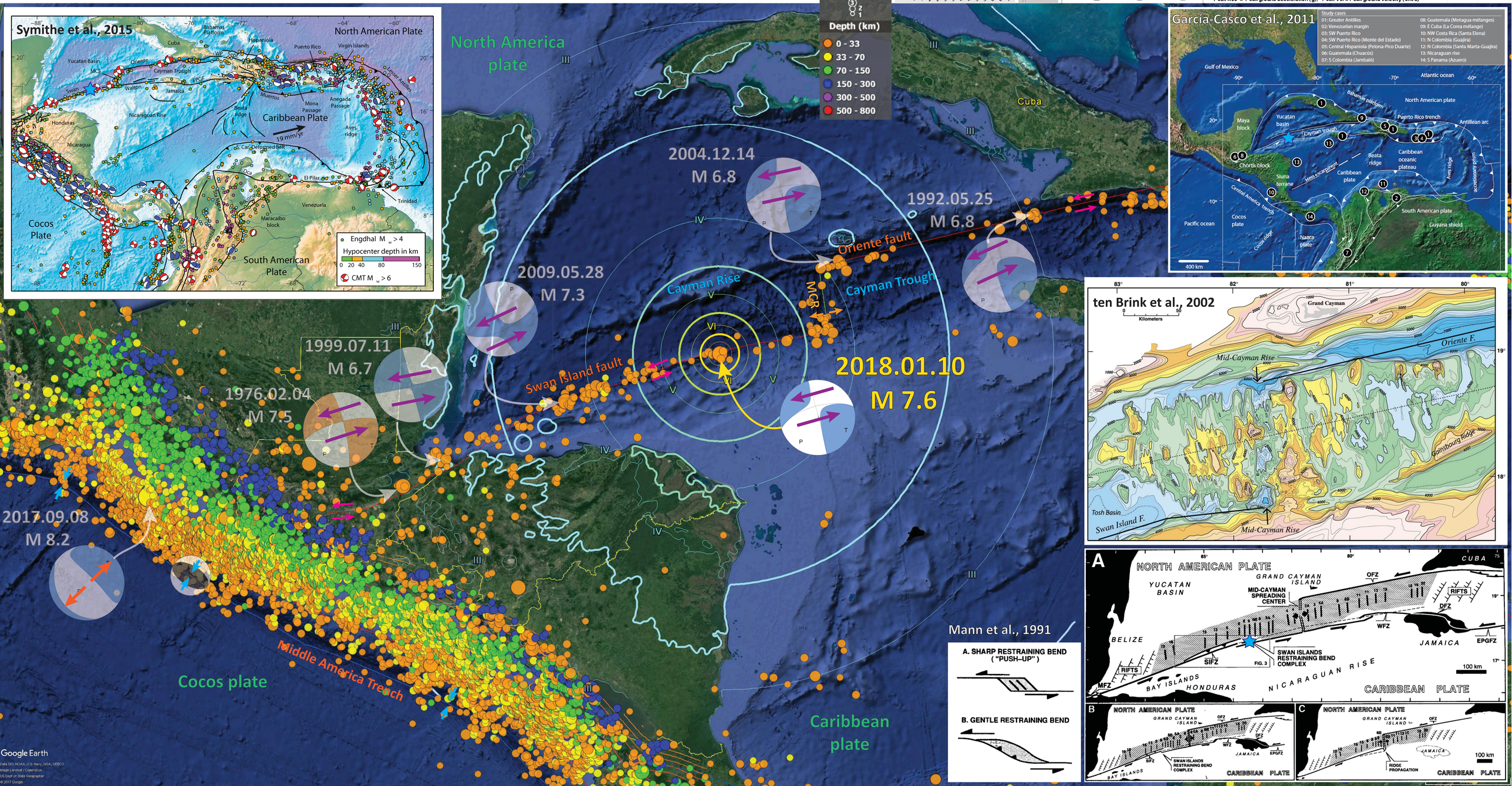
Earthquake Report: 2018.01.10

M 7.6 Cayman Trough (& USGS Seismicity 1918-2018 M ≥ 4.5)



Magnitude

8 7 6 5 4 3 2 1

Depth (km)

- 0 - 33
- 33 - 70
- 70 - 150
- 150 - 300
- 300 - 500
- 500 - 800

Jason R. Patton
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USGS Google Earth

Depth to Slab (km)

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

Plate Boundaries
Divergent
Transform
Convergent
Other
Plate Motion
*Plate motion vectors relative to fixed Pacific plate (GeoMech)

Normal Fault | Thrust Fault | Strike-Slip Fault

Top View / Side View

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)

Mann et al., 1991

Google Earth
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus
US Dept of State Geographer
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