



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



Flooded area 144.6 ha
Potentially affected population ~ 1100

Potentially Affected Built-up and Transportations

Road 1.3 km
Built-Up 6.1 ha
Power 1.5 ha
Facilities 0.0 km 1.5 ha

Crisis Information
Flooded Area
General Information
Area of Interest
Image Footprint
Built-Up Area
Residential
Non residential
Hydrography
Coastline
River
Stream
Lake
Land Subject to Inundation
Facilities
Long-distance pipelines or lines
Power plant
Dam
Transportation
Main road
Local road
Track
Airfield runway
Airfield
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 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: Sentinel-2A/B (2021) (acquired on 26/03/2023 at 04:05 UTC, resolution 10.0 m). Post-event image: COSMO-SkyMed © ASI (year of acquisition), distributed by e-GEOS S.p.A. (acquired on 14/05/2023 at 23:36 UTC, resolution 3.0 m). This image is used as background image. All images are provided under COPENICUS by the European Union and ESA, all rights reserved.

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 1:15000. 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 IABG 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>

EMSR661 AOI: 02 Kyaukpyu Delineation

Consequences within the AOI				
		Unit of measurement	Affected	Total in AOI
Flooded area		ha		144.6
Estimated population		Number of inhabitants	~ 1,100	~ 89,000
Built-up	Residential Buildings	ha	6.1	857.6
	Industrial buildings	ha	0.0	67.4
Transportation	Airfield runways	ha	0.0	55.3
	Airfield runways	km	0.0	2.4
	Primary Road	km	0.0	24.3
	Local Road	km	0.9	177.5
	Cart Track	km	0.4	89.4
Facilities	Dams	ha	0.0	1.0
	Power plant constructions	ha	1.5	6.7
	Long-distance pipelines, communication and electricity lines	km	0.0	13.0
Land use	Heterogeneous agricultural areas	ha	94.7	6,127.6
	Inland wetlands	ha	18.6	2,936.4
	Forests	ha	16.4	11,148.1
	Shrub and/or herbaceous vegetation association	ha	12.3	586.7
	Other	ha	2.6	3,430.4
	Open spaces with little or no vegetation	ha	0.0	40.0

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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