

TROPICAL CYCLONE PRELIMINARY REPORT

Typhoon FERDIE
BEBINCA (2413)

09 to 18 September 2024

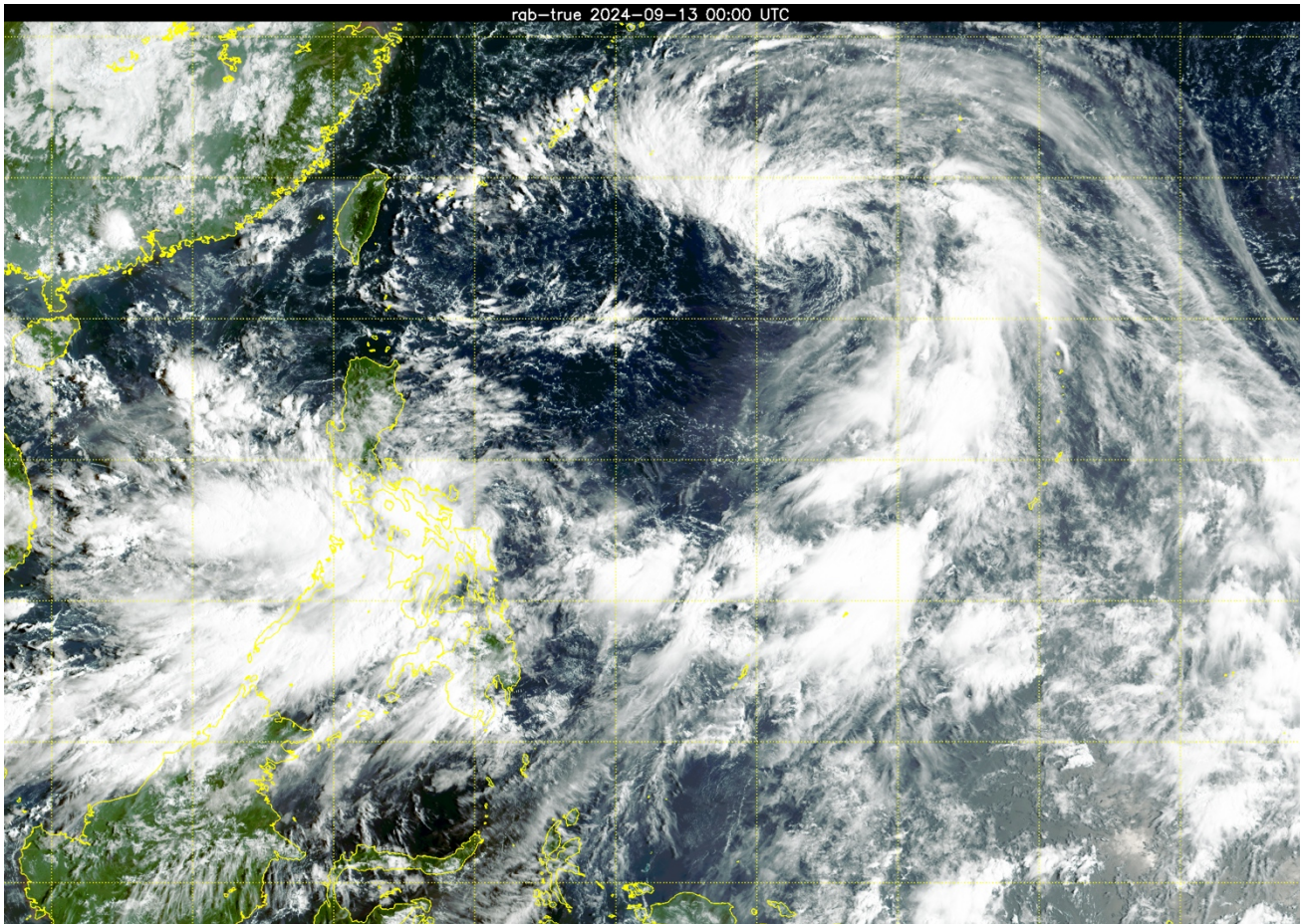


Fig. 1. GK2A AMI true color RGB image of then-Tropical Storm FERDIE at 00 UTC on 13 September 2024, prior to entering the Philippine Area of Responsibility. Image courtesy of the National Meteorological Satellite Center, Korea Meteorological Administration.

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Date Published: 31 December 2024
Last Revision: 31 March 2025 (Rev.1)

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Summary of Meteorological History

Based on PAGASA preliminary best track¹ position and intensities

First tracked as a low pressure area	0600 UTC, 07 September 2024 Over the Western North Pacific waters near Yap, Federated States of Micronesia
Developed into a tropical cyclone	1800 UTC, 09 September 2024 Over the Western North Pacific waters SE of Guam 2,335 km E of Eastern Visayas (10.7°N, 147.1°E)
Weakened into a remnant low or transitioned into a post tropical low	0000 UTC, 18 September 2024 In the vicinity of Zhoukou City, Henan Province, China 1,570 km NNW of Extreme Northern Luzon (33.5°N, 115.0°E)
Peak intensity (lifetime ²)	75 kt (140 km/h), 965 hPa, Typhoon 0600 UTC, 15 September 2024
Period of occurrence (lifetime)	8 days and 6 hours
Entered the PAR region (as tropical cyclone)	1000 UTC, 13 September 2024
Exited the PAR region (as tropical cyclone)	1600 UTC, 13 September 2024
Peak intensity (within the PAR)	50 kt (95 km/h), 990 hPa, Severe Tropical Storm 1200 UTC, 13 September 2024
Period of occurrence (within the PAR)	6 hours
Observed landfalls in the Philippines	None

Extremes of Surface Weather Observations during Tropical Cyclone Days³

Based on reports from PAGASA manned surface weather stations

Table 1. Highest storm duration (13 September 2024) and 24-hour rainfall over land.

Location of weather station	Rainfall (mm)
Dumangas, Iloilo	240.0
San Jose, Occidental Mindoro	178.6
La Carlota City, Negros Occidental	158.2
Tayabas, Quezon	148.1
Pili, Camarines Sur	127.2

¹ With preliminary best track as reference, the information provided in this report may be different from those reported during the warning period of the subject tropical cyclone.

² 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.

³ Also called "storm duration", it refers to the meteorological days of occurrence of the tropical cyclone within the PAR region.

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Summary of Tropical Cyclone Product Issuances

Issued by the Weather Division, DOST-PAGASA

Tropical Cyclone Products:

- Tropical Cyclone Advisories:
 - First issuance: 11:00 PM, 10 September 2024
 - Last issuance: 11:00 PM, 13 September 2024
 - Total issued: 7
- Tropical Cyclone Bulletins:
 - First issuance: 11:00 PM, 13 September 2024
 - Last issuance: 5:00 AM, 14 September 2024
 - Total issued: 2
- Tropical Cyclone Warnings for Shipping:
 - First issuance: 11:00 PM, 13 September 2024
 - Last issuance: 5:00 AM, 14 September 2024
 - Total issued: 2
- WC SIGMET: None issued

Tropical Cyclone Wind Signals:

None hoisted

Other Pertinent Information

- FERDIE had the characteristics of a monsoon depression at the time of its occurrence. Despite its vast distance from the Philippines, the resulting synoptic situation over the Western North Pacific favored an enhanced Southwest Monsoon over the country. This monsoon activity continued for several weeks due to the subsequent passages of Tropical Cyclones GENER, HELEN, and IGME.
- Reports from the National Disaster Risk Reduction and Management Council (NDRRMC) listed 1,629,519 individuals affected by the compounding impacts of prolonged monsoon rains triggered by the passage of FERDIE, GENER, HELEN, and IGME. Furthermore, a total 26 dead, 17 injured and 3 missing individuals, as well as total cost of damage to houses, agriculture, infrastructure, and other assets amounting to PHP 1.121 billion, were also reported by the NDRRMC.
- The international name "BEBINCA" (meaning: Macanese milk pudding) was contributed by the Macao S.A.R., China.

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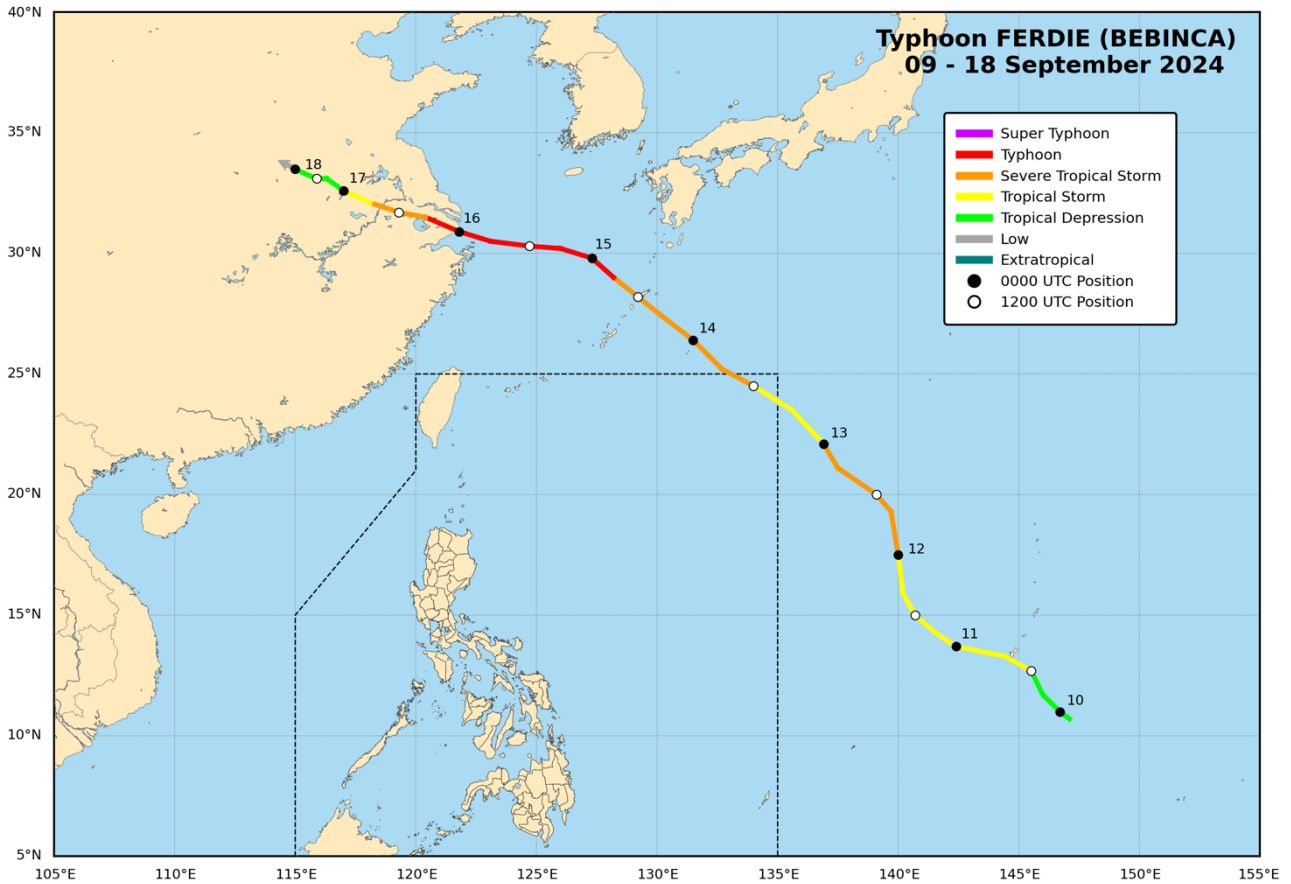


Fig. 2. Preliminary best track positions and intensities (as categories) of Typhoon FERDIE. Line color indicates the category of tropical cyclone. Shaded circles with date labels indicated 00 UTC positions while open circles indicate 12 UTC positions.

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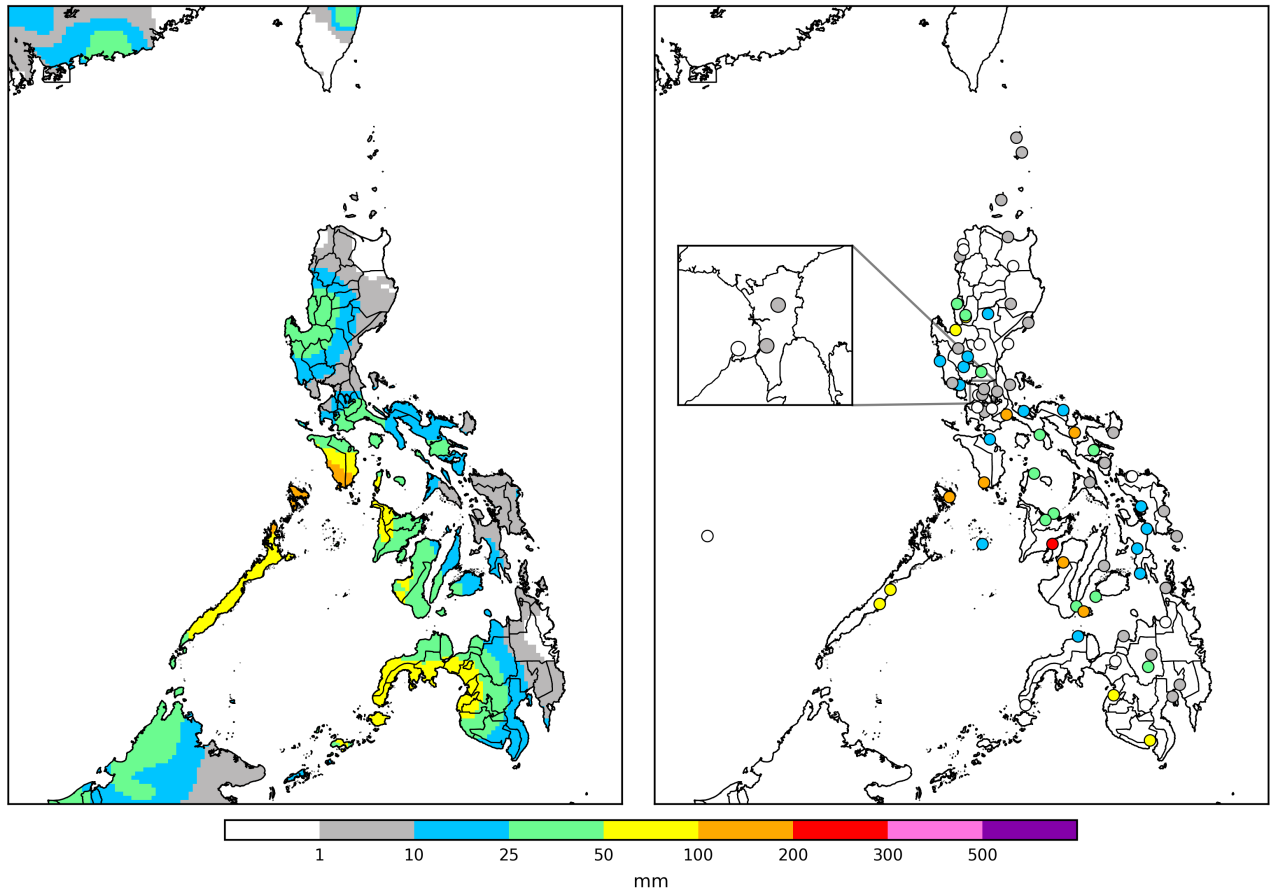


Fig. 3. Nationwide satellite-derived estimates and corresponding gauge observations from PAGASA manned surface weather stations of accumulated rainfall for the period of 13 September 2024. The preliminary best track is outside the domain of this figure.

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This Report shall be properly acknowledged in any work connected, either in full or partly, to this publication.

While we ensure the factual correctness and accuracy of the entries in this preliminary tropical cyclone report, readers are advised to report any text or figure in this report which may require correction to the Marine Meteorological Services Section by email at typhoon.ops@pagasa.dost.gov.ph with the subject "*Prelim Report [Name of TC], [Year]: For Correction*".

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