

WEDNESDAY

15 DEC 2021

1730 HRS UTC +7

# TYPHOON RAI (ODETTE) PHILIPPINES FLASH UPDATE #1



ONE ASEAN ONE RESPONSE



© 2015-2021 Pacific Disaster Center (PDC) – All rights reserved. Commercial use is permitted only with explicit approval of PDC | 12/14/2021 | <https://emops.pdc.org> | [response@pdc.org](mailto:response@pdc.org) | Population and capital exposure calculated using PDC's All Hazards Impact Model (experimental). Capital exposure represents existing infrastructure exposed to hazard impacts and is not an estimate of losses. Vulnerable population based on pre-existing socio-economic indicators. Key needs based on The Sphere Project | Data: PDC, HDX, UNOCHA, WFP, KinetiCastTC (TAOS Model). Contact [response@pdc.org](mailto:response@pdc.org) for the complete exposure dataset.

## Typhoon Rai: PHILIPPINES (ADVISORY 09, 15 DECEMBER 2021 0300 UTC) Joint Analysis of Disaster Exposure (JADE)



### VULNERABLE POPULATION BREAKDOWN



### BREAKDOWN OF KEY NEEDS



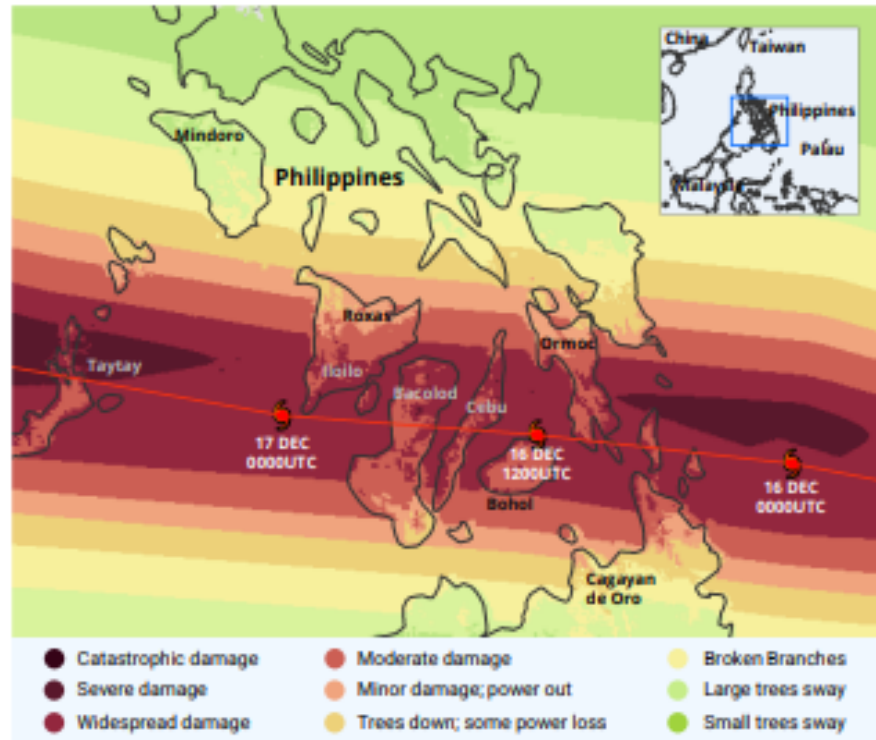
### HOSPITALS EXPOSED



### SCHOOLS EXPOSED



**COST TO REBUILD IN WORST AFFECTED AREAS US\$ 40.9 BILLION**



	PEOPLE LIVING IN AFFECTED AREAS	PEOPLE LIVING IN WORST AFFECTED AREAS	VULNERABLE PEOPLE IN WORST AFFECTED AREAS	AGE BREAKDOWN FOR POPULATIONS IN WORST AFFECTED AREAS			
				0-4 years	5-14 years	15-49 years	65+ years
CEBU CITY, CEBU	990,417	907,909	190,660	100,777	193,384	476,652	43,579
LAPU-LAPU CITY, CEBU	470,229	470,229	98,748	52,195	100,158	246,870	22,571
ILOILO CITY, ILOILO	434,306	434,306	86,861	48,207	92,507	228,010	20,846
TALISAY CITY, CEBU	241,346	241,346	50,682	26,789	51,406	126,707	11,584
BACOLOD CITY, NEGROS OCCIDENTAL	531,520	240,383	69,711	77,884	51,201	126,201	11,538

### DATA SOURCES

ASEAN Disaster Monitoring & Response System (DMRS); Pacific Disaster Center (PDC Global); OCHA; WFP;

Philippines: PAGASA;

Verified news media agencies.

### DISCLAIMER

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## TROPICAL CYCLONE INFORMATION

- **OVERVIEW:** According to the Philippine Atmospheric Geophysical and Astronomical Services Administration ([PAGASA](#)), **Tropical Cyclone (TC) RAI (Odette)** has intensified into a **TYPHOON** as of 0700 HRS UTC +7 of 15 Dec. **TC RAI (Odette)** further intensified while moving west-northwestward at 25 km/h over the Philippine Sea.
- **INTENSITY:** Maximum sustained winds of **130 km/h** near the centre and gustiness of up to **160 km/h**, and central pressure of **970 hPa**. Strong winds or higher extend outwards up to 400 km from the centre.

### • FORECAST

**1.Movement:** forecasted to move west-northwestward until this evening or tomorrow morning then move westwards after. On the forecast track, the centre of the tropical cyclone is expected to make landfall in the vicinity of Caraga or Eastern Visayas tomorrow (16 Dec) afternoon or evening. It is then forecast to move generally westward and cross several provinces in Central and Western Visayas, emerge in Sulu Sea by 17 Dec and cross Northern Palawan before emerging in the West Philippine Sea.

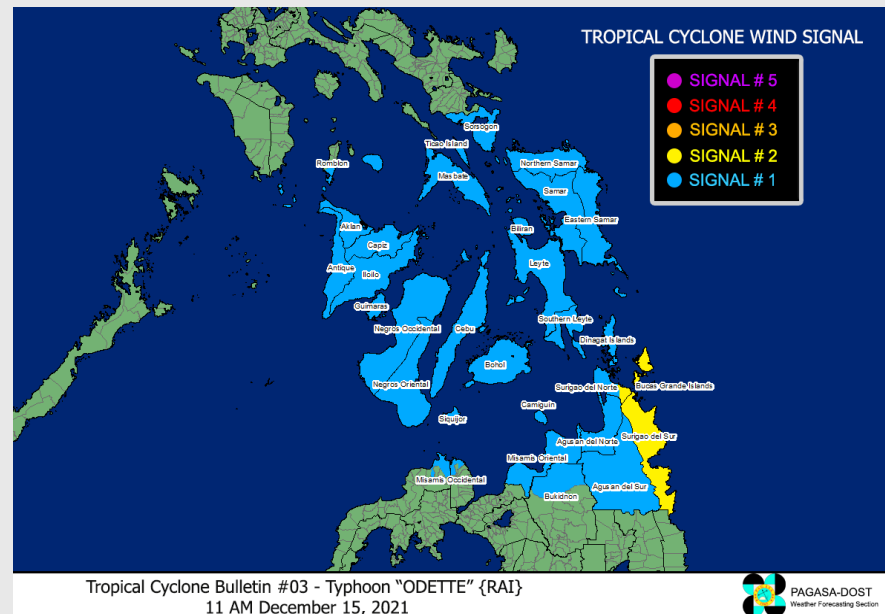
**2.Intensity:** further intensification is expected today through tomorrow (16 Dec) as the typhoon crosses the Philippine Sea and may reach a peak intensity of **155 km/h** prior to making landfall tomorrow afternoon. This tropical cyclone may see some slight weakening as it crosses the Visayas and Palawan, but it is forecast to remain within the typhoon category. Re-intensification is likely once **TC RAI (Odette)** emerges over the West Philippine Sea.

### • EXPOSURE:

- 1.According to the Joint Analysis of Disaster Exposure (JADE) by PDC-Global, WFP, and OCHA, 15.9 Million people live in affected areas, 9.1 Million people in worse affected areas, and **2.1 Million in worst affected areas** (1.3 Million adults (16-65 years old), 700.1K children (<15 years old), 103.7K elderly (>65 years old).
- 2.For key needs, 4.5 Billion, 7.5 Million, and 6.5 Million calories, square feet of shelter and litres of water per day, respectively have been identified.
- 3.117 hospitals, 4,309 schools are exposed and 40.9 Billion USD estimated cost to rebuild in the worst affected areas.

## HAZARD INFORMATION

### • Tropical Cyclone Wind Signal (TCWS)



### • HAZARDS

- 1.Heavy Rainfall** – in 24 hours, light to moderate with at times heavy rains in Caraga, Davao Oriental, Eastern Samar, Samar, and Southern Leyte; in 48 hours, heavy to intense with at times torrential rains in provinces of Caraga region, Central Visayas region, and Southern Leyte; in 72 hours, heavy to intense with at times torrential rains over Western Visayas, northern and central Palawan including Cuyo and Cayancillo Islands. Under these conditions, widespread flooding (including flash floods) and rain-induced landslides are expected in areas identified susceptible in hazard maps and in localities with significant rainfall.
- 2.Severe Winds** – gale- to storm-force strength will be experienced within any of the areas where TCWS no.2 is in effect. This may result in generally light to moderate damage to structures and vegetation. Areas under TCWS will be expanded in succeeding bulletins.