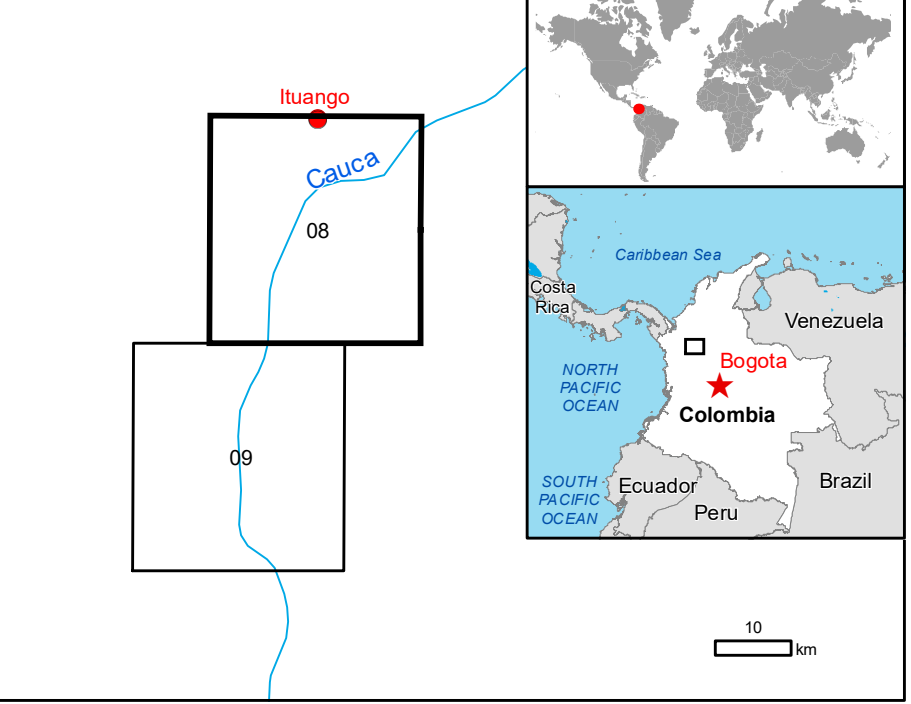


GLIDE number: N/A Activation ID: EMSR286
Product N.: 08ITUANGONORTH, v1, English

ITUANGO NORTH - COLOMBIA

Flood - Situation as of 17/05/2018

Delineation Map - MONIT01



Cartographic Information

1:55000 Full color ISO A1, medium resolution (200 dpi)

0 0.75 1.5 3 4.5 km

Grid: WGS 1984 UTM Zone 18N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

- Crisis Information**
 - Flooded Area (17/05/2018 15:36 UTC)
 - Previous Flooded Area (02/05/2018 15:36 UTC)
 - Area of Interest
 - Not Analysed
- Hydrography**
 - River
 - Stream
 - Lake
 - River
- General Information**
 - Placename
 - Built-Up Area
 - Built-Up Area
- Land use - Land Cover**

Features available in vector data

Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded area		ha	0	1277.6
Estimated population		Number of inhabitants	0	132722
Settlements	Residential	ha	0.0	140.6
Land Use	Forests	ha	1119.4	71130.5
	Shrub and/or herbaceous vegetation association	ha	113.0	15533.4
	Open spaces with little or no vegetation	ha	0.0	4.3
	Wetland wetlands	ha	0.0	128.8

Map Information

The Ituango Dam, an earth-core rock-filled dam currently under construction on the Cauca river (near Ituango town, Antioquia Department) it is at risk of collapse. Heavy rains and two tunnels collapsing as of 28 April, pose a high risk of failure of the earth embankment dam. Such a collapse could lead to catastrophic flooding downstream along the Cauca River. Preventive evacuations on many municipalities were ordered on Wednesday, May 16, and five municipalities have been placed on maximum alert (Valdivia, Cáceres, Nechi, Tarazá, and Caucasia).

The total number of inhabitants potentially affected by floodings following the dam collapse is estimated to be up to 120,000.

The present map shows the flood delineation in the area of the Ituango Dam. The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy is 5 m CE30 or better, from native positional accuracy of the background satellite image.

Relevant date records			
Event	22/05/2018	Situation as of	17/05/018
Activation	22/05/2018	Map production	26/05/2018

Data Sources

Pre-event image: Sentinel 2B (2018) (acquired on 07/04/2018 at 15:36 UTC, GSD 10 m, approx. 40% cloud coverage in Aoi, 9.7° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Post-event image: Sentinel 2B (2018) (acquired on 17/05/2018 at 15:36 UTC, GSD 10 m, approx. 50% cloud coverage in Aoi, 9.7° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Sentinel 2B (2018) (acquired on 02/05/2018 at 15:36 UTC, GSD 10 m, approx. 30% cloud coverage in Aoi, 9.7° off-nadir angle) provided under COPERNICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, refined by the producer.

Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2015
http://data.europa.eu/89h/jrc-ghs-ghs_pop_gpw4_globe_r2015a.

Digital Elevation Model: SRTM (90m) (NASA/USGS)

Disclaimer

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Map produced by e-GEOS released by SERTIT (ODO).

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