Earthquake Report: 2019.05.06

M 7.2 Papua New Guinea (& USGS Seismicity 1919-2019 M ≥ 7.0)

CCOP Coordinating Committee for Geoscience Programmes in East and Southeast Asia

Total Intensity Anomaly [nT]

CIRES

Jason R. Patton
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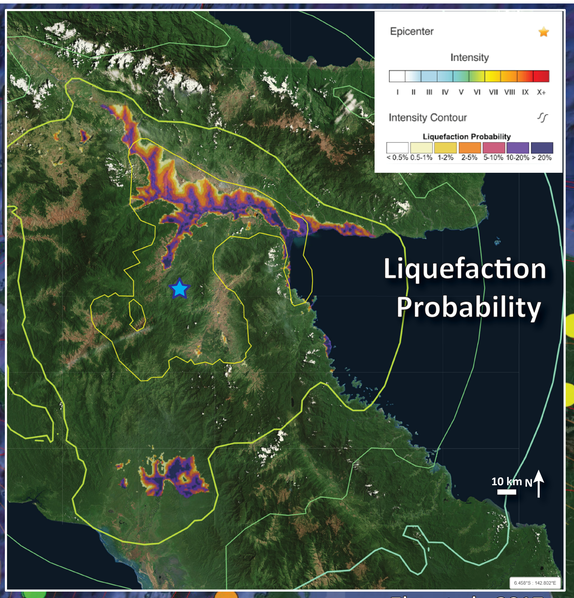
USGS Google Earth

Depth to Slab (km)

Normal Fault | Thrust Fault | Strike-Slip Fault

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)



Zhu et al., 2017

Magnitude

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

Caroline plate

Pacific plate

Manus Trench

New Guinea Trench

N. Bismarck plate

S. Bismarck plate

Papua Fold & Thrust Belt

3.5

4.0

5.0

6.0

4.5

New Britain Trench

Trobriand Trench

Solomon Sea plate

Woodlark Basin

Pocklington Trough

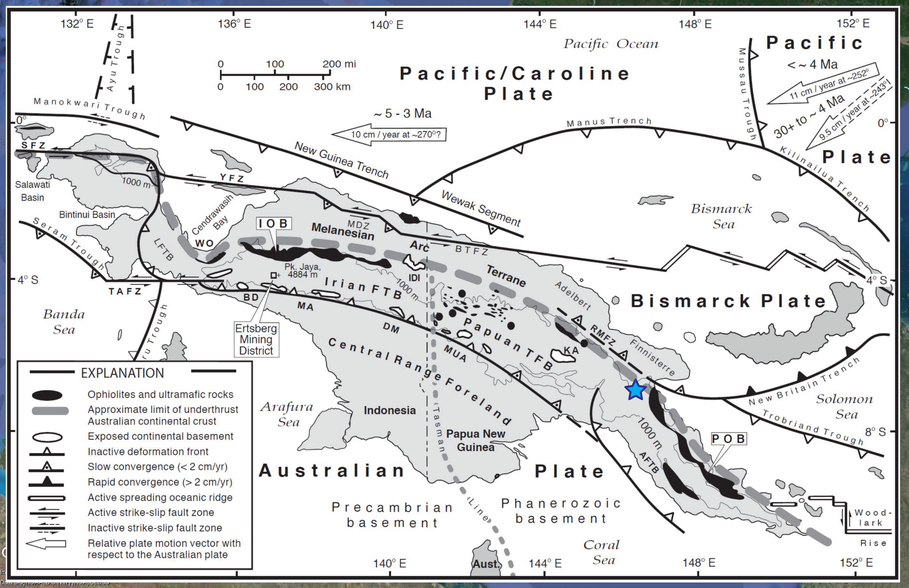
Australia plate

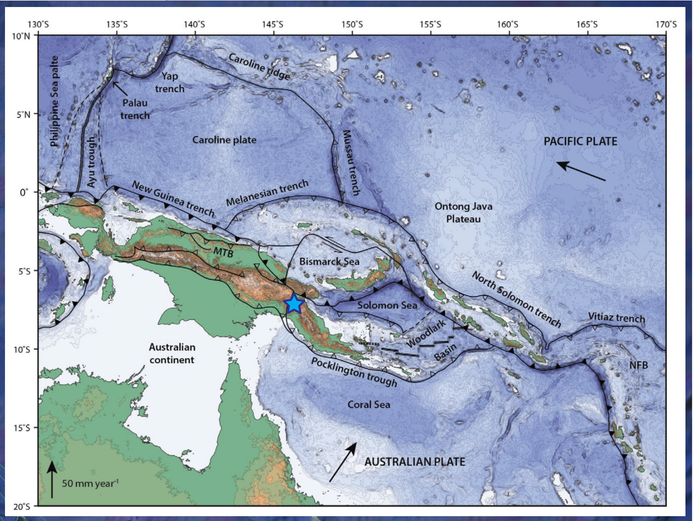
1989.12.07
M 7.1

2019.05.06
M 7.2

2011.12.14
M 7.1

Cloos et al., 2005





Holm et al., 2016

2019.05.06
M 5.5

Holm et al., 2015

