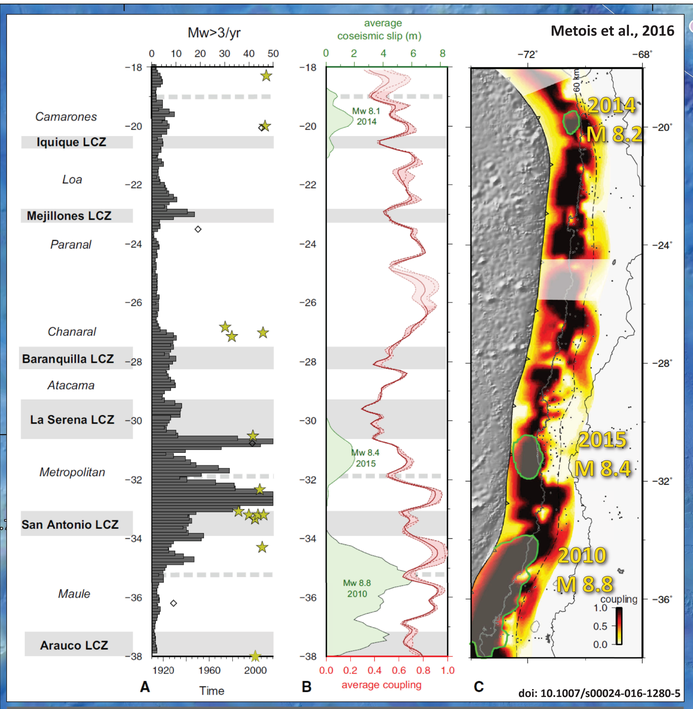
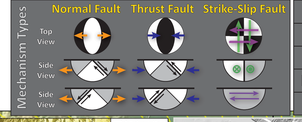
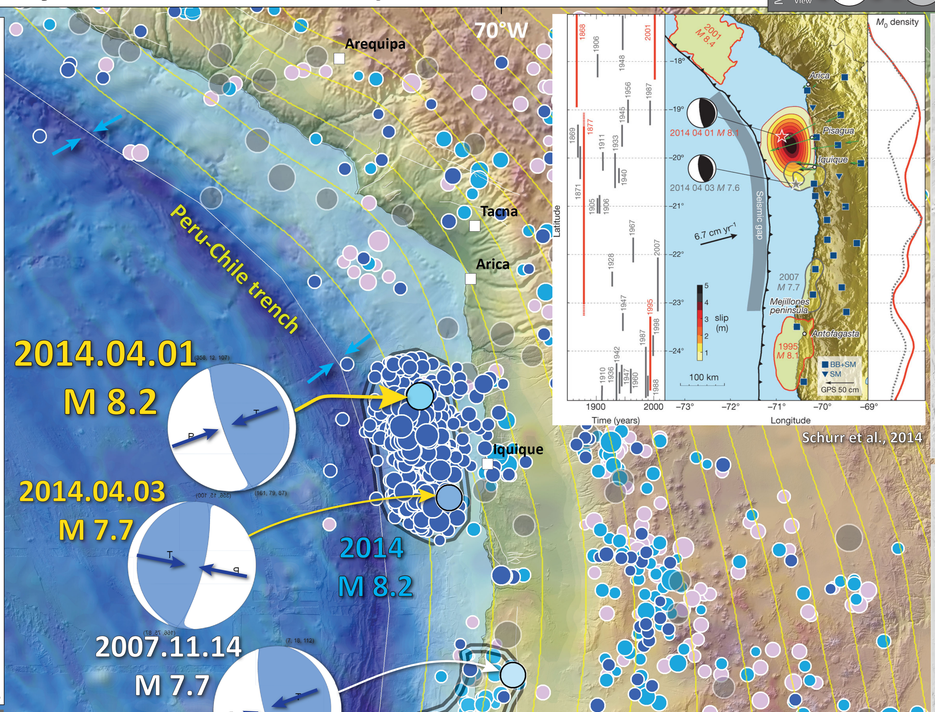
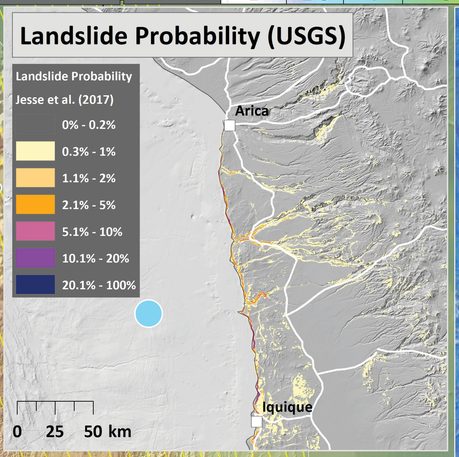
Earthquake Report: 2014.04.01
M 8.2 Iquique, Chile (& USGS Seismicity 1920-2020 M ≥ 6.5)

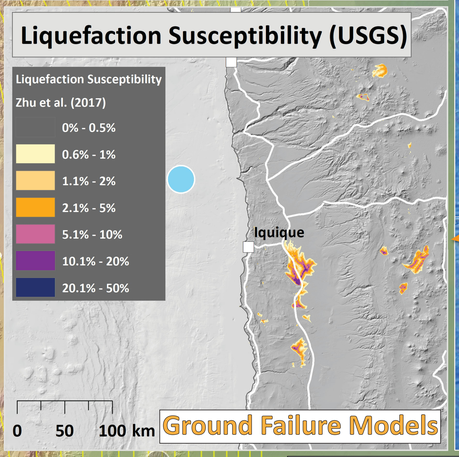


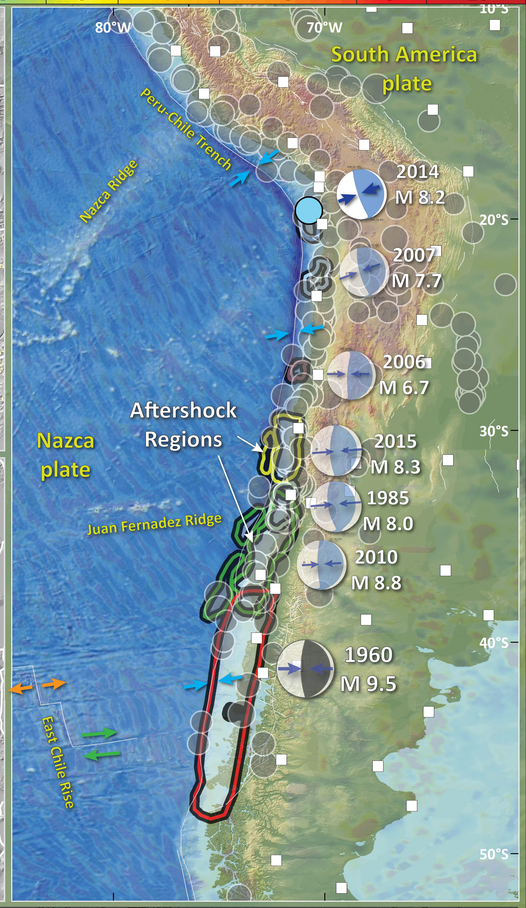


SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
DAMAGE	None	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV (cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10









1 Apr '14 M 8.2
3 Apr '14 M 7.7
14 Nov '07 M 7.7
30 Apr '06 M 6.7

Seismicity (USGS - 3 month)
magnitude
3.5 - 4.0
4.1 - 4.5
4.6 - 5.0
5.1 - 5.5
5.6 - 6.0
6.1 - 6.5
6.6 - 7.0
7.1 - 7.5
7.6 - 8.2

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

Seismicity (USGS - 100 yr)
magnitude
6.5 - 6.8
6.9 - 7.2
7.3 - 7.8
7.9 - 8.5
8.6 - 9.5

Fault
GEM
Slab 1.0 Contour (m)

Elevation
High
Low

Depth
Shallow
Deep

Historic Earthquake Rupture
Date - Magnitude
2006 M 6.7
2007 M 7.7
2014 M 8.2
City (Natural Earth)

0 50 100 200 Miles
0 75 150 300 Kilometers

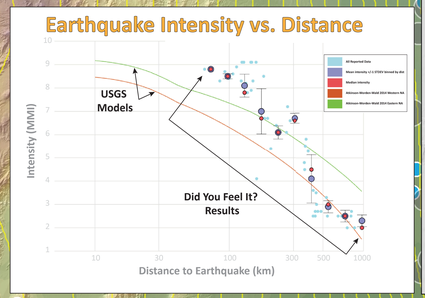
Topography:
doi: 10.1029/2008GC002332

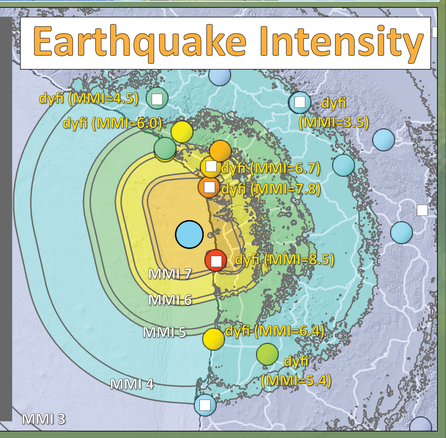
Made with Natural Earth
Free vector and raster map data @ naturalearthdata.com

GEM
GLOBAL EARTHQUAKE MODEL
working together to assess risk

Jason R. Patton
earthjay.com © 2023

USGS
science for a changing world



Intensity (USGS)
MMI
I (Not Felt)
II - III (Weak)
IV (Light)
V (Moderate)
VI (Strong)
VII (Very Strong)
VIII (Severe)
IX (Violent)
X+ (Extreme)
Road

0 100 200 Kilometers