may underestimate the presence of standing waters in built-up areas and densely vegetated areas due to backscattering properties of the radar signal.s



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