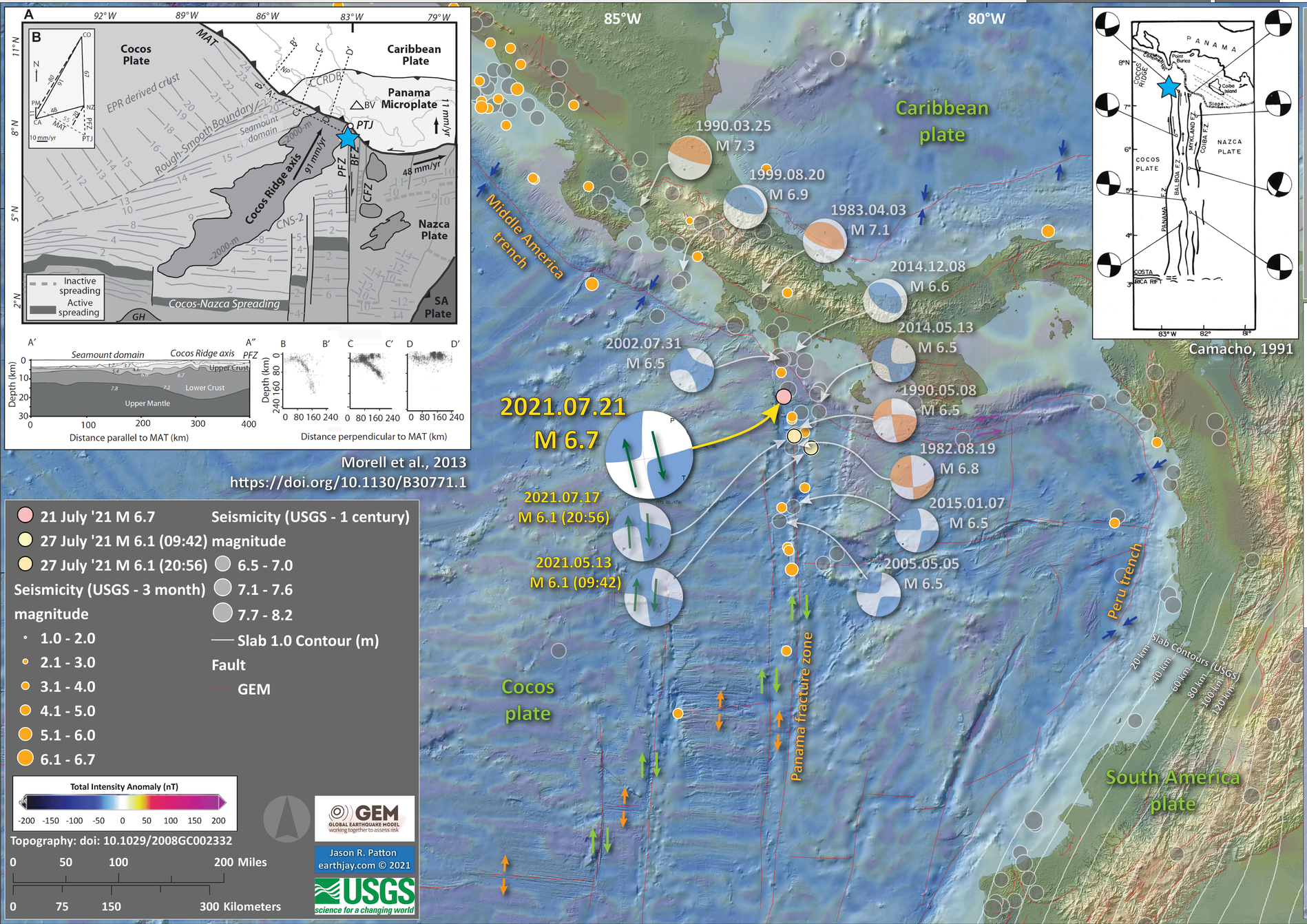
Earthquake Report: 2021.07.21

M 6.7 Panama fracture zone (& USGS Seismicity 1921-2021 M ≥ 6.5)

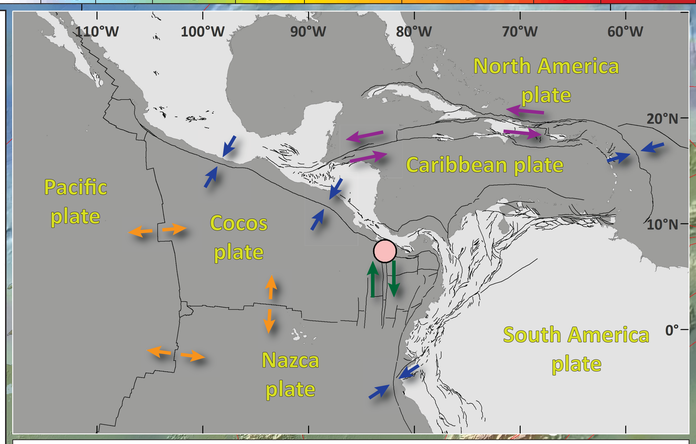
Mechanism Types: Normal Fault | Thrust Fault | Strike-Slip Fault

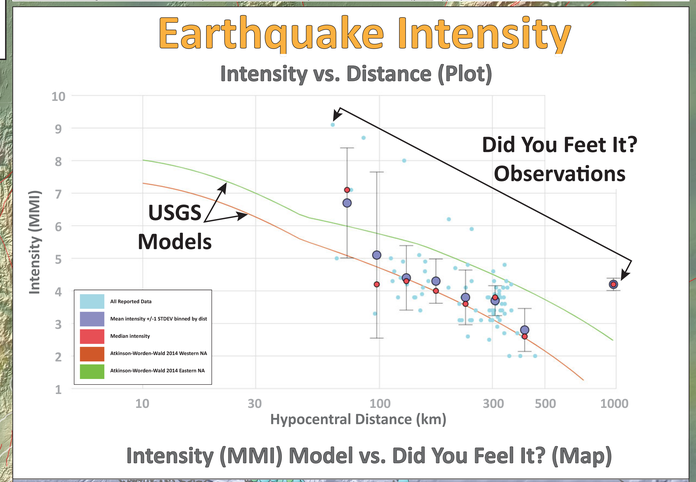
SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV (cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10

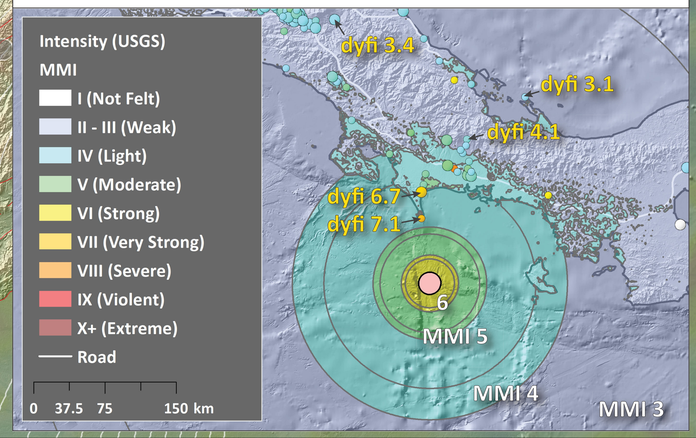
Morell et al., 2013
https://doi.org/10.1130/B30771.1



Camacho, 1991







21 July '21 M 6.7
27 July '21 M 6.1 (09:42)
27 July '21 M 6.1 (20:56)

Seismicity (USGS - 3 month) magnitude
1.0 - 2.0
2.1 - 3.0
3.1 - 4.0
4.1 - 5.0
5.1 - 6.0
6.1 - 6.7

Seismicity (USGS - 1 century) magnitude
6.5 - 7.0
7.1 - 7.6
7.7 - 8.2

Slab 1.0 Contour (m)

Fault
GEM

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

Topography: doi: 10.1029/2008GC002332

0 50 100 200 Miles
0 75 150 300 Kilometers

GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

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