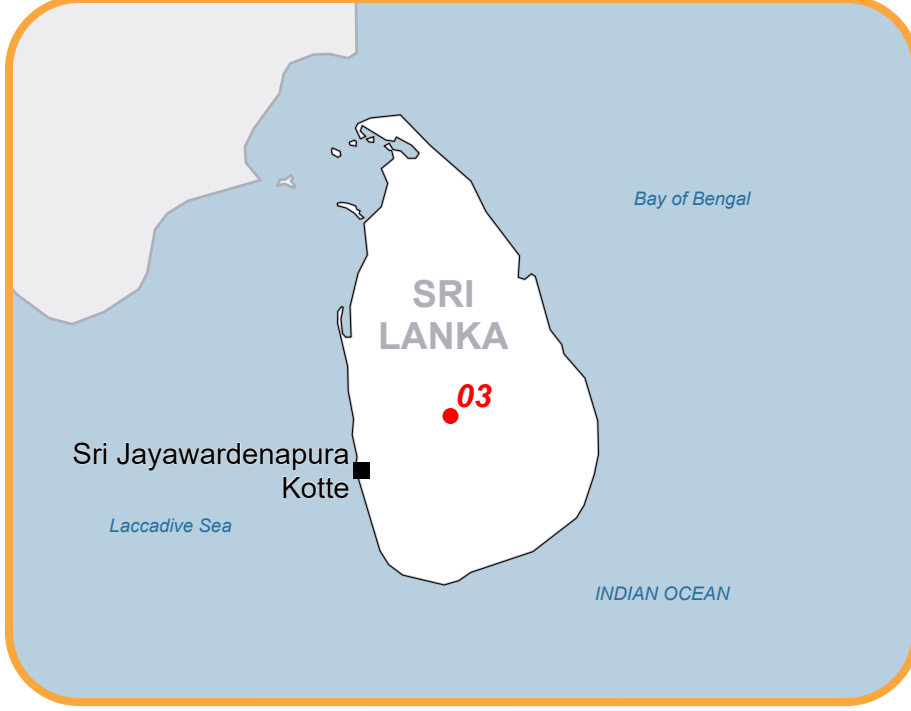




EMSR851 - AOI03  
Flood in Sri Lanka  
MAHAVELI GANGA RIVER

Situation as of 03/12/2025 05:29 UTC

Delineation MONIT01 - Overview map 01



Blocked road / interruption  
EO-based 1 No.  
Landslide  
EO-based 0.2 ha  
Flooded area  
EO-based 85.6 ha  
Model-based 287.4 ha



Potentially affected  
population  
~ 7,800

Potentially Affected Built-up and Transportations



Built-Up  
43.7 ha



Road  
16.7 km



Railway  
1.7 km

Estimated flood depth (m)

Below 0.50  
0.50 to 1.00  
1.00 to 2.00  
2.00 to 4.00  
Above 4.00

Crisis Information

Flood trace  
Landslide  
Blocked road / interruption

General Information

Area of Interest  
Detail map  
Not Analysed

Administrative Boundaries

Province

Placenames

Placename

Built-Up Area

Residential  
Non residential  
School, university and research buildings  
Hospital or institutional care buildings  
Military

Hydrography

Lake, River  
Long-distance pipelines or lines  
Sport and recreation constructions  
Dam

Transportation

Highway  
Main road  
Local road  
Track  
Railway

**Event:** On the 27 November 2025, Tropical Cyclone DITWAH-25 formed over Sri Lanka. The event has caused heavy damage across the country, with floods, landslides and mudslides reported. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: WorldView-2 © Vantor (2024), provided by European Space Imaging (acquired on 24/01/2024 at 05:18 UTC, resolution 1.6 m).  
Post-event image: Legion © Vantor (2025), provided by European Space Imaging (acquired on 03/12/2025 at 05:29 UTC, resolution 1.6 m). This image is used as background image.  
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 by means of visual interpretation.

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 e-GEOS released by e-GEOS on the 03/12/2025.

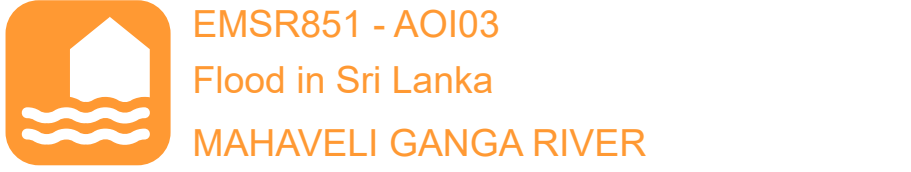
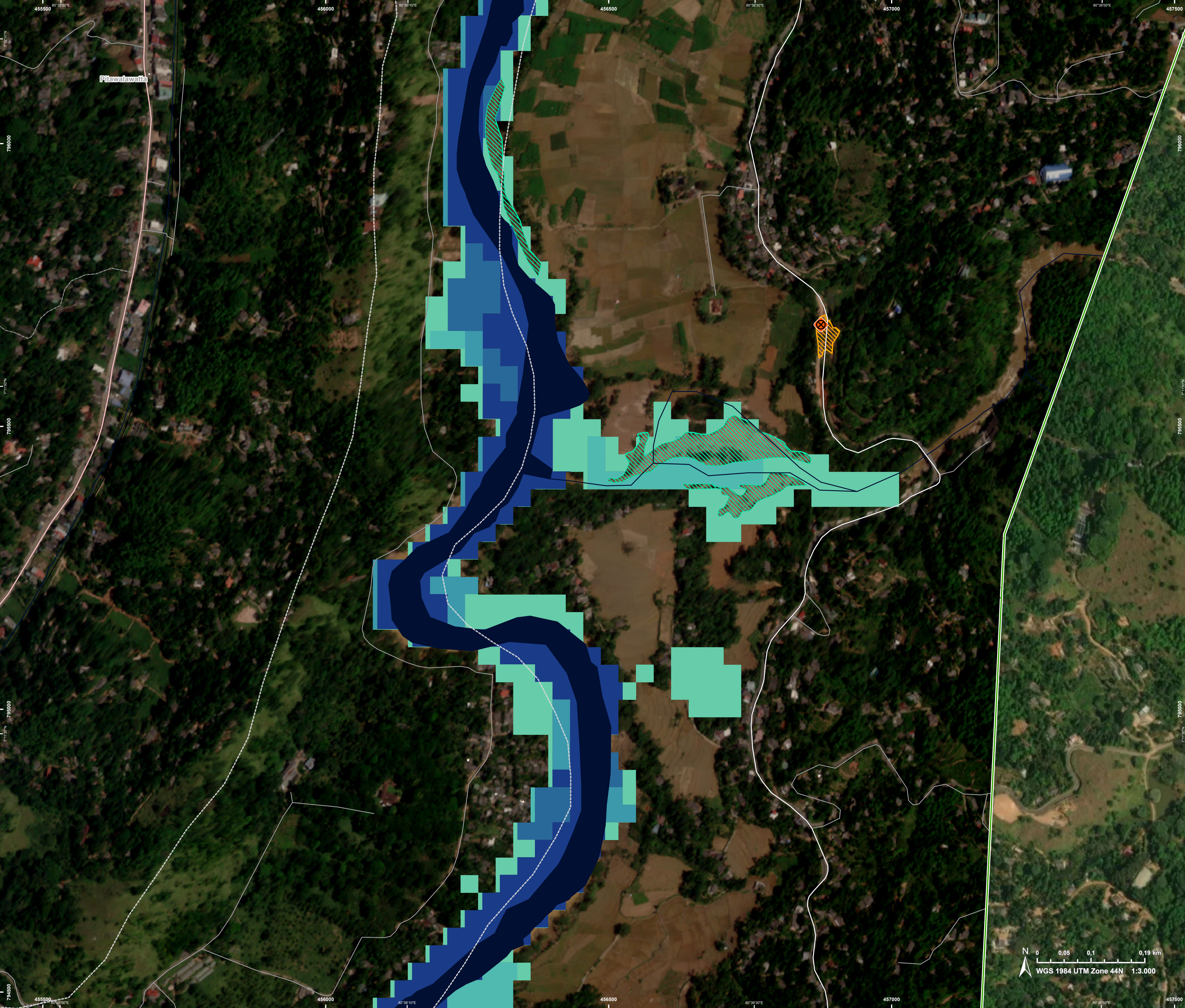
Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR851>



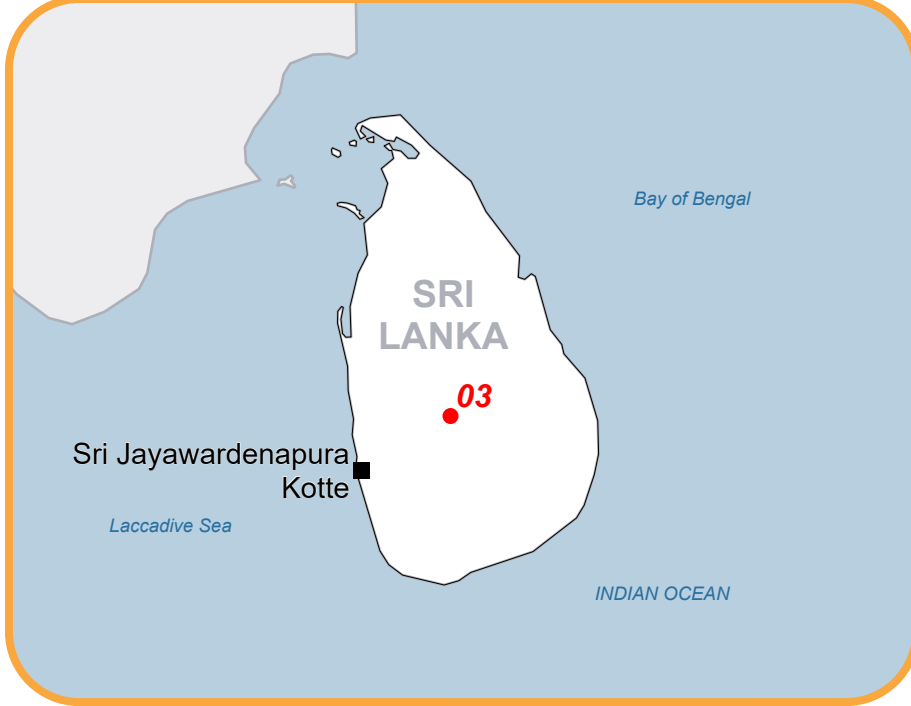
PROGRAMME OF THE  
EUROPEAN UNION







**Situation as of 03/12/2025 05:29 UTC**  
Delineation MONIT01 - Detail map 02



- Estimated flood depth (m)**
- Below 0.50
  - 0.50 to 1.00
  - 1.00 to 2.00
  - 2.00 to 4.00
  - Above 4.00
- Crisis Information**
- Flood trace
  - Landslide
  - Blocked road / interruption
- General Information**
- Area of Interest
- Administrative Boundaries**
- Province
- Placenames**
- Placename
- Hydrography**
- Lake, River
- Transportation**
- Highway
  - Main road
  - Local road
  - Track
  - Railway

**Event:** On the 27 November 2025, Tropical Cyclone DITWAH-25 formed over Sri Lanka. The event has caused heavy damage across the country, with floods, landslides and mudslides reported. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

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Post-event image: Legion © Vantor (2025), provided by European Space Imaging (acquired on 03/12/2025 at 05:29 UTC, resolution 1.6 m). This image is used as background image.  
All images are provided under C PERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image by means of visual interpretation.

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

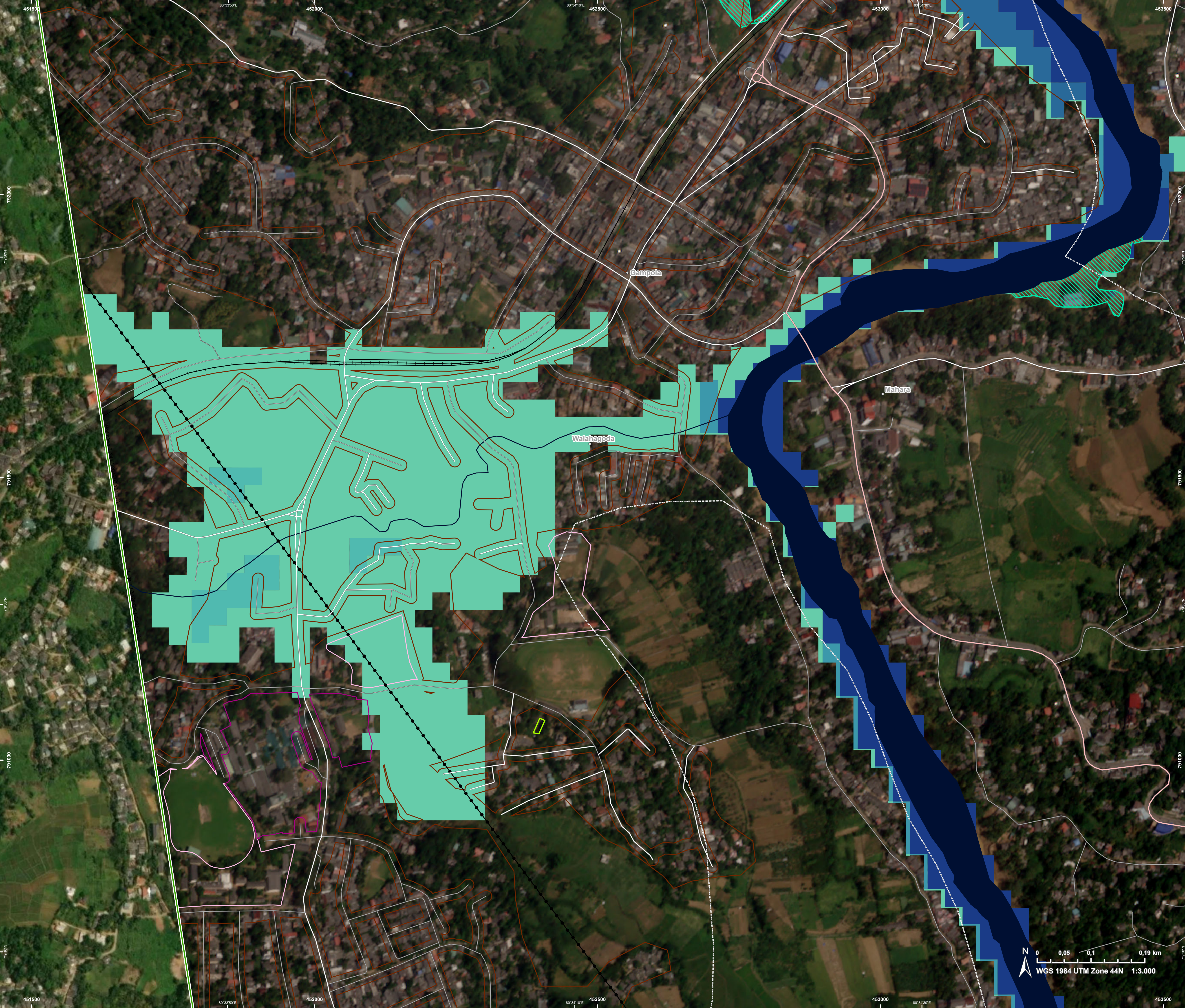
An extrapolated flood extent is generated by integrating observed flood areas with a Digital Terrain Model (DTM). The model's accuracy and spatial coverage depend on DTM resolution and quality, enabling the prediction of potentially flooded areas in regions with limited visibility in imagery, such as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


Map produced by e-GEOS released by e-GEOS on the 03/12/2025.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR851>







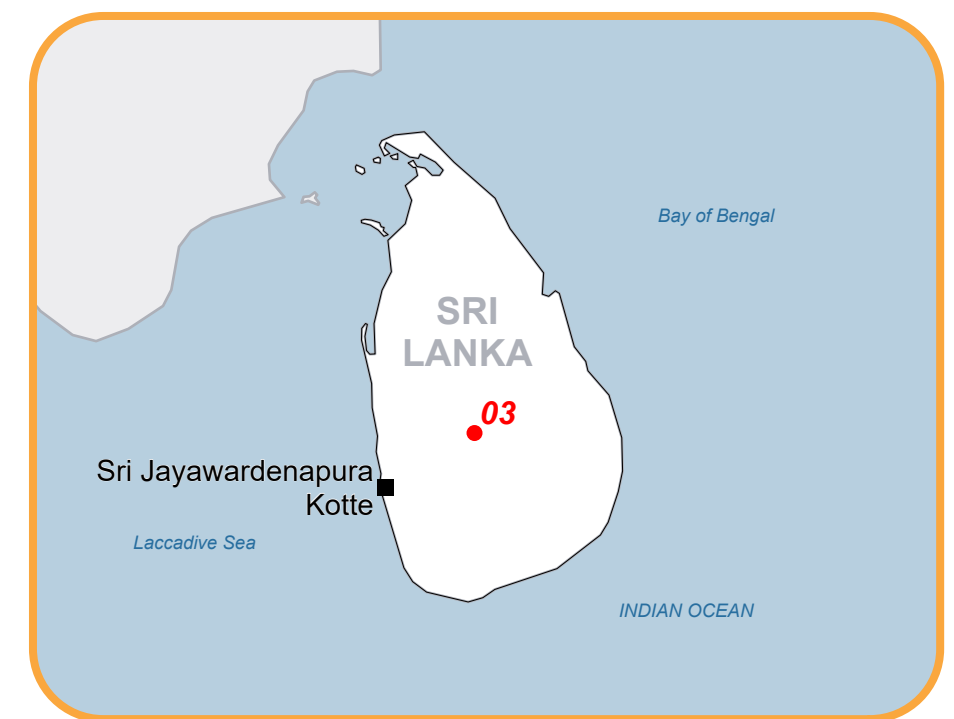


EMSR851 - AOI03

Flood in Sri Lanka

MAHAVELI GANGA RIVER

Situation as of 03/12/2025 05:29 UTC  
Delineation MONIT01 - Detail map 03



**Estimated flood depth (m)**

- Below 0.50
- 0.50 to 1.00
- 1.00 to 2.00
- 2.00 to 4.00
- Above 4.00

**Built-Up Area**

- Residential
- School, university and research buildings
- Hospital or institutional care buildings

**Crisis Information**

- Flood trace

**General Information**

- Area of Interest

**Administrative Boundaries**

- Province

**Placenames**

- Placename

**Hydrography**

- Lake, River
- Long-distance pipelines or lines
- Sport and recreation constructions

**Transportation**

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

**Event:** On the 27 November 2025, Tropical Cyclone DITWAH-25 formed over Sri Lanka. The event has caused heavy damage across the country, with floods, landslides and mudslides reported. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: WorldView-2 © Vantor (2024), provided by European Space Imaging (acquired on 24/01/2024 at 05:18 UTC, resolution 1.6 m).  
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The thematic layer has been derived from post-event satellite image by means of visual interpretation.

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 e-GEOS released by e-GEOS on the 03/12/2025.

Details on this activation and service conditions available through the QR code or at the link: <https://mapping.emergency.copernicus.eu/activations/EMSR851>





Consequences within the AOI

			Unit of measurement	LATEST IMPACT		
				EO-based observation*	Model-based observation	EO- and Model-based observation
Crisis information	Landslide		ha	0,2	0	0,2
	Flood trace		ha	9,4	0	9,4
	Flooded area		ha	85,6	287,4	373,0
	Blocked road / interruption		No.	1	0	1
	Maximum of all extents**		ha	95,2	287,4	382,6

				POTENTIALLY AFFECTED		TOTAL POTENTIALLY AFFECTED	Total in AOI
Estimated population		Inhabitants	No.	~ 2.200	~ 5.600	~ 7800,0	~ 200.000
Assets	Built-up	Residential Buildings	ha	15,5	23,2	38,6	395,6
		Office buildings	ha	0,1	0,9	1,0	4,4
		Wholesale and retail trade buildings	ha	0	0	0	0,4
		Industrial buildings	ha	0	0	0	3,8
		School, university and research buildings	ha	0,2	3,7	4,0	141,7
		Hospital or institutional care buildings	ha	0	0,1	0,1	4,3
		Military	ha	0	0	0	4,1
		Cemetery	ha	0	0	0	0,4
	Transportation	Highways	km	0,4	1,6	2,0	34,1
		Primary Road	km	1,7	1,3	3,0	24,2
		Secondary Road	km	0,4	1,0	1,4	46,6
		Local Road	km	1,7	7,9	9,6	356,0
		Cart Track	km	0,1	0,6	0,7	26,0
		Long-distance railways	km	0,1	1,6	1,7	24,1
	Facilities	Dams	ha	0	0	0	0,2
		Sport and recreation constructions	ha	1,2	3,9	5,2	80,6
		Long-distance pipelines, communication and electricity lines	km	0,5	0,8	1,3	4,5
	Land use	Forests	ha	68,7	211,4	280,0	5.458,5
		Other	ha	21,3	57,3	78,7	1.441,3
		Heterogeneous agricultural areas	ha	4,7	14,1	18,8	163,2
		Inland wetlands	ha	0,3	1,6	1,9	8,4
		Shrub and/or herbaceous vegetation association	ha	0,1	3,1	3,2	19,2

\* 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;  
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

