Earthquake Report: 2018.09.28
M 7.5 Indonesia (& USGS Seismicity 1918-2018 M ≥ 6.0)

CCOP — Coordinating Committee for Geoscience Programmes in East and Southeast Asia

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

CIRES

Jason R. Patton
earthjay.com © 2018

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 Eurasian plate (stationary)

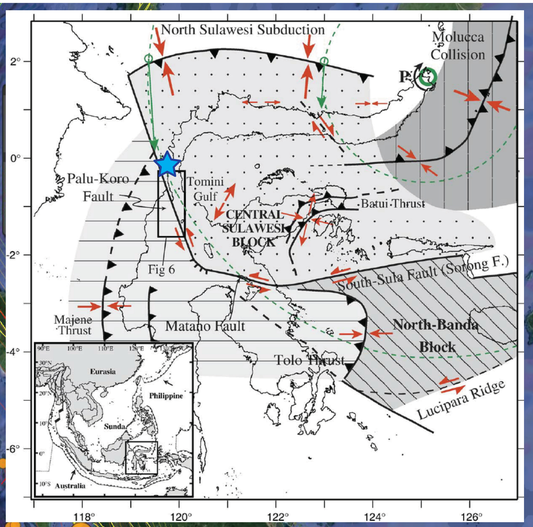
Magnitude
8 7 6 5 4 3 2 1

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

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)



Bellier et al., 2006

Watkinson & Hall, 2017

Eurasia plate

Philippine Sea plate

Australia plate

1998.05.21
M 6.7

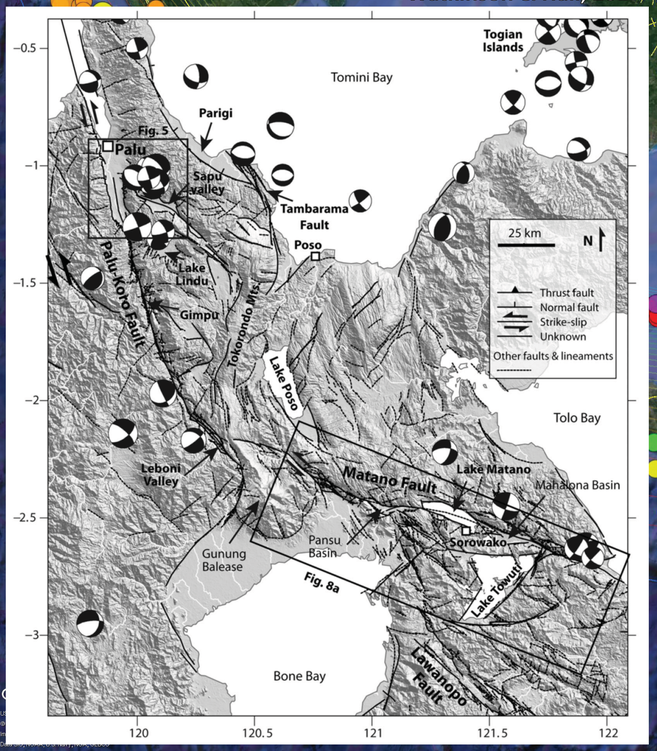
2018.09.28
M 7.5

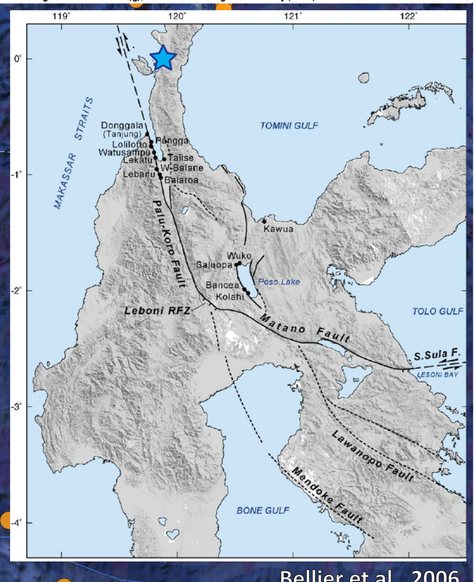
2018.09.28
M 6.1

2005.01.23
M 6.3

2012.08.18
M 6.3

600 km N





Bellier et al., 2006

Hall, 2011

