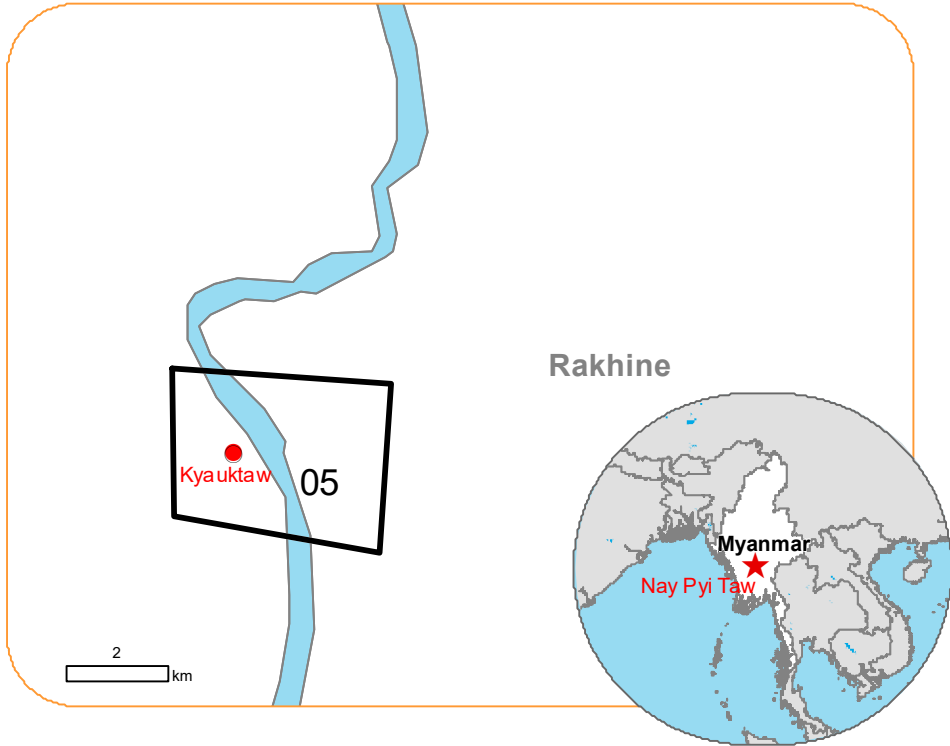




Situation as of 16/05/2023 04:43 UTC
Grading - Overview map 01



Flood trace 434.1 ha
Flooded area 17.2 ha
Potentially affected population ~ 7800

Affected Built-up and Transportations

Built-Up 1,968 No.
Road 54.3 km
Bridge 8 No.

Crisis Information

- Flooded Area
- Flood trace
- Residential Building, Destroyed
- Residential Building, Damaged
- Residential Building, Possibly damaged
- Non-residential Building, Destroyed
- Non-residential Building, Damaged
- Non-residential Building, Possibly damaged
- Road, Damaged
- Road, Possibly damaged
- Railway, Possibly damaged
- Main road, No visible damage
- Local road, No visible damage
- Track, No visible damage
- Harbour, waterway and other waterwork, Damaged

Built-Up Grading

- Area of Interest
- Detail map
- Placenames
- Hydrography

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:Pléiades-1A/B © CNES (2021), distributed by Airbus DS (acquired on 29/10/2021 at 04:32 UTC, resolution 0.5 m).
Post-event image: Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 16/05/2023 at 04:43 UTC, resolution 0.5 m). This image is used as background image.
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

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

The thematic layer has been derived from post-event satellite image by means of visual interpretation.
The scale of analysis is 1:10000. The estimated geometric accuracy (RMSE) is 2.5 m or better, from naïve positional accuracy of the background satellite image. The minimum mapping unit (MMU) is 100 sq m.

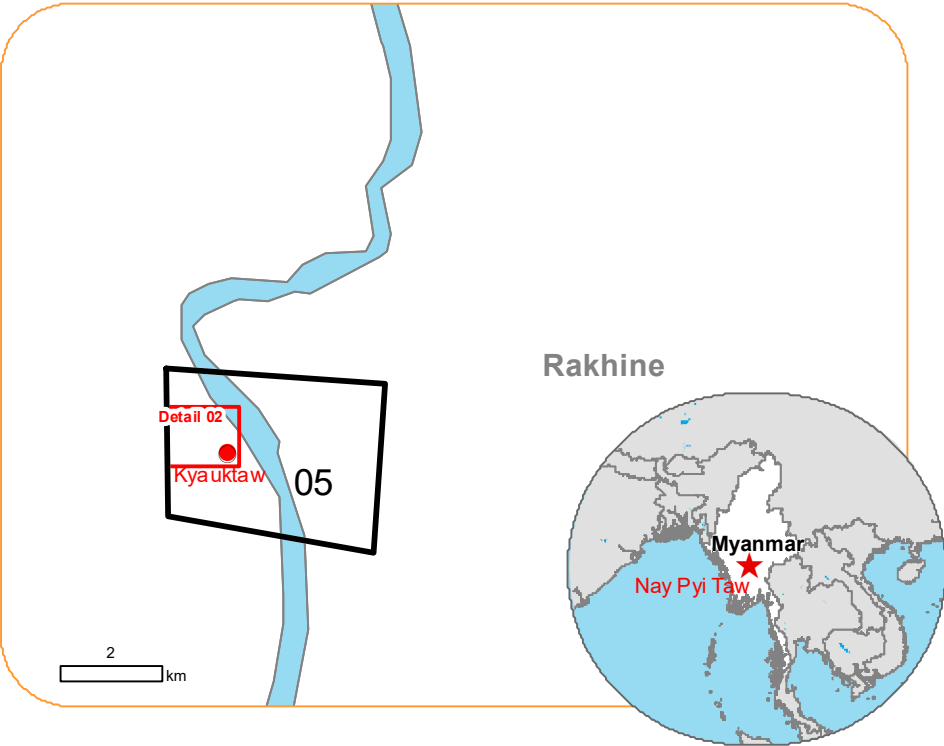
Map produced by GAF AG released by e-GEOS on the 17/05/2023.

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





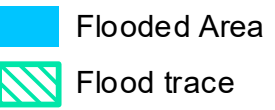
Situation as of 16/05/2023 04:43 UTC
Grading - Detail map 02



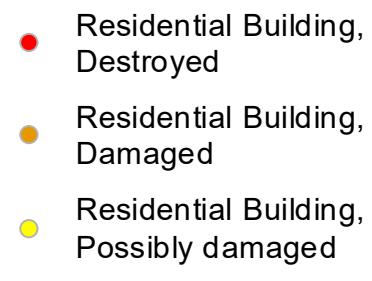
Affected Built-up and Transportations



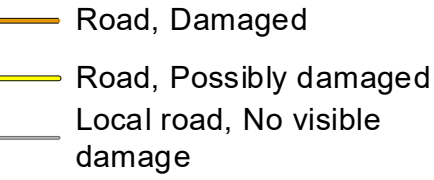
Crisis Information



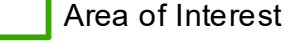
Built-Up Grading



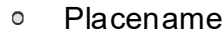
Transportation Grading



General Information



Placenames



Hydrography



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: Pléiades-1A/B © CNES (2021), distributed by Airbus DS (acquired on 29/10/2021 at 04:32 UTC, resolution 0.5 m). Post-event image: Pléiades-1A/B © CNES (2023), distributed by Airbus DS (acquired on 16/05/2023 at 04:43 UTC, resolution 0.5 m). This image is used as background image. All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

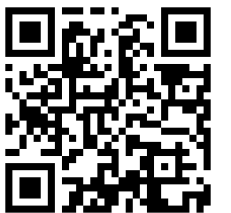
Base vector layers: OpenStreetMap © OpenStreetMap contributors (2023), Wikimapia.org, GeoNames 2015. Global Administrative Areas (2012), refined by the producer. Copernicus Global Land Service: Land Cover (2019). Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015.

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

The thematic layer has been derived from post-event satellite image by means of visual interpretation. 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 GAF AG released by e-GEOS on the 17/05/2023.

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



EMSR661 AOI: 05 Kyauktaw Grading

Consequences within the AOI								
	Unit of measurement			Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flood trace		ha						434.1
Flooded area		ha						17.2
Estimated population	Number of inhabitants						~ 7,800	~ 53,000
Built-up	Residential Buildings	No.		118	1,058	732	1,908	1,908
	Industrial buildings and warehouses	No.		0	29	4	33	33
	Other non-residential buildings	No.		1	25	0	26	26
	Buildings used as places of worship and for religious activities	No.		0	0	1	1	1
	Communication buildings, stations, terminals and associated buildings	No.		0	0	0	0	2
Transportation	Harbours	ha		0.0	0.6	0.0	0.6	0.6
	Primary Road	km		0.0	0.0	2.6	2.6	3.3
	Local Road	km		0.0	12.3	32.7	45.1	54.5
	Cart Track	km		0.0	1.3	5.3	6.6	7.0
	Long-distance railways	km		0.0	0.0	1.6	1.6	1.6
	Bridges and elevated highways	No.		0	0	8	8	8
			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	353.4	627.6
	Forests	ha	NA	NA	NA	NA	74.7	340.8
	Other	ha	NA	NA	NA	NA	21.8	326.5
	Inland wetlands	ha	NA	NA	NA	NA	1.1	7.9
	Shrub and/or herbaceous vegetation association	ha	NA	NA	NA	NA	0.4	15.9
	Open spaces with little or no vegetation	ha	NA	NA	NA	NA	0.0	2.3
* Presence of damage proxies and proximity with destroyed/damaged asset ** Sum of all damage classes								

Disclaimer:

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

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

© European Union / Copernicus Emergency Management Service



PROGRAMME OF THE
EUROPEAN UNION

