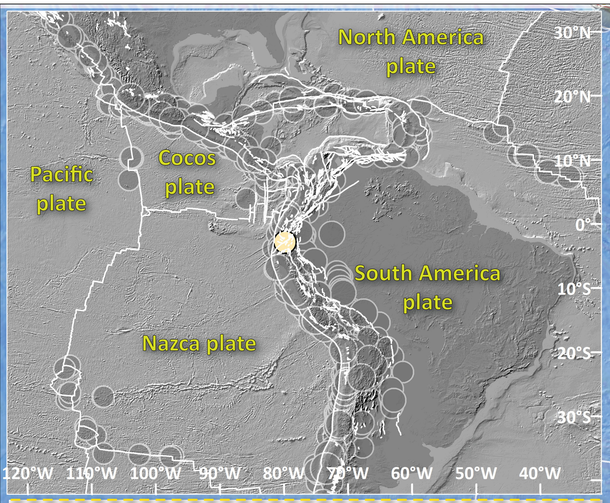
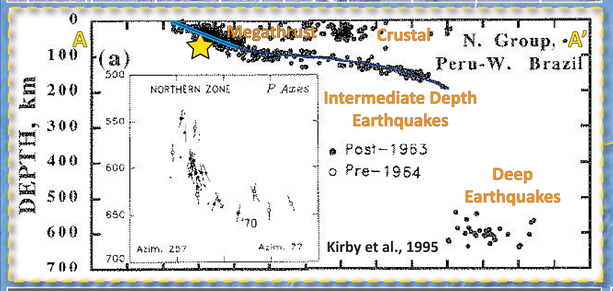
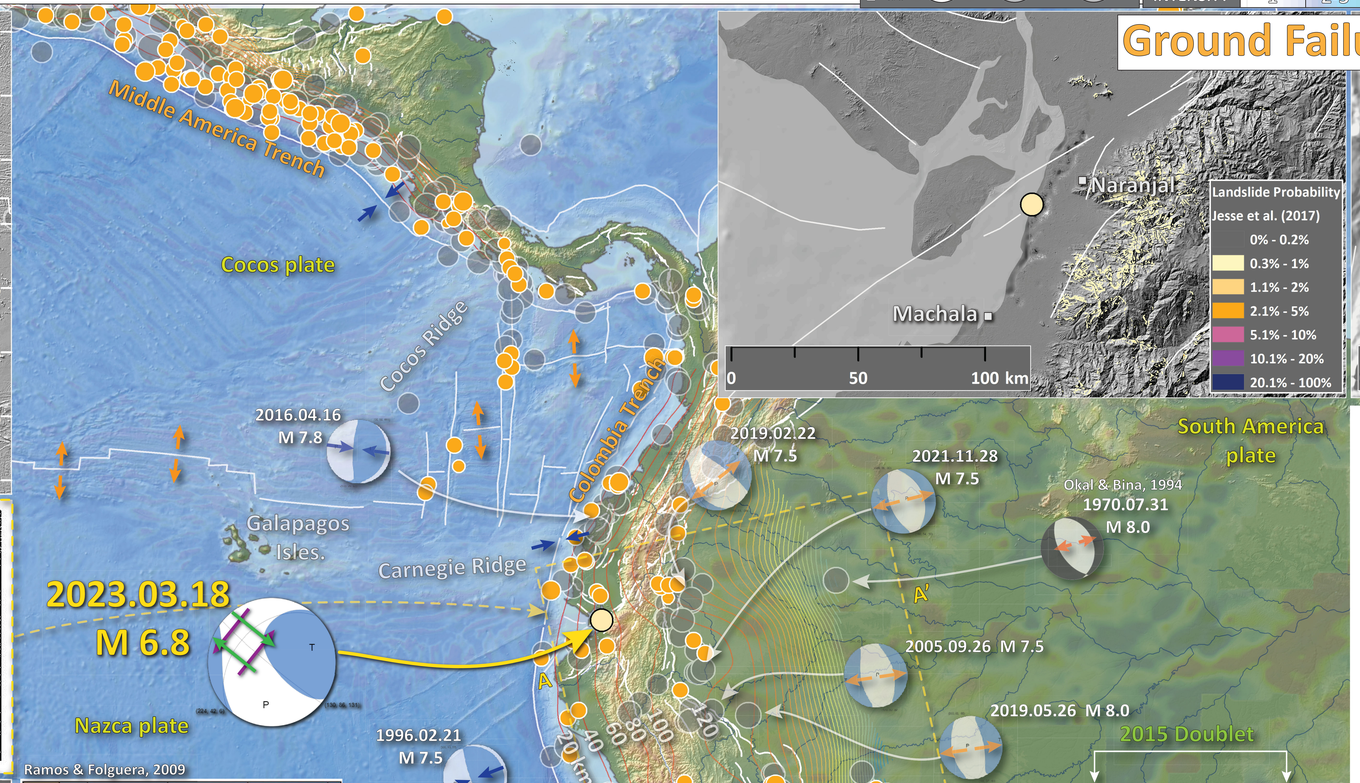
Earthquake Report: 2023.03.18
M 6.8 (& USGS Seismicity 1923-2023 M ≥ 6.5)

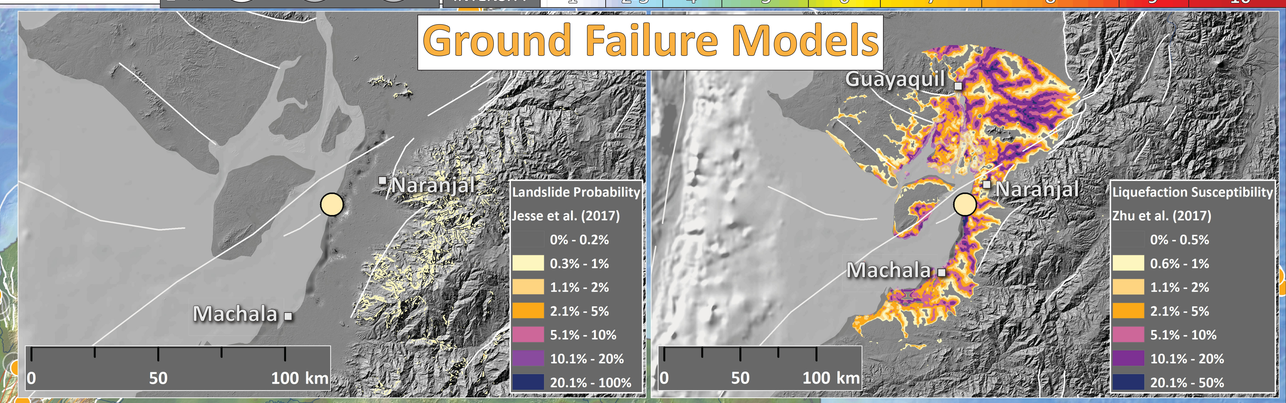
Mechanism Types: Normal Fault, Thrust Fault, Strike-Slip Fault (Top View / Side View)

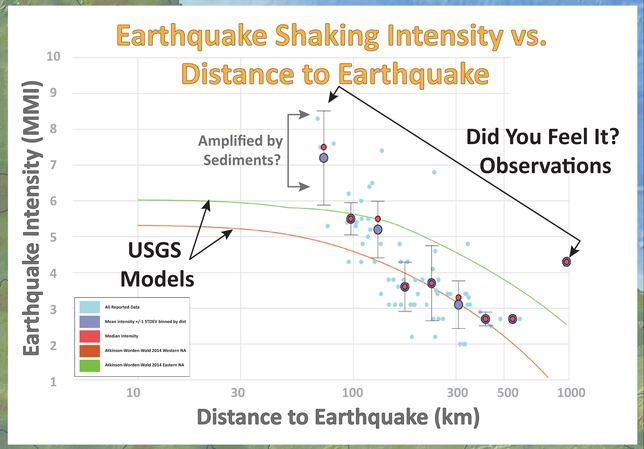
SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV (cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10

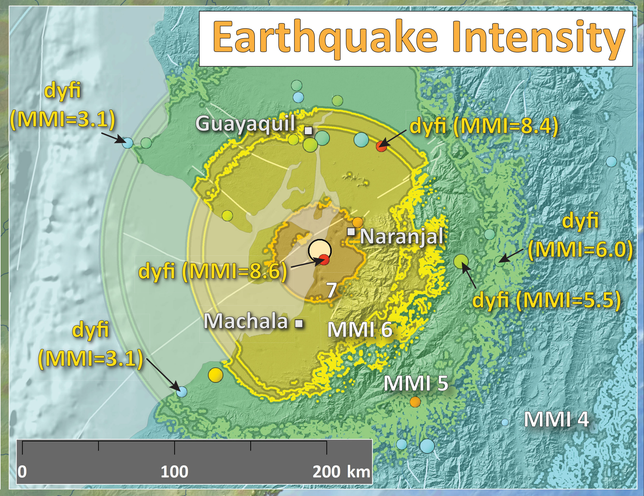












18 Mar ' 23 M 6.8

Seismicity (USGS - 3 month) magnitude
- 0.0 - 1.0
- 1.1 - 2.0
- 2.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 6.8

Seismicity (USGS - 1 century) magnitude
- 6.5 - 7.0
- 7.1 - 7.5
- 7.6 - 8.0
- 8.1 - 8.5
- 8.6 - 9.0
- 9.1 - 9.5

River (NE)

Fault
GEM

Depth: Shallow / Deep
Elevation: High / Low

Topography:
Global: Ryan et a., 2009: doi:10.1029/2008GC002332

Total Intensity Anomaly (nT)

Depth to Slab (km)

0 150 300 600 Miles

0 250 500 1,000 Kilometers

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GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

Jason R. Patton
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USGS science for a changing world



Intensity (USGS) MMI
- 1 (Not Felt)
- 2-3 (Weak)
- 4 (Light)
- 5 (Moderate)
- 6 (Strong)
- 7 (Very Strong)
- 8 (Severe)
- 9 (Violent)
- 10+ (Extreme)