Earthquake Report: 2018.09.10

M 6.9 Kermadec (& USGS Seismicity 1918-2018 M ≥ 6.5)

Total Intensity Anomaly (nT)

-200 -150 -100 -50 0 50 100 150 200

CIRES

Jason R. Patton
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USGS Google Earth

Depth to Slab (km)

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

Plate Boundaries: Divergent, Transform, Convergent, Other

Plate Motion

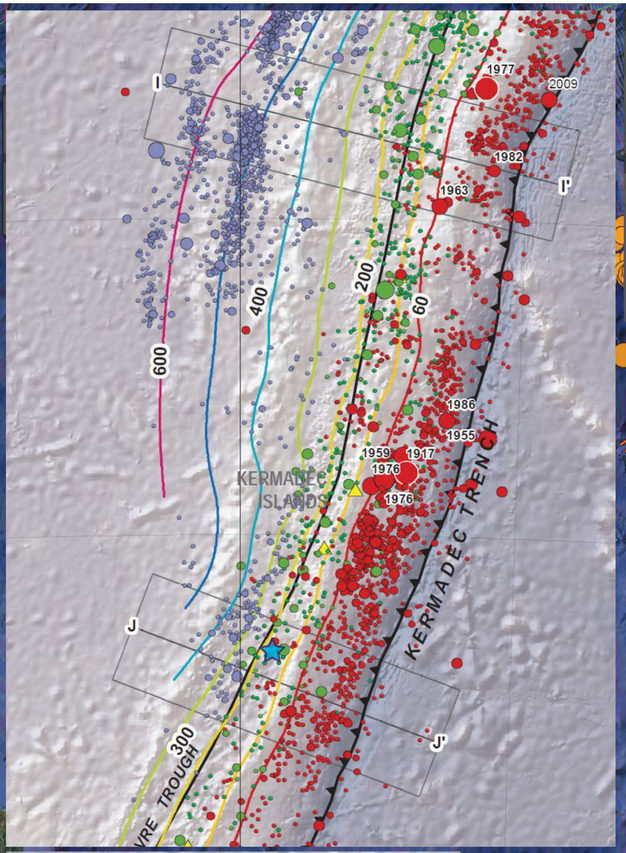
*Plate motion vectors relative to the Pacific plate (no-net-rotation)

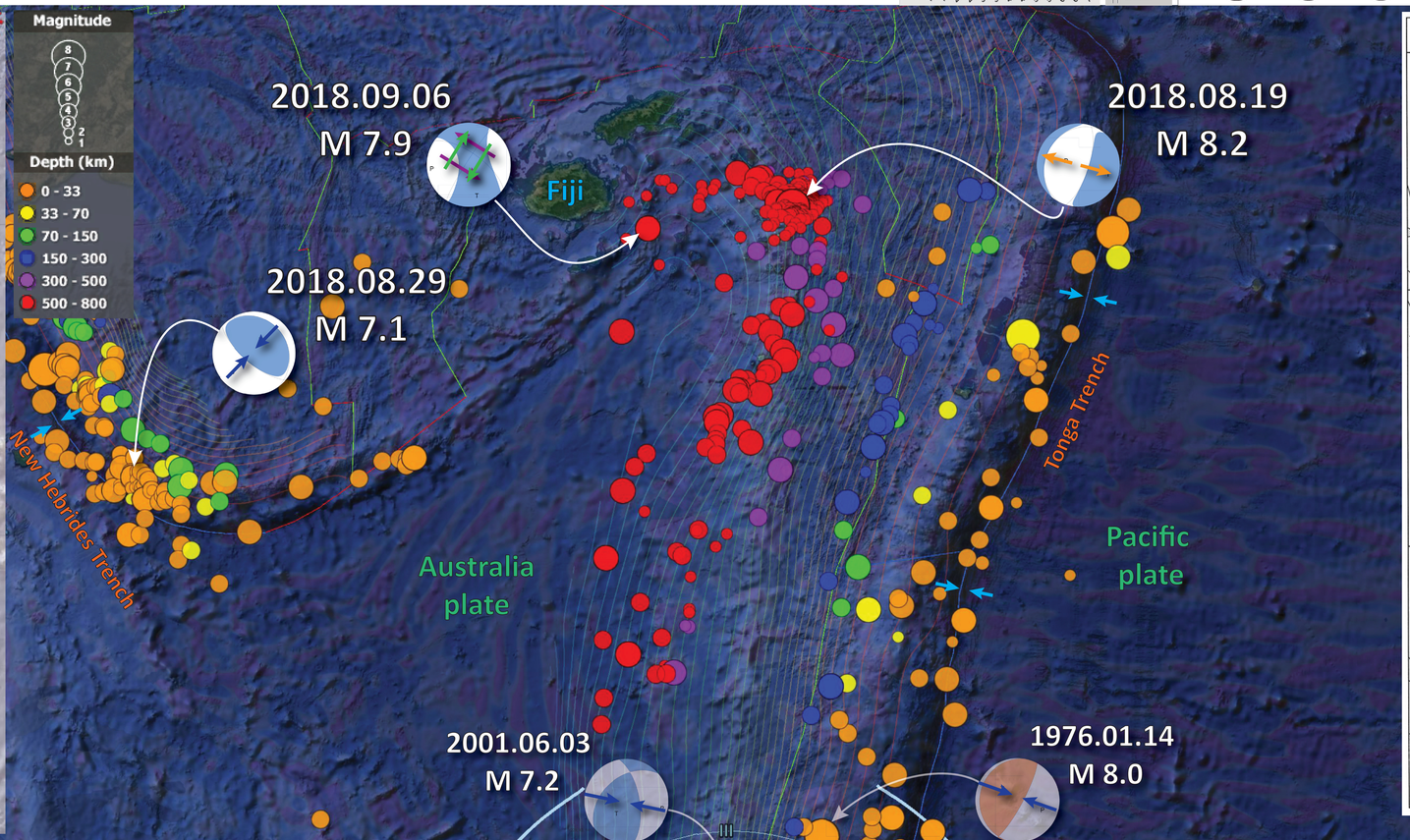
Normal Fault / Thrust Fault / Strike-Slip Fault

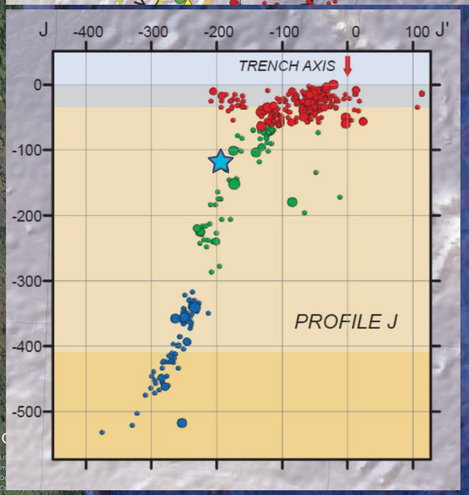
Top View / Side View / Side View

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

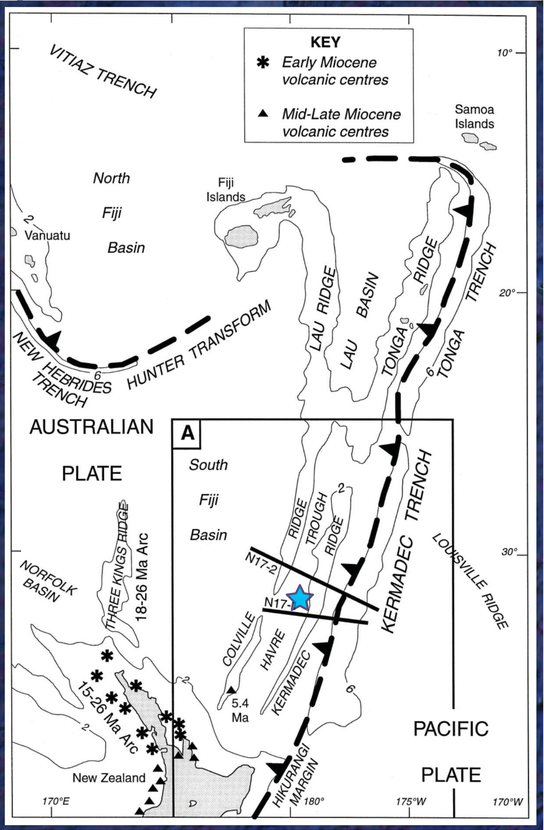
Peak Acc = Peak ground acceleration (g), Peak Vel = Peak ground velocity (cm/s)







Benz et al., 2011



Ballance et al., 1999

WHOI

