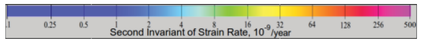
Earthquake Report: 2019.05.12
M 6.1 Panama (& USGS Seismicity 1919-2019 M ≥ 6.0)



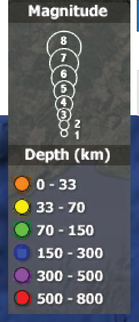
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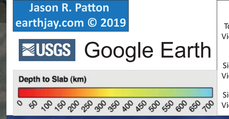
GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

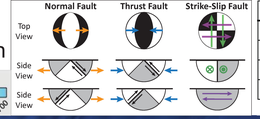
Nevada Geodetic Laboratory

Jason R. Patton earthjay.com © 2019

USGS Google Earth

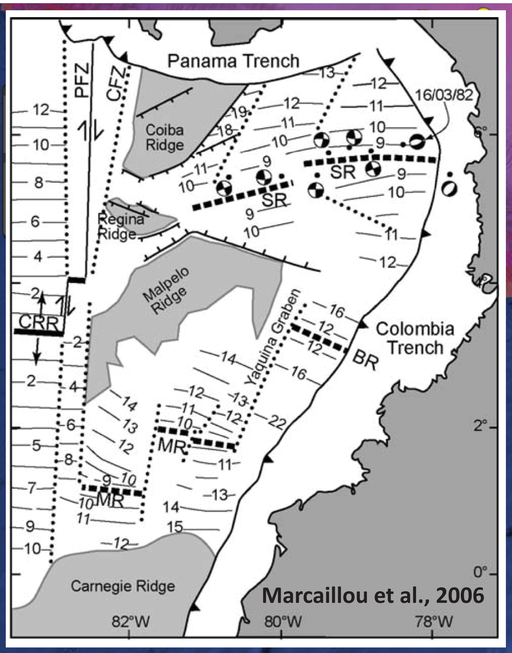


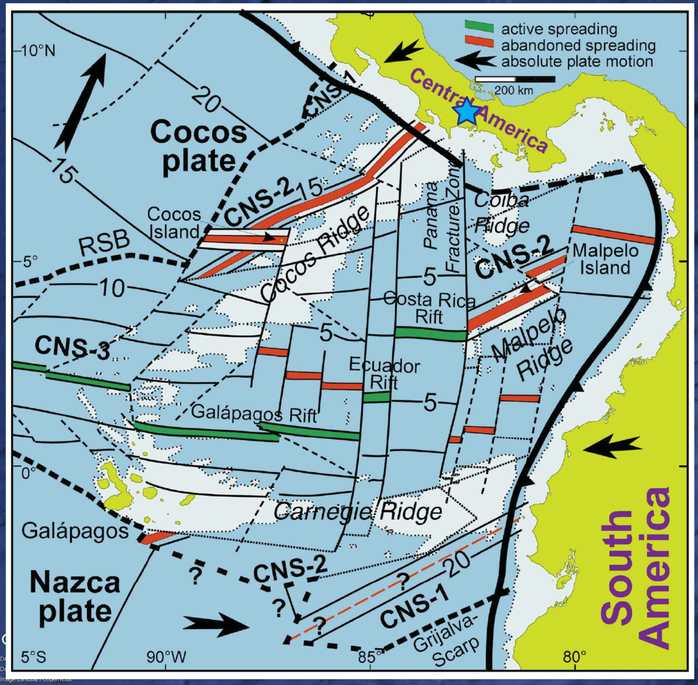




INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Damage	None	None	None	Very slight	Light	Moderate	Moderate/ heavy	Heavy	Very heavy
Peak Acc	<0.17	0.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
Peak Vel	<0.1	0.1- 1.1	1.1-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





Meschede & Barckhausen, 2000

Caribbean plate

Middle America Trench

North Panama Thrust Belt

2019.05.12
M 6.1

2003.12.25
M 6.5

1934.07.18
M 7.5
(Camacho, 1991)

2014.12.08
M 6.6

2014.05.13
M 6.5

1982.08.19
M 6.8

2015.01.07
M 6.5

Cocos ridge

Panamá fracture zone

Colba ridge

Sandra paleo-rift

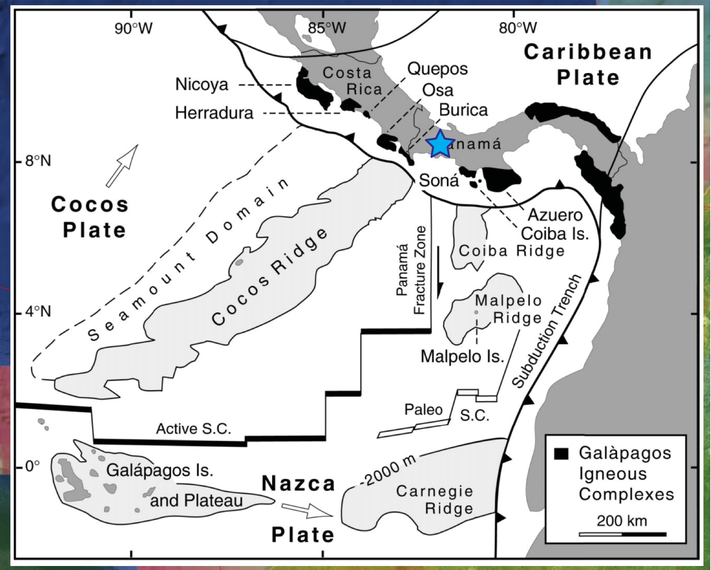
Malpelo ridge

Ecuador Trench

Cocos plate

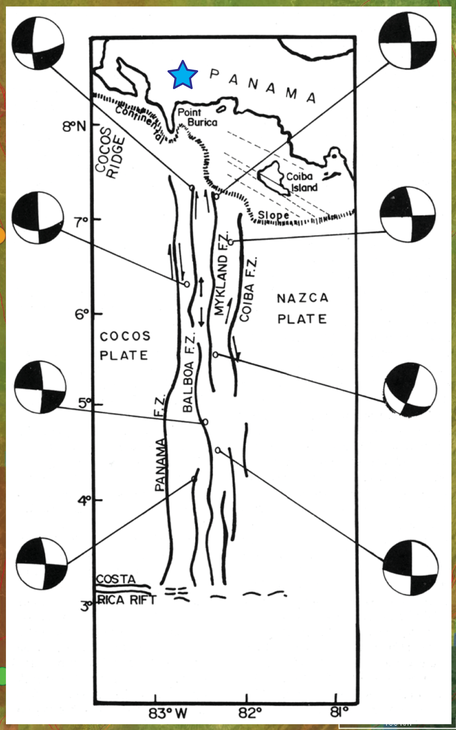
Nazca plate

100 km N



Hoernle et al., 2002

Camacho, 1991



USGS