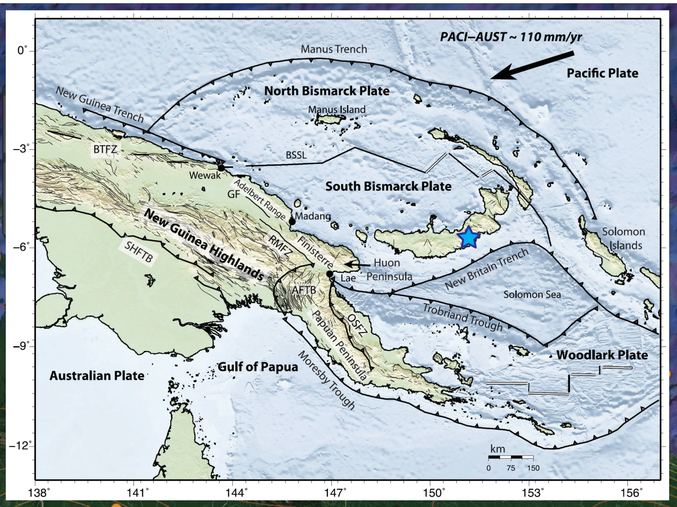
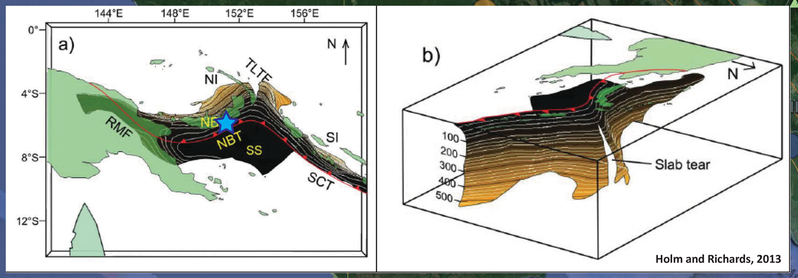
Earthquake Report: 2018.10.10
M 7.0 New Guinea (& USGS Seismicity 1918-2018 M ≥ 7.5)

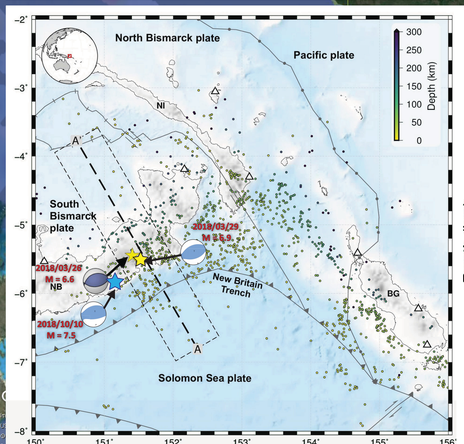


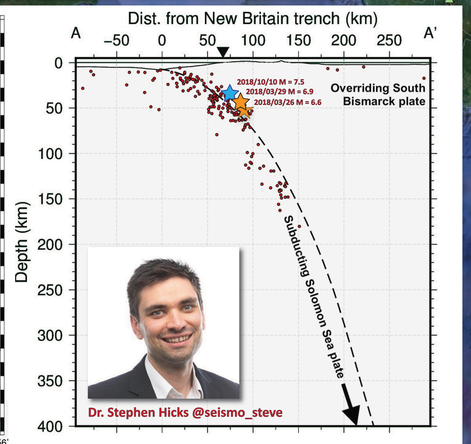
Koulali et al. 2015

Holm & Richards, 2013



Holm and Richards, 2013





Dr. Stephen Hicks @seismo_steve

Caroline Sea plate

Pacific plate

N. Bismarck plate

S. Bismarck plate

2000.11.16
M 8.0

2018.10.10
M 6.2

2018.10.10
M 7.0

2018.10.10
M 6.1

2015.05.05
M 7.5

2015.03.29
M 7.5

1995.08.16
M 7.7

2017.01.22
M 7.9

2007.04.01
M 8.1

2016.12.08
M 7.8

2014.04.12
M 7.6

New Britain trench

Solomon Sea plate

Woodlark plate

Australia plate

S. Solomon trench

300 km

N

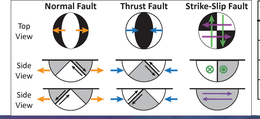
Magnitude
8 7 6 5 4 3 2 1

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

Total Intensity Anomaly (nT)
-200 -150 -100 -50 0 50 100 150 200

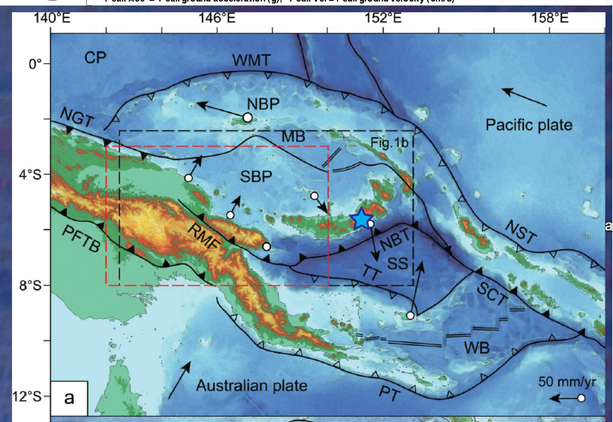
Depth to Slab (km)
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

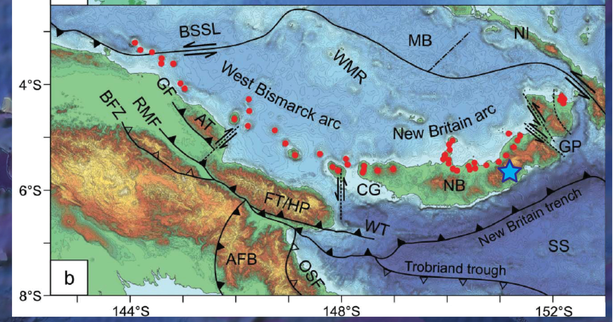
USGS Google Earth



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)





Holm & Richards, 2013