



UNOSAT

Tropical Cyclone Kenneth-19

Population Exposure Analysis in The Union of Comoros

23 April 2019

Population Exposure Analysis
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Overview

A tropical cyclone is heading toward Comoros, Tanzania and the north of Mozambique called “Kenneth-19”. The category 1 tropical cyclone is expected to make landfall by 25 April in the Grande Comore Island (Comoros).

Based on data of the expected tropical cyclone path Kenneth-19, wind speeds zones from Joint Research Centre (Issued on 23 April 2019 12:00 UTC), and population data from WorldPop 2015, UNITAR-UNOSAT conducted a population exposure analysis for Comoros. About 170,000 people in Comoros, in Grande Comore island are living inside the zone of sustained wind speed zone ≥ 120 km/h.

Population Exposure in Union of Comoros (TC KENNETH-19)



758,339

Total population of Comoros
(*WorldPop 2015)

758,339

Total population living within cyclone's wind speed zones

440,563

Total population living within
60km/h wind speed zones

148,047

Total population living within
90km/h wind speed zones

169,689

Total population living within
120km/h wind speed zones

The population exposure has been calculated using a 1km resolution WorldPop dataset.
This is a preliminary analysis & has not yet been validated in the field.

**Comoros Population Exposed to sustained wind speed zones:
Tropical Cyclone Kenneth-19 (23/04/2019, 12:00 UTC)**

Island	Wind Speed Zones (WSZ) Population			Total Population
	WSZ \geq 120 km/h	90km/h \leq WSZ < 120 km/h	60km/h \leq WSZ < 90 km/h	
Anjouan/Nzwani			303,767	303,767
Grande Comore/Njazidja	169,689	148,087	82,256	400,032
Mohéli/Mwali			54,539	54,539
Total	169,689	148,087	440,563	758,339

Download full excel table from [here](#):

Sources:

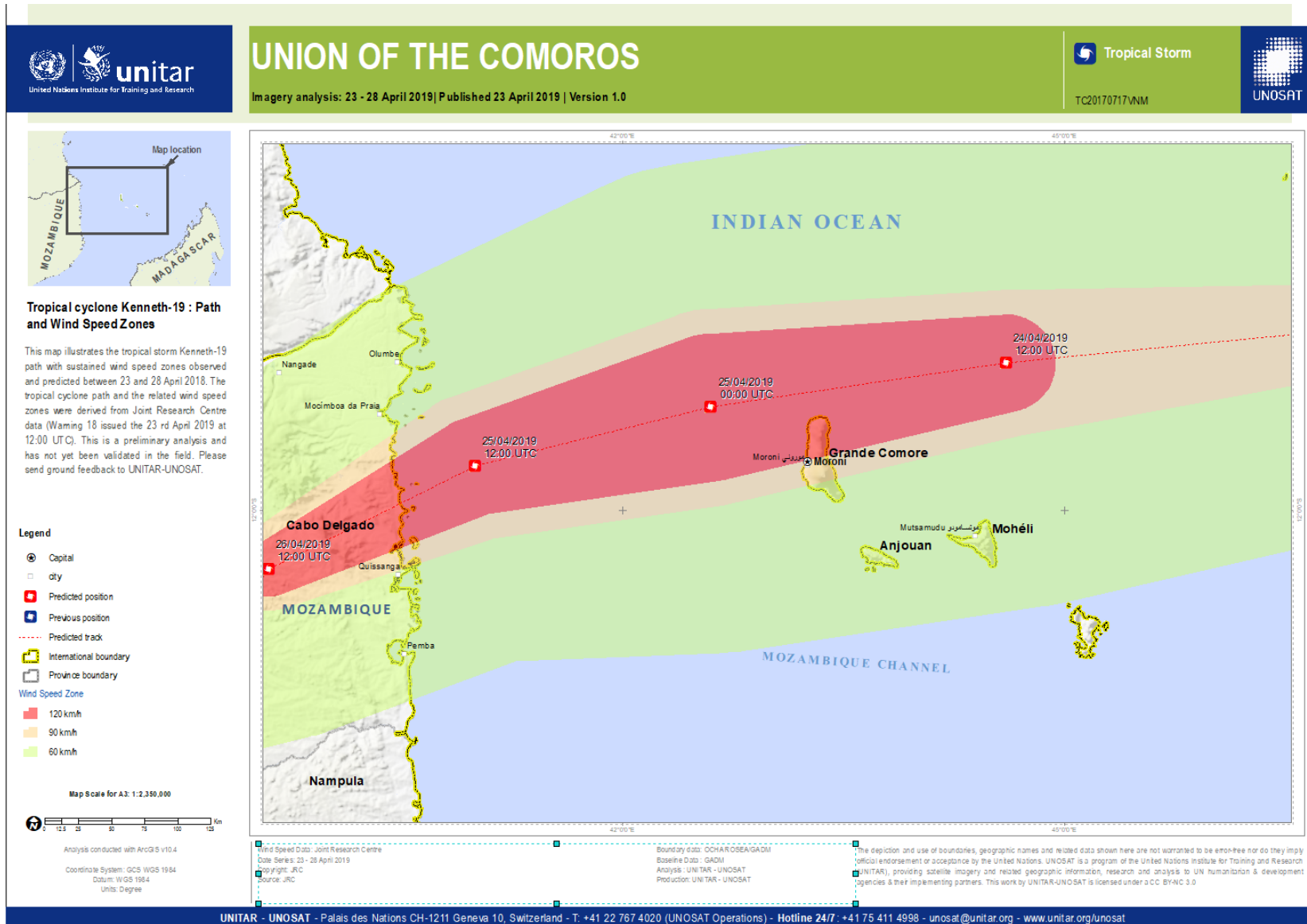
Cyclone track: Joint Research Centre (JRC) as of 23/04/2019

Wind speed zones: Joint Research Centre (JRC) as of 23/04/2019, 12:00 UTC

Administrative Levels: GADM

Spatial Demographic Data: WorldPop (2015), 1km spatial resolution

Analysis: UNITAR-UNOSAT (23/04/2019)



Map1: Tropical cyclone Kenneth track with low, medium and strong wind speed zones. Download PDF map [here](#)