



**TROPICAL CYCLONE BULLETIN NR. 4**  
**Tropical Depression QUERUBIN**

Issued at 11:00 AM, 18 December 2024

Valid for broadcast until the next bulletin at 5:00 PM today.

**“QUERUBIN” CONTINUES TO MOVE OVER THE WATERS EAST OF MINDANAO AS IT MAINTAINS STRENGTH.**

<b>Location of Center (10:00 AM)</b>	
The center of Tropical Depression QUERUBIN was estimated based on all available data at <b>195 km East of Hinatuan, Surigao del Sur (8.5°N, 128.1°E).</b>	
<b>Intensity</b>	
Maximum sustained winds of <b>45 km/h</b> near the center, gustiness of up to <b>55 km/h</b> , and central pressure of <b>1006 hPa</b>	
<b>Present Movement</b>	
<b>North northeastward at 10 km/h</b>	
<b>Extent of Tropical Cyclone Winds</b>	
<b>Strong winds</b> extend outwards up to <b>180 km</b> from the center	

**TRACK AND INTENSITY FORECAST**

Date and Time	Center Position		Location	Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)		MSW (km/h)	Cat.	
<b>12-Hour Forecast</b> 8:00 PM 18 December 2024	8.8	127.8	170 km East Northeast of Hinatuan, Surigao del Sur	45	TD	NNW 10
<b>24-Hour Forecast</b> 8:00 AM 19 December 2024	9.4	127.4	215 km East Southeast of Surigao City, Surigao del Norte	-	LOW	NNW 10

**TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT**

TCWS No.	Luzon	Visayas	Mindanao
<b>1</b>	-	-	<b>Surigao del Sur</b>
Wind threat: <b>Strong winds</b>	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>		

Prepared by: LDG

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 Checked by: **MAGGE**

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### HAZARDS AFFECTING LAND AREAS

#### Heavy Rainfall Outlook

The Shear Line and QUERUBIN (and their interaction) will potentially bring heavy or intense rainfall over several areas in Visayas and Mindanao, even those far from the projected path of the tropical depression. **Refer to Weather Advisory No. 9 issued at 11:00 AM today for the heavy rainfall outlook due to Shear Line and Tropical Cyclone QUERUBIN.**

#### Severe Winds

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.

- **Minimal to minor impacts** from strong winds are possible within any of the areas under Wind Signal No. 1.

The highest Wind Signal which may be hoisted during the occurrence of QUERUBIN is **Wind Signal No. 1.**

### HAZARDS AFFECTING COASTAL WATERS

#### 24-Hour Sea Condition Outlook

##### **Up to very rough seas over the following coastal waters:**

- **Up to 4.5 m:** The seaboard of Batanes, Cagayan including Babuyan Islands, and the northern seaboard of Ilocos Norte
- **Sea travel is risky for all types or tonnage of vessels. All mariners must remain in port or, if underway, seek shelter or safe harbor as soon as possible until winds and waves subside.**

##### **Up to rough seas over the following coastal waters:**

- **Up to 4.0 m:** The seaboard of Isabela, Aurora, Quezon including Polillo Islands, the eastern seaboard of Camarines Norte, Catanduanes, Albay, and Sorsogon
- **Up to 3.5 m:** The western seaboard of Ilocos Norte, the northern and eastern seaboard of Northern Samar; and Eastern Samar
- **Up to 3.0 m:** The remaining seaboard of Ilocos Region; the seaboard of Kalayaan Islands; the eastern seaboard of Dinagat Islands and Siargao Islands.
- **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.**

##### **Up to moderate seas over the following coastal waters:**

- **Up to 2.5 m:** The eastern seaboard of Camarines Sur and Davao Oriental; the western seaboard of mainland Palawan; the seaboard of Surigao del Sur and Cuyo Islands.
- **Up to 2.0 m:** The western seaboard of Zambales, Occidental Mindoro including Lubang Islands, and Aklan; the remaining seaboard of Quezon; the seaboard of Oriental Mindoro, Marinduque, and Antique; the southeastern seaboard of Batangas; the northern and western seaboard of Romblon.
- **Mariners of motorbancas and similarly-sized vessels are advised to take precautionary measures while venturing out to sea and, if possible, avoid navigation under these conditions.**

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Republic of the Philippines  
 DEPARTMENT OF SCIENCE AND TECHNOLOGY  
**Philippine Atmospheric, Geophysical and Astronomical  
 Services Administration (PAGASA)**  
 Weather Division



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### TRACK AND INTENSITY OUTLOOK

- QUERUBIN is forecast to move generally north northwestward or northward over the waters east of Mindanao within the next 24 hours. During the same period, QUERUBIN will also weaken into a remnant low pressure area. Tomorrow through Sunday (**22 December**), the remnant low pressure area of QUERUBIN will traverse Mindanao, Sulu Sea, and Palawan. Due to the weak nature of its circulation, the track forecast of QUERUBIN may still shift within the limit of the forecast confidence cone.
- Although a weakening scenario is expected, possible re-development into a tropical depression may occur once the remnant low of QUERUBIN reaches the West Philippine Sea.

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 5:00 PM today.

**DOST-PAGASA**

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