PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT

Along the Cuyuni, Mazaruni, and Berbice Rivers, Guyana

💻 Status: Water increase, and inundated structures observed

🔍 Further action(s): continue monitoring
PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT
(Based on Sentinel-2 data acquired between 8-20 August 2021)

AREA OF INTEREST (AOI)
Kwakwani town
Jawalla town
Aura settlement
Imbaimadai town
Kwakwani town
SATELLITE-DETECTED FLOOD WATERS IN GUYANA BETWEEN 21&25 AUGUST 2021

Legend
- Region boundary
- International boundary
- River
- Satellite detected water between 21&25 Aug 2021 [Joint ABI/VIIRS]

Background: ESRI Basemap
AOI 1 AURA SETTLEMENT, REGION 7 (CUYUNI-MAZARUNI)

Inundated structures along the Cuyuni river observed

Sentinel-2 / 24 Jun 2021

Sentinel-2 / 8 Aug 2021
Increased water and potentially affected observed

AOI 2 JAWALLA TOWN, REGION 7 (CUYUNI-MAZARUNI)

JAWALLA TOWN

Increased water

Potentially affected structures

Mazaruni river

Sentinel-2 / 19 July 2021

Sentinel-2 / 18 Aug 2021
AOI 3 IMBAIMADAI TOWN, REGION 7 (CUYUNI-MAZARUNI)

No floods observed
AOI 4 KWAKWANI TOWN, REGION 10 (UPPER DEMERARA-BERBICE)

Inundated structures since 6 June 2021 observed

Kwakwani Town

Decreased water

Kwakwani Town

Decreased water

Sentinel-2 / 6 June 2021

Sentinel-2 / 20 Aug 2021
SUMMARY OF FINDINGS

- Inundated structures in Aura settlement along the Cuyuni River, Region 7-Cuyuni-Mazaruni observed as of 8 Aug 2021;

- Increased water and potentially affected structure observed over the Jawalla town, along the Mazaruni River, Region 7-Cuyuni-Mazaruni as of 18 Aug 2021;

- No floods observed over the Imbaimadai town, Region 7-Cuyuni-Mazaruni as of 18 Aug 2021;

- Inundated structures along the Berbice River since 6 June 2021 observed, Kwakwani Town, Region 10-Upper Demerara-Berbice as of 20 Aug 2021;
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Data sources:

(1) Satellite Image (Post-event)
Sentinel-2 / 8, 18 and 20 June 2021
Copyright: Contains modified Copernicus Sentinel Data [2021]
Source: ESA

(2) Satellite Image (Pre-event)
Sentinel-2 / 6 & 24 June 2021 and 19 July 2021
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