

Malung - SWEDEN

Flood - Situation as of 13/05/2018

Delineation Map - MONIT05

Cartographic Information

1:52000

Full color ISO A1, medium resolution (200 dpi)

Grid: WGS 1984 UTM Zone 33N map coordinate system
Tick marks: WGS 84 geographical coordinate system

Legend

Crisis Information

- Flooded Area (13/05/2018 17:27 UTC)
- Previous Flooded Area (10/05/2018 05:31 UTC)

General Information

- Area of Interest
- Image Footprint
- Not Analysed - No data
- Placename

Administrative boundaries

- Province

Built-Up Area

- Built-Up Area

Hydrography

- River
- Stream
- Lake
- River

Physiography

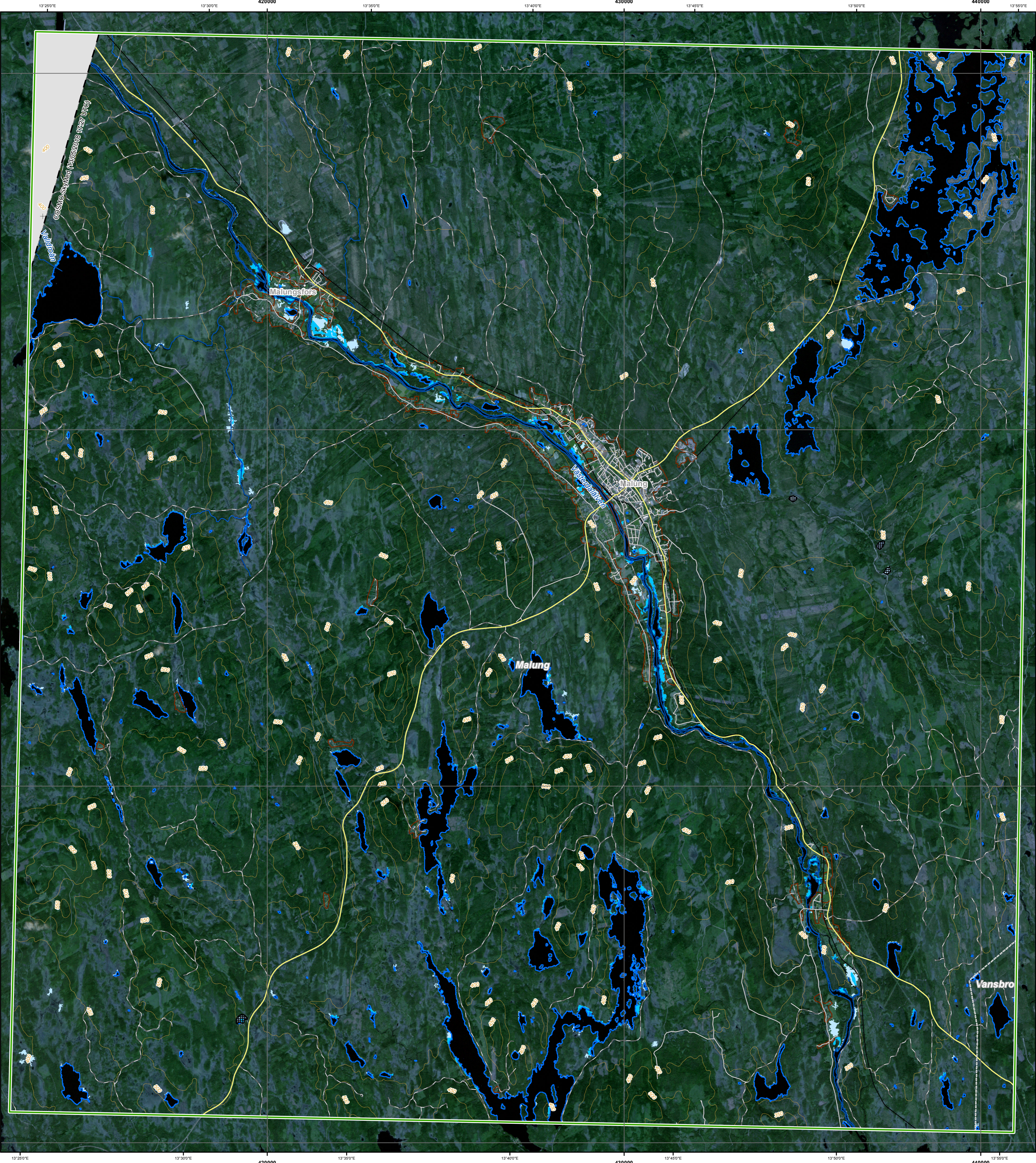
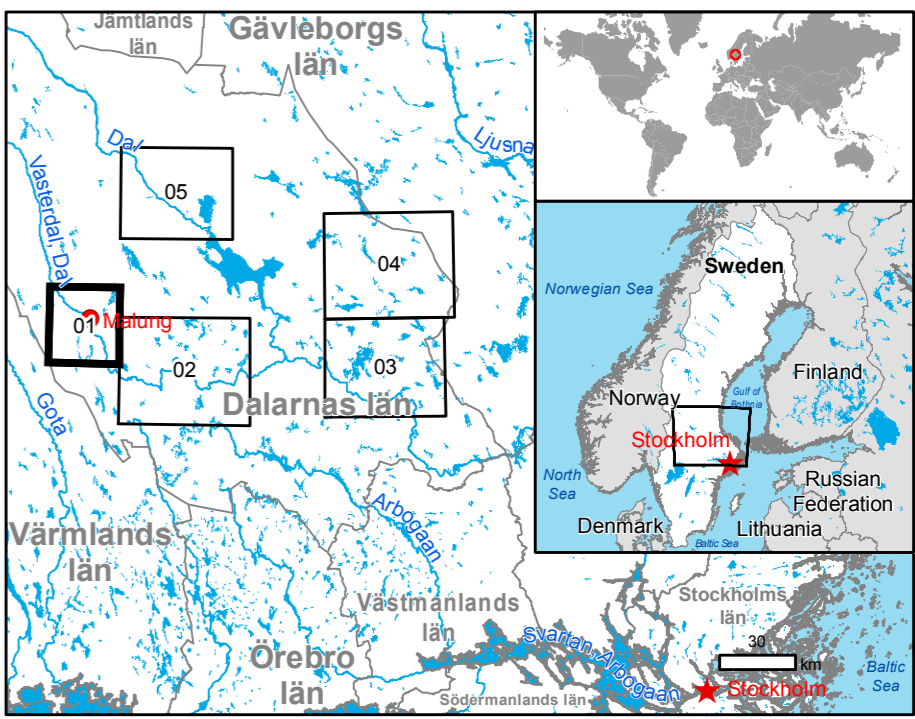
- Elevation
- Contour (m)

Facilities

- Dam
- Construction for mining or extraction
- Transportation
- Primary Road
- Local Road
- Cart Track
- Long-distance railway

Consequences within the AOI

	Unit of measurement	Affected	Total in AOI
Flooded area	ha		304.0
Estimated population	Number of inhabitants	92	6755
Settlements	Residential	ha	13.0
	Multi-functional	ha	0.0
			29.5
Transportation	Primary Road	km	0.1
	Local Road	km	0.2
	Cart Track	km	0.3
	Long-distance railway	km	0.0
Facilities	Dam	No.	3
	Construction for mining or extraction	ha	0.8
			14.2



Map Information

Deep snow has accumulated in Sweden during the winter and is now producing floods in the region of Dalarna during its melt. The floods are estimated to reach its maximum in the coming days and flooded rivers could affect residential areas.

The present map shows the flood delineation in the area of Malung (Sweden). The thematic layer has been derived from post-event satellite image using a semi-automatic approach. The thematic analysis is limited due to presumed snow and/or ice cover in the area, this means that many flood waters do not appear in SAR image. The estimated geometric accuracy is 5 m CE90 or better, from native positional accuracy of the background satellite image.

Data Sources

Pre-event image: Sentinel 2B (2017) (acquired on 26/08/2017 at 10:40 UTC, GSD 10 m, approx. 2.8% cloud coverage in AOI, 9.4° off-nadir angle) provided under COPENICUS by the European Union and ESA, all rights reserved.
Post-event image: COSMO-SkyMed © ASI (2018), distributed by e-GEOS S.p.A. (acquired on 13/05/2018 at 17:27 UTC, GSD 5 m), provided under COPENICUS by the European Union and ESA, all rights reserved.
Sentinel-1A (2018) (acquired on 10/05/2018 at 05:31 UTC, GSD 10 m), provided under COPENICUS by the European Union and ESA.

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, refined by the producer.
Inset maps: JRC 2013, © EuroGeographics, Natural Earth 2012, CCM River DB © EUJRC2007, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2015 http://data.europa.eu/89h/jrc-ghs-ghs_pop_gpw4_globe_r2015a
Digital Elevation Model: EU-DEM (25 m)

Disclaimer

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Map produced by e-GEOS released by e-GEOS (ODO).

For the latest version of this map and related products visit <http://emergency.copernicus.eu/EMSR280>

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Relevant date records

Event	21/04/2018	Situation as of	13/05/2018
Activation	21/04/2018	Map production	27/06/2018