

Oti River - TOGO

Flood - Situation as of 20/10/2020

Delineation MONIT01 - Overview map 01

Cartographic Information

1:265000

Full color A1, 200 dpi resolution

Grid: WGS 1984 UTM Zone 31N map coordinate system
Tick marks: WGS 84 geographical coordinate system



Crisis Information

Flooded Area
(20/10/2020 05:45 UTC)
Previous Flooded Area
(14/10/2020 18:11 UTC)

General

Area of Interest

Detail map

Image Footprint

Administrative boundaries

International Boundary

Region

Province

Placenames

Placename

Hydrography

River

Stream

Lake

Reservoir

Dam

Construction for mining or extraction

Transportation

Primary Road

Secondary Road

Local Road

Cart Track

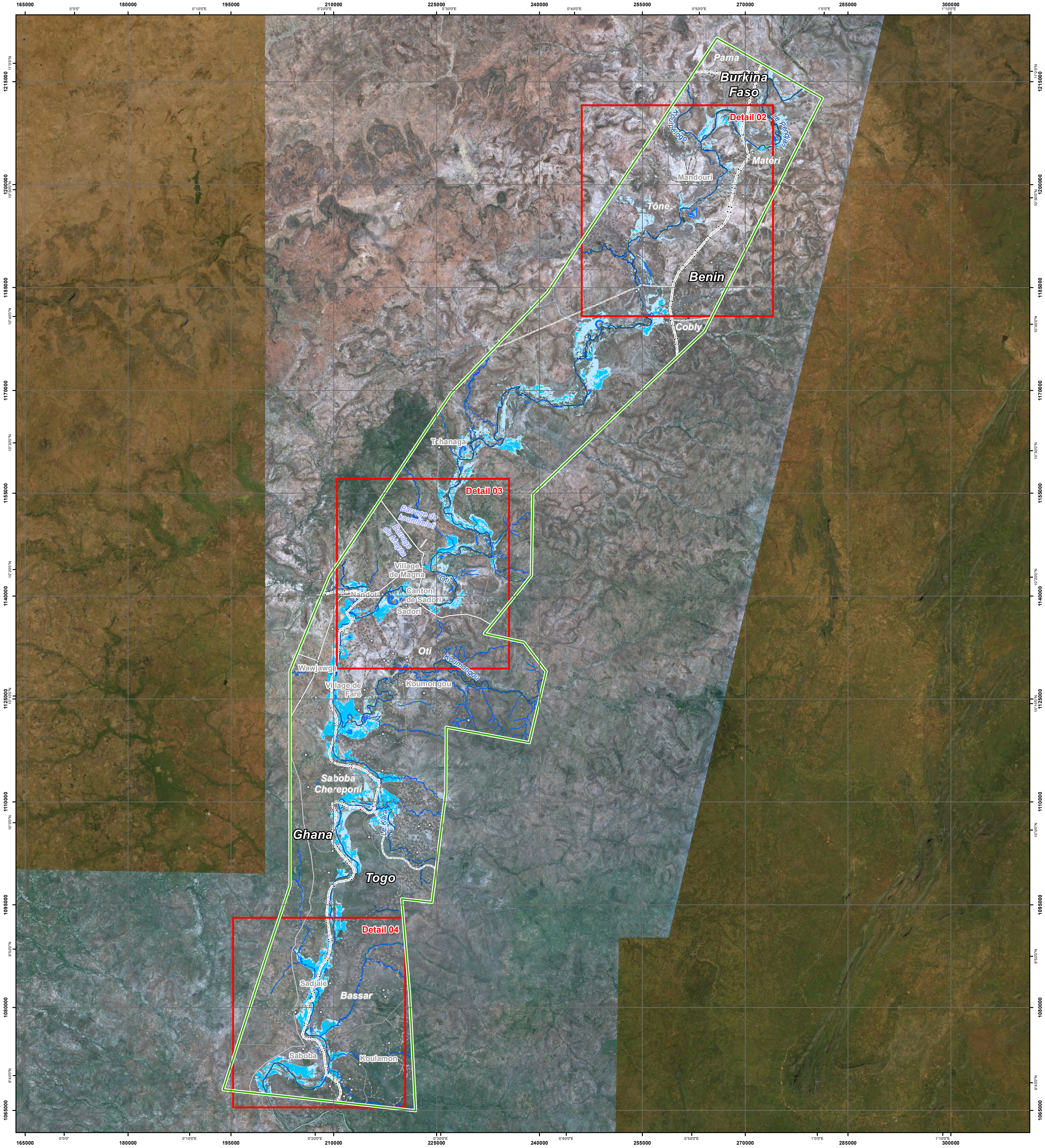
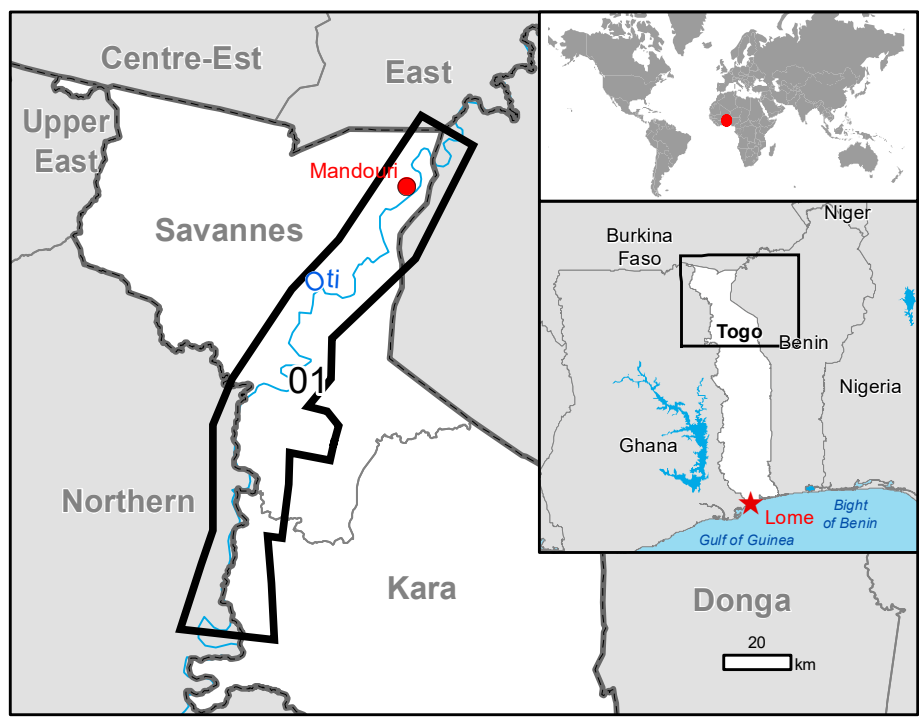
Airfield runway

Physiography & Land Use - Land Cover

Features available in the vector package

Legend

Consequences within the AOI		Unit of measurement	Affected	Total in AOI
Flooded area		ha	14034.7	
Estimated population		Number of inhabitants	347227	
Transportation	Airfield runways	km	0.0	1.3
	Primary Road	km	0.2	74.7
	Secondary Road	km	0.1	58.7
	Local Road	km	0.3	307.8
	Cart Track	km	42.6	1858.0
Facilities	Constructions for mining or extraction	ha	0.0	0.3
	Dams	km	0.0	0.1
Land use	Heterogeneous agricultural areas	ha	2585.0	99348.8
	Forests	ha	1403.2	11751.9
	Shrub and/or herbaceous vegetation association	ha	9435.0	263293.2
	Inland wetlands	ha	162.8	289.6
	Other	ha	462.8	3973.6



Map Information

Since the 05/10/2020, Togo has been badly affected by the flooding of the Oti river and its tributaries. Local authorities reported almost 57,000 affected people with 11 fatalities, mainly in rural and peri-urban areas. The flood extent situation is needed to assess impacts on settlements, agricultural systems and damages on infrastructures.

The present map shows the flood delineation in the area of Oti River (Togo). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy (RMSE) is 12.5 m or better, from native positional accuracy of the background satellite image.

Data sources

Pre-event image: Sentinel-2B (2020) (acquired on 18/05/2020 at 10:15 UTC, GSD 10.0 m, approx. 0% cloud coverage in AoI, 7.9° off-nadir angle) provided under COPENICUS by the European Union and ESA.
Post-event image: Sentinel-1A/B (2020) (acquired on 14/10/2020 at 18:11 UTC and 20/10/2020 at 05:45 UTC, GSD 10.0 m) provided under COPENICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, Globe Land 3D (2010), Global Administrative Areas (2012), refined by the producer.
Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2019
Digital Elevation Model: SRTM (30 m) (NASA/USGS)

Disclaimer

Products elaborated in this Copernicus EMS Rapid Mapping activity are realized to the best of our ability, within a very short time frame, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union.
Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

Delivery formats are Layered Geospatial PDF, GeoJPEG and vector (ESRI shapefiles, Google Earth KML, GeoJSON).

Map produced by GAF AG released by e-GEOS (ODO).

For the latest version of this map and related products visit
<https://emergency.copernicus.eu/EMSR470>

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Relevant date records (UTC)

Event	05/10/2020 18:00	Situation as of	20/10/2020 05:45
Activation	13/10/2020 19:17	Map production	20/10/2020

