Pacific Disaster Center
Area Brief: General Executive Summary

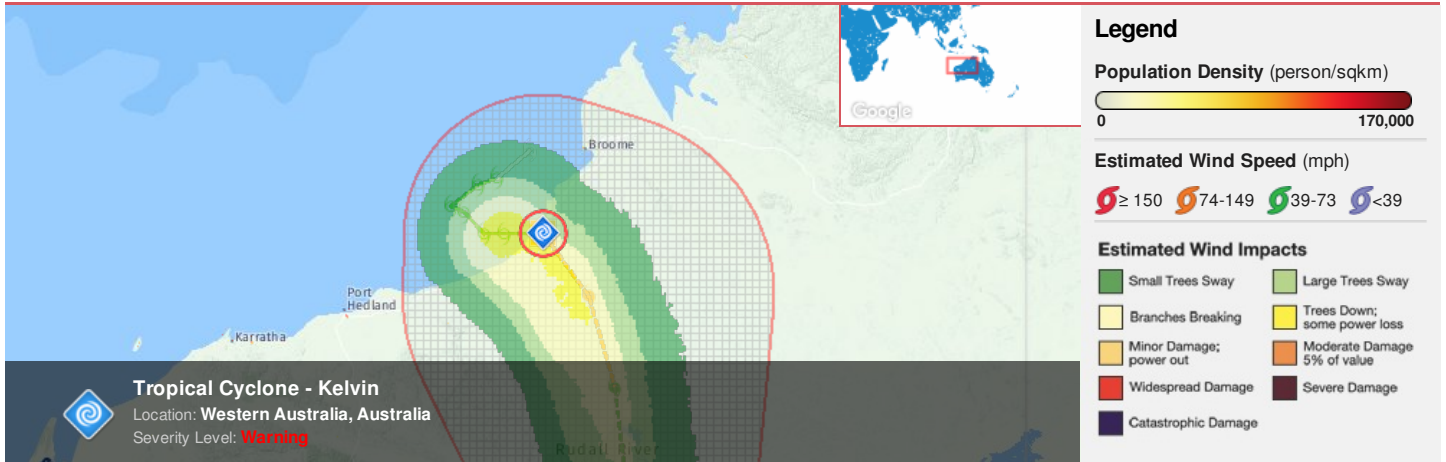| HONOLULU	WASH.D.C.	ZULU	NAIROBI	BANGKOK	DILI
16:47:26	21:47:26	02:47:26	05:47:26	09:47:26	11:47:26
17 Feb 2018	17 Feb 2018	18 Feb 2018	18 Feb 2018	18 Feb 2018	18 Feb 2018

Region Selected » Lower Left Latitude/Longitude: -22.2 N˚ , 118.6 E˚
Upper Right Latitude/Longitude: -16.2 N˚ , 124.6 E˚

Legend

Population Density (person/sqkm)
0 — 170,000

Estimated Wind Speed (mph)
≥ 150   74-149   39-73   <39

Estimated Wind Impacts
- Small Trees Sway
- Large Trees Sway
- Branches Breaking
- Trees Down; some power loss
- Minor Damage; power out
- Moderate Damage 5% of value
- Widespread Damage
- Severe Damage
- Catastrophic Damage

Tropical Cyclone - Kelvin
Location: **Western Australia, Australia**
Severity Level: **Warning**

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:

Active Tropical Cyclones

Event	Severity	Name	Wind Speed (mph)	Wind Gusts (mph)	Heading	Track Speed (mph)	Advisory Num	Status	Pressure (mb)	Lat/Long
		Tropical Cyclone - Kelvin	92	115	E	7	8	Hurricane/Typhoon > 74 mph	-	19.2° S / 121.6° 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.

Australia ranks **154** out of **165** countries assessed for Lack of Resilience. Australia is less resilient than 7% of countries assessed. This indicates that Australia has very low susceptibility to negative impacts, and is less able to respond to and recover from a disruption to normal function.
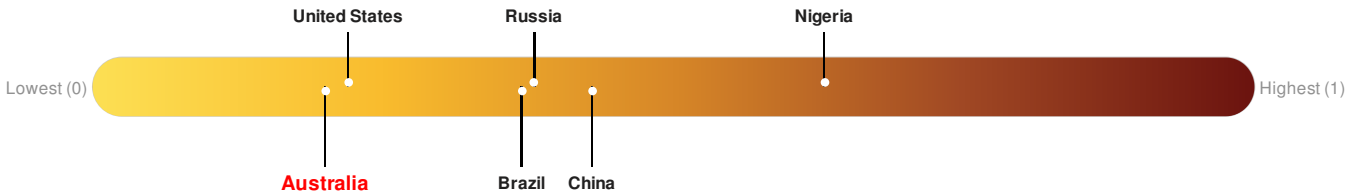
Source: PDC

Regional Overview

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Population Data:

2011

Total: **35, 438**

Max Density: **5, 024** (ppl/km^2)
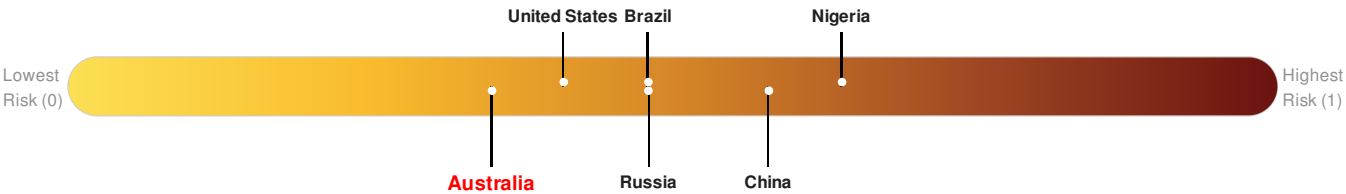
Populated Areas:

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

Multi-Hazard Exposure **Australia** ranks **142** out of **165** countries assessed for Multi Hazard Risk. Australia has a Multi Hazard Risk higher than 14% of countries assessed. This indicates that Australia has less likelihood of loss and/or disruption to normal function if exposed to a hazard.
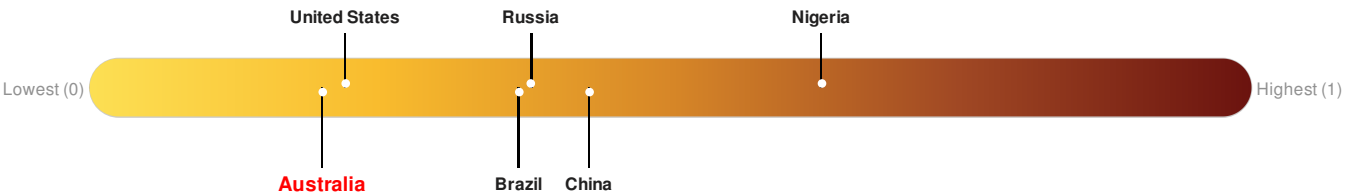
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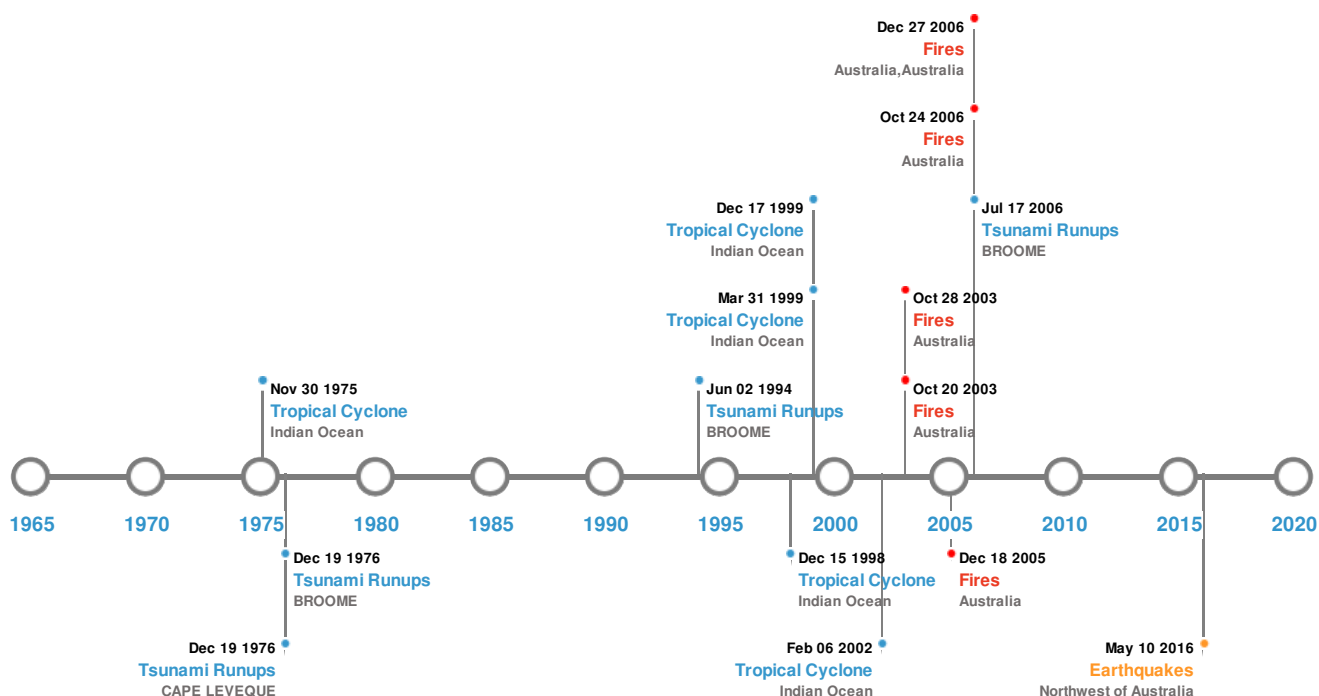
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Historical Hazards:

Dec 27 2006 — Fires — Australia,Australia	
Oct 24 2006 — Fires — Australia	
Dec 17 1999 — Tropical Cyclone — Indian Ocean	**Jul 17 2006** — Tsunami Runups — BROOME
Mar 31 1999 — Tropical Cyclone — Indian Ocean	**Oct 28 2003** — Fires — Australia
Nov 30 1975 — Tropical Cyclone — Indian Ocean	**Jun 02 1994** — Tsunami Runups — BROOME
	Oct 20 2003 — Fires — Australia

Timeline years: 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005, 2010, 2015, 2020

Dec 19 1976 — Tsunami Runups — BROOME
Dec 19 1976 — Tsunami Runups — CAPE LEVEQUE
Dec 15 1998 — Tropical Cyclone — Indian Ocean
Dec 18 2005 — Fires — Australia
Feb 06 2002 — Tropical Cyclone — Indian Ocean
May 10 2016 — Earthquakes — Northwest of Australia

Earthquakes:

5 Largest Earthquakes (Resulting in significant damage or deaths)					
Event	Date (UTC)	Magnitude	Depth (Km)	Location	Lat/Long
	10-May-2016 09:44:38	4.90	10	Northwest of Australia	16.39° S / 118.84° E

Source: Earthquakes

Tsunami Runups:

5 Largest Tsunami Runups					
Event	Date (UTC)	Country	Runup (m)	Deaths	Location	Lat/Long
	19-Aug-1977 00:00:00	AUSTRALIA	6	-	CAPE LEVEQUE	16.24° S / 122.56° E
	17-Jul-2006 13:02:00	AUSTRALIA	-	-	BROOME	17.92° S / 122.22° E
	02-Jun-1994 00:00:00	AUSTRALIA	-	-	BROOME	18° S / 122.22° E
	19-Aug-1977 00:00:00	AUSTRALIA	-	-	BROOME	17.92° S / 122.22° E

Source: Tsunamis

Wildfires:

5 Largest Wildfires

Event	Start/End Date(UTC)	Size (sq. km.)	Location	Mean Lat/Long
	09-Oct-2003 00:00:00 - 20-Oct-2003 00:00:00	68.60	Australia	16.54° S / 124.66° E
	23-Oct-2006 00:00:00 - 24-Oct-2006 00:00:00	58.70	Australia	20.1° S / 120.44° E
	09-Sep-2006 00:00:00 - 18-Sep-2006 00:00:00	50.80	Australia	19.27° S / 123.26° E
	10-Feb-2003 00:00:00 - 28-Oct-2003 00:00:00	49.20	Australia	16.46° S / 124.19° E
	16-Aug-2007 00:00:00 - 27-Aug-2007 00:00:00	48.90	Australia,Australia	16.36° S / 124.14° E

Source: Wildfires

Tropical Cyclones:

5 Largest Tropical Cyclones

Event	Name	Start/End Date(UTC)	Max Wind Speed (mph)	Min Pressure (mb)	Location	Lat/Long
	1998-12-04	04-Dec-1998 06:00:00 - 15-Dec-1998 00:00:00	155	No Data	Indian Ocean	14.83° S / 126.75° E
	1999-12-10	10-Dec-1999 06:00:00 - 17-Dec-1999 06:00:00	150	No Data	Indian Ocean	16.07° S / 109.1° E
	1999-04-03	03-Apr-1999 18:00:00 - 08-Apr-1999 06:00:00	150	No Data	Indian Ocean	17.31° S / 121.45° E
	CHRIS	04-Feb-2002 06:00:00 - 06-Feb-2002 06:00:00	144	No Data	Indian Ocean	18.7° S / 120.5° E
	1975-11-30	30-Nov-1975 06:00:00 - 09-Dec-1975 18:00:00	144	No Data	Indian Ocean	18.5° S / 122.55° E

Source: Tropical Cyclones