



**Pacific Disaster Center**  
*Area Brief: General*  
*Executive Summary*

HONOLULU  
**18:37:14**  
 15 Oct 2018

WASH.D.C.  
**00:37:14**  
 16 Oct 2018

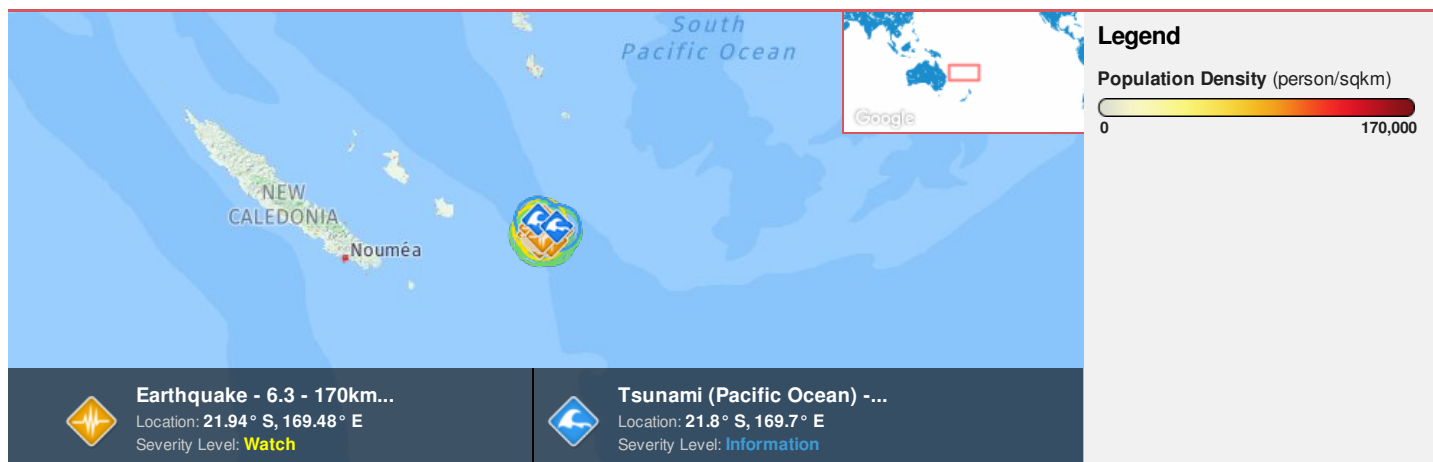
ZULU  
**04:37:14**  
 16 Oct 2018

NAIROBI  
**07:37:14**  
 16 Oct 2018

BANGKOK  
**11:37:14**  
 16 Oct 2018

NOUMEA  
**15:37:14**  
 16 Oct 2018

**Region Selected** » Lower Left Latitude/Longitude: -24.9845 N° , 166.528 E°  
 Upper Right Latitude/Longitude: -18.9845 N° , 172.528 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
		16-Oct-2018 04:36:46	5	10	176km ESE of Tadine, New Caledonia	21.98° S / 169.53° E
		16-Oct-2018 04:24:35	5.1	10	167km ESE of Tadine, New Caledonia	22.02° S / 169.42° E
		16-Oct-2018 03:48:30	5	10	164km E of Tadine, New Caledonia	21.76° S / 169.45° E
		16-Oct-2018 03:32:45	5.1	10	191km E of Tadine, New Caledonia	21.86° S / 169.7° E
		16-Oct-2018 03:21:28	5.1	10	154km ESE of Tadine, New Caledonia	21.9° S / 169.33° E
		16-Oct-2018 02:45:59	5	10	184km ESE of Tadine, New Caledonia	22° S / 169.6° E
		16-Oct-2018 01:54:58	5.2	10	165km E of Tadine, New Caledonia	21.76° S / 169.46° E
		16-Oct-2018 01:49:26	5.1	10	165km ESE of Tadine, New Caledonia	21.93° S / 169.43° E

Event	Severity	Date (UTC)	Magnitude	Depth (km)	Location	Lat/Long
		16-Oct-2018 01:49:26	5.4	10	166km E of Tadine, New Caledonia	21.8° S / 169.47° E
		16-Oct-2018 01:33:34	5.8	10	156km E of Tadine, New Caledonia	21.82° S / 169.37° E
		16-Oct-2018 01:11:39	6.4	10	167km E of Tadine, New Caledonia	21.73° S / 169.49° E
		16-Oct-2018 00:37:51	6.3	10	170km ESE of Tadine, New Caledonia	21.94° S / 169.48° E

### Active Recent Tsunamis

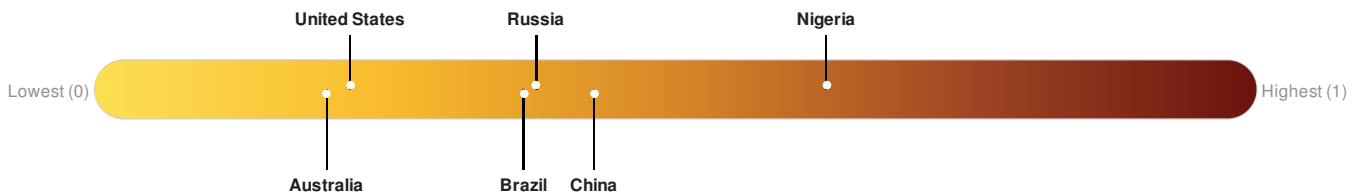
Event	Severity	Date (UTC)	Name	Lat/Long
		16-Oct-2018 01:10:59	Tsunami (Pacific Ocean) - Southeast Of Loyalty Islands - 6.8	21.7° S / 169.4° E
		16-Oct-2018 00:38:32	Tsunami (Pacific Ocean) - Southeast Of Loyalty Islands - 6.5	21.8° S / 169.7° E

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 **Vanuatu**. There was insufficient data to determine the Lack of Resilience Index score for **New Caledonia**.



Source: [PDC](#)

### Regional Overview

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### Population Data:

**2011**

Total: **57,582**

Max Density: **3,387**(ppl/km<sup>2</sup>)

### Populated Areas:

No significant land or population areas exist within the current map extent. Please use <http://atlas.pdc.org/atlas/> for dynamic mapping capabilities.

Source: [iSciences](#)

### Risk & Vulnerability

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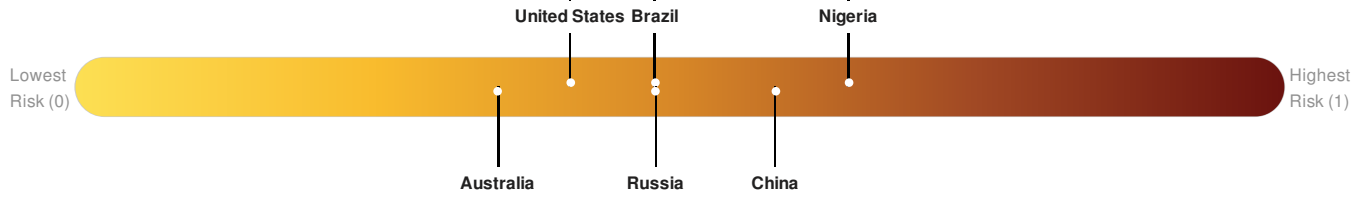
apply for access, please [register here](#). Validation of registration information may take 24-48 hours.

## 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 **Vanuatu**.

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

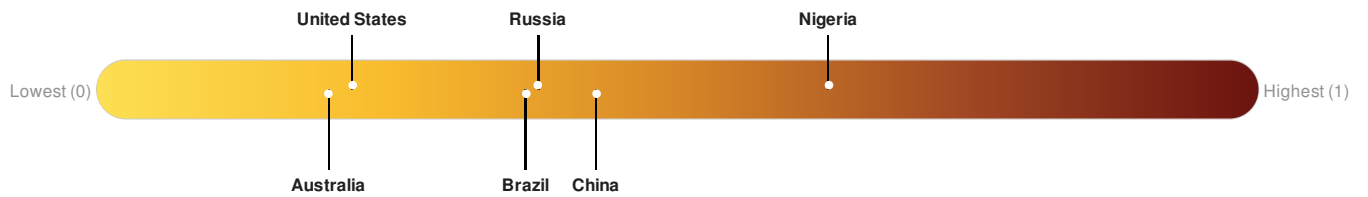


Source: [PDC](#)

## Lack of Resilience Index:

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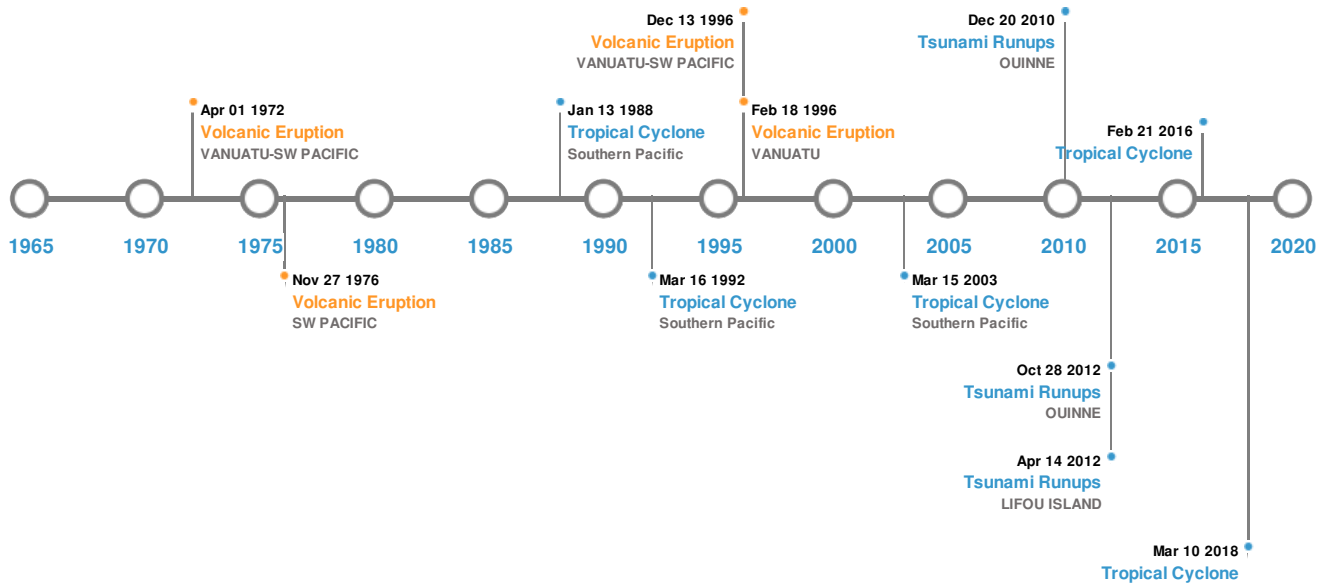


Source: [PDC](#)

## 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
	16-Jun-1910 00:06:00	8.60	100	VANUATU ISLANDS	19° S / 169.5° E
	09-Aug-1901 00:13:00	8.40	60	NEW CALEDONIA: LOYALTY ISLANDS	22° S / 170° E
	14-Oct-1913 00:08:00	8.10	230	VANUATU ISLANDS	19.5° S / 169° E
	20-Sep-1920 00:14:00	8.00	33	NEW CALEDONIA: LOYALTY ISLANDS	20.6° S / 168.8° E
	11-Feb-1878 00:00:00	8.00	-	VANUATU ISLANDS	19° S / 168.5° E

Source: [Earthquakes](#)

### Volcanic Eruptions:






#### 5 Largest Volcanic Eruptions (Last updated in 2000)

Event	Name	Date (UTC)	Volcanic Explosivity Index	Location	Lat/Long
	YASUR	01-Apr-1972 00:00:00	3.00	VANUATU-SW PACIFIC	19.52° S / 169.43° E
	YASUR	13-Aug-1997 00:00:00	2.00	VANUATU-SW PACIFIC	19.52° S / 169.43° E

Event	Name	Date (UTC)	Volcanic Explosivity Index	Location	Lat/Long
	EASTERN GEMINI SEA	18-Feb-1996 00:00:00	2.00	VANUATU	20.98° S / 170.29° E
	MATTHEW ISLAND	27-Nov-1976 00:00:00	2.00	SW PACIFIC	22.33° S / 171.32° E
	MATTHEW ISLAND	01-Oct-1954 00:00:00	2.00	SW PACIFIC	22.33° S / 171.32° E






Source: [Volcanoes](#)

## Tsunami Runups:

5 Largest Tsunami Runups						
Event	Date (UTC)	Country	Runup (m)	Deaths	Location	Lat/Long
	10-Jan-1878 00:00:00	VANUATU	12	-	TANNA ISLAND	19.5° S / 169.33° E
	28-Mar-1875 00:00:00	VANUATU	4	-	ANEYTIOUM (ANEITYUM)	20.2° S / 169.82° E
	20-Aug-2011 17:51:02	NEW CALEDONIA	0.14	-	QUINNE	- / -
	28-Oct-2012 00:00:00	NEW CALDONIA	0.08	-	QUINNE	- / -
	14-Apr-2012 00:00:00	NEW CALEDONIA	0.05	-	LIFOU ISLAND	- / -

Source: [Tsunamis](#)

## Tropical Cyclones:

5 Largest Tropical Cyclones						
Event	Name	Start/End Date(UTC)	Max Wind Speed (mph)	Min Pressure (mb)	Location	Lat/Long
	1992-03-04	04-Mar-1992 06:00:00 - 16-Mar-1992 18:00:00	161	No Data	Southern Pacific	17.91° S / 0°
	1988-01-06	06-Jan-1988 06:00:00 - 13-Jan-1988 18:00:00	161	No Data	Southern Pacific	14.28° S / 0°
	ERICA	05-Mar-2003 00:00:00 - 15-Mar-2003 06:00:00	161	No Data	Southern Pacific	20.98° S / 166.4° E
	TWELVE	06-Mar-2018 15:00:00 - 10-Mar-2018 09:00:00	150	-	-	21.76° S / 168.8° E
	WINSTON	11-Feb-2016 00:00:00 - 21-Feb-2016 00:00:00	144	-	-	20.77° S / 171.97° E

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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