Earthquake Report: 2018.01.15

M 4.2 Berkeley (& USGS Seismicity 1918-2018 M ≥ 6.5)

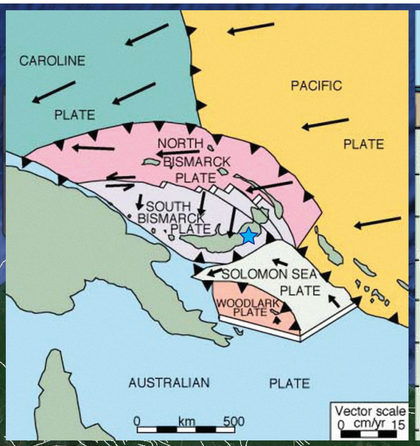
CCOP
COORDINATING COMMITTEE FOR GEOSCIENCE PROGRAMMES IN EAST AND SOUTHEAST ASIA

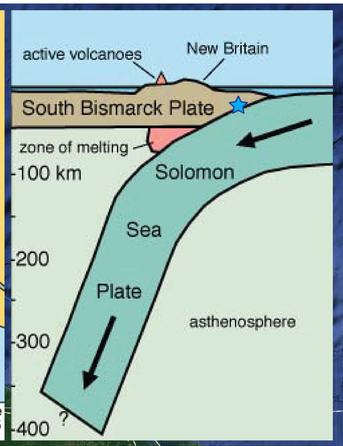
Jason R. Patton
earthjay.com © 2018

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

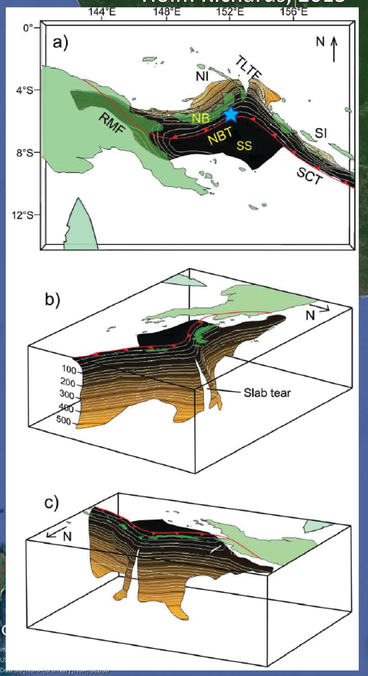
Peak Acc = Peak ground acceleration (g), Peak Vel = Peak ground velocity (cm/s)





Oregon State University

Holm Richards, 2013



Caroline plate

Pacific plate

2018.03.07
M 5.6

2018.03.26
M 6.6

2018.03.24
M 6.3

AU-PA

SS-PA

New Britain trench

Solomon Sea plate

Woodlark plate

S. Solomon trench

Australia plate

200 km N

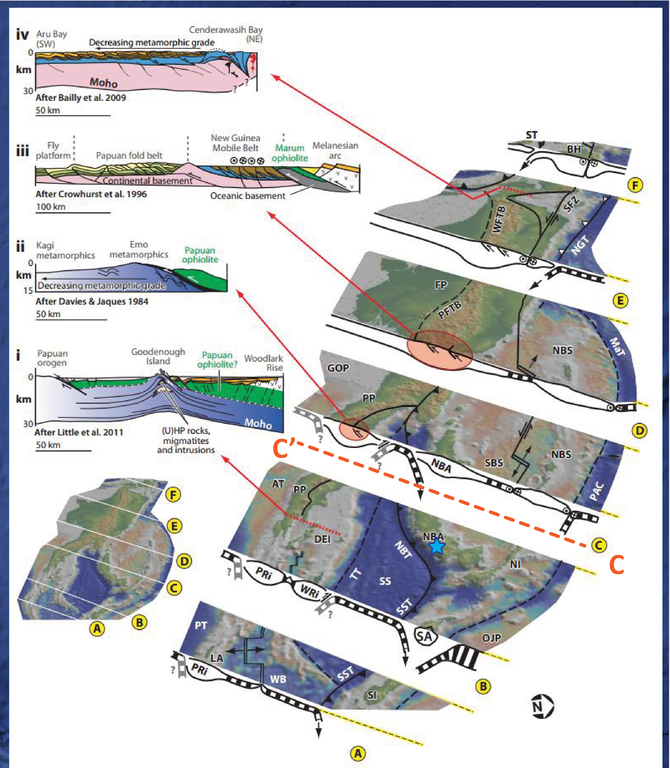
Magnitude
8 7 6 5 4 3 2 1

Depth (km)
0 - 33
33 - 70
70 - 150
150 - 300
300 - 500
500 - 800

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 Pacific plate, NUVEL-1A pole (DeMets et al., 2010)

Normal Fault
Thrust Fault
Strike-Slip Fault
Top View
Side View



Baldwin et al., 2012

Holm et al., 2015

