



## TROPICAL CYCLONE BULLETIN NO. 5

### Typhoon BETTY (MAWAR)

Issued at 5:00 AM, 28 May 2023

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

#### TYPHOON "BETTY" MAINTAINS ITS STRENGTH WHILE MOVING OVER THE PHILIPPINE SEA EAST OF NORTHERN LUZON

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

The center of the eye of Typhoon BETTY was estimated based on all available data at **815 km East of Northern Luzon (17.1°N, 129.4°E)**

##### Intensity

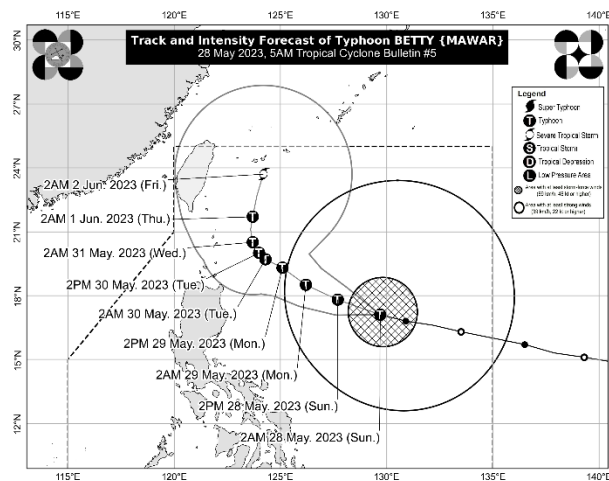
Maximum sustained winds of **175 km/h** near the center, gustiness of up to **215 km/h**, and central pressure of **935 hPa**

##### Present Movement

**West northwestward at 20 km/h**


##### Extent of Tropical Cyclone Winds

**Strong to typhoon-force winds** extend outwards up to **740 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 28 May 2023	17.8	127.7	630 km East of Tuguegarao City, Cagayan	175	TY	WNW 20
<b>24-Hour Forecast</b> 2:00 AM 29 May 2023	18.5	126.2	485 km East of Aparri, Cagayan	175	TY	WNW 15
<b>36-Hour Forecast</b> 2:00 PM 29 May 2023	19.3	125.1	380 km East of Calayan, Cagayan	165	TY	NW 10
<b>48-Hour Forecast</b> 2:00 AM 30 May 2023	19.7	124.3	300 km East of Calayan, Cagayan	155	TY	WNW 10
<b>60-Hour Forecast</b> 2:00 PM 30 May 2023	20.0	124.0	215 km East Southeast of Basco, Batanes	150	TY	NW Slowly
<b>72-Hour Forecast</b> 2:00 AM 31 May 2023	20.5	123.7	180 km East of Basco, Batanes	140	TY	NNW Slowly
<b>96-Hour Forecast</b> 2:00 AM 01 June 2023	21.7	123.7	195 km East Northeast of Basco, Batanes	130	TY	N Slowly
<b>120-Hour Forecast</b> 2:00 AM 02 June 2023	23.7	124.2	405 km Northeast of Itbayat, Batanes	110	STS	NNE 10

Prepared by:   
PCDM

Checked 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>Batanes, Cagayan including Babuyan Islands, Isabela, Apayao, Ilocos Norte, the northern and central portions of Abra</b> (Tineg, Lacub, Lagayan, San Juan, Lagangilang, Licuan-Baay, Malibcong, Danglas, La Paz, Dolores, Tayum, Bucay, Sallapadan, Daguioman, Bucloc, Boliney), <b>Kalinga, the eastern and central portions of Mountain Province</b> (Sadanga, Barlig, Natonin, Paracelis, Bontoc), <b>the eastern and central portions of Ifugao</b> (Mayoyao, Aguinaldo, Alfonso Lista, Banaue, Hingyon, Lagawe, Lamut, Kiangnan, Asipulo), <b>the northern and central portions of Aurora</b> (Dilasag, Casiguran, Dinalungan, Dipaculao), <b>Quirino and the northeastern portion of Nueva Vizcaya</b> (Kasibu, Quezon, Solano, Bagabag, Diadi, Villaverde, Bayombong, Ambaguio)	-	-
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>			

HAZARDS AFFECTING LAND AREAS
<b>Heavy Rainfall Outlook</b>  <b>Forecast accumulated rainfall from tomorrow early morning to Tuesday early morning</b> <ul style="list-style-type: none"><li>• <b>100-200 mm:</b> The eastern portion of Babuyan Islands and the northeastern portion of mainland Cagayan.</li><li>• <b>50-100 mm:</b> Batanes, the northwestern portion of mainland Cagayan, and the northern portions of Ilocos Norte and Apayao.</li></ul> <b>Forecast accumulated rainfall from Tuesday early morning to Wednesday early morning</b> <ul style="list-style-type: none"><li>• <b>Greater than 200 mm:</b> Batanes, Babuyan Islands, and the northern portion of Ilocos Norte</li><li>• <b>100-200 mm:</b> The northern portion of mainland Cagayan, the rest of Ilocos Norte, Ilocos Sur, La Union, Abra, and Benguet</li><li>• <b>50-100 mm:</b> Pangasinan and the rest of Cordillera Administrative Region and mainland Cagayan.</li></ul> <b>Forecast accumulated rainfall from Wednesday early morning to Thursday early morning</b> <ul style="list-style-type: none"><li>• <b>Greater than 200 mm:</b> Batanes, Ilocos Sur, the northern portion of La Union, and the northern portion of Benguet</li><li>• <b>100-200 mm:</b> Babuyan Islands, Ilocos Norte, Abra, and the rest of La Union and Benguet</li><li>• <b>50-100 mm:</b> The northern portion of mainland Cagayan, Pangasinan, and the rest of Cordillera Administrative Region</li></ul> In addition, Typhoon BETTY will also <b>enhance the Southwest Monsoon</b> this week: <ul style="list-style-type: none"><li>• <b>Tomorrow:</b> Monsoon rains are possible over the western portions of MIMAROPA and Western Visayas</li><li>• <b>Tuesday:</b> Monsoon rains are likely over the western portions of MIMAROPA and Western Visayas</li><li>• <b>Wednesday:</b> Monsoon rains are likely over the western portions of MIMAROPA and Western Visayas.</li></ul> Under these conditions, <b>flooding and rain-induced landslides are likely</b> , especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.



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<b>HAZARDS AFFECTING LAND AREAS</b>	
<b>Severe Winds</b>	<ul style="list-style-type: none"><li>Minimal to minor impacts caused by strong winds (i.e., strong breeze to near gale strength) are possible within any of the areas where Tropical Cyclone Wind Signal No.1 is currently in effect. Such conditions may begin tonight or tomorrow.</li><li>Wind Signal No. 2 remains the most likely highest wind signal that will be hoisted, while Wind Signal No. 3 remains the reasonable worst-case scenario.</li><li>The enhanced Southwest Monsoon may also bring occasionally gusts reaching strong breeze to near gale strength beginning tonight or tomorrow morning over most of Visayas, the eastern portion of Central Luzon, the eastern and southern portion of Southern Luzon, and the northern portion of Mindanao. The western portion of Luzon may also experience similar conditions beginning on Tuesday or Wednesday.</li></ul>
<b>HAZARDS AFFECTING COASTAL WATERS</b>	
Under the influence of BETTY, a <b>marine gale warning remains in effect</b> over the northern and eastern seaboard of Northern Luzon, eastern seaboard of Central and Southern Luzon, and the eastern seaboard of Visayas and Mindanao. For more information, refer to <b>Gale Warning #2</b> issued at 5:00 AM today.	
<b>TRACK AND INTENSITY OUTLOOK</b>	
<ul style="list-style-type: none"><li>BETTY will move west northwestward or northwestward until tomorrow while gradually decelerating. The typhoon will likely become slow-moving to almost stationary by Tuesday while over the waters east of Batanes. It will then move northward or north northeastward by mid Wednesday or Thursday towards the sea east of Taiwan.</li><li>This typhoon will likely remain as a typhoon throughout the forecast period, although it is expected to gradually weaken until Tuesday. Afterwards, increasingly unfavorable environment while moving northward or north northeastward on Wednesday or Thursday will result in a faster weakening rate. BETTY may be downgraded to severe tropical storm category on late Thursday or early Friday.</li></ul>	

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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