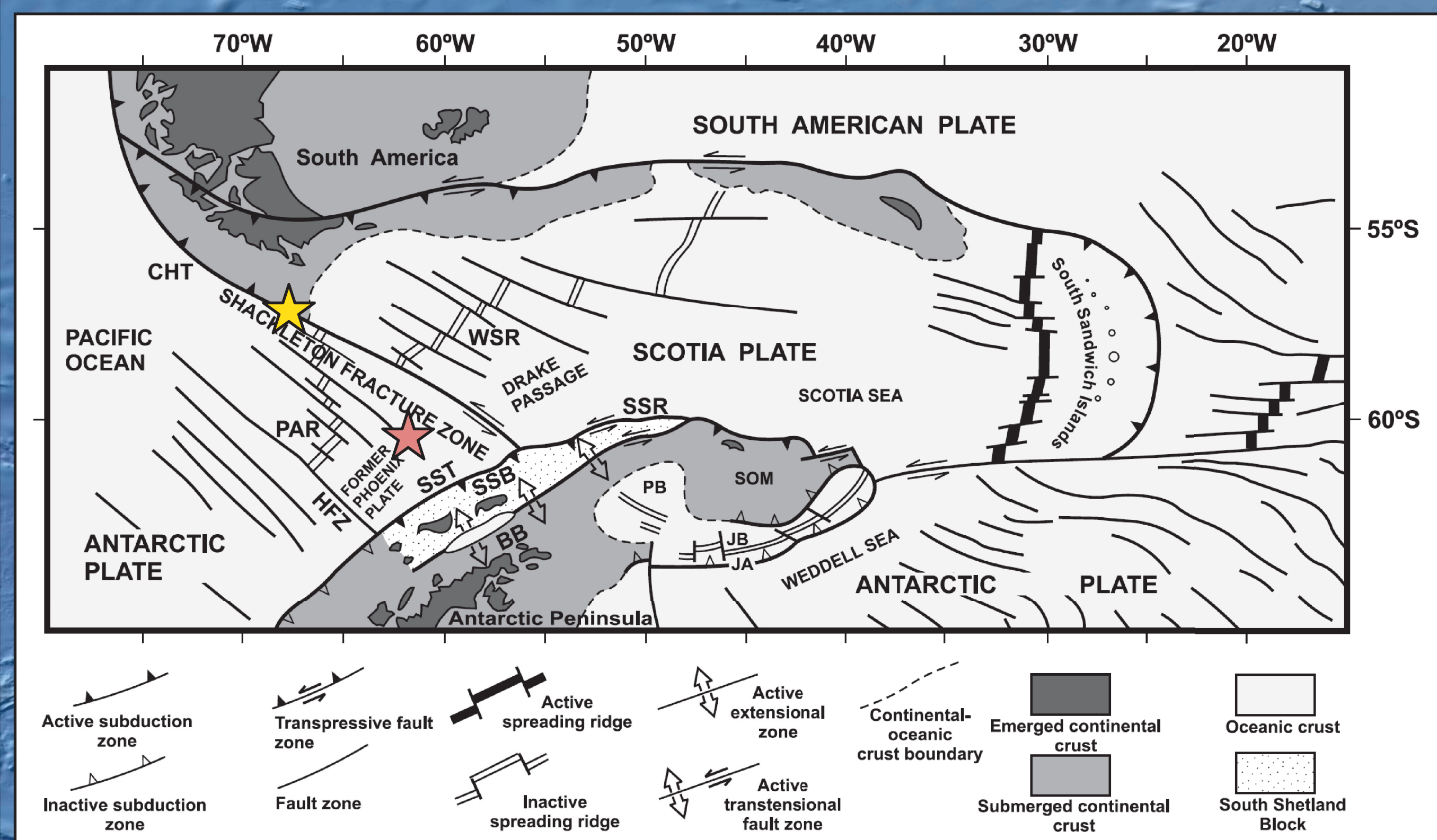
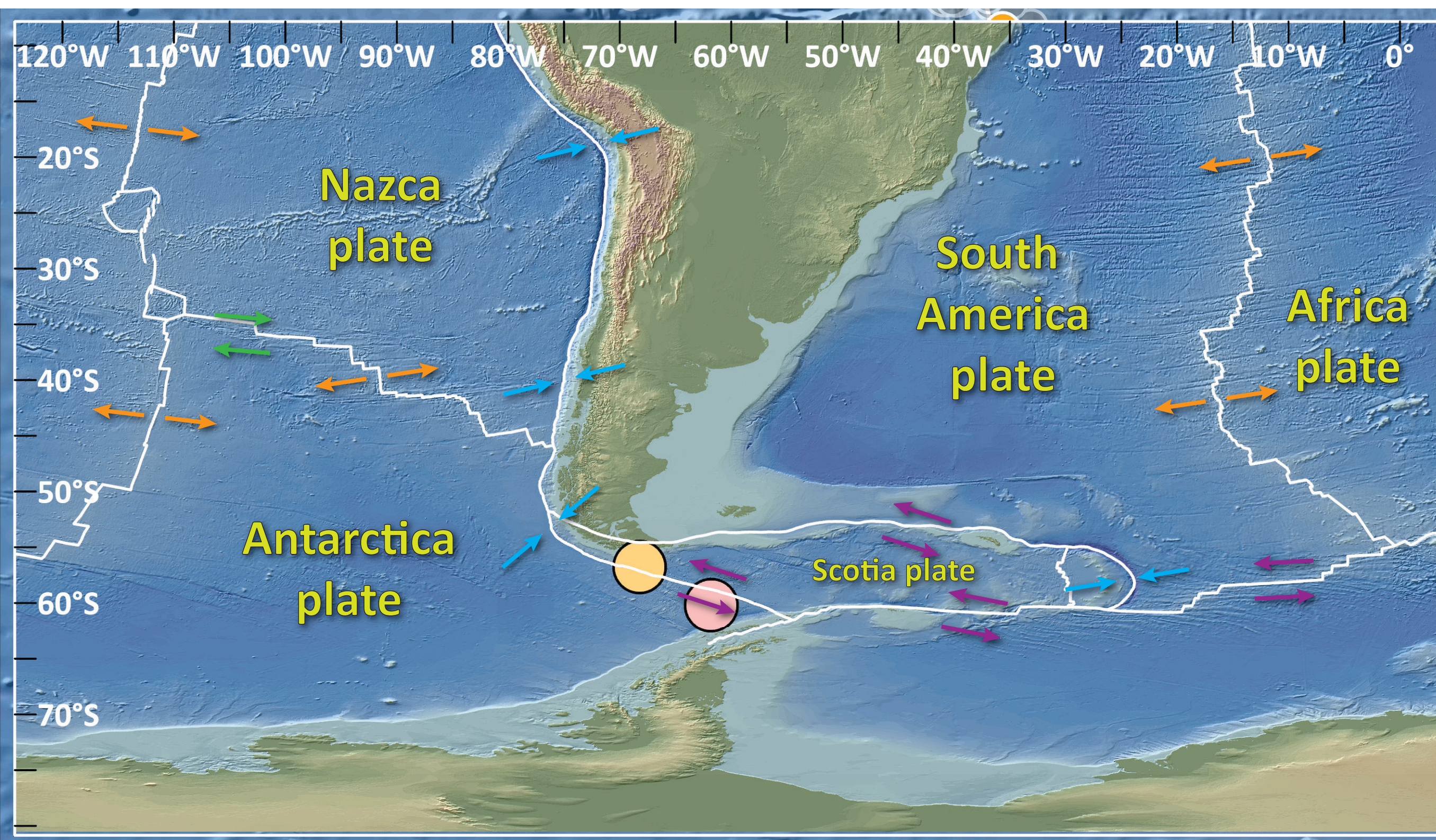


Earthquake Report: 2025.08.22

M 7.5 Drakes Passage (& USGS Seismicity 1900-2025 M ≥ 4.5)

Mechanism Types	Normal Fault			Thrust Fault			Strike-Slip Fault			SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
										DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
										PGA (%)	<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



22 Aug '25 M 7.5

2 May '25 M 7.4

Seismicity (USGS - 3 month) magnitude

- 0.5 - 1.0
- 1.1 - 2.0
- 2.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0
- 7.1 - 7.6

Depth to Slab (km)

0 75 150 300 Miles

0 125 250 500 Kilometers

Topography: GMRT Ryan et al., 2009 DOI: 10.1029/2008GC002332

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GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

USGS science for a changing world

Seismicity (USGS - 1 century) magnitude

- 4.7 - 5.5
- 5.6 - 6.5
- 6.6 - 7.5
- 7.6 - 8.5
- 8.6 - 9.5

Fault (GEM)

Tide Sensor

Populated Place

Depth: Shallow to Deep

Elevation: High to Low

