



**TROPICAL CYCLONE BULLETIN NR. 10**  
**Severe Tropical Storm CARINA (GAEMI)**

Issued at 5:00 AM, 22 July 2024

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

**SEVERE TROPICAL STORM “CARINA” FURTHER INTENSIFIES WHILE MOVING SLOWLY.**

**Location of Center (4:00 AM)**

The center of Severe Tropical Storm CARINA was estimated based on all available data at **420 km East of Tuguegarao City, Cagayan (17.2°N, 125.7°E)**

**Intensity**

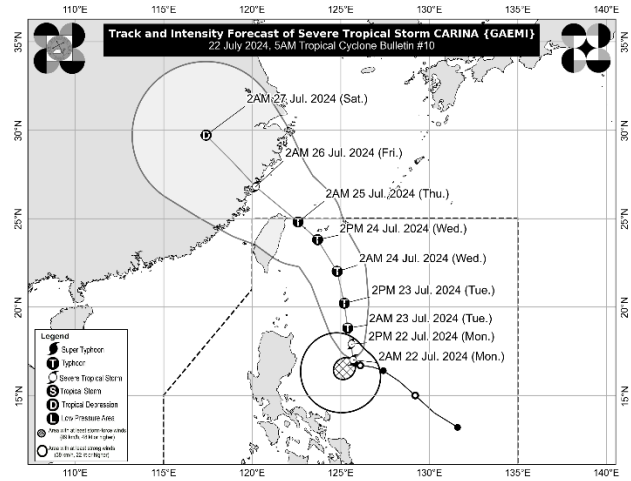
Maximum sustained winds of **100 km/h** near the center, gustiness of up to **125 km/h**, and central pressure of **990 hPa**

**Present Movement**

**North Northwestward slowly**

**Extent of Tropical Cyclone Winds**

**Strong to storm-force winds** extend outwards up to **360 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.	
<b>12-Hour Forecast</b> 2:00 PM 22 July 2024	17.9	125.6	410 km East of Tuguegarao City, Cagayan	110	STS	N 10
<b>24-Hour Forecast</b> 2:00 AM 23 July 2024	18.8	125.4	415 km East of Calayan, Cagayan	120	TY	NNW 10
<b>36-Hour Forecast</b> 2:00 PM 23 July 2024	20.2	125.2	340 km East of Basco, Batanes	140	TY	N 15
<b>48-Hour Forecast</b> 2:00 AM 24 July 2024	22.0	124.8	335 km East Northeast of Itbayat, Batanes	150	TY	NNW 15
<b>60-Hour Forecast</b> 2:00 PM 24 July 2024	23.8	123.7	385 km North Northeast of Itbayat, Batanes	155	TY	NNW 20
<b>72-Hour Forecast</b> 2:00 AM 25 July 2024	24.8	122.6	455 km North of Itbayat, Batanes	165	TY	NW 15
<b>96-Hour Forecast</b> 2:00 AM 26 July 2024	26.8	120.2	690 km North Northwest of Itbayat, Batanes (OUTSIDE PAR)	110	STS	NW 15
<b>120-Hour Forecast</b> 2:00 AM 27 July 2024	29.7	117.4	1,090 km North Northwest of Extreme Northern Luzon (OUTSIDE PAR)	55	TD	NW 20

Prepared by: *RPG*

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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>1</b> Wind threat: <b>Strong winds</b>	<b>The eastern portion of mainland Cagayan</b> (Santa Ana, Gattaran, Baggao, Peñablanca, Lal-Lo, Gonzaga) and <b>the northeastern portion of Isabela</b> (Divilacan, Palanan, Maconacon)	-	-
	Warning lead time: <b>36 hours</b> Range of wind speeds: <b>39 to 61 km/h (Beaufort 6 to 7)</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		

OTHER HAZARDS AFFECTING LAND AREAS
<p><b><u>Heavy Rainfall Outlook</u></b></p> <p><b>Forecast accumulated rainfall: Today</b></p> <ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> The extreme northeastern portion of mainland Cagayan</li> <li>• <b>50-100 mm:</b> Babuyan Islands and the eastern portions of mainland Cagayan and Isabela</li> </ul> <p><b>Forecast accumulated rainfall: Tomorrow (23 July)</b></p> <ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> Batanes</li> <li>• <b>50-100 mm:</b> Babuyan Islands and the northeastern portion of mainland Cagayan</li> </ul> <p><b>Forecast accumulated rainfall: Wednesday (24 July)</b></p> <ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> Batanes and Babuyan Islands</li> </ul> <p><b>Forecast rainfall are generally higher in elevated or mountainous areas.</b> Under these conditions, <b>flooding and rain-induced landslides are possible</b> 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 tonight through Wednesday. For more information, refer to Weather Advisory No. 24 issued at 11:00 PM yesterday.</p> <p><b><u>Severe Winds</u></b></p> <p>Minimal to minor impacts due to strong winds may be experienced within any of the localities where Wind Signal No. 1 is hoisted.</p> <p>The Southwest Monsoon enhanced by CARINA will also bring <b>strong to gale-force gusts</b> over the following areas (especially in coastal and upland areas exposed to winds):</p> <ul style="list-style-type: none"> <li>• <b>Today:</b> MIMAROPA, Bicol Region, Western Visayas, Northern Samar, and the northern portion of Samar.</li> <li>• <b>Tomorrow:</b> Zambales, Bataan, Aurora, Metro Manila, CALABARZON, MIMAROPA, Bicol Region, and Visayas</li> <li>• <b>Wednesday:</b> Ilocos Region, Abra, Benguet, Nueva Vizcaya, Quirino, Central Luzon, Metro Manila, CALABARZON, MIMAROPA, Bicol Region, and Visayas.</li> </ul>

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**HAZARDS AFFECTING COASTAL WATERS**

In the next 24 hours, CARINA and the enhanced Southwest Monsoon will bring moderate to rough seas over the northern and eastern seaboard of Northern Luzon (1.5 to 3.0 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.

Moderate seas are also expected over the seaboard of Central and Southern Luzon (1.5 to 2.5 m) and the eastern seaboard of Visayas and Mindanao (1.5 to 2.0 m). Mariners of motorbancas and similarly-sized vessels are advised to take precautionary measures while venturing out to sea and, if possible, avoid navigating under these conditions.

**TRACK AND INTENSITY OUTLOOK**

- Over the Philippine Sea, CARINA is forecast to move generally north northwestward to northward until mid-Wednesday (24 July) while gradually accelerating before turning northwestward for the remainder of the forecast period. On the track forecast, CARINA will remain far from the Philippine landmass and exit the Philippine Area of Responsibility on Wednesday evening or Thursday early morning (25 July). The track forecast also shows CARINA passing near or over the southern islands of the Ryukyu archipelago prior to leaving the PAR region and passing close to northern Taiwan after exiting the PAR. From Thursday onwards, CARINA will move over the East China Sea towards southeastern China.
- CARINA is forecast to steadily intensify over the next four days due to favorable environment. It is forecast to reach typhoon category within 24 hours. **Rapid intensification within the forecast period is likely.**

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 AM today.

**DOST-PAGASA**

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