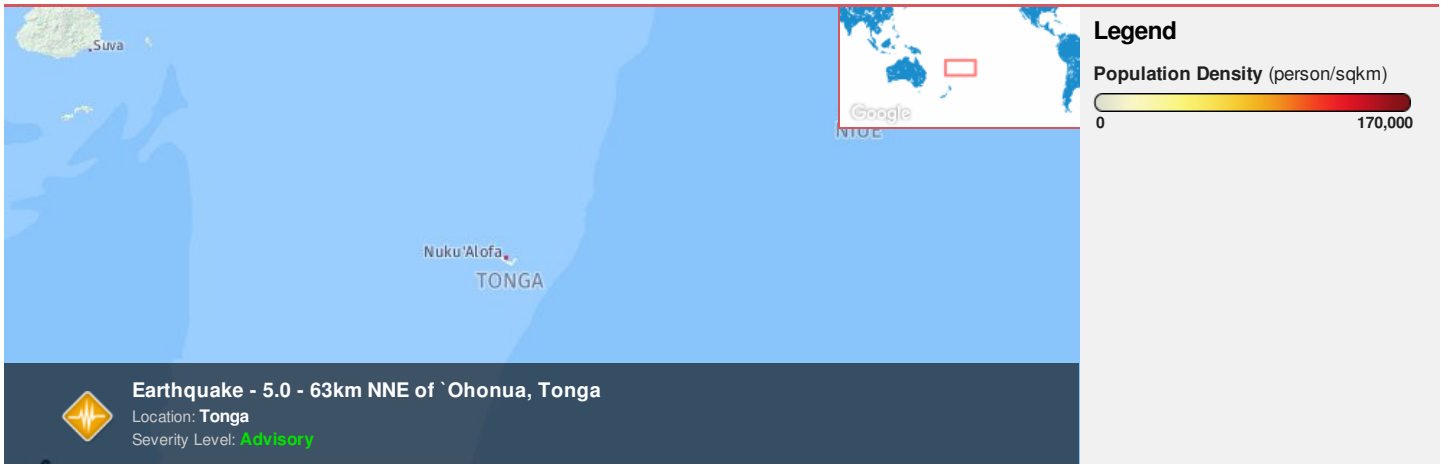
Pacific Disaster Center *Area Brief: General Executive Summary*	HONOLULU	WASH.D.C.	ZULU	NAIROBI	BANGKOK	TONGATAPU
	08:17:56 12 Aug 2018	14:17:56 12 Aug 2018	18:17:56 12 Aug 2018	21:17:56 12 Aug 2018	01:17:56 13 Aug 2018	07:17:56 13 Aug 2018

Region Selected » Lower Left Latitude/Longitude: -23.8245 N˚ , -177.6752 E˚
Upper Right Latitude/Longitude: -17.8245 N˚ , -171.6752 E˚



Situational Awareness

Additional information and analysis is available for Disaster Management Professionals. If you are a Disaster Management Professional and would like to apply for access, please register here. Validation of registration information may take 24-48 hours.

Current Hazards:

Recent Earthquakes

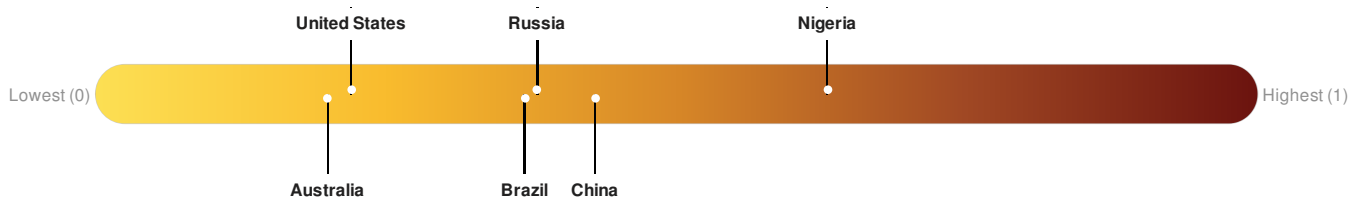
Event	Severity	Date (UTC)	Magnitude	Depth (km)	Location	Lat/Long
		12-Aug-2018 17:16:37	5	25.5	63km NNE of `Ohonua, Tonga	20.82° S / 174.68° W

Source: PDC

Lack of Resilience Index:

The Lack of Resilience Index assesses the susceptibility to impact and the short-term inability to absorb, respond to, and recover from disruptions to a country's normal function.

There was insufficient data to determine the Lack of Resilience Index score for **Tonga**.



Source: PDC

Regional Overview

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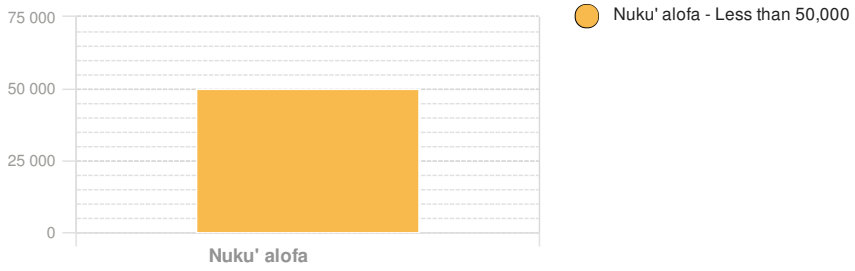
Population Data:

Populated Areas:

2011

Total: 115, 199
Max Density: 13, 230(ppl/km^2)



Source: iSciences

Risk & Vulnerability

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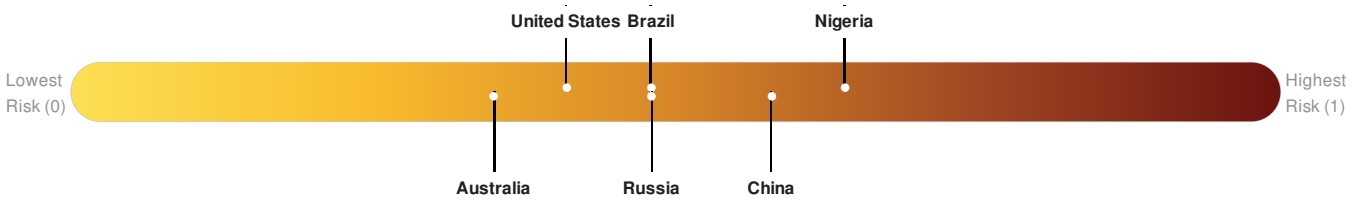
Multi Hazard Risk Index:

The Multi Hazard Risk index assesses the likelihood of losses or disruptions to a country's normal function due to the interaction between exposure to multiple hazards (tropical cyclone winds, earthquake, flood and tsunami), socioeconomic vulnerability, and coping capacity

There was insufficient data to determine the Multi Hazard Risk Index score for **Tonga**.



Source: PDC

Lack of Resilience Index:

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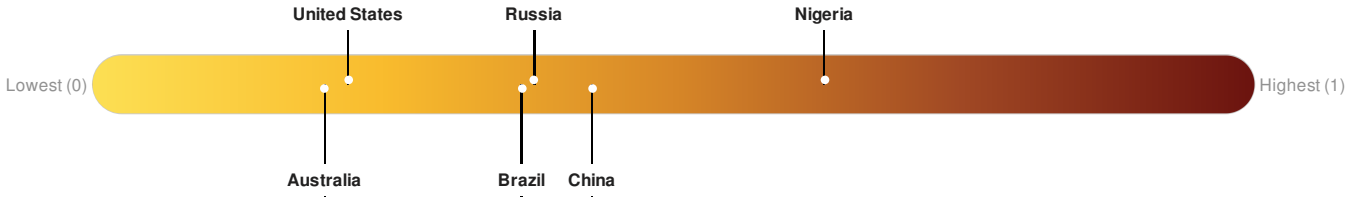

Source: PDC

Historical Hazards

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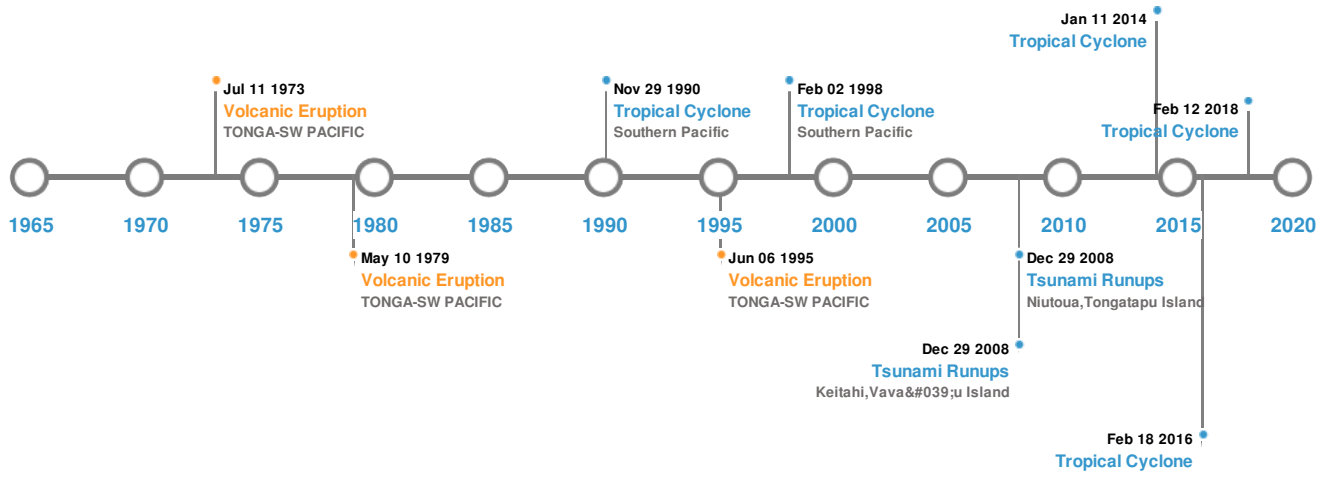
Historical Hazards:



Earthquakes:

5 Largest Earthquakes (Resulting in significant damage or deaths)

Event	Date (UTC)	Magnitude	Depth (Km)	Location	Lat/Long
	30-Apr-1919 00:07:00	8.30	25	TONGA ISLANDS	19° S / 172.5° W
	01-Jan-1919 00:02:00	8.30	180	FIJI ISLANDS	19.5° S / 176.5° W
	16-Apr-1937 00:03:00	8.10	400	FIJI ISLANDS	21.5° S / 177° W
	04-Jan-1903 00:05:00	8.00	400	TONGA ISLANDS	20° S / 175° W
	18-Nov-1865 00:00:00	8.00	-	TONGA ISLANDS	19.5° S / 173.5° W

Source: Earthquakes

Volcanic Eruptions:

5 Largest Volcanic Eruptions (Last updated in 2000)

Event	Name	Date (UTC)	Volcanic Explosivity Index	Location	Lat/Long
	FONUALEI	11-Jul-1973 00:00:00	3.00	TONGA-SW PACIFIC	18.01° S / 174.32° W
	FALCON ISLAND	11-Oct-1885 00:00:00	3.00	TONGA-SW PACIFIC	20.31° S / 175.41° W

Event	Name	Date (UTC)	Volcanic Explosivity Index	Location	Lat/Long
	FONUALEI	01-Oct-1846 00:00:00	3.00	TONGA-SW PACIFIC	18.01° S / 174.32° W
	METIS SHOAL	06-Jun-1995 00:00:00	2.00	TONGA-SW PACIFIC	19.18° S / 174.86° W
	METIS SHOAL	10-May-1979 00:00:00	2.00	TONGA-SW PACIFIC	19.18° S / 174.86° W

Source: Volcanoes

Tsunami Runups:

5 Largest Tsunami Runups

Event	Date (UTC)	Country	Runup (m)	Deaths	Location	Lat/Long
	26-Jun-1917 00:00:00	TONGA	4.2	-	HAAPAI	19.78° S / 174.34° W
	10-May-1877 00:00:00	TONGA	3.6	-	TONGA ISLANDS	20.4° S / 174.6° W
	30-Apr-1919 07:53:00	TONGA	2.5	-	HAAPAI	19.78° S / 174.34° W
	29-Sep-2009 00:00:00	TONGA	1.4	-	Keitahi, Vava'u Island	18.62° S / 173.92° W
	29-Sep-2009 00:00:00	TONGA	0.78	-	Niutoua, Tongatapu Island	21.14° S / 175.04° W

Source: Tsunamis

Tropical Cyclones:

5 Largest Tropical Cyclones

Event	Name	Start/End Date(UTC)	Max Wind Speed (mph)	Min Pressure (mb)	Location	Lat/Long
	1998-01-01	01-Jan-1998 18:00:00 - 02-Feb-1998 00:00:00	167	No Data	Southern Pacific	18.6° S / 5.5° W
	SEVEN	05-Jan-2014 00:00:00 - 11-Jan-2014 00:00:00	144	-	-	20.03° S / 174.66° W
	NINE	09-Feb-2018 03:00:00 - 12-Feb-2018 21:00:00	144	-	-	21.44° S / 174.74° W
	1990-11-23	23-Nov-1990 12:00:00 - 29-Nov-1990 06:00:00	144	No Data	Southern Pacific	14.13° S / 0°
	WINSTON	12-Feb-2016 00:00:00 - 18-Feb-2016 00:00:00	132	-	-	19.1° S / 175.21° W

Source: Tropical Cyclones

Disclosures

* As defined by the source (Dartmouth Flood Observatory, University of Colorado), Flood Magnitude = LOG(Duration x Severity x Affected Area). Severity classes are based on estimated recurrence intervals and other criteria.

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