Regional tectonics and Seismicity, and Earthquake Hazard

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Intraplate Earthquake
Since 1960 magnitude > 6
Fig. 1. Map of the southern part of the Pacific with epicenters listed in Table 1. This is a standard Mercator projection. The continuous lines are the plate boundaries. Solid dots are IP sites, identified by their number. Open triangles, with codes, are seismic locations identified by the French Polynesian network, having had seismicity at a magnitude level \( \geq 4.7 \), or discussed in the text.
Figure 2  Mercator projection map of significant oceanic intraplate earthquakes used in the present review. Oceanic plate boundaries shown as dotted lines. Numbers refer to Table 1. Events 15 and 19, in northern part of North American plate, are not shown.
Subduction zones of the Pacific Ocean

Figure 2a: The subduction zones (in orange) of the Pacific Ocean
Regional subduction zones

Figure 2b: The location of the Cook Islands and other Pacific Island Countries in relation to regional and local subduction zones (in orange)
Feb. 2010 Chilean Tsunami