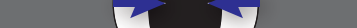
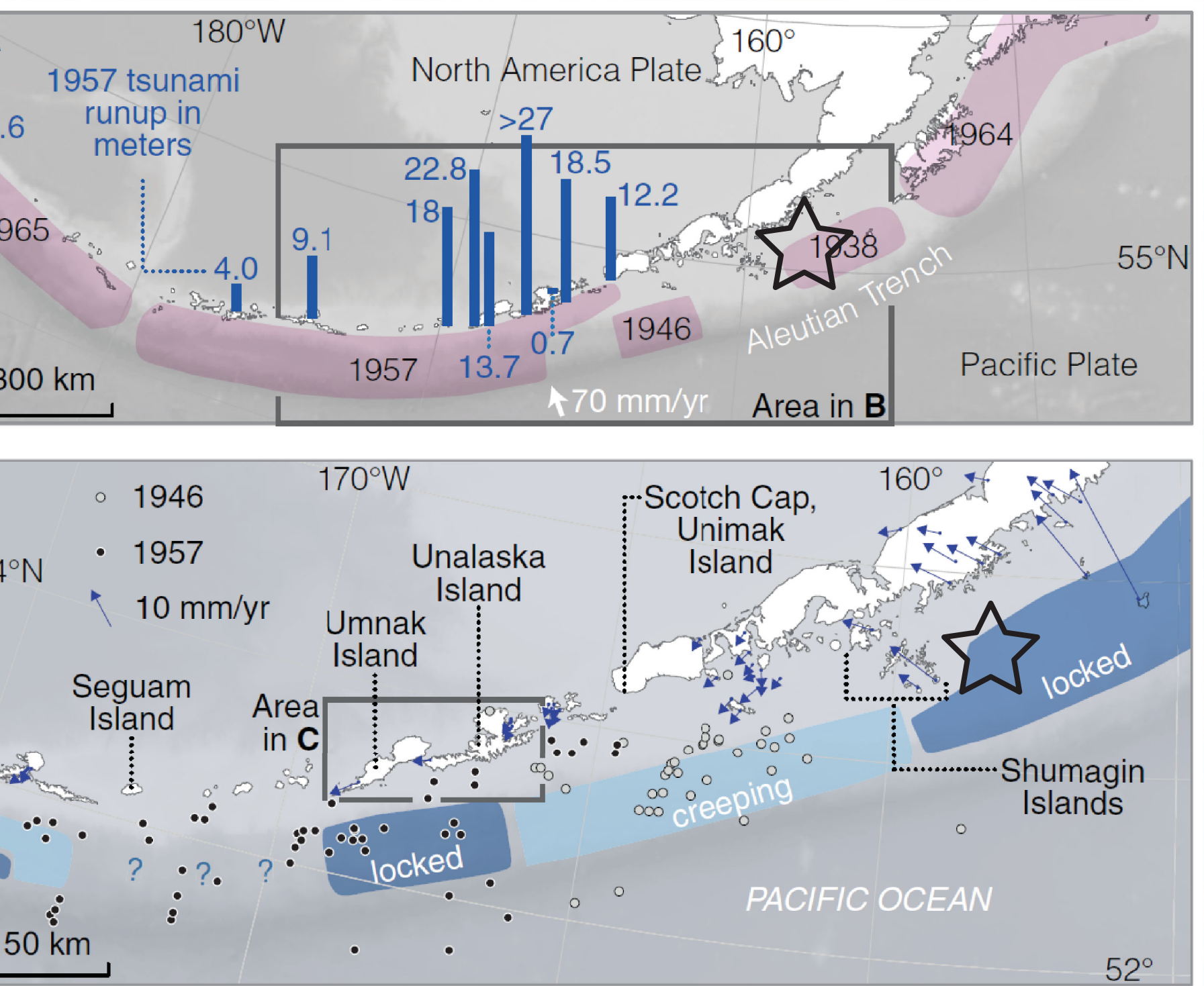


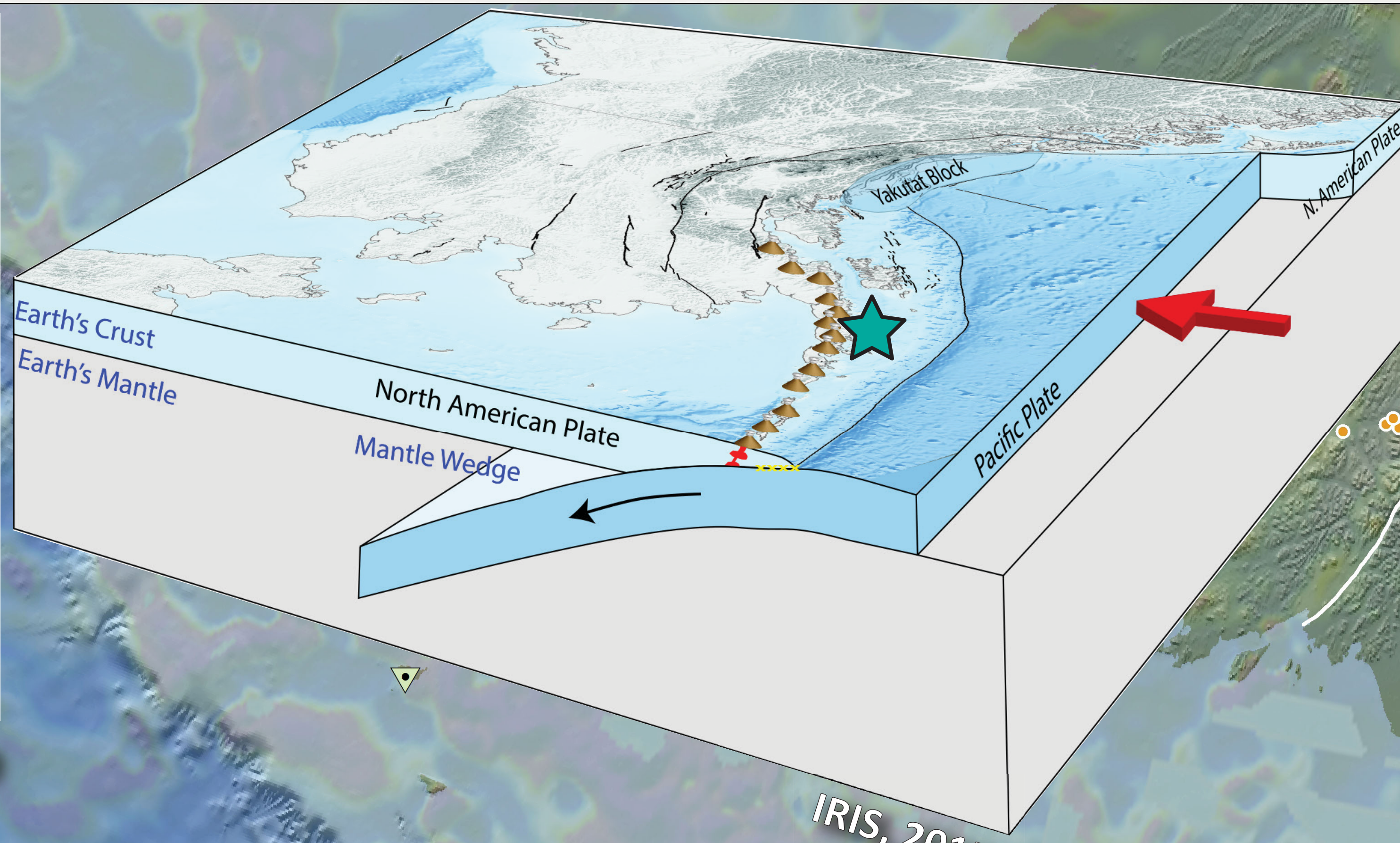
Earthquake Report: 2021.07.29

M 8.2 offshore of Alaska (& USGS Seismicity 1921-2021 M ≥ 7.5)

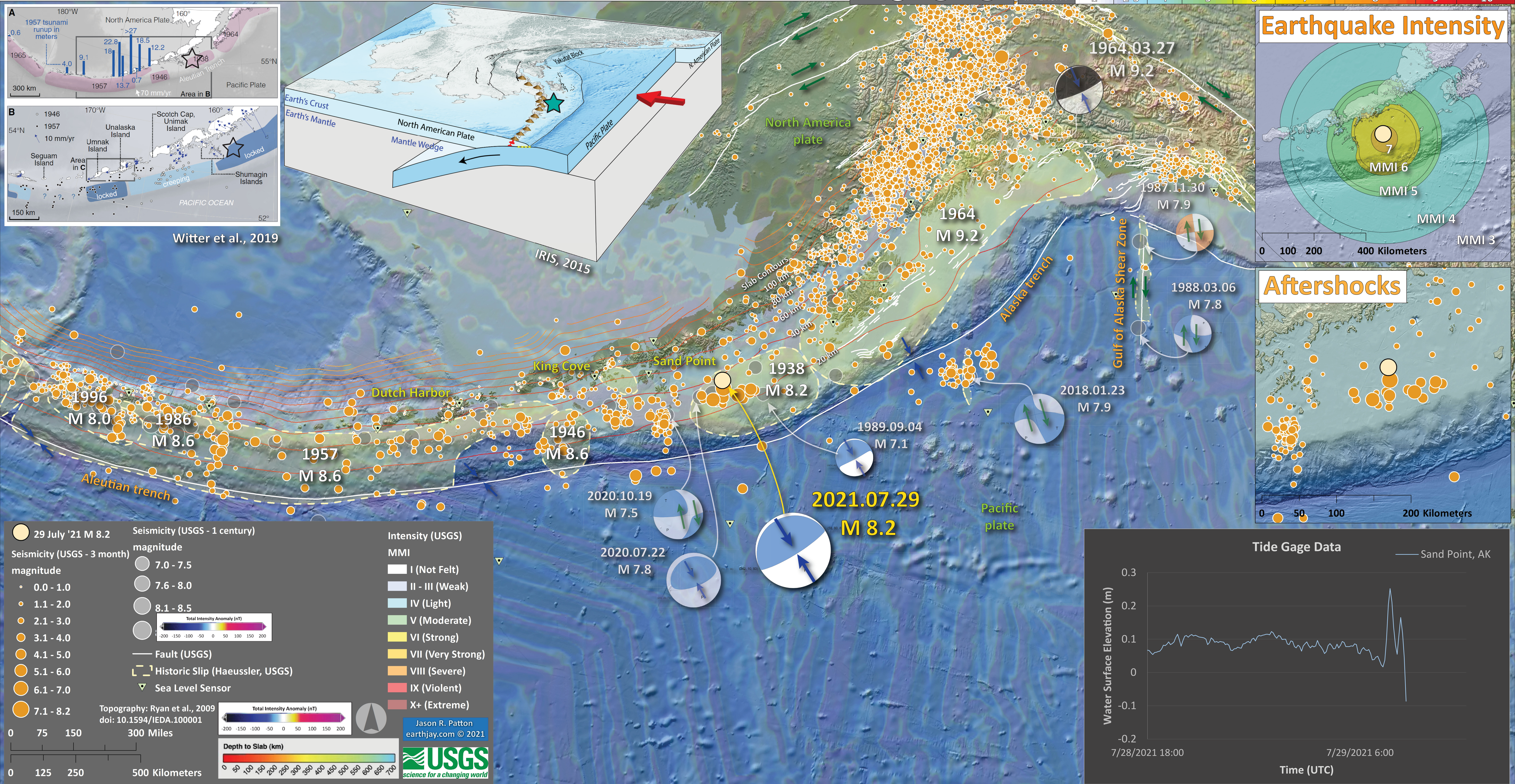
Mechanism Types	Normal Fault	Thrust Fault	Strike-Slip Fault	SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
				DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
				PGA (%)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
				PGV (cm/s)	<0.02	0.13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



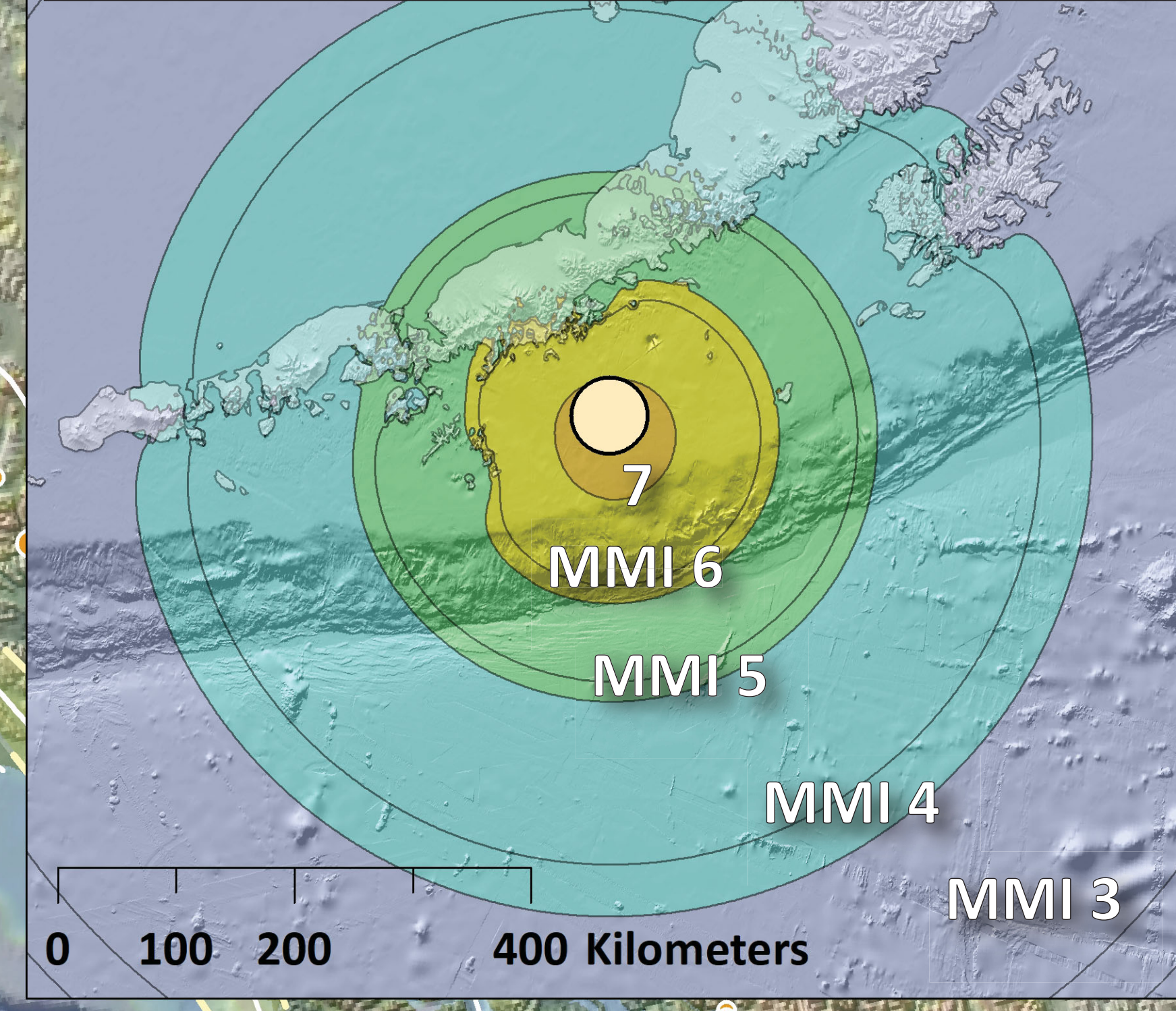
Witter et al., 2019



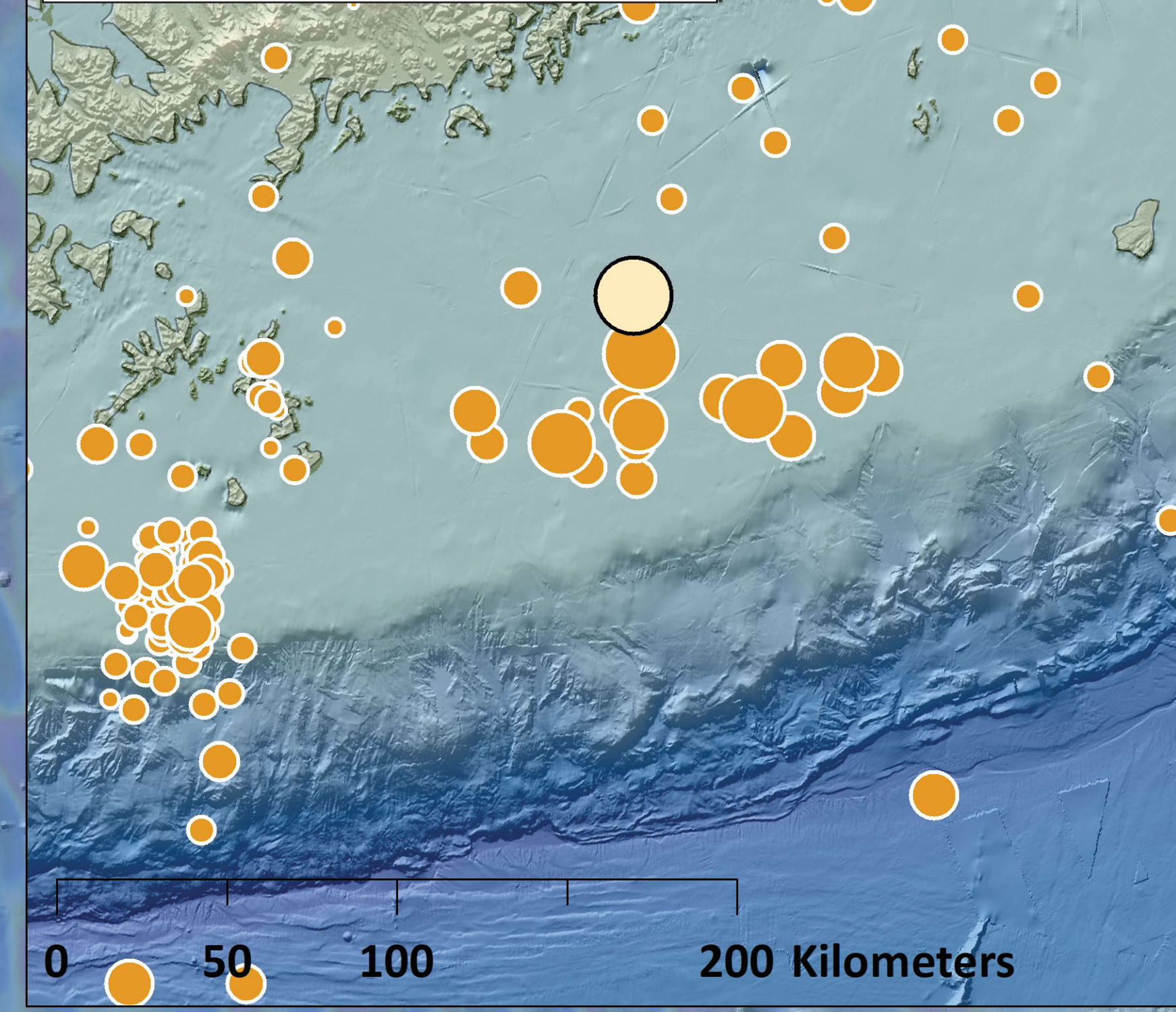
IRIS, 2015



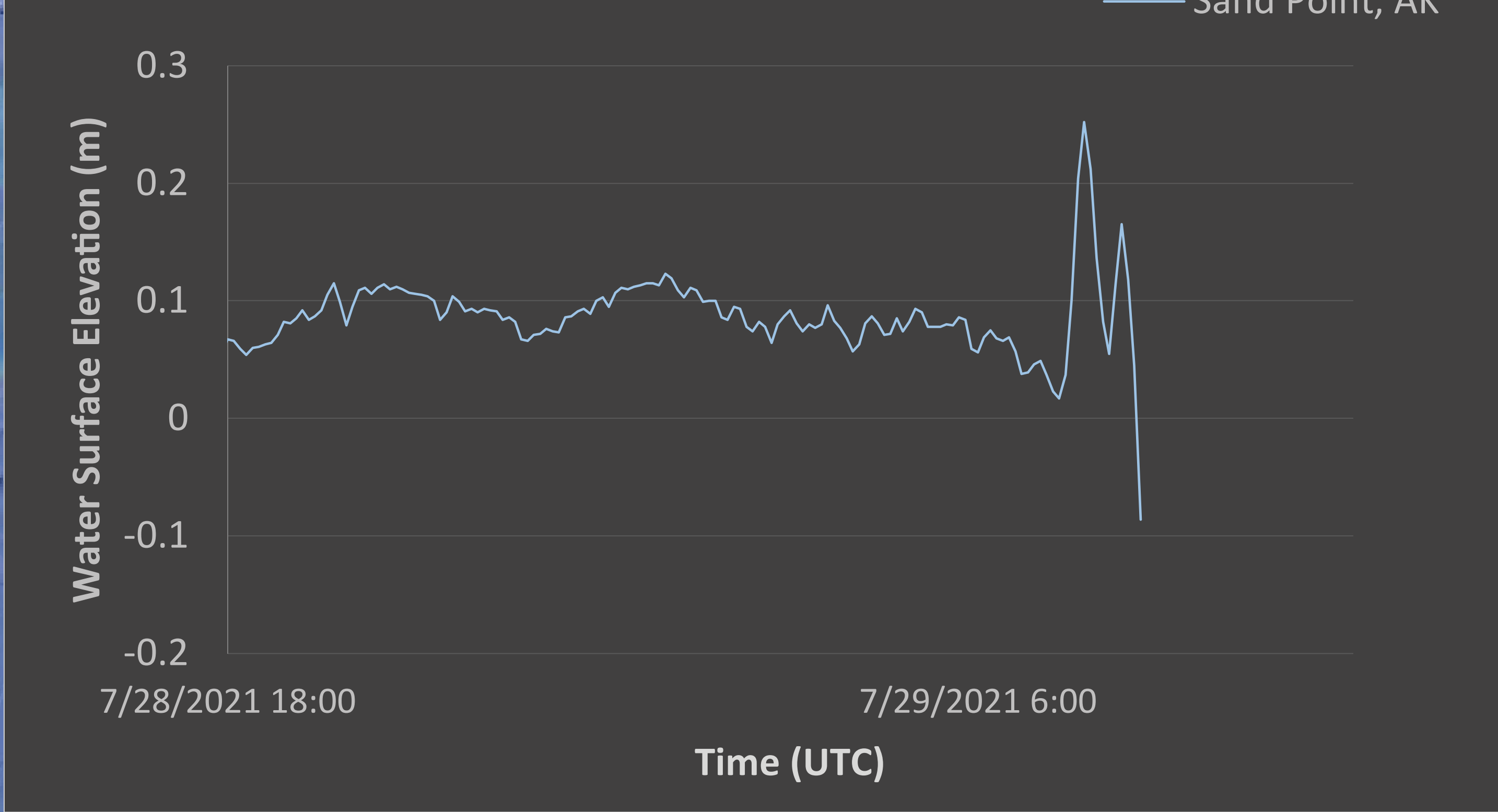
Earthquake Intensity



Aftershocks



Tide Gage Data



● 29 July '21 M 8.2

Seismicity (USGS - 3 month) 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 - 8.2

Seismicity (USGS - 1 century) magnitude

- 7.0 - 7.5
- 7.6 - 8.0
- 8.1 - 8.5

Intensity (USGS) MMI

- I (Not Felt)
- II - III (Weak)
- IV (Light)
- V (Moderate)
- VI (Strong)
- VII (Very Strong)
- VIII (Severe)
- IX (Violent)
- X+ (Extreme)

— Fault (USGS)

— Historic Slip (Haeussler, USGS)

▼ Sea Level Sensor

Topography: Ryan et al., 2009 doi: 10.1594/IEDA.100001

0 75 150 300 Miles

0 125 250 500 Kilometers

Total Intensity Anomaly (nT)

Depth to Slab (km)

USGS science for a changing world

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