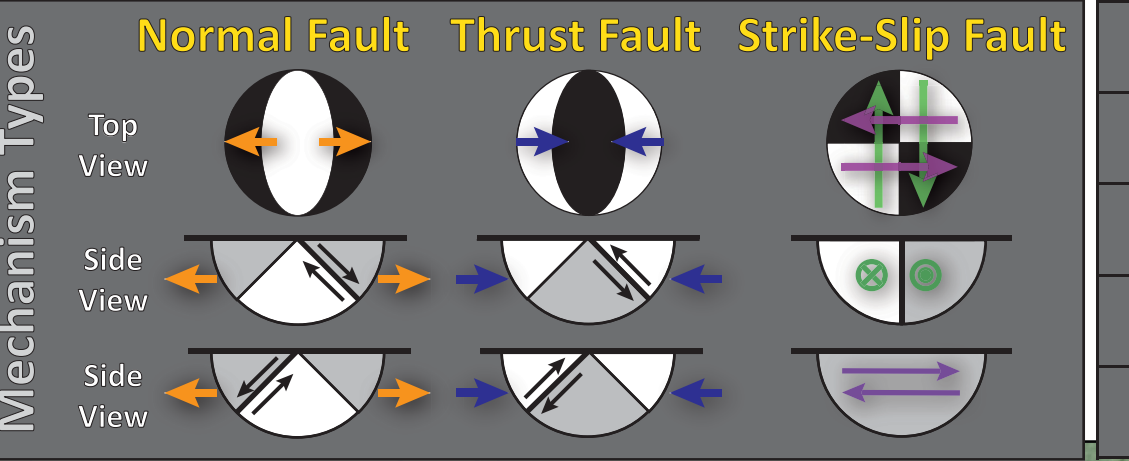
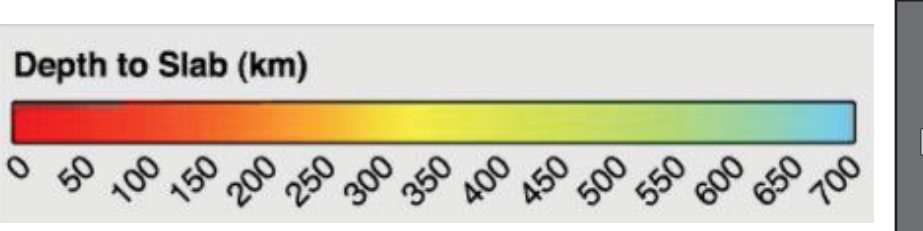
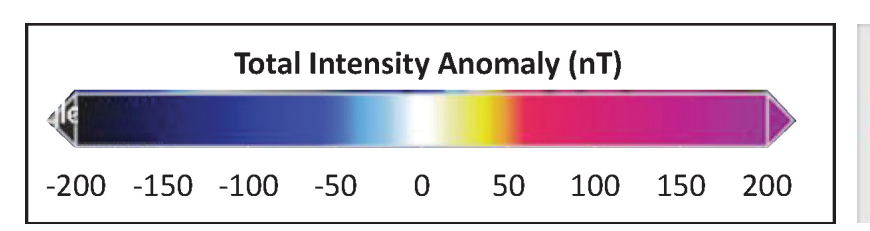
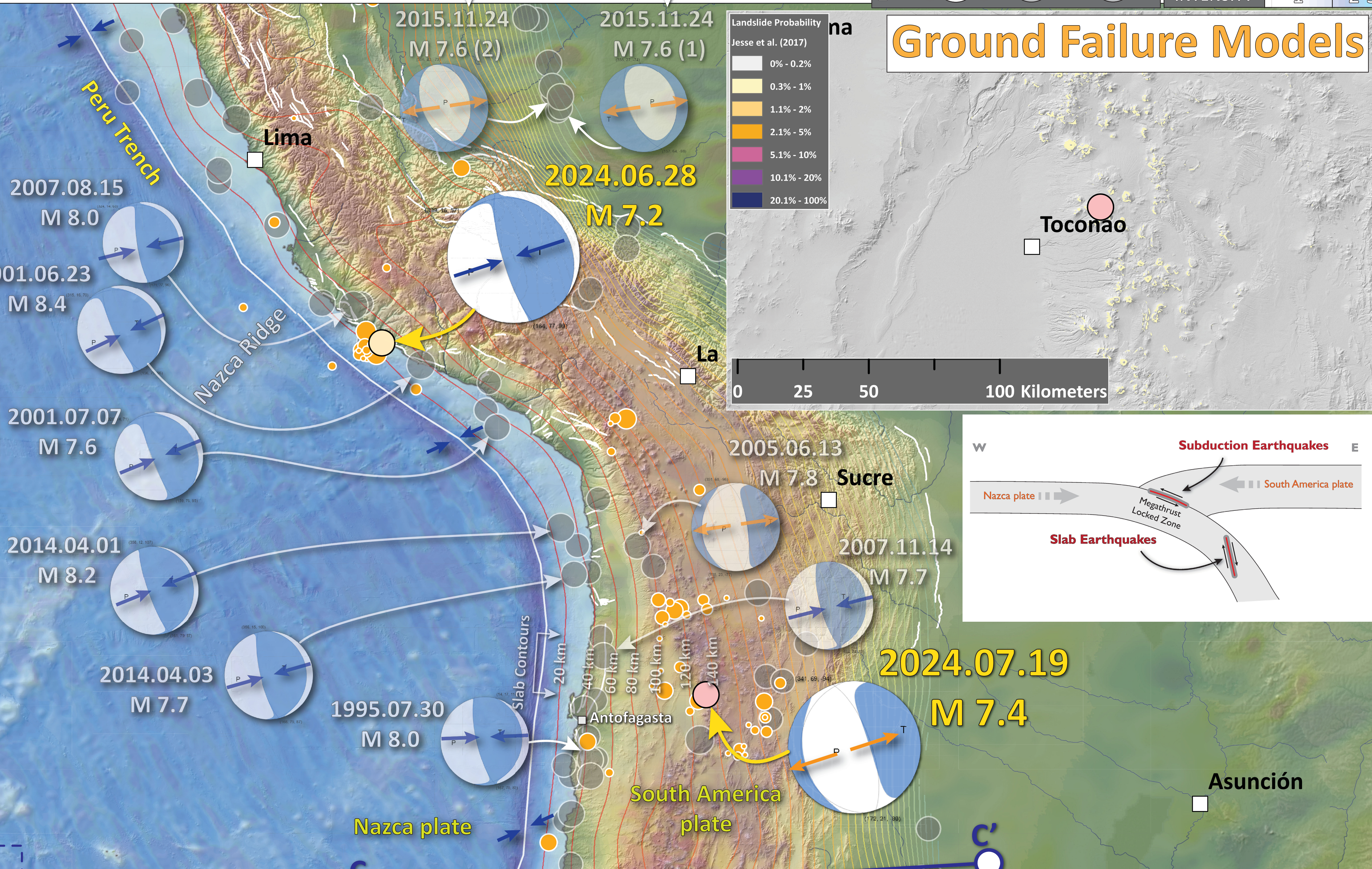
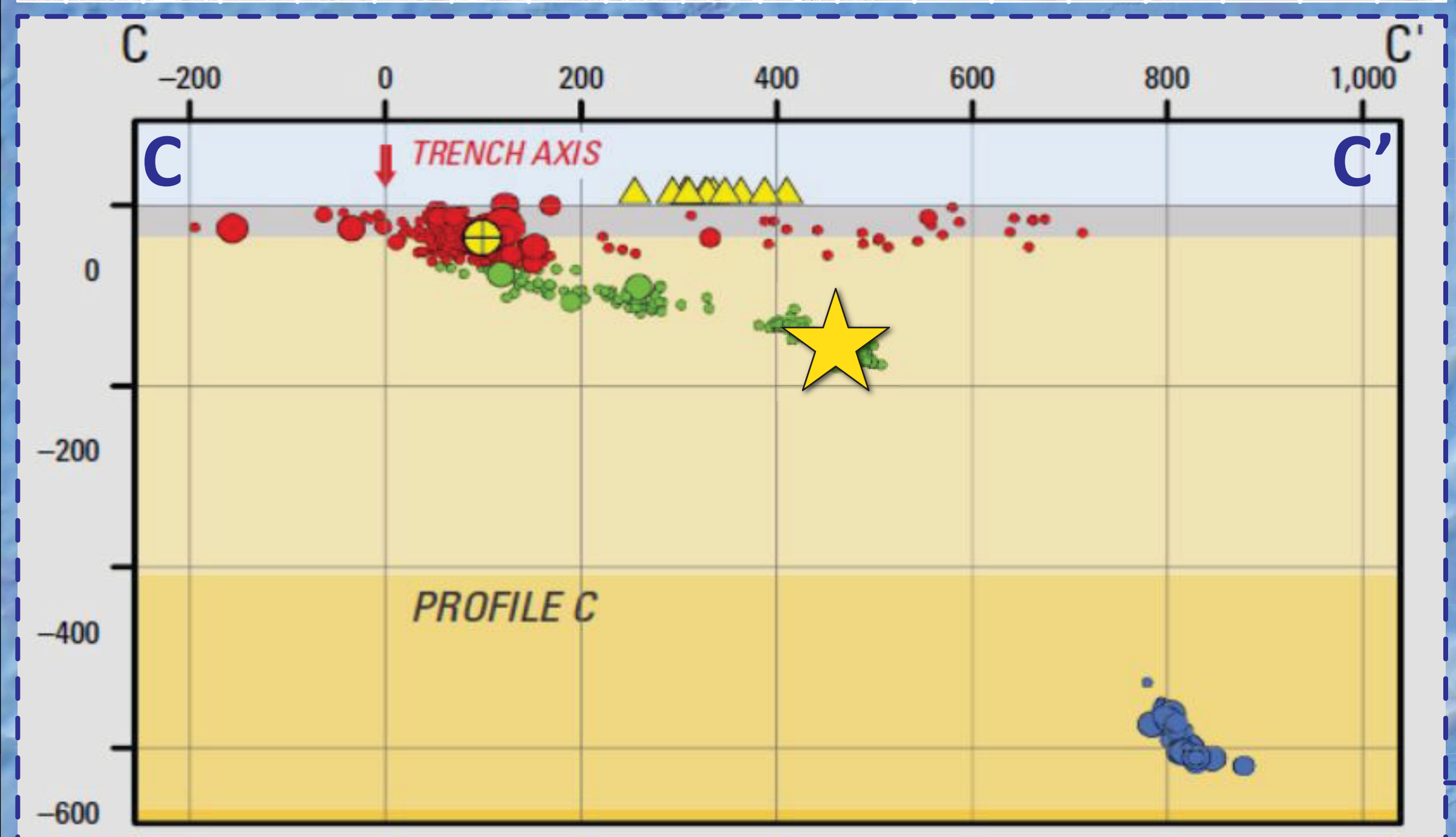
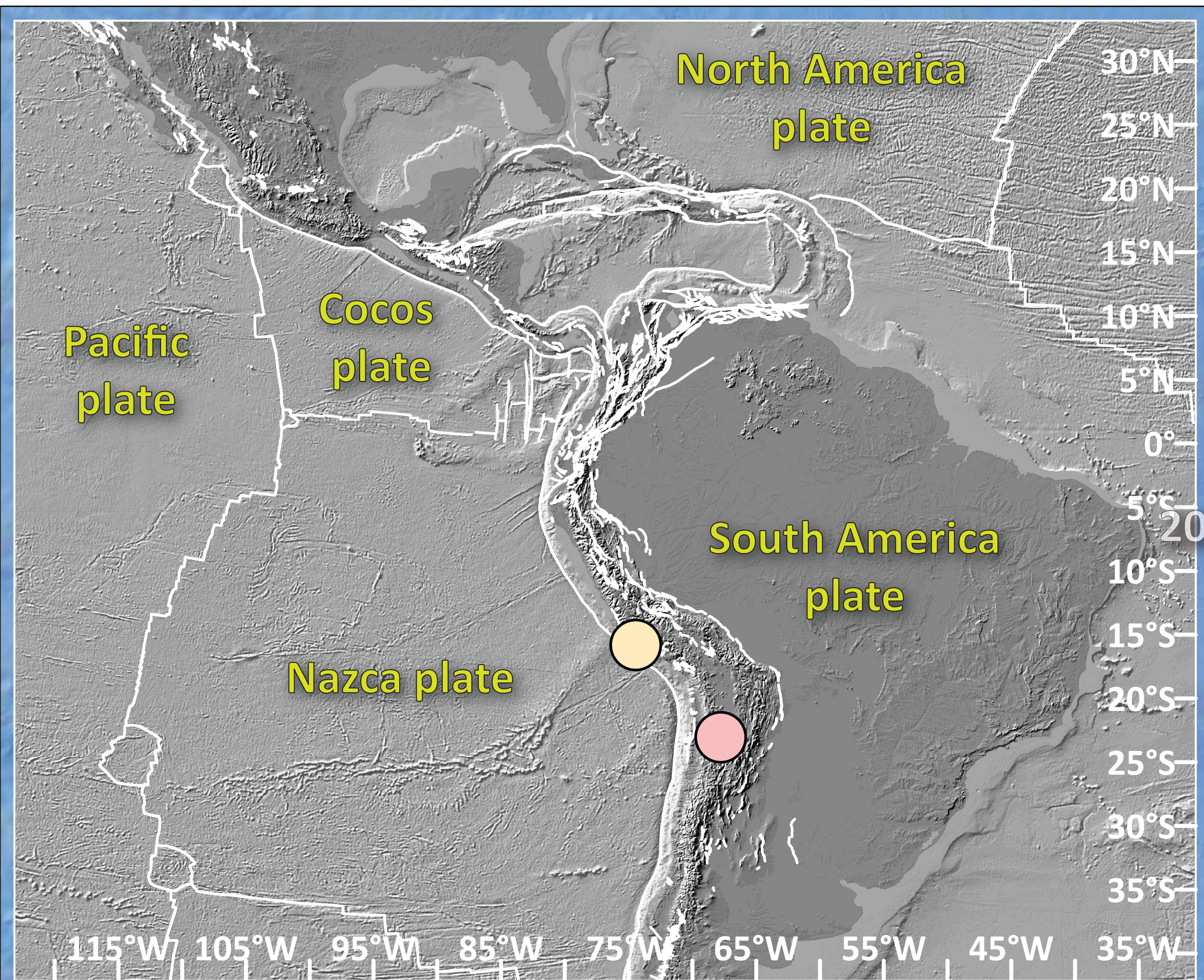


# Earthquake Report: 2024.07.19

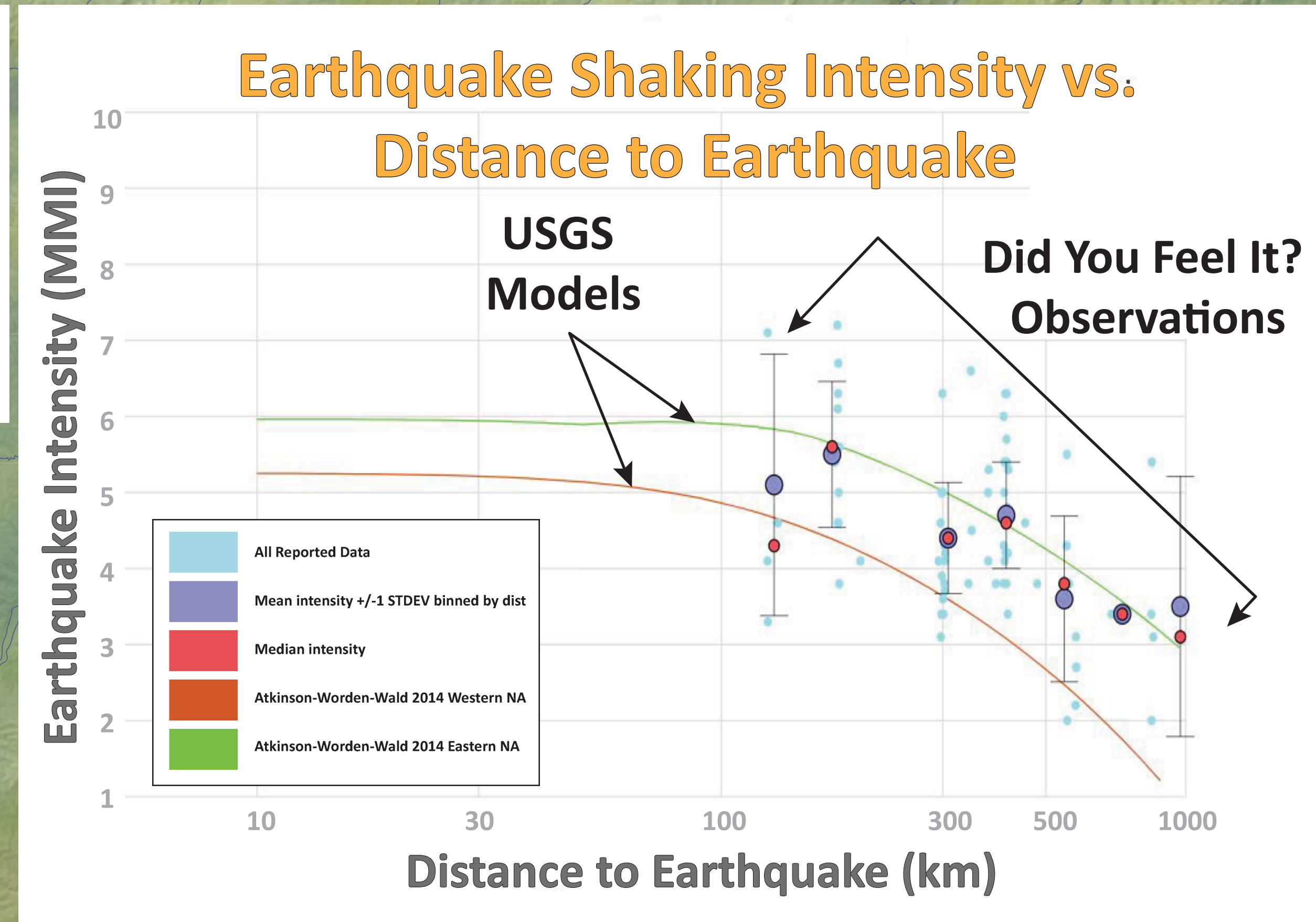
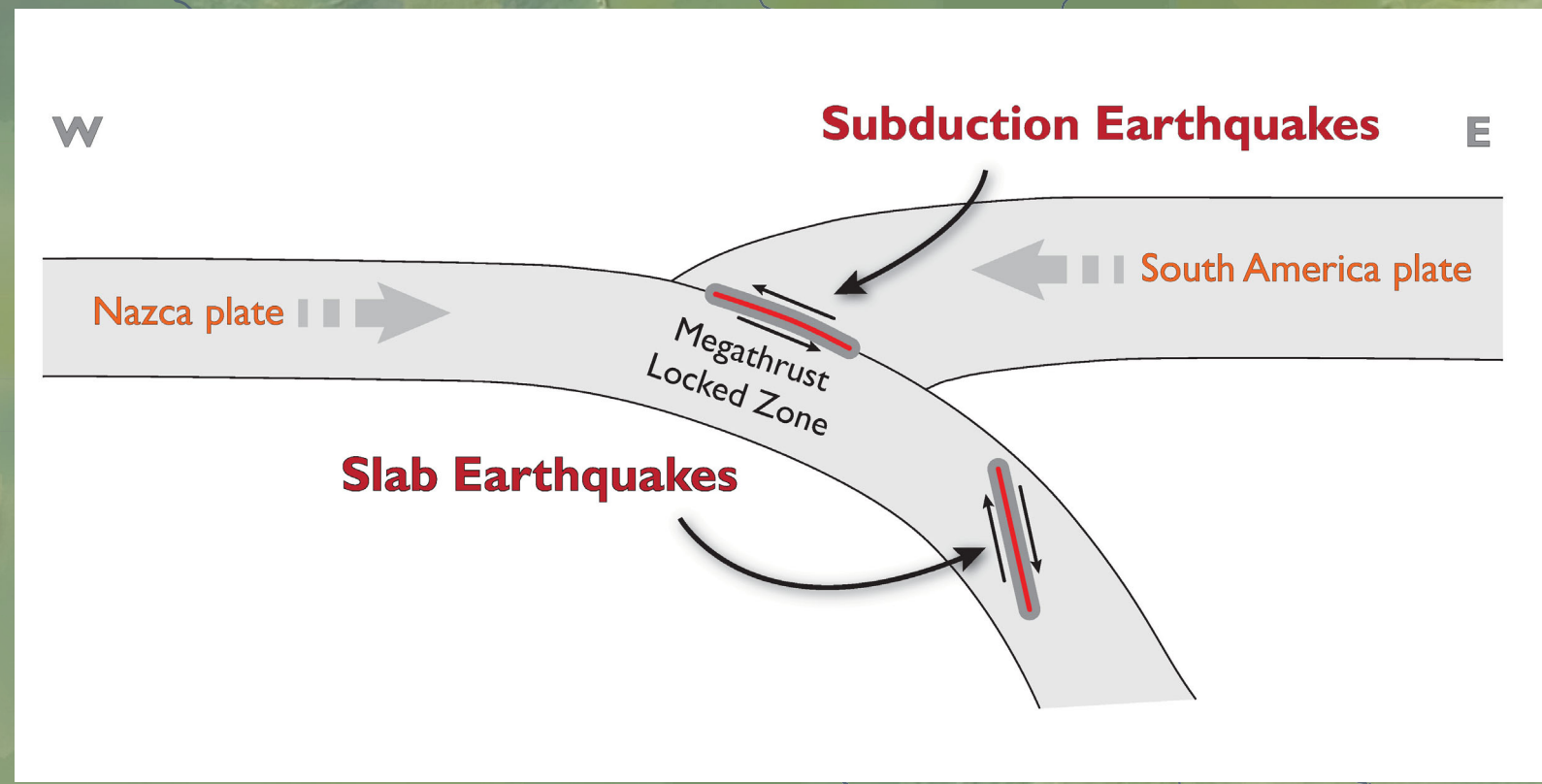
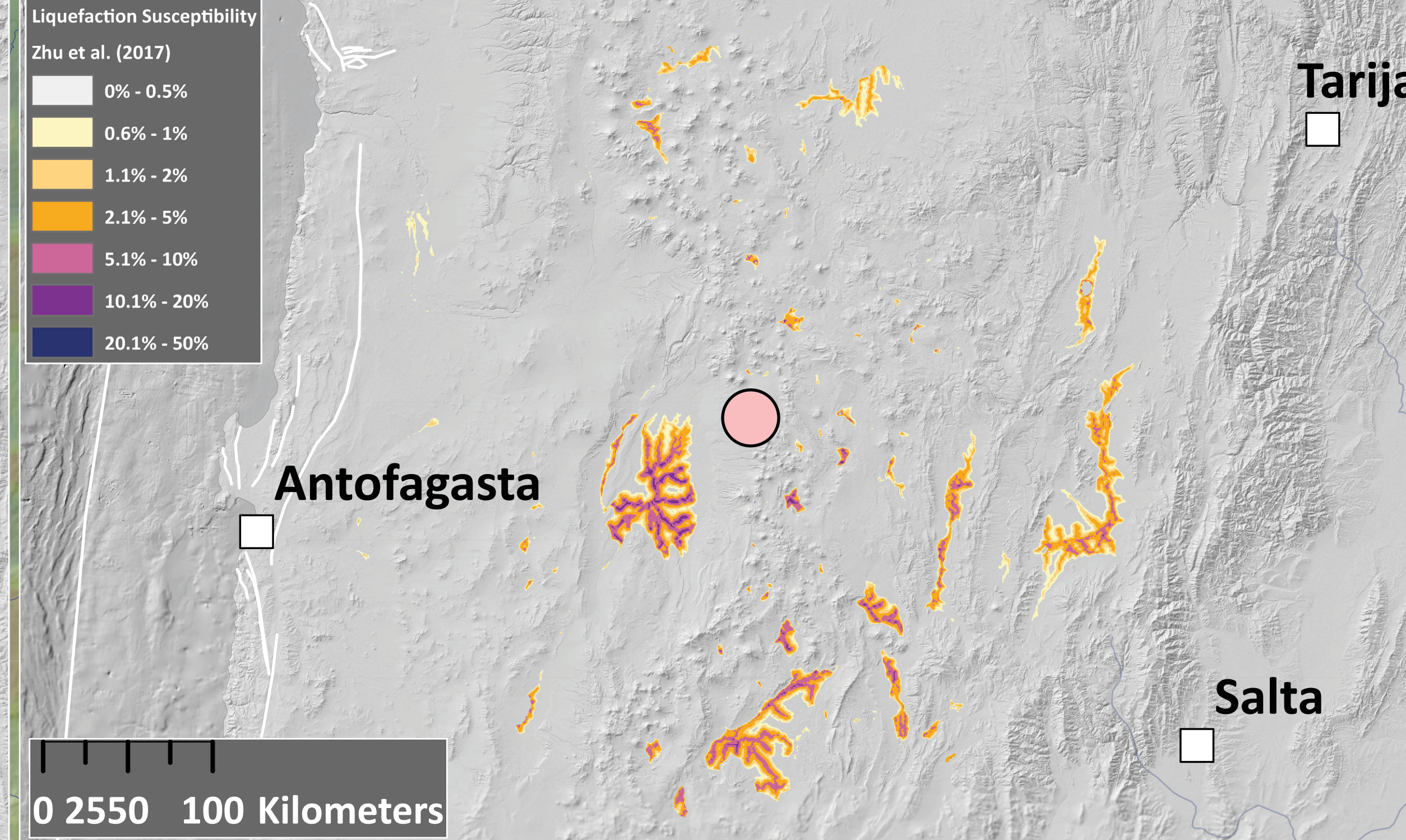
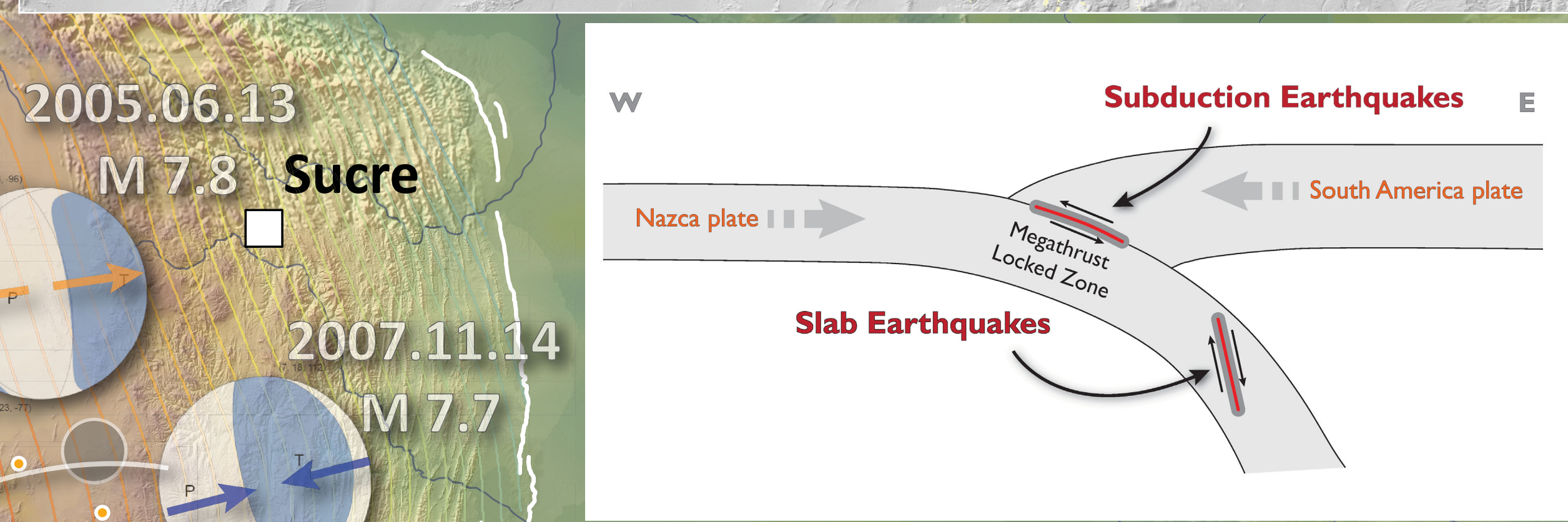
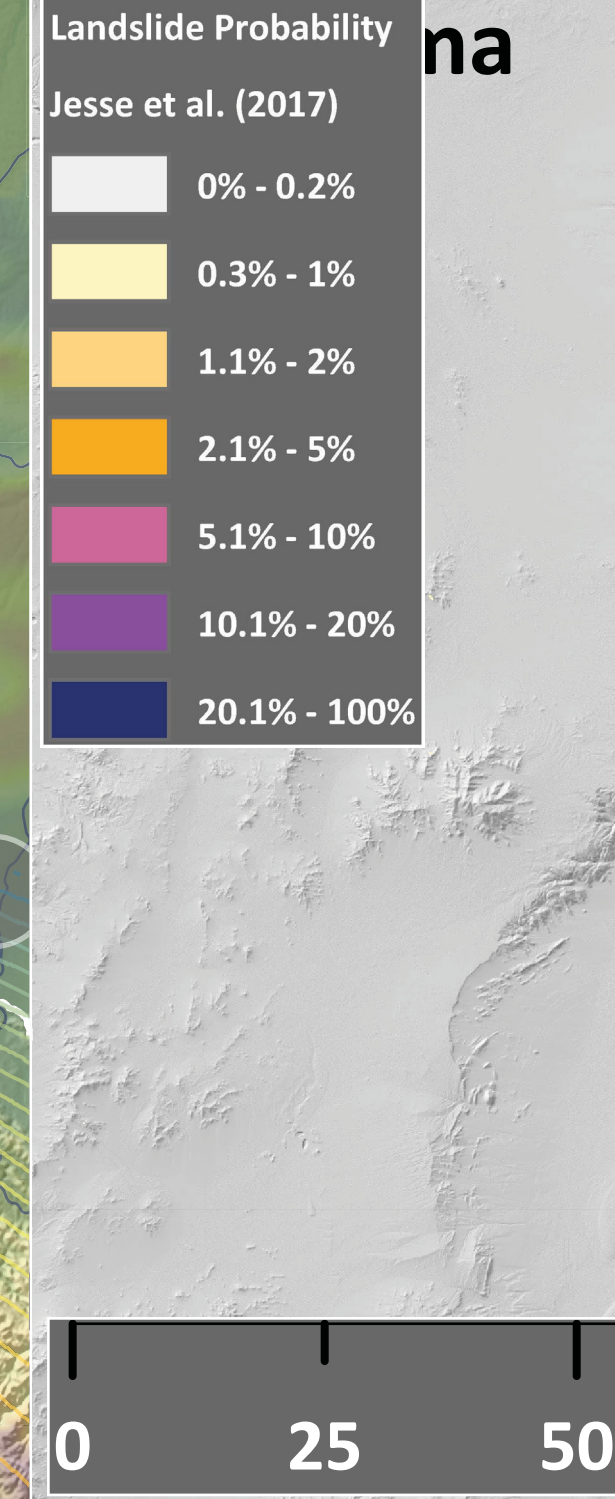
## M 7.4 Chile/Bolivia (& USGS Seismicity 1924-2024 M ≥ 7.0)



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



### Ground Failure Models



● 19 July '24 M 7.3  
● 28 Jun '24 M 7.2

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

**Seismicity (USGS - 1 month)**  
 magnitude  
 ● 4.2 - 4.3  
 ● 4.4 - 4.4  
 ● 4.5 - 4.6  
 ● 4.7 - 4.8  
 ● 4.9 - 5.3  
 ● 5.4 - 6.1  
 ● 6.2 - 7.2

**Depth**  
 Shallow (light blue) to Deep (dark blue)

**Elevation**  
 High (red) to Low (green)

**Fault**  
 — GEM  
 ■ City

Topography:  
 Global: Ryan et al., 2009 doi:10.1029/2008GC002332  
 30m: JAXA/NASA ALOS3

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