Pacific Disaster Center	HONOLULU	WASH.D.C.	ZULU	NAIROBI	BANGKOK	TAIPEI
Area Brief: General	07:09:03	13:09:03	17:09:03	20:09:03	00:09:03	01:09:03
 Executive Summary	23 001 2018	23 001 2018	23 001 2016	23 001 2010	24 Oct 2016	24 001 2018





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		
	!	23-Oct-2018 16:23:55	5.7	24.02	61km SSW of Yonakuni, Japan	24° N / 122.67° E		
	!	23-Oct-2018 04:53:50	5.7	34.19	57km SW of Yonakuni, Japan	24.09° N / 122.62° 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.

China ranks 82 out of 164 countries assessed for Lack of Resilience. China is less resilient than 50% of countries assessed. This indicates that China has medium susceptibility to negative impacts, and is less able to respond to and recover from a disruption to normal function.

Japan ranks 140 out of 164 countries assessed for Lack of Resilience. Japan is less resilient than 15% of countries assessed. This indicates that Japan has low susceptibility to negative impacts, and is better able to respond to and recover from a disruption to normal function.



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## **Population Data:**

Total: 23, 854, 274

Max Density: 64, 084(ppl/km<sup>2</sup>)

### **Populated Areas:**



Source: iSciences

2011

#### **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

China ranks 19 out of 164 countries assessed for Multi Hazard Risk. China has a Multi Hazard Risk higher than 81% of countries assessed. This indicates that China has a medium likelihood of loss and/or disruption to normal function if exposed to a hazard.

Japan ranks 49 out of 164 countries assessed for Multi Hazard Risk. Japan has a Multi Hazard Risk higher than 51% of countries assessed. This indicates that Japan has a medium likelihood of loss and/or disruption to normal function if exposed to a hazard.



### 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.

China ranks 82 out of 164 countries assessed for Lack of Resilience. China is less resilient than 50% of countries assessed. This indicates that China has medium susceptibility to negative impacts, and is less able to respond to and recover from a disruption to normal function.

Japan ranks 140 out of 164 countries assessed for Lack of Resilience. Japan is less resilient than 15% of countries assessed. This indicates that Japan has low susceptibility to negative impacts, and is better able to respond to and recover from a disruption to normal function.



#### **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		
	12-Mar-1966 00:16:00	8.00	48	TAIWAN	24.1° N / 122.6° E		
	05-Jun-1920 00:04:00	8.00	-	TAIWAN	23.5° N / 122.7° E		
	14-Nov-1986 00:21:00	7.80	34	TAIWAN: TAIPEI, HUALIEN	23.9° N / 121.57° E		
	12-Apr-1910 00:00:00	7.80	200	TAIWAN	25.5° N / 122.5° E		
	20-Sep-1999 00:17:00	7.70	33	TAIWAN: NANTOU, TAICHUNG, TAIZHONG	23.77° N / 120.98° E		

Source: Earthquakes

# **Volcanic Eruptions:**

5 Largest Volcanic Eruptions (Last updated in 2000)							
Event	Name	Date (UTC)	Volcanic Explosivity Index	Location	Lat/Long		
٩	IRIOMOTE-JIMA	31-Oct-1925 00:00:00	2.00	RYUKYU IS	24.56° N / 124° E		
	UNNAMED	15-Jan-1854 00:00:00	2.00	TAIWAN-E OF	21.83° N / 121.18° E		

Event	Name	Date (UTC)	Volcanic Explosivity Index	Location	Lat/Long
Ó	UNNAMED	29-Oct-1853 00:00:00	2.00	TAIWAN-E OF	24° N / 121.83° E
٩	ZENGYU	18-Apr-1916 00:00:00	0.00	TAIWAN-N OF	26.18° N / 122.46° E
Courses Maleon					

Source: Volcanoes

# Tsunami Runups:

5 Largest Tsunami Runups								
Event	Date (UTC)	Country	Runup (m)	Deaths	Location	Lat/Long		
	24-Apr-1771 00:00:00	JAPAN	85.4	13486	MIYARA, ISHIGAKI ISLAND	24.35° N / 124.22° E		
	24-Apr-1771 00:00:00	JAPAN	12	-	MIYAKO ISLAND	24.79° N / 125.26° E		
	09-Aug-1792 00:00:00	TAIWAN	10	-	LUERMEN, TAINAN CITY	22.97° N / 120.17° E		
	07-Dec-1944 00:00:00	JAPAN	6	-	NAKURA	24.38° N / 124.15° E		
	07-Dec-1944 00:00:00	JAPAN	2.5	-	GOZA	24.3° N / 123.82° E		
Source: Tsunar	nis							

# **Tropical Cyclones:**

5 Largest Tropical Cyclones								
Event	Name	Start/End Date(UTC)	Max Wind Speed (mph)	Min Pressure (mb)	Location	Lat/Long		
٢	JOAN	25-Aug-1959 12:00:00 - 31-Aug-1959 12:00:00	196	No Data	Western Pacific	22.51° N / 130° E		
٩	SARAH	11-Sep-1959 06:00:00 - 19-Sep-1959 18:00:00	190	No Data	Western Pacific	30.75° N / 135.65° E		
٢	GRACE	29-Aug-1958 18:00:00 - 05-Sep-1958 06:00:00	190	No Data	Western Pacific	22.63° N / 131.45° E		
٢	DINAH	12-Jun-1965 12:00:00 - 20-Jun-1965 12:00:00	184	No Data	Western Pacific	23.88° N / 132.2° E		
٢	WANDA	27-Jul-1956 06:00:00 - 03-Aug-1956 12:00:00	184	No Data	Western Pacific	27.06° N / 128.3° E		

Source: Tropical Cyclones

### **Disclosures**

\* As defined by the source (<u>Dartmouth Flood Observatory</u>, 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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