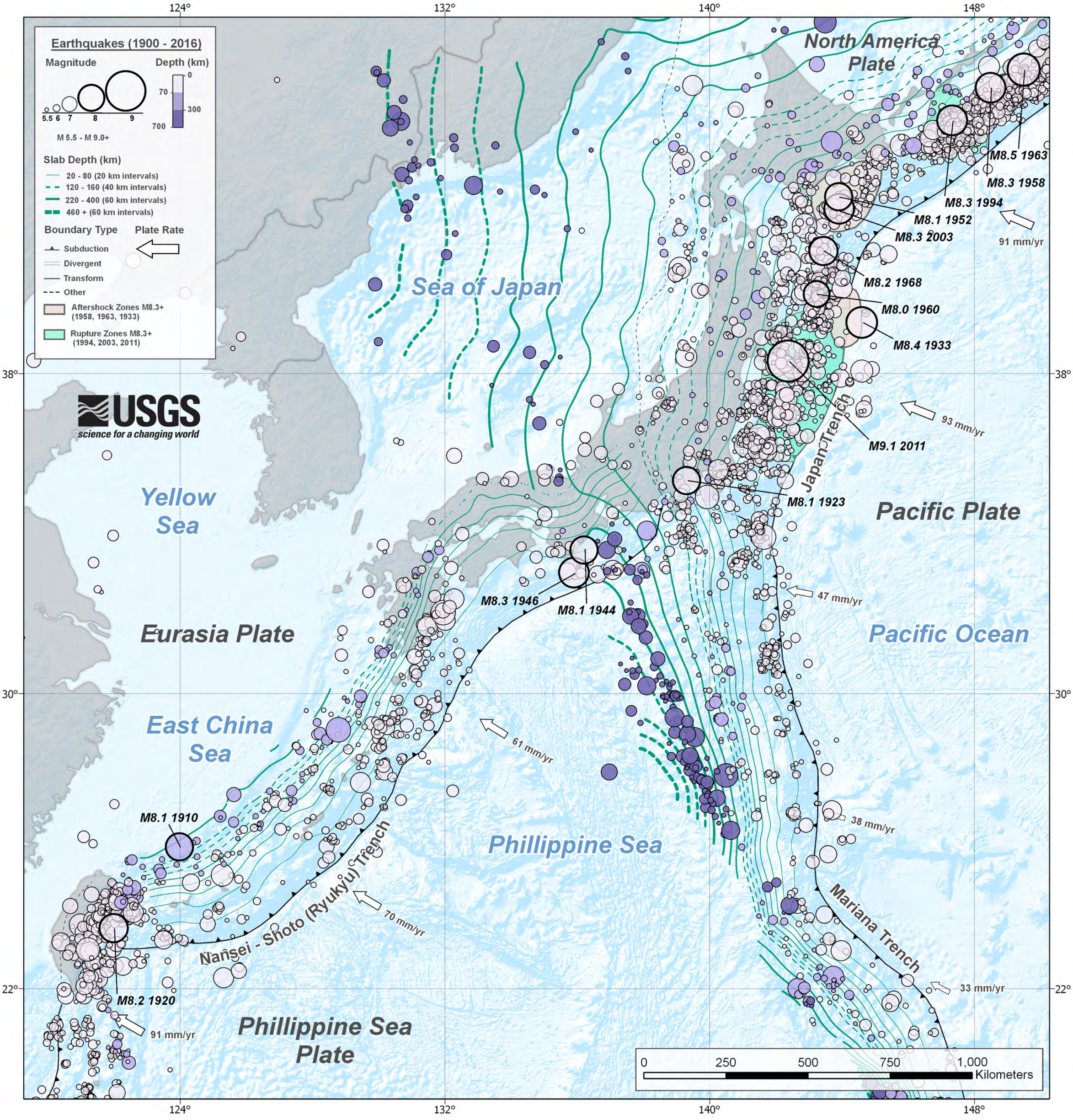
Earthquakes (1900 - 2016)
Magnitude
5.5 6 7 8 9
M 5.5 - M 9.0+
Depth (km)
0
70
300
700
Slab Depth (km)
20 - 80 (20 km intervals)
120 - 160 (40 km intervals)
220 - 400 (60 km intervals)
460 + (60 km intervals)
Boundary Type
Plate Rate
Subduction
Divergent
Transform
Other
Aftershock Zones M8.3+ (1958, 1963, 1933)
Rupture Zones M8.3+ (1994, 2003, 2011)
USGS
science for a changing world
124°
132°
140°
148°
38°
30°
22°
North America Plate
Sea of Japan
Yellow Sea
Eurasia Plate
East China Sea
Pacific Plate
Pacific Ocean
Phillippine Sea
Phillippine Sea Plate
Japan Trench
Nansei - Shoto (Ryukyu) Trench
Mariana Trench
M8.5 1963
M8.3 1958
M8.3 1994
M8.1 1952
M8.3 2003
M8.2 1968
M8.0 1960
M8.4 1933
M9.1 2011
M8.1 1923
M8.3 1946
M8.1 1944
M8.1 1910
M8.2 1920
91 mm/yr
93 mm/yr
47 mm/yr
61 mm/yr
38 mm/yr
70 mm/yr
33 mm/yr
91 mm/yr
0 250 500 750 1,000
Kilometers