Earthquake Report: 2020.01.08
M 5.1 Dominca (& USGS Seismicity 1920-2020 M ≥ 5)

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

Jason R. Patton
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USGS Google Earth
GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

Depth to Slab (km): 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

Normal Fault | Thrust Fault | Strike-Slip Fault
Top View / Side View

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+

Magnitude: 8 7 6 5 4 3 2 1

Depth (km)
- 0 - 33
- 33 - 70
- 70 - 150
- 150 - 300
- 300 - 500
- 500 - 800

2019.09.24
M 6.0

2020.01.07
M 6.4

Mona Rift Sequence

Ponce Sequence

Hait Earthquake
2010.01.12
M 7.0

North America plate

Puerto Rico trench

20 40 60 80 100 120 140 160

Muertos Trough

Caribbean plate

2016.10.18
M 5.6

1996.09.24
M 5.8

2020.01.08
M 5.1

Barracuda Ridge

Tiburon Rise

B

B'

2007.12.05
M 5.2

2007.11.29
M 7.4

Venezuela Basin

Grenada Basin

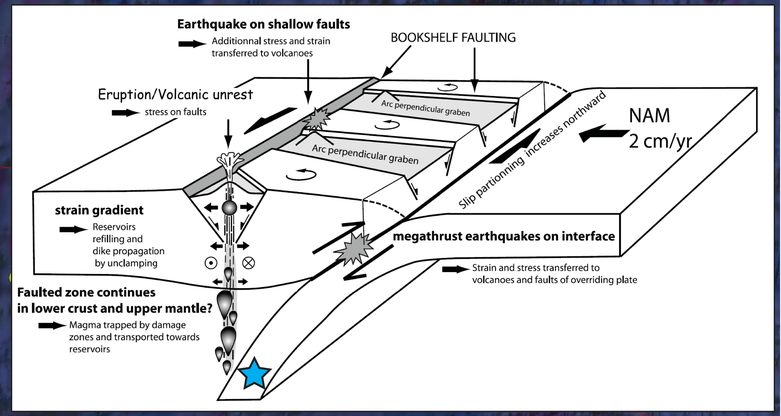
Tobago Basin

Barbados Accretionary Wedge

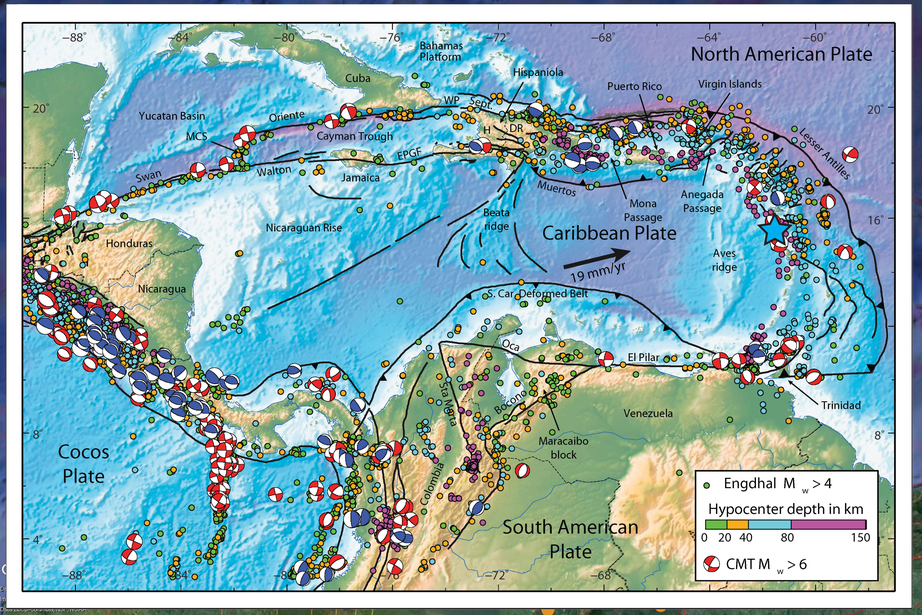
South America plate

South America plate

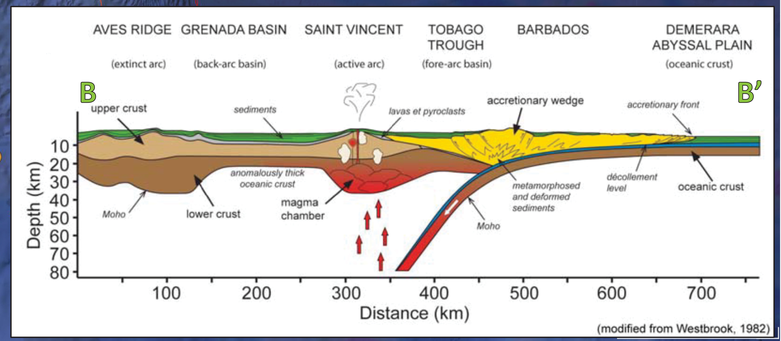
Symithe et al., 2015



Feuillet et al., 2011



Pichot, 2012



(modified from Westbrook, 1982)