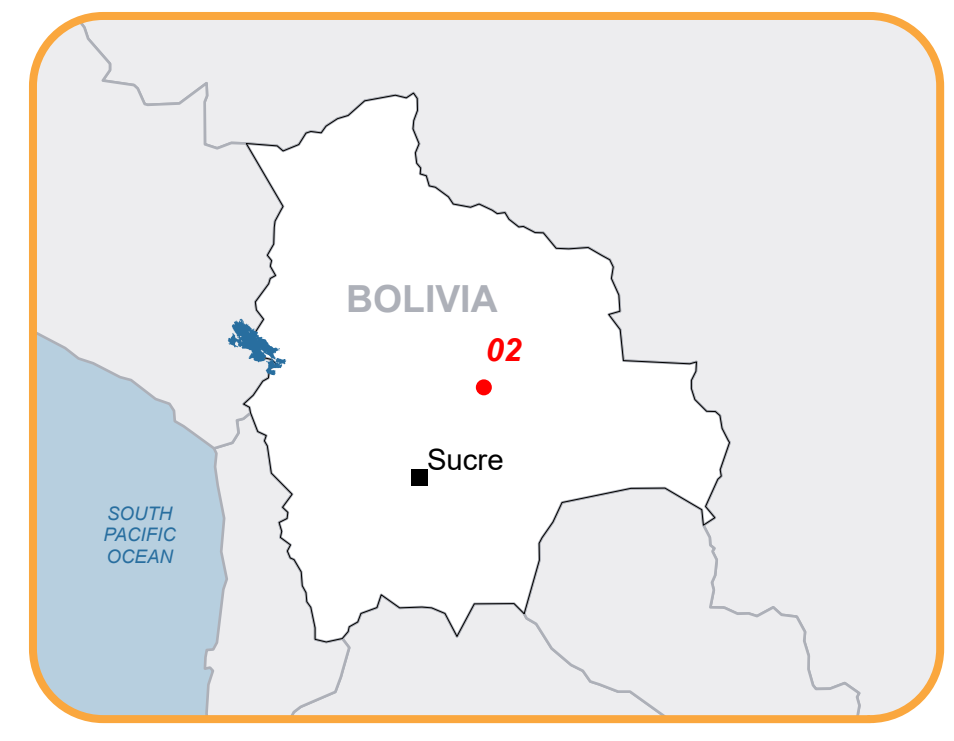




EMSR853 - AOI02  
Flood in Bolivia  
SANTA ROSA DEL SARA

Situation as of 19/12/2025 22:36 UTC  
Delineation MONIT01 - Overview map 01





Flooded area  
EO-based 3,061.1 ha  
Model-based 5,887.1 ha



Potentially affected population  
~ 40

Potentially Affected Built-up and Transportations



Road  
42.4 km



Built-Up  
8.0 ha

Estimated flood depth (m)

Below 0.50

0.50 to 1.00

1.00 to 2.00

2.00 to 4.00

General Information

Area of Interest

Detail map

Image Footprint

Not Analysed

Administrative Boundaries

Province

Municipality

Placenames

Placename

Built-Up Area

Residential

Non residential

School, university and research buildings

Hydrography

Lake, River

Long-distance pipelines or lines

Facilities

Sport and recreation constructions

Transportation

Highway

Main road

Local road

Track

Railway

**Event:** On the 14 December 2025, intense rainfall is reported to have a significantly affected provinces of Andrés Bóñez and Sara, Bolivia. The event caused rivers to overflow. 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: Sentinel-2A/B (2025) (acquired on 21/10/2025 at 14:27 UTC, resolution 10.0 m).  
Post-event image: PAZ satellite image © Hisdesat Servicios Estratégicos S.A., 2025 (acquired on 19/12/2025 at 22:36 UTC, resolution 18.0 m).  
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique.

The flooded area corresponds to the water observed in the most recent satellite imagery, excluding the permanent water.

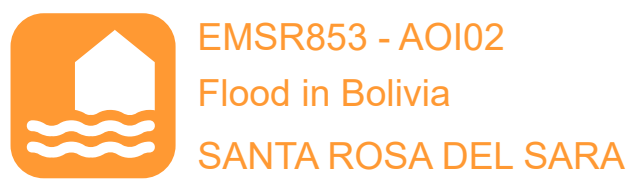
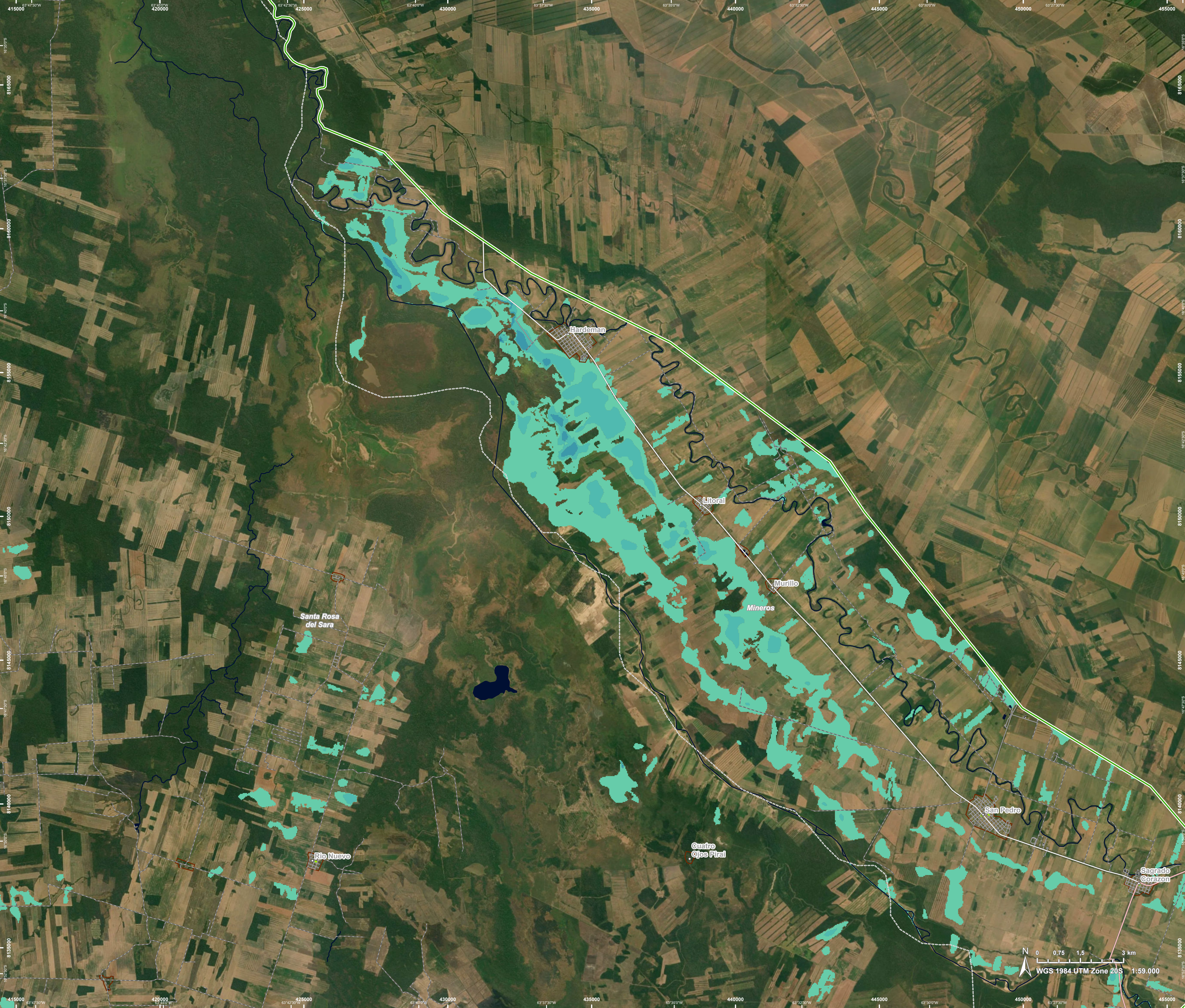
An extrapolated flood extent is generated by integrating observed flood areas with a Digital Terrain Model (DTM). The model's accuracy and spatial coverage depend on DTM resolution and quality, enabling the prediction of potentially flooded areas in regions with limited visibility in imagery, such as urban and forested zones.

Map produced by GAF AG released by e-GEOS on the 20/12/2025.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR853>







**Situation as of 19/12/2025 22:36 UTC**  
Delineation MONIT01 - Detail map 02



- |                                  |                                    |
|----------------------------------|------------------------------------|
| <b>Estimated flood depth (m)</b> | <b>Hydrography</b>                 |
| Below 0.50                       | Lake, River                        |
| 0.50 to 1.00                     | <b>Facilities</b>                  |
| 1.00 to 2.00                     | Sport and recreation constructions |
| 2.00 to 4.00                     | <b>Transportation</b>              |
| <b>General Information</b>       | Highway                            |
| Area of Interest                 | Main road                          |
| <b>Administrative Boundaries</b> | Local road                         |
| Province                         | Track                              |
| <b>Placenames</b>                |                                    |
| Placename                        |                                    |
| <b>Built-Up Area</b>             |                                    |
| Residential                      |                                    |
| Non residential                  |                                    |

**Event:** On the 14 December 2025, intense rainfall is reported to have a significantly affected provinces of Andrés Bóñez and Sara, Bolivia. The event caused rivers to overflow. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and damage assessment emergency mapping.

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An extrapolated flood extent is generated by integrating observed flood areas with a Digital Terrain Model (DTM). The model's accuracy and spatial coverage depend on DTM resolution and quality, enabling the prediction of potentially flooded areas in regions with limited visibility in imagery, such as urban and forested zones.

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PROGRAMME OF THE  
EUROPEAN UNION





Consequences within the AOI

			Unit of measurement	LATEST IMPACT		
				EO-based observation*	Model-based observation	EO- and Model-based observation
Crisis information	Flooded area		ha	3.061,1	5.887,1	8.948,2
	Maximum of all extents**		ha	3.061,1	5.887,1	8.948,2

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 10	~ 30	~ 40	~ 32.000
Assets	Built-up	Residential Buildings	ha	0,9	7,1	8,0	1.646,0
		Industrial buildings	ha	0	0	0	48,8
		School, university and research buildings	ha	0	0	0	0,9
		Cemetery	ha	0	0	0	3,3
	Transportation	Highways	km	0	0,5	0,5	39,5
		Primary Road	km	0	2,5	2,5	27,9
		Secondary Road	km	0	0,3	0,3	67,8
		Local Road	km	0,6	1,7	2,3	358,9
		Cart Track	km	4,0	32,9	36,8	2.099,7
		Long-distance railways	km	0	0	0	17,7
	Facilities	Sport and recreation constructions	ha	0	0	0	16,2
		Long-distance pipelines, communication and electricity lines	km	0	0	0	9,7
	Land use	Shrub and/or herbaceous vegetation association	ha	1.226,9	3.257,4	4.484,3	133.576,4
		Heterogeneous agricultural areas	ha	860,5	904,7	1.765,3	53.497,0
		Inland wetlands	ha	623,8	1.160,9	1.784,7	23.736,9
		Forests	ha	343,5	556,2	899,7	239.836,1
		Other	ha	6,4	7,9	14,3	2.907,6
		Open spaces with little or no vegetation	ha	0	0	0	71,9

\* Corresponds to the water observed in the most recent satellite imagery, excluding permanent water

\*\* Corresponds to the geographic union (and NOT the sum) of all Crisis Information extents.

Disclaimer:

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

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-manual/>

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Data Access:

All data displayed on the map(s), as well as Land Use - Land Cover layer(s), 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.

Estimated Population:

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset. Additional population datasets and analysis are available in the summary table.

Data Sources:

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2025); Wikimapia.org; GeoNames 2015; Global Administrative Areas (2022), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).

Inset Maps: Natural Earth 2023; HydroLAKES 2016 by HydroSHEDS; © EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2021.

Digital Elevation Model:

FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus, 2020).

Access to the portal

