Earthquake Report: 2018.01.23

M 7.9 Gulf of Alaska (& USGS Seismicity 1918-2018 M ≥ 5.5)

CIRES

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USGS Google Earth

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)

Magnitude: 8 7 6 5 4 3 2 1

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

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 the Pacific plate pole (Euler)

Normal Fault, Thrust Fault, Strike-Slip Fault (Top View / Side View)

Total Intensity Anomaly (nT): -200 -150 -100 -50 0 50 100 150 200

North America plate

Pacific plate

Kodiak Isle.

Alaska Trench

Surveyor Channel

Kodiak-Bowie Seamount Chain

Alternate fault

USGS fault

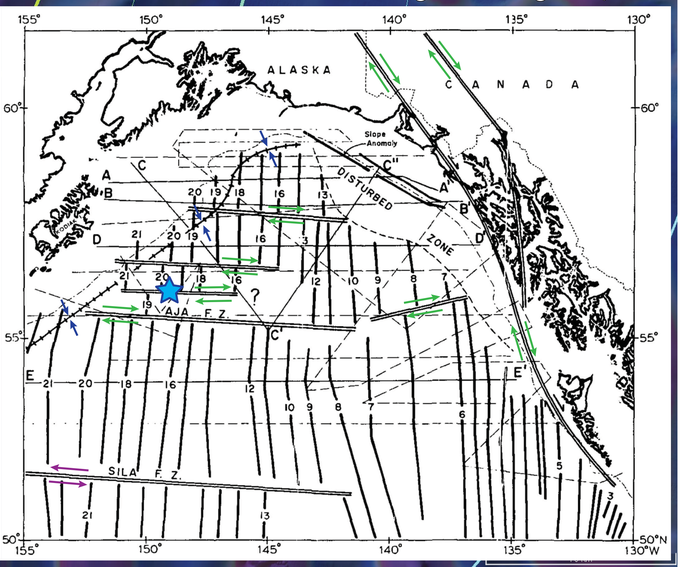
Fault Surface

1999.01.16
M 6.0

1988.03.06
M 7.8

2018.01.23
M 7.9

Naugler and Wageman, 1973



100 km

N

Google Earth