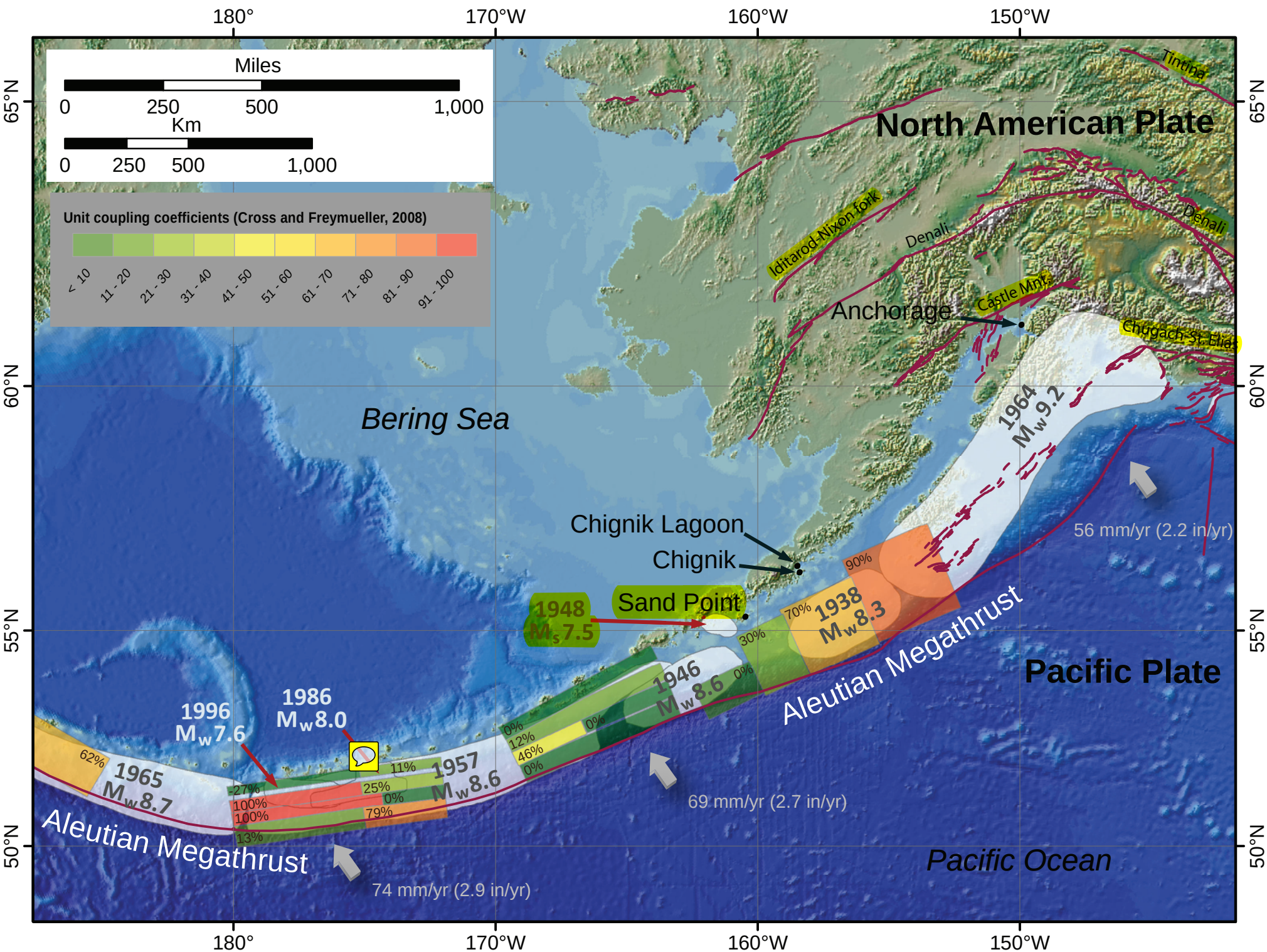

180°
170°W
160°W
150°W
65°N
60°N
55°N
50°N
Miles
0
250
500
1,000
Km
0
250
500
1,000
Unit coupling coefficients (Cross and Freymueller, 2008)
< 10
11 - 20
21 - 30
31 - 40
41 - 50
51 - 60
61 - 70
71 - 80
81 - 90
91 - 100
North American Plate
Tintina
Iditarod-Nixon fork
Denali
Denali
Castle Mnt.
Anchorage
Chugach-St. Elias
Bering Sea
1964
Mw 9.2
56 mm/yr (2.2 in/yr)
Chignik Lagoon
Chignik
Sand Point
1948
Ms 7.5
1938
Mw 8.3
90%
70%
30%
1946
Mw 8.6
0%
0%
0%
12%
46%
0%
Aleutian Megathrust
Pacific Plate
1996
Mw 7.6
1986
Mw 8.0
62%
1965
Mw 8.7
-27%
100%
100%
13%
11%
25%
0%
79%
1957
Mw 8.6
69 mm/yr (2.7 in/yr)
Aleutian Megathrust
74 mm/yr (2.9 in/yr)
Pacific Ocean