

Earthquake Report: 2017.10.31

M 6.8 Loyalty Islands (USGS Seismicity 1917-2017 M≥7.5)

Jason R. Patton
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USGS Google Earth

Magnitude

Depth (km)

Depth to Slab (km)

Plate Boundaries

Normal Fault

Thrust Fault

Strike-Slip Fault

Top View

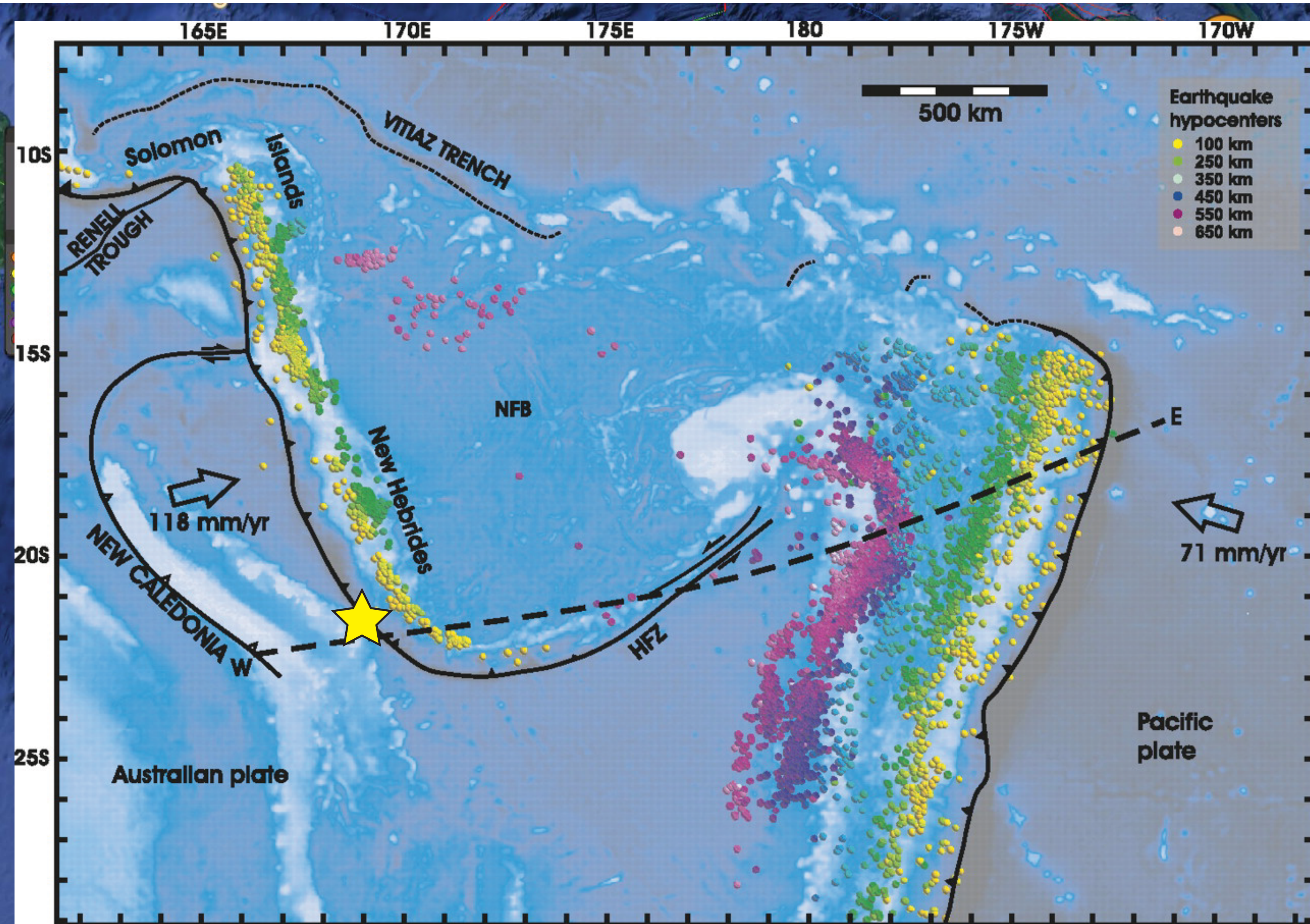
Side View

Side View

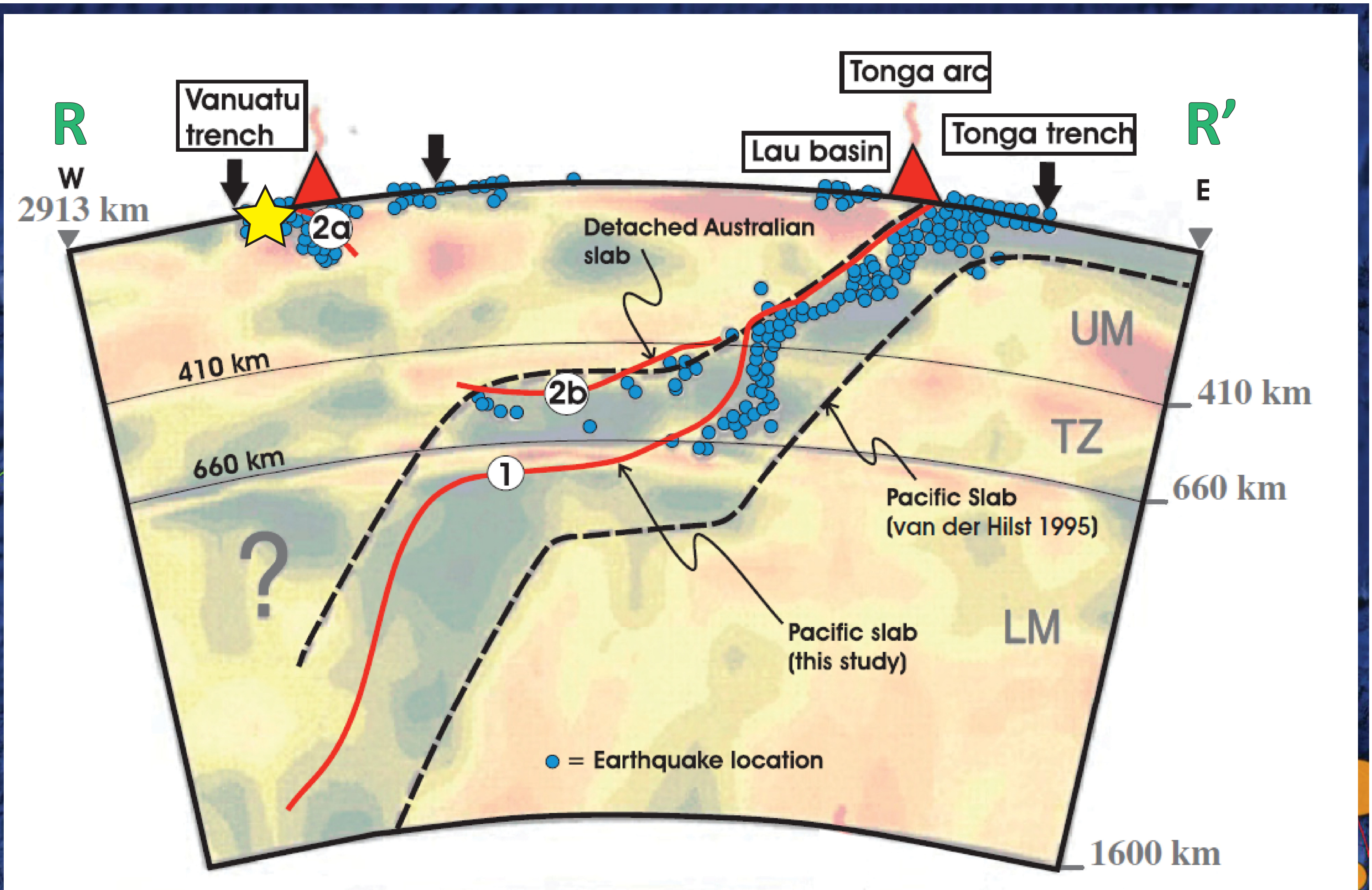
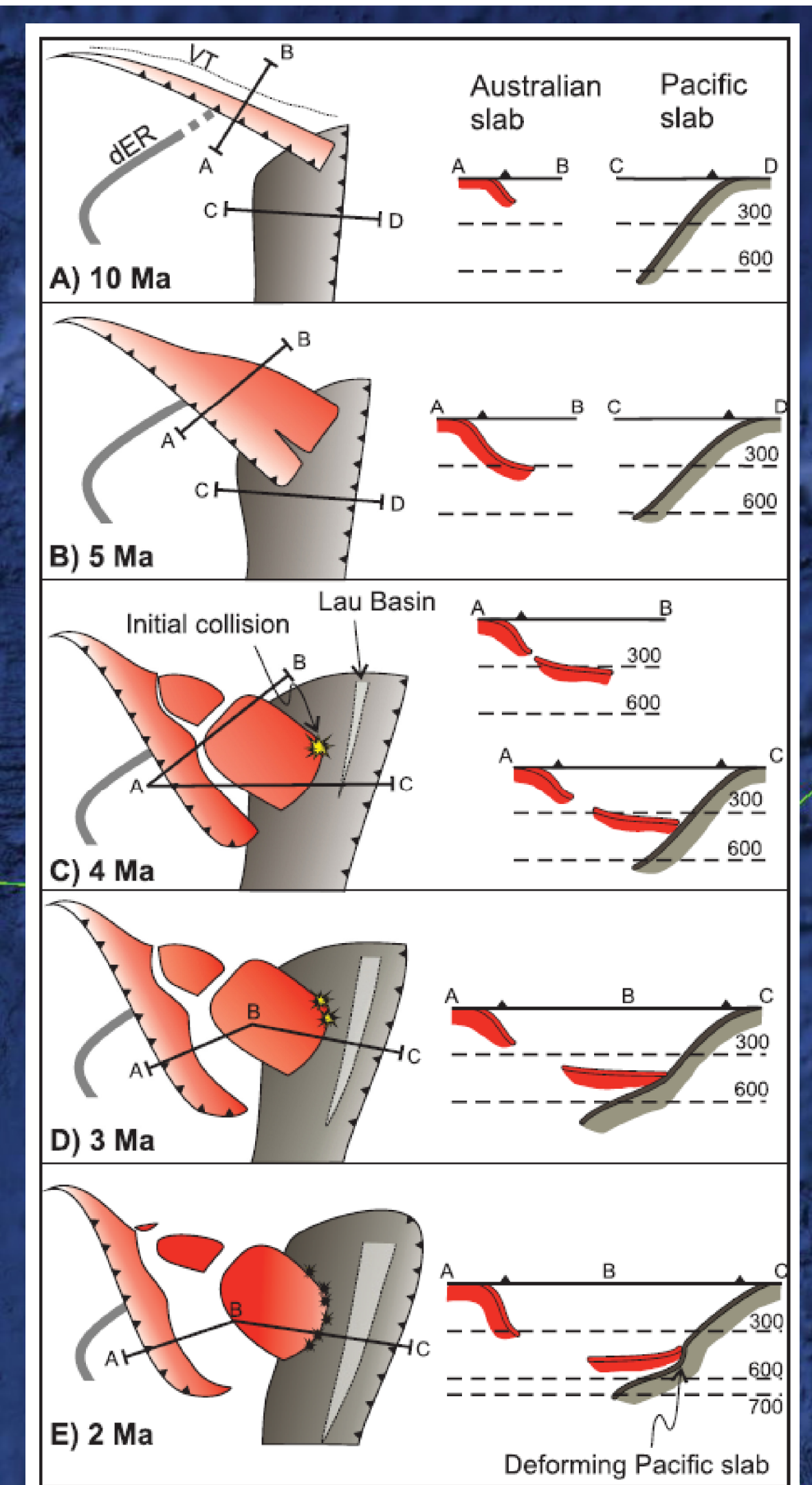
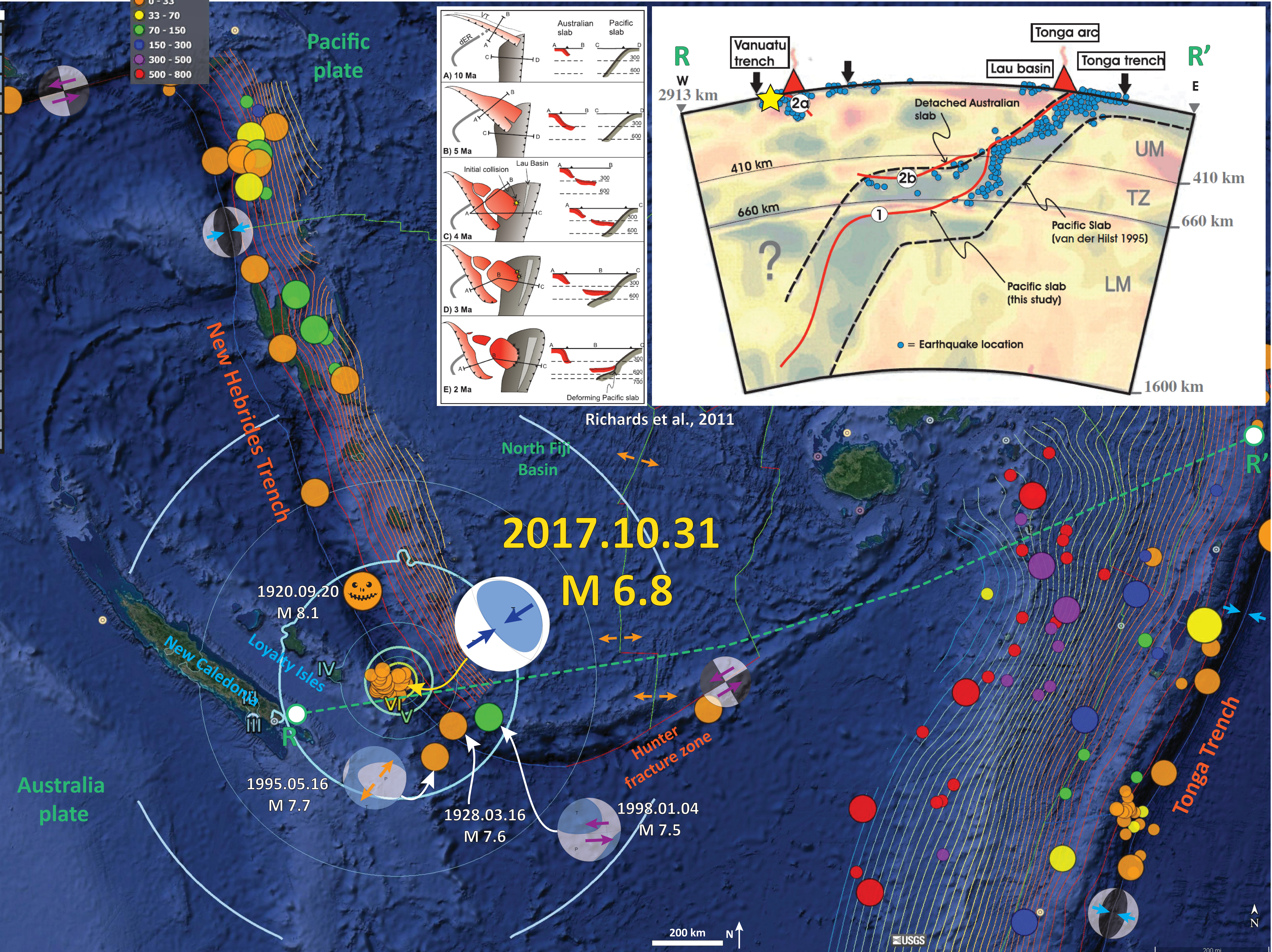
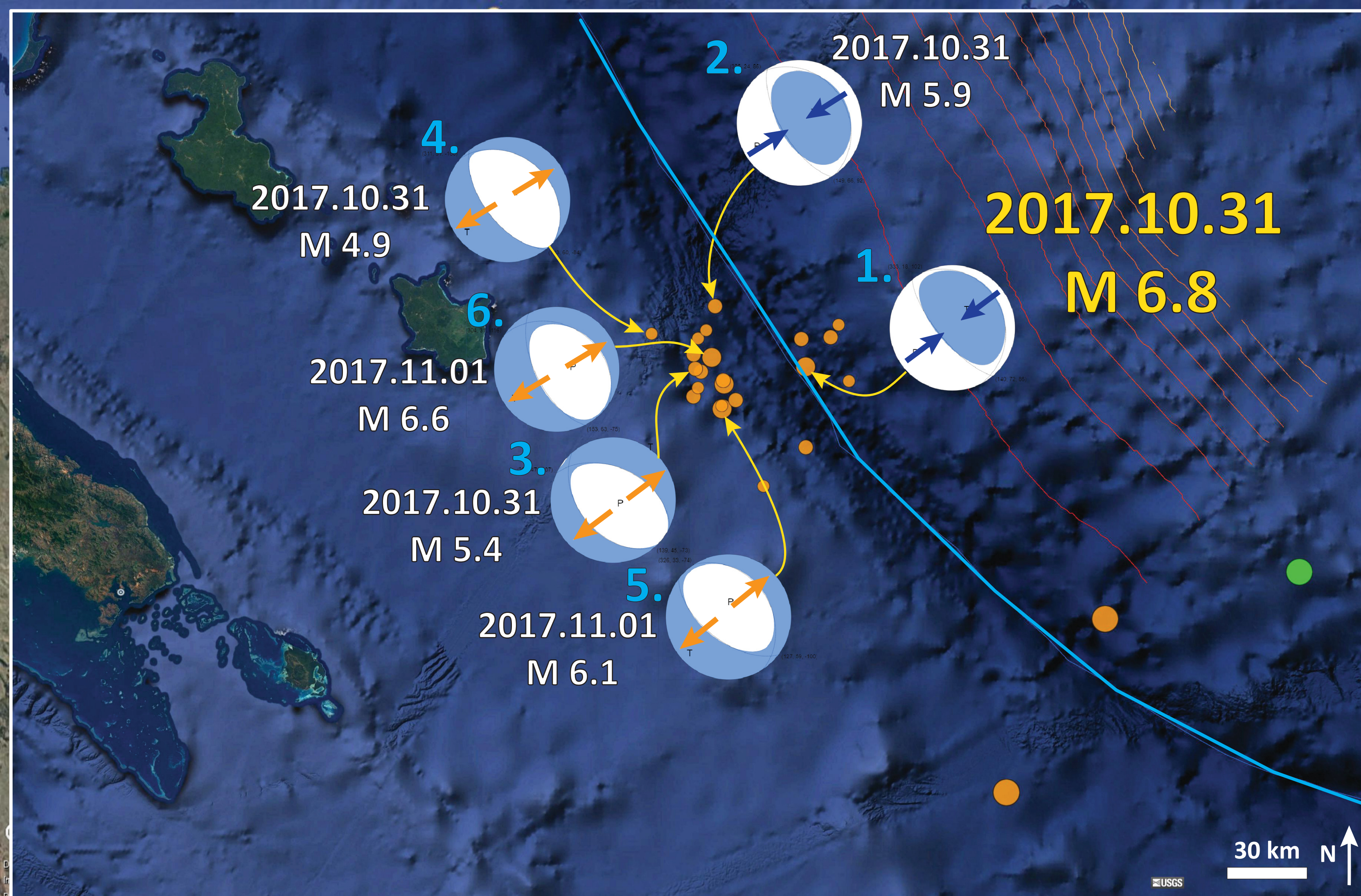
Plate Motion

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)



Richards et al., 2011



Richards et al., 2011

2017.10.31
M 6.8

1920.09.20
M 8.1

1995.05.16
M 7.7

1928.03.16
M 7.6

1998.01.04
M 7.5