

Flood trace 117.1 ha
Flooded area 23.7 ha
Potentially affected population ~ 1000

Potentially Affected Built-up and Transportations
Road 3.2 km
Built-Up 2,066 No.

- | Crisis Information | General Information |
|--------------------------------------------|----------------------------|
| Flooded Area | Area of Interest |
| Flood trace | Detail map |
| Built-Up Grading | Not Analysed |
| Residential Building, Destroyed | Hydrography |
| Residential Building, Damaged | Coastline |
| Residential Building, Possibly damaged | River |
| Non-residential Building, Destroyed | Stream |
| Non residential Building, Damaged | Lake |
| Non-residential Building, Possibly damaged | Land Subject to Inundation |
| Transportation Grading | |
| Road, Destroyed | |
| Road, Possibly damaged | |
| No visible damage | |
| Main road, No visible damage | |
| Local road, No visible damage | |
| Track, No visible damage | |
| Airfield runway, No visible damage | |
| Airfield and Heliport, No visible damage | |

Event:
Tropical cyclone MOCHA-23 formed over the southern Bay of Bengal on 11th of May with predicted category 3 and winds up to 204km/h. It is expected to landfall on Sunday 14th of May in Sittwe city with maximum sustained winds up to 165km/h. Exposed population can be up to 2.6 million people.

Data sources and analysis: Pre-event image: Pleiades (2023) (acquired on 28/01/2023 at 04:25 UTC, resolution 0.5 m).
Post-event image: Pleiades Neo (2023) (acquired on 17/05/2023 at 04:36 UTC, resolution 0.5 m).
This image is used as background image.
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Base vector layers: OpenStreetMap © OpenStreetMap contributors (current year), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019).

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

The thematic layer has been derived from post-event satellite image using a semi-automatic approach
The scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 2.5 m or better, from native positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 100 sq m.

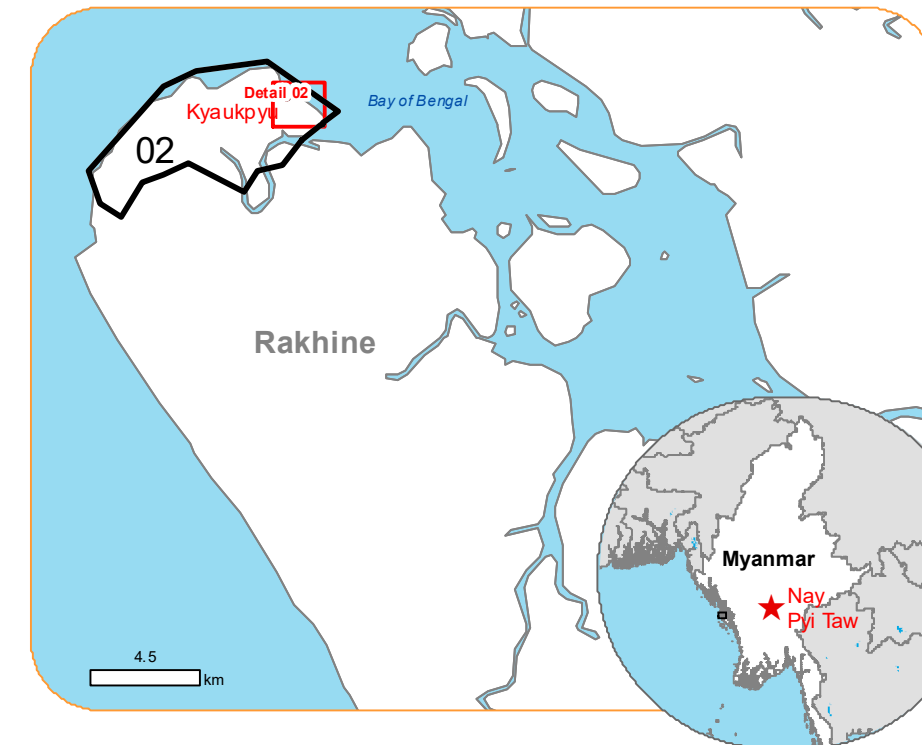
Map produced by IABG released by e-GEOS on the 19/05/2023.

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



Situation as of 17/05/2023 04:36 UTC

Grading - Detail map 02



Flood trace 37.5 ha
32.0% of total in AOI

Potentially affected population
~ 600

Potentially Affected Built-up and Transportations

Road
3.2 km
100.0% of potentially affected

Built-Up
843 No.
40.8% of potentially affected

Crisis Information

Flood trace

Built-Up Grading

- Residential Building, Destroyed
- Residential Building, Damaged
- Residential Building, Possibly damaged
- Non-residential Building, Destroyed
- Non residential Building, Damaged
- Non-residential Building, Possibly damaged

Transportation Grading

- Road, Destroyed
- Road, Possibly damaged
- No visible damage**
- Main road, No visible damage
- Local road, No visible damage
- Track, No visible damage

General Information

Area of Interest

Not Analysed

Hydrography

Coastline

Lake

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.

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EMSR661 AOI: 02 Kyaukpyu Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flood trace		ha						117.1
Flooded area		ha						23.7
Estimated population	Number of inhabitants						~ 1,000	~ 70,000
Built-up	Residential Buildings	ha		0.0	0.0	0.0	0.0	789.8
	Industrial buildings	ha		0.0	0.0	0.0	0.0	40.8
	Residential Buildings	No.		146	425	1,192	1,763	1,763
	Building point	No.		6	117	180	303	303
	Unclassified	No.		0	0	0	0	17
Transportation	Airfield runways	ha		0.0	0.0	0.0	0.0	55.3
	Airfield runways	km		0.0	0.0	0.0	0.0	2.4
	Primary Road	km		0.0	0.0	0.0	0.0	11.2
	Local Road	km		1.7	0.0	0.6	2.2	62.0
	Cart Track	km		0.4	0.0	0.6	1.0	33.6
Facilities	Power plant constructions	ha		0.0	0.0	0.0	0.0	6.7
	Long-distance pipelines, communication and electricity lines	km		0.0	0.0	0.0	0.0	1.4
			Very high damage	High damage	Moderate damage	Negligible to slight damage	Total affected**	Total in AOI
Land use	Heterogeneous agricultural areas	ha	NA	NA	NA	NA	109.1	1,569.1
	Forests	ha	NA	NA	NA	NA	15.0	832.7
	Inland wetlands	ha	NA	NA	NA	NA	7.8	156.4
	Shrub and/or herbaceous vegetation association	ha	NA	NA	NA	NA	7.1	148.2
	Other	ha	NA	NA	NA	NA	1.7	691.4
	Open spaces with little or no vegetation	ha	NA	NA	NA	NA	0.0	2.3
<p>* Presence of damage proxies and proximity with destroyed/damaged asset</p> <p>** Sum of all damage classes</p>								

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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