Earthquake Report: 2018.12.20
M 7.4 Bering Kresla

Age of Oceanic Lithosphere [m.y.]

Total Intensity Anomaly (nT)

CIRES

Jason R. Patton
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USGS Google Earth

Depth to Slab (km)

Magnitude

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

Normal Fault | Thrust Fault | Strike-Slip Fault

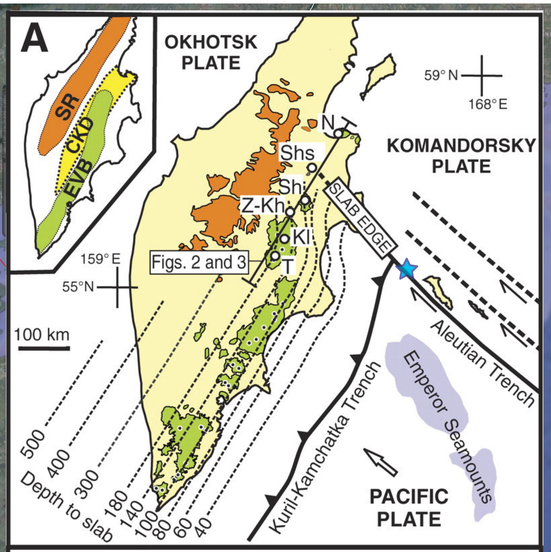
Top View / Side View

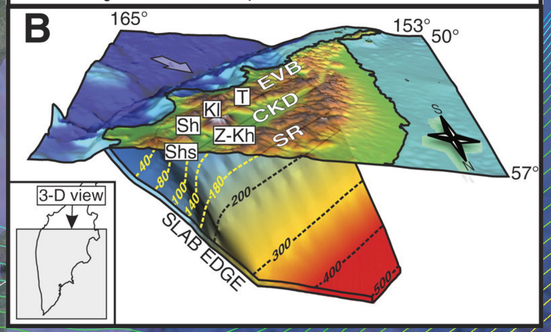
Plate Boundaries: Divergent, Transform, Convergent, Other

Plate Motion

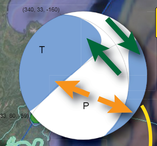
INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Damage	None	None	None	Very slight	Light	Moderate	Moderate/ heavy	Heavy	Very heavy
Peak Acc	<0.17	0.17-1.4	1.4-3.9	3.9-9.2	9.2-18	18-34	34-65	65-124	>124
Peak Vel	<0.1	0.1- 1.1	1.1- 3.4	3.4- 8.1	8.1- 16	16 - 31	31- 60	60-116	>116

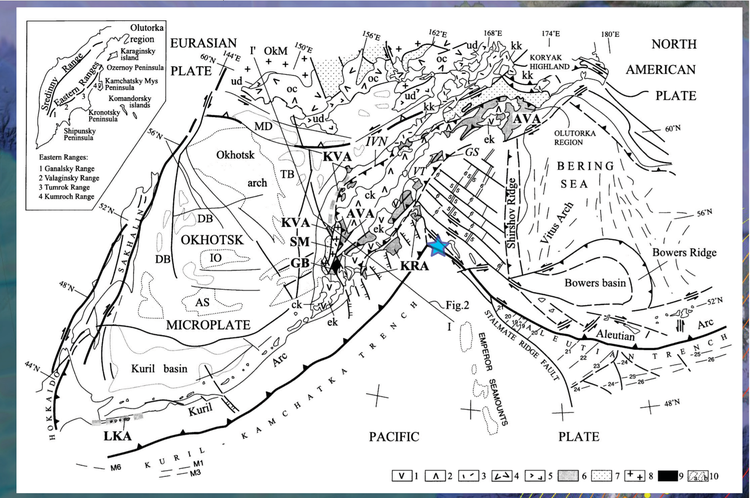
Peak Acc = Peak ground acceleration (g), Peak Vel = Peak ground velocity (cm/s)



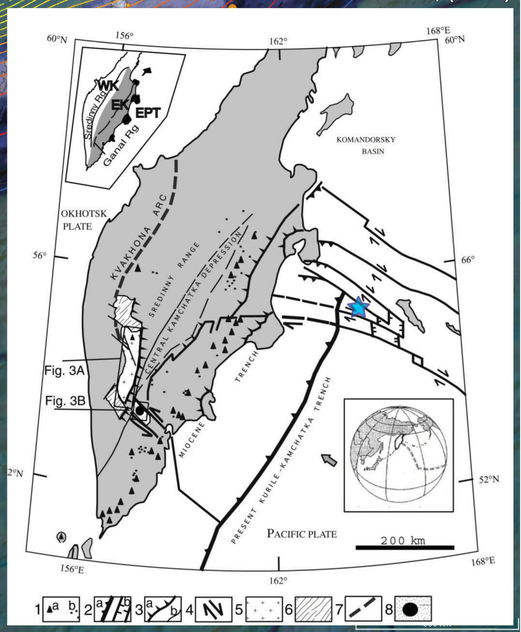


Portnyagin & Manea (2008)





Konstantinovskaia (2001)



Bindeman et al., (2002)

North America plate

Okhotsk plate

Pacific plate

Shirshov Ridge

Bowers Ridge

Bering-Kresla Shear Zone

Kuril/Kamchatka Trench

Emperor Seamount Chain

Aleutian Trench

PA-OK

PA-NA

300 km

N

Google Earth