

Table 4. Magnitude  $\geq 8.2$  earthquakes versus syzygies in 1550–1833.

Date, time, magnitude	Pertinent lunar events	Other pertinent data	$\nu$	Source
1833/11/25 M=8.8	1833/11/27 7:09 Full Moon		2	n, g
1828/3/30 12:35 M=8.3	1828/3/31 10:24 Full Moon		1	n
1826/6/18 3:40 M=8.2	1826/6/19 22:54 Full Moon		2	n
1822/11/19 2:30 M=8.5	1822/11/29 4:32 Full Moon-closest perigee		0	n, g
1819/4/12 3:00 M=8.5	1819/4/10 13:08 Full Moon		2	n, g
1818/11/8 15:15 M=8.5	1818/11/12 21:33 Full Moon	Indonesia, 18 hours short of $\nu = 3$	$\geq 4$	n, g
1797/2/4 12:30 M=8.4 (M < 8.2 by GHEA)	1797/1/12 Full Moon-closest perigee		0	n
1793/2/17 M=8.3	1793/1/12 New Moon-closest perigee	1793/2/ VEI=5 eruption of Alaid 5 days short of $\nu = 3$	$\geq 4$	n, g
1792/8/22 M=8.4		Kamchatka	$\geq 4$	n, g
1784/5/13 M=8.4 (M=8.0 by NOAA)		Peru	$\geq 4$	g
1780/1/22 M=8.5	1780/1/22 Full Moon-closest perigee		0	g
1762/4/2 M $\leq 8.8$ , no magnitude assigned by NOAA		Bangladesh	$\geq 4$	g
1755/11/1 9:30 M=8.5	1755/11/4 New Moon-closest perigee		0	n, g
1751/5/24 5:30 M=8.5	1751/4/25 New Moon-2nd closest perigee		0	n, g
1746/10/28 M=8.6	1746/10/29 Full Moon, 1746/11/12 New Moon-2nd closest perigee		0	g
1737/10/16-17 M=8.3-9.0	1737/10/23 New Moon-2nd closest perigee		0	g
1730/7/8 8:45 M=8.7	1730/6/30 Full Moon-closest perigee		0	n, g
1725/2/1 $\approx$ 11am M=8.2	1725/1/28 Full Moon	1 day short of $\nu = 3$ near lake Baikal	$\geq 4$	n
1716/2/6 M=8.8	1716/2/7 15:25 Full Moon	Peru	1	n
1707/10/28 4:00 M=8.4	1707/10/25 14:33 New Moon	1707/12/16 VEI=4 eruption of Fuji	3	n, g
1703/12/30 M=8.2	1704/1/6 New Moon-closest perigee		0	n, g
1700/1/26 M=8.7-9.2	1700/1/5 Full Moon-closest perigee		0	n, g
1687/10/20 10:30 M=8.5	1687/10/20 11:36 Full Moon		0	n
1678/6/18 1:45 M=8.4	1678/6/19 3:32 New Moon		1	n, g
1668/7/25 M=8.5	1668/7/23 Full Moon, 1668/6/24 Full Moon-closest perigee		1-2	n, g
1647/5/14 2:30 M=8.5 (M=8 by GHEA)	1647/5/18 15:09 Full Moon	Chile 1 day short of $\nu = 3$	$\geq 4$	n
1629/8/1 M=8.5	1629/7/20, 1629/8/18 Full Moon-closest perigees		0	g
1619/2/14 16:30 M=8.6 (M=8.0 by GHEA)	1619/2/14 12:58 New Moon		0	n
1609/10/20 M=8.6 (M < 8.0 by GHEA)	1609/11/11 Full Moon-closest perigee		0	n
1604/11/24 18:30 M=8.5	1604/10/22 21:04 New Moon-2nd closest perigee		2	n
1586/1/18 0:30 M=8.2 (M < 8 by GHEA)	1586/1/19 18:41 New Moon	Japan	2	n
1582/1/22 16:30 M=8.2 M < 8 by GHEA	1582/1/24 8:56 New Moon	Peru	3	n
1575/12/16 18:30 M=8.5	1575/12/18 Full Moon-closest perigee		0	n, g
1570/2/8 $\approx$ 13 : 00 M=8.3 (M=8 by GHEA)	1570/2/5 4:22 New Moon		3	n
1556/1/23 M=8.2	1556/1/26 15:28 Full Moon		3	g
1555/11/15 M=8.4	Peru, 1555/11/14 7:03 New Moon		1-2	n, g

**Note:** The table was compiled by combining earthquakes listed as magnitude  $\geq 8.2$  either in NOAA's data base <https://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=1&d=1> or in GHEA's data base <https://emidius.eu/GEH/>; the former are indicated by letter "n" in the last column, the latter by letter "g". Only the main shocks are listed, foreshocks and aftershocks are not. Lunar phases and perigees are due to <https://www.fourmilab.ch/earthview/pacalc.html>, while the information about solar flares is due to <http://www.solarstorms.org/SRefStorms.html>, <http://adsabs.harvard.edu/full/1960Obs...80..149E>, <https://www.nature.com/articles/187926a0>, <https://agupubs.onlinelibrary.wiley.com/doi/pdf/10.1029/JZ065i012p04200>.

The following M  $\geq 8.2$  earthquakes from NOAA are not listed in the table: 1811-1812 New Madrid earthquakes, because they have been downgraded to M < 8.0; 1787/3/28 M=8.6 Mexico, because it was most likely an aftershock of 1776/4/21 of unknown magnitude; 1761/3/30 M=8.5 Lisbon, because it was most likely an aftershock of 1755/11/1 M=8.5; 1716/2/11 M=8.6 Peru, because it was most likely an aftershock of 1716/2/6 M=8.8; 1586/7/10 M=8.2 Peru, because it was most likely an aftershock of 1582/3/17 M=8.2; 1584/3/17 M=8.4 Peru, because it was most likely an aftershock of 1582/3/17 M=8.2, in which case the magnitude of 1582/3/17 should be greater than that of 1584/3/17.