



TROPICAL CYCLONE PRELIMINARY REPORT Typhoon FALCON (KHANUN)

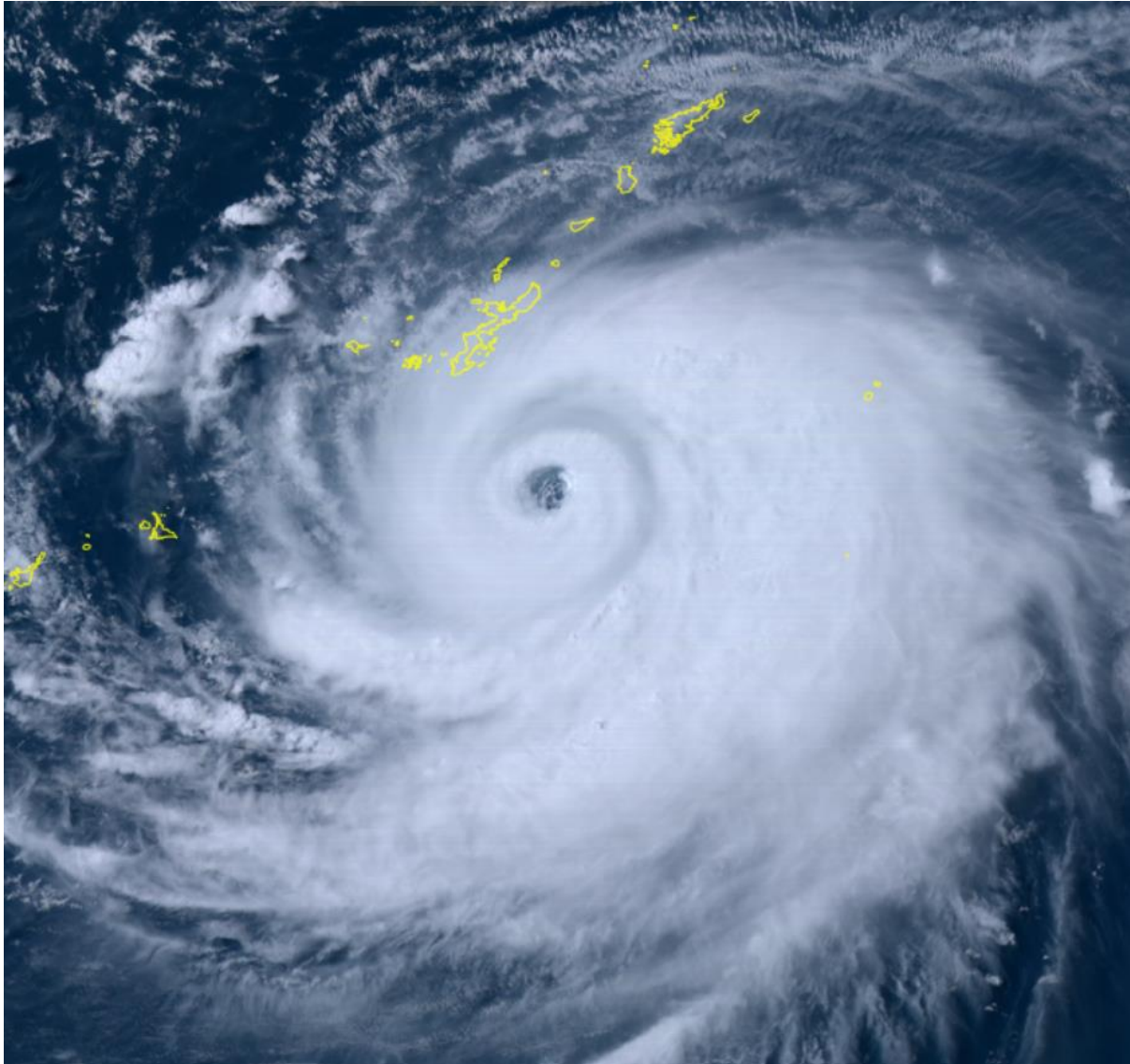


Fig. 1. Himawari-9 AHI visible image of Typhoon Falcon at 03 UTC on 01 August 2023. Imagery courtesy of National Institute of Information and Communications Technology (NICT), Japan.

R. P. Gile, J. E. M. Bulquerin, and S. F. Duran

Tropical Cyclone Group, Marine Meteorological Services Section, Weather Division, DOST-PAGASA

Date Published: 22 August 2023

Disclaimer: The information herein is based on publicly-issued bulletins, advisories, and warnings and the result of the near-real time (initial) best track analysis. As such, the information provided herein are considered preliminary only and will be replaced by the information that will become available once the Annual Report on Philippine Tropical Cyclones (2023 Edition) is published.

"The Weather and Climate Authority"



Summary of Meteorological History

Based on PAGASA preliminary best track position and intensities

First tracked as a disturbance	0000 UTC, 24 July 2023 Over the sea near Yap, Federated States of Micronesia
Developed into a tropical cyclone	1200 UTC, 26 July 2023 Over the sea near Yap, Federated States of Micronesia
Weakened into a remnant low	1200 UTC, 11 August 2023 Over the sea west of North Korea.
Peak intensity (lifetime ¹)	95 kt (175 km/h), 930 hPa, Typhoon 0000 UTC, 01 August 2023
Period of occurrence (lifetime)	16 days
Entered the PAR region	1500 UTC, 28 July 2023
Exited the PAR region	0730 UTC, 01 August 2023
Peak intensity (within the PAR)	95 kt (175 km/h), 930 hPa, Typhoon 0000 UTC, 01 August 2023
Period of occurrence (within the PAR)	3 day and 16.5 hours
Observed landfalls in the Philippines	None
Significant hydrometeorological hazard observed over the country	Monsoon total rainfall > 100 mm La Union, Pangasinan, Benguet, Zambales, Bataan, Tarlac, Pampanga, Bulacan, Metro Manila, Rizal, Cavite, and the western portions of Batangas and Laguna. Peak rainfall reaching 300+ mm in Zambales and Bataan

Extremes of Surface Weather Observations during Tropical Cyclone Days²

Based on reports from PAGASA manned surface weather stations

Highest storm duration (28 July to 01 August 2023) rainfall over land:

- Subic, Zambales: 733.8 mm
- Iba, Zambales: 608.7 mm
- Abucay, Bataan: 521.2 mm

Highest 24-hour rainfall over land:

- Subic, Zambales: 278.5 mm, 28 July 2023
- Iba, Zambales: 273.1 mm, 29 July 2023
- Abucay, Bataan: 203.4 mm, 28 July 2023

¹ Lifetime is the period from the development into a tropical depression to its weakening into a remnant low or its transitioning into a post-tropical low.

² Also called "storm duration", it refers to the meteorological days of occurrence of the tropical cyclone within the PAR region.

Disclaimer: The information herein is based on publicly-issued bulletins, advisories, and warnings and the result of the near-real time (initial) best track analysis. As such, the information provided herein are considered preliminary only and will be replaced by the information that will become available once the Annual Report on Philippine Tropical Cyclones (2023 Edition) is published.



Summary of Tropical Cyclone Product Issuances

Public and Marine Tropical Cyclone Products

- Tropical Cyclone Updates:
 - First issuance: 4:00 PM, 27 July 2023
 - Last issuance: 4:00 AM, 04 August 2023
 - Total issued: 17
- Tropical Cyclone Advisories:
 - First issuance: 11:00 AM, 27 July 2023
 - Last issuance: 5:00 AM, 29 July 2023
 - Total issued: 6
- Tropical Cyclone Bulletins:
 - First issuance: 5:00 AM, 29 July 2023
 - Last issuance: 5:00 PM, 01 August 2023
 - Total issued: 15
- Tropical Cyclone Warnings for Shipping:
 - First issuance: 5:00 AM, 29 July 2023
 - Last issuance: 5:00 PM, 01 August 2023
 - Total issued: 15

Tropical Cyclone Wind Signals: None hoisted

Other Pertinent Information

- The Southwest Monsoon, which was strengthened by the earlier passage of Super Typhoon EGAY, was strongly enhanced during the occurrence of TY Falcon, resulting in widespread rains over the western portion of Luzon, especially over the Zambales-Bataan area.
- In its Situational Report No.34, the National Disaster Risk Reduction and Management Council reported that EGAY and the Southwest Monsoon enhanced by it and Super Typhoon EGAY resulted in 30 dead, 171 injured, and 9 missing persons, as well combined cost of damage to housing, infrastructure, and agriculture amounting to PHP 14,804,333,026.1045.
- The international name “Khanun” (meaning: Jackfruit) was contributed by the Kingdom of Thailand.

Disclaimer: The information herein is based on publicly-issued bulletins, advisories, and warnings and the result of the near-real time (initial) best track analysis. As such, the information provided herein are considered preliminary only and will be replaced by the information that will become available once the Annual Report on Philippine Tropical Cyclones (2023 Edition) is published.

“The Weather and Climate Authority”

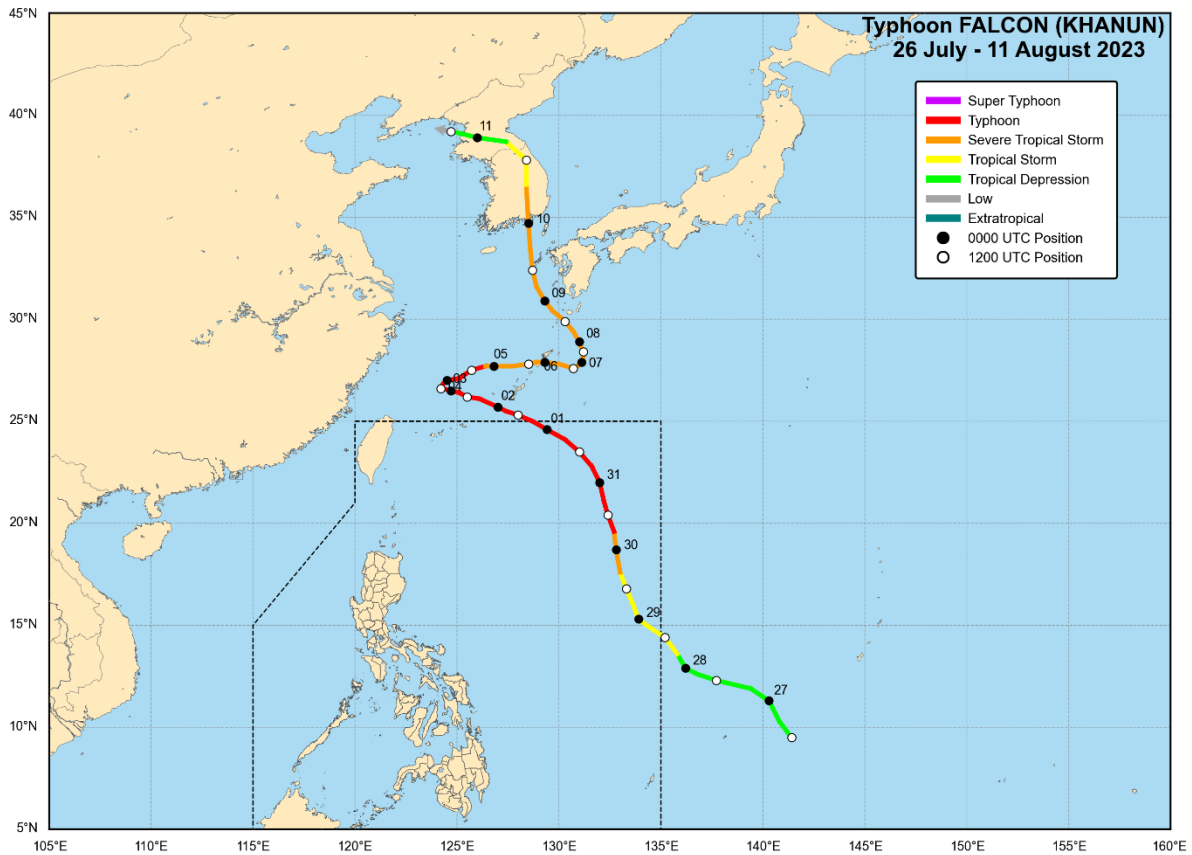


Fig. 2. Preliminary best track positions and intensities (as categories) of Typhoon FALCON. Line color indicates the category of tropical cyclone. Shaded circles with date labels indicated 00 UTC positions while open circles indicate 12 UTC positions.

Disclaimer: The information herein is based on publicly-issued bulletins, advisories, and warnings and the result of the near-real time (initial) best track analysis. As such, the information provided herein are considered preliminary only and will be replaced by the information that will become available once the Annual Report on Philippine Tropical Cyclones (2023 Edition) is published.

"The Weather and Climate Authority"

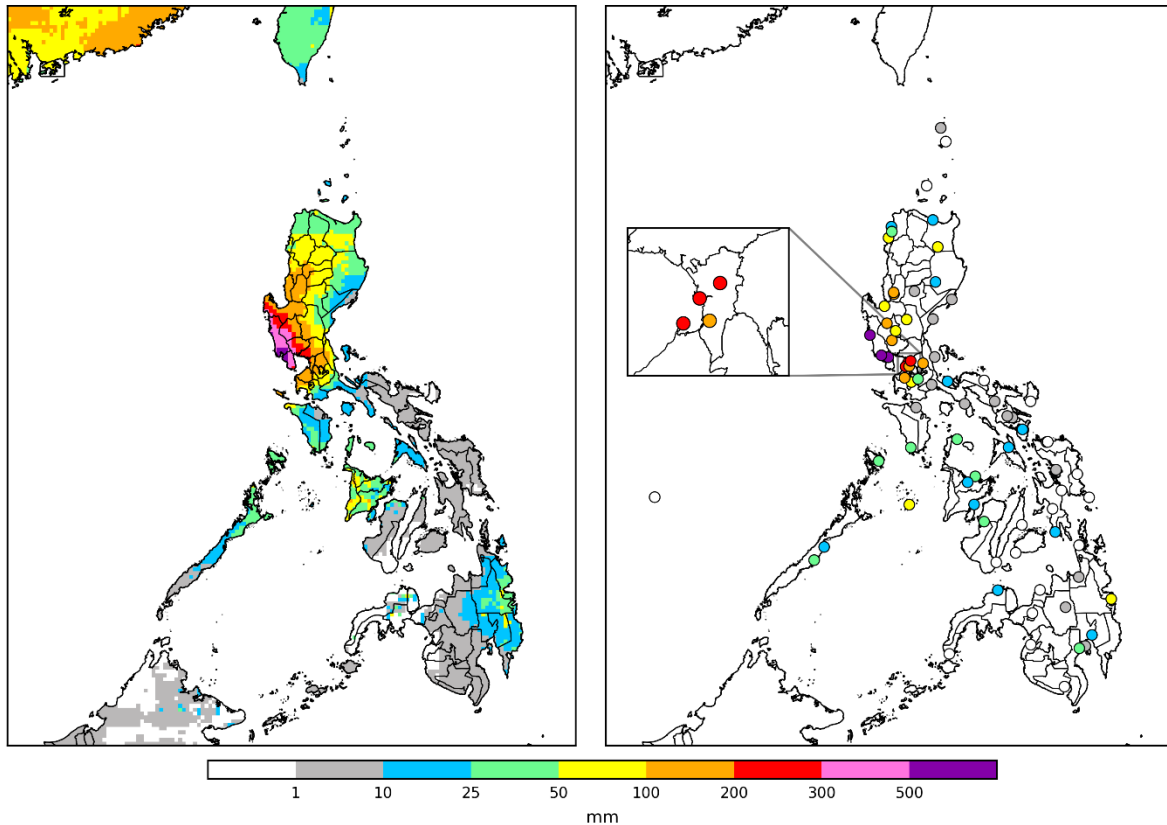


Fig. 3. Nationwide satellite-derived estimates and corresponding gauge observations from PAGASA manned surface weather stations of accumulated rainfall for the period of 28 July to 01 August 2023. The preliminary best track of the tropical cyclone is outside the geographic extent of this figure.

Disclaimer: The information herein is based on publicly-issued bulletins, advisories, and warnings and the result of the near-real time (initial) best track analysis. As such, the information provided herein are considered preliminary only and will be replaced by the information that will become available once the Annual Report on Philippine Tropical Cyclones (2023 Edition) is published.