





EMSR853 - AOI07

Flood in Bolivia

WARNES

Situation as of 17/12/2025 10:22 UTC
Delineation - Overview map 01





Flooded area

EO-based 13.9 ha

Model-based 3.4 ha



Potentially affected population

~ Not available


Potentially Affected Built-up and Transportations




Road


0.5 km


Estimated flood depth (m)

 Below 0.50


General Information

 Area of Interest


 Image Footprint

 Not Analysed


Administrative Boundaries


 Province

Placenames

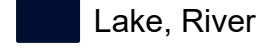
 Placename

Built-Up Area

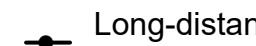
 Residential


 Non residential


Hydrography

 Lake, River


Facilities


 Long-distance pipelines or lines


 Sport and recreation constructions

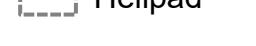
 Dam

Transportation

 Main road

 Local road

 Track

 Helipad

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 14/08/2025 at 14:17 UTC, resolution 10.0 m).

Post-event image: COSMO-SkyMed © ASI (2025), distributed by e-GEOS S.p.A. (acquired on 17/12/2025 at 10:22 UTC, resolution 30.0 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.

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	13.9	3.4	17.3
	Maximum of all extents**		ha	13.9	3.4	17.3

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	NA		#VALUE!	~ 6,200
Assets	Built-up	Residential Buildings	ha	0	0	0	434.7
		Industrial buildings	ha	0	0	0	41.8
		Cemetery	ha	0	0	0	2.1
	Transportation	Helipad	ha	0	0	0	0.02
		Primary Road	km	0	0	0	0.5
		Secondary Road	km	0	0	0	25.6
		Local Road	km	0	0	0	203.7
		Cart Track	km	0.2	0.3	0.5	853.9
	Facilities	Dams	ha	0	0	0	1.3
		Sport and recreation constructions	ha	0	0	0	2.7
		Long-distance pipelines, communication and electricity lines	km	0	0	0	78.7
	Land use	Shrub and/or herbaceous vegetation association	ha	11.2	2.6	13.8	13,463.5
		Forests	ha	2.7	0.8	3.5	13,164.7
		Heterogeneous agricultural areas	ha	0	0	0	2,340.5
		Open spaces with little or no vegetation	ha	0	0	0	53.0
		Inland wetlands	ha	0	0	0	114.0
		Other	ha	0	0	0	90.2

* 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;
Corine Land Cover (CLC) 2018; © EuroGeographics, © TurkStat. Source: European Commission – Eurostat/GISCO, 2021.
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).

