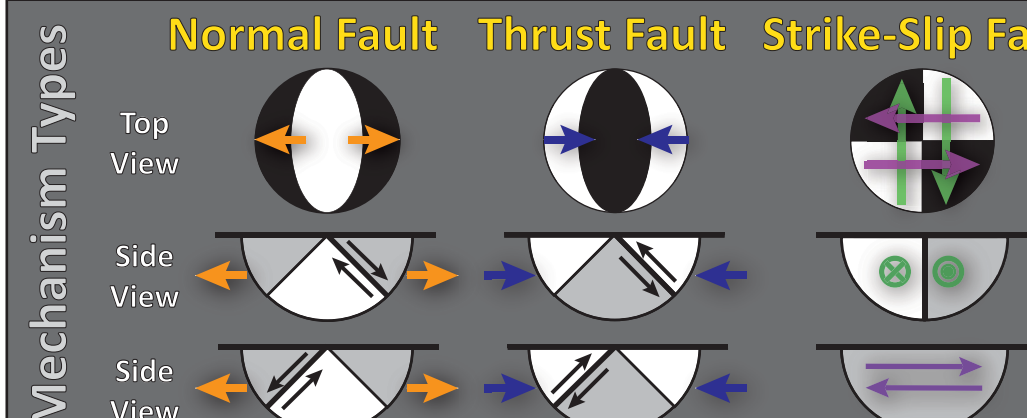
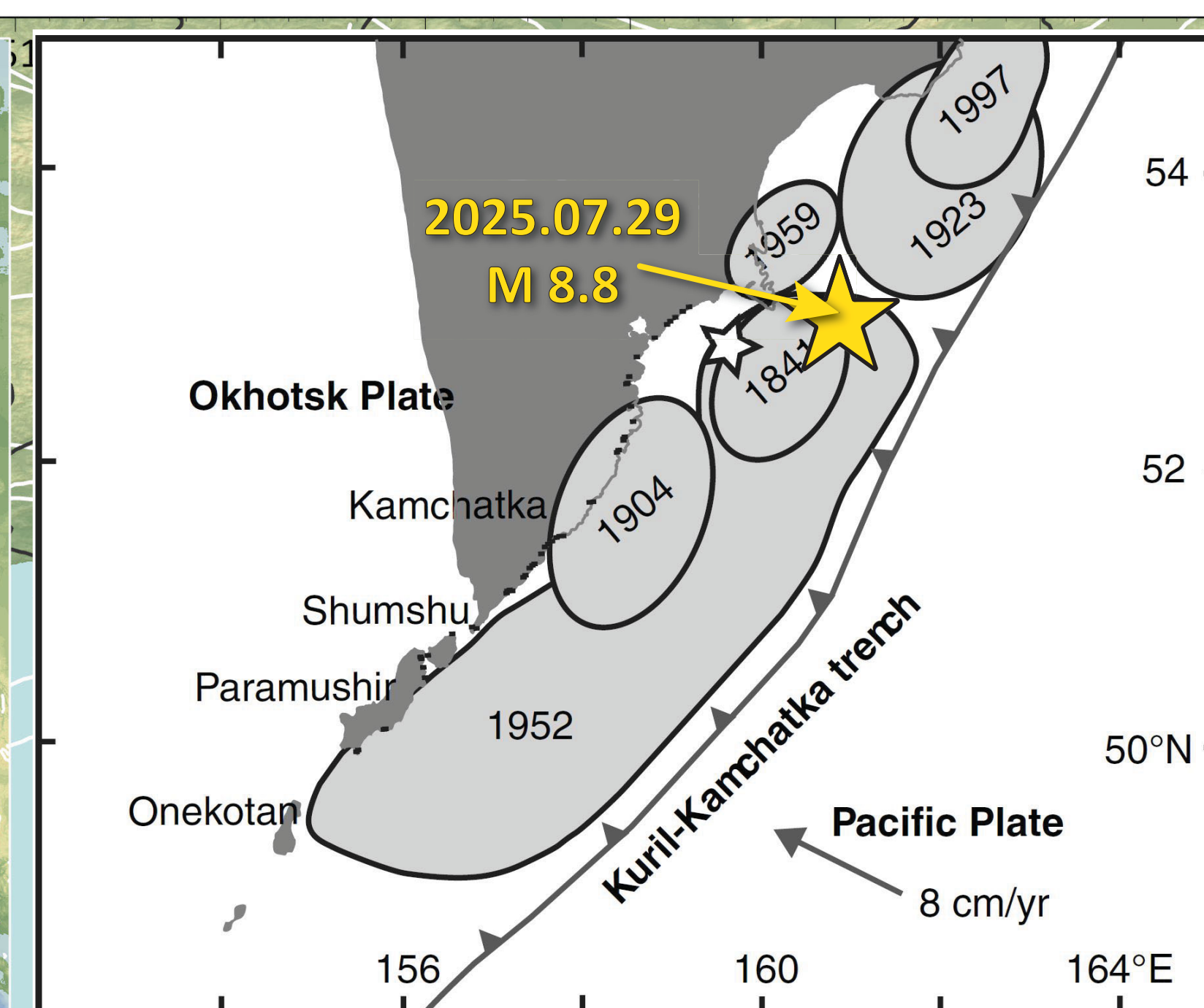
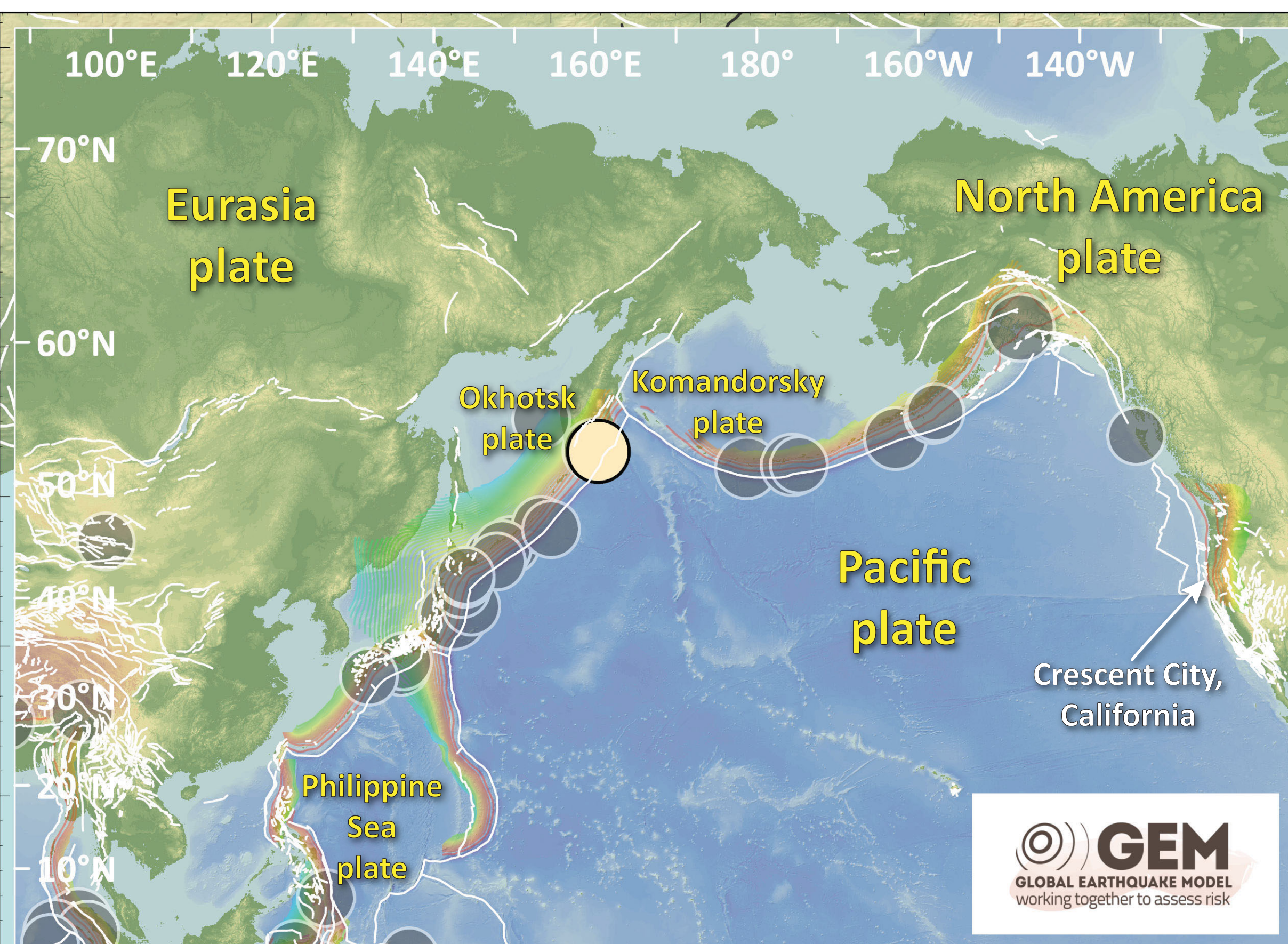


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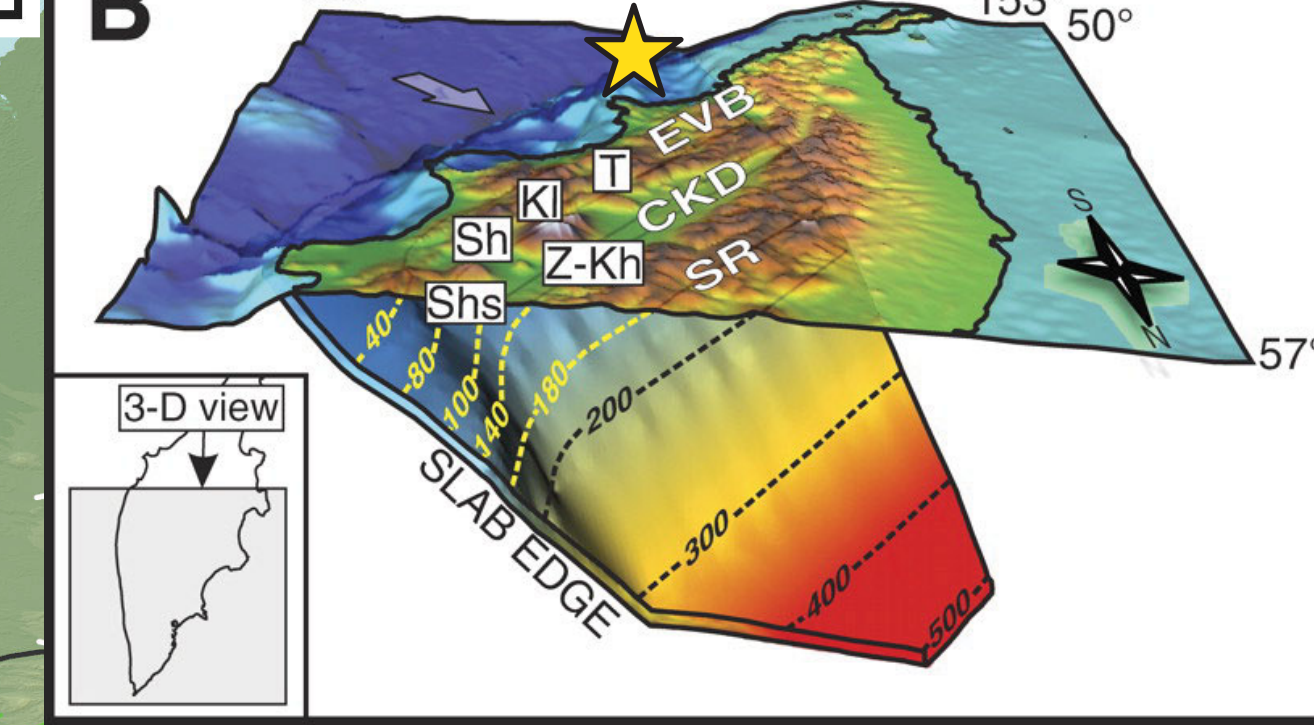
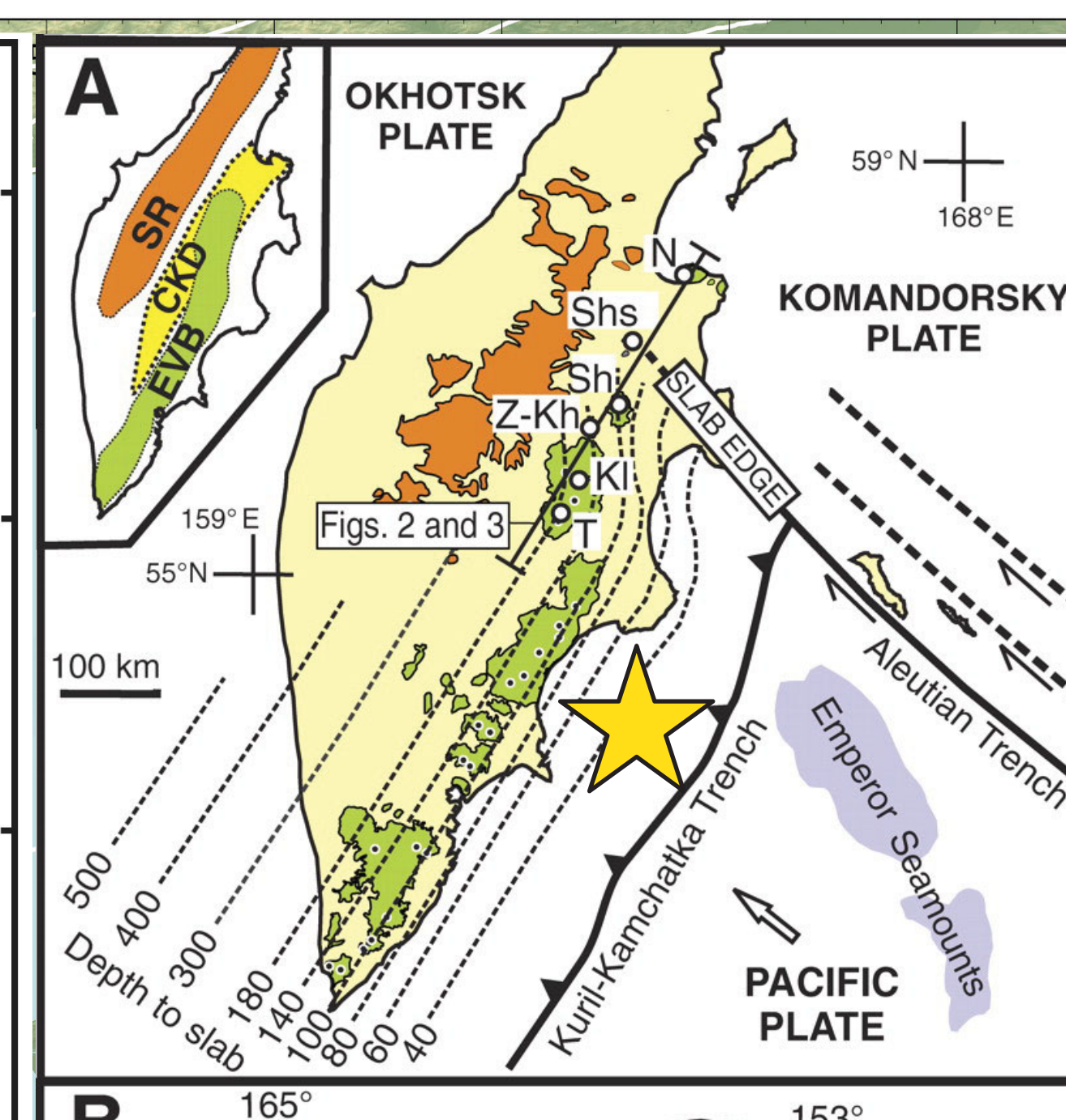
M 8.8 Kamchatka (& USGS Seismicity 1925-2025 M ≥ 8.0)



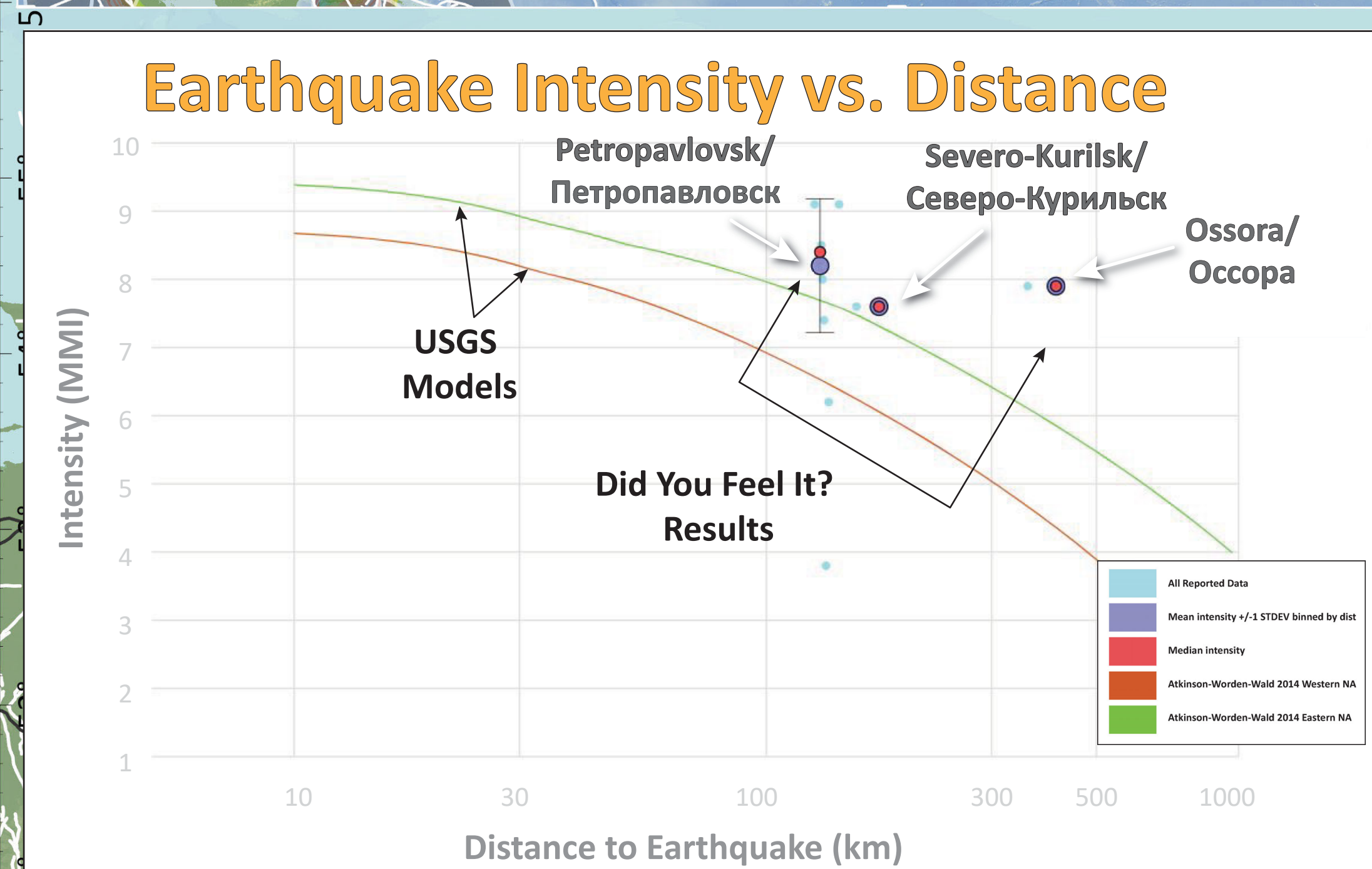
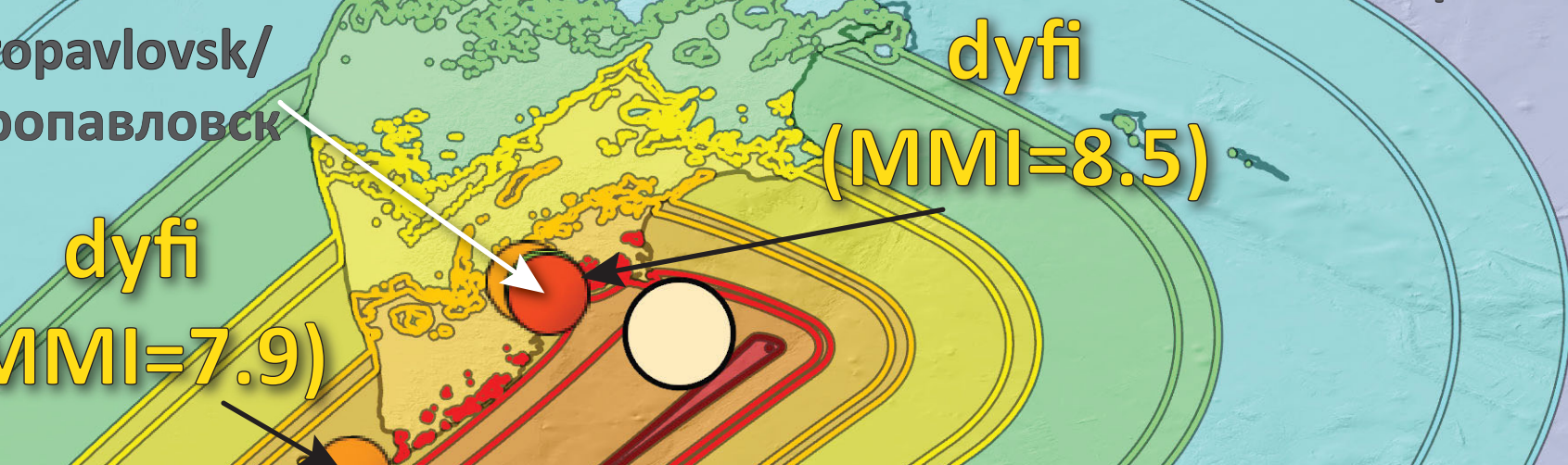
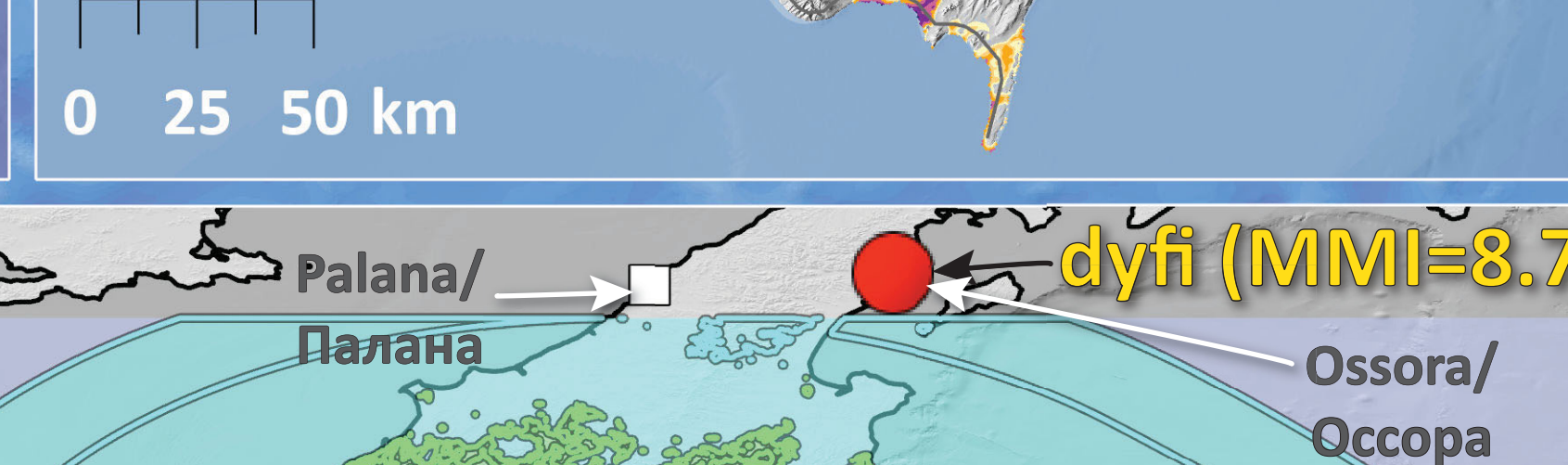
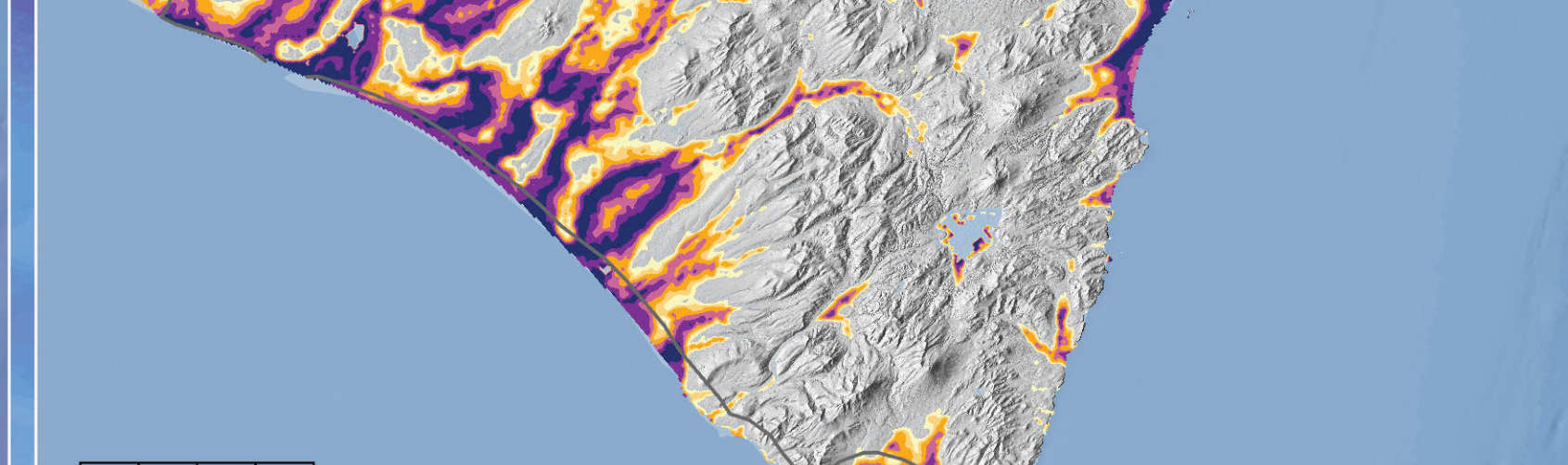
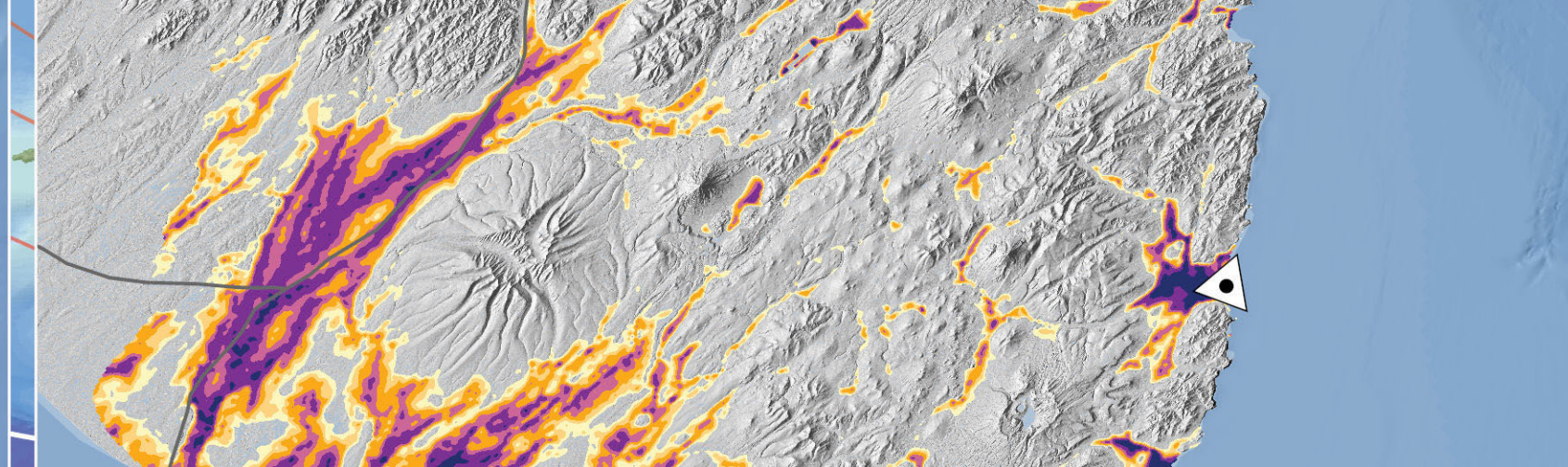
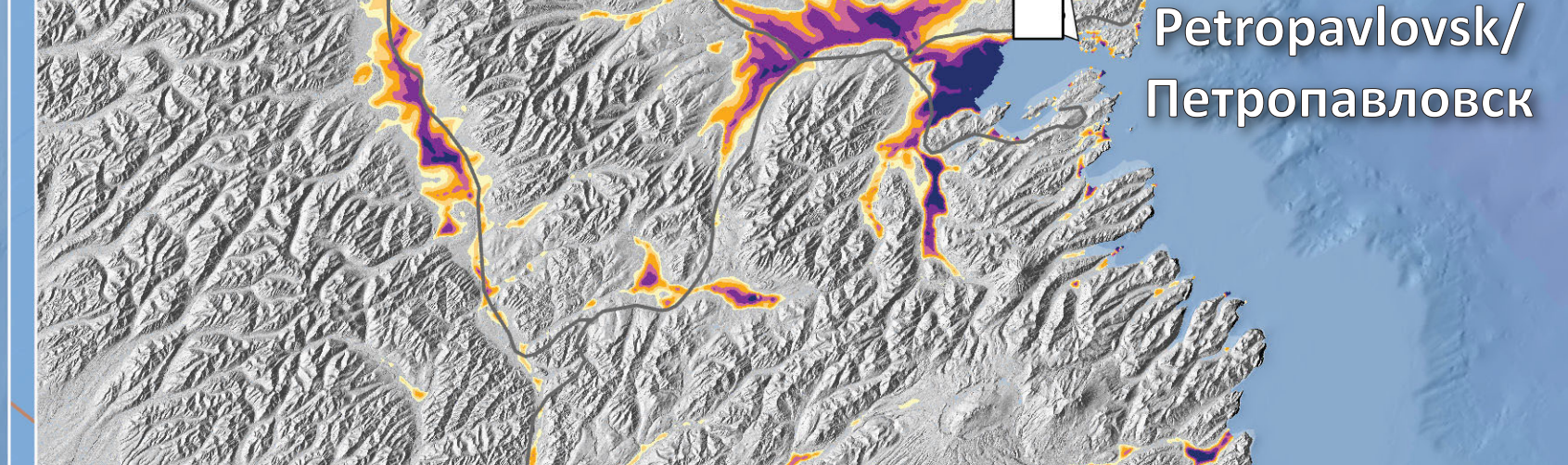
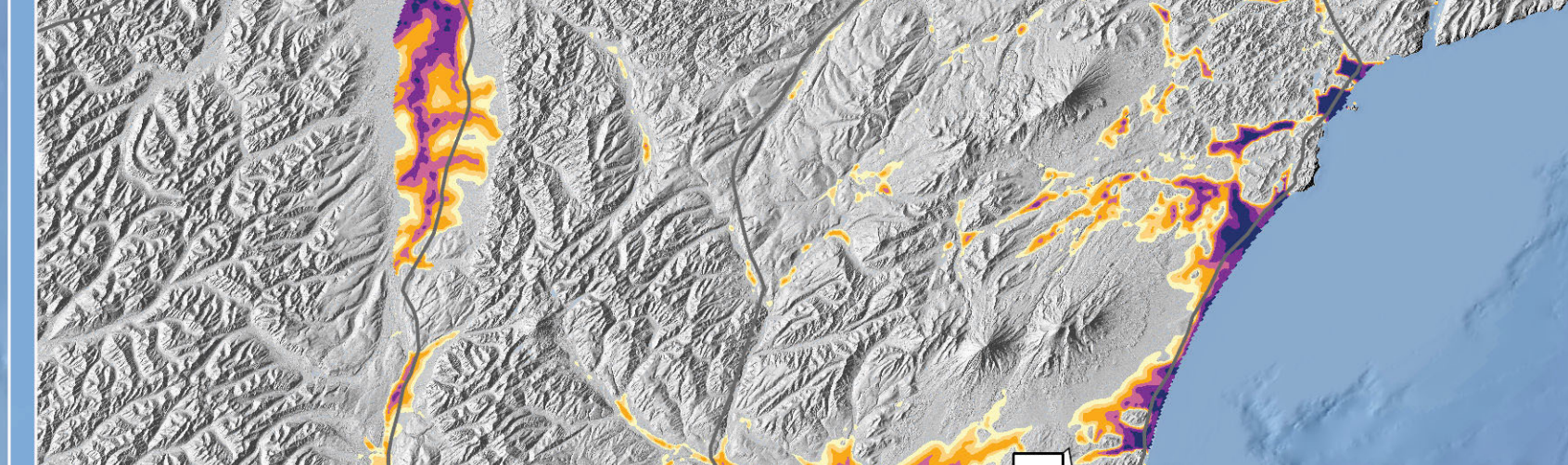
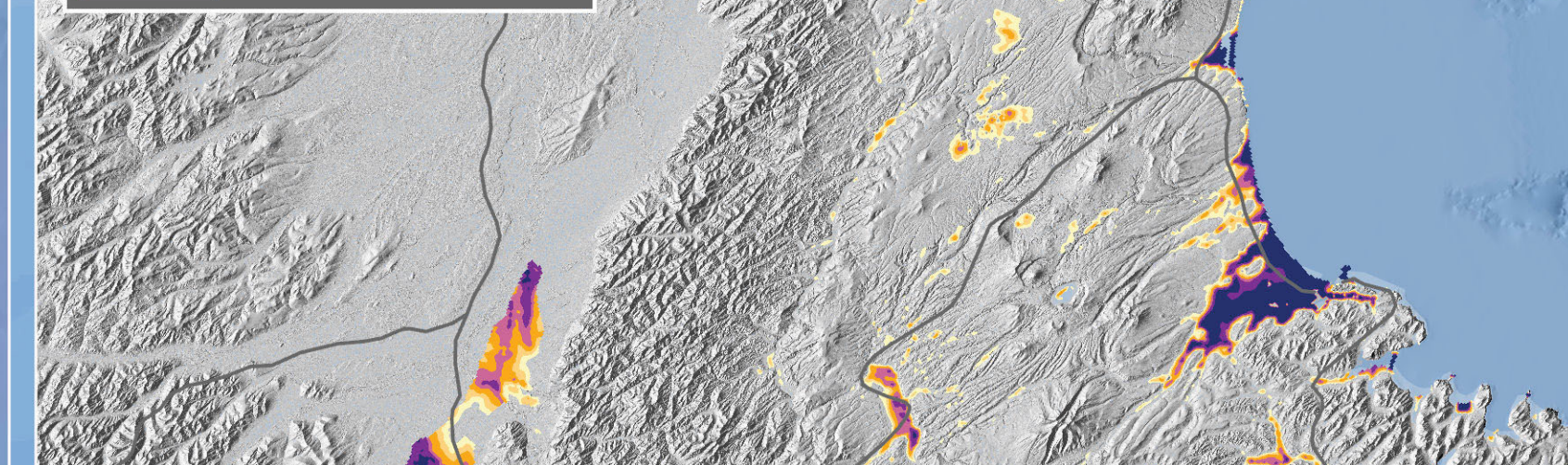
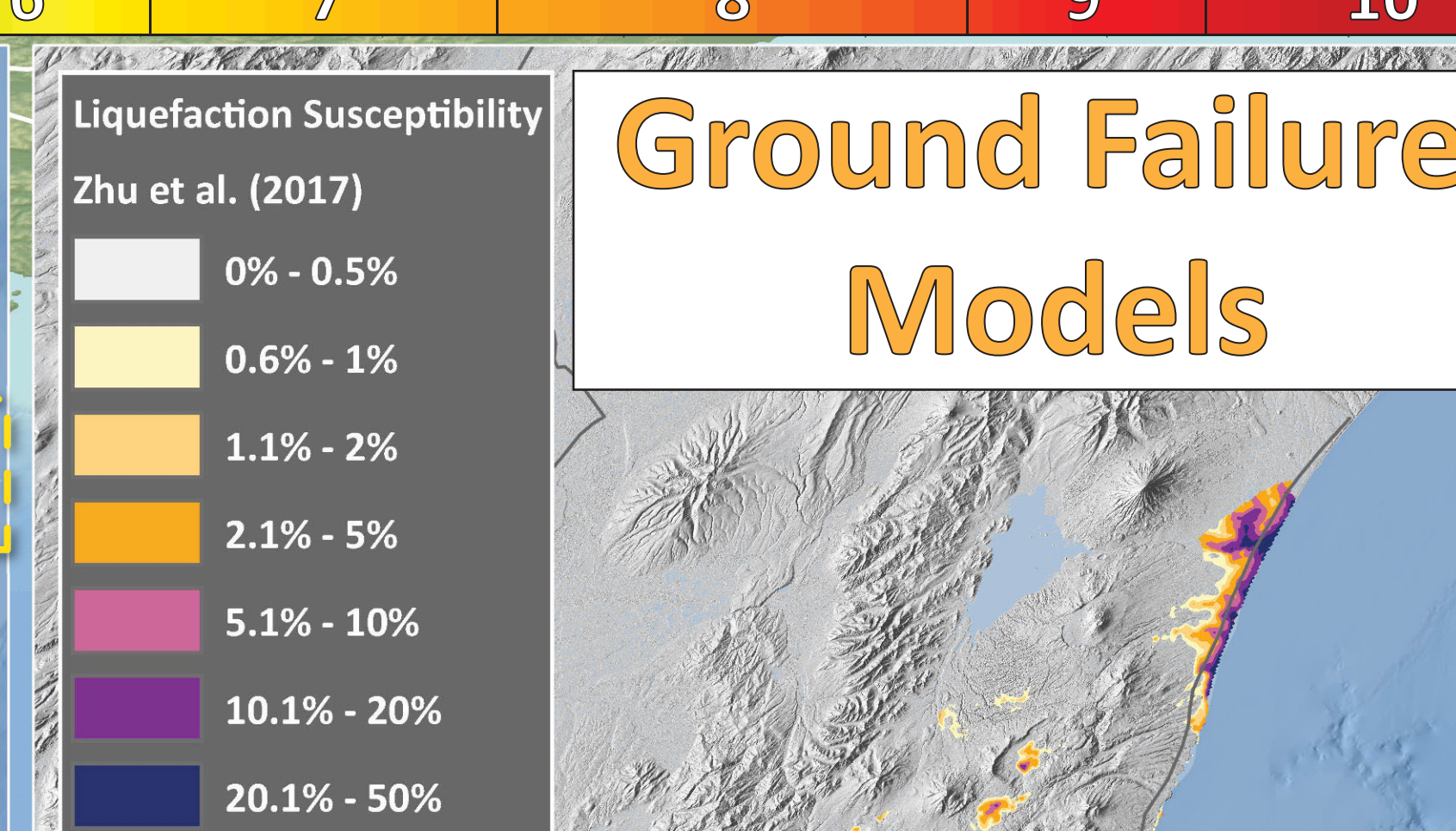
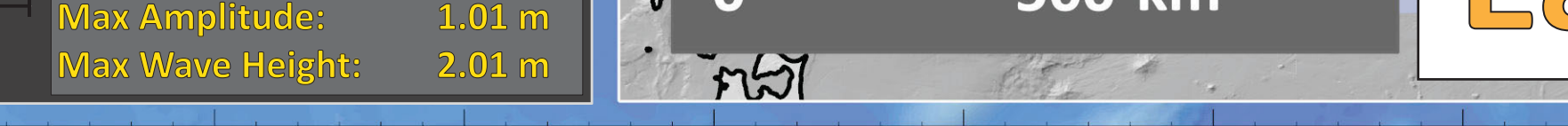
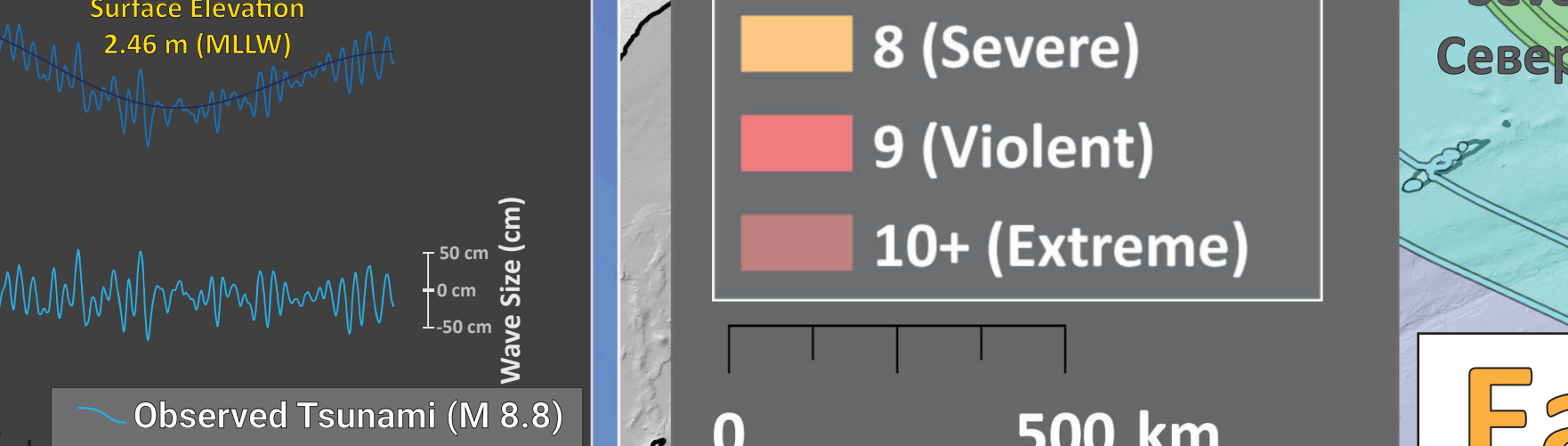
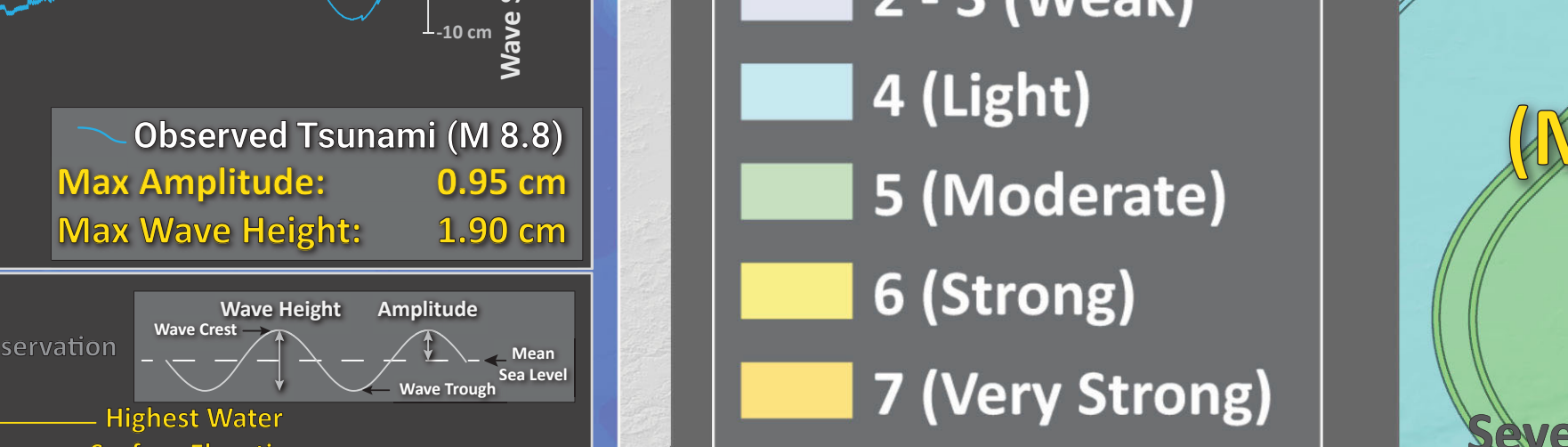
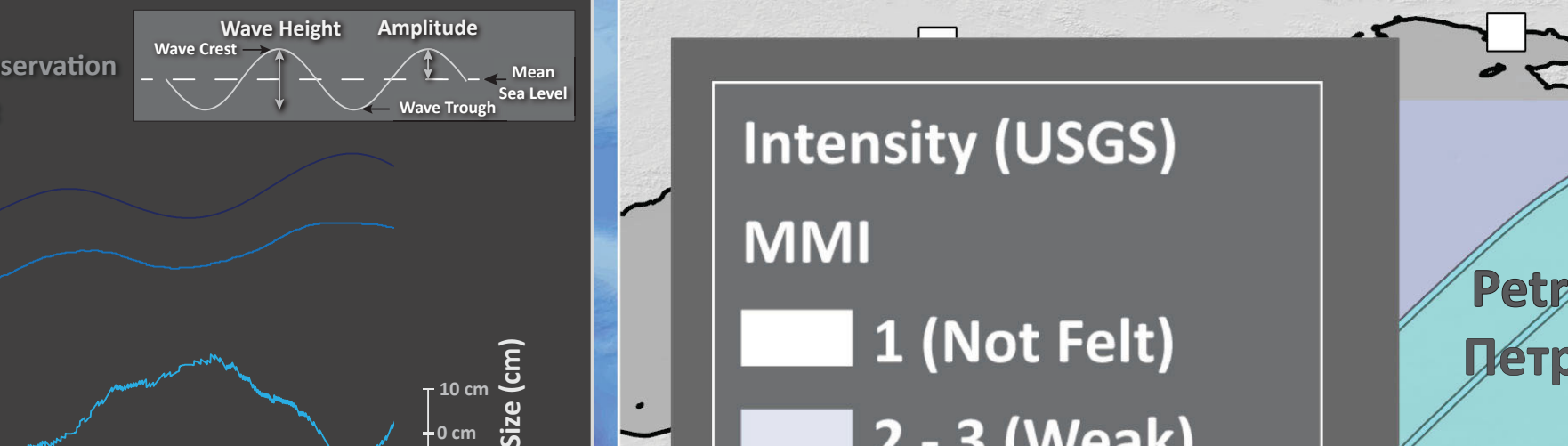
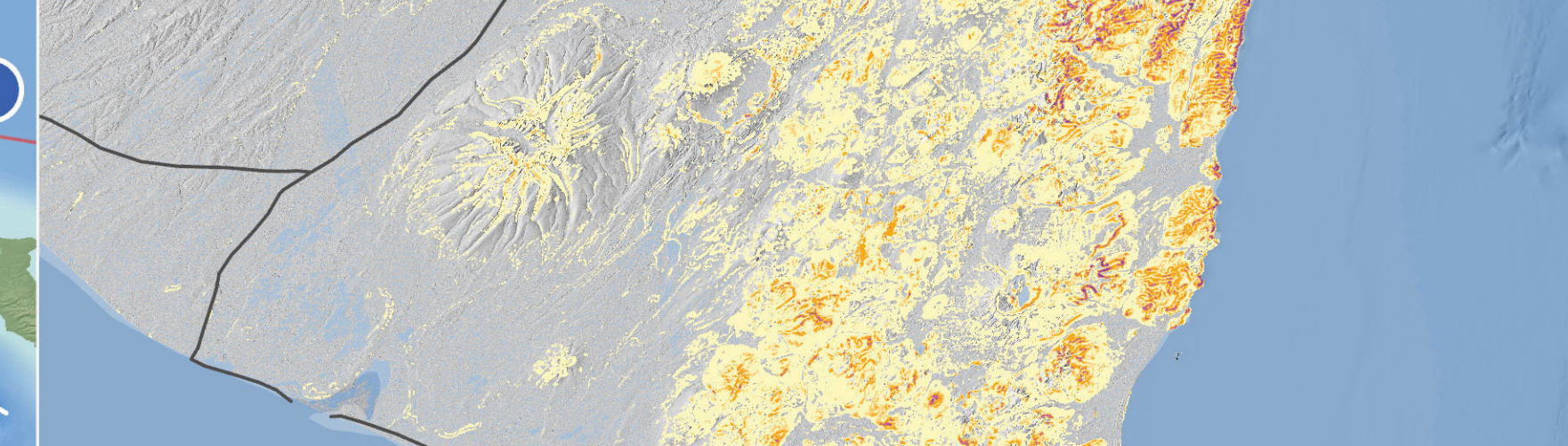
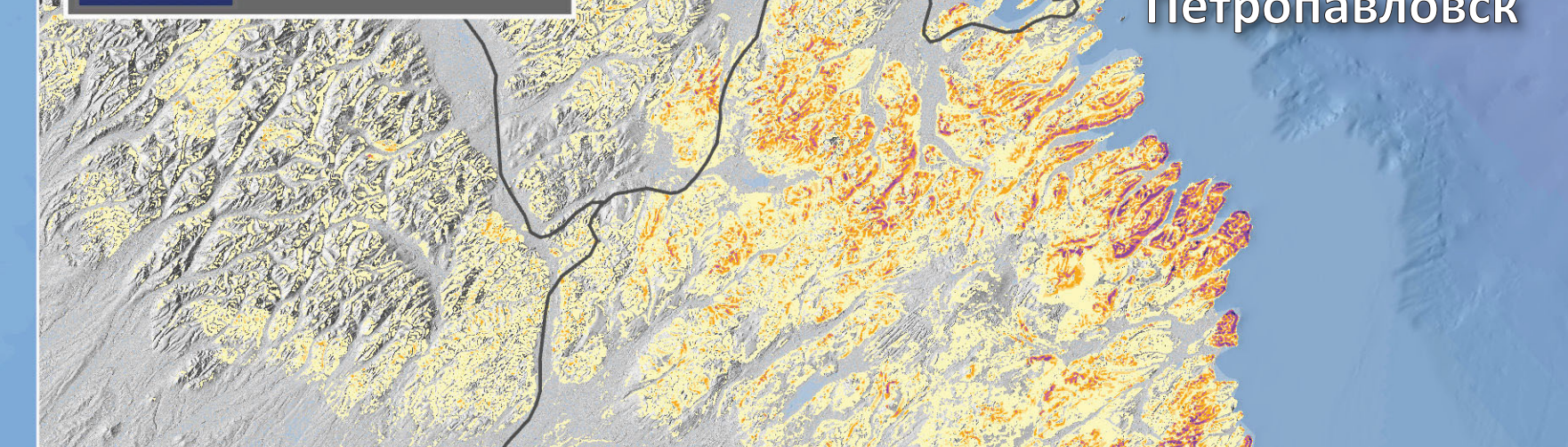
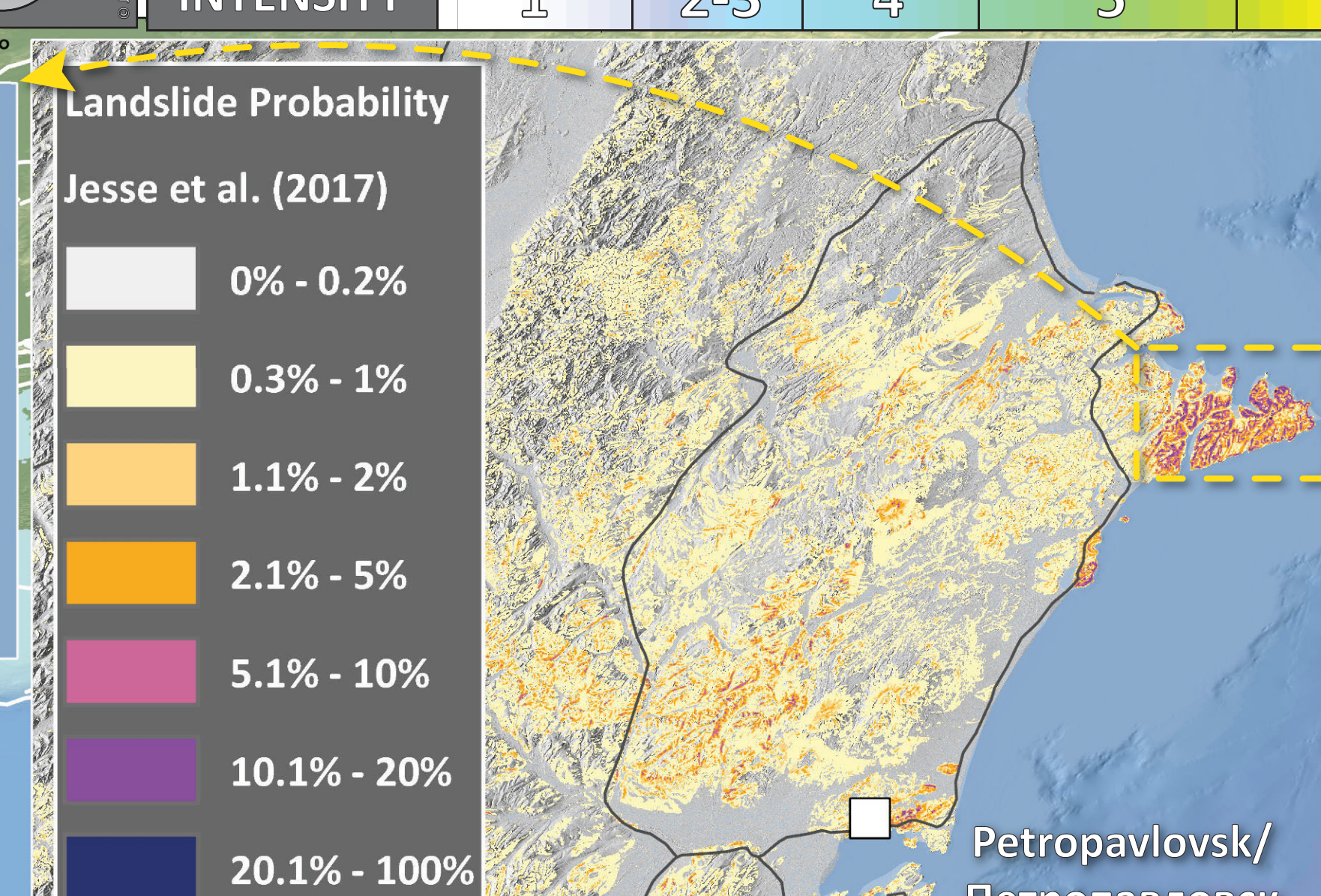
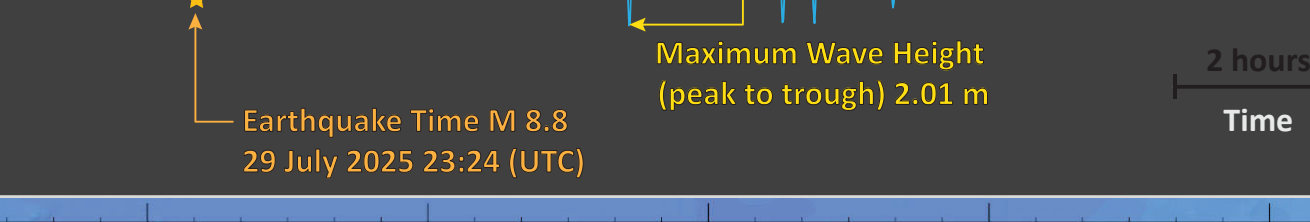
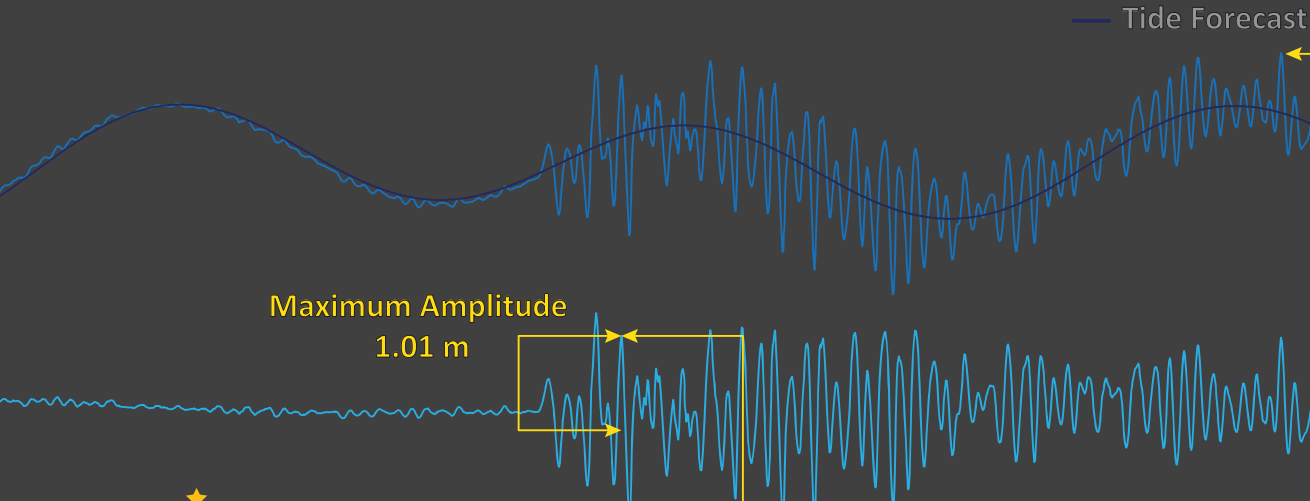
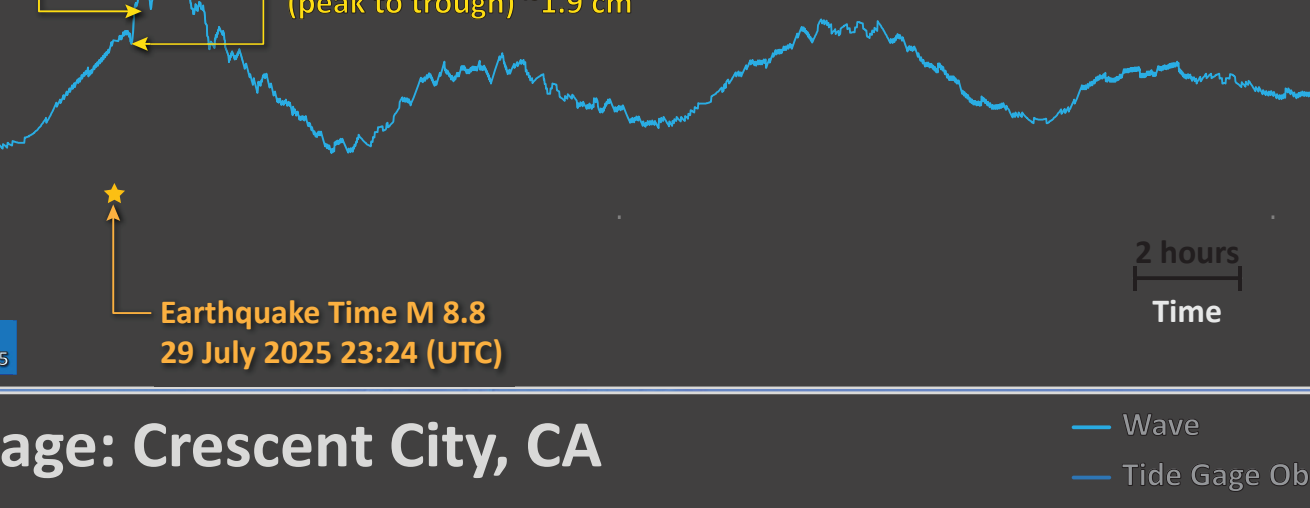
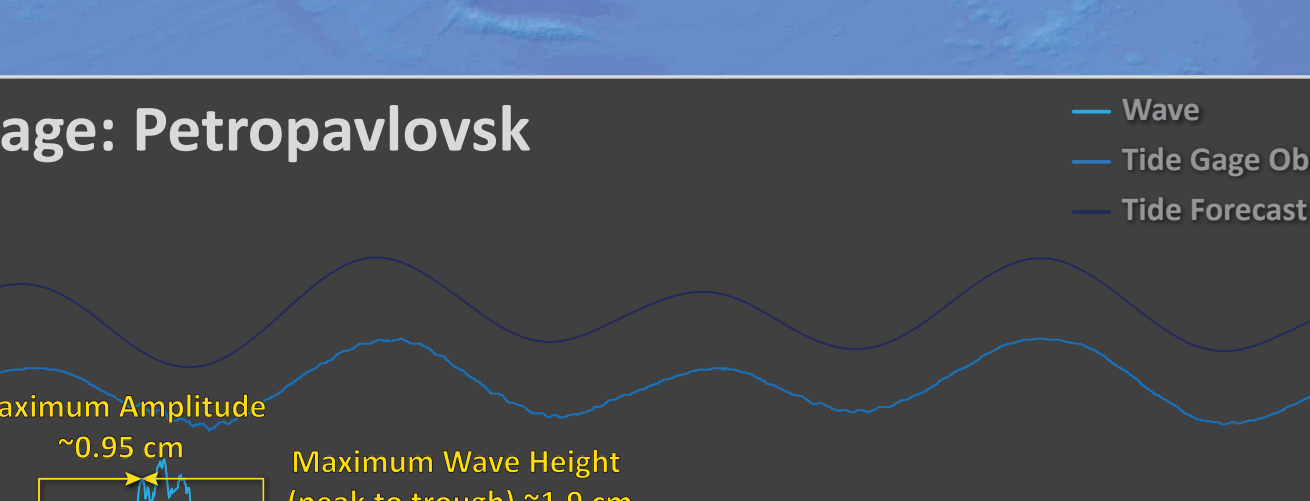
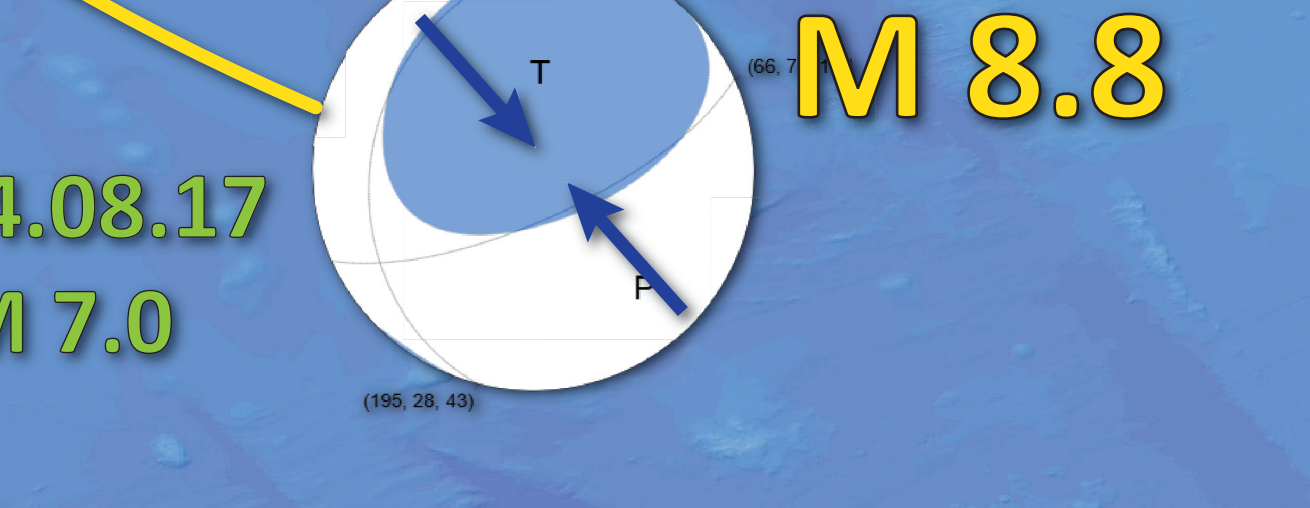
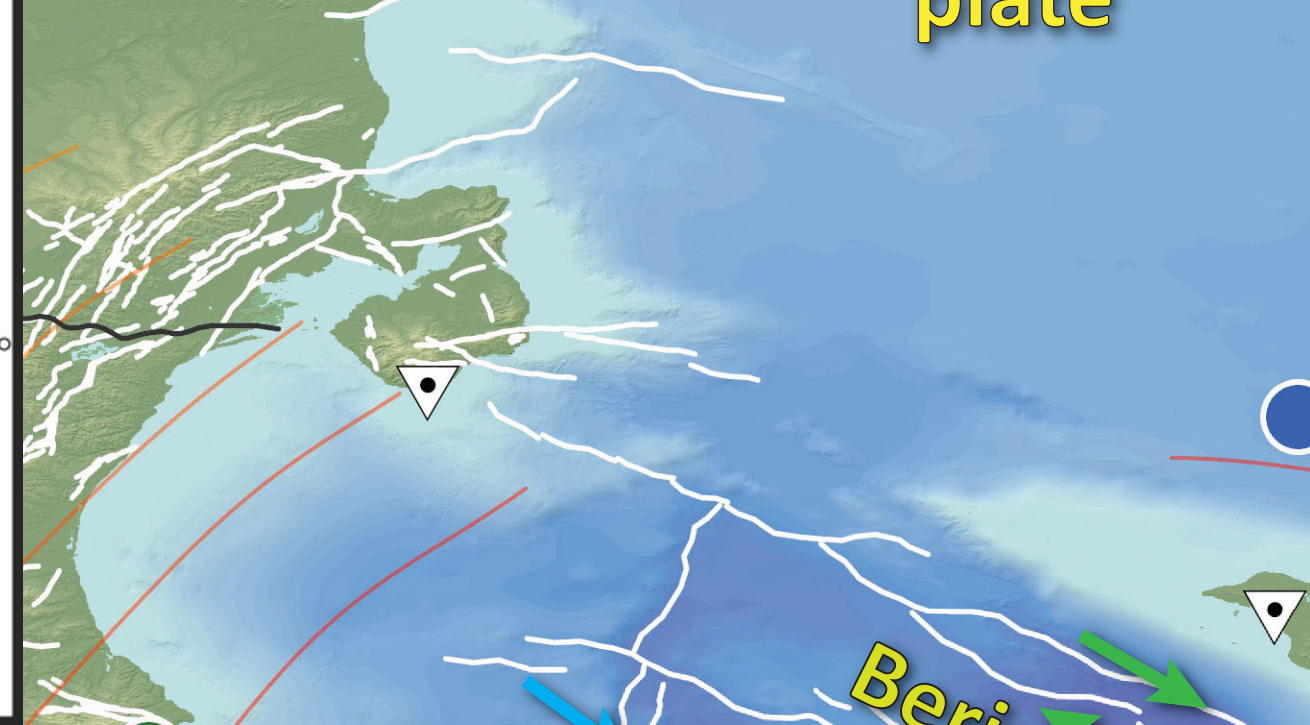
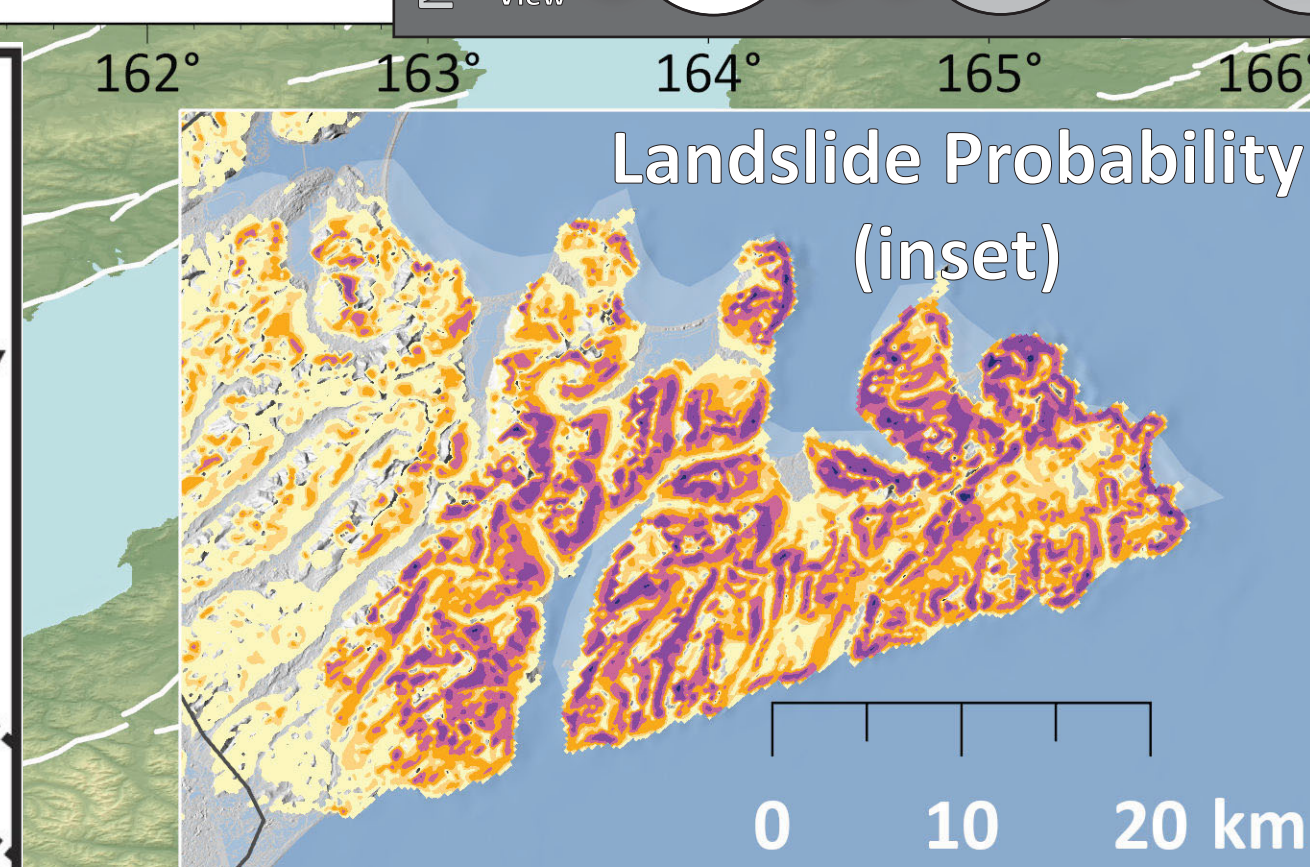
SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
PGV (cm/s)	<0.02	0.13	1.41	4.65	9.64	20	41.4	85.8	>178
INTENSITY	1	2-3	4	5	6	7	8	9	10



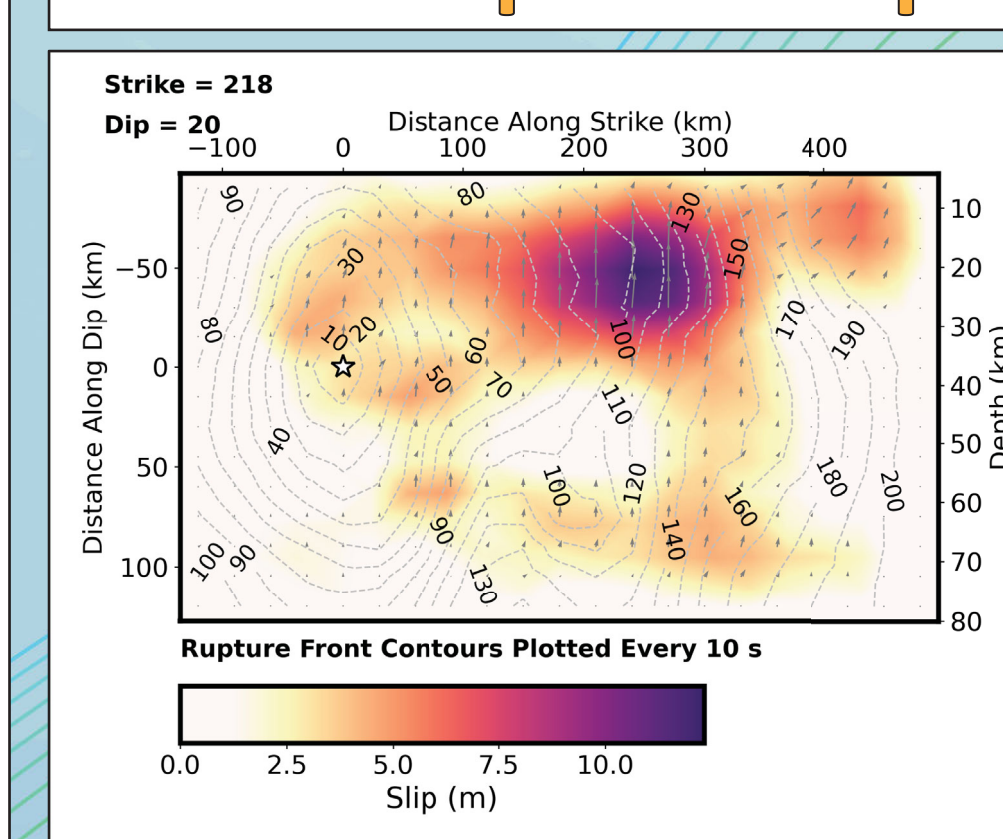
MacInnes et al., 2010



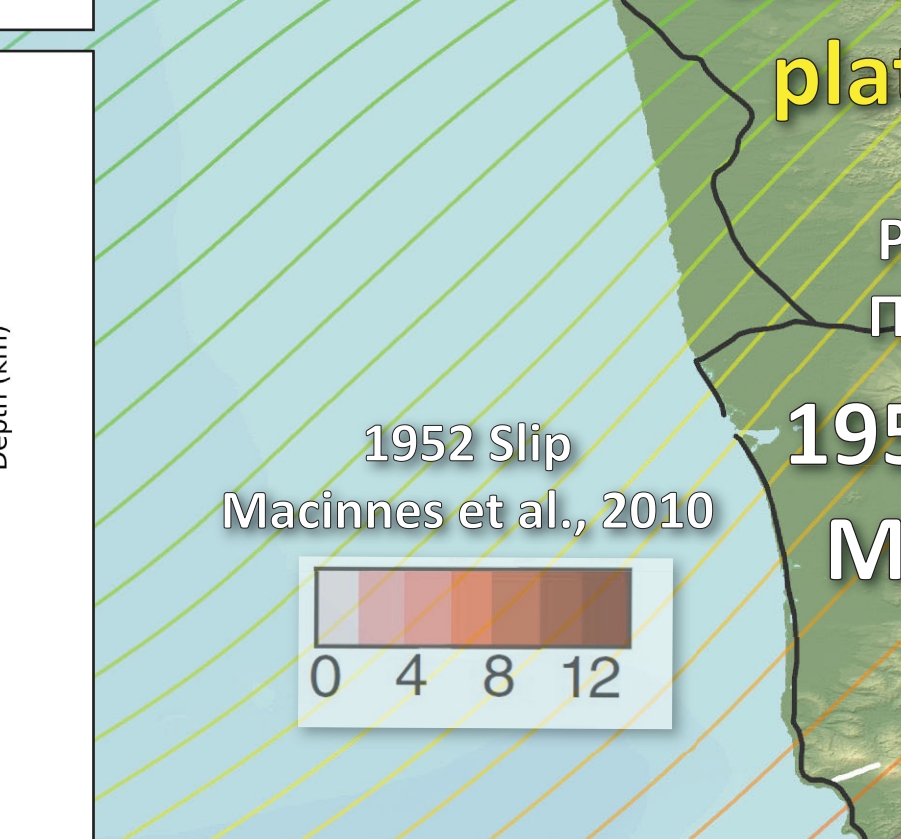
Portnyagin & Manea, 2008



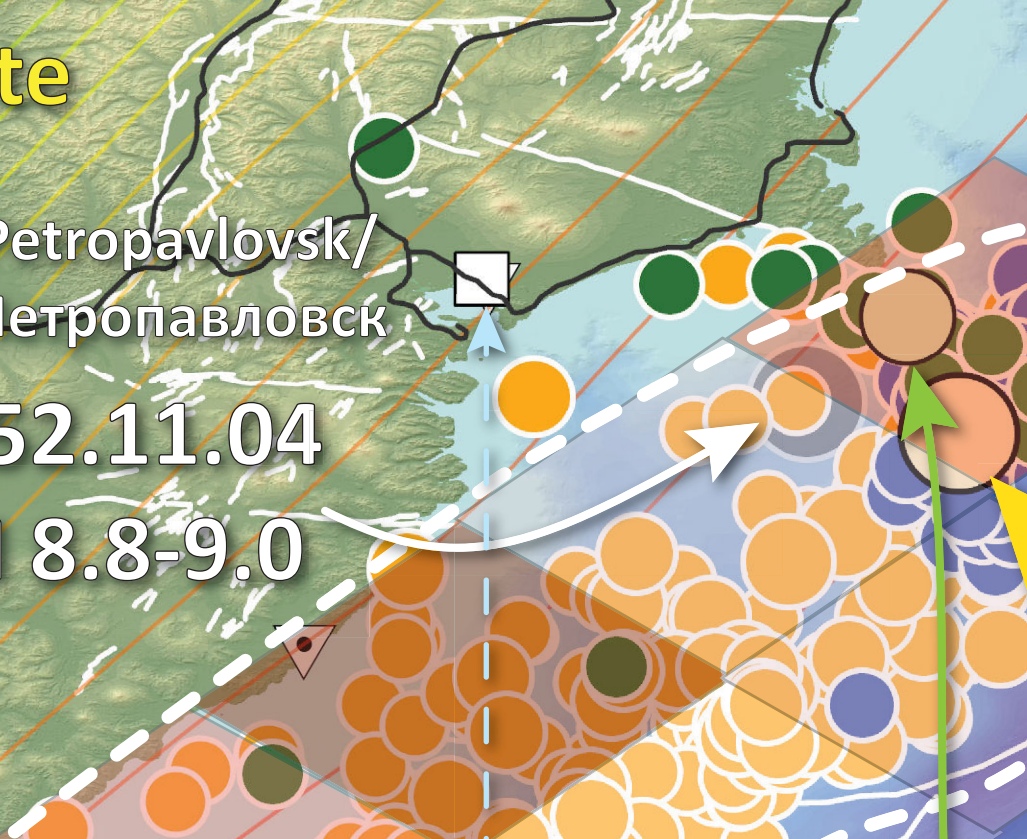
Earthquake Slip



M8.8 Aftershocks



Subsurface rupture length (km) derived earthquake magnitude estimates



Tide Gage: Petropavlovsk



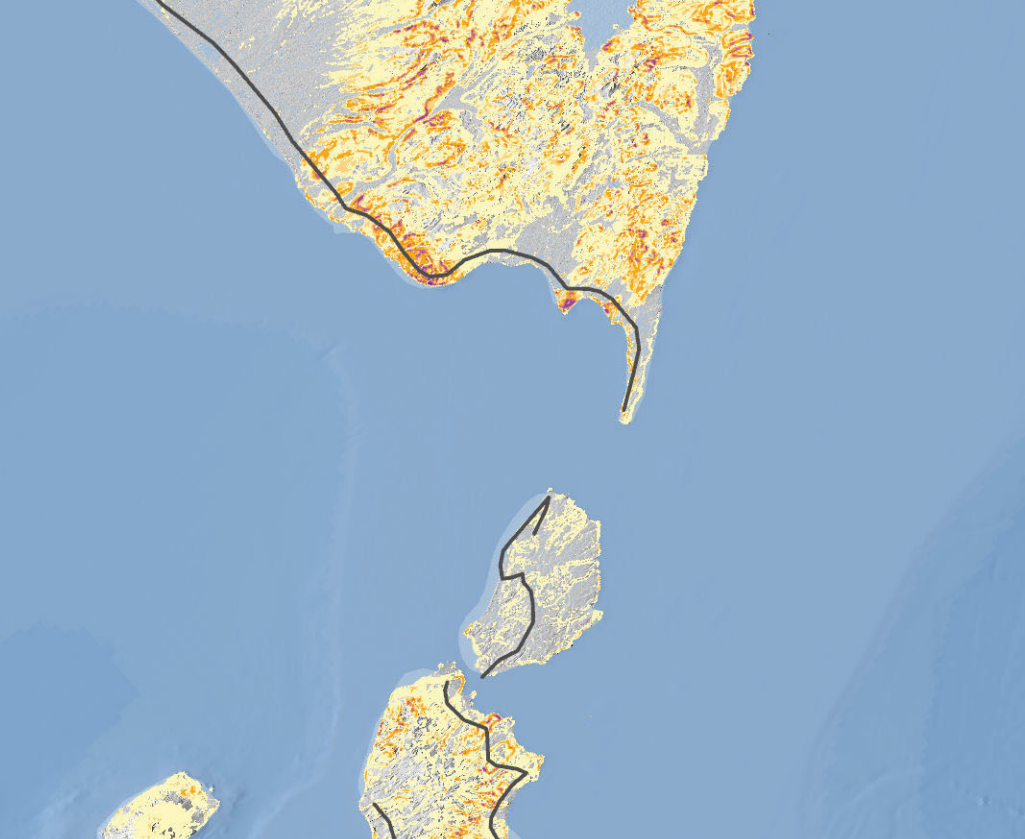
Tide Gage: Crescent City, CA



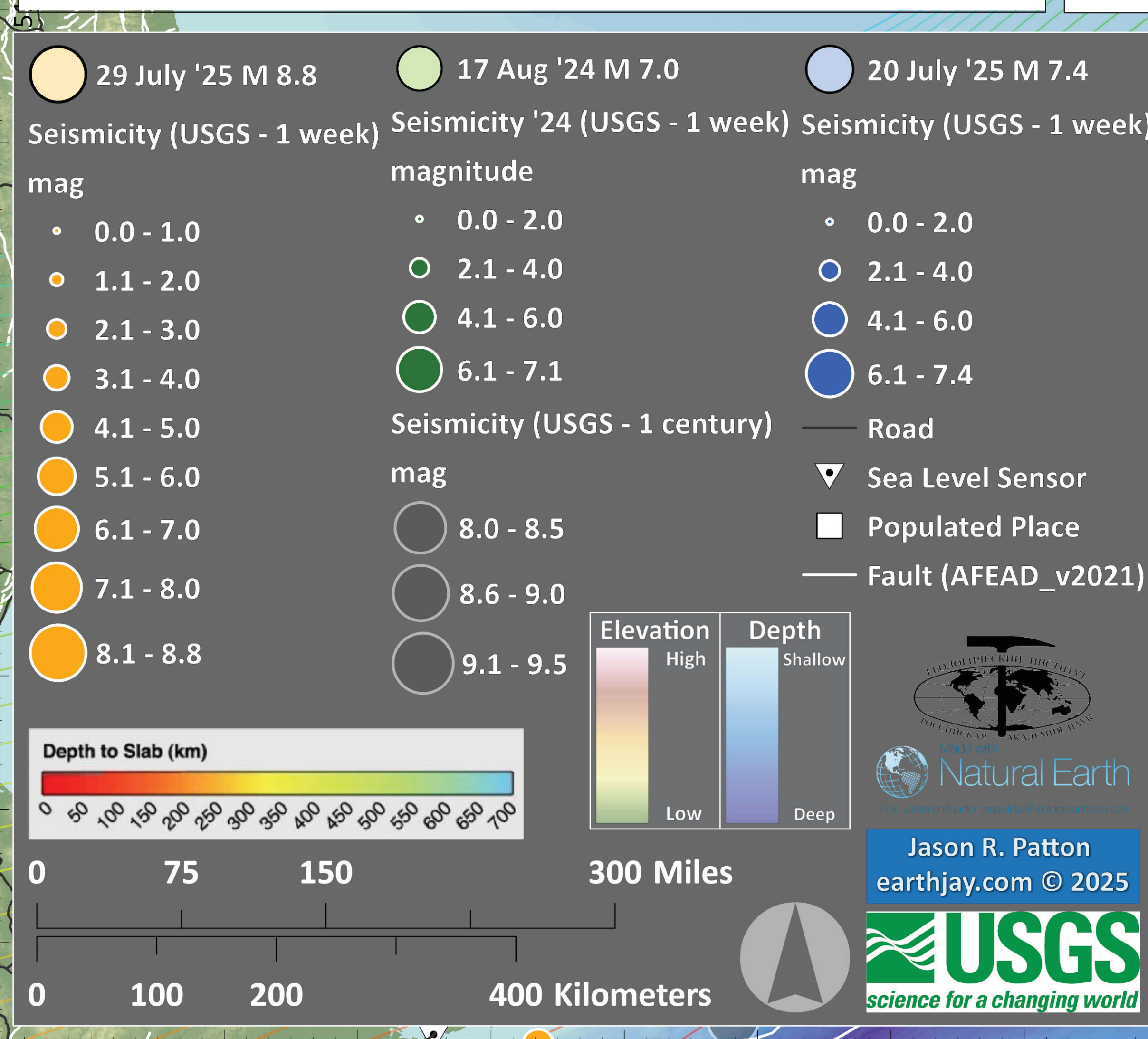
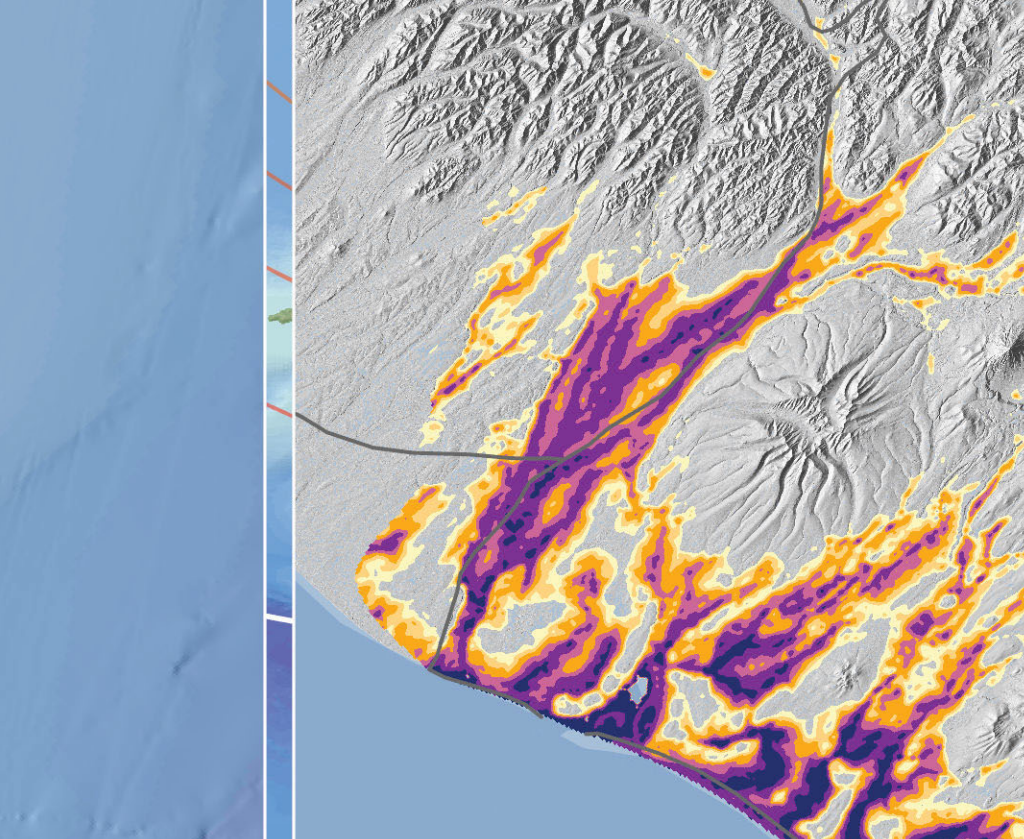
Intensity (USGS)



Ground Failure Models



Earthquake Intensity



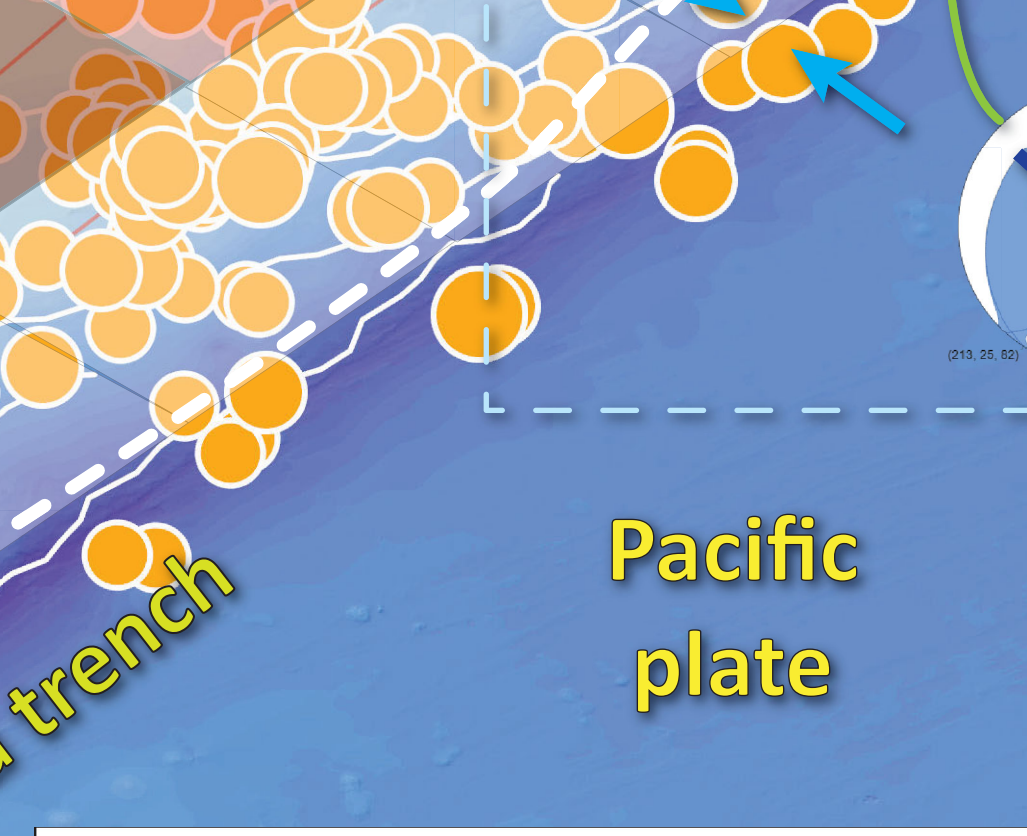
Topography: Ryan et al., 2009



Wells and Coppersmith (1994)



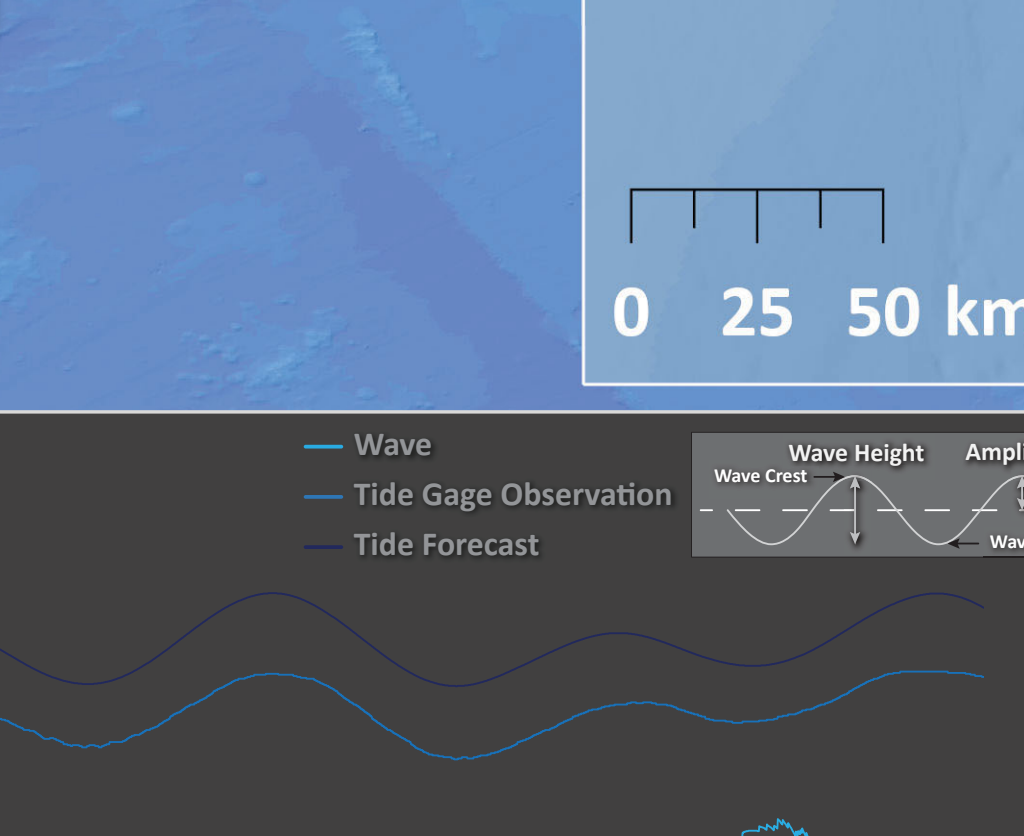
Observed Tsunami (M 8.8)



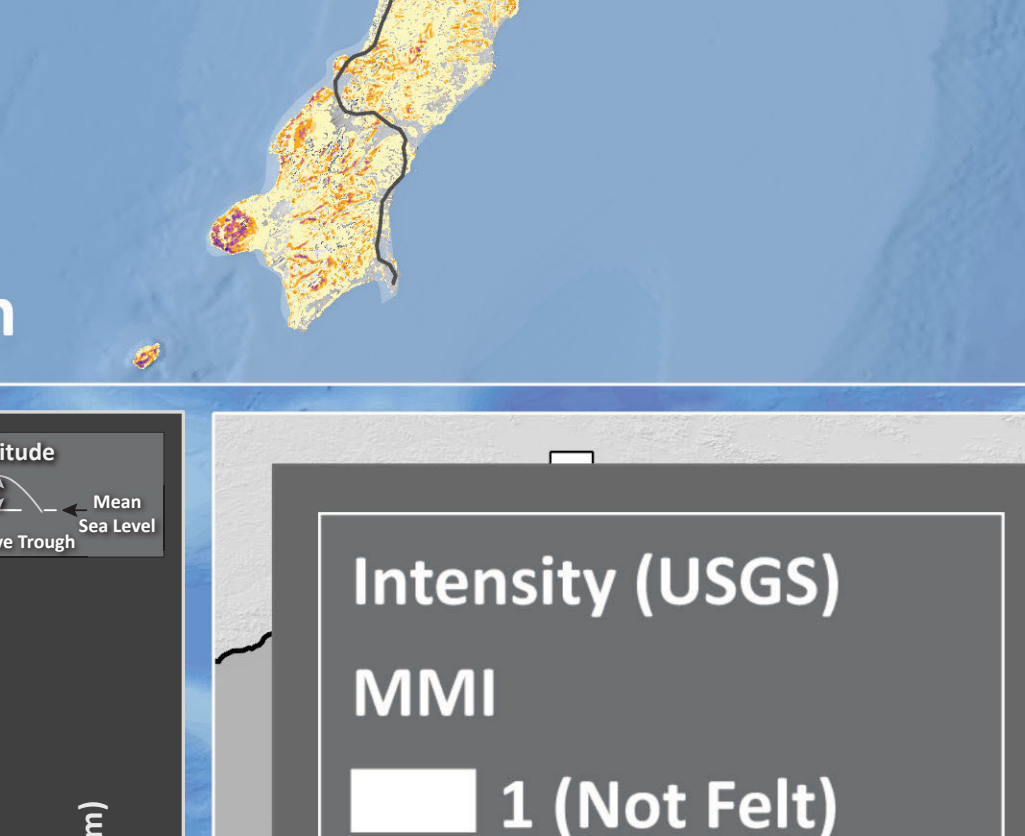
Observed Tsunami (M 8.8)



Observed Tsunami (M 8.8)



Observed Tsunami (M 8.8)



Observed Tsunami (M 8.8)



Observed Tsunami (M 8.8)

