

EMSR720 - AOI01


Flood in Rio Grande do Sul State, Brazil

GUAPORE

Situation as of 06/05/2024 13:34 UTC

Grading - Overview map 01





Flood trace 767.8 ha
Flooded area 133.2 ha
Landslide 47.2 ha



Potentially affected population
~ 2200

Affected Built-up and Transportations




Road
37.9 km




Built-Up
256 No.


Crisis Information



Flooded Area




Landslide




Flood trace


Built Up Grading



Destroyed




Damaged




Possibly damaged

Facilities Grading

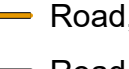


Damaged


Transportation Grading



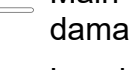
Road, Destroyed



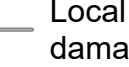
Road, Damaged



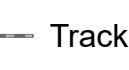
Road, Possibly damaged



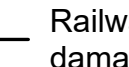
Main road, No visible damage



Local road, No visible damage




Track, No visible damage



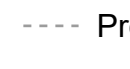
Railway, No visible damage

General Information




Area of Interest

Administrative Boundaries




Province




Municipality

Placenames




Placename


Hydrography




Stream



Lake



Reservoir



River

Event:
Authorities in Brazil's Rio Grande do Sul State declared a state of emergency on Thursday, 2 May 2024 after floods and mudslides caused by torrential rains left at least 30 people dead and 60 missing.

Storm damage has affected nearly 150 municipalities, forcing over 15,000 people to flee from their homes. In some areas, the flood is so severe that entire communities have been completely cut off from road infrastructures and network.

Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and damage assessment emergency mapping.

Data sources and analysis: Pre-event image: ESRI World Imagery © DigitalGlobe (acquired on 21/07/2022, resolution 1 m).
Post-event image: Pléiades Neo © CNES (2024), distributed by Airbus DS (acquired on 06/05/2024 at 13:34 UTC, resolution 0.3 m). This image is used as background image.

All images are provided under COPENICUS by the European Union and ESA, all rights reserved.


Base vector layers: OpenStreetMap © OpenStreetMap contributors (2024), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer. Copernicus Global Land Service: Land Cover (2019).
Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2023 https://ghs.jrc.ec.europa.eu/ghs_pop2023.php
Digital Elevation Model:
FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020)


The thematic layer has been derived from post-event satellite image using a semi-automatic approach and by means of visual interpretation.

Map produced by Telespazio Iberica released by e-GEOS on the 07/05/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR720>



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Consequences within the AOI							
	Unit of measurement		Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flood trace	ha						767.8
Flooded area	ha						133.2
Landslide	ha						47.2
Estimated population	Number of inhabitants					~ 2,200	~ 5,100
Built-up	Residential Buildings	No.	172	19	53	244	2,570
	Institutional	No.	0	0	0	0	1
	Police station	No.	0	0	0	0	1
	Wholesale and retail trade buildings	No.	0	0	0	0	3
	Industrial buildings	No.	0	0	1	1	21
	Hospital or institutional care buildings	No.	0	0	0	0	1
	Other non-residential buildings	No.	0	2	8	10	26
	Cemetery	No.	0	1	0	1	2
	Communication buildings, stations, terminals and associated building	No.	0	0	0	0	1
Transportation	Primary Road	km	0	0	4.7	4.7	21.6
	Local Road	km	1.6	4.1	9.3	14.9	29.8
	Cart Track	km	4.5	5.1	7.3	16.9	51.7
	No Driveway	km	0	0.4	0.9	1.3	1.3
	Long-distance railways	km	0	0	0	0	10.0
Facilities	Sport and recreation constructions	ha	0	0.7	0	0.7	2.7
Land use	Forests	ha				425.3	3,046.8
	Heterogeneous agricultural areas	ha				259.6	365.2
	Inland wetlands	ha				120.7	174.1
	Shrub and/or herbaceous vegetation association	ha				72.9	112.7
	Other	ha				69.7	461.6
<p>* Presence of damage proxies and proximity with destroyed/damaged asset</p> <p>** Sum of all damage classes</p>							

Disclaimer:

Full disclaimer and other helpful information available in the online manual:

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

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Data access:

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, are available in the Crisis Information Package and the Base Layer Package (for reference data).

The table above is available in editable format in the Crisis Information Package.

All products and data are also available for download on the portal.

Access to the portal



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