



## TROPICAL CYCLONE BULLETIN NO. 14

### Typhoon KARDING (NORU)

Issued at 5:00 AM, 25 September 2022

Valid for broadcast until the next bulletin at 8:00 AM today

#### TYPHOON "KARDING" CONTINUES TO UNDERGO RAPID INTENSIFICATION

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

The center of the eye of Typhoon KARDING was estimated based on all available data including those from Daet and Baler Doppler Weather Radars at **285 km East of Infanta, Quezon (15.0°N, 124.3°E)**

##### Intensity

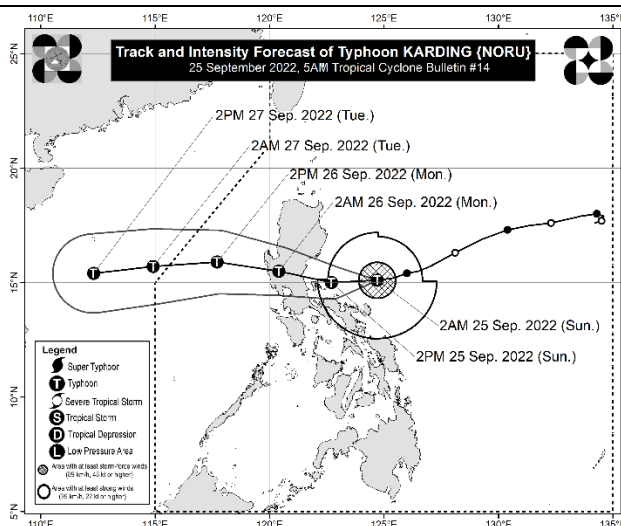
Maximum sustained winds of **155 km/h** near the center, gustiness of up to **190 km/h**, and central pressure of **955 hPa**

##### Present Movement

**West southwestward at 25 km/h**

##### Extent of Tropical Cyclone Winds

**Strong to typhoon-force winds** extend outwards up to **290 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 25 September 2022	15.0	122.7	Over the coastal waters of Jomalig, Quezon	175	TY	W 20
<b>24-Hour Forecast</b> 2:00 AM 26 September 2022	15.5	120.4	In the vicinity of San Jose, Tarlac	130	TY	WNW 20
<b>36-Hour Forecast</b> 2:00 PM 26 September 2022	15.9	117.7	285 km West of Dagupan City, Pangasinan	130	TY	W 25
<b>48-Hour Forecast</b> 2:00 AM 27 September 2022	15.7	114.9	545 km West of Iba, Zambales (Outside the PAR)	140	TY	W 25
<b>60-Hour Forecast</b> 2:00 PM 27 September 2022	15.4	112.3	825 km West of Central Luzon (Outside the PAR)	150	TY	W 25



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>3</b> Wind threat: <b>Storm-force</b> winds	<b>The central and southern portions of Aurora</b> (Dingalan, San Luis, Baler, Maria Aurora, Dipaculao), <b>the extreme northern portion of Quezon</b> (General Nakar, Infanta, Real) <b>including Polillo Islands, the eastern portion of Nueva Ecija</b> (City of Gapan, Bongabon, Gabaldon, Laur, General Tinio, Palayan City, Santa Rosa, Peñaranda, Cabanatuan City, San Leonardo), <b>the eastern portion of Bulacan</b> (Norzagaray, Doña Remedios Trinidad, Angat, San Rafael, San Ildefonso, San Miguel), <b>the northern portion of Rizal</b> (Rodriguez, Tanay), and <b>the northern portion of Camarines Norte</b> (Vinzons, Paracale, Jose Panganiban, Capalonga)	-	-
	Warning lead time: <b>18 hours</b> Potential impacts of winds: <b>Moderate to significant threat to life and property</b>		
<b>2</b> Wind threat: <b>Gale-force</b> winds	<b>The southern portion of Isabela</b> (Dinapigue, San Guillermo, Echague, San Agustin, Jones), <b>Quirino, Nueva Vizcaya, Benguet, La Union, Pangasinan, Zambales, Bataan, Tarlac, Pampanga, the rest of Bulacan, the rest of Nueva Ecija, the rest of Aurora, Metro Manila, Cavite, Batangas, Laguna, the rest of Rizal, the northern and central portions of Quezon</b> (Mauban, Calauag, Perez, Alabat, Quezon, Tagkawayan, Guinayangan, Sampaloc, Lucban, City of Tayabas, Lucena City, Pagbilao, Padre Burgos, Atimonan, Agdangan, Unisan, Plaridel, Gumaca, Lopez, Pitogo, Dolores, Candelaria, Sariaya, Tiaong, San Antonio, Macalelon, General Luna, Catanaun, Buenavista), <b>the rest of Camarines Norte, the northern portion of Camarines Sur</b> (Del Gallego, Ragay, Lupi, Sipocot, Libmanan, Pamplona, Pasacao, San Fernando, Pili, Minalabac, Ocampo, Tigaon, Cabusao, Magarao, Gainza, Canaman, Camaligan, Milaor, Naga City, Bombon, Calabanga, Tinambac, Siruma, Goa, Lagonoy, San Jose, Garchitorena, Presentacion, Caramoan, Sagñay), and <b>Catanduanes</b>	-	-
	Warning lead time: <b>24 hours</b> Potential impacts of winds: <b>Minor to moderate threat to life and property</b>		
<b>1</b> Wind threat: <b>Strong</b> winds	<b>The southern portion of Cagayan</b> (Tuao, Solana, Enrile, Tuguegarao City, Iguig, Peñablanca), <b>the rest of Isabela, the southern portion of Apayao</b> (Conner), <b>Kalinga, Abra, Mountain Province, Ifugao, the southern portion of Ilocos Norte</b> (Nueva Era, Badoc, Pinili, Banna, City of Batac, Currimao, Paoay, Marcos), <b>Ilocos Sur, the rest of Quezon, the northern portion of Occidental Mindoro</b> (Abra de Ilog, Paluan, Mamburao, Santa Cruz) <b>including Lubang Islands, the northern portion of Oriental Mindoro</b> (Puerto Galera, San Teodoro, Baco, City of Calapan, Naujan, Victoria, Pola, Socorro, Pinamalayan), <b>Marinduque, the rest of Camarines Sur, Albay, Sorsogon, Burias Island and Ticao Island</b>	-	-
	Warning lead time: <b>36 hours</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		



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#### HAZARDS AFFECTING LAND AREAS

##### Heavy Rainfall

- *This early morning through early afternoon:* Moderate to heavy rains over Isabela, Polillo Islands, Catanduanes, Camarines Norte, Camarines Sur, and Isabela. Light to moderate with at times heavy rains over mainland Cagayan, Quirino, Nueva Vizcaya, Aurora, Quezon, Marinduque, Romblon, and the rest of Bicol Region.
- *This early afternoon through tomorrow early morning:* Heavy to intense with at times torrential rains over Metro Manila, Zambales, Bataan, Tarlac, Pampanga, Nueva Ecija, Bulacan, Aurora, Rizal, and the northern portion of Quezon including Polillo Islands. Moderate to heavy with at times intense rains over Isabela, Nueva Vizcaya, Quirino, Benguet, Ifugao, Mountain Province, Pangasinan, Cavite, Laguna, the central portion of Quezon, and Camarines Norte. Light to moderate with at times heavy rains over Mindoro Provinces, Marinduque, and the rest of CALABARZON and Bicol Region.
- *Tomorrow early morning through early afternoon:* Heavy to intense with at times torrential rains over Zambales, Bataan, Pampanga, and Bulacan. Moderate to heavy with at times intense rains Metro Manila, Pangasinan, Cavite, Occidental Mindoro, and the rest of Central Luzon. Light to moderate with at times heavy rains over Mountain Province, Ifugao, Benguet, Quirino, Nueva Vizcaya, Oriental Mindoro, and the rest of CALABARZON.
- Under these conditions, **scattered to widespread flooding and rain-induced landslides are expected**, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities with significant antecedent rainfall.
- Due to the Southwest Monsoon enhanced by KARDING, occasional to monsoon rains are also possible over Visayas and the rest of Southern Luzon, especially on their western sections. For more information, refer to the 24-Hour Public Weather Forecast issued at 4:00 PM yesterday. Furthermore, the issuance of Weather Advisory for Southwest Monsoon is not ruled out.

##### Severe Winds

- **The hoisting of Wind Signal No. 5 is increasingly likely.**
- In anticipation of the potential onset of typhoon-force winds, **Wind Signal No. 4 will be hoisted in the next bulletin.**
- During the passage of KARDING, winds may reach **storm-force** in strength within any of the areas where Wind Signal No. 3 is hoisted, while winds may reach **gale-force in strength** within any of the areas where Wind Signal no.2 is hoisted. **Strong winds (strong breeze to near gale strength)** will be experienced within any of the areas where Wind Signal No. 1 is currently in effect.

##### Coastal Inundation

The combined effects of storm surge and high waves breaking along the coast may cause inundation or flooding over the moderate to high-risk coastal areas of Aurora, Quezon (east coast, including Polillo Islands), and Camarines Norte.

#### HAZARDS AFFECTING COASTAL WATERS

- Under the influence of KARDING, a marine gale warning remains in effect over the eastern and western seaboard of Luzon. For more information, refer to **Gale Warning #3** issued at 5:00 AM.
- In the next 24 hours, KARDING and the enhanced Southwest Monsoon will also bring **moderate to rough seas** over the northern and western seaboard of Luzon that are not under any gale warning (1.5 to 3.5 m) and the western seaboard of Visayas (1.2 to 2.5 m). These conditions may be risky for those using small seacrafts. Mariners are advised to take precautionary measures when venturing out to sea and, if possible, avoid navigating in these conditions.



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#### **TRACK AND INTENSITY OUTLOOK**

- Typhoon KARDING is forecast to track generally west southwestward or westward in the next 6 to 12 hours, then westward or northwestward for the remainder of the day. On the forecast track, KARDING will likely make landfall in the vicinity of the northern portion of Quezon or the southern portion of Aurora tonight. The possibility of an earlier (afternoon) landfall or close approach in the vicinity of Polillo Islands is not ruled out.
- For the remainder of this evening post-landfall through tomorrow early morning, KARDING will traverse the landmass of Central Luzon and emerge over the West Philippine Sea via the coastal waters of Zambales or Pangasinan. The typhoon will then continue tracking generally westward over the West Philippine Sea for the remainder of the forecast period.
- KARDING is forecast to continue intensifying prior to landfall. **A landfall scenario as a super typhoon is increasingly likely.** Frictional effects during landfall and traverse of the Luzon landmass will weaken KARDING throughout the evening through tomorrow early morning, although it is highly likely that this tropical cyclone will remain a typhoon while crossing the landmass.

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 8:00 AM today.

**DOST-PAGASA**

Prepared by:  **RPG**

Checked by:  **JEMB**