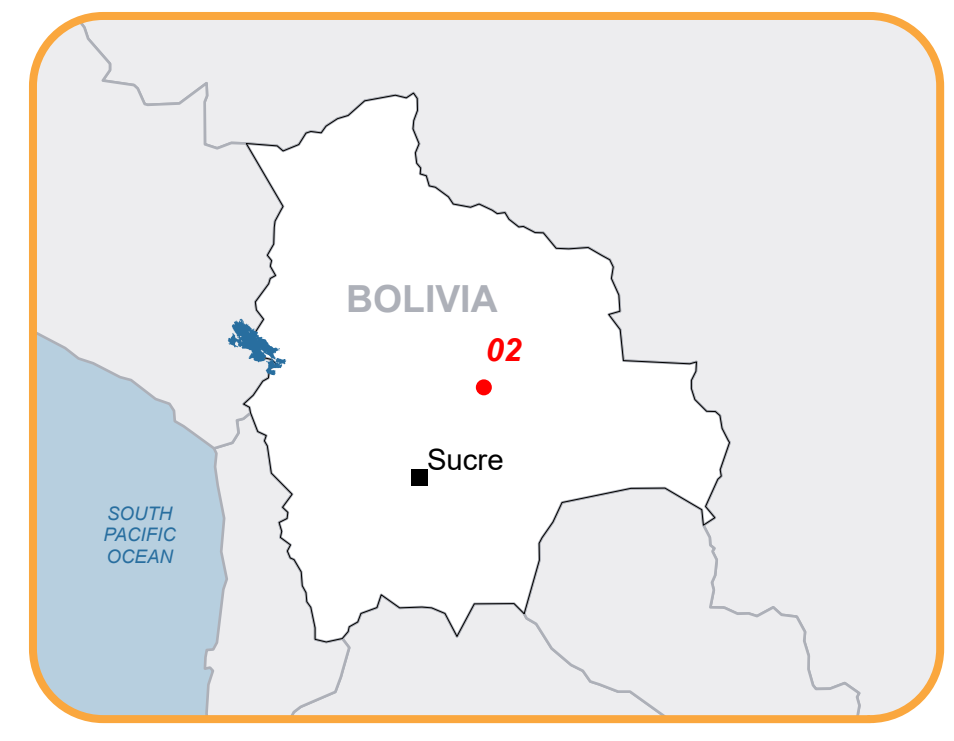




EMSR853 - AOI02
Flood in Bolivia
SANTA ROSA DEL SARA

Situation as of 18/12/2025 09:50 UTC
Delineation - Overview map 01





Flooded area
EO-based 25,508.1 ha
Model-based 43,571.0 ha



Potentially affected population
~ 1,350

Potentially Affected Built-up and Transportations



Road
427.3 km



Railway
0.1 km



Built-Up
86.5 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

Administrative Boundaries

- Province
- Municipality

Placenames

- Placename

Built-Up Area

- Residential

Non residential

- School, university and research buildings

Hydrography

- Lake, River

Facilities

- Long-distance pipelines or lines
- Sport and recreation constructions

Transportation

- Highway
- Main road
- Local road
- Track
- Railway

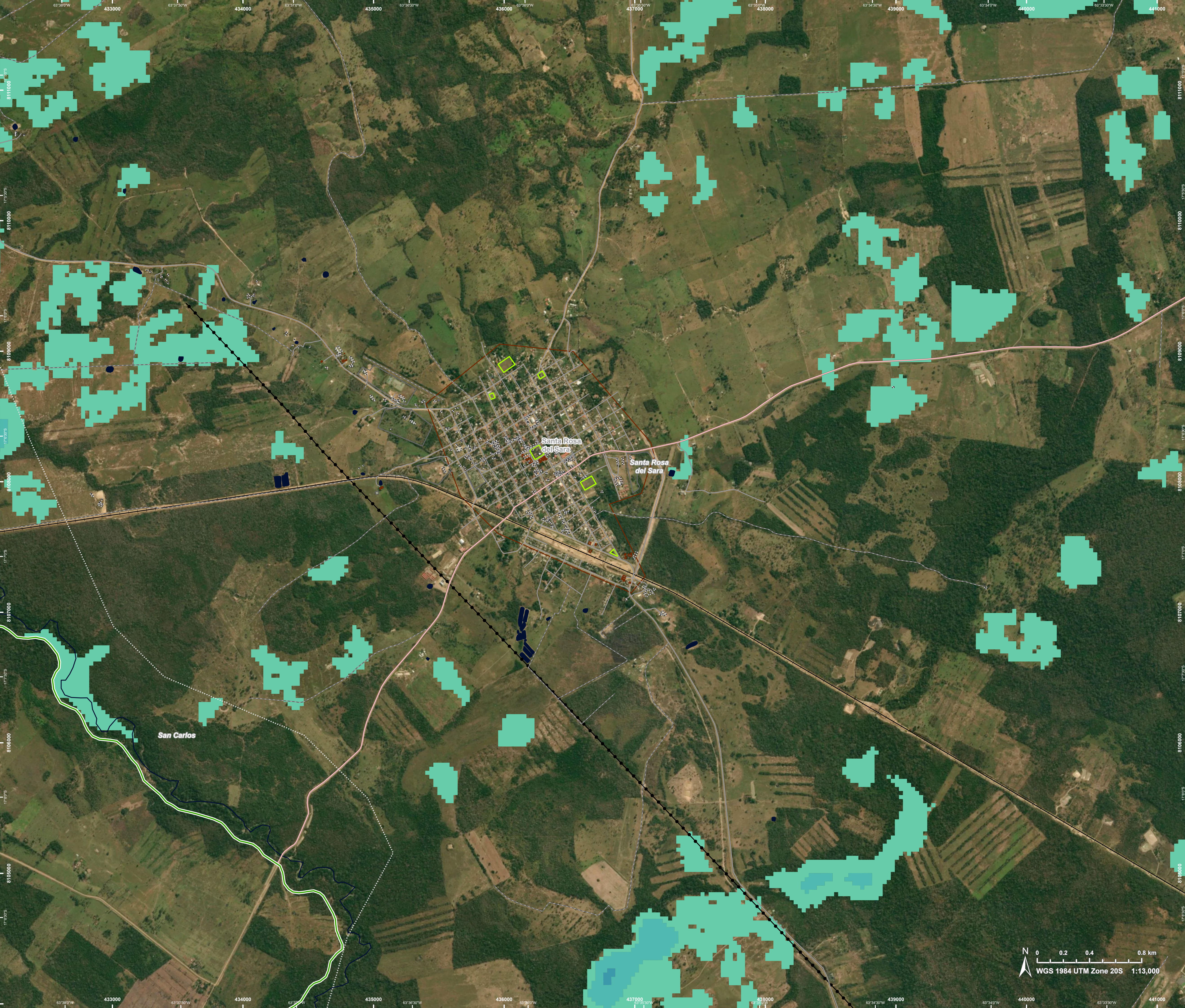
Event: On the 14 December 2025, intense rainfall is reported to have a significantly affected provinces of Andrés Ibáñez and Sara, Bolivia. The event caused rivers to overflow. Copernicus EMS Rapid Mapping is requested to provide initial rough estimation, flood extent and damage assessment emergency 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: Sentinel-1A/B (2025) (acquired on 18/12/2025 at 09:50 UTC, resolution 20 m). COSMO-SkyMed © ASI (2025), distributed by e-GEOS S.p.A. (acquired on 17/12/2025 at 10:22UTC, resolution 30 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.





EMSR853 - AOI02

Flood in Bolivia

SANTA ROSA DEL SARA

Situation as of 18/12/2025 09:50 UTC
Delineation - Detail map 02



Estimated flood depth (m)

- Below 0.50
- 0.50 to 1.00
- 1.00 to 2.00

General Information

- Area of Interest

Administrative Boundaries

- Municipality

Placenames

- Placename

Built-Up Area

- Residential
- Non residential

Hydrography

- Lake, River

Facilities

- Long-distance pipelines or lines

Facilities

- Sport and recreation constructions

Transportation

- Highway
- Local road
- Track
- Railway

Event: On the 14 December 2025, intense rainfall is reported to have a significantly affected provinces of Andrés Ibáñez 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: Sentinel-1A/B (2025) (acquired on 18/12/2025 at 09:50 UTC, resolution 20 m). COSMO-SkyMed © ASI (2025), distributed by e-GEOS S.p.A. (acquired on 17/12/2025 at 10:22UTC, resolution 30 m).
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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 GMV released by e-GEOS on the 18/12/2025.

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





EMSR853 - AOI02
Flood in Bolivia
SANTA ROSA DEL SARA

Situation as of 18/12/2025 09:50 UTC
Delineation - Detail map 03



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

Event: On the 14 December 2025, intense rainfall is reported to have a significantly affected provinces of Andrés Ibáñez 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).
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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	25,508.1	43,571.0	69,079.1
	Maximum of all extents**		ha	25,508.1	43,571.0	69,079.1

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 550	~ 800	~ 1,350	~ 32,000
Assets	Built-up	Residential Buildings	ha	20.9	64.5	85.5	1,646.0
		Industrial buildings	ha	0.1	1.0	1.0	48.8
		School, university and research buildings	ha	0	0	0	0.9
		Cemetery	ha	0	0	0	3.3
	Transportation	Highways	km	0.9	2.5	3.4	39.5
		Primary Road	km	2.3	3.6	5.9	27.9
		Secondary Road	km	2.7	7.4	10.1	67.8
		Local Road	km	10.3	17.3	27.6	358.9
		Cart Track	km	106.0	274.3	380.2	2,099.7
		Long-distance railways	km	0	0.1	0.1	17.7
	Facilities	Sport and recreation constructions	ha	1.0	0.6	1.5	16.2
		Long-distance pipelines, communication and electricity lines	km	0.5	0.5	1.0	9.7
	Land use	Shrub and/or herbaceous vegetation association	ha	11,801.3	22,063.1	33,864.4	133,576.4
		Heterogeneous agricultural areas	ha	6,057.6	5,393.2	11,450.8	53,497.0
		Forests	ha	6,032.2	12,767.1	18,799.3	239,836.1
		Inland wetlands	ha	1,607.2	3,334.6	4,941.8	23,736.9
		Other	ha	9.7	13.1	22.7	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

