POST TROPICAL CYCLONE REPORT

Storm Name Super Typhoon Mawar

NWS Office Guam

Begin/End Date 05/20/2023 - 05/28/2023

Fatalities 0 - Direct
2 - Indirect

Tornadoes N/A

Event Summary

Super Typhoon Mawar developed well southwest of Chuuk on 20 May then steadily intensified into a 150+ mph super typhoon by 23 May. It headed northward as a tropical storm between the outer islands of eastern Yap and western Chuuk states and eventually intensified into a typhoon north of Satawal, Yap State. Mawar continued to intensify into a category 5 super typhoon southeast of Guam before weakening to an estimated 140 mph category 4 typhoon as it made landfall on northern Guam. Impacts ranged from moderate in the south to devastating in the north, closest to the eye of Mawar. Significant impacts were noted to trees and wooden and tin structures on Guam. Some structures, including high-rise hotels, exhibited significant damage to facades, including collapsed or caved-in walls. Wind-related impacts decreased farther to the north across the CNMI. While little coastal inundation was reported across the CNMI, extensive erosion occurred along all shores of Guam with sea waters surging well above normal water levels due to the combination of storm surge, ocean surface wind stress, and wave action. Once to the west of Guam, Mawar steadily intensified to a peak estimated intensity of 185 mph on 26 May.

NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.

Highest 10 Land Winds (kts)*

Station	*State*	*Type*	*Sustained*	*Gust*
WFO Guam	GU	NWS	79	115
Guam International Airport	GU	ASOS	62	91
Mangilao Sutron	GU	NWS	61	85
Wireless Ridge Personal Wx	CNMI	PWS	61	65
Apra Sutron	GU	NWS	54	70
Andersen AFB	GU	ASOS	50	56
Dandan Inarajan RAWS	GU	USFS	43	88
Red Cross-Airport	CNMI	PWS	37	44
Saipan International Airport	CNMI	ASOS	32	45
Tinian Sutron	CNMI	NWS	30	45

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

Station	*Type*	*Sustained*	*Gust*
Apra Harbor Tide Gauge	NOS	56	87
Pago Bay Tide Gauge	NOS	51	76

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

Station	*State*	*Type*	*Inches*
Dededo	GU	USGS	28.12
Dandan Inarajan RAWS	GU	USFS	28.11
Mount Chachao	GU	USGS	26.91
NWS Guam	GU	NWS	24.71
Fena Lake Pump Station	GU	USGS	22.94
Geomag Observatory AAFB	GU	USGS	22.08
Inarajan Sutron	GU	NWS	22.04
Umatac	GU	USGS	19.66
Almagosa	GU	USGS	19.00
Windward Hills	GU	USGS	18.90

Highest NOAA Tide Gage Observations

Station	*State*	*Datum*	*Water Level (ft)*
Pago Bay Tide Gauge	GU	MHHW	2.00
Apra Harbor Tide Gauge	GU	MHHW	1.14

Lowest 10 Pressures

Station	*State*	*Type*	*Millibars*
WFO Guam	GU	NWS	966.5
Guam International Airport	GU	ASOS	970.9
Apra Harbor Tide Gauge	GU	NOS	974.6
Pago Bay Tide Gauge	GU	NOS	974.9
Mangilao Sutron	GU	NWS	974.9
Apra Sutron	GU	NWS	977.3
Inarajan Sutron	GU	NWS	982.3
Tinian Sutron	CNMI	NWS	998.2
AMME Garapan Saipan	CNMI	NPS	1000.3
Saipan International Airport	CNMI	ASOS	1001.3

Report Last Updated on 06/01/2023:

This is the first issuance. The following files have been updated: Wind and Pressure, Rainfall, Water Level, and Impact Narratives.