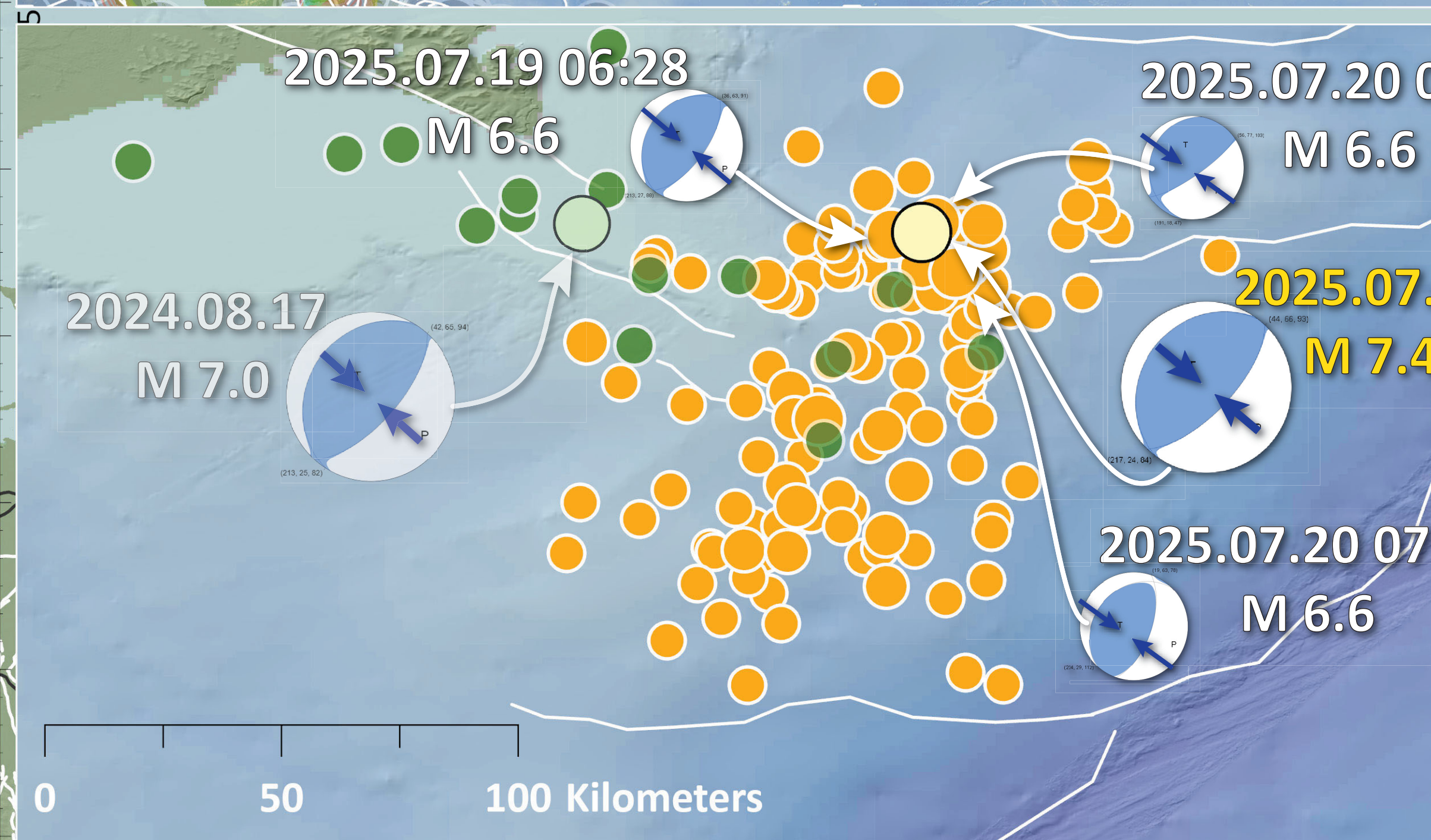
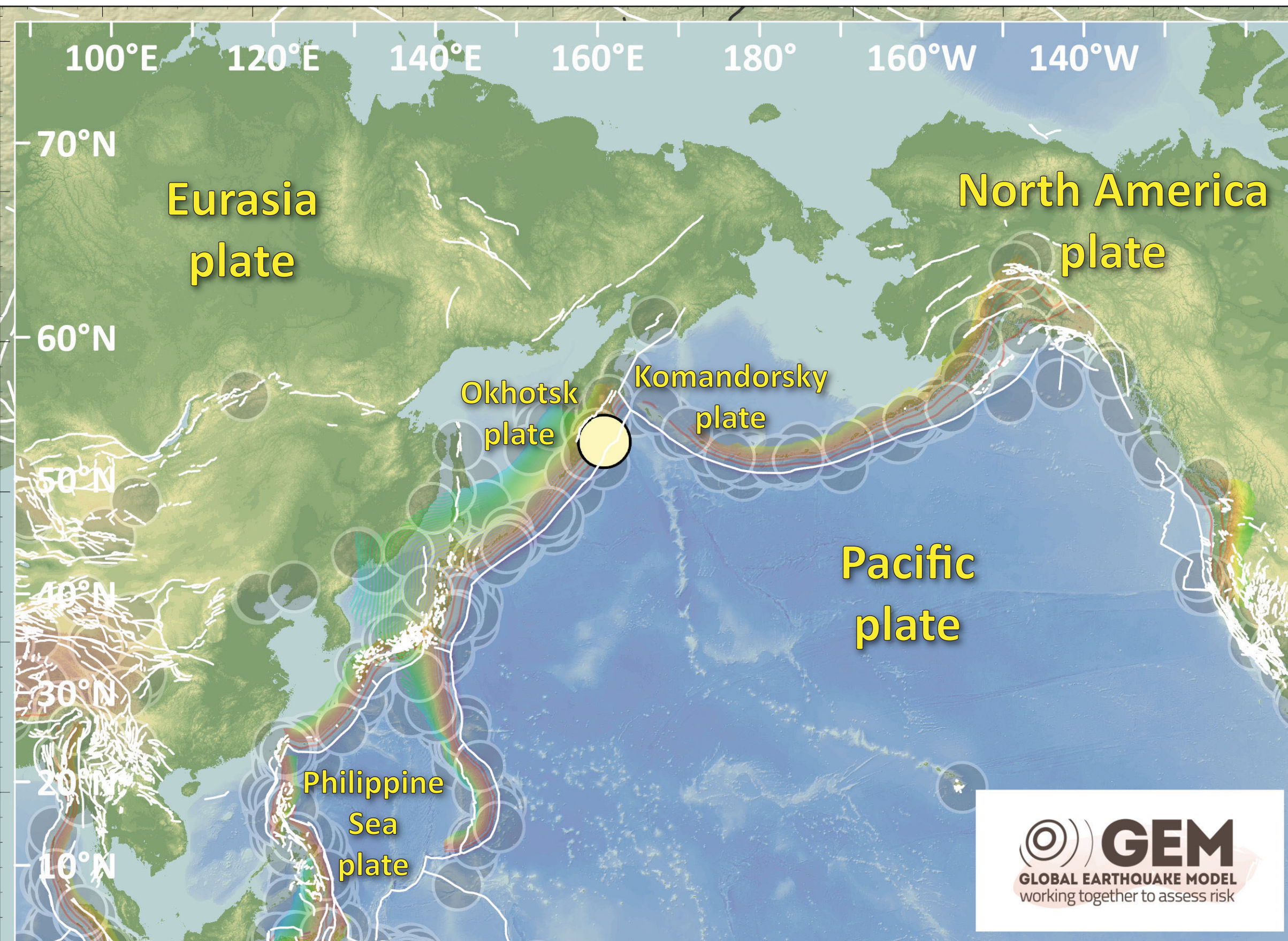


Earthquake Report: 2025.07.20

M 7.4 Kamchatka (& USGS Seismicity 1925-2025 M ≥ 7.0)



20 July '25 M 7.4

Seismicity (USGS - 1 week) magnitude

- 0.0 - 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 - 7.4

17 Aug '24 M 7.0

Seismicity '24 (USGS - 1 week) magnitude

- 0.0 - 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 7.1

Seismicity (USGS - 1 century) magnitude

- 7.0 - 8.0
- 8.1 - 9.0
- 9.1 - 9.5

— Road

■ Populated Place

— Fault (AFEAD_v2021)

Elevation High Low

Depth Shallow Deep

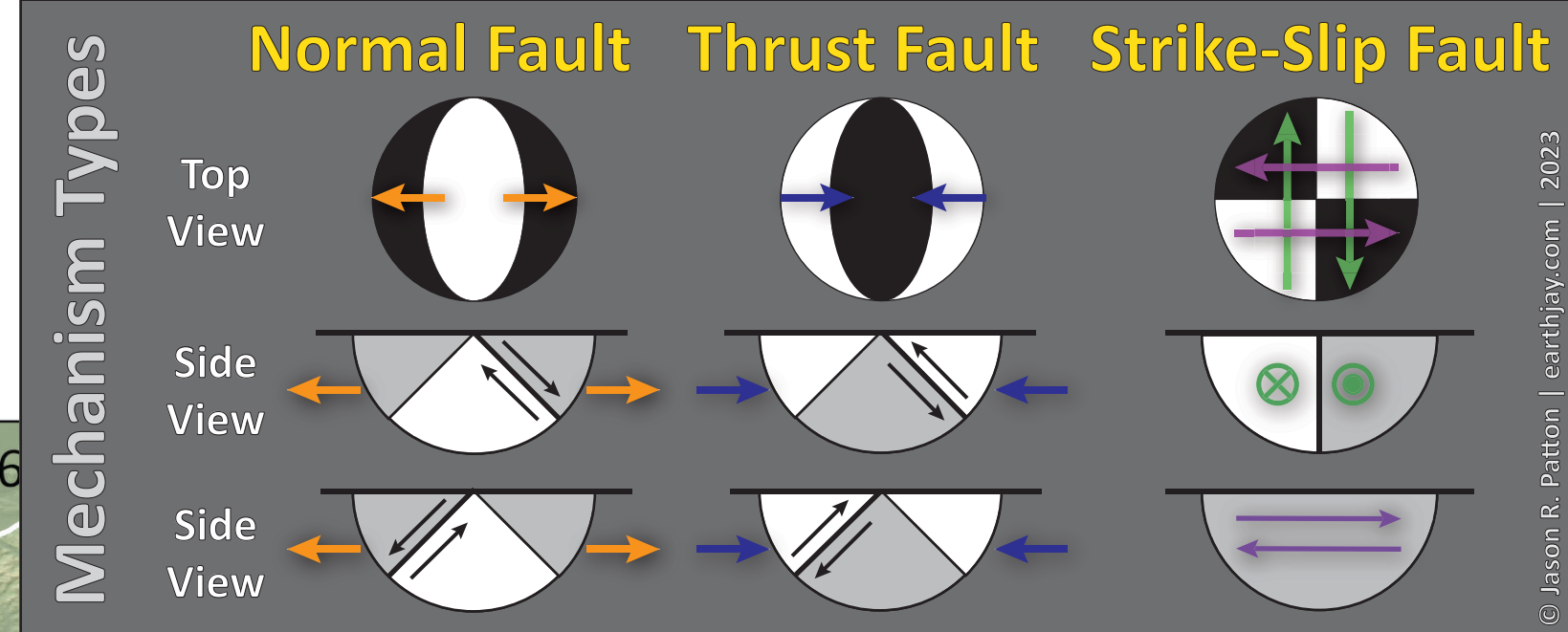
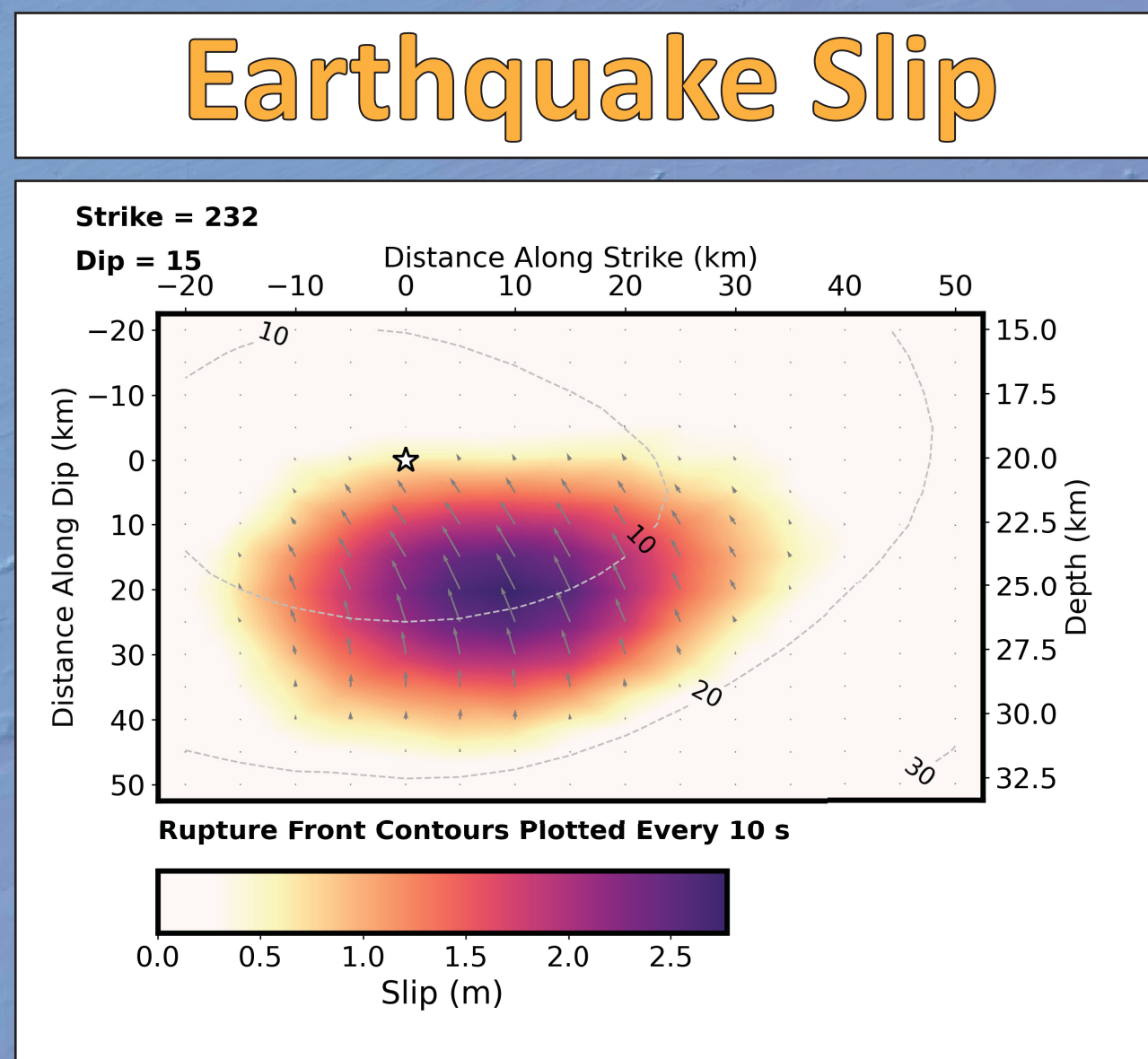
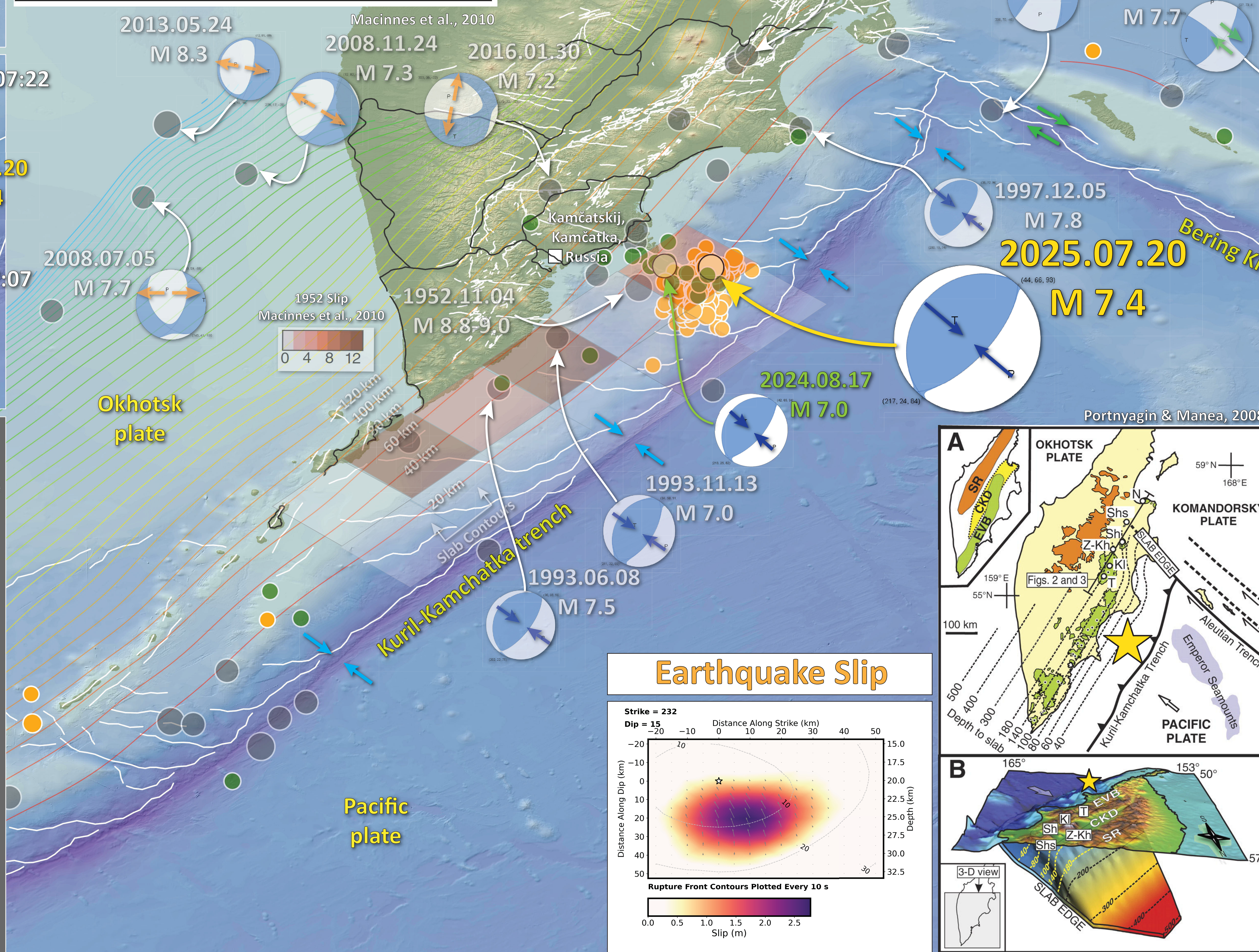
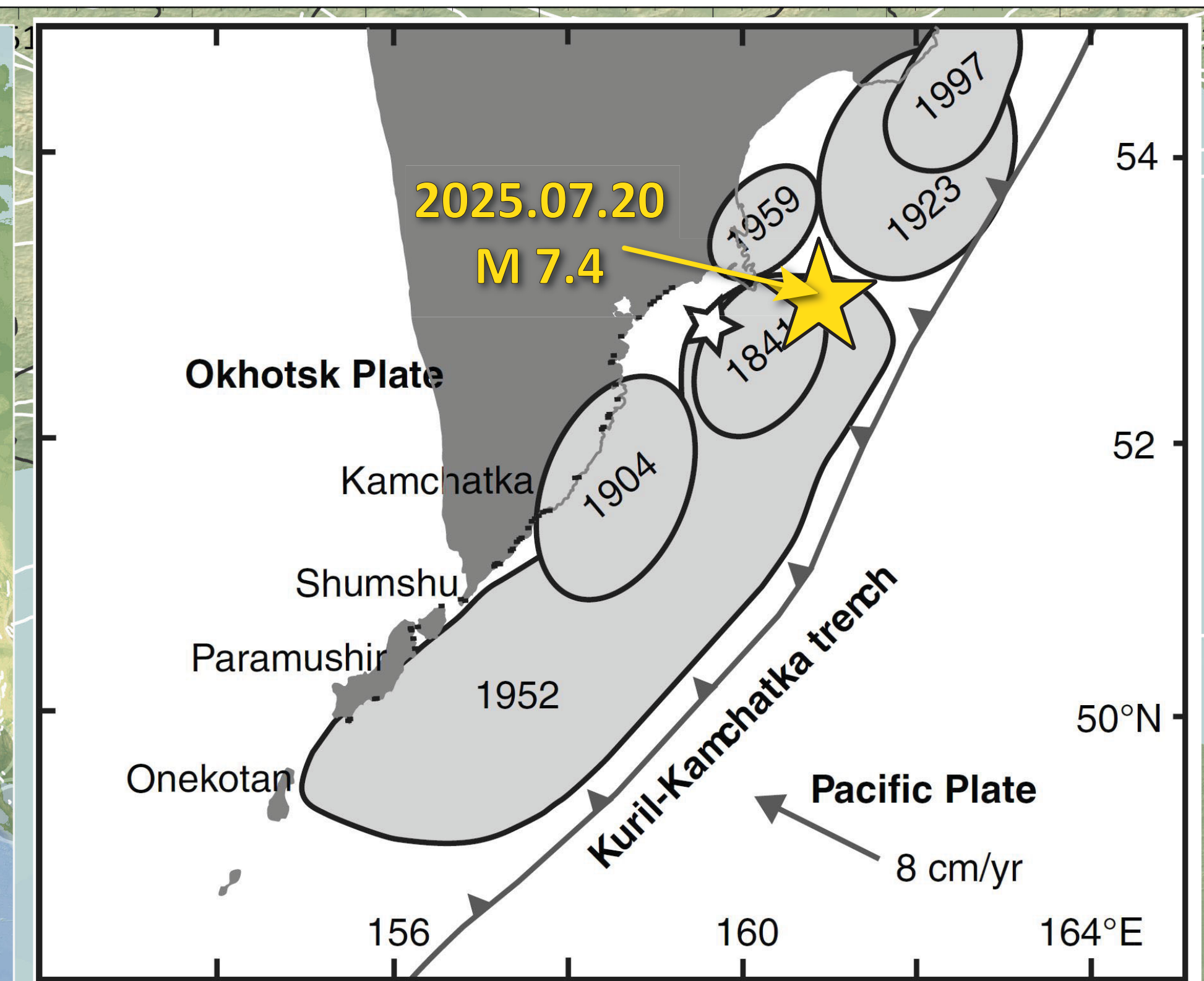
Depth to Slab (km)

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

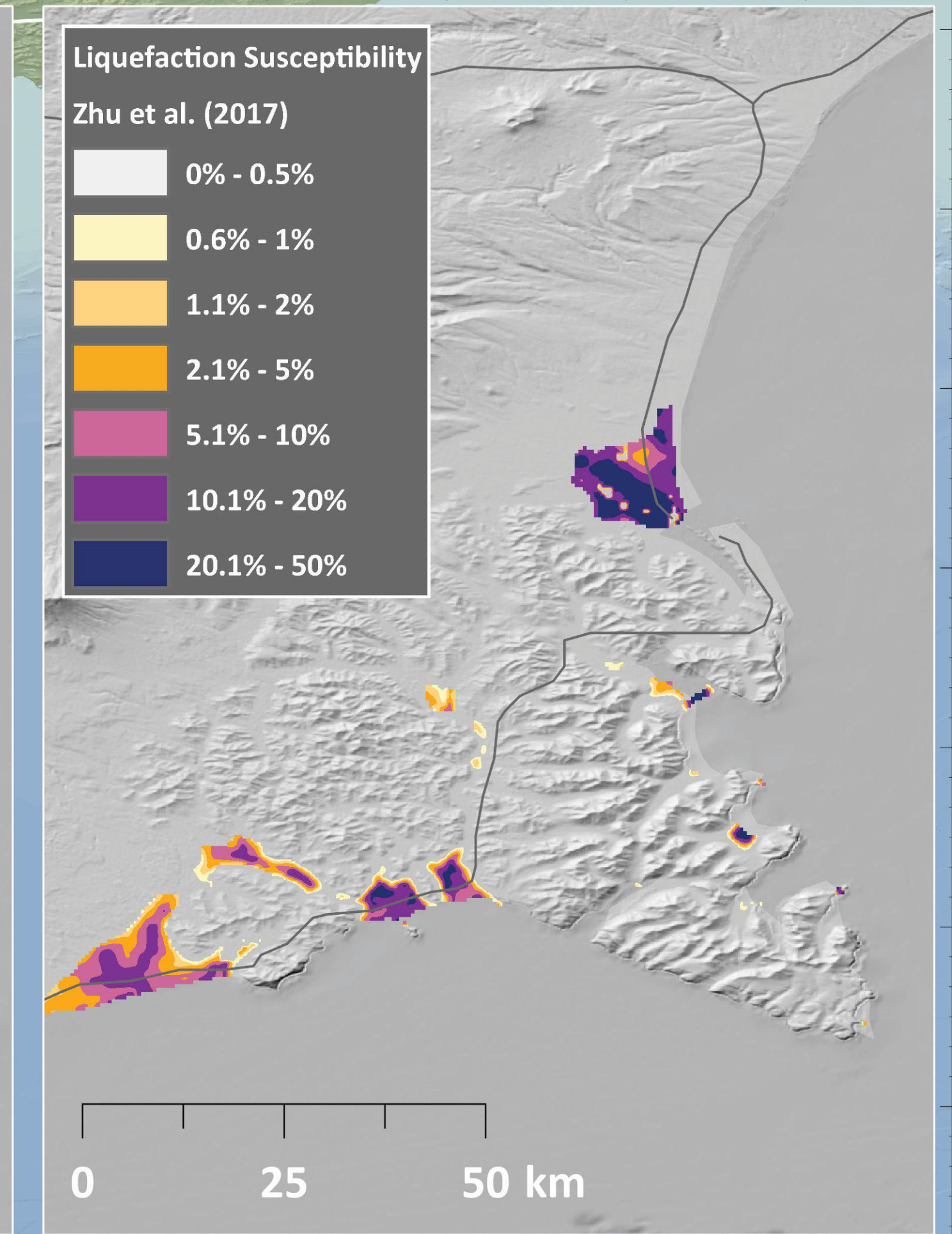
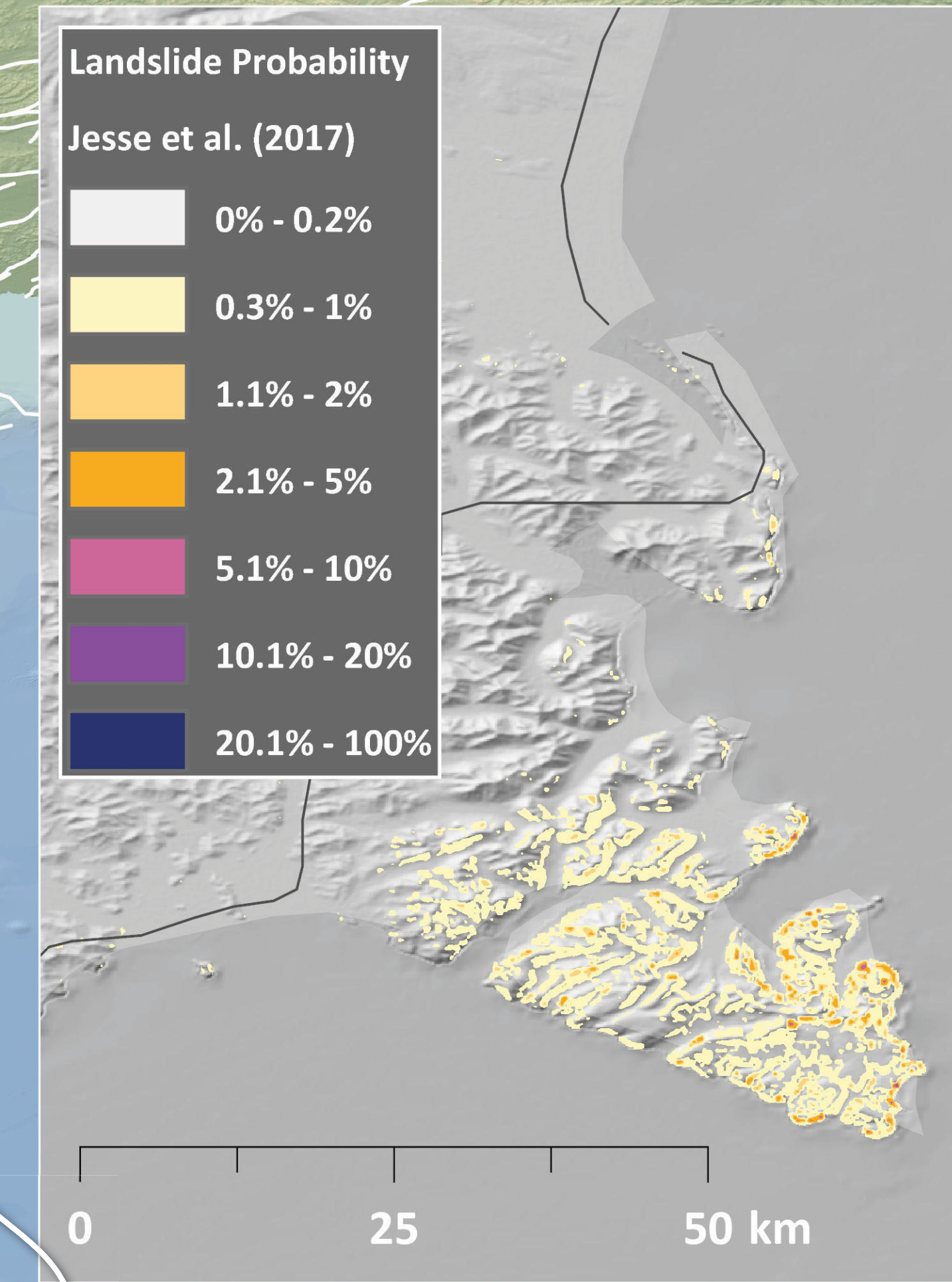
Topography: Ryan et al., 2009 doi:10.1029/2008GC002332. eorc.jaxa.jp/ALOS/en/aw3d30

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USGS science for a changing world



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 (%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



Ground Failure Models

