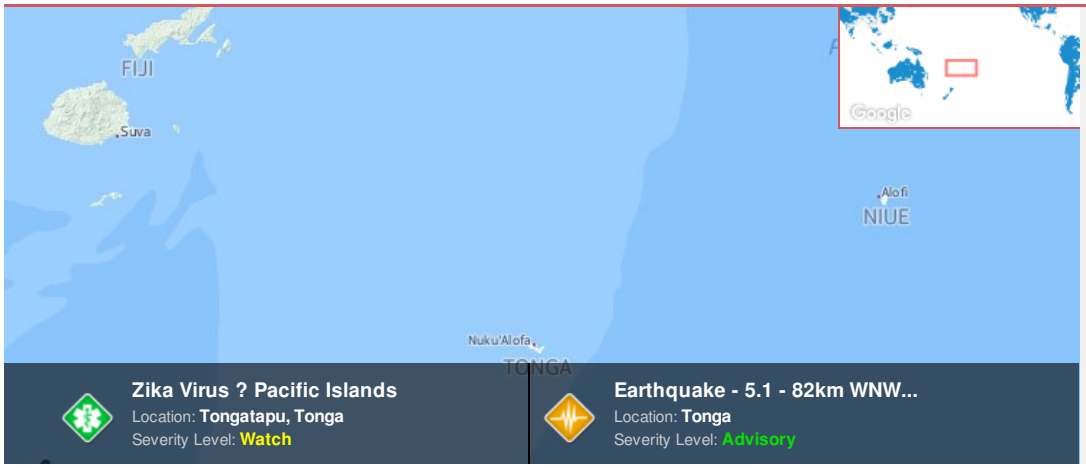
| Pacific Disaster Center<br>*Area Brief: General Executive Summary* | HONOLULU | WASH.D.C. | ZULU | NAIROBI | BANGKOK | TONGATAPU |
|---|---|---|---|---|---|---|
| | 20:35:53<br>26 Nov 2016 | 01:35:53<br>27 Nov 2016 | 06:35:53<br>27 Nov 2016 | 09:35:53<br>27 Nov 2016 | 13:35:53<br>27 Nov 2016 | 19:35:53<br>27 Nov 2016 |

**Region Selected »** Lower Left Latitude/Longitude: -22.5788 N˚ , -178.101 E˚
Upper Right Latitude/Longitude: -16.5788 N˚ , -172.101 E˚




**Legend**

**Population Density** (person/sqkm)

0 — 170,000

## 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 |
|---|---|---|---|---|---|---|
| | | 27-Nov-2016 06:34:33 | 5.1 | 59.6 | 82km WNW of Pangai, Tonga | 19.58° S / 175.1° W |

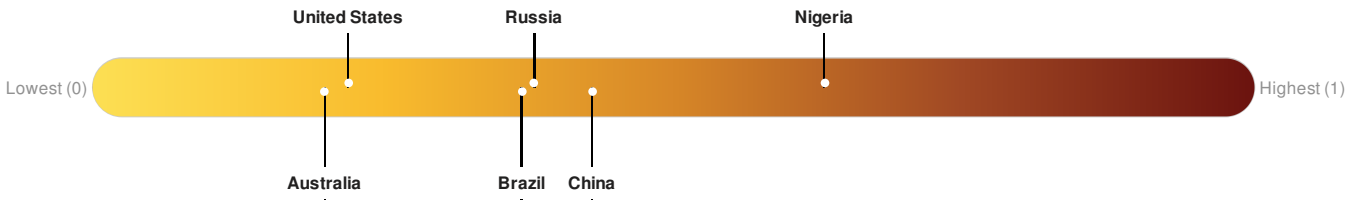
### Active Bio Medical

| Event | Severity | Date (UTC) | Name | Lat/Long |
|---|---|---|---|---|
| | | 08-Feb-2016 21:12:33 | Zika Virus ? Pacific Islands | 21.14° S / 175.21° W |

*Source: PDC*

# Lack of Resilience Index:

Lack of Resilience represents the combination of susceptibility to impact and the relative inability to absorb, respond to, and recover from negative impacts that do occur over the short term. There was insufficient data to determine the Lack of Resilience Index score for **Tonga**.




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

*Source: PDC*

## Regional Overview

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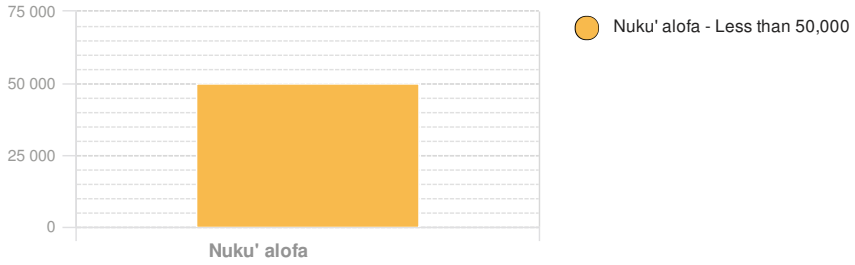
## Population Data:

**2011**

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

## Populated Areas:



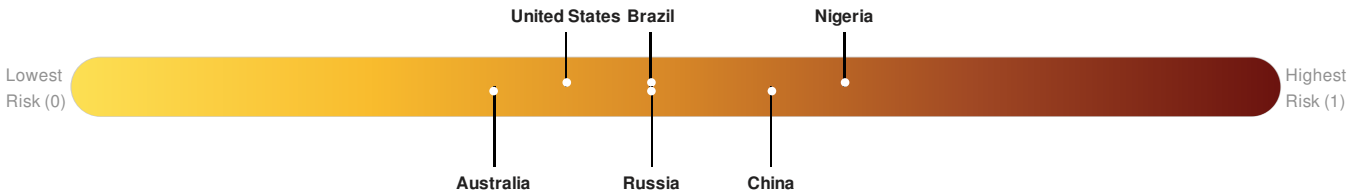

*Source: iSciences*

## Risk & Vulnerability

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.

## Multi Hazard Risk Index:

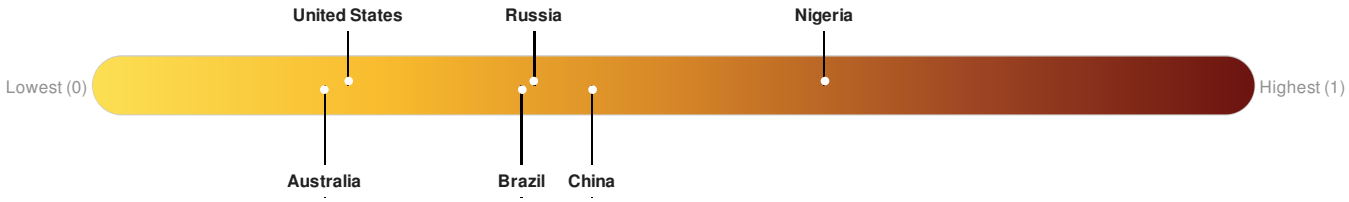
There was insufficient data to determine the Multi Hazard Risk Index score for **Tonga**.




*Source: PDC*

## Lack of Resilience Index:

Lack of Resilience represents the combination of susceptibility to impact and the relative inability to absorb, respond to, and recover from negative impacts that do occur over the short term. There was insufficient data to determine the Lack of Resilience Index score for **Tonga**.




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

*Source: PDC*

## Historical Hazards

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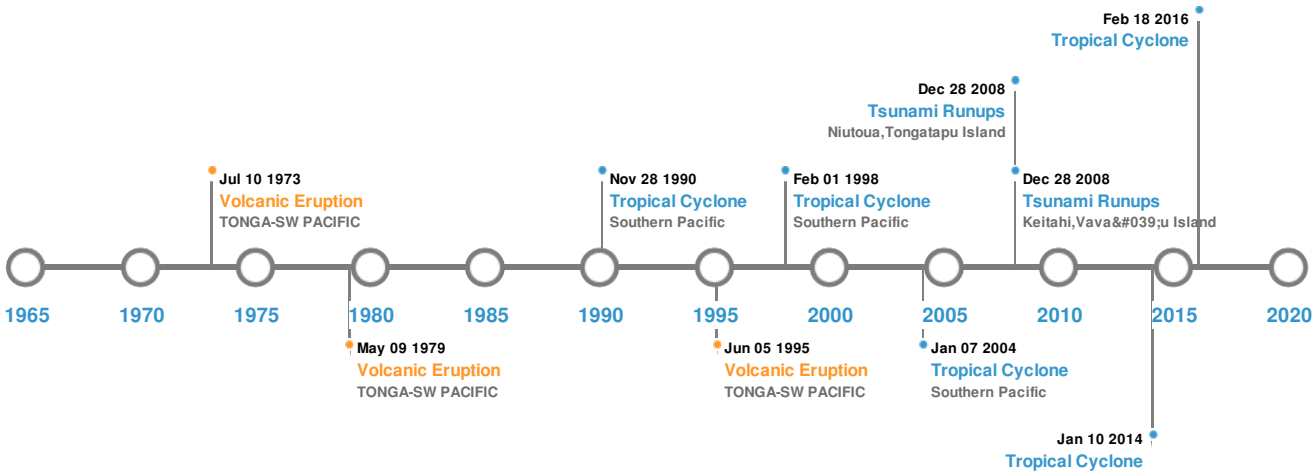
# Historical Hazards:




# 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 |
| | FONUALEI | 01-Oct-1846 00:00:00 | 3.00 | TONGA-SW PACIFIC | 18.01° S / 174.32° W |

| Event | Name | Date (UTC) | Volcanic Explosivity Index | Location | Lat/Long |
|---|---|---|---|---|---|
| | 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 |
| | HETA | 02-Jan-2004 12:00:00 - 07-Jan-2004 18:00:00 | 161 | No Data | Southern Pacific | 18.6° S / 167.85° W |
| | WINSTON | 12-Feb-2016 00:00:00 - 19-Feb-2016 00:00:00 | 155 | - | - | 18.48° S / 175.22° 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° |
| | SEVEN | 05-Jan-2014 00:00:00 - 11-Jan-2014 00:00:00 | 144 | - | - | 18.97° S / 175.22° 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.