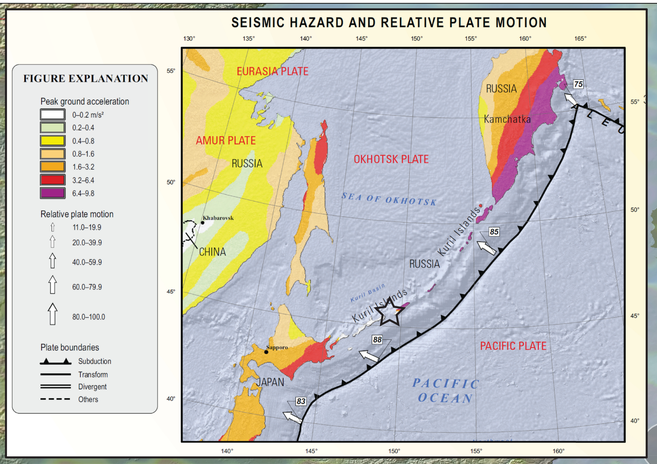
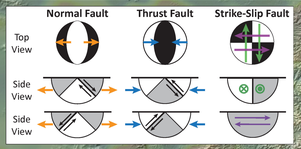
Earthquake Report: 2020.02.13

M 6.9 Kurile (& USGS Seismicity 1920-2020 M ≥ 6.5)



Rhea et al., 2010



2020.02.13 M 6.9

Seismicity (USGS 3 months)
Magnitude
0.0 - 2.0
2.1 - 3.0
3.1 - 4.0
4.1 - 5.0
5.1 - 6.0
6.1 - 6.9

Seismicity (USGS 1 century)
Magnitude
6.5 - 7.0
7.1 - 7.5
7.6 - 8.0
8.1 - 8.5
8.6 - 9.1

Fault
GEM

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

Depth to Slab (km)
0 50 100 150 200 250 300 350 400 450 500 550 600 650 700

Elevation: GMRT - Ryan et al. (2009)
Faults: Global Earthquake Model (GEM)

0 50 100 200 Miles
0 75 150 300 Kilometers

GEM GLOBAL EARTHQUAKE MODEL working together to assess risk

Jason R. Patton
earthjay.com © 2020

USGS science for a changing world

Okhotsk plate

Kamchatka

Pacific plate

Hokkaido

Japan Trench

Kurile-Kamchatka Trench

2012.08.14
M 7.7

2002.11.17
M 7.3

2020.02.13
M 6.9

1952.11.04
M 9.0

1994.10.16
M 6.7

2013.04.19
M 7.2

2006.11.15
M 8.3

2007.01.13
M 8.1

1994.10.04
M 8.3

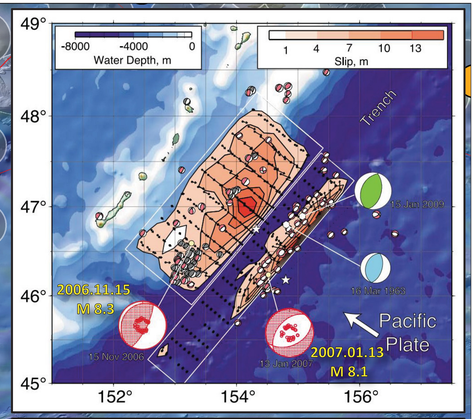
2011.03.11
M 9.0

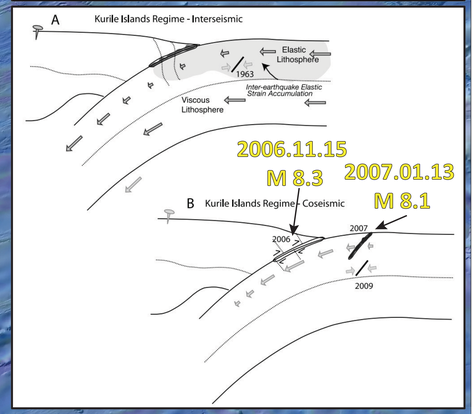
A

A'

420 km

120 km
100 km
80 km
60 km
40 km
20 km





Lay et al., 2009

Rhea et al., 2010

