



TROPICAL CYCLONE BULLETIN NR. 16
Typhoon CARINA (GAEMI)

Issued at 5:00 PM, 23 July 2024

Valid for broadcast until the next bulletin at 11:00 PM today.

TYPHOON “CARINA” CONTINUES TO INSTENSIFY WHILE MOVING NORTHWARD

Location of Center (4:00 PM)

The center of Typhoon CARINA was estimated based on all available data at **325 km East Northeast of Basco, Batanes (21.1°N, 125.0°E)**

Intensity

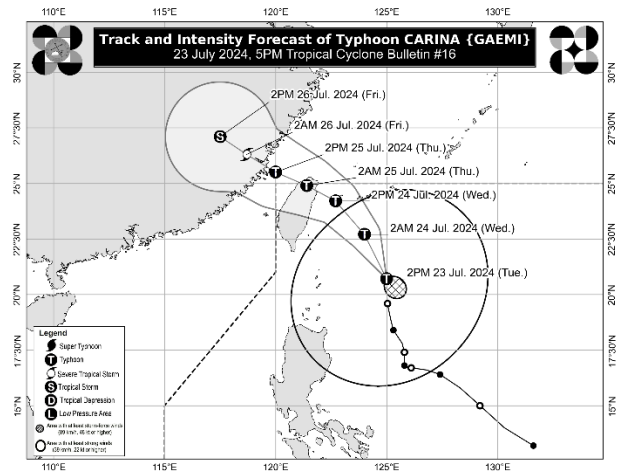
Maximum sustained winds of **150 km/h** near the center, gustiness of up to **185 km/h**, and central pressure of **960 hPa**

Present Movement

Northward at 20 km/h

Extent of Tropical Cyclone Winds

Strong to typhoon-force winds extend outwards up to **540 km** from the center



TRACK AND INTENSITY FORECAST

Date and Time	Center Position			Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)	Location	MSW (km/h)	Cat.	
12-Hour Forecast 2:00 AM 24 July 2024	22.7	124.0	310 km Northeast of Itbayat, Batanes	155	TY	NNW 20
24-Hour Forecast 2:00 PM 24 July 2024	24.2	122.7	390 km North Northeast of Itbayat, Batanes	175	TY	NW 20
36-Hour Forecast 2:00 AM 25 July 2024	24.9	121.4	460 km North of Itbayat, Batanes	165	TY	WNW 15
48-Hour Forecast 2:00 PM 25 July 2024	25.5	120.0	555 km North Northwest of Itbayat, Batanes (OUTSIDE PAR)	140	TY	WNW 15
60-Hour Forecast 2:00 AM 26 July 2024	26.3	118.7	690 km North Northwest of Itbayat, Batanes (OUTSIDE PAR)	120	STS	NW 15
72-Hour Forecast 2:00 PM 26 July 2024	27.1	117.5	830 km North Northwest of Extreme Northern Luzon (OUTSIDE PAR)	85	TS	NW 10

Prepared by: PCDM

Checked by: CFP

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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
2 Wind threat: Gale-Force winds	Batanes	-	-
	Warning lead time: 24 hours Range of wind speeds: 62 to 88 km/h (Beaufort 8 to 9) Potential impacts of winds: Minor to moderate threat to life and property		
1 Wind threat: Strong winds	Cagayan including Babuyan Islands, the eastern portion of Isabela (Divilacan, Palanan, Maconacon, Dinapigue, Tumauni, Ilagan City, San Mariano, Cabagan, San Pablo, Santa Maria), the northern portion of Apayao (Calanasan, Luna, Pudtol, Flora, Santa Marcela, Kabugao), and the northern portion of Ilocos Norte (Pagudpud, Bangui, Adams, Dumalneg, Burgos, Vintar, Pasuquin, Bacarra, Carasi)	-	-
	Warning lead time: 36 hours Range of wind speeds: 39 to 61 km/h (Beaufort 6 to 7) Potential impacts of winds: Minimal to minor threat to life and property		

OTHER HAZARDS AFFECTING LAND AREAS
<p>Heavy Rainfall Outlook</p> <p>Forecast accumulated rainfall: From today to tomorrow afternoon</p> <ul style="list-style-type: none"> • 100-200 mm: Batanes, Babuyan Islands, the northern and eastern portion of Mainland Cagayan, and Ilocos Sur • 50-100 mm: Ilocos Norte, La Union, Abra, Benguet, Apayao, the eastern portion of Isabela, and the rest of Cagayan <p>Forecast accumulated rainfall: From tomorrow afternoon to Thursday afternoon (25 July)</p> <ul style="list-style-type: none"> • 100-200 mm: Batanes • 50-100 mm: Babuyan Islands <p>Forecast rainfall are generally higher in elevated or mountainous areas. Under these conditions, flooding and rain-induced landslides are possible especially in areas that are highly or very highly susceptible to these hazards as identified in official hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.</p> <p>Furthermore, the Southwest Monsoon enhanced by CARINA will bring moderate to intense rainfall over various localities in the western portion of Luzon today through Thursday. For more information, refer to Weather Advisory No. 27 issued at 11:00 AM today.</p> <p>Severe Winds</p> <p>The wind signals warn the public of the general wind threat over an area due to the tropical cyclone. Local winds may be slightly stronger/enhanced in coastal and upland/mountainous areas exposed to winds. Winds are less strong in areas sheltered from the prevailing wind direction.</p> <ul style="list-style-type: none"> • Minor to moderate impacts from strong winds are possible within any of the localities where Wind Signal No. 2 is hoisted. • Minimal to minor impacts from strong winds are possible within any of the areas under Wind Signal No. 1.

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The Southwest Monsoon enhanced by CARINA will also bring **strong to gale-force gusts** over the following areas (especially in coastal and upland areas exposed to winds):

- **Today:** Ilocos Region, Abra, Benguet, Nueva Vizcaya, Quirino, Zambales, Bataan, Aurora, Metro Manila, CALABARZON, MIMAROPA, Bicol Region, Visayas, Zamboanga Peninsula, Northern Mindanao, and Davao Region
- **Tomorrow:** Babuyan Islands, Ilocos Region, Abra, Benguet, Nueva Vizcaya, Quirino, Central Luzon, Metro Manila, CALABARZON, MIMAROPA, Bicol Region, Visayas, Zamboanga Peninsula, and Northern Mindanao
- **Thursday:** Batanes, Babuyan Islands, Ilocos Region, Cordillera Administrative Region, Nueva Vizcaya, Quirino, Central Luzon, Metro Manila, CALABARZON, MIMAROPA, Bicol Region, Western Visayas, Negros Occidental, and Northern Samar.

HAZARDS AFFECTING COASTAL WATERS

- **Gale Warning is in effect over the coastal waters of Batanes, Babuyan Islands, and the northeastern portion of Cagayan.** Sea travel is risky for small seacrafts, including all types of motorbancas. For more information, refer to Gale Warning No. 2 issued at 5:00 PM today.
- In the next 24 hours, CARINA and the enhanced Southwest Monsoon will bring rough seas over the northern and eastern seaboard of Northern Luzon and the eastern seaboard of Central Luzon outside Gale Warning areas (2.5 to 4.0 m).
- Moderate to rough seas are also expected over the eastern seaboard of Southern Luzon (2.0 to 3.0 m), western seaboard of Luzon (2.0 to 3.5 m), the southern seaboard of Southern Luzon (2.0 to 3.5 m), the western and eastern seaboard of Visayas (2.0 to 3.5 m), and the eastern seaboard of Mindanao (1.5 to 2.5 m). Mariners of small seacrafts, including all types of motorbancas, are advised not to venture out to sea under these conditions, especially if inexperienced or operating ill-equipped vessels.

TRACK AND INTENSITY OUTLOOK


- Over the Philippine Sea, CARINA is forecast to move generally north northwestward tonight while gradually accelerating before turning northwestward tomorrow (24 July). On the track forecast, CARINA will remain far from the Philippine landmass. It is also forecast to make landfall over the northern portion of Taiwan between tomorrow evening and Thursday (25 July) morning, then exit the Philippine Area of Responsibility (PAR) hours later. Outside the PAR, CARINA will cross the Taiwan Strait and make landfall over southeastern China on Thursday afternoon or evening.
- CARINA is forecast to steadily intensify and may reach its peak intensity prior to its landfall over Taiwan due to favorable environment. **Rapid intensification remains likely.** Its landfall over northern Taiwan will trigger a weakening trend for the rest of the forecast period.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 11:00 PM today.

DOST-PAGASA

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Checked by:  **CFP**

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