



25 June 2021

PRELIMINARY SATELLITE- DERIVED FLOOD ASSESSMENT



Region 1, 7, 8 & 9


 Status: Water decreased observed along the Takutu and Mazaruni rivers


 Further action(s): continue monitoring

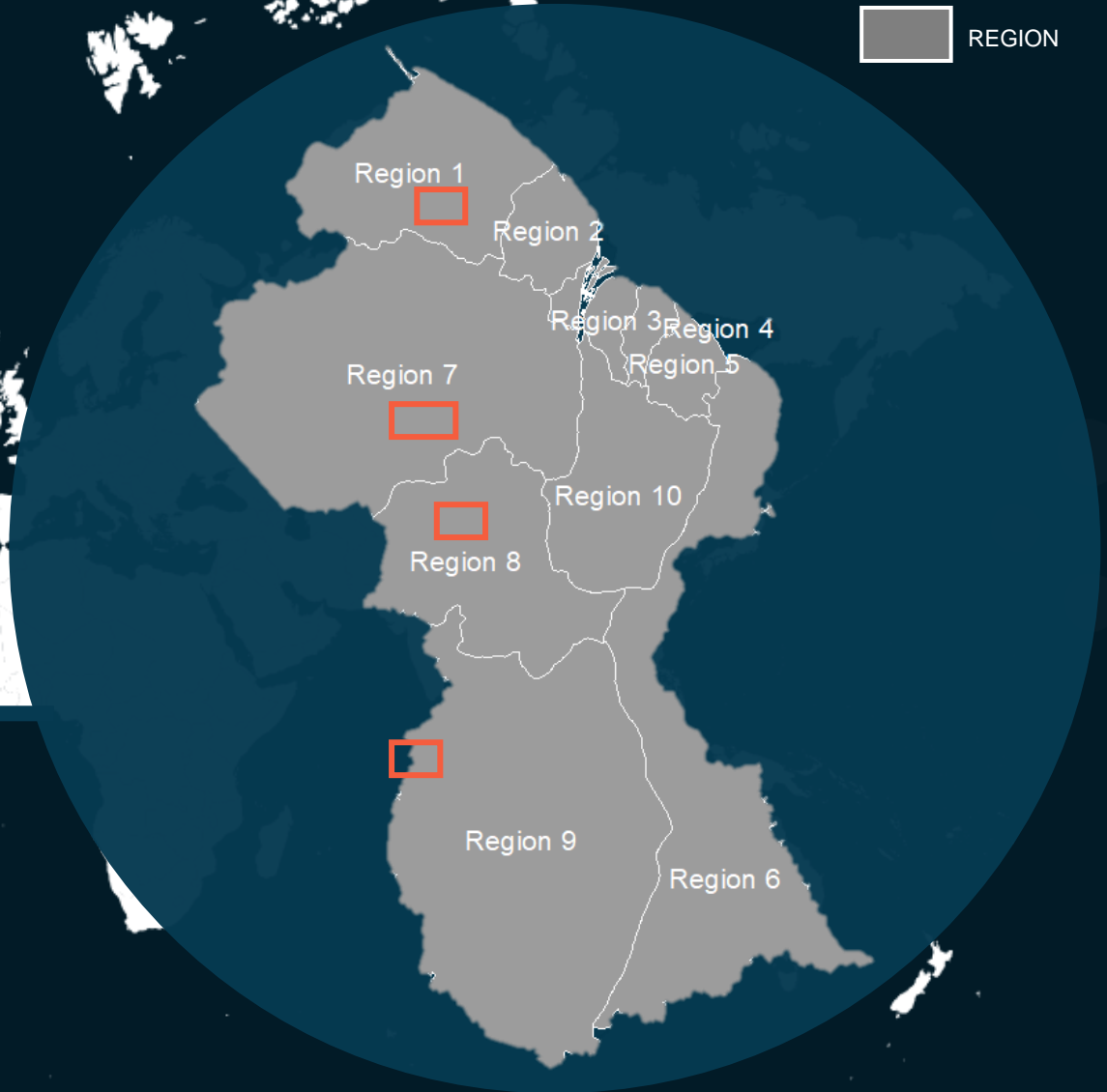
GUYANA

25 June 2021

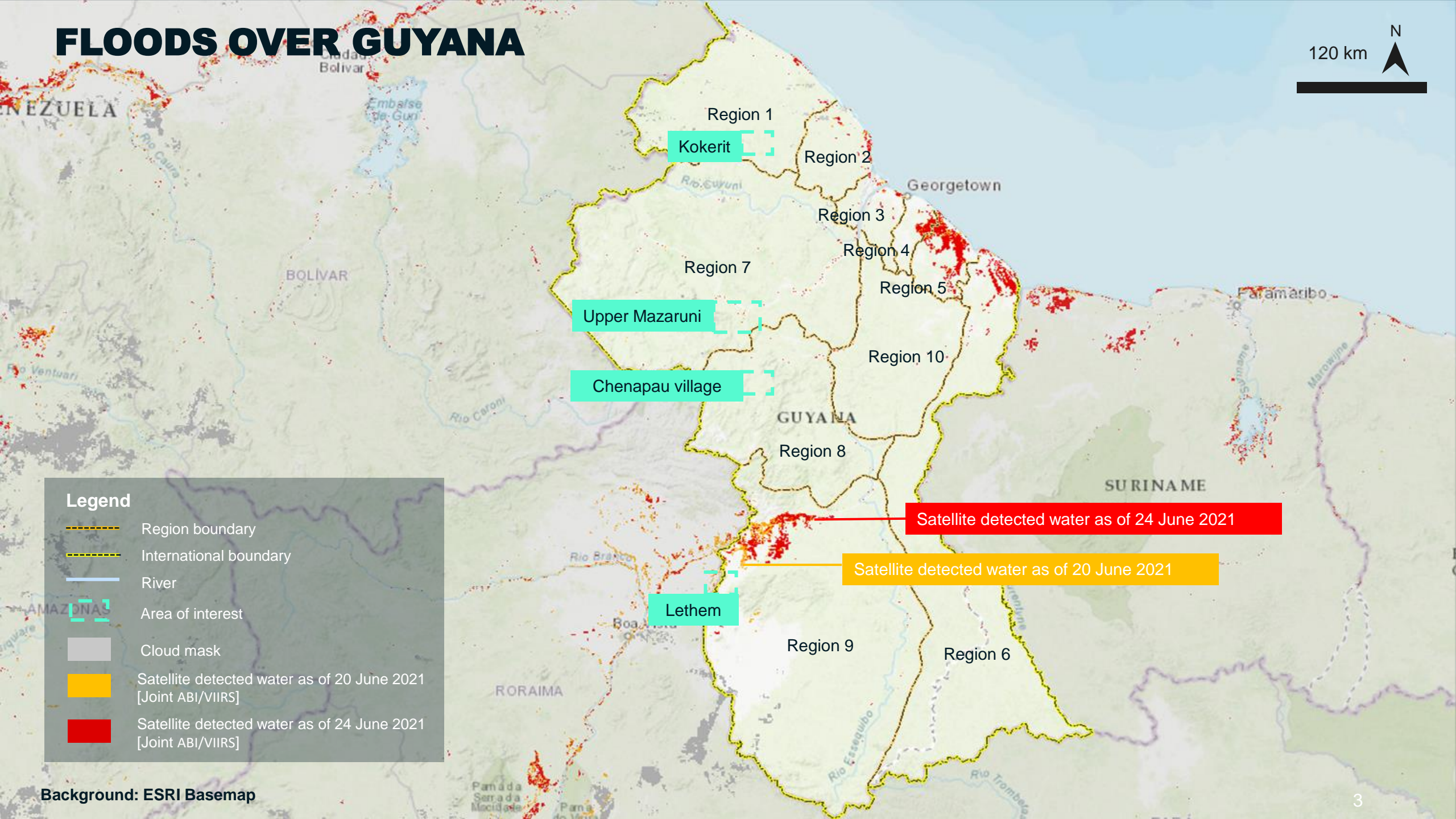
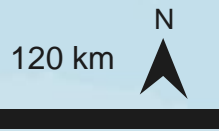


 AREA OF INTEREST (AOI)

 REGION



FLOODS OVER GUYANA



Region 1

Kokerit

Region 2

Georgetown

Region 3

Region 4

Region 7

Upper Mazaruni

Region 5

Paramaribo

Region 10

Chenapau village

GUYANA

Region 8

SURINAME

Satellite detected water as of 24 June 2021

Satellite detected water as of 20 June 2021

Lethem

Region 9

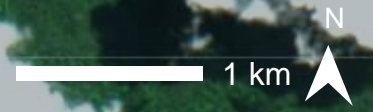
Region 6

RORAIMA

Legend

- Region boundary
- International boundary
- River
- Area of interest
- Cloud mask
- Satellite detected water as of 20 June 2021 [Joint ABI/VIIRS]
- Satellite detected water as of 24 June 2021 [Joint ABI/VIIRS]

Kokerit: Waini Sub-Region, Region 1 - Barima-Waini



Barama river

Barama river



Kokerit

No floods observed

Kokerit: Waini Sub-Region, Region 1 - Barima-Waini

Image center:
59°34'20.46"W
7°19'45.37"N



No floods observed



Sentinel-2 / 19 Feb 2021



Sentinel-2 / 24 June 2021

Upper Mazaruni : Mazaruni/ L.B.E.Rive Sub-Region, Region 7- Cuyuni-Mazaruni

1 km



Floods detected along the river
as of 14 June 2021

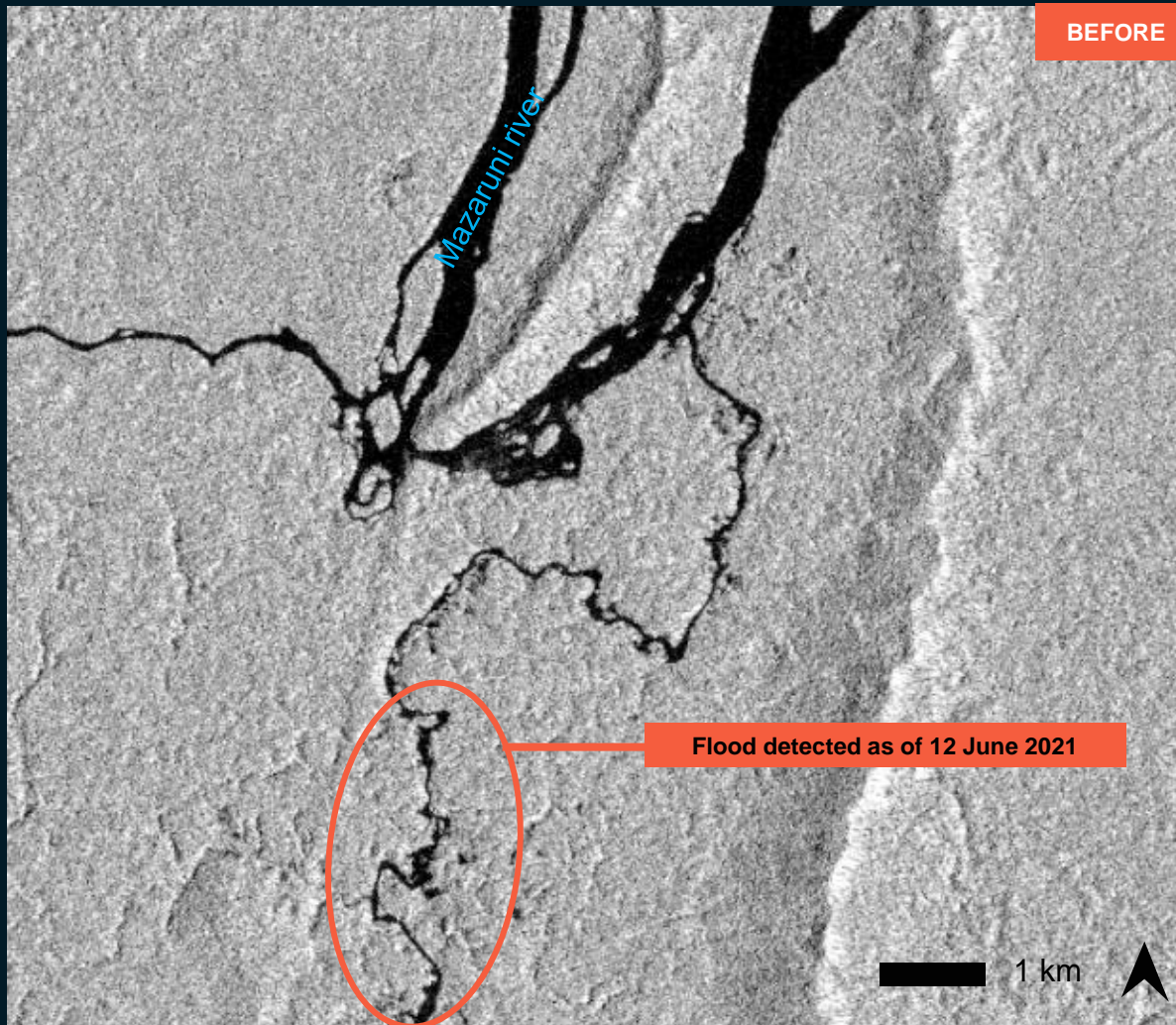
Sentinel-2 image acquired on 14 June 2021
Image Center : 59°40'13.62"W 5°42'41.72"N

Upper Mazaruni : Mazaruni/L.B.E.Rive Sub-Region, Region 7- Cuyuni-Mazaruni

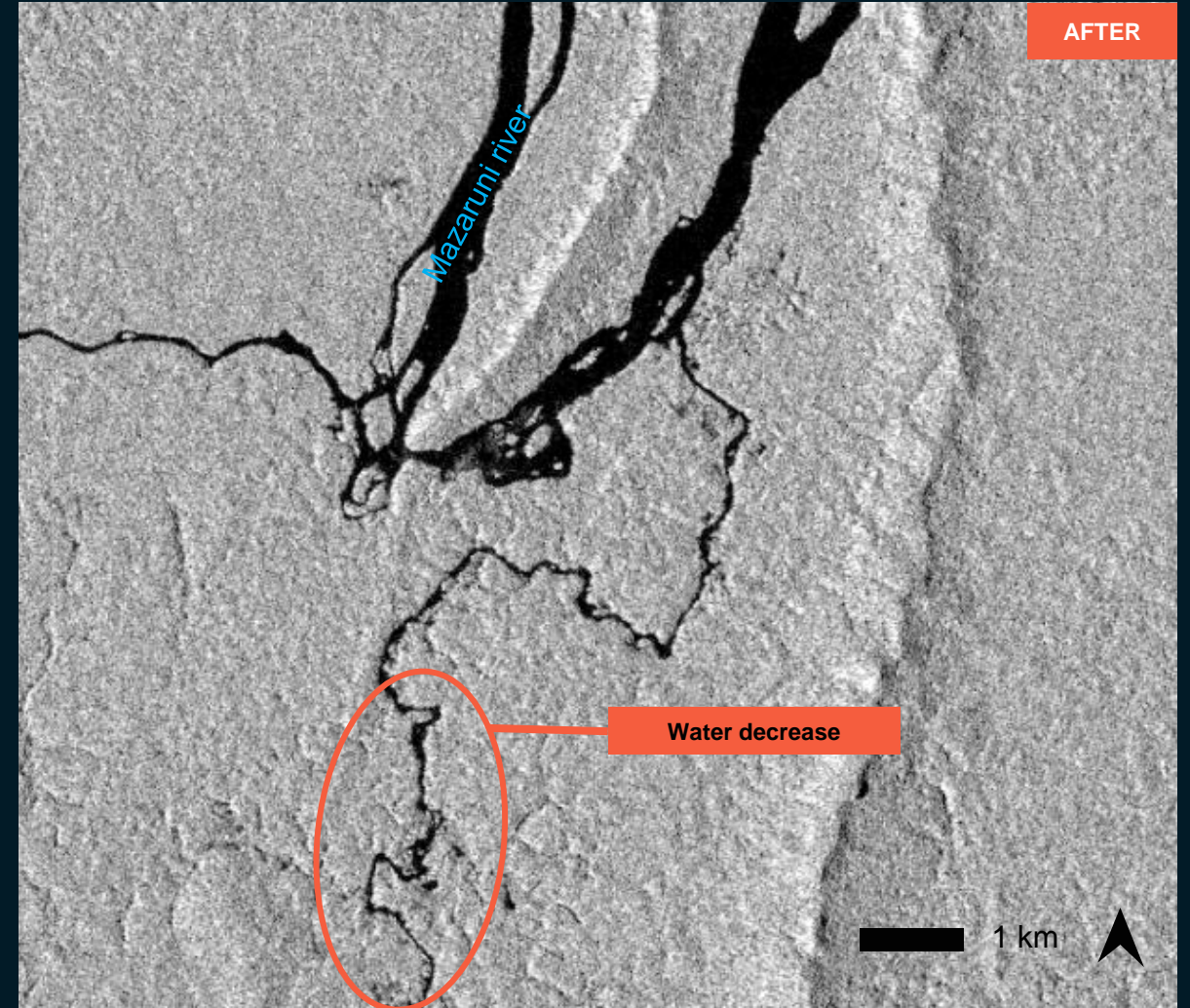
Image center:
59°36'56.97"W
5°43'56.02"N



Water decrease along the Mazaruni river



Sentinel-1 / 12 Jun 2021



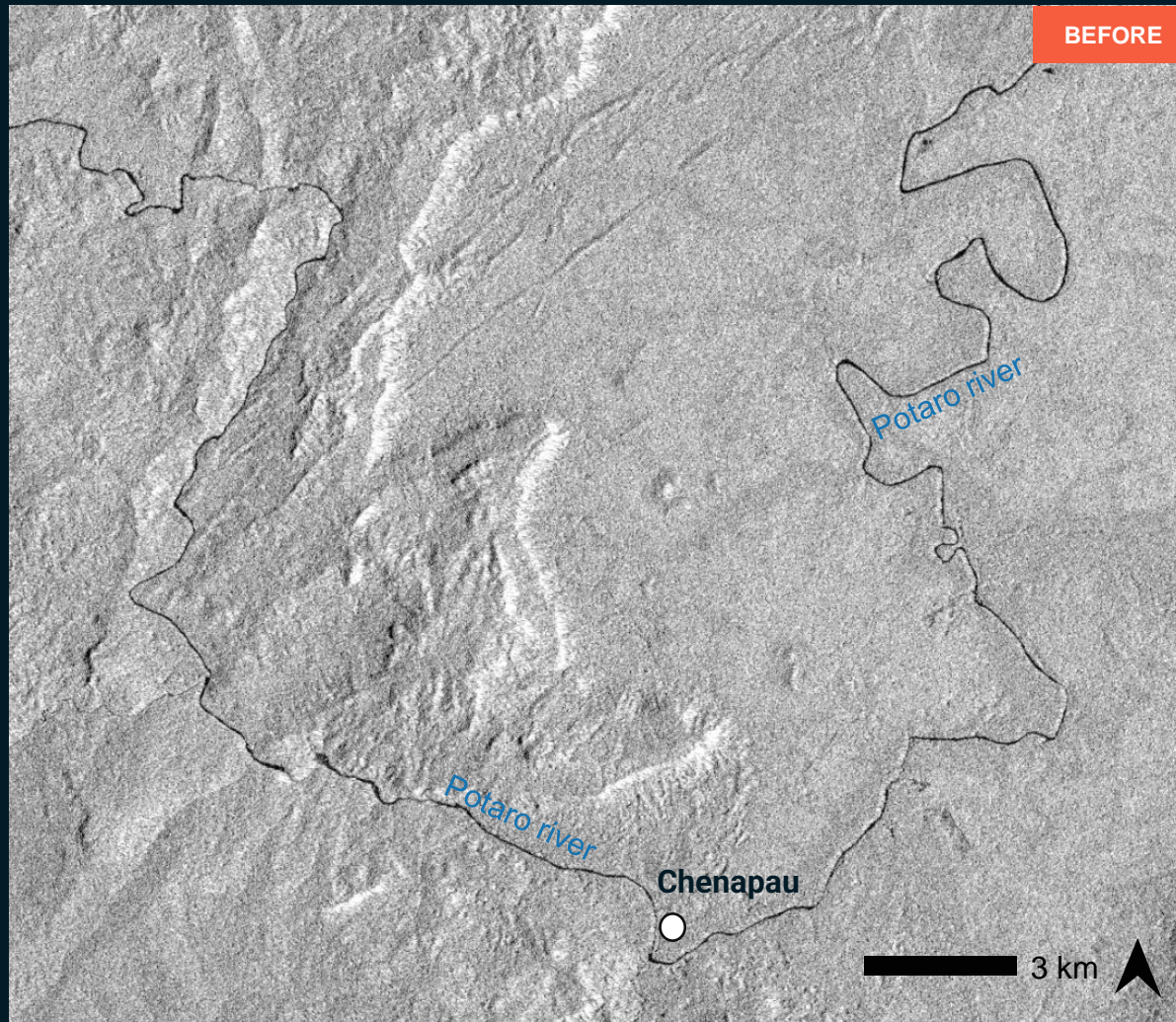
Sentinel-1 / 23 June 2021

Chenapau: Ireng/Upper Potaro Sub-Region, Region 8-Potaro-Siparuni

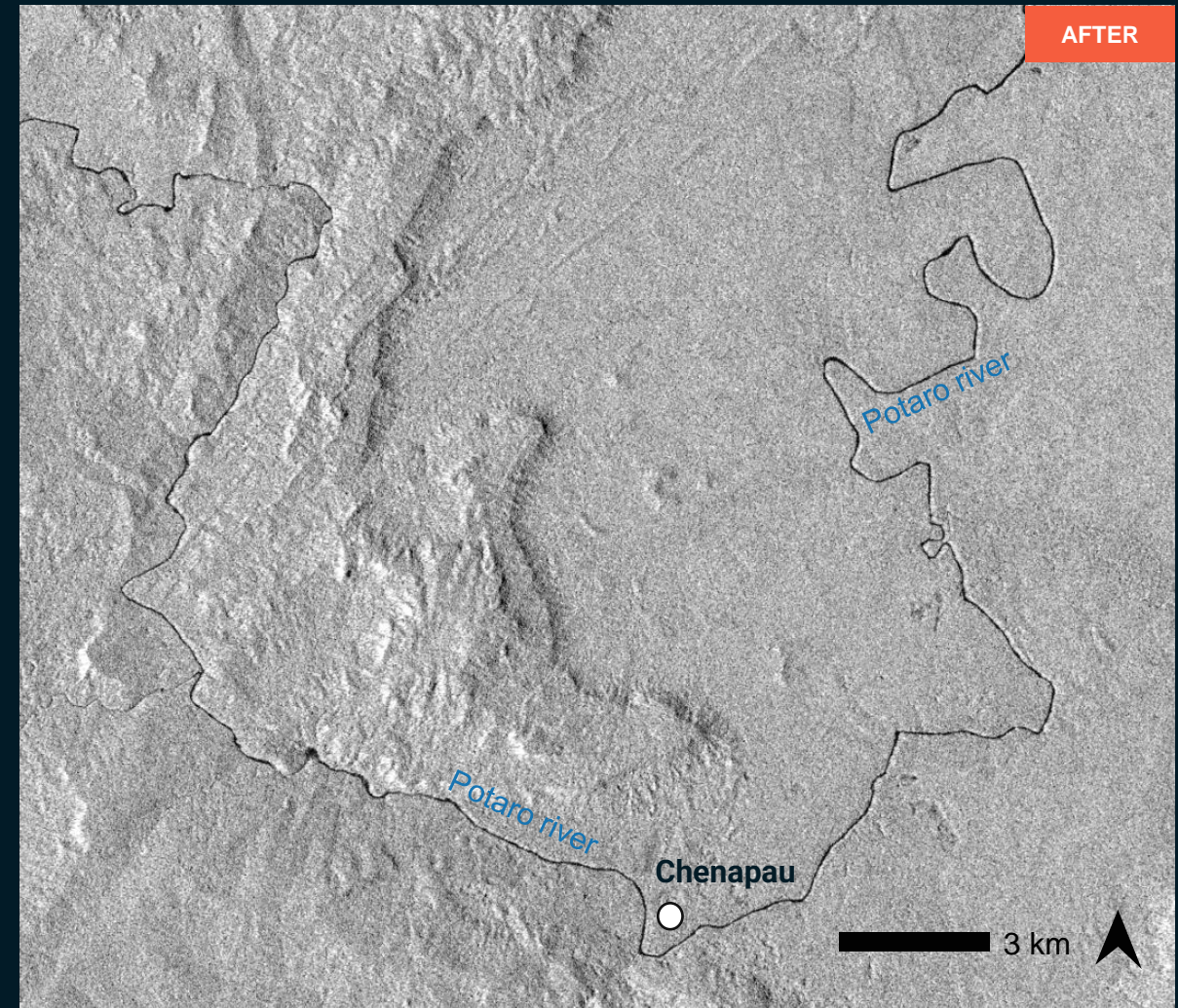
Image center:
59°35'26.346"W
5°3'3.555"N



No floods observed along the Potaro river

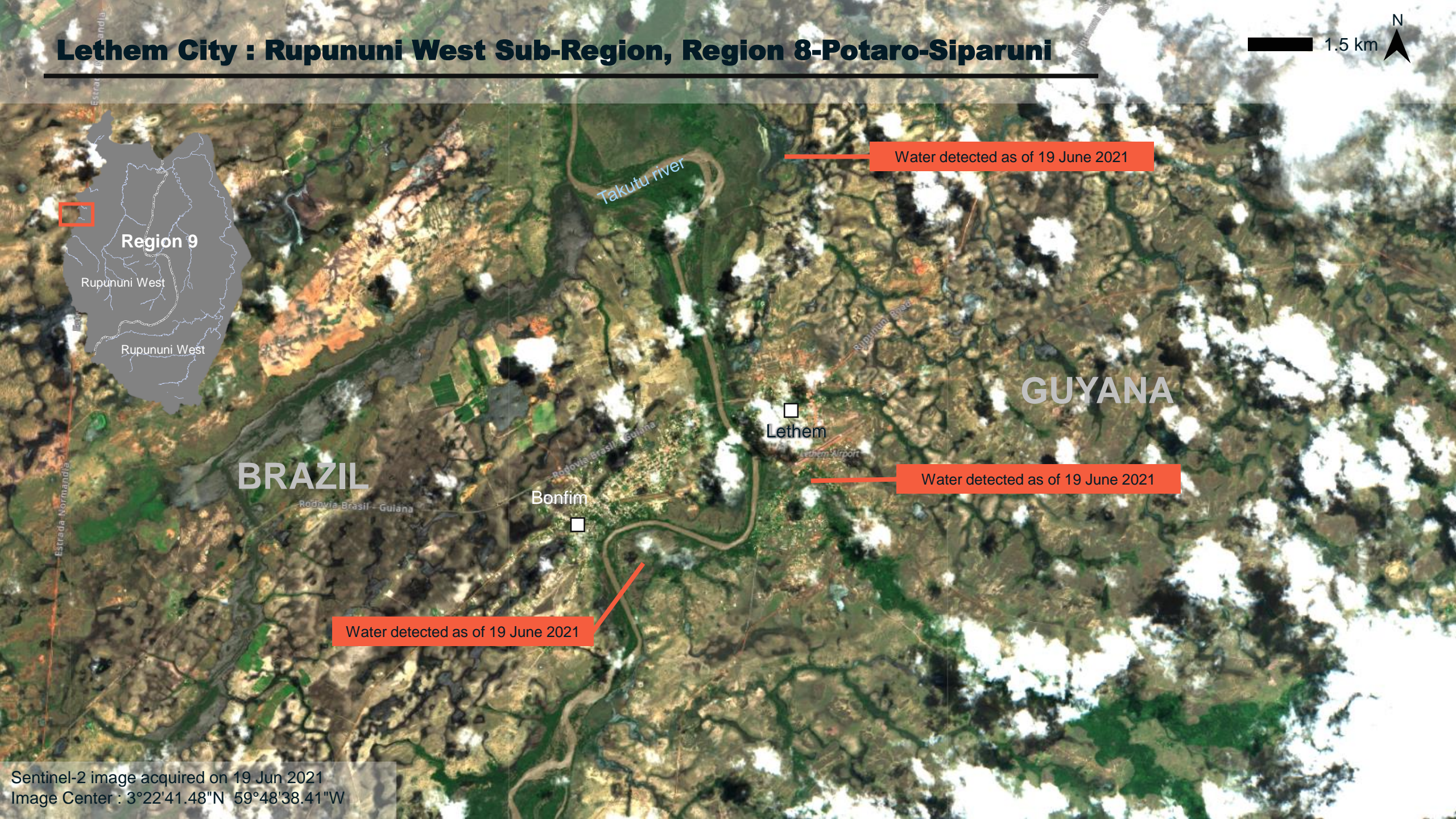


Sentinel-1 / 12 Jun 2021



Sentinel-1 / 23 June 2021

Lethem City : Rupununi West Sub-Region, Region 8-Potaro-Siparuni



Water detected as of 19 June 2021

Water detected as of 19 June 2021

Water detected as of 19 June 2021

Sentinel-2 image acquired on 19 Jun 2021
Image Center : 3°22'41.48"N 59°48'38.41"W

SUMMARY OF FINDINGS

- Decreased water level in the Mazaruni river in Upper Mazaruni AOI, Mazaruni/L.B.E.Rive Sub-Region, Region 7 as of 23 June 2021;
- No floods observed over Kokerit village, Waini Sub-Region, Region 1 as of 24 June 2021;
- Decreased water level in the Takutu river near Lethem city, Rupununi West Sub-Region, Region 8 as of 23 June 2021;
- No floods observed over Chenapau village, Ireng/Upper Potaro Sub-Region, Region 8 as of 23 June 2021;

COPYRIGHTS AND SOURCES

Data sources:

(1) Satellite Image (Post-event)

Sentinel-1B / 23 June 2021 at 22:16 UTC

Sentinel-2A / 24 June 2021 at 14:27 UTC

Copyright: Contains modified Copernicus Sentinel Data [2021]

Source: ESA

GOES-16/ABI, Suomi-NPP and NOAA-20/VIIRS / 20 & 24 June 2021

Copyright: NOAA/Suomi NPP

Source: NOAA and GEOS Rebroadcast (GRB)

(2) Satellite Image (Pre-event)

Sentinel-1A / 12 June 2021 at 09:45 UTC

Sentinel-2A / 14 June 2021 at 14:27 UTC

Sentinel-2B / 18 February 2021 at 14:27 UTC

Copyright: Contains modified Copernicus Sentinel Data [2021]

Source: ESA

(3) Ancillary data

Administrative boundaries: Guyana Lands and Surveys Commission, HDX

Populated places: OpenStreetMap

Waterways: OpenStreetMap

Analysis: UNITAR-UNOSAT

Production: UNITAR-UNOSAT

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