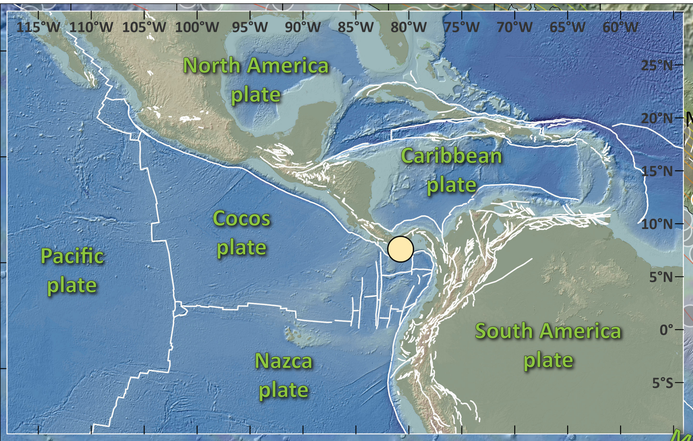
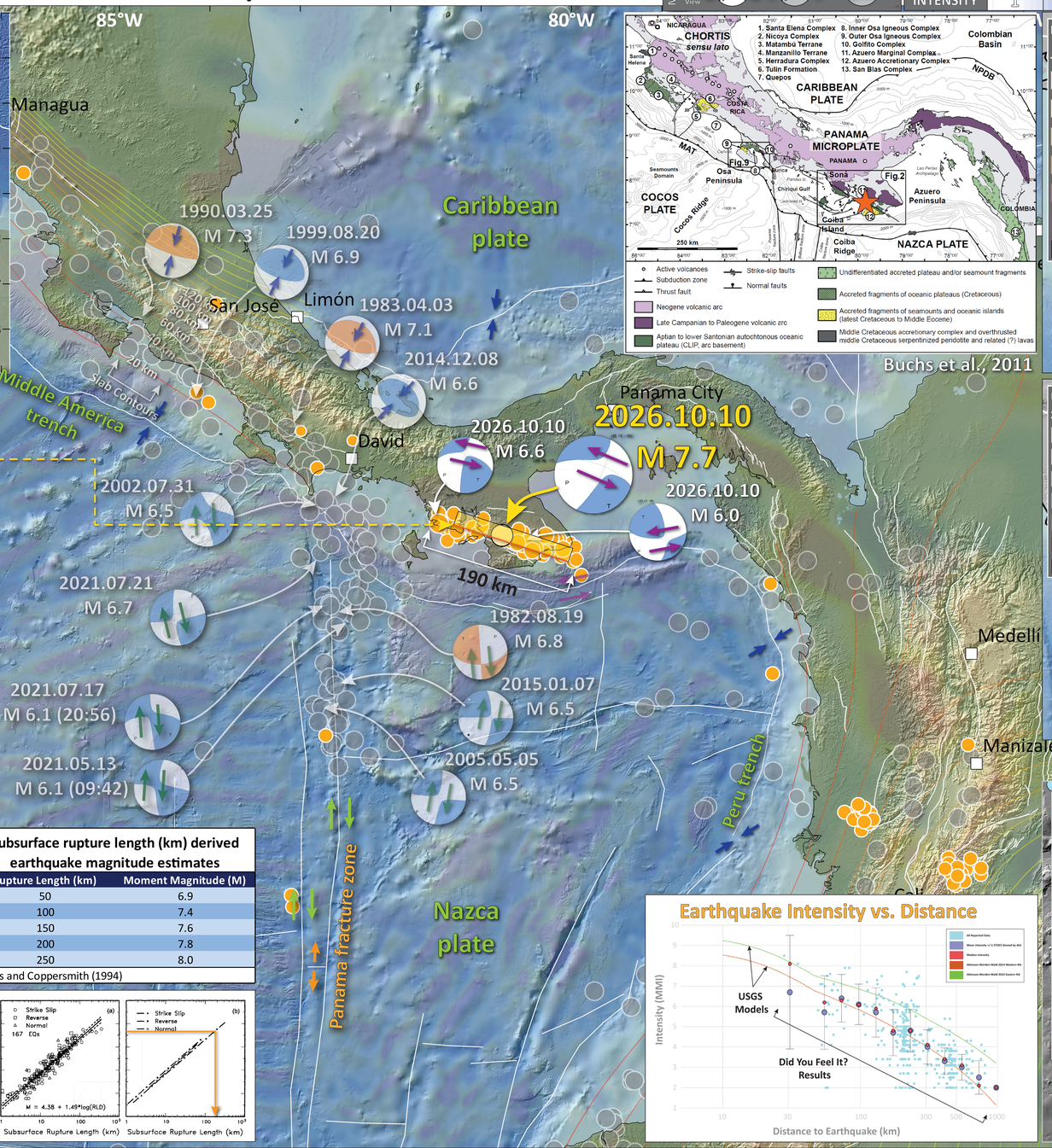
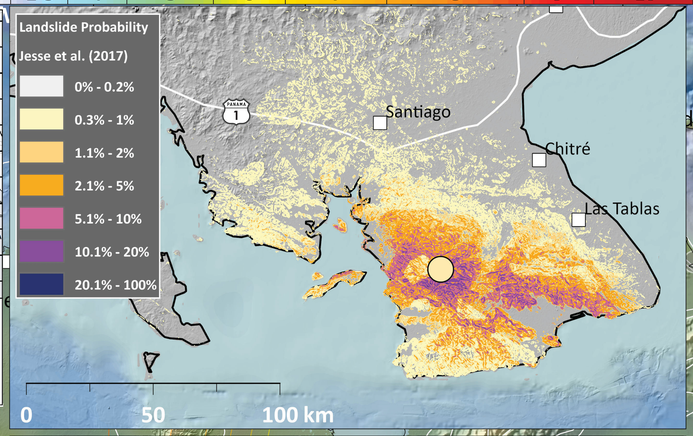
Earthquake Report: 2026.10.10

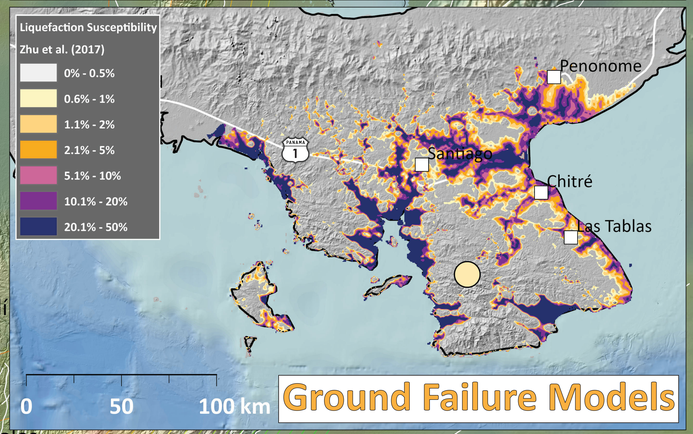
M 7.7 Panama (& USGS Seismicity 1926-2026 M ≥ 6.0)



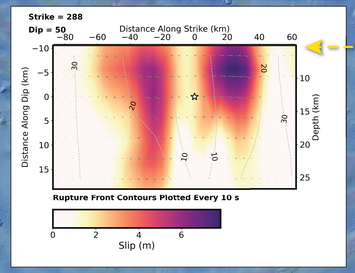


Buchs et al., 2011





Earthquake Slip



10 Oct '26 M 7.7

Seismicity (USGS - 1 month)
magnitude
0.0 - 1.0
1.1 - 1.9
2.0 - 3.0
3.1 - 4.0
4.1 - 5.0
5.1 - 6.0
6.1 - 7.0
7.1 - 7.7

Seismicity (USGS - 1 century)
magnitude
6.0 - 6.5
6.6 - 7.0
7.1 - 7.5
7.6 - 8.0
8.1 - 8.5
8.6 - 9.5

Fault
GEM
Shoreline (Natural Earth)
Populated Place

Depth: Shallow / Deep
Elevation: High / Low

Made with Natural Earth
Free vector and raster map data @ naturalearthdata.com

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

Topography: doi: 10.1029/2008GC002332

0 50 100 200 Miles
0 75 150 300 Kilometers

GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

Jason R. Patton
earthjay.com © 2026

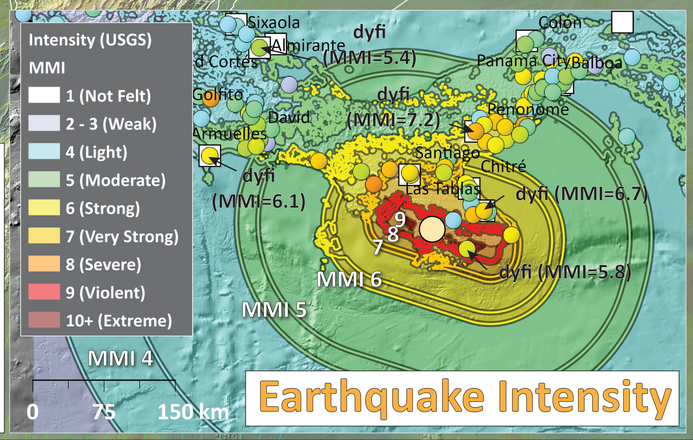
USGS science for a changing world

Subsurface rupture length (km) derived earthquake magnitude estimates

Rupture Length (km)	Moment Magnitude (M)
50	6.9
100	7.4
150	7.6
200	7.8
250	8.0

Wells and Coppersmith (1994)

Earthquake Intensity vs. Distance



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

Mechanism Types: Normal Fault, Thrust Fault, Strike-Slip Fault (Top View, Side View, Side View)