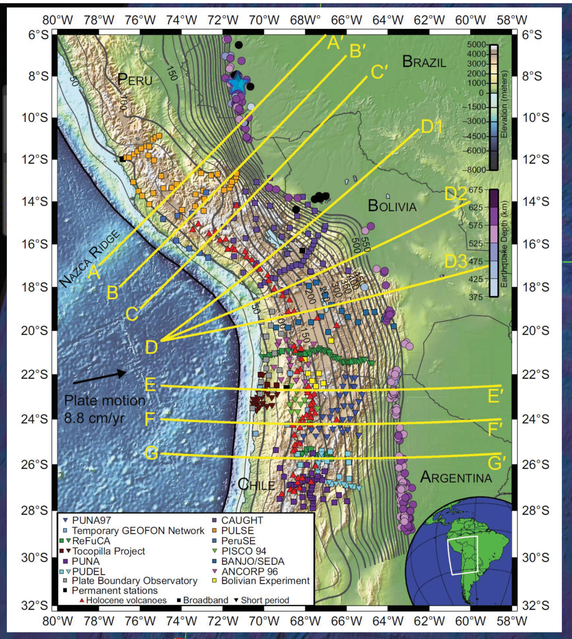
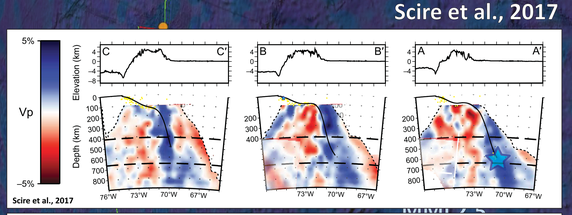
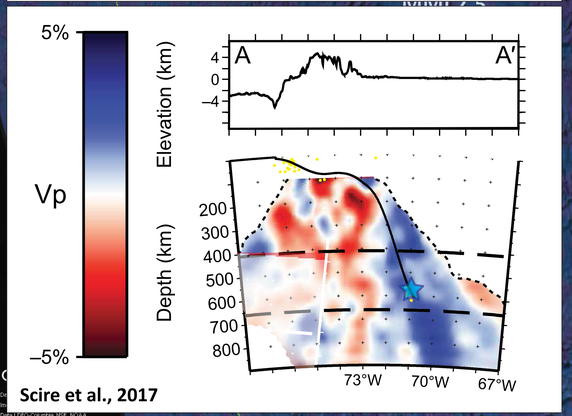
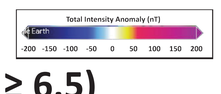
Earthquake Report: 2019.01.05
M 6.8 Brazil (& USGS Seismicity 1918-2018 M ≥ 6.5)







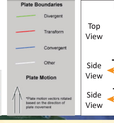


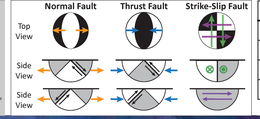
CIRES





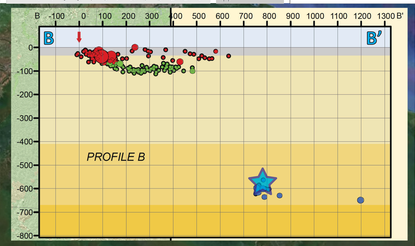


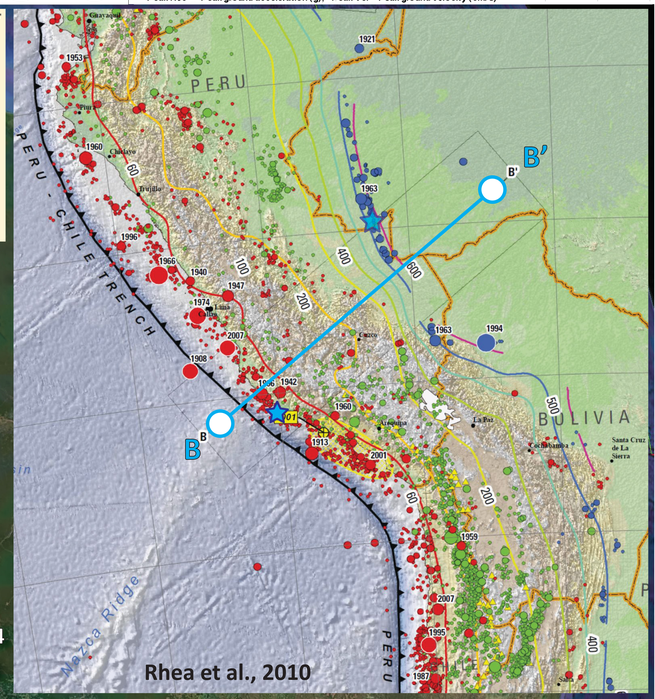




INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Damage	None	None	None	Very slight	Light	Moderate	Moderate/ heavy	Heavy	Very heavy
Peak Acc	<0.17	0.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
Peak Vel	<0.1	0.1- 1.1	1.1- 3.4	3.4- 8.1	8.1- 16	16 - 31	31 - 60	60-116	>116

Peak Acc = Peak ground acceleration (g), Peak Vel = Peak ground velocity (cm/s)





Cocos plate

NZ-SA

CO-NZ

NZ-CO

1970.07.31
M 8.0

1922.01.17
M 7.9

1921.12.18
M 7.9

Oak\ & Bina, 1994

1922 Doublet

2003.06.20
M 7.1

2019.01.05
M 6.8

1989.05.05
M 7.1

2015 Doublet

2015.11.24
M 7.6 (2)

2015.11.24
M 7.6 (1)

1990.10.17
M 7.0

2018.08.24
M 7.1

1994.06.09
M 8.2

1991.07.06
M 7.0

Viru fracture zone

Mendaña fracture zone

Peru Trench

Nazca plate

Nazca Ridge

Nazca fracture zone

South America plate

Scire et al., 2017

