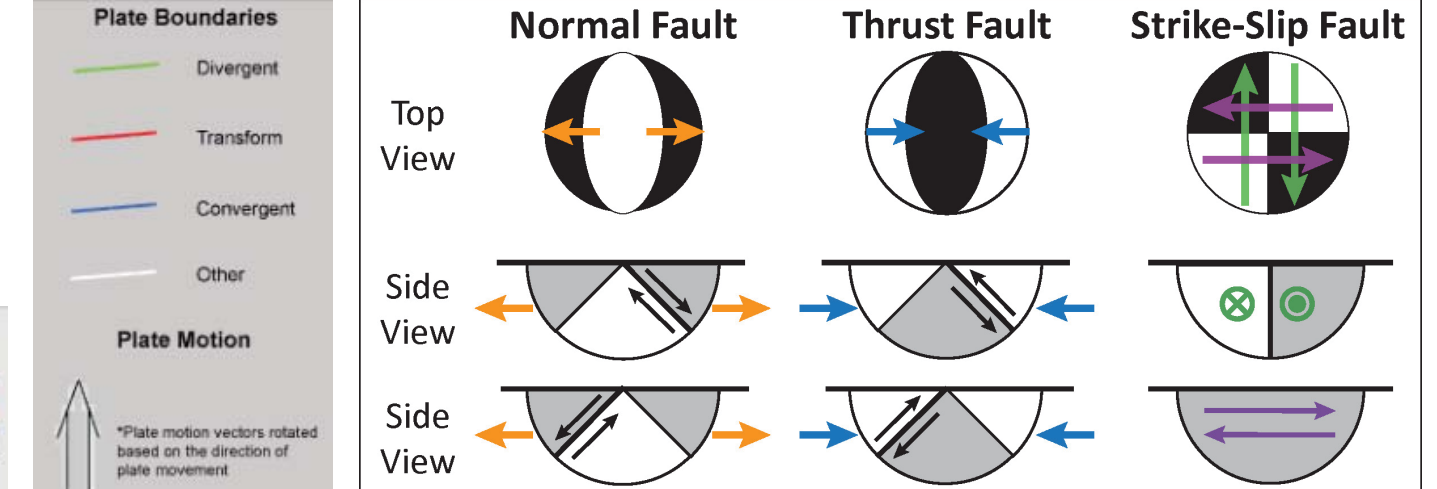
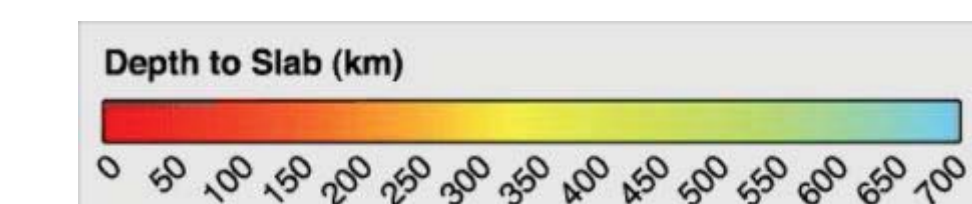


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M 4.0 Mendocino

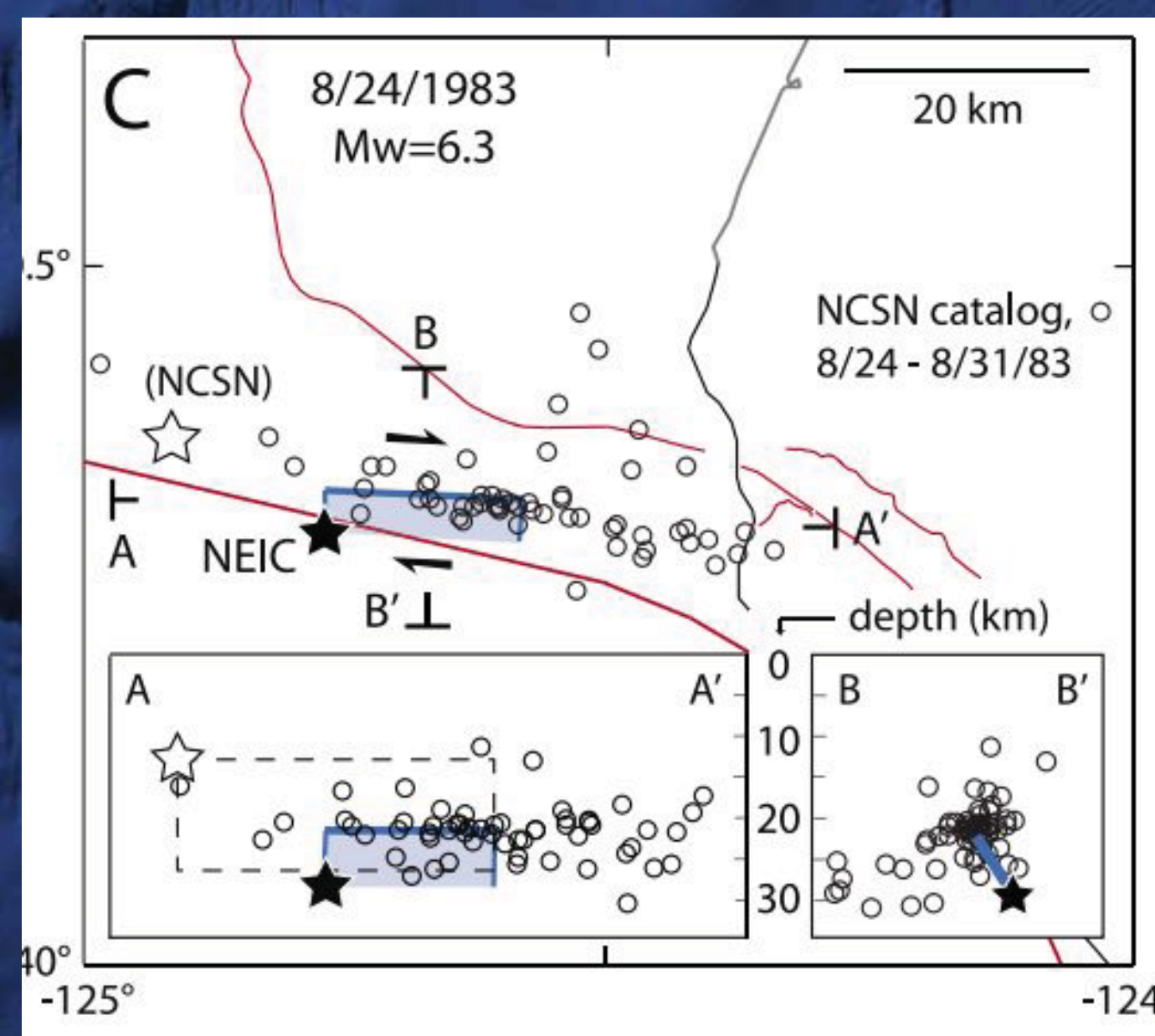
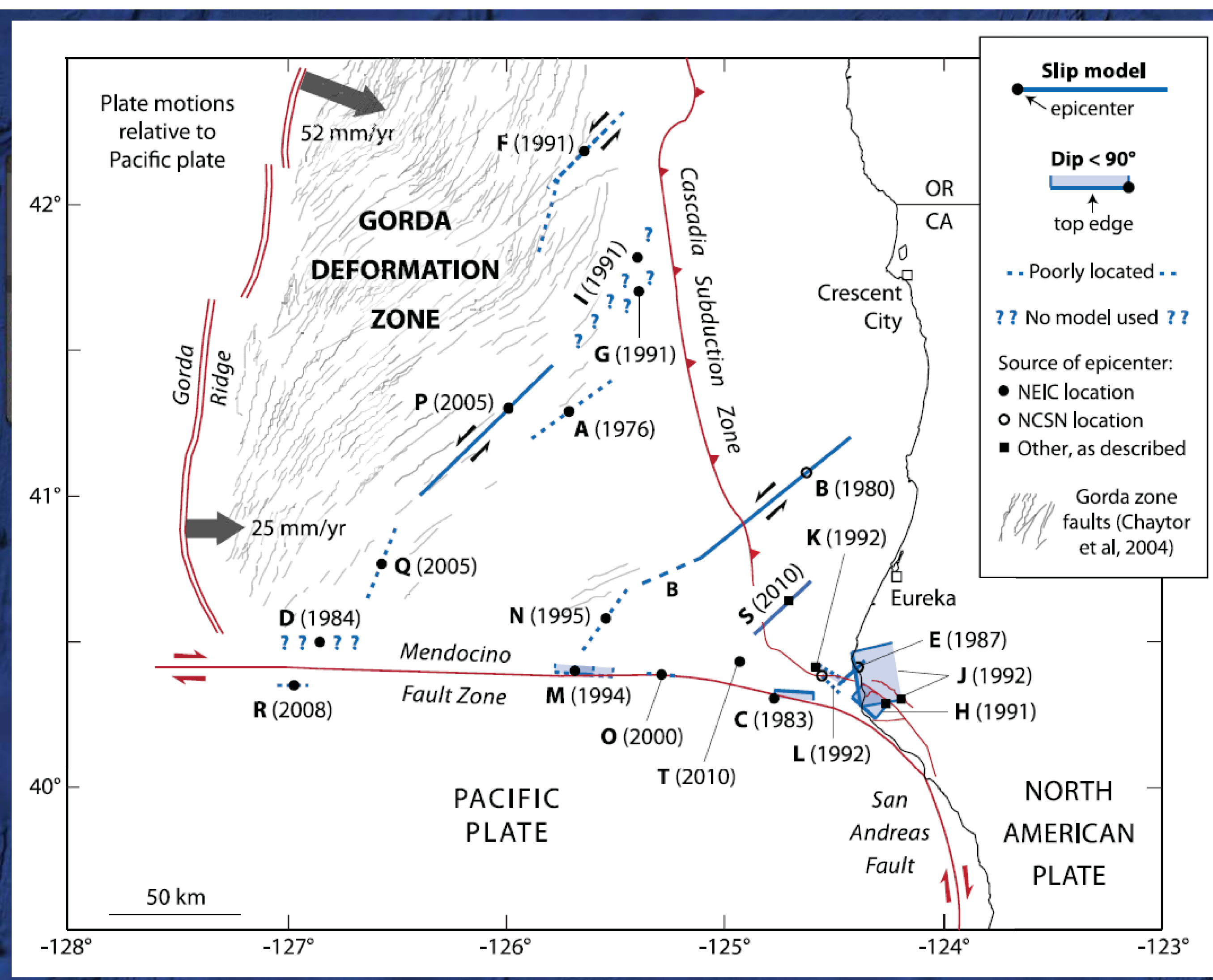
Jason R. Patton
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USGS Google Earth

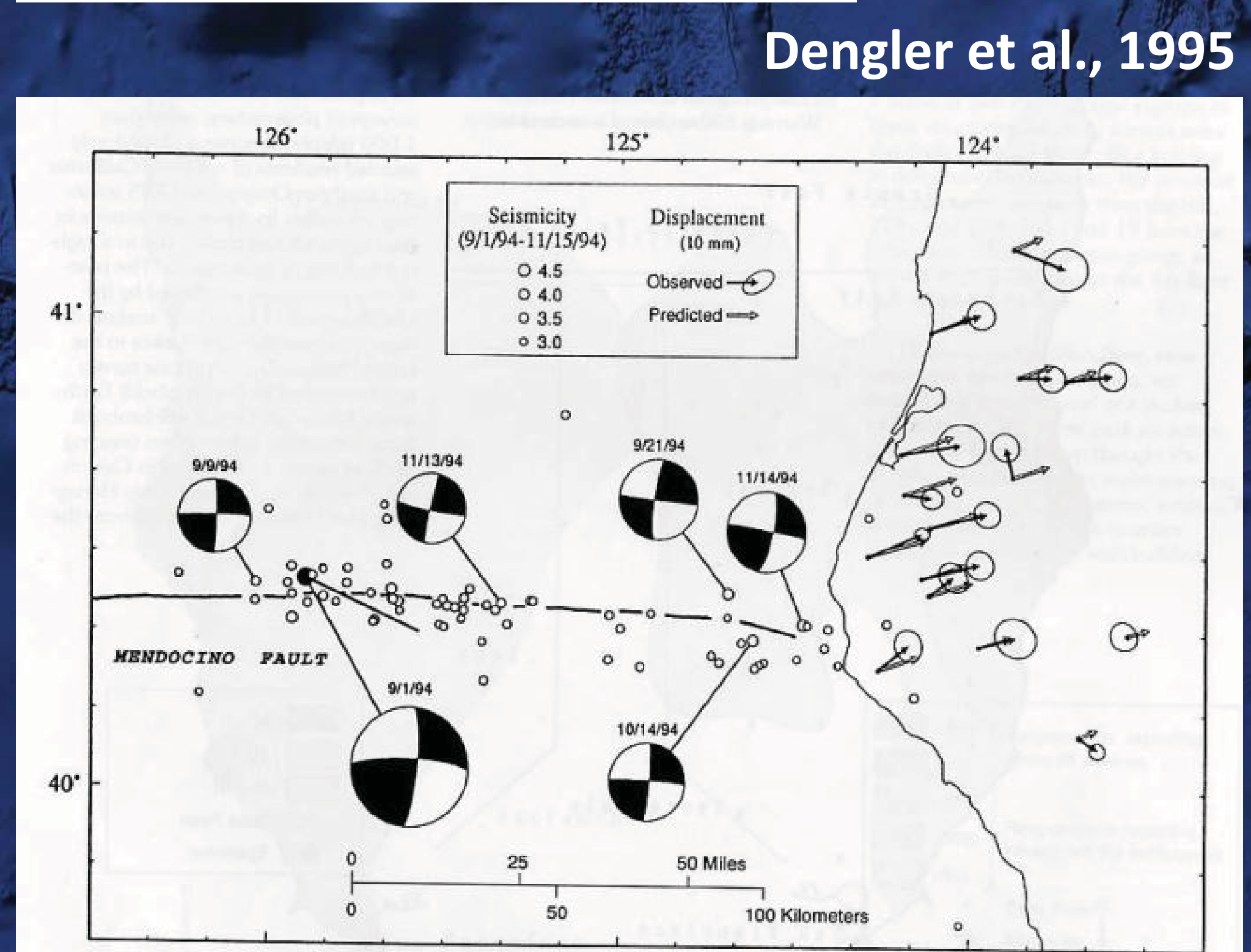


INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Damage	None	None	None	Very slight	Light	Moderate	Moderate/heavy	Heavy	Very heavy
Peak Acc	<0.17	0.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
Peak Vel	<0.1	0.1-1.1	1.1-3.4	3.4-8.1	8.1-16	16-31	31-60	60-116	>116

Peak Acc = Peak ground acceleration (g). Peak Vel = Peak ground velocity (cm/s)



Rollins and Stein, 2010



Dengler et al., 1995

Figure 2. Seismicity from September 1, 1994 through November 15, 1994, and movements of the earth's crust produced by the Mendocino Fault earthquake. Focal mechanisms for the main shock and five of the largest aftershocks indicate fault strikes from 91 to 102 degrees, consistent with the strike of the Mendocino Fault. Solid arrows show the change in station position between the pre- and post-earthquake surveys. The ellipses represent the 95 percent confidence interval. The open arrows are the predicted displacements produced by the best-fitting geocentric fault model.

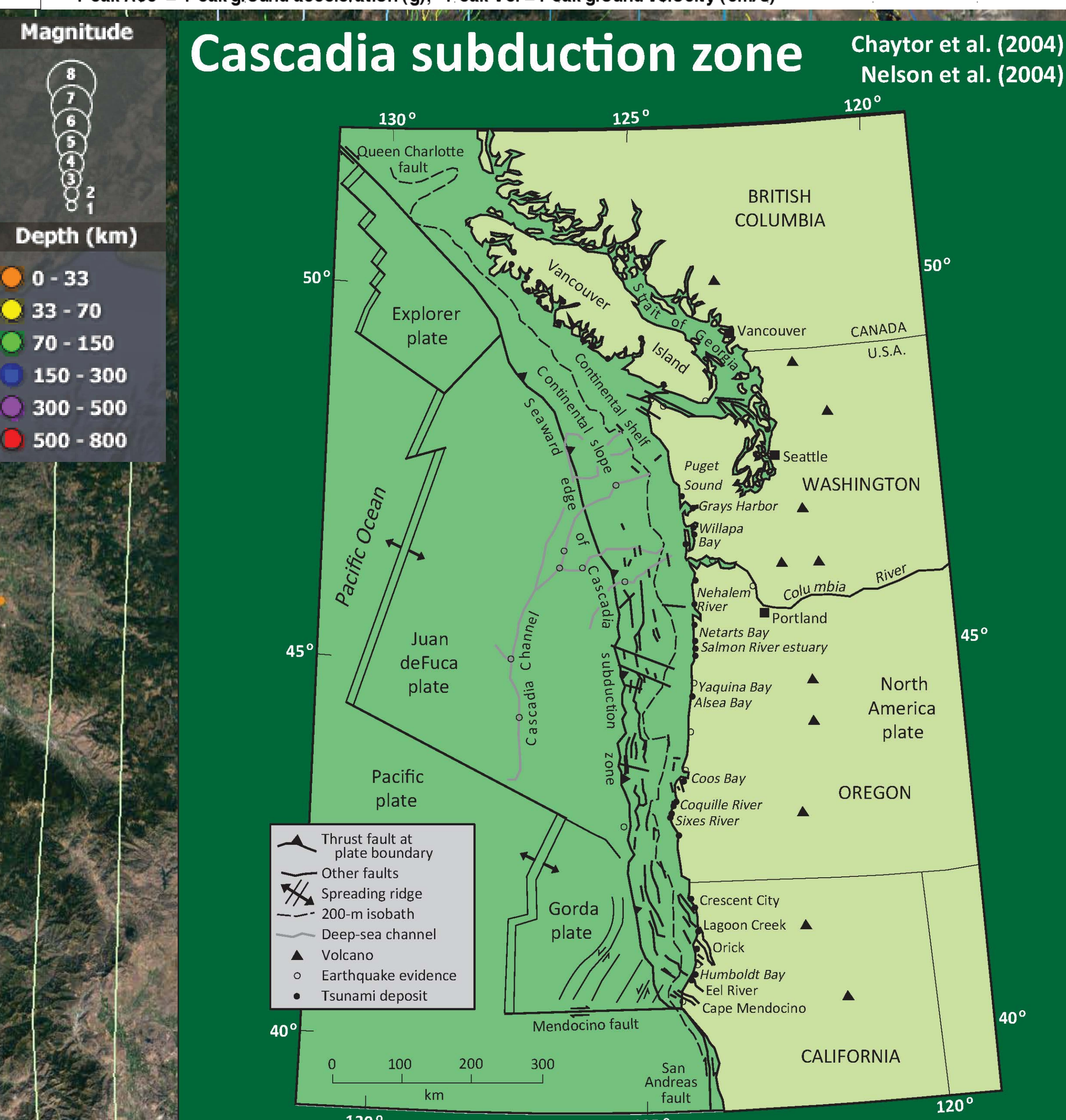
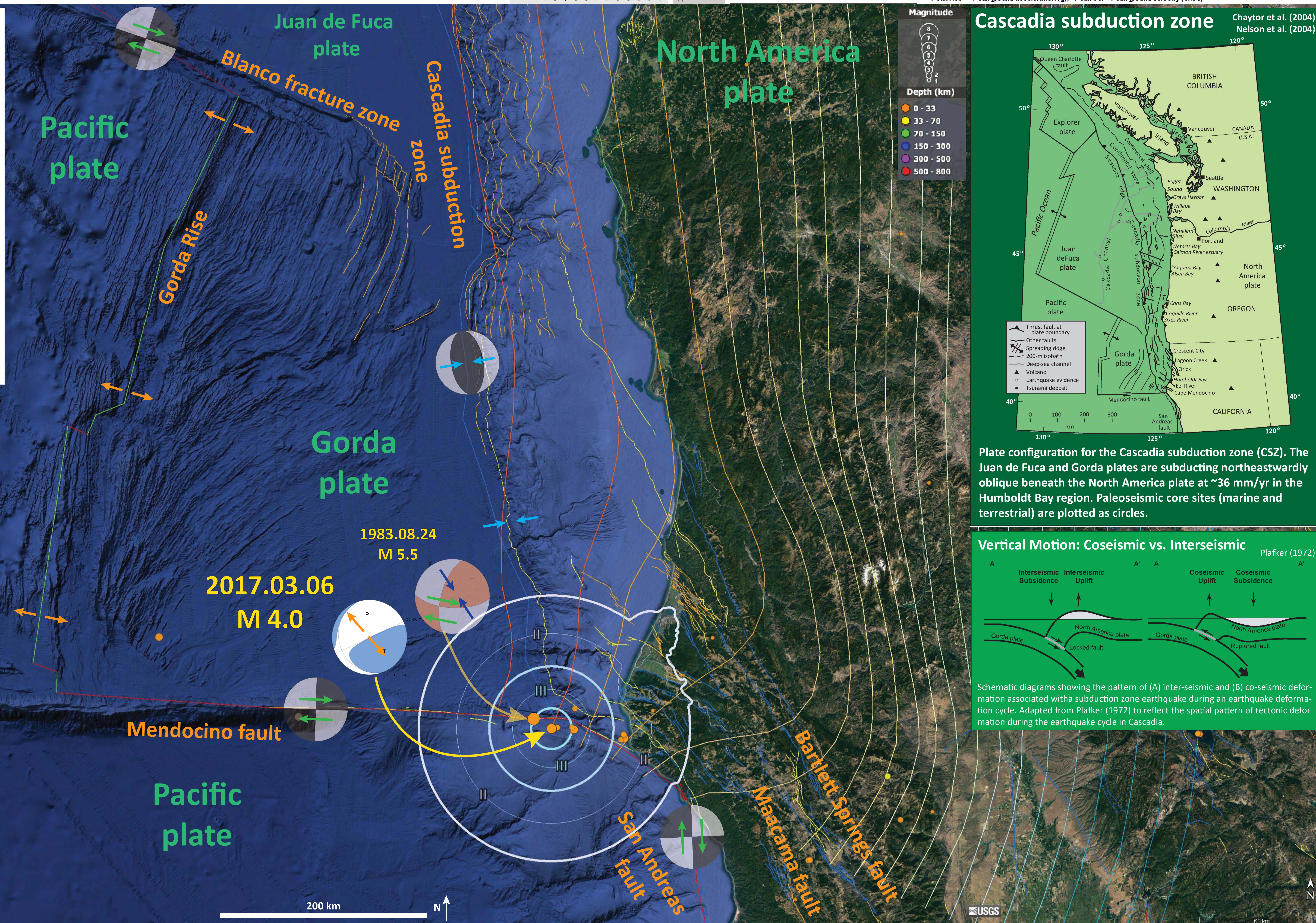
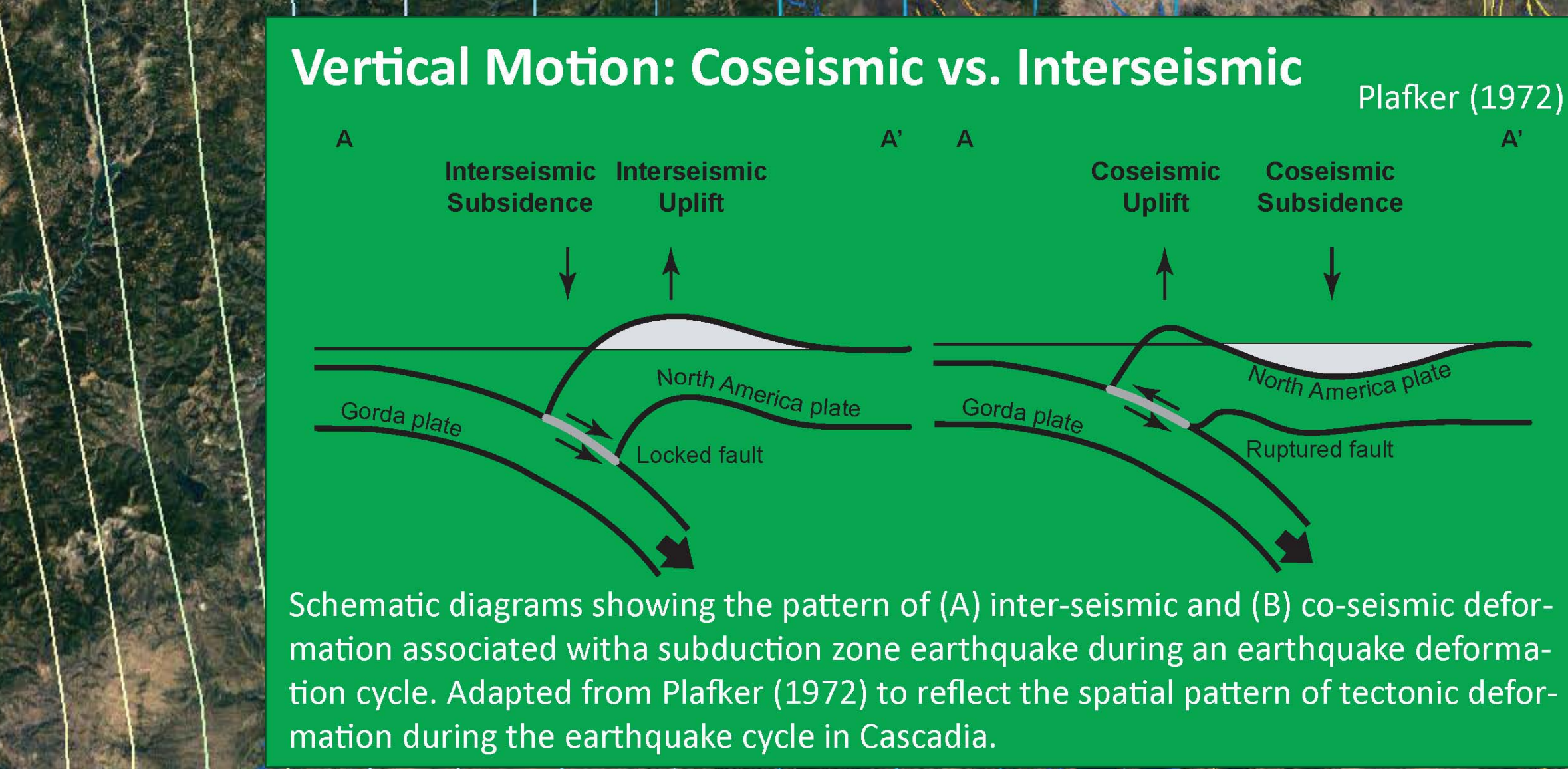


Plate configuration for the Cascadia subduction zone (CSZ). The Juan de Fuca and Gorda plates are subducting northeastwardly oblique beneath the North America plate at ~36 mm/yr in the Humboldt Bay region. Paleoseismic core sites (marine and terrestrial) are plotted as circles.



Schematic diagrams showing the pattern of (A) inter-seismic and (B) co-seismic deformation associated with subduction zone earthquake during an earthquake deformation cycle. Adapted from Plafker (1972) to reflect the spatial pattern of tectonic deformation during the earthquake cycle in Cascadia.