21 June 2021

PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT

Region 1, 4, 7, 8 & 9 - Guyana

Status: Water increase along several rivers

Further action(s): continue monitoring
Kokerit: Waini Sub-Region, Region 1 - Barima-Waini

Cloud covered village

Sentinel-2 image acquired on 19 June 2021
Image Center: 59°34'37.847"W 7°19'24.037"N
Cane Grove Savannas: Buxton/Mahaica Sub-Region, Region 4 - Demerara-Mahaica

Sentinel-2 image acquired on 19 June 2021
Image Center: 58°5'31.231" W, 6°32'17.703" N

Water increase in Mahaica river

AOI: Buxton/Mahaica AOI

Sentinel 2 image extracted from: https://scihub.copernicus.eu/dhus/

Water increase and inundated agricultural fields along the Mahaica river observed
Upper Mazaruni: Mazaruni/L.B.E.Rive Sub-Region, Region 7 - Cuyuni-Mazaruni

Sentinel-2 image acquired on 19 June 2021
Image Center: 60°11'16.503"W 6°16'53.553"N
Upper Mazaruni: Mazaruni/L.B.E.Rive Sub-Region, Region 7 - Cuyuni-Mazaruni

Potentially affected structures along the Mazaruni river observed

Sentinel-2 / 21 Nov 2020

Sentinel-2 / 19 June 2021
Upper Mazaruni: Mazaruni/L.B.E.Rive Sub-Region, Region 7 - Cuyuni-Mazaruni

Water increase along the Mazaruni river and potentially affected structures observed

Sentinel-2 / 10 April 2021

Sentinel-2 / 19 June 2021
Kanapang & Itabak: Ireng/Upper Potaro Sub-Region, Region 8 – Potaro-Siparuni

Sentinel-2 image acquired on 19 June 2021
Image Center: 60°00'13"W 04°35'18"N
Kanapang: Ireng/Upper Potaro Sub-Region, Region 8 – Potaro-Siparuni

Overflow evidence along the Maú river

Sentinel-2 / 20 April 2021

Sentinel-2 / 19 June 2021
Itabak: Ireng/Upper Potaro Sub-Region, Region 8 – Potaro-Siparuni

No floods observed in cloud free zones along the Maú river

Sentinel-2 / 20 April 2021

Sentinel-2 / 19 June 2021
Kaibarupai - Waipa: Ireng/Upper Potaro Sub-Region, Region 8 – Potaro-Siparuni

No floods observed in cloud free zones along the Maú river

Sentinel-2 / 10 May 2021

Sentinel-2 / 19 June 2021
Microbie: Lower Potaro/Ladsm Sub-Region, Region 8 – Potaro-Siparuni

Water increase along the Takutu river

Sentinel-2 / 31 March 2021

Sentinel-2 / 19 June 2021
Lethem: Ireng / Upper Potaro Sub-Region, Region 9 - Upper Takutu – Upper Essequibo

Water increase in the vicinity of Lethem city

Sentinel-2 / 26 March 2021

Sentinel-2 / 19 June 2021
• Increased water level of the Mahaica river and inundated agricultural fields in Cane Grove Savannas area, Region 4 as of 19 June 2021;

• Increased water level of the Mazaruni river and potentially affected structures in Upper Mazaruni area, Region 7 as of 19 June 2021;

• Overflow evidence of the Maú river downstream of Kaibarupai-Waipa & Itabak areas, Region 8 as of 19 June 2021;

• Increased water level of the Takutu river in Microbie area, Region 8 as of 19 June 2021;

• Increased water level in the vicinity of Lethem city along the Takutu river, Region 9 as of 19 June 2021.
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Data sources:

(1) Satellite Image (Post-event)
Sentinel-2 / 19 June 2021
Copyright: Contains modified Copernicus Sentinel Data [2021]
Source: ESA

(2) Satellite Image (Pre-event)
Sentinel-2 / 21 Nov 2020, 26 & 31 March 2021, 10 & 20 April 2021, 10 May 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