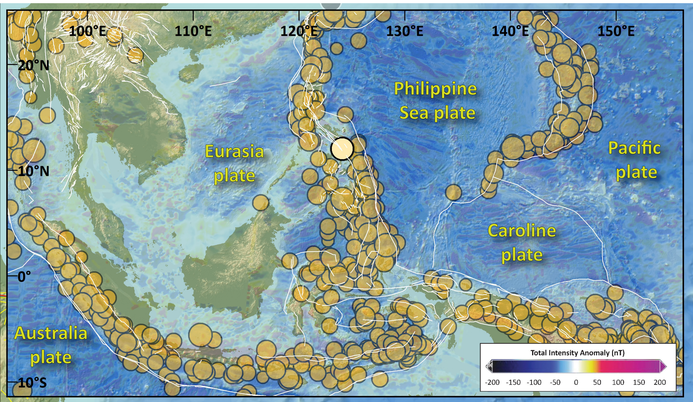
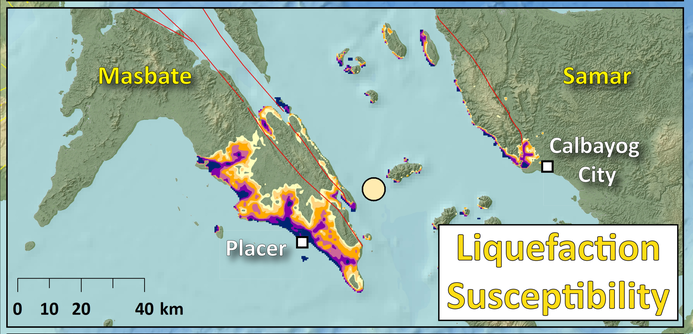
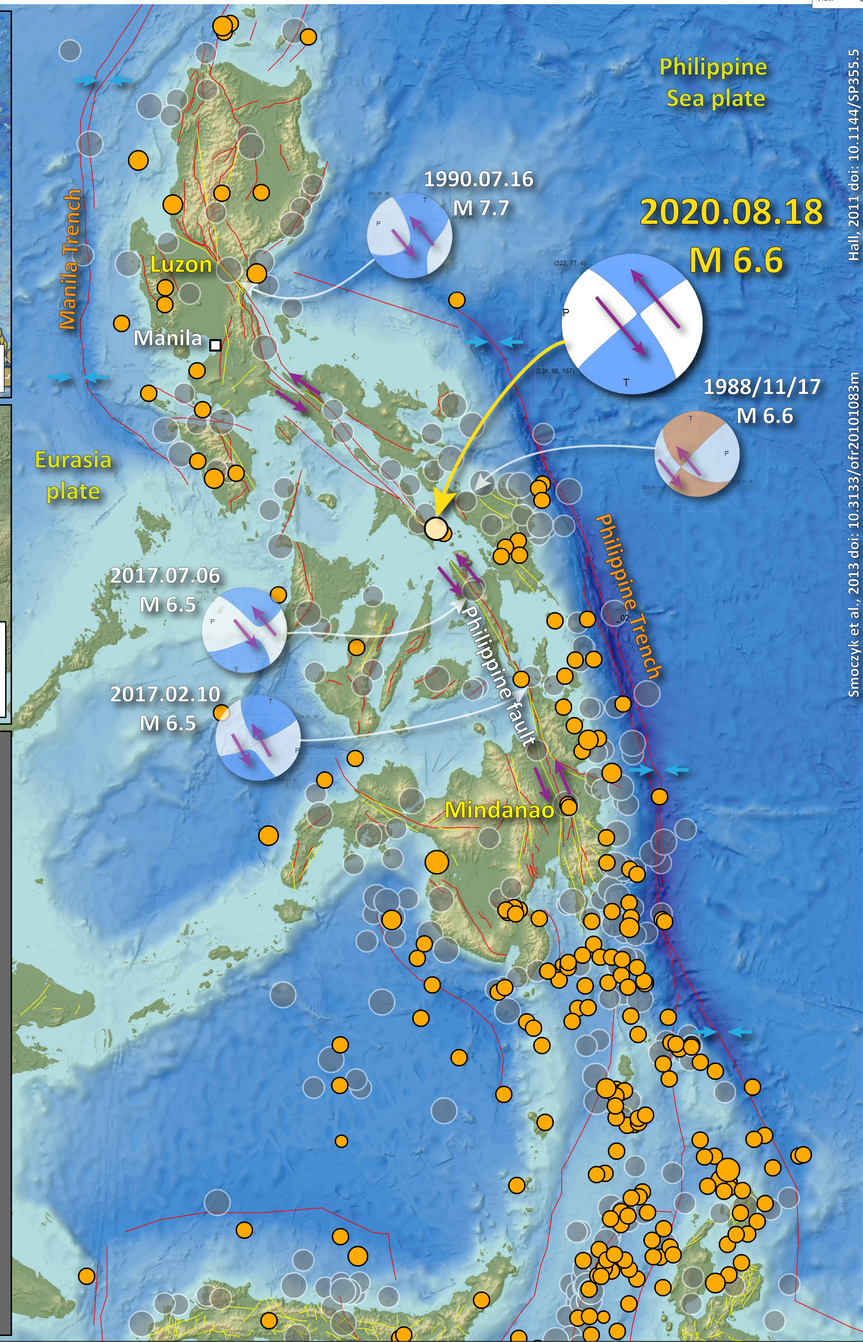
Earthquake Report: 2020.08.18

M 6.6 Philippines (& USGS Seismicity 1920-2020 M ≥ 6.5)

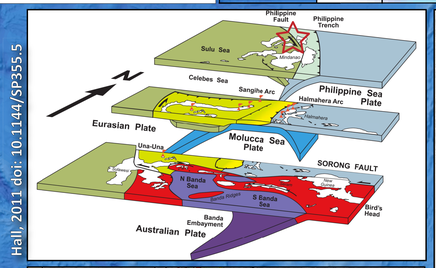




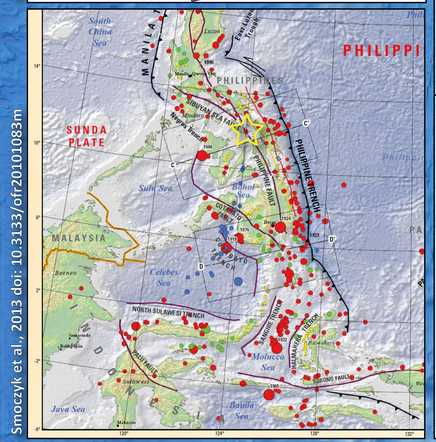


Normal Fault	Thrust Fault	Strike-Slip Fault
Top View / Side View	Top View / Side View	Top View / Side View

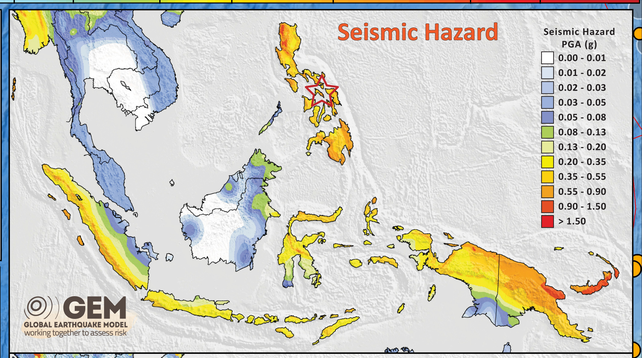
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV(cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10+

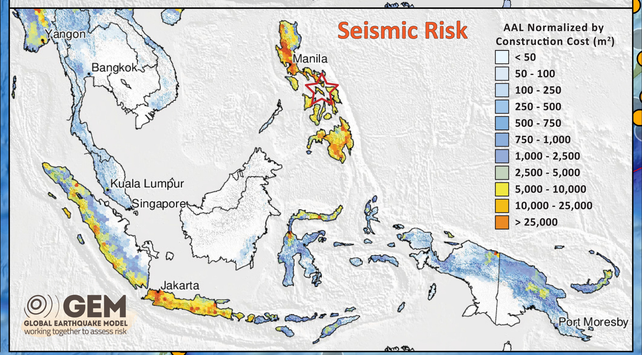


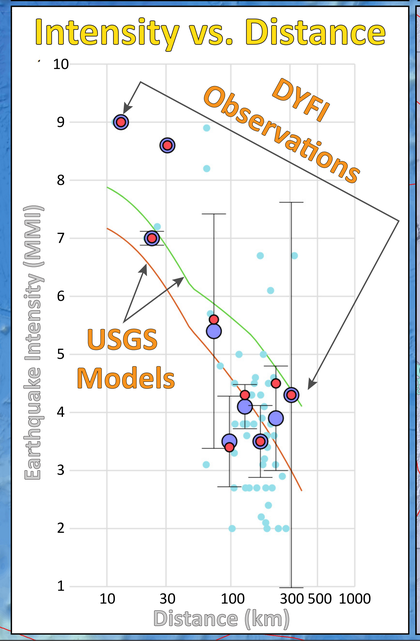
Hall, 2011 doi: 10.1144/SP355.5

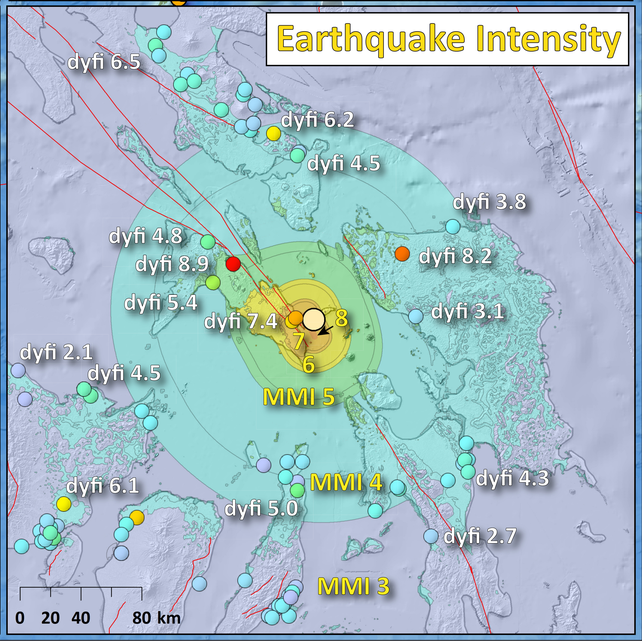


Smoczyk et al., 2013 doi: 10.3133/ofr20101083m









18 Aug. M 6.6

Seismicity (USGS - 3 month)

Magnitude

- 2.7 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0

Seismicity (USGS - 1 century)

Magnitude

- 6.5 - 7.0
- 7.1 - 8.0
- 8.1 - 9.1

Fault

- Crustal (CCOP)
- (GEM)

Intensity (USGS - MMI)

- I (Not Felt)
- II - III (Weak)
- IV (Light)
- V (Moderate)
- VI (Strong)
- VII (Very Strong)
- VIII (Severe)
- IX (Violent)
- X+ (Extreme)

Liquefaction Susceptibility

Zhu et al. (2017)

- 0% - 0.5%
- 0.6% - 1%
- 1.1% - 2%
- 2.1% - 5%
- 5.1% - 10%
- 10.1% - 20%
- 20.1% - 50%

Topography:
GMRT Ryan et al., 2009
DOI: 10.1029/2008GC002332
ALOS AW3D30 Tadono et al., 2014
© JAXA doi:10.5194/isprsannals-II-4-71-2014

0 75 150 300 Miles

0 125 250 500 Kilometers

Jason R. Patton
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