

3 November 2017,
14:00 UTC+7,
(under monitoring)

AHA Centre FLASH UPDATE #2

Tropical Storm Damrey (28)



ONE ASEAN ONE RESPONSE



AHA CENTRE
ASEAN Coordinating Centre
for Humanitarian Assistance
on disaster management

DMRS v5.3.3

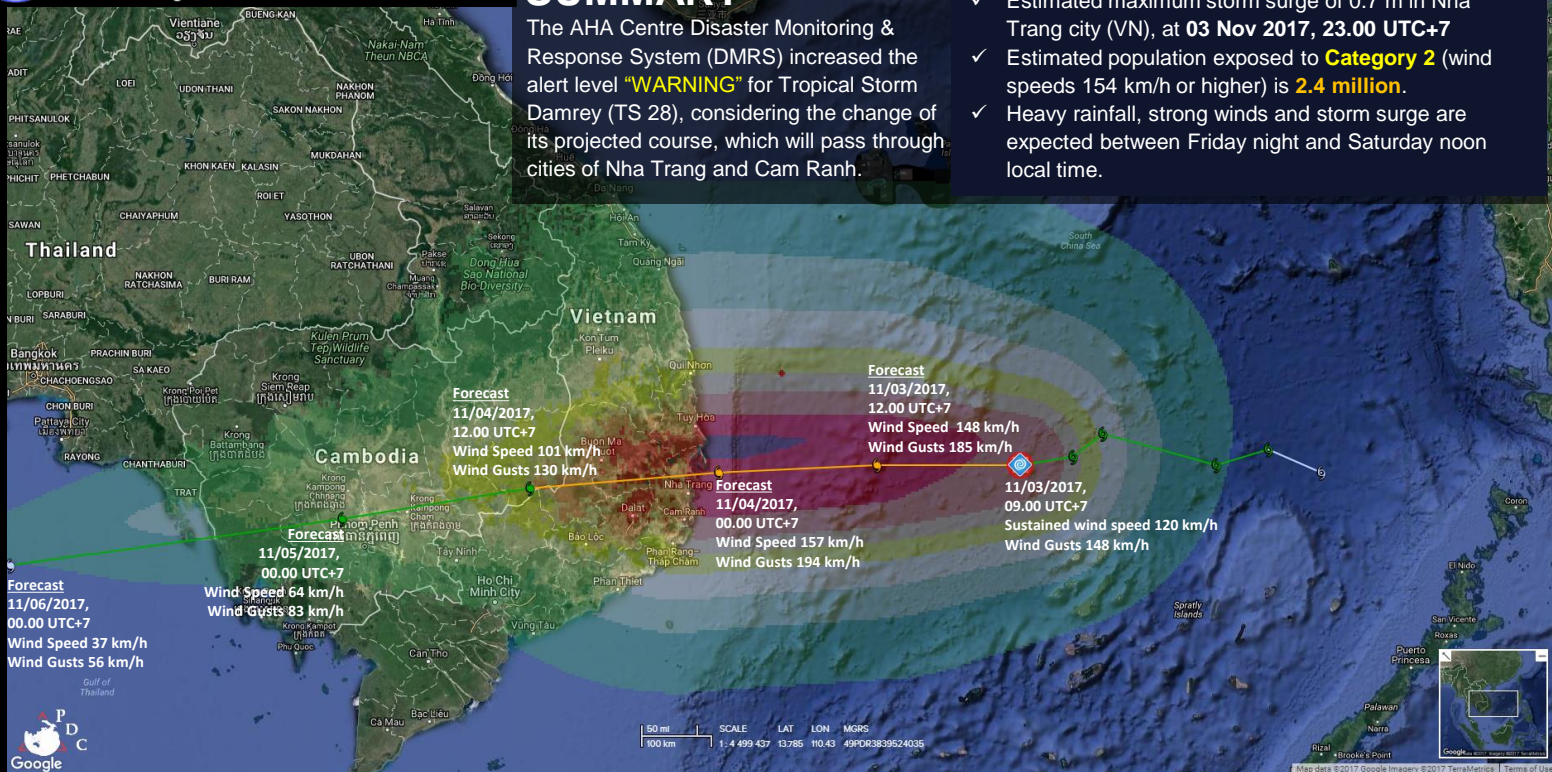
Powered by DisasterAWARE

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SUMMARY

The AHA Centre Disaster Monitoring & Response System (DMRS) increased the alert level **"WARNING"** for Tropical Storm Damrey (TS 28), considering the change of its projected course, which will pass through cities of Nha Trang and Cam Ranh.

- ✓ Estimated maximum storm surge of 0.7 m in Nha Trang city (VN), at **03 Nov 2017, 23.00 UTC+7**
- ✓ Estimated population exposed to **Category 2** (wind speeds 154 km/h or higher) is **2.4 million**.
- ✓ Heavy rainfall, strong winds and storm surge are expected between Friday night and Saturday noon local time.



AHA Centre insight for Tropical Storm Damrey (28)

Countries at Risk

Vietnam (VN), landfall est. 4 Nov 2017
Cambodia (KH), landfall est. 5 Nov 2017

Provinces at Risk

Province	Population
Khanh Hoa (VN)	1.174 million people
Ninh Thuan (VN)	569,000 people
Dac Lac (VN)	1.771 million people
Lam Dong (VN)	1.218 million people

Key Cities at Risk

Cities	Province	Population
Nha Trang (VN)	Khanh Hoa	283,441
Cam Ranh (VN)	Ninh Thuan	146,771

Keywords: *floods, landslides, disruption, storm surge, strong winds*

Key Infrastructures at Risk

- ✓ Nha Trang Int'l Airport / NHA (VN)
- ✓ Cam Ranh Int'l Airport / CXR (VN)
- ✓ Van Phong Port (VN)
- ✓ Nha Trang Port (VN)

Characteristics of Risk

- ✓ The affected population is classified as **high risk** (ASEAN Multi Hazard Risk Index).
- ✓ Tourism, trade and services activities including facilities in urban areas of Nha Trang, Cham Ranh and Tuy Hoa, lies above flat terrain.
- ✓ Densely populated residential areas in Xom Bong and Con Ngoc Thao (VN), are at risk of storm surge and flood.
- ✓ Densely populated residential areas in Vinh Hai, Vin Phuoc and Vinh Hoa (VN), are at risk of landslide.

- ✓ Potential floods and landslides in rural areas of all provinces at risk (VN and KH), will endanger agricultural activities.
- ✓ Disruption of fishing and agricultural activities will be expected as the storm approaches.

Considerations for Preparedness & Response

- ✓ Rapid business-continuity planning in tourism sector and related businesses of Nha Trang & Cam Ranh.
- ✓ Multi-language preparedness support for international tourists in Khanh Hoa Province (annually welcome 2.6 million tourists)
- ✓ Following government's offshore fishing ban, ensure preparedness of coastal and fisheries communities.
- ✓ Vietnam Government effort to evacuate around 386,000 people in the most at risk areas across towns in Ninh Dinh, Phu Yen, Khanh Hoa, Ninh Thuan and Binh Thuan provinces have to be expedited.

