

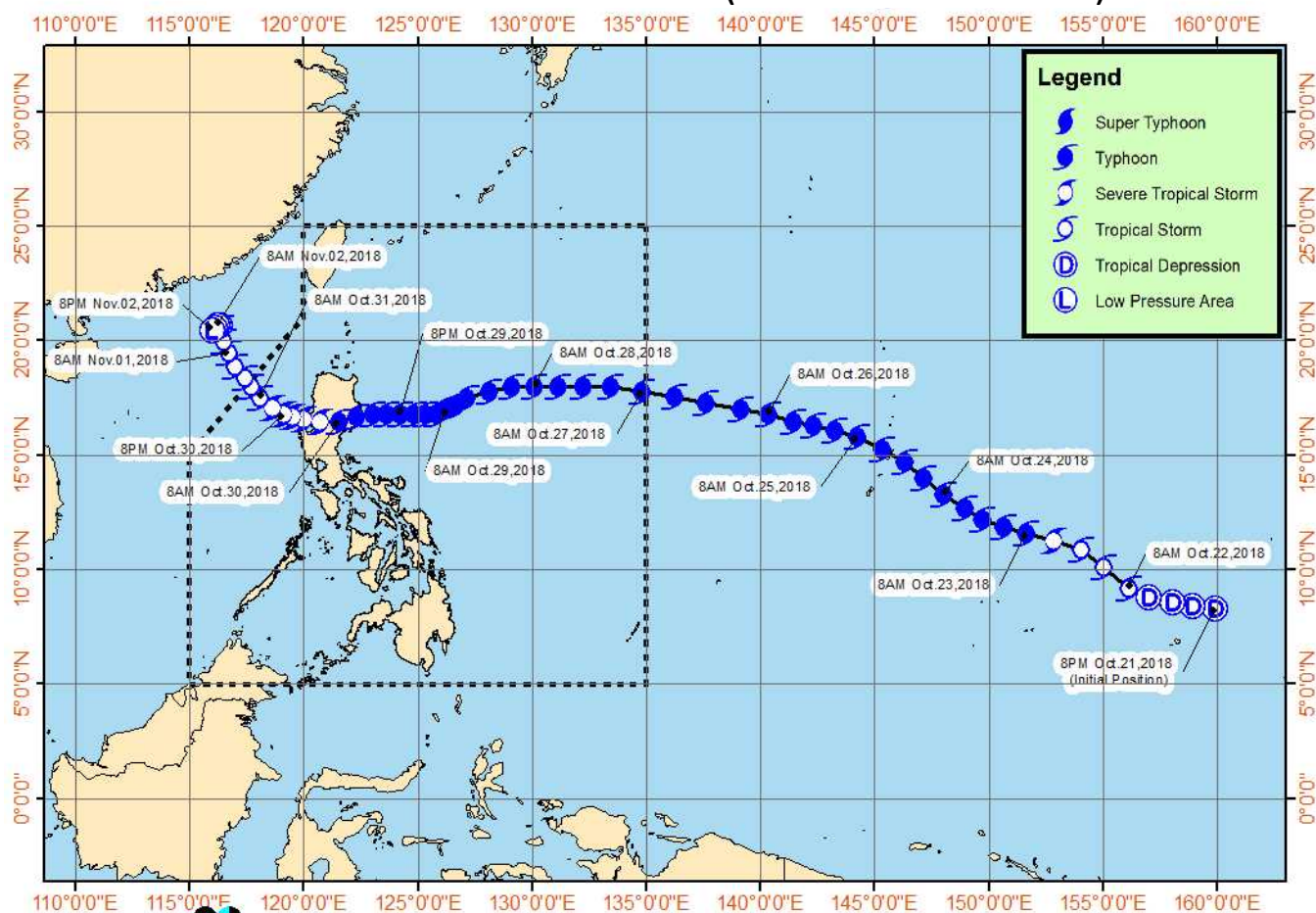


TYPHOON “YUTU” (local name: ROSITA)

25-31 October 2018

Preparation Measures and Early Warning

Best Track of TC YUTU (local name: ROSITA)



Philippine Atmospheric Geophysical and Astronomical Services Administration

- Developed into Tropical Depression at 8:00 PM PHT 21 Oct near Micronesia and intensified into Tropical Storm at 8:00 AM PHT 22 Oct.
- Peak intensity at 8:00 PM PHT 24 Oct (900 hPa, 115 kt)
- Entered PAR as Typhoon at 6:30 AM PHT 27 Oct (920 hPa, 105 kt)
- Landfall at Dinapigue, Isabela at 4:00 AM PHT 30 Oct as Typhoon (955 hPa, 80 kt) and traversed the mountainous regions of Isabela, Quirino, Nueva Viscaya, Benguet and La Union.
- Exit Luzon Landmass as Severe Tropical Storm at 2:00 PM PHT 30 Oct (980 hPa, 55 kt)
- Exit PAR as Tropical Storm at 8:00 PM PHT 31 Oct (992 hPa, 45 kt)
- Weakened into LPA at 8:00 PM PHT 2 Nov (1012 hPa).

Warning Information

A total of forty-four (44) domestic information, in the form of twenty-two (22) severe weather bulletins (SWB) and five (5) tropical cyclone advisories (TCA), and eighteen (18) tropical cyclone warnings for shipping (TCWS) were issued.

- The first TCA was issued on 25 October at 11:00 AM.
- The first SWB was issued on 27 October at 11:00 AM.
- The first PAGASA Press Conference was held on 27 October at 11:00 AM.
- A total of 30 provinces were placed under Tropical Cyclone Warning Signals (TCWS) during the passage of YUTU with the highest being TCWS #3.

As part of disaster preparation activities, the first Pre-Disaster Risk Assessment (PDRA) meeting was held by the National Disaster Risk Reduction and Management Council on 26 October 2018.

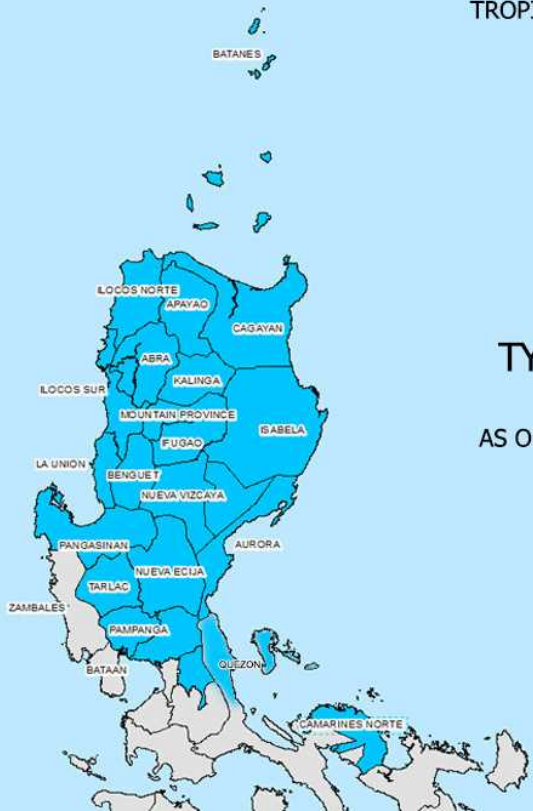
Meanwhile, a total of eighteen (18) tropical cyclone warnings (WTPH20 RPMM) were sent for regional exchange with other meteorological centers via the WMO Global Telecommunications System.

TROPICAL CYCLONE WARNING SIGNAL

- SIGNAL # 5
- SIGNAL # 4
- SIGNAL # 3
- SIGNAL # 2
- SIGNAL # 1



TYPHOON ROSITA
SWB #04
AS OF 11 PM OCTOBER 28, 2018

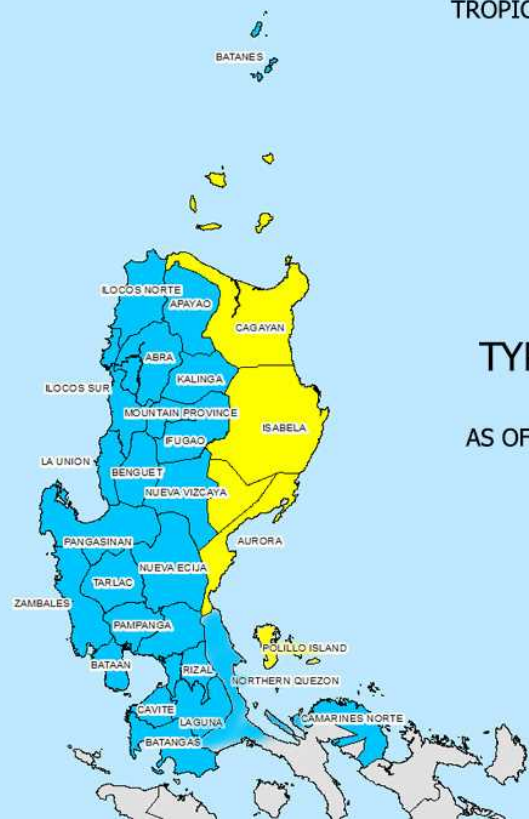


TROPICAL CYCLONE WARNING SIGNAL

- SIGNAL # 5
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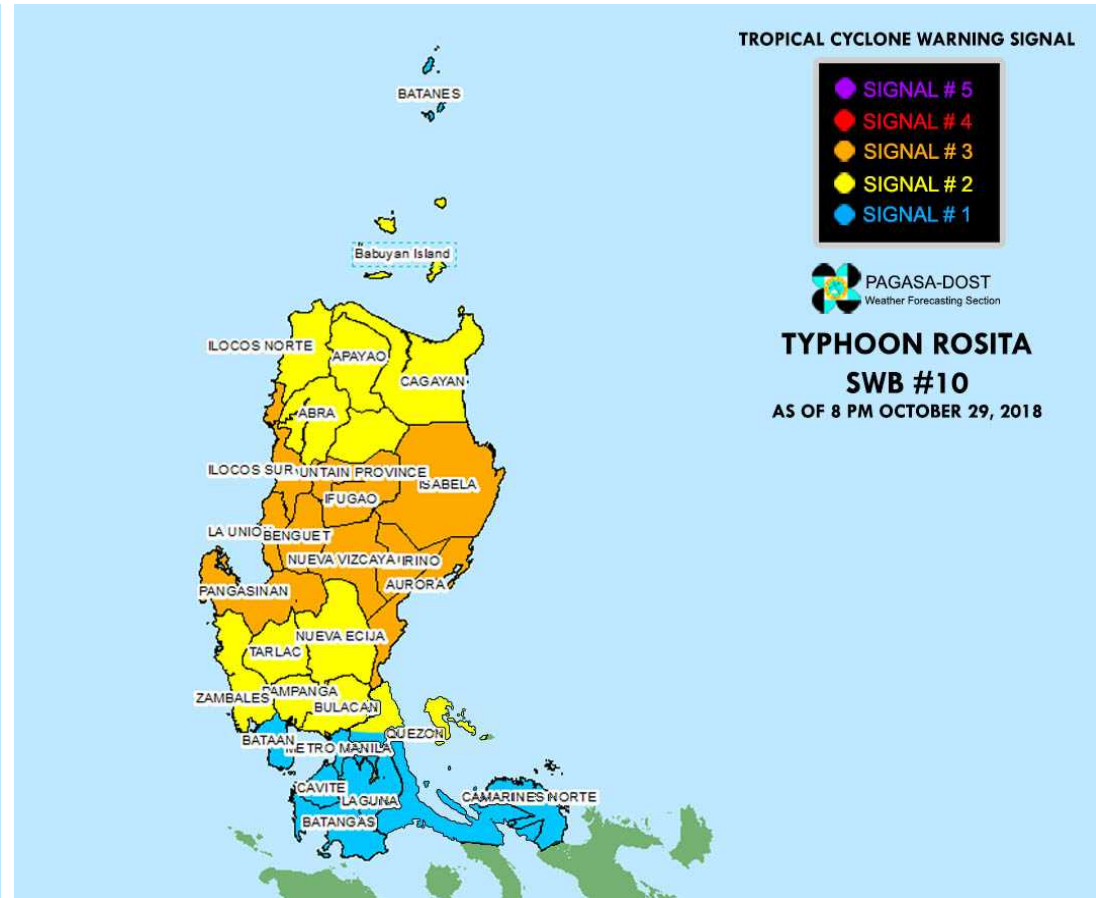
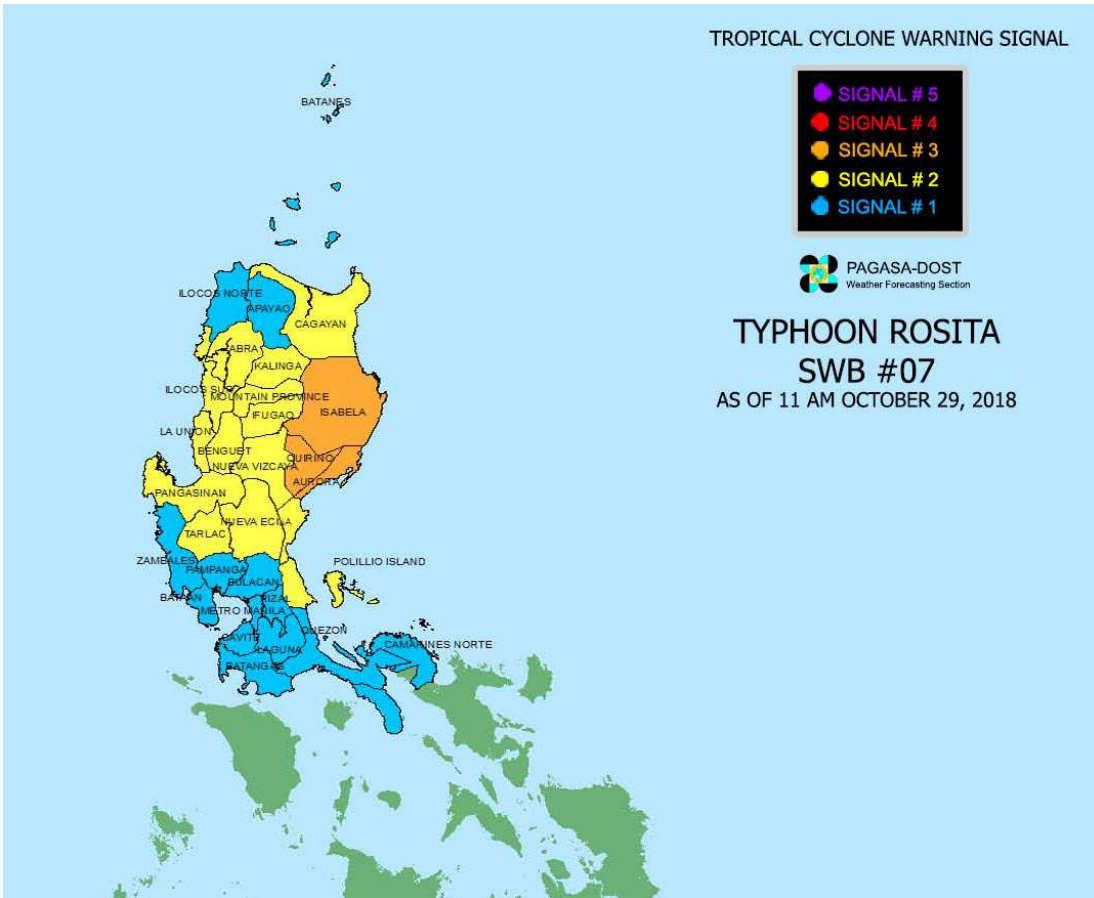


TYPHOON ROSITA
SWB #05
AS OF 5 AM OCTOBER 29, 2018



National Warnings use the local name "ROSITA" instead of "YUTU"





National Warnings use the local name “ROSITA” instead of “YUTU”



**STORM SURGE INFORMATION
STORM SURGE: WARNING #04
FOR: TYPHOON "ROSITA" (YUTU)
ISSUED AT 5 AM, 30 October 2018**

(Valid until the next storm surge information to be issued at **11:00 AM today**)

SS Height	Provinces	Low Lying Coastal Areas in the Municipalities of:	IMPACTS	ADVICE/Actions to Take
2 – 3 meters	Isabela	San Pablo Maconacon Divilacan Ilagan Palanan San Mariano Dinapigue	<ul style="list-style-type: none"> Severe damage to communities, coastal/ marine infrastructures and disruptions to all marine-related activities. Significant erosion to beaches. Possible River flooding due to storm surge. 	<ul style="list-style-type: none"> Evacuation is advised. All marine activities must be cancelled. Public must keep updated with the latest Tropical Cyclone Bulletins and Storm Surge Warnings from PAGASA.
	La Union	Bangar Luna Balaoan Bacnotan San Juan San Fernando City Bauang Caba Aringay Agoo Santo Tomas Rosario		
	Pangasinan	San Fabian Dagupan Binmaley Lingayen Labrador Sual Alaminos Bani Belisario		

National Warning uses the local name "ROSITA" instead of "YUTU"

1-2 meters	Ilocos Sur	Caoayan Cabugao Candon City Magsingal Narvacan San Esteban	<ul style="list-style-type: none"> Moderate to significant damage to communities, coastal/ marine infrastructures and disruptions to all marine-related activities. 	<ul style="list-style-type: none"> Evacuation is advised. All marine activities should be cancelled. Public is advised to follow the latest Tropical Cyclone Bulletins and Storm Surge Warnings from PAGASA.
	Aurora	Dilasag Casiguran Dipaculao Baler San Luis		
<1 meter	Ilocos Norte	Bacarra Badoc Currimao Paoay Laoag Pasuquin	<ul style="list-style-type: none"> Minor damage to communities, coastal/ marine infrastructures and disruptions to all marine-related activities. Flooding is possible in low-lying areas 	<ul style="list-style-type: none"> Public is advised to stay away from the coasts or beaches. Be aware and follow the latest weather updates from PAGASA.
<ul style="list-style-type: none"> The public and the disaster risk reduction and management council concerned are advised to take appropriate actions and precautionary measures, and watch for the next storm surge information to be issued at 11AM today. Inundation/flood depth due to storm surge will depend on the topography of the area(s). 				



Significant Meteorological Observation

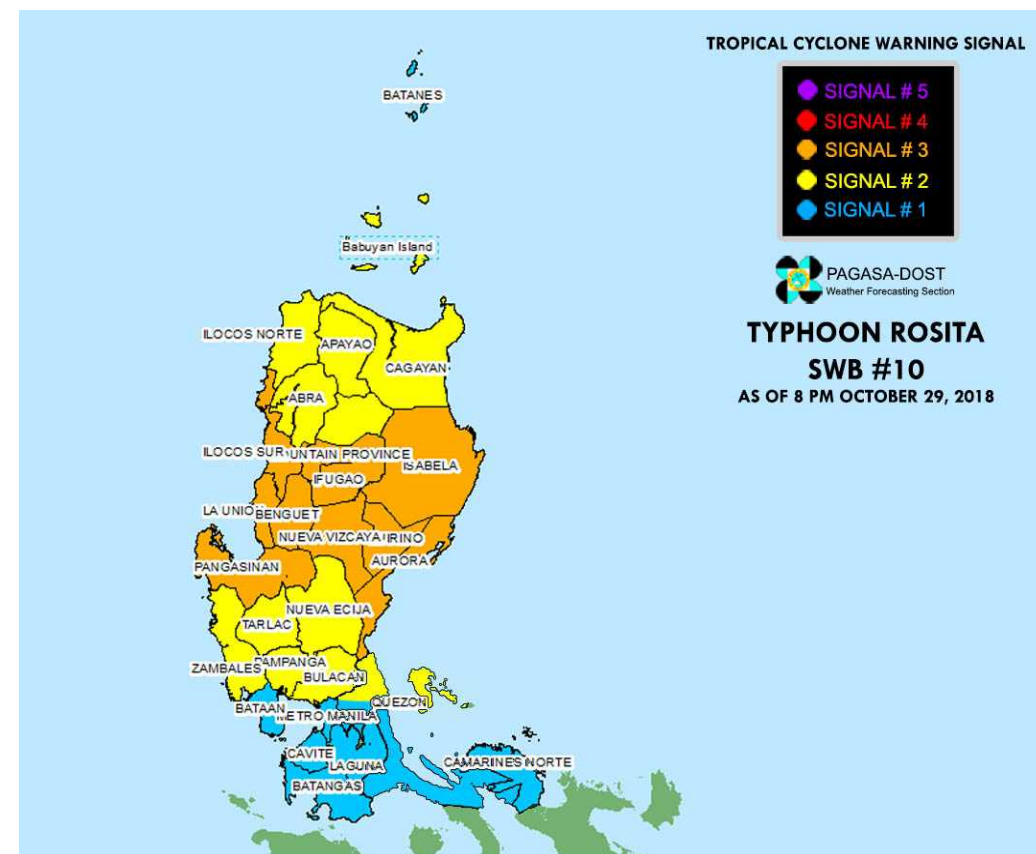
The lowest mean sea level pressure (MSLP) of 951 hPa, during the typhoon passage, was recorded in Bayombong, Nueva Ecija at 9:00 AM on 30 October.

Meanwhile, the highest gust observation of 169 km/h was recorded at Isabela State University station in Echague, Isabela at 6:37 AM of 30 October. Other significant observations are shown in **Table 1**. For comparison, the figure on the right shows the highest warning signal issued during the passage.

Field Station	Mean Sea Level Pressure (hPa)	Peak Gust (km/h)
NVSU, Bayombong, Nueva Vizcaya	951.0	112
ISU, Echague, Isabela	960.0*	169
Casiguran, Aurora	971.8	130
Baguio City, Benguet	985.0	79

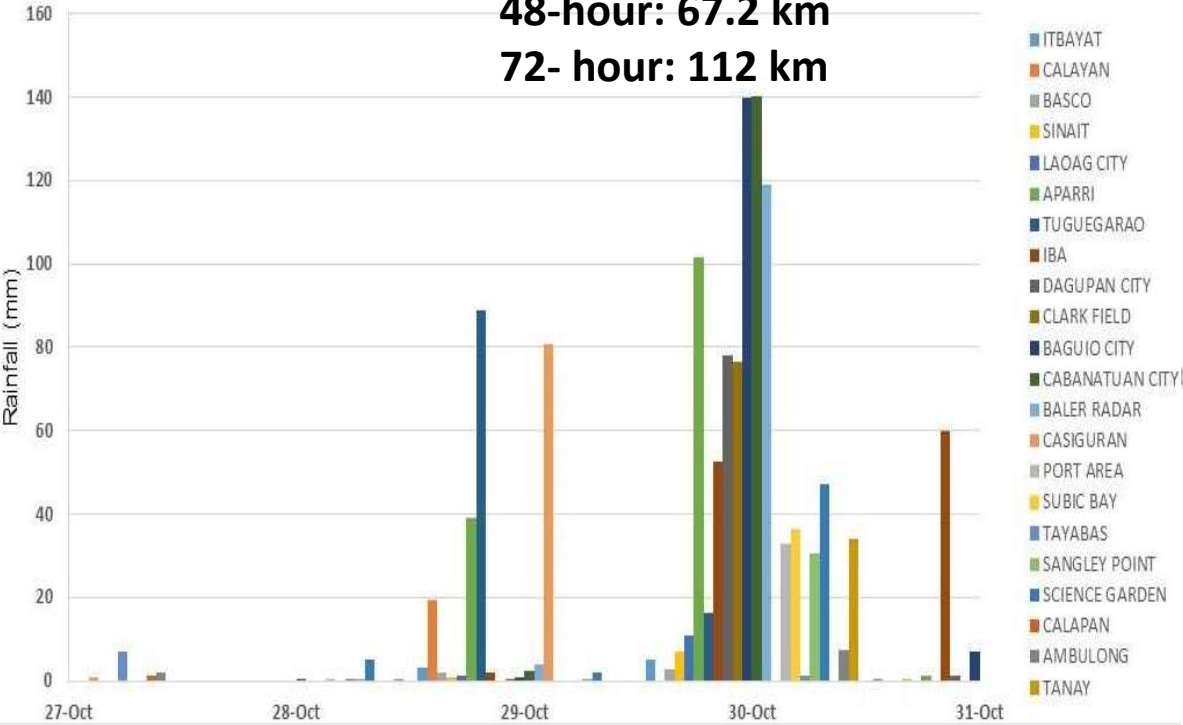
Table 1. Significant wind and pressure observations during the passage.

*obtained using an aneroid barometer

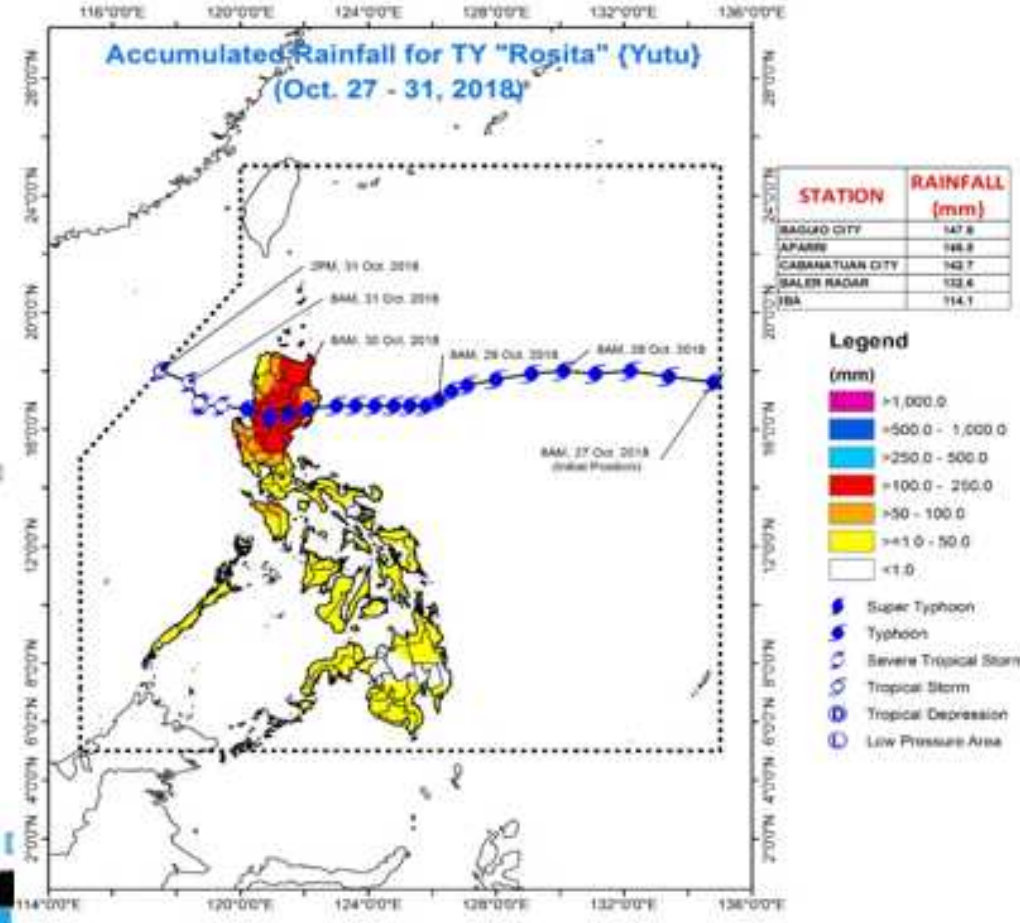


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Forecast Track Error - 24-hour: 28.3 km
48-hour: 67.2 km
72-hour: 112 km



The wettest day during the typhoon passage was 30 October. Baguio and Cabanatuan stations in Northern Luzon recorded the highest 24-hour rainfall (total amount of rainfall in 1 day). Each location had approximately 140 mm of rainfall. This is followed by Baler station at 119 mm.



National information uses the local name "ROSITA". Northern Luzon and the northeastern portion of Central Luzon received the bulk of the rainfall. Baguio City reported the highest 5day total rainfall (147.6 mm). Aparri, Cagayan and Cabanatuan City, Nueva Ecija ranked 2nd and 3rd with 146.8 and 132.6 mm, respectively.



Preliminary Damage Statistics

As of 06 November 2018, a total of eleven (11) dead, two (2) injured and one (1) missing in regions of CALABARZON and CAR. The estimated total cost of damages is P2.9 billion incurred from damages to agriculture in Regions I, II, III and CAR.



One of the many damaged buildings in Santiago, Isabela after the onslaught of typhoon Rosita (Yutu) (Eagle News Service)



The municipality of Tanudan in Kalinga province was affected by floods due to typhoon Rosita's strong rains. (Eagle News Service)







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