

Earthquake / Seismic				Model		
Event	USGS Date Time (UTC) Epicenter	CMT Date Time (UTC) Centroid	Magnitude Mw	Tsunami Magnitude ¹	Subduction Zone	Tsunami Source
1946 Unimak	01 Apr 12:28:56 52.75°N 163.50°W	01 Apr 12:28:56 53.32°N 163.19°W	² 8.5	8.5	Aleutian-Alaska-Cascadia (ACSZ)	$7.5 \times b_{23} + 19.7 \times b_{24} + 3.7 \times b_{25}$
1964 Alaska	28 Mar 03:36:00 ³ 61.02°N 147.65°W	28 Mar 03:36:14 61.10°N 147.50°W	³ 9.2	9.0	Aleutian-Alaska-Cascadia (ACSZ)	$a_{34} \times 15.4 + a_{35} \times 19.4 + z_{34} \times 48.3 + b_{34} \times 18.3 + b_{35} \times 15.1$
1994 East Kuril	04 Oct 13:22:58 43.73°N 147.321°E	04 Oct 13:23:28.5 43.60°N 147.63°E	⁵ 8.3	8.1	Kamchatka-Kuril-Japan-Izu-Mariana-Yap (KISZ)	$9.0 \times a_{20}$
1996 Andreanov	10 Jun 04:03:35 51.56°N 175.39°W	10 Jun 04:04:03.4 51.10°N 177.410°W	⁵ 7.9	7.8	Aleutian-Alaska-Cascadia (ACSZ)	$2.40 \times a_{15} + 0.80 \times b_{16}$
2003 Rat Island	17 Nov 06:43:07 51.13°N 178.74°E	17 Nov 06:43:31.0 51.14°N 177.86°E	⁵ 7.7	7.8	Aleutian-Alaska-Cascadia (ACSZ)	⁶ 2.81 $\times b_{11}$
2006 Tonga	03 May 15:26:39 20.13°S 174.161°W	03 May 15:27:03.7 20.39°S 173.47°W	⁵ 8.0	8.0	New Zealand-Kermadec-Tonga (NTSZ)	$6.6 \times b_{29}$
2006 Kuril	15 Nov 11:14:16 46.607°N 153.230°E	15 Nov 11:15:08 46.71°N 154.33°E	⁵ 8.3	8.1	Kamchatka-Kuril-Japan-Izu-Mariana-Yap (KISZ)	⁶ 4 $\times a_{12} + 0.5 \times b_{12} + 2 \times a_{13} + 1.5 \times b_{13}$
2007 Kuril	13 Jan 04:23:20 46.272°N 154.455°E	13 Jan 04:23:48.1 46.17°N 154.80°E	⁵ 8.1	7.9	Kamchatka-Kuril-Japan-Izu-Mariana-Yap (KISZ)	$-3.64 \times b_{13}$
2007 Solomon	01 Apr 20:39:56 8.481°S 156.978°E	01 Apr 20:40:38.9 7.76°S 156.34°E	³ 8.1	8.2	New Britain-Solomons-Vanuatu (NVSZ)	$12.0 \times b_{10}$
2007 Peru	15 Aug 23:40:57 13.354°S 76.509°W	15 Aug 23:41:57.9 13.73°S 77.04°W	⁵ 8.0	8.1	Central-South America (CSSZ)	$0.9 \times a_{61} + 1.25 \times b_{61} + 5.6 \times a_{62} + 6.97 \times b_{62} + 3.5 \times z_{62}$
2007 Chile	14 Nov 15:40:50 22.204°S 69.869°W	14 Nov 15:41:11.2 22.64°S 70.62°W	³ 7.7	7.6	Central-South America (CSSZ)	$z_{73} \times 1.65$
2010 Chile	27 Feb 06:34:14 35.909°S 72.733°W	27 Feb 06:35:15.4 35.95°S 73.15°W	⁵ 8.8	8.8	Central-South America (CSSZ)	⁶ a88 $\times 17.24 + a_{90} \times 8.82 + b_{88} \times 11.86 + b_{89} \times 18.39 + b_{90} \times 16.75 + z_{88} \times 20.78 + z_{90} \times 7.06$
2011 Tohoku	11 Mar 05:46:23.82 38.308°N 142.383°N	11 Mar 05:47:47.20 38.486°N 142.597°E	⁵ 9.0	8.9	Kamchatka-Kuril-Japan-Izu-Mariana-Yap (KISZ)	$4.66 \times b_{24} + 12.23 \times b_{25} + 26.31 \times a_{26} + 21.27 \times b_{26} + 22.75 \times a_{27} + 4.98 \times b_{27}$

¹ Preliminary source – derived from source and deep-ocean observations

² López and Okal (2006)

³ United States Geological Survey (USGS)