



GLIDE number: TC-2020-000227-NIC  
Int. Charter call ID: N/A

Activation ID: EMSR482  
Product N.: 02LACRUZDERIOGRANDE, v1

**La Cruz De Río Grande - GUATEMALA,  
HONDURAS, NICARAGUA**  
**Flood - Situation as of 19/11/2020**  
First Estimate Product

**Cartographic Information**

1:500000  
Full color A1, 200 dpi resolution

Grid: WGS 1984 UTM Zone 16N map coordinate system  
Tick marks: WGS 84 geographical coordinate system

**Legend**

**Crisis Information**  
Flooded Area  
(19/11/2020 11:29 UTC)

**General Information**  
Area of Interest

**Administrative boundaries**  
Region  
Province

**Hydrography**  
River  
River

**Map Information**

Hurricane Iota is an extremely strong hurricane bringing very high levels of rainfalls to Honduras, Nicaragua and Guatemala. The risk of flooding is extremely high and many 20yr + returns are to be expected as soil is already saturated by the passage of a previous hurricane (Eta) less than two weeks ago.

The present map shows the flood first estimate product in the area of La Cruz De Río Grande (Nicaragua). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The estimated geometric accuracy (RMSE) is 25 m or better, from native positional accuracy of the background satellite image.

**Relevant date records (UTC)**

Event	17/11/2020 00:00	Situation as of	19/11/2020 11:29
Activation	17/11/2020 14:23	Map production	21/11/2020

**Data sources**

Pre-event image: Sentinel-2A/B (2020) (acquired on 20/04/2020 at 16:05 UTC, GSD 10.0 m, approx. 10% cloud coverage in AoI) provided under COPERNICUS by the European Union and ESA.  
Post-event image: Sentinel-1A/B (2020) (acquired on 19/11/2020 at 11:29 UTC, GSD 10.0 m) provided under COPERNICUS by the European Union and ESA.  
Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, Globe Land 30 (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  
[https://ghsl.jrc.ec.europa.eu/ghs\\_pop2019.php](https://ghsl.jrc.ec.europa.eu/ghs_pop2019.php)

**Disclaimer**

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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 e-GEOS released by SERTIT (ODO).

For the latest version of this map and related products visit <https://emergency.copernicus.eu/EMSR482>

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