



**TROPICAL CYCLONE BULLETIN NR. 9**  
**Tropical Storm KRISTINE (TRAMI)**

Issued at 5:00 AM, 23 October 2024

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

**“KRISTINE” SLIGHTLY INTENSIFIES OVER THE SEA EAST OF QUEZON**

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

The center of Tropical Storm KRISTINE was estimated based on all available data at **340 km East of Infanta, Quezon or 180 km North Northeast of Virac, Catanduanes (15.1°N, 124.8°E)**

**Intensity**

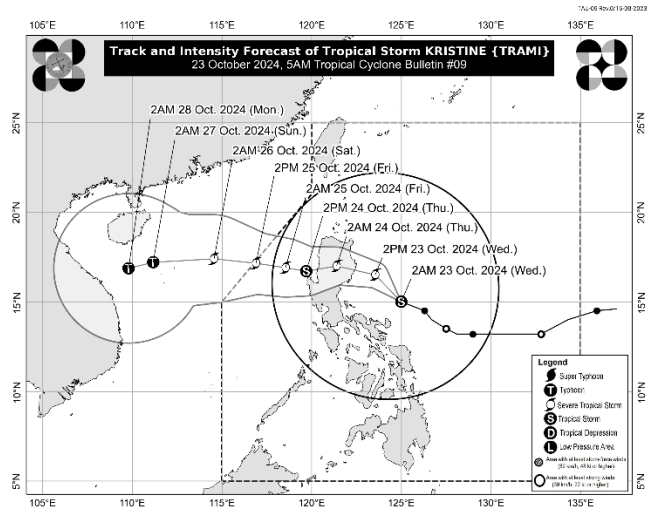
Maximum sustained winds of **85 km/h** near the center, gustiness of up to **105 km/h**, and central pressure of **985 hPa**

**Present Movement**

**West northwestward at 25 km/h**

**Extent of Tropical Cyclone Winds**

**Strong to gale-force winds** extend outwards up to **850 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 23 October 2024	16.5	123.6	160 km East of Casiguran, Aurora	95	STS	NW 20
<b>24-Hour Forecast</b> 2:00 AM 24 October 2024	17.0	121.4	In the vicinity of Aginaldo, Ifugao	95	STS	WNW 20
<b>36-Hour Forecast</b> 2:00 PM 24 October 2024	16.7	119.7	Over the coastal waters of Bolinao, Pangasinan	85	TS	W 15
<b>48-Hour Forecast</b> 2:00 AM 25 October 2024	16.9	118.6	190 km West of Bacnotan, La Union	95	STS	W 10
<b>60-Hour Forecast</b> 2:00 PM 25 October 2024	17.2	116.9	375 km West of Bacnotan, La Union	95	STS	W 15
<b>72-Hour Forecast</b> 2:00 AM 26 October 2024	17.4	114.6	620 km West of Bacnotan, La Union (OUTSIDE PAR)	100	STS	W 20
<b>96-Hour Forecast</b> 2:00 AM 27 October 2024	17.2	111.2	980 km West of Northern Luzon (OUTSIDE PAR)	120	TY	W 15
<b>120-Hour Forecast</b> 2:00 AM 28 October 2024	16.9	109.8	1,130 km West of Northern Luzon (OUTSIDE PAR)	120	TY	WSW Slowly

Prepared by: *PCDM*

Checked by: *BJNE*

“tracking the sky...helping the country.”




**TROPICAL CYCLONE BULLETIN NR. 9**  
**Tropical Storm KRISTINE (TRAMI)**

Issued at 5:00 AM, 23 October 2024

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

TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<p style="text-align: center;"><b>2</b></p> <p>Wind threat:  <b>Gale-force winds</b></p>	<p><b>Ilocos Norte, Ilocos Sur, La Union, Pangasinan, Apayao, Abra, Kalinga, Mountain Province, Ifugao, Benguet, mainland Cagayan, Isabela, Quirino, Nueva Vizcaya, Aurora, Nueva Ecija, Tarlac, the northern portion of Zambales (Santa Cruz, Candelaria, Masinloc, Palauig), the northern portion of Bulacan (Doña Remedios Trinidad, San Miguel, San Ildefonso), the northern portion of Quezon (General Nakar, Infanta) including Polillo Islands, Camarines Norte, the northern and eastern portions of Camarines Sur (Calabanga, Goa, Tigaon, Sagñay, San Jose, Lagonoy, Tinambac, Siruma, Garchitorena, Presentacion, Caramoan), Catanduanes, the eastern portion of Albay (Rapu-Rapu, Bacacay, City of Tabaco, Malilipot, Malinao, Tiwi, Manito, Santo Domingo) and the eastern portion of Sorsogon (Barcelona, Gubat, Prieto Diaz, City of Sorsogon)</b></p>	<p><b>The northeastern portion of Northern Samar (Palapag, Mapanas, Gamay, Laoang, Catubig, Lapinig, Pambujan, San Roque) and the northern portion of Eastern Samar (Jipapad, San Policarpo, Arteche)</b></p>	-
	<p>Warning lead time: <b>24 hours</b>                      Range of wind speeds: <b>62 to 88 km/h (Beaufort 8 to 9)</b>                      Potential impacts of winds: <b>Minor to moderate threat to life and property</b></p>		

Prepared by:  PCDM

Page 2 of 5  
 Checked by:  BJNE

*"tracking the sky...helping the country."*




**TROPICAL CYCLONE BULLETIN NR. 9**  
**Tropical Storm KRISTINE (TRAMI)**

Issued at 5:00 AM, 23 October 2024

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

TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<p style="text-align: center;"><b>1</b></p> <p>Wind threat:  <b>Strong winds</b></p>	<p><b>Batanes, Babuyan Islands, Pampanga, the rest of Zambales, Bataan, the rest of Bulacan, Metro Manila, Rizal, Cavite, Laguna, Batangas, the rest of Quezon, Occidental Mindoro including Lubang Islands, Oriental Mindoro, Marinduque, Romblon, Calamian Islands, the rest of Camarines Sur, the rest of Albay, the rest of Sorsogon, and Masbate including Ticao and Burias Islands</b></p>	<p><b>Aklan, Capiz, Antique including Caluya Islands, Iloilo, Guimaras, the northern portion of Negros Occidental</b> (Pontevedra, La Castellana, Moises Padilla, Bago City, La Carlota City, Valladolid, Pulupandan, Bacolod City, San Enrique, Murcia, Silay City, City of Talisay, Enrique B. Magalona, Manapla, City of Victorias, Cadiz City, Sagay City, City of Escalante, Toboso, Calatrava, Salvador Benedicto, San Carlos City), <b>the northern portion of Negros Oriental</b> (Vallehermoso, Canlaon City, City of Guihulngan), <b>the northern and central portions of Cebu</b> (Alcantara, Argao, Dumanjug, Sibonga, Pinamungahan, Ronda, Liloan, Cebu City, Moalboal, Consolacion, Danao City, Borbon, Carmen, Daanbantayan, Tuburan, City of Bogo, Tabogon, City of Naga, Lapu-Lapu City, City of Carcar, Mandaue City, Catmon, Minglanilla, Toledo City, Cordova, Compostela, San Remigio, Balamban, Aloguinsan, San Fernando, Asturias, Barili, Medellin, Sogod, Tabuelan, City of Talisay) <b>including Bantayan Islands and Camotes Islands, Bohol, the rest of Eastern Samar, the rest of Northern Samar, Samar, Leyte, Biliran, and Southern Leyte</b></p>	<p><b>Dinagat Islands and Surigao del Norte including Siargao - Bucas Grande Group</b></p>

Prepared by:  PCDM

Page 3 of 5  
 Checked by:  BJNE

*"tracking the sky...helping the country."*



**TROPICAL CYCLONE BULLETIN NR. 9**  
**Tropical Storm KRISTINE (TRAMI)**

Issued at 5:00 AM, 23 October 2024

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

**OTHER HAZARDS AFFECTING LAND AREAS**

**Heavy Rainfall Outlook**

Refer to Weather Advisory No. 10 issued at 5:00 AM today for the heavy rainfall outlook due to "KRISTINE".

**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.

- **Minor to moderate impacts** from gale-force 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.

The highest Wind Signal which may be hoisted during the occurrence of KRISTINE is **Wind Signal No. 3**.

Furthermore, the wind flow coming towards the circulation of KRISTINE and the Northeasterly Windflow will also bring **strong to gale-force gusts** over the following areas (especially in coastal and upland areas exposed to winds):

- **Today (23 October):** MIMAROPA, Visayas, and Mindanao.
- **Tomorrow (24 October):** MIMAROPA, Bicol Region, Visayas, Basilan, Sulu, Tawi-Tawi, Zamboanga del Norte, Lanao del Sur, Northern Mindanao, Dinagat Islands, Surigao del Norte, Davao del Sur, and Davao Oriental.
- **Friday (25 October):** MIMAROPA, Bicol Region, Western Visayas, Negros Occidental, Zamboanga del Norte, Basilan, Sulu, and Tawi-Tawi.

**Coastal Inundation**

There is a **moderate to significant risk of life-threatening storm surge** in the next 48 hours over the low-lying or exposed coastal localities of Ilocos Norte, Ilocos Sur, La Union, Pangasinan, Cagayan, Isabela, Zambales, Aurora, and Catanduanes. For more information, refer to Storm Surge Warning No. 4 issued at 2:00 AM today.



## TROPICAL CYCLONE BULLETIN NR. 9 Tropical Storm KRISTINE (TRAMI)

Issued at 5:00 AM, 23 October 2024

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

### HAZARDS AFFECTING COASTAL WATERS

**A Gale Warning is hoisted over the seaboard of Luzon and Visayas.** For more information, refer to Gale Warning No. 5 issued at 5:00 AM today.

#### 24-Hour Sea Condition Outlook

- **Up to high seas over the following coastal waters:**
  - **Up to 8.0 m:** The seaboard of Batanes, Cagayan including Babuyan Islands, Ilocos Norte, and Ilocos Sur.
  - **Up to 7.0 m:** The seaboard of La Union, Pangasinan, Isabela, northern Aurora, Camarines Norte, Catanduanes, and the northern and eastern seaboard of Camarines Sur.
  - **Up to 6.0 m:** The remaining seaboard of Aurora, the seaboard of Quezon including Polillo Islands, and the seaboard of Northern Samar.
  - **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 very rough seas over the following coastal waters:**
  - **Up to 5.0 m:** The seaboard of Bataan, Batangas, Occidental Mindoro including Lubang Islands, Oriental Mindoro, Marinduque, Romblon, Calamian Islands, Cuyo Islands, Cagayancillo Islands, Zamboanga del Norte, Camiguin, Dinagat Islands, and the remaining seaboard of Bicol Region and Visayas.
  - **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 Northern Mindanao, Surigao del Norte including Siargao and Bucas Grande Island Group, and Davao Oriental.
  - **Up to 3.0 m:** Surigao del Sur and the remaining seaboard of Luzon.
  - **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 remaining seaboard of Mindanao.
  - **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.**


### TRACK AND INTENSITY OUTLOOK


- KRISTINE is forecast to move generally northwestward for the next 24 hours before turning generally westward for the rest of the forecast period. It is forecast to make landfall over Isabela or northern Aurora this evening or tomorrow (24 October) early morning. It will then cross the mountainous terrain of Northern Luzon and emerge over the waters west of Ilocos Region tomorrow afternoon. KRISTINE may exit the Philippine Area of Responsibility (PAR) region on Friday (25 October).
- KRISTINE is forecast to gradually intensify into a severe tropical storm before making landfall. Slight weakening will occur while crossing Northern Luzon. Re-intensification may occur over 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 8:00 AM today.

DOST-PAGASA

Prepared by:  PCDM

Page 5 of 5  
 Checked by:  BJNE

*"tracking the sky...helping the country."*