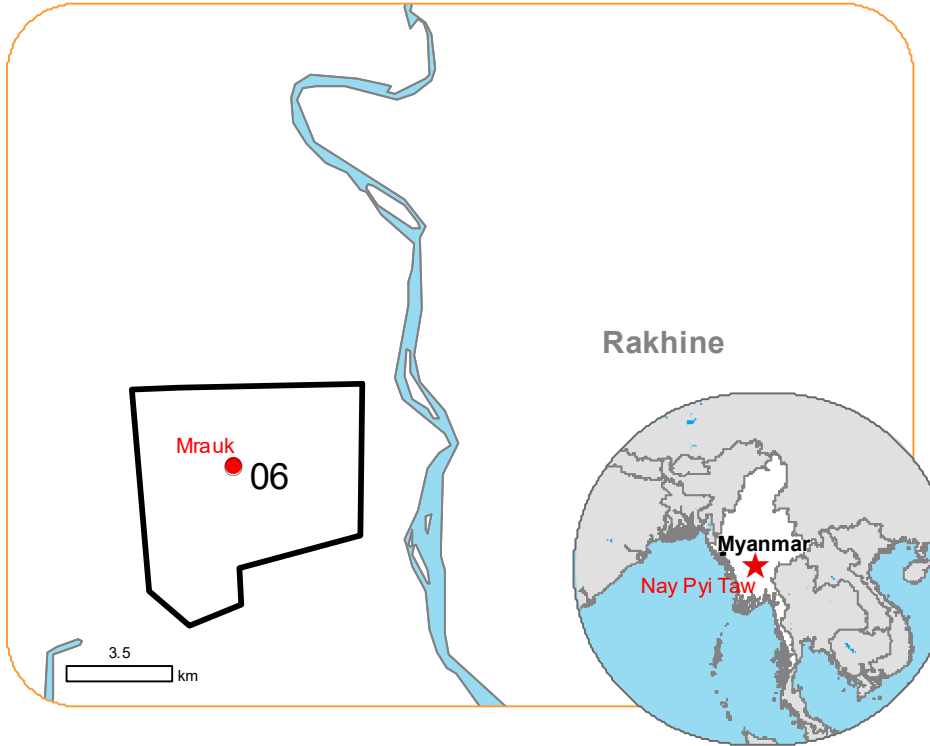


Situation as of 14/05/2023 23:36 UTC
Delineation - Overview map 01




 **Flooded area** 565.6 ha
 **Potentially affected population** ~ 500

Potentially Affected Built-up and Transportations


 **Built-Up**
1 No.

 **Road**
0.4 km

Crisis Information


 **Flooded Area**

 **Area of Interest**

 **Detail map**

Built-Up Area

 **Residential**


 **School, university and research buildings**

Hydrography

 **River**

 **Stream**


 **Lake**


 **Land Subject to Inundation**

 **Reservoir**

 **River**


Facilities

 **Long-distance pipelines or lines**

 **Sport and recreation constructions**

Transportation

 **Main road**

 **Local road**

 **Track**

 **Helipad**

All data displayed on the map(s), as well as the Land Use -Land Cover layer, is available in the Crisis Information Package and the Base Layer Package (for reference data). All products and data are also available for download on the activation webpage.

Event:

Tropical cyclone MOCHA-23 formed over the southern Bay of Bengal on 11 May with predicted category 3 and winds up to 204km/h. It is expected to landfall on Sunday in Sittwe city with maximum sustained winds up to 165km/h. Exposed population in category 1 or higher up to 2.6 million people.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2023) (acquired on 08/05/2023 at 04:32 UTC, resolution 10.0 m). This image is used as background image.
Post-event image: COSMO-SkyMed © ASI (2023), distributed by e-GEOS S.p.A. (acquired on 14/05/2023 at 23:36 UTC, resolution 3.0 m).
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Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer. Copernicus Global Land Service: Land Cover (2019).
Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2022
https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php

Digital Elevation Model: SRTM (30 m) (NASA/USGS)

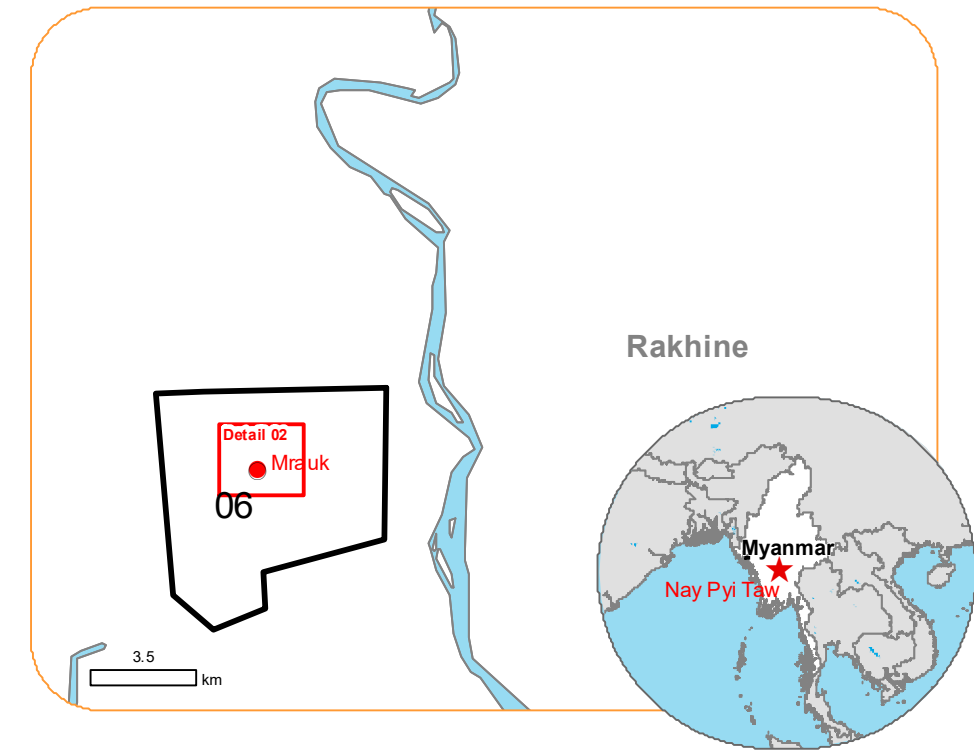
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Please be aware that the thematic accuracy might be lower in urban and forested areas due to inherent limitations of the SAR analysis technique. The scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 6.0 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 576 sq. m.

Map produced by GAF AG released by e-GEOS on the 15/05/2023.

Details on this activation and service conditions available through the QR code or at the link:
<https://emergency.copernicus.eu/EMSR661>



Delineation - Detail map 02



 Flooded area 11.3 ha
(2% of total in AOI)  Potentially affected
population
~ 100

Potentially Affected Built-up and Transportations

 Built-Up
1 No.
(100% of total affected)

Crisis Information

 Flooded Area

Placenames

- Placename

Built-Up Area

- School, university and research buildings

☒ Unclassified

Hydrography

— River

- Stream


☐ Lake

 Land Subject

☐ Reservoir

☐ River

☐ Sport and recreation

 constructions

Transportation

== Main road

— Local road

— Track

☐ Helipad

All data displayed on the map(s), as well as the Land Use -Land Cover layer, is available in the Crisis Information Package and the Base Layer Package (for reference data). All products and data are also available for download on the activation webpage.

Event:

Tropical cyclone MOCHA-23 formed over the southern Bay of Bengal on 11 May with predicted category 3 and winds up to 204km/h. It is expected to landfall on Sunday in Sittwe city with maximum sustained winds up to 165km/h. Exposed population in category 1 or higher up to 2.6 million people.

Data sources and analysis: Pre-event image: Sentinel-2A/B (2023) (acquired on 08/05/2023 at 04:32 UTC, resolution 10.0 m). This image is used as background image.

Post-event image: COSMO-SkyMed © ASI (2023), distributed by e-GEOS S.p.A. (acquired on 14/05/2023 at 23:36 UTC, resolution 3.0 m). All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

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Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

Population data: GHS Population Grid © European Commission, 2022
https://ghsl.jrc.ec.europa.eu/ghs_pop2022.php

Digital Elevation Model: SRTM (90 m) or (30 m) (NASA/USGS) or COP-DEM-EEA-10-R product © DLR e.V. (2014-2018) and © Airbus Defence and Space GmbH (2020) 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 scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 6.0 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 576 sq.m.

Map produced by GAF AG released by e-GEOS on the 15/05/2023.

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EMSR661 AOI: 06 Mrauk Delineation

Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area		ha		565.6
Estimated population		Number of inhabitants	~ 500	~ 68,000
Built-up	School, university and research buildings	No.	0	2
	Unclassified	No.	1	246
Transportation	Helipad	ha	0.0	0.0
	Primary Road	km	0.0	7.8
	Local Road	km	0.0	42.7
	Cart Track	km	0.3	31.2
Facilities	Sport and recreation constructions	ha	0.0	1.2
	Long-distance pipelines, communication and electricity lines	km	0.0	2.1
Land use	Heterogeneous agricultural areas	ha	559.3	3,270.2
	Forests	ha	3.0	1,104.0
	Other	ha	1.3	168.7
	Inland wetlands	ha	1.0	57.1
	Shrub and/or herbaceous vegetation association	ha	1.0	28.3

Disclaimer:

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

<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>

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