



# UNOSAT

## Tropical Storm Sonca-17.

### Population exposure analysis in Vietnam

#### 25 July 2017

Population Exposure Analysis

25 July 2017

Geneva, Switzerland

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## Overview

Sonca-17 is a tropical storm that affected the north-central coast of Vietnam. This storm originated on 17 July 2017 in the South China Sea (northwest Pacific) at a speed of about 28 km/h. On 25 July 2017, tropical storm Sonca-17 made landfall on the Quang Tri Province, Vietnam and it is expected to move a few hours later towards the Khammouan Province, Lao PDR with a maximum sustainable wind speed of 55 km/h. The tropical storm is soon expected to dissipate on land.

Based on data of the observed and predicted tropical cyclone path, wind speeds zones from JRC (Warning 18 issued on 25 July 2017 at 06:00 UTC), and population data from WorldPop, UNITAR-UNOSAT conducted a population exposure analysis for Vietnam: 3,400,339 people are living within 60km/h wind zones.

Population exposure estimates are based on cyclone track (JRC) and WorldPop data

## Population Exposure in Vietnam



**92,701,100**

Total population of Vietnam

**3,400,339**

Total population living in **60 km/h** wind speed zones

Province	Wind Speed Zone
	60 km/h
Dà Nang	968,785
Quang Binh	591,395
Quang Nam	41,094
Quang Tri	626,699
Thừa Thiên - Huế	1,172,366
<b>Grand Total</b>	<b>3,400,339</b>

### Sources:

Cyclone Track: Joint Research Center-GDACs

Administrative Levels: GADM

Spatial Demographic Data: WorldPop (2015)

Analysis: UNITAR-UNOSAT (25/07/2017)

The population exposure has been calculated using a 100 m resolution WorldPop dataset. This is a preliminary analysis & has not yet been validated in the field.

Download complete excel tables from [here](#)



### Tropical Storm Sonca-17 : Path and Wind Speed Zones

This map illustrates the tropical storm Sonca-17 path with low wind impact zones observed and predicted between 24 and 26 July 2017. The tropical storm path and wind speed data were derived from Joint Research Centre data (Warning 18 issued the 25 th July 2017 at 06:00 UTC). This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR-UNOSAT.

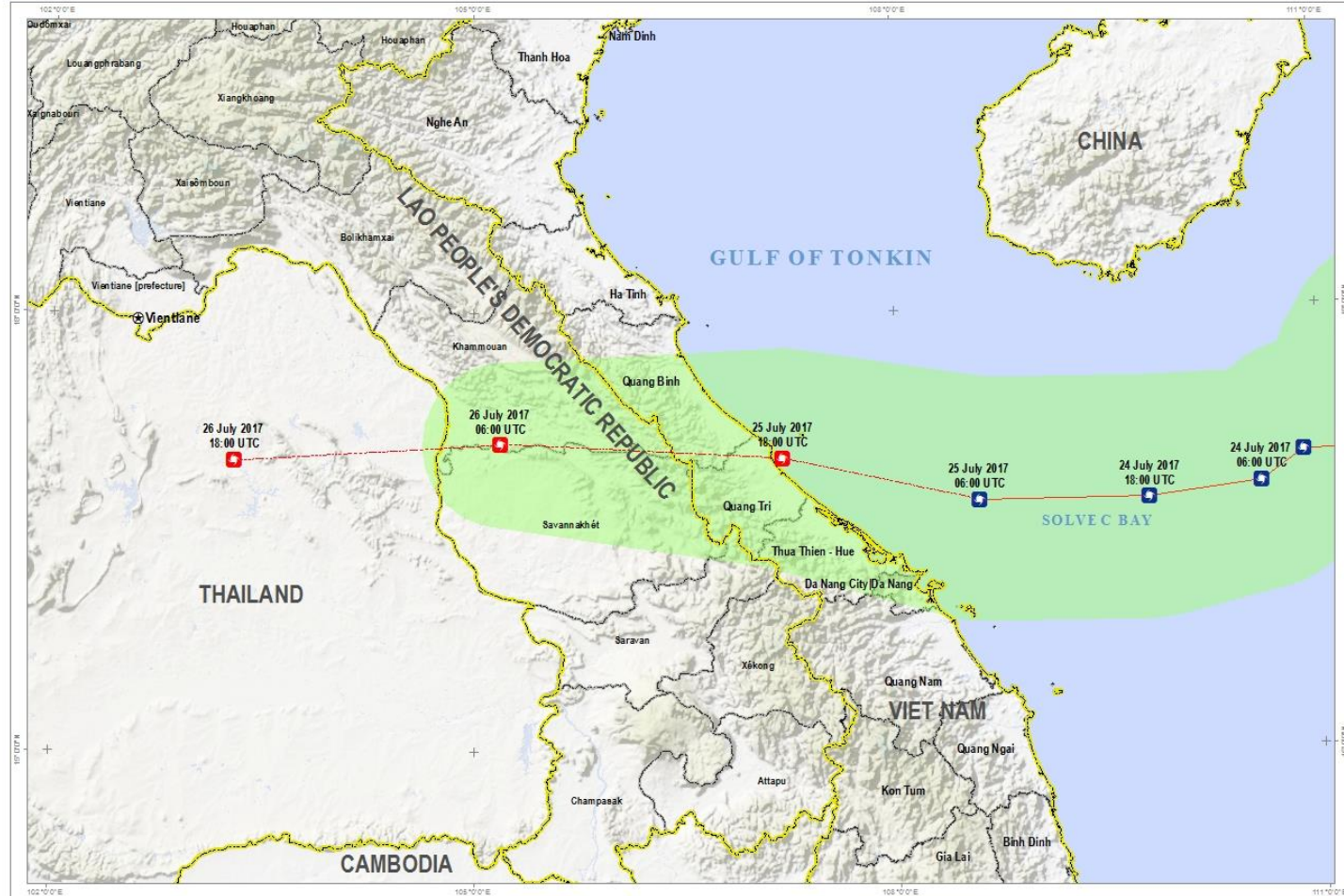
#### Legend

- Expected position
- Observed position
- Capital
- Expected track
- Observed track
- International boundary
- Province boundary
- Wind Speed Zones**
- Low (60 km/h)

Map Scale for A3: 1:3,000,000



Analysis conducted with ArcGIS v10.4  
 Coordinate System: WGS 1984 UTM Zone 48N  
 Projection: Transverse Mercator  
 Datum: WGS 1984  
 Units: Meter



Wind Speed Data: Joint Research Centre  
 Date Series: 24 - 26 July 2017  
 Copyright: JRC  
 Source: JRC

Baseline Data: GADM  
 Analysis: UNITAR - UNOSAT  
 Production: UNITAR - UNOSAT

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Map1: Sonca 17 Cyclone path with low wind impact zones.

Download pdf map from [here](#)