| Pacific Disaster Center | HONOLULU        | WASH.D.C.       | ZULU            | NAIROBI         | BANGKOK         | FIJI        |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|
| Area Brief: General     | <b>10:30:12</b> | <b>16:30:12</b> | <b>20:30:12</b> | <b>23:30:12</b> | <b>03:30:12</b> | 08:30:12    |
| Executive Summary       | 26 Sep 2016     | 26 Sep 2016     | 26 Sep 2016     | 26 Sep 2016     | 27 Sep 2016     | 27 Sep 2016 |

Region Selected » Lower Left Latitude/Longitude: -22.5324 N°, 174.7406 E° Upper Right Latitude/Longitude: -16.5324 N°, 180.0 E°



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           |  |  |
|                    | 0        | 26-Sep-2016 20:29:09 | 5.2       | 52.2       | 170km SSW of Suva, Fiji | 19.53° S/177.74° E |  |  |
| Source: <u>PDC</u> |          |                      |           |            |                         |                    |  |  |

## 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. Fiji ranks 79 out of 165 on the Lack of Resilience index with a score of 0.44.



Fiji ranks 79 out of 165 on the Lack of Resilience Index. Based on the sub-component scores related to Vulnerability and Coping Capacity, the three thematic areas with the weakest relative scores are Environmental Capacity, Recent Disaster Impacts and Marginalization.

Source: <u>PDC</u>

**Regional Overview** 

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## **Population Data:**

**Populated Areas:** 

300 000 Suva - 100,000 to 249,999 Total: 820, 740 Max Density: 9, 586(ppl/km<sup>2</sup>) 200 000 100 000 0 Suva

Source: iSciences

#### **Risk & Vulnerability**

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#### **Multi Hazard Risk Index:**

Fiji ranks 32 out of 165 on the Multi-Hazard Risk Index with a score of 0.58. Fiji is estimated to have relatively very high overall exposure, low vulnerability, and medium coping capacity.



#### 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. Fiji ranks 79 out of 165 on the Lack of Resilience index with a score of 0.44.



Fiji ranks 79 out of 165 on the Lack of Resilience Index. Based on the sub-component scores related to Vulnerability and Coping Capacity, the three thematic areas with the weakest relative scores are Environmental Capacity, Recent Disaster Impacts and Marginalization.

Source: PDC

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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             |  |  |  |
|   | 03-Mar-1990 00:12:00 | 7.60      | 33         | FIJI ISLANDS                        | 22.12° S/175.16° E   |  |  |  |
|   | 14-Sep-1953 00:00:00 | 6.80      | 60         | FIJI ISLANDS                        | 18.2° S/178.3° E     |  |  |  |
|   | 08-Mar-1932 00:18:00 | 6.20      | -          | FIJI ISLANDS:<br>KORO,MUDU,SUVASAVU | 17.5° S/179.6° E     |  |  |  |
|   | 06-Feb-2016 01:39:18 | 5.50      | 10         | 276km WNW of Nadi, Fiji             | 17° S/174.95° E      |  |  |  |
|   | 16-May-2016 11:24:07 | 5.30      | 18.46      | 175km WNW of Lautoka, Fiji          | 17.23° S / 175.86° E |  |  |  |

Source: Earthquakes

### **Tsunami Runups:**

| 5 Largest Tsunami Runups |                      |         |           |        |                                 |                      |  |  |
|--------------------------|----------------------|---------|-----------|--------|---------------------------------|----------------------|--|--|
| Event                    | Date (UTC)           | Country | Runup (m) | Deaths | Location                        | Lat/Long             |  |  |
| $\diamond$               | 14-Sep-1953 00:00:00 | FIJI    | 15        |        | SOUTHERN COAST VITI LEVU ISLAND | 18.28° S / 178.13° E |  |  |
| $\diamond$               | 14-Sep-1953 00:00:00 | FIJI    | 4.57      | 2      | NAKASALEKA, KANDAVU ISLAND      | 19.05° S/178.22° E   |  |  |
| $\diamond$               | 14-Sep-1953 00:00:00 | FIJI    | 3         | 3      | SUVA, VITI LEVU ISLAND          | 18.13° S / 178.43° E |  |  |

| Event      | Date (UTC)           | Country | Runup (m) | Deaths | Location     | Lat/Long             |
|------------|----------------------|---------|-----------|--------|--------------|----------------------|
| $\diamond$ | 10-May-1877 00:00:00 | FIJI    | 2         | 2000   | FIJI ISLANDS | 18° S/178° E         |
| چ          | 14-Sep-1953 00:00:00 | FIJI    | 1.8       | -      | LAMI         | 18.12° S / 178.42° E |

Source: <u>Tsunamis</u>

# **Tropical Cyclones:**

| 5 Largest Tropical Cyclones |                |  |                         |                      |                  |                      |  |  |
|-----------------------------|----------------|--|-------------------------|----------------------|------------------|----------------------|--|--|
| Event                       | Name           | Start/End Date(UTC)                            | Max Wind Speed<br>(mph) | Min Pressure<br>(mb) | Location         | Lat/Long             |  |  |
| ٢                           | WINSTON        | 12-Feb-2016 00:00:00 - 23-Feb-2016<br>00:00:00 | 184                     | -                    | -                | 19.08° S / 177.43° E |  |  |
| ٢                           | 1997-12-<br>20 | 01-Jan-1998 00:00:00 - 09-Jan-1998<br>12:00:00 | 161                     | No Data              | Southern Pacific | 22.67° S/0°          |  |  |
| ٢                           | 1985-03-<br>12 | 12-Mar-1985 06:00:00 - 18-Mar-1985<br>18:00:00 | 155                     | No Data              | Southern Pacific | 23.07° S/0°          |  |  |
| ٢                           | 1990-11-<br>23 | 23-Nov-1990 12:00:00 - 29-Nov-1990<br>06:00:00 | 144                     | No Data              | Southern Pacific | 14.13° S/0°          |  |  |
| ۲                           | 1997-03-<br>02 | 02-Mar-1997 06:00:00 - 12-Mar-1997<br>18:00:00 | 138                     | No Data              | Southern Pacific | 22.38° S/0°          |  |  |

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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