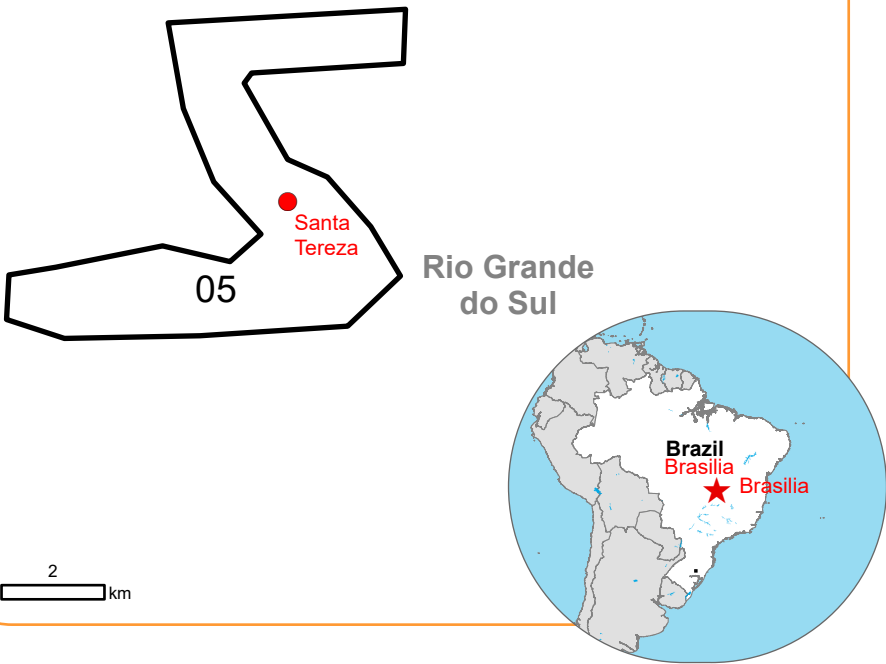




EMSR720 - AOI05  
Flood in Rio Grande Do Sul State, Brazil  
SANTA TEREZA

Situation as of 06/05/2024 13:34 UTC  
Grading - Overview map 01



Flood trace 155.3 ha  
Flooded area 34.0 ha  
Landslide 14.4 ha



Potentially affected  
population  
~ 100

Affected Built-up and Transportations



Built-up  
42 No.



Road  
4.2 km



Railway  
0.1 km

Crisis Information

- Flooded Area
- Landslide
- Flood trace

Built Up Grading

- Damaged
- Possibly damaged

Facilities Grading

- Possibly damaged

Transportation Grading

- Road, Destroyed
- Road, Damaged
- Road, Possibly damaged
- Railway, Possibly damaged
- Bridge, elevated
- highway, tunnel and subway, Destroyed
- Bridge, elevated
- highway, tunnel and subway, Possibly damaged
- Main road, No visible damage

- Local road, No visible damage
- Track, No visible damage
- Railway, No visible damage
- Bridge and elevated highway, No visible damage

General Information

- Area of Interest
- Image Footprint
- Not Analysed

Administrative Boundaries

- Province

Placenames

- Placename

Hydrography

- River
- Stream
- Reservoir
- River

**Event:** Authorities in Brazil 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 15/07/2023, resolution 1.0 m). Post-event image: Pleiades 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 COPERNICUS 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, Globe Land 30 (2010), 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://ghsl.jrc.ec.europa.eu/ghs\\_pop2023.php](https://ghsl.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 by means of visual interpretation.

Map produced by Telespazio Iberica released by e-GEOS on the 08/05/2024.

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						154.9
Flooded area	ha						34.8
Landslide	ha						14.9
Estimated population	Number of inhabitants					~ 100	~ 1,000
Built-up	Residential Buildings	No.	0	1	41	42	703
	Buildings used as places of worship and for religious activities	No.	0	0	0	0	1
	Communication buildings, stations, terminals and associated buildings	No.	0	0	0	0	1
Transportation	Bridges and elevated highways	km	0.1	0	0.1	0.1	0.2
	Primary Road	km	0	0.03	1.0	1.0	5.6
	Secondary Road	km	0	0	0	0	1.6
	Local Road	km	0.04	0.5	1.3	1.9	16.1
	Cart Track	km	0	1.2	0.02	1.2	30.6
	Long-distance railways	km	0	0	0.1	0.1	10.3
Facilities	Sport and recreation constructions	ha	0	0	1.3	1.3	1.9
	Long-distance pipelines, communication and electricity lines	km	0	0	0	0	1.5
Land use	Forests	ha				96.9	1,731.0
	Heterogeneous agricultural areas	ha				42.2	89.6
	Inland wetlands	ha				42.1	190.2
	Shrub and/or herbaceous vegetation association	ha				15.3	66.1
	Other	ha				8.0	120.9
* Presence of damage proxies and proximity with destroyed/damaged asset							
** Sum of all damage classes							

**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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