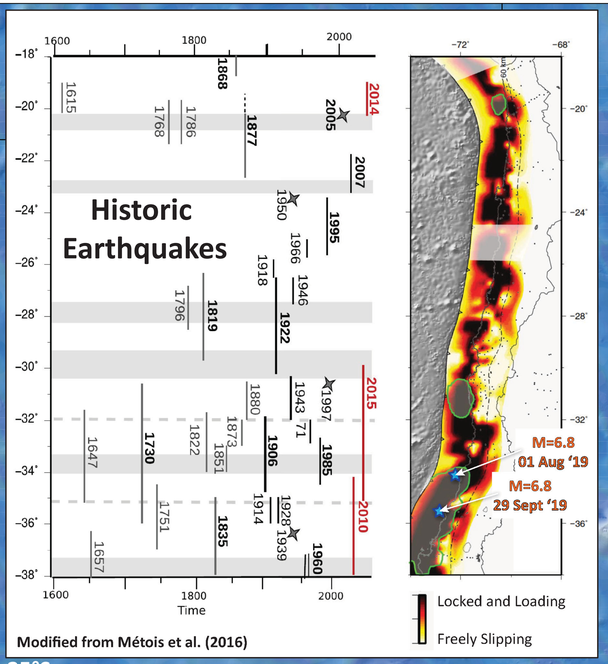
Earthquake Report: 2019.09.29
M 6.8 Chile (& Select USGS Seismicity 1919-2019)

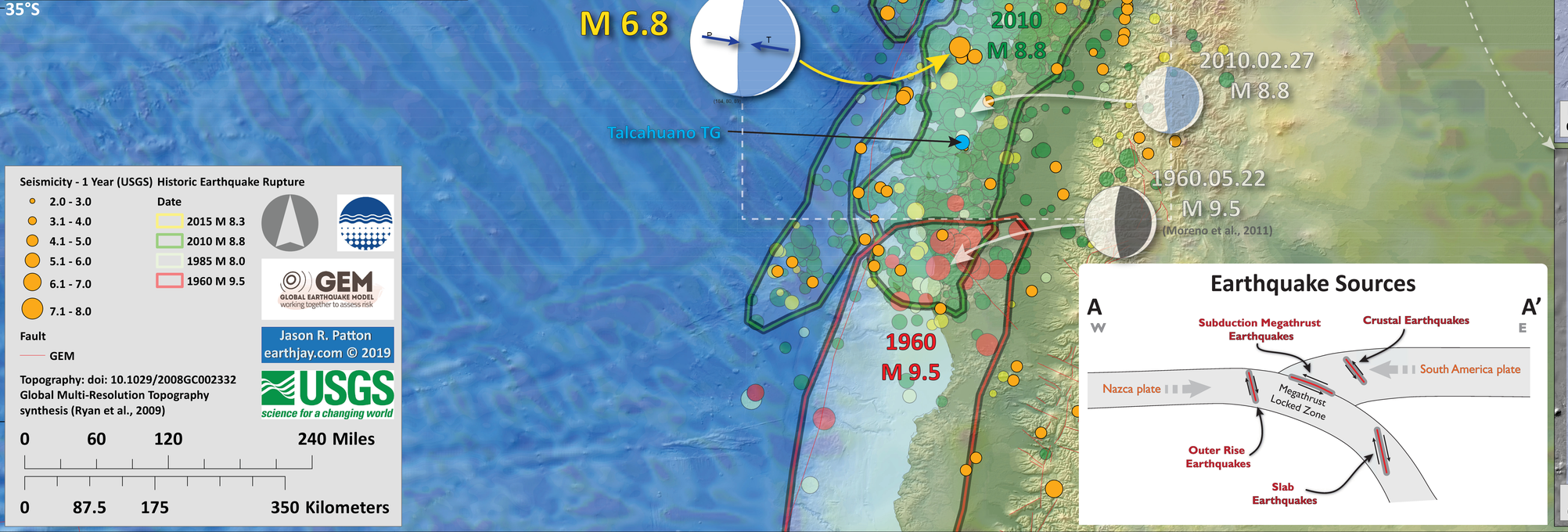
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very light	Light	Moderate	Moderate/heavy	Heavy	Very heavy
PGA(%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV(cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10+

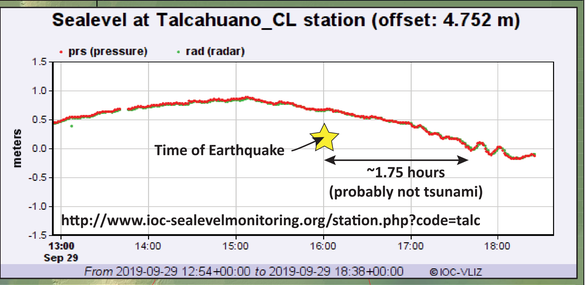
Total Intensity Anomaly (nT)

Normal Fault | Thrust Fault | Strike-Slip Fault

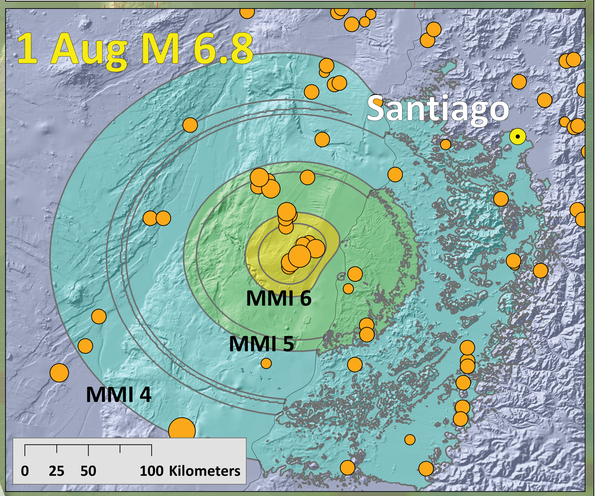


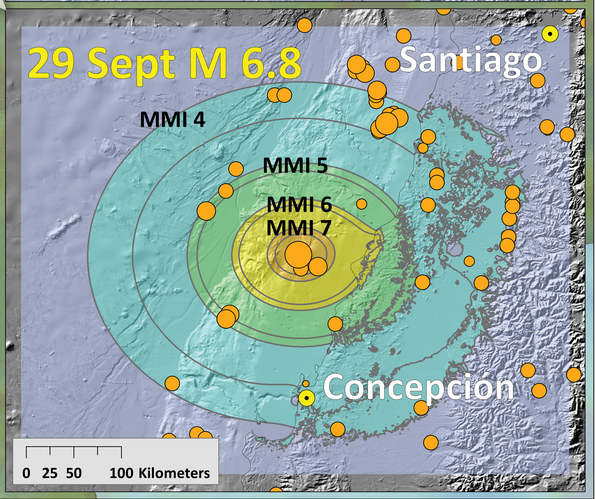
Modified from Métois et al. (2016)





Modified Mercalli Intensity (USGS)





Seismicity - 1 Year (USGS)
- 2.0 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0
- 7.1 - 8.0

Historic Earthquake Rupture
Date
- 2015 M 8.3
- 2010 M 8.8
- 1985 M 8.0
- 1960 M 9.5

Fault
- GEM

Topography: doi: 10.1029/2008GC002332
Global Multi-Resolution Topography synthesis (Ryan et al., 2009)

GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

Jason R. Patton
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USGS science for a changing world

0 60 120 240 Miles

0 87.5 175 350 Kilometers