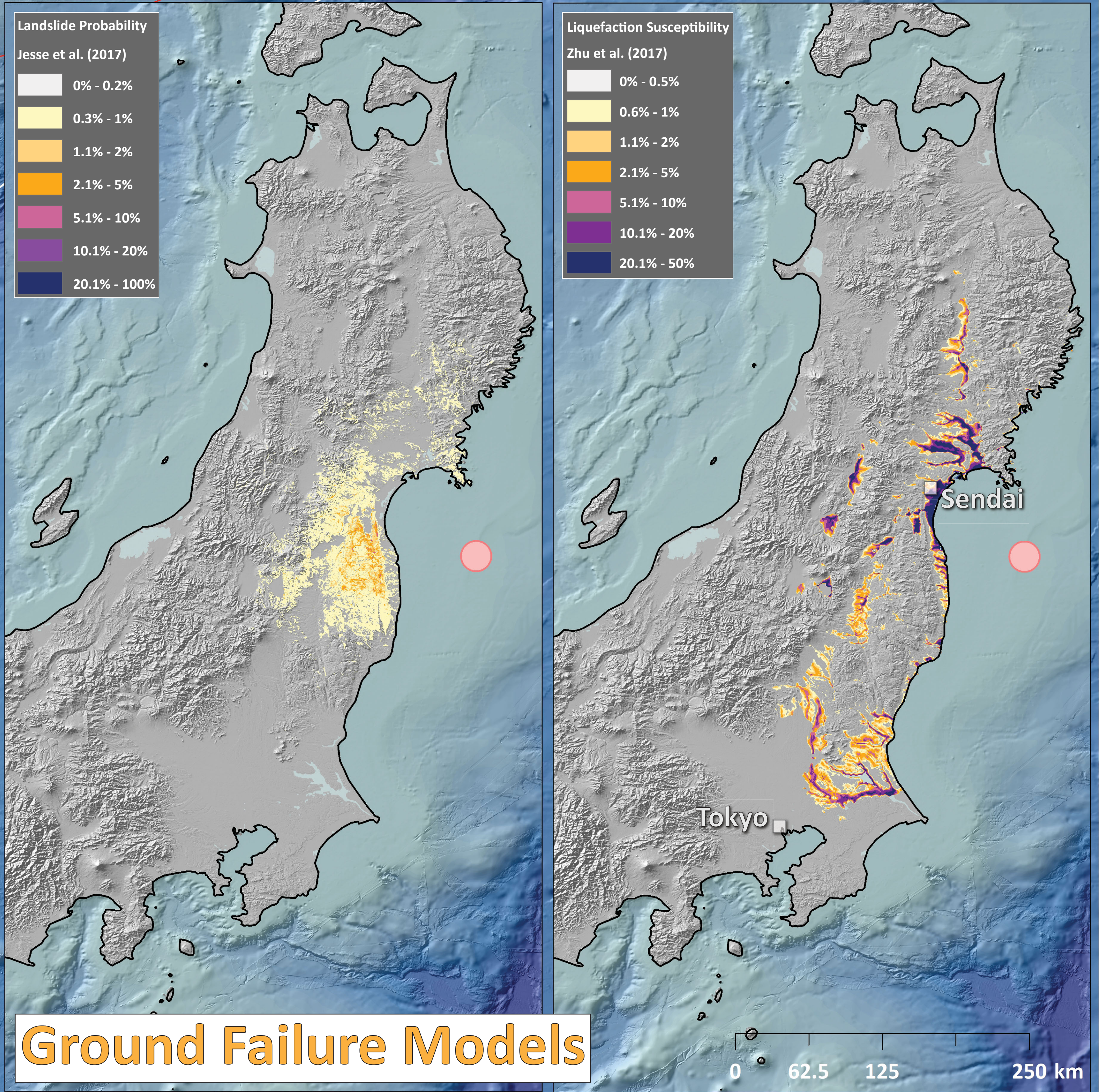
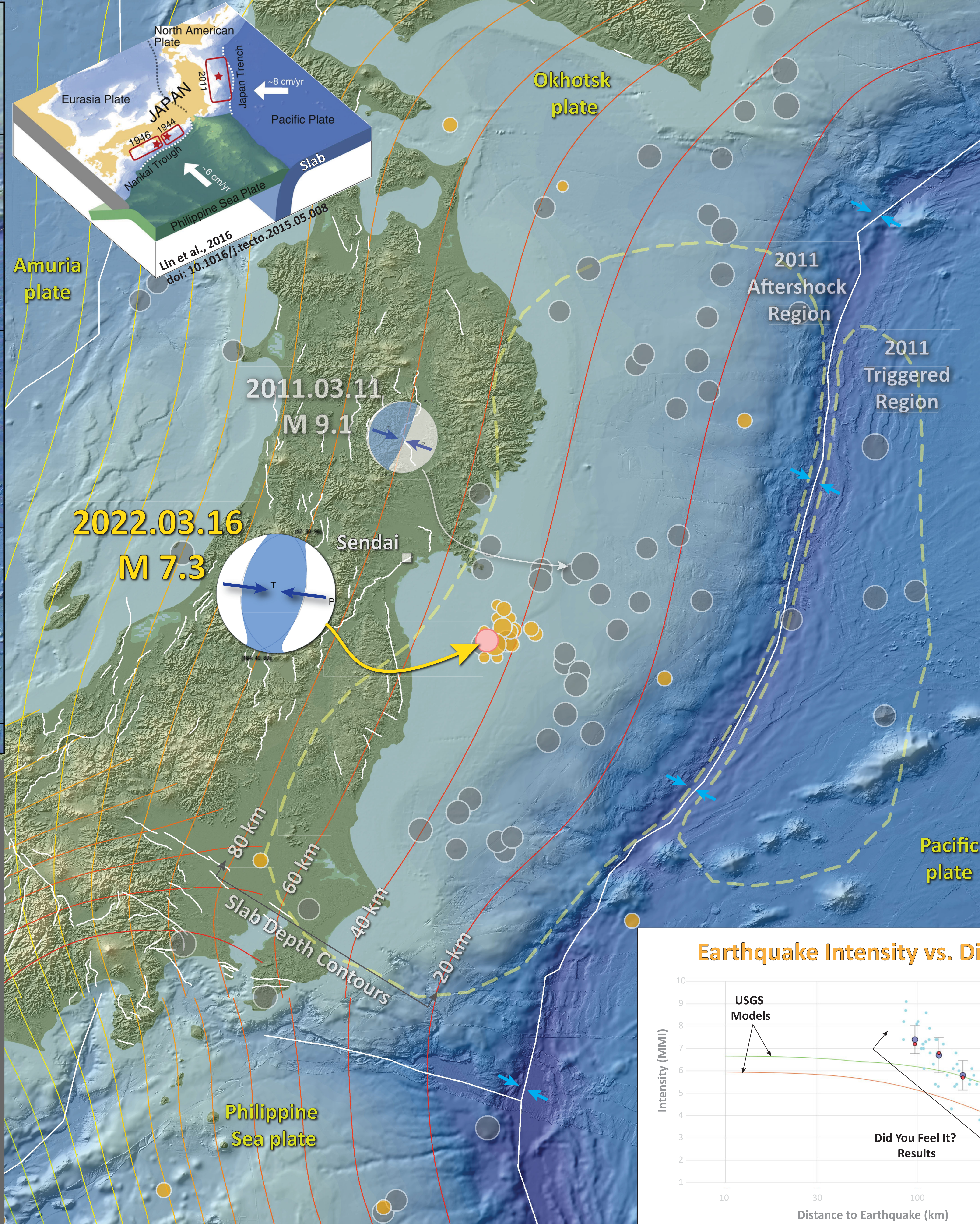
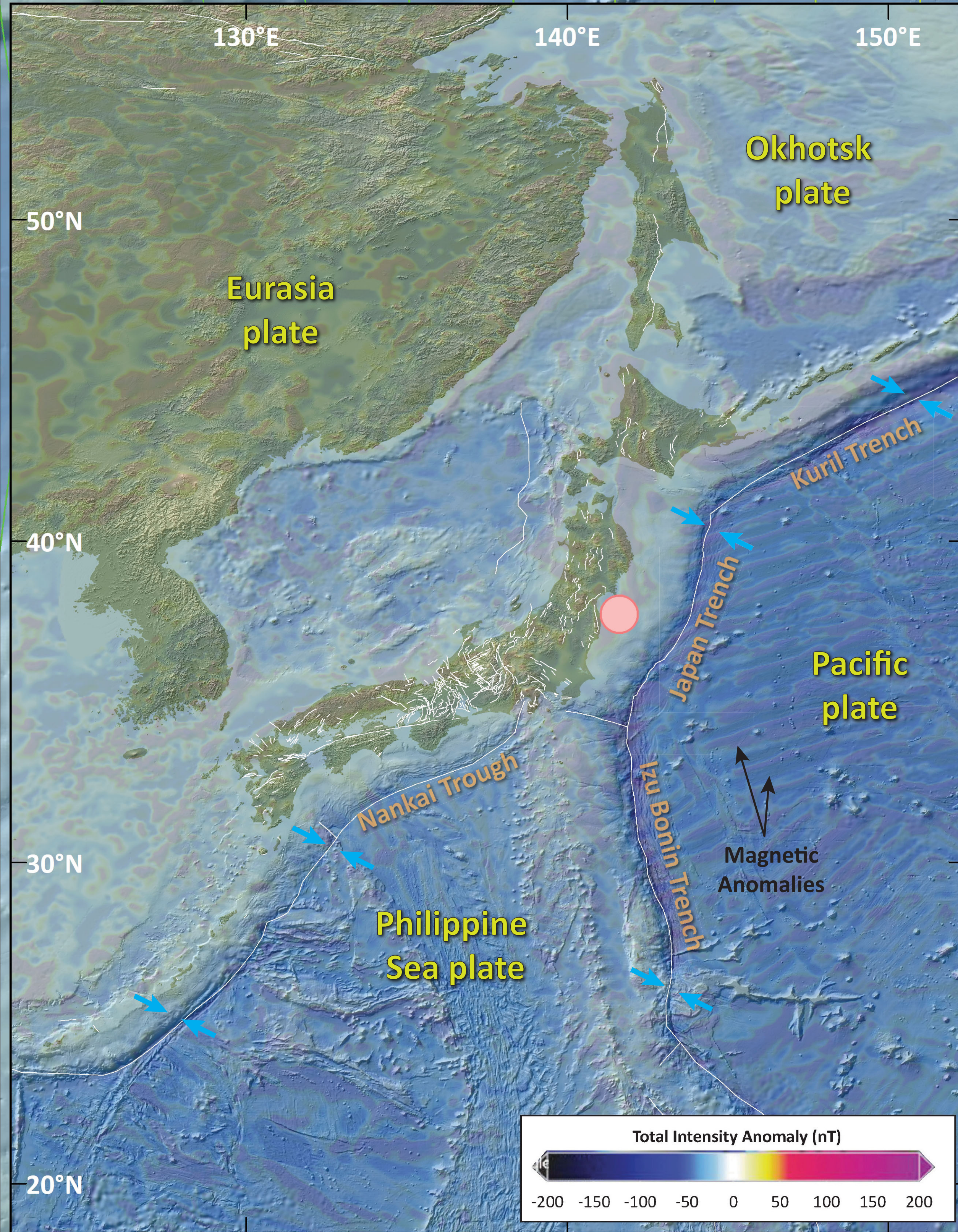


Earthquake Report: 2021.03.16

M 7.3 Japan (& USGS Seismicity 1922-2022 M ≥ 7.0)

Elevation	Depth	Mechanism Types	SHAKING	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
High	Shallow	Normal Fault	DAMAGE	Note	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
Low	Deep	Thrust Fault	PGA (%g)	<0.05	0.3	2.76	6.2	11.5	21.5	40.1	74.7	>139
		Strike-Slip Fault	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



16 Mar '22 M 7.3 (EMSC)

Seismicity (1 week - EMSC) magnitude

- 2.5 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.3

Seismicity (1 century - USGS) magnitude

- 7.0 - 7.5
- 7.6 - 8.0
- 8.1 - 8.5
- 8.6 - 9.1

Fault — GEM

Topography: Ryan et al., 2009 doi:10.1029/2008GC002332.

Depth to Slab (km)

0 37.5 75 150 Miles

0 125 250 500 Kilometers

CSEM
EMSC

GEM
GLOBAL EARTHQUAKE MODEL
working together to assess risk

Jason R. Patton
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