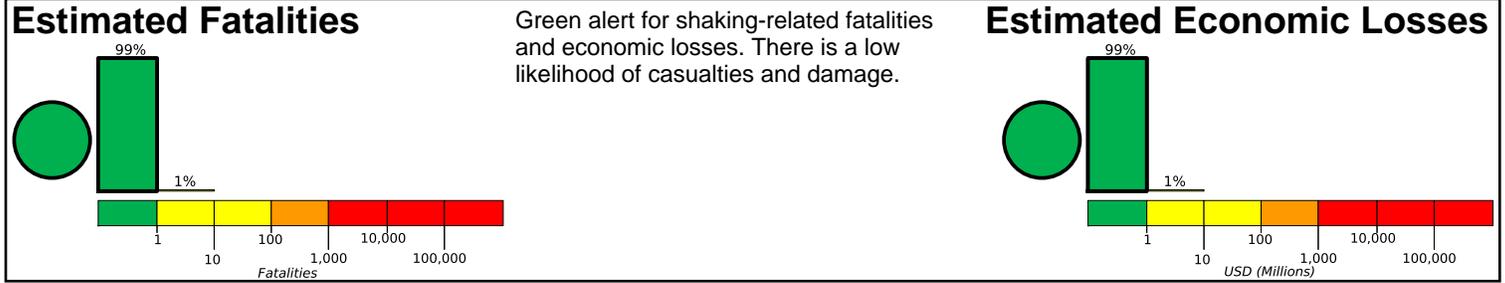


**M 5.3, COOK STRAIT, NEW ZEALAND**

Origin Time: Thu 2013-07-18 21:06:39 UTC (09:06:39 local)

Location: 41.56°S 174.36°E Depth: 16 km

Created: 55 minutes, 15 seconds after earthquake

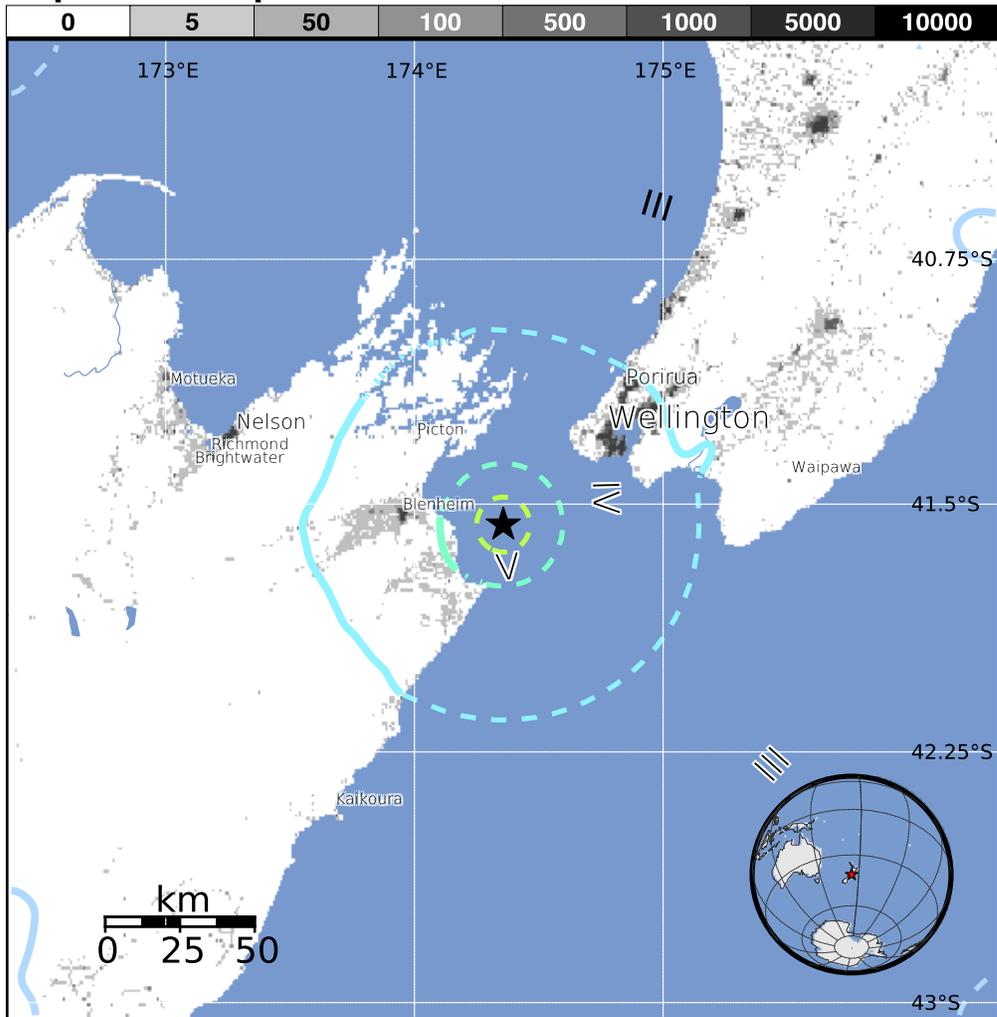


**Estimated Population Exposed to Earthquake Shaking**

|   |                       |          |        |       |          |          |                |                |          |          |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) |                       | --*      | 408k   | 394k  | 0        | 0        | 0              | 0              | 0        | 0        |
| ESTIMATED MODIFIED MERCALLI INTENSITY     |                       | I        | II-III | IV    | V        | VI       | VII            | VIII           | IX       | X+       |
| PERCEIVED SHAKING                         |                       | Not felt | Weak   | Light | Moderate | Strong   | Very Strong    | Severe         | Violent  | Extreme  |
| POTENTIAL DAMAGE                          | Resistant Structures  | none     | none   | none  | V. Light | Light    | Moderate       | Moderate/Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | none     | none   | none  | Light    | Moderate | Moderate/Heavy | Heavy          | V. Heavy | V. Heavy |

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures:**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though some vulnerable structures exist.

**Historical Earthquakes (with MMI levels):**

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1992-03-02 | 215        | 5.5  | V(3k)      | 0              |
| 1990-02-10 | 151        | 6.0  | VIII(61)   | 0              |
| 1990-05-13 | 206        | 6.4  | VIII(440)  | 0              |

**Selected City Exposure**

from GeoNames.org

| MMI City             | Population |
|----------------------|------------|
| IV Blenheim          | 27k        |
| IV Karori            | 14k        |
| IV Brooklyn          | 4k         |
| IV Wellington        | 382k       |
| IV Kelburn           | 4k         |
| IV Picton            | 3k         |
| IV Lower Hutt        | 101k       |
| IV Porirua           | 51k        |
| III Richmond         | 14k        |
| III Nelson           | 59k        |
| III Palmerston North | 76k        |

bold cities appear on map

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<http://earthquake.usgs.gov/pager>

Event ID: usb000ih9z