

Data for the Thera Project

At the Thera Project, we place an extremely high value not only on accessibility of data but also total transparency about our methods. All of the data used to compile the following tables has been gathered from impartial third-party sources which have no connection whatsoever to our research. We believe this ensures the integrity of the data, since there would be no reason for these third parties to skew the information in our favor. This will also allow any reader to verify the information in the following tables for themselves. If errors or omissions are noted, please contact us at theraproject@hotmail.com and we will amend the tables as needed upon verifying the information for ourselves.

All of our geological data is gathered through the United States Geological Survey and the National Earthquake information center. Earthquake lists for Tables A, C and D were compiled using the NEIC's historical quake search. This website is accessible at: <http://neic.usgs.gov/neis/epic/epic.html>. You can search for earthquakes globally or, if you know the general area in which the quake occurred, you can choose the rectangular area search option. Table B was compiled on a daily basis during the period covered in the table, from May-June 2004, using the daily lists compiled by the USGS. Individual earthquakes on the table should be easily traceable using the rectangular search area method mentioned above.

Solar events are catalogued through the National Oceanic and Atmospheric Administration. You may access solar X-ray data by going to <http://www.ngdc.noaa.gov/stp/SOLAR/ftpsolarflares.html> Choose option 3, Solar X-ray flares.

Solar radio events are accessible at the following website, also operated by NOAA: <http://www.ngdc.noaa.gov/stp/SOLAR/ftpsolarradio.html> .You may find the sweep-frequency data by choosing option 5, Solar Radio Spectral Data. Sweep-frequency bursts are designated as RSP in the listings.

Both of these sites are extensive. However, if you are looking for data from 1996 to present, you can find information in a format that is slightly easier to read by going to NOAA's Space Environment Center Website's archives at <http://www.sec.noaa.gov/ftpmenu/index.html> . Choose "Historical SEC Products from 1996" from the listed options. Each year's files are downloadable in ZIP format. Click on the year you want, and then choose the file tagged "events".

All sunrise/sunset data is available through the U.S. Naval Observatory website at http://aa.usno.navy.mil/data/docs/RS_OneDay.html . To find the sunrise/sunset time of any area of the world, scroll down to Form B, enter the longitude and latitude of the area in question, and make sure to enter the date for which you want the data. In the Time Zone option, you must enter '00' [zero zero] to ensure the time results are in UTC.

About the Tables:

Because the tables deal with slightly different data the format varies somewhat. Nonetheless they should be easy enough for the reader to decipher. All tables contain information about the date and location of individual earthquakes, the times of sunrise and sunset at the epicenter, the type of solar event correlated with the subsequent earthquake, and the time and date of the solar event.

In some cases solar events are counted on a qualified basis. A latitude of five minutes was added to the end of the sunrise period, and the beginning of the sunset period, for the simple reason that a 'minute' is a strictly human convenience which cannot be imposed as a constraint on forces of nature. Solar events which fall within that five minute latitude are placed in parentheses. However, this is the only concession made in processing the data.

X-ray events of all levels of intensity are counted as valid events. To date, we have found no evidence that the strength of the X-ray flare has any correspondence with the magnitude of the subsequent earthquake. It may, indeed, be argued that if an area has built up sufficient tectonic strain only a small amount of outside influence is needed to push it to the point of seismic activity and the resulting event could be expected to be strong; whereas if an area has a rather small amount of strain built up, a large outside influence in the form of a powerful solar event may cause a reaction, but owing to the small scale of strain the seismic event itself will tend to be less powerful.

Sweep-frequency bursts are designated by the SEC label RSP in the tables. Type II, III, IV and IV sweep-frequency bursts were counted as positive correlations. However, long duration events designated as CTMs, while technically falling into the category of sweep-frequency events, were only included on a very limited basis. This is because their long duration, which can extend for hours in some cases, weakens the integrity of the data. Therefore, if their onset or ending occurs within the 40-minute post-sunrise, pre-sunset window, the CTMs are allowed as valid sweep-frequency events. If their onset or ending falls outside these 40 minute windows, the CTM is disallowed.

Table A: Large earthquakes of note for which solar precursor correspondences have been found

The following table offers a few correspondences to large earthquakes of note in the recent past.

Earthquake Location and Date	Sunrise at Epicenter (UTC)	Sunset at Epicenter (UTC)	Corresponding Solar Event Type	Solar Event Date	Solar Event Time
Java, Indonesia May 27, 2006	22:44	10:24	RSP	5/25	9:54
			XRAY RSP	5/25 (5.26 local)	23:03 23:15
Pakistan October 8 2005	1:04	12:39	RSP RSP RSP	10/7	1:10 1:26 12:25
Banda Aceh, Indonesia December 26, 2004	23:37	11:32	RSP	12/24	23:22
Niigata, Japan October 23, 2004	21:03	8:00	RSP X-RAY	10/22	7:32 7:52
Bam, Iran December 26, 2003	2:57	13:15	XRA	12/25	Event ends 3:06
			RSP		3:26
Colima, Mexico January 21, 2003	13:33	00:33 following day UTC	X-Ray RSP	1/19	14:12 14:12
			RSP RSP	1/20 1/20	14:11 14:18
Kunlunshan, Tibet November 14, 2001	00:33	10:49	X-ray	11/13	10:14
			RSP	11/12	00:42
			RSP	11/12	1:08
Gujarat, India January 26, 2001	2:01	13:00	XRA	1/25	2:13
			XRA		Event ends 12:23
			XRA	1/24	12:30

Hector Mine, California October 16, 1999	13:51	1:13 following day UTC	RSP RSP RSP XRA XRAY	10/15 UTC 10/15 (10/14 LOCAL)	14:11 00:43 00:43 Event ends 00:50 00:58
Taiwan September 19, 1999	21:43 previous day UTC	9:56	RSP	9/19 (9/20 local)	22:07
Turkey August 17, 1999	3:07	16:58	RSP RSP XRA RSP	8/16 8/15	3:25 3:26 16:37 16:21
Northridge, California January 17, 1994	15:01	1:11 following day UTC	XRA XRA	1/16 (1/15 local) 1/17 (1/16 local)	01:00 00:33
Kobe, Japan January 17 1995	22:07 previous day UTC	8:13	XRA	1/15 (1/16 local)	22:19
Loma Prieta, California October 17,1989	14:20	1:30 following day UTC	RSP RSP	10/15 10:16	14:09 14:13
Spitak, Armenia Dec 7, 1988	4:16	13:32	XRA	12/05	4:33
Mexico City Sept 19, 1985	12:40	00:50 following day UTC	(RSP)	(9/18)	(13:22)
Sylmar, California February 9, 1971	14:46	1:33 following day UTC	RSP	2/9 (2/8 local)	1:09

Table B: Table of consecutive quakes and corresponding solar precursor events

The following table lists events from mid-May through late June of 2004. These earthquake lists were prepared from the daily lists given by the National Earthquake Information Center on the USGS website. As these tables were updated almost daily, it is possible that more events during this time period have since been added to the NEIC catalogue as subsequent information about small or hard-to-pinpoint earthquakes became available. This table represents the most complete data available at the time it was compiled, and the earthquakes given are in consecutive order as listed at the time the table was finished.

To avoid confusion, I have frequently noted when an event occurred in local time, if it appeared that using the event conflicted with the 48 hour window I have established for valid precursor phenomena. For example, in places in far western latitudes, when an event occurs prior to sunset, the UTC time of the event may already be the date of the earthquake; however, at the local epicenter, it is still the previous day. While I have tried to make notations when these discrepancies occurred on the table, I am confident the reader understands the principal of UTC and local time/dateline changes well enough to make the necessary adjustment when such notations are omitted.

Location Of Quake	Date of Quake (local)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Southeast Indian Ridge	6/25	45.83S 95.80E	1:19	9:55	RSP RSP RSP	5850 5860 5930	6/24	1:27 1:34 9:15
Poland	6/25	50.09N 18.40E	2:36	18:59	X-RAY	5580	6/23	2:55
Czech Republic	6/25	50.83N 15.09E	2:43	19:20	X-RAY X-RAY	5980 5580	6/24 6/23	19:01 2:55
Poland	6/25	50.30N 18.93E	2:30	18:58	X-RAY	5580	6/23	2:55
Virgin Islands	6/24	18.80N 64.57W	9:43	23:01	X-RAY	5830	6/23	22:50
Banda Sea	6/25	6.67S 130.34E	21:29(P)	9:11	RSP RSP RSP X-RAY	5800 5810 5540 5550	6/23 6/22	21:42 21:56 21:46 21:48
Hungary	6/25	47.39N 16.98E	2:52	18:51	X-RAY	5580	6/23	2:55
Puerto Rico	6/24	19.64N 65.46W	9:45	23:06	X-RAY	5830	6/23	22:50
Near Coast of Central Chile	6/24	28.74S 71.34W	11:40	21:57	RSP X-RAY	5800 5550	6/23 6/22	21:42 21:48
Dominican Republic	6/24	19.28N 69.42W	10:02	23:20	X-RAY RSP	5830	6/23	22:50 23:10

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Oregon	6/24	42.18N 120.29W	12:26	3:43(f)	X-RAY	5580	6/23	Event ends 3:10
					RSP X-RAY	5430 5440	6/22	12:38 12:57
Southeast of Loyalty Islands	6/25	21.21S 168.55E	19:22(P)	6:12	X-RAY	5880	6/24	5:52
					X-RAY RSP	5590 5670	6/23	5:49 5:49
Papua New Guinea	6/25	6.48S 155.08E	19:50(P)	7:34	-----	-----	-----	-----
Vancouver Island	6/24	50.05N 130.15W	12:32	4:55(f)	RSP	5870	6/24 (6/23 local)	4:23
					RSP X-RAY	5430 5440	6/22	12:38 12:57
Near Coast of Chile	6/24	21.97S 71.23W	11:25	22:10	RSP	5820	6/23	22:29
					X-RAY	5550	6/22	21:48
Halamaheera, Indonesia	6/24	2.89N 138.97E	20:24(P)	8:53	X-RAY	5420	6/22	Event ends 8:13
					X-RAY X-RAY	5510 5180	6/21 (6/22 local)	8:26 20:46
Bonin Island	6/24	27.81N 139.81E	19:42(P)	9:39	X-RAY	5150	6/21 (6/22 local)	19:58
					X-RAY	5170	6/22 (6/22 local)	20:13
Off Coast of Chile	6/24	18.33S 71.20W	11:17	22:18	RSP RSP	5790 5800	6/23	21:42 21:56
					RSP X-RAY	5540 5550	6/22	21:46 21:48
Western Xizhang, China	6/24	29.53N 87.52E	23:09(P)	13:13	RSP RSP X-RAY	5560 5430 5440	6/22	23:26 12:38 12:57
					RSP X-RAY	5310 5270	6/21	23:17 23:47

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Easter Island	6/24	23.90S 111.88W	14:09	00:46(F)	X-RAY	5840	6/24 (6/23 local)	00:21
					RSP RSP	5630 5570	6/23	15:23 00:18
					RSP X-RAY	5450 5530	6/22	14:25 14:31
San Juan Islands, Washington	6/24	48.54N 122.60W	12:09	4:20(F)	RSP	5430	6/22	12:38
Vanuatu	6/24	15.44S 168.26E	19:13(P)	6:24	X-RAY RSP X-RAY	5590 5670 5500	6/23 6/22	5:49 5:49 6:119
					X-RAY X-RAY	5150 5170	6/21 (6/22 local)	19:58 20:13
Ecuador	6/24	1.94S 77.46W	11:14	23:13	X-RAY RSP	5830	6/23	22:50 23:01
Northern Mariana Region	6/24	17.13N 145.72E	19:43(P)	8:52	X-RAY	5420	6/22	Event ends 8:13
					X-RAY	5510		8:26
					X-RAY	5150	6/21 (6/22 local)	19:58
Indonesia	6/24	4.00N 126.31E	21:25(P)	9:47	RSP X-RAY	5540 5550	6/22	21:46 21:48
South of Fiji	6/24	23.50S 179.78E	18:41(P)	5:21	X-RAY	5390	6/22	5:18
					RSP X-RAY	5650 5490	6/22 (6.23 local)	18:59 19:09
					X-RAY	5130	6/21 (6/22 local)	Event ends 18:48
Virgin Islands	6/23	18.70N 64.25E	1:06	14:23	X-RAY	5520	6/22	13:47
					RSP RSP	4960 4970	6/21	1:13 1:16
Fiji	6/24	21.55S 179.11W	18:35	5:23(F)	X-RAY RSP X-RAY X-RAY	5650 5490 5390 5130	6/22 6/21 (6/22 local)	18:59 19:09 5:18 18:48

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Los Angeles Area	6/23	34.17N 117.72W	12:42	3:08(F)	X-RAY	5580	6/23 (6/22 local)	2:55
					X-RAY	5440	6/22	12:57
					RSP X-RAY	5070 5080	6/21	13:14 13:21
Kamchatka Peninsula	6/24	55.59N 159.91E	23:12(P)	16:49	X-RAY	5660	6/23	16:48
					RSP RSP	5560 5460	6/22 (6/23 local)	23:26 16:42
					RSP X-RAY	5310 5270	6/21	23:17 23:47
Northern Italy	6/24	44.37N 07.26E	3:45	19:19	X-RAY RSP	5650 5490	6/22	18:59 19:09
Argentina`	6/23	32.97S 69.09W	11:41	21:36	X-RAY	5060	6/21	12:01
Vancouver Islands	6/23	50.43N 130.25W	12:29	4:59(F)	RSP X-RAY	5430 5440	6/22	12:38 12:57
Chile Argentina Border region	6/23	33.81S 70.59W	9:32	00:00	RSP	5560	6/22	23:26
					RSP	5310	6/21	Event ends 23:21
Fiji Region	6/23	20.47S 178.26W	18:30	5:22F	X-RAY	5390	6/22	5:18
					X-RAY	5130	6/21 (6/22 local)	18:32
Northern Chile	6/23	19.48S 69.11W	11:11	22:07	RSP X-RAY	5540 5550	6/22	21:46 21:48
					RSP	5050	6/21	11:36
Chile Bolivia Border	6/23	19.49S 68.97W	11:13	22:09	RSP X-RAY	5540 5550	6/22	21:46 21:48
					RSP	5050	6/21	11:36

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
South Island, New Zealand	6/23	42.83S 171.36E	22:07(P)	5:04	RSP RSP		6/20 (6/21 local)	22:10 22:26
Banda Sea	6/23	6.95S 124.95E	21:49(P)	9:30	RSP	5300	6/21 (6/22 local)	22:21
					RSP	4930	6/20 (6/21 local)	22:26
Dominican Republic	6/22	19.89N 69.06W	9:59	23:18	X-RAY RSP	5250 5310	6/21	22:54 23:17
Tonga	6/23	19.10S 175.71W	18:18	5:16(f)	X-RAY	5130	6/21 (6/22 local)	18:32
Western Saudi Arabia	6/22	27.87N 36.94E	2:33	16:30	X-RAY	5090	6/21	16:11
					RSP	4830	6/20	16:25
Italy	6/22	45.12N 7.34E	3:42	19:21	X-RAY	4690	6/20	3:52
Santa Cruz Islands	6/22	10.94S 166.24E	19:13(P)	6:40	RSP	4920	6/20	6:32
					X-RAY	4600	6/19 (6/20 local)	19:30
New Mexico	6/22	32.53N 104.58W	11:52	2:12(F)	X-RAY	5060	6/21	12:01
Off Coast of N. California	6/22	41.30N 127.14W	12:56	4:07(F)	X-RAY	5070	6/21	13:14
					RSP	5080		13:21
					X-RAY	4780	6/20	13:23
Gulf of California	6/22	24.92N 109.31W	12:28	2:12(F)	-----	-----	-----	-----
Off Coast of N. California	6/21	41.31N 127.10W	12:55	4:06(F)	X-RAY	4780	6/20	13:23
Off Coast of N. California	6/21	41.41N 127.17W	12:56	4:07(F)	X-RAY	4780	6/20	13:23

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Off Coast of N. California	6/21	41.33N 127.26W	12:56	4:08(F)	X-RAY	4780	6/20	13:23
Off Coast of N. California	6/21	41.40N 126.97W	12:56	4:09(F)	X-RAY	4780	6/20	13:23
Southern Sumatra	6/22	4.63S 102.67E	23:15(P)	11:04	-----	-----	-----	-----
Hokkaido, Japan	6/22	41.64N 141.04E	19:00(P)	10:15	X-RAY	4590	6/19 (6/20 local)	Event ongoing at 19:00
					X-RAY	4600		19:30
Hokkaido, Japan	6/21	41.76N 141.11E	18:59(P)	10:15	X-RAY	4590	6/19 (6/20 local)	Event ongoing at 18:59
					X-RAY	4600		19:30
Switzerland	6/22	47.50n 7.70E	3:28	19:30	(X-RAY)	(5130)	6/21	(Event end 18:48)
					RSP	4910	6/20	3:31
					X-RAY	4690		3:52
Auckland Islands, New Zealand	6/22	49.01S 164.01E	20:59(P)	5:12	X-RAY	4710	6/20	4:55
					X-RAY	4640	6/19 (6/20 local)	21:33
Southern Alaska	6/21	61.65N 121.25W	10:14	6:01F	RSP	5280	6/21 (6/20 local)	5:36
					XRAY	4710	6/20 (6/19 local)	Event ends 5:22
					RSP	4720		5:51
					X-RAY	4340	6/19	10:17
South Sandwich Islands	6/21	55.90S 27.58W	10:29	17:19	X-RAY	4840	6/20	Event ends 16:40
					X-RAY	4350	6/19	11:08
Southern Alaska	6/21	62.08N 150.03W	12:07	7:57(F)	X-RAY	5030	6/21 (6/20)	7:21
West of Macquarie Island	6/22	59.38S 148.46E	23:07P	5:06	X-RAY	4710	6/20	4:55

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Nicaragua	6/21	11.57N 87.68W	11:30	00:19	X-RAY	4350	6/19	Event ends 11:37
Southern California	6/21	33.71N 116.06W	12:33	2:59(F)	X-RAY	4380	6/19	13:04
Baja, California	6/21	32.30N 115.31W	12:35	2:53(F)	X-RAY	4380	6/19	13:04
Bonin Islands	6/21	27.92N 139.47E	19:44(P)	9:41	-----	-----	-----	-----
Vanuatu	6/21	20.57S 169.38E	19:17(P)	6:09	RSP X-RAY	4720 4600	6/20 6/19 (6/20 local)	5:51 19:30
South of Fiji	6/21	23.83S 179.83W	18:44(P)	5:22	X-RAY X-RAY RSP X-RAY	4710 4590 4270 4280	6/20 6/19 (6/20 local) 6/19	4:55 18:58 4:56 5:00
Morocco	6/20	34.87N 3.90W	5:03	19:36	X-RAY X-RAY X-RAY	4590 4600 4280	6/19	18:58 19:30 Event end 5:18
Off Coast of North Island New Zealand	6/21	37.44S 177.26E	19:25(P)	4:58	X-RAY X-RAY RSP	4710 4600 4270	6/20 6/19 (6/20 local) 6/19	4:55 19:30 4:56
Near North Coast of Papua	6/20	0.69S 133.18E	21:06(P)	9:10	X-RAY X-RAY RSP	4440 3950 3880	6/19 6/18 6/17 (6/18 local)	Event end 8:33 Event End 8:44 21:43

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Hindu Kush Region, Afghanistan	6/20	36.72N 70.78E	23:54(P)	14:38	X-RAY	4410	6/19	Event end 14:14
					X-RAY	4430		14:25
					X-RAY	4210	6/18 (6.19 local)	Event End 00:03
Molucca Sea	6/20	0.49N 126.00E	21:32	9:42	RSP	3880	6/17 (6/18 local)	21:43
Myanmar-India Border	6/20	27.87N 96.65E	22:34(P)	12:32	X-RAY	3850	6/17 (6/18 local)	Event end 22:36
					RSP			Event end 22:34
					X-RAY RSP	3860	22:53 22:56	
Izu Islands Japan	6/20	33.40N 140.62E	19:25	9:49	X-RAY	3830	6/17 (6/18 local)	19:35
Fox Islands Alaska	6/19	52.26N 171.48W	15:04	7:53(F)	X-RAY	4050	6/18	15:34
					RSP	3730	6/17	15:12
Siberia, Russia	6/20	65.53N 149.21E	No sunrise/sunset					
Azores	6/20	35.68N 10.10W	5:23	20:01	X-RAY	4600	6/19	19:41
South of Panama	6/19	5.37N 82.59W	11:20`	23:47	(X-RAY)	(4210)	6/18	(23:48)
Fiji Region	6/20	21.79S 179.52W	18:38(p)	5:24	X-RAY	4280	6/19	5:00
					X-RAY	4110	6/18 (6/19 local)	Event ends 18:43
Off Coast of North Island, New Zealand	6/20	37.80S 177.56E	19:25(P)	4:54	RSP	3930	6/18	4:16
					X-RAY	3830	6/17 6/18local)	19:35

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Greater Los Angeles Area	6/19	33.97N 118.36W	12:42	3:10	RSP X-RAY RSP RSP	3920 3620 3630 3640	6/18 6/17	2:35 12:49 13:04 13:18
Nevada	6/19	39.47N 119.15W	12:29	3:28F	X-RAY RSP	3620 3630	6/17	12:49 13:04
Puerto Rico	6/19	19.16N 65.26W	9:44	23:02	RSP X-RAY RSP X-RAY RSP	3580 3850 3860	6/17 6/17	9:52 Event end 22:36 Event end 22:34 22:53 22:56
Central California	6/18	35.54N 120.57W	12:47	3:23(f)	X-RAY RSP RSP X-RAY	3620 3630 3640 3440	6/17 6/17 (6/16 local)	12:49 13:04 13:18 3:23
Hokkaido, Japan	6/19	43.47N 141.89E	18:48(P)	10:15	RSP	3580`	6/17	9:52
Northern Columbia	6/18	6.64N 72.99W	10:40	23:12	X-RAY X-RAY RSP X-RAY	3850 3860 3350 3320	6/17 6/16	22:30 22:53 22:33 22:51
Near North Coast of Papua Indonesia	6/18	1.85S 138.75E	20:45(p)	8:44	RSP RSP	3530 3190	6/17 6/16	8:20 8:24
Southern California	6/18	33.18N 115.61W	12:35	2:56(f)	X-RAY X-RAY RSP X-RAY	3920 3620 3630 3410	6/18 (6/17 local) 6/17	2:35 12:49 13:04 2:34
Marshall Islands	6/18	16.61N 161.24E	18:41(P)	7:50	RSP	3520	6/17	7:36
Idaho	6/18	43.98N 113.80W	11:52	3:26(F)	X-RAY RSP	3410 3440	6/17	Event end 2:48 3:23

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
South of Panama	6/17	3.50N 82.46W	11:22	23:43	X-RAY	3320	6/16	Event end 23:19
Offshore Northern California	6/17	40.75N 125.08W	12:47	3:56(F)	X-RAY	3440	6/17 (6/16 local)	3:23
Tonga Region	6/18	13.32S 172.75W	17:54	5:14(F)	X-RAY	3150	6/16	Event ends 4:55
					RSP	3330		5:11
Fiji Region	6/18	18.77S 177.93W	18:26	5:24(F)	X-RAY	3150	6/16	Event ends 4:55
					RSP	3330		5:11
Washington	6/17	46.63N 118.23W	11:58	3:52(F)	RSP	3440	6/17 (6/16 local)	3:23
Offshore Baja California	6/16	32.33N 117.84	12:46	3:03(F)	RSP	2800	6/14	13:20
San Juan Province, Argentina	6/16	31.57S 69.49W	11:38	21:42	RSP	3120	6/15	22:16
Mariana Islands	6/16	21.58N 143.16E	19:43(P)	9:12	RSP	2990	6/15	8:49
					X-RAY X-RAY	2770 2620	6/14 6/13 (6/14 local)	8:38 19:49
Chile-Bolivia Border	6/16	21.28N 68.48W	9:53	23:19	RSP	2860	6/14	23:12
Central California	6/16	35.79N 117.98W	12:36	3:14(F)	RSP	2800	6/14	13:20
Mindanao, Philippines	6/17	6.05N 125.03E	21:26(P)	9:55	RSP RSP	3100 3110	6/15 (6/16 local)	21:30 21:41
Philippines Region	6/17	5.55N 127.05E	21:18(P)_	9:46	RSP	3210	6/16	9:07
					RSP RSP	3100 3110	6/15	21:30 21:41
Central California	6/16	35.69N 121.10W	12:47	3:24(F)	RSP	2800	6/14	13:23

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Central California	6/16	35.64N 120.95W	12:49	2:35(F)	RSP	2800	6/14	13:20
Missouri	6/15	36.73N 89.69W	10:40	1:23(F)	RSP	2920	6/15 (6/14 Local))	00:51
Greater Los Angeles Area	6/15	34.06N 117.26W	12:38	3:03(F)	X-RAY RSP	2700 (same event)	6/14 (6/13 local)	2:56 3:00
Off East Coast of Honshu	6/16	34.33N 141.48E	19:20(P)	9:47	RSP X-RAY	3000 2620	6/15 6/13 (6/14 local)	9:47 19:49
Offshore Baja, California	6/15	32.36N 117.82W	12:46	3:03(F)	X-RAY RSP	2700 (same event)	6/14 (6/13 local)	2:56 3:00
Offshore Baja, California	6/15	32.38N 117.85W	12:45	3:03(F)	RSP X-RAY	2800 2700	6/14 6/14 (6/13 local)	13:20 Event Ends 3:04
Southern Alaska	6/15	60.90N 147.38W	12:08	7:34(F)	X-RAY	2530	6/13	Event ends 12:15
Tonga	6/16	15.36S 173.78W	18:01	5:14(F)	RSP	2890	6/14	4:45
Western Turkey	6/15	40.67N 26.39E	2:40	17:47	X-RAY RSP RSP X-RAY	2700 2880 2400	6/14 6/13	Event end 3:04 3:00 3:07 Event ends 2:47
Near Coast of Central Chile	6/15	38.81S 73.06W	12:10	21:35	X-RAY RSP	2530 2650	6/13	Event end 12:15 21:08
Southeastern Missouri	6/15	36.67N 89.68W	10:40	1:22(F)	RSP	2920	6/15 (6/14 local)	00:51

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Oaxaca, Mexic	6/14	16.39N 97.82W	12:00	1:07(F)	X-RAY	2530	6/113	Event ends 12:15
					X-RAY	2370	6/12	12:36
Tonga Region	6/15	22.14S 174.92W	18:19	5:06(F)	RSP X-RAY	6/13	2610 2480	18:47 4:27
					X-RAY X-RAY	6/12 (6/13 local)	2430 2440	18:31 18:37
Northern Alaska	6/14	67.79N 156.33W	NO SUNRIS/ SUNSET		N/A	N/A	N/A	N/A
Near Coast of Kamchatka	6/14	53.74N 160/36E	16:43(p)	9:53	RSP	2420	6/12 (6/13 local)	17:20
Fiji Region	6/14	17.91S 171.57W	17:57	4:59(f)	X-RAY RSP	2480 2570	6/13	4:27 4:21
Chiapas, Mexico	6/13	15.86N 92.5W	11:40	00:46	RSP	2340	6/11	12:10
Olympic Peninsula, Washington	6/12	47.83N 123.82W	12:16	4:20(F)	RSP	2340	6/11	Event ends 12:19
Northern California	6/12	39.41N 120.21W	12:33	3:31(f)	-----	-----	-----	-----
Northern California	6/12	39.41N 120.21W	12:33	3:31(f)	-----	-----	-----	-----
Eastern Turkey	6/12	38.59N 39.64E	1:53	16:47	-----	-----	-----	-----
Northern California	6/12	38.81N 122.81W	12:46	3:42(F)	-----	-----	-----	-----
Puerto Rico Region	6/12	17.63N 65.40W	9:47	22:59	-----	-----	-----	-----
Washington	6/11	48.63N 121.66W	12:03	4:14	X-RAY	2330	6/10 (6/9 local)	Event Ends 3:41
					X-RAY	2300	6/9	12:38
Vancouver Island Region	6/11	50.65N 129.80W	12:26	4:58(f)	X-RAY	2330	6/9	12:38
East Coast of Honshu	6/12	40.05N 142.11E	19:01(P)	10:02	-----	-----	-----	-----
Kuril Islands	6/12	45.24N 150.75E	18:06(P)	9:45	-----	-----	-----	-----
Southern East Pacific Rise	6/11	35.24S 106.38W	14:13	00:00	RSP	2320	6/9	Event ends 00:45

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Unimak Island Region, Alaska	6/11	54.05N 163.69W	14:23	7:31(F)	-----	-----	-----	-----
Unimak Island Region, Alaska	6/11	53.96N 163.64W	14:19	7:34(F)	-----	-----	-----	-----
South Central Pacific Ocean	6/11	28.00S 90.81W	12:54	23:17	RSP	2320	6/9	Event begins 22:58
Izu Islands, Japan	6/11	32.55N 140.18E	19:30(P)	9:48	-----	-----	-----	-----
Kermadec Islands, New Zealand	6/11	30.26S 178.72W	18:51	5:03(F)	-----	-----	-----	-----
Kamchatka Peninsula	6/10	55.77N 159.96E	16:30(P)	10:04	-----	-----	-----	-----
Costa Rica	6/10	9.70N 83.00W	11:10	23:57	RSP X-RAY	2320 2290	6/9 6/8	Event ongoing At 23:57 23;25
Oklahoma	6/10	34.24N 97.27W	11:17	1:42(F)	-----	-----	-----	-----
Tonga	6/10	15.26S 173.47W	17:08	6:01F	(RSP)	2280	6/8 (6/9 local)	(6:02)
Molucca Sea	6/10	1.24N 126.87E	21:24 (P)	9:36	-----	-----	-----	-----
Near Coast Of Costa Rica	6/10	11:52N 87.69W	11:28	00:16(F)	-----	-----	-----	-----
Windward Islands	6/10	13.75N 60.11W	9:32	22:29	-----	-----	-----	-----
Western Indian Antarctic Ridge	6/10	51.65S 139.49E	22:46(P)	6:34	RSP	2280	6/8	6:02
Western Indian Antarctic Ridge	6/10	51.59S 139.58E	22:44(P)	6:35	RSP	2280	6/8	6:02
Volcano Islands	6/09	21:12N 143.33E	19:41	9:09	X-RAY	2200	6/7 (6/8 local)	20:10
Off East Coast Of Honshu	6/09	34.52N 141.59E	19:18(P)	9:45	-----	-----	-----	-----
Andreadov Islands	6/08	50.79N 179.48W	15:43`	8:15(F)	X-RAY	2120	6/6	15:52

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Vanuatu	6/08	15.32S 167.58E	19:11(P)	6:24	-----	-----	-----	
North of Honduras	6/08	17.49N 83.44W	10:59	00:10(F)	X-RAY	2090	6/6	11:25
Offshore Chiapas	6/07	15.44N 93.68W	12:40	23:52	X-RAY X-RAY	2100 2030	6/6/ 6/5	12:59 12:48 (event end)
Oklahoma	6/07	34.25N 97.25W	11:17	1:42(F)	RSP X-RAY X-RAY	2160 2090 2060	6/7 (6/6 local) 6/6 6/6 (6/5 local)	11:29 11:25 1:17
Greater Los Angeles	6/07	34.19N 118.56W	12:43	3:08(F)	X-RAY X-RAY X-RAY	2180 2100 2030	6/7 (6/6 local) 6/6 6/5	Event end 3:08 12:59 Event Ends 12:48
Bolivia	6/07	21.42S 66.75W	9:46	23:11	RSP	2150	6/6	22:40
Java, Indonesia	6/07	6.10S 113.09E	22:34(P)	10:20	-----	-----	-----	
Hokkaido	6/07	42.60N 144.35E	18:43(P)	9:58	-----	-----	-----	
El Salvador	6/06	13.35N 89.93W	11:34	00:28(F)	-----	-----	-----	
Northern Xinjiang, China	6/06	43.16N 94.38E	22:02(P)	13:19	X-RAY	2030	6/5	Event Ends 12:48
Hokkaido	6/07	41.83N 140.97E	18:57(P)	10:08	-----	-----	-----	
Java Indonesia	6/06	6.01S 113:11E	22:33(P)	10:20	-----	-----	-----	
Offshore Central California	6/06	35.55N 121.28W	12:49	3:21(F)	(X-RAY)	(2030)	6/5	(Event Ends 12:48)

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Offshore Central California	6/04	35.55N 121.30W	12:50	3:19(F)	RSP RSP RSP	1870 1880 1650	6/3 6/2	13:00 13:25 13:14
Oregon	6/04	42.31N 120.23W	12:22	3:38(F)	X-RAY RSP RSP RSP RSP	1840 1860 1850 1870 1780	6/3 6/3 (6/2 local)	12:24 12:43 12:44 13:00 3:28
Reykjanes Ridge	6/04	54.23N 35.17W	5:51	22:49	RSP RSP	1810 1600	6/3 6/2	6:19 5:53
Reykjanes Ridge	6/04	54.36N 35.23W	5:50	22:51	RSP RSP	1810 1600	6/3 6/2	6:19 5:53
<Baffin Bay>	6/04	73.07N 71.42W	<no sunrise or sunset>					
Southern Idaho	6/04	42.15N 111.35W	11:51	2:59(F)	X-RAY	1840	6/3	12:24
Pyrenees	6/04	42.22N 2.18E	4:15	19:23	RSP (RSP)	1790 (1580)	6/3 (6/2)	4:49 (5:02)
Mona Passage	6/03	17.72N 67.94W	9:57	23:08	X-RAY RSP RSP RSP	1630 1690 1720 1410	6/2 6/1	9:57 22:58 23:08 10:05
Near the Coast Of Nicaragua	6/03	11:59N 86.61W	11:23	00:10(F)	RSP	1440	6/1	11:43
Pyrenees	6/04	43.04N 00.29W	4:24	19:37	RSP RSP	1790 1580	6/3 6/2	4:49 5:02
Tonga	6/04	15.95S 173.85W	18:01	5:11(F)	RSP	1790	6/3	4:49
Taiwan	6/04	24.04N 123.00E	21:00(P)	10:33	X-RAY	1630	6/2	Ongoing At 10:33
Unimak Island Region	6/03	54.60N 163.90W	14:23	7:30(F)	X-RAY	1470	6/1	14:47

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Crete	6/04	34.63N 25.23E	3:05	17:29	RSP	1780	6/3	3:28
					X-RAY	1670	6/2	Event Ends 16:55
Pyrenees	6/04	43:02N 0.32W	4:21	19:41	RSP	1790	6/3	4:49
Greece	6/04	39.89N 20.68E	3:06	18:02	RSP RSP	1950 1780	6/3	17:44 3:28
					X-RAY	1680	6/2	17:44
South of Alaska	6/3	54.86N 156.89W	1350	7:08(F)	RSP	1810	6/3 (6/2 local)	Event Ends 6:28
					RSP	1610	6/2 (6/1 local)	6:44
Alaska Peninsula	6/3	55.36N 157.34W	13:49	7:10(F)	RSP	1810	6/3 (6/2 local)	Event Ends 6:28
					RSP	1610	6/2 (6/1 local)	6:44
Southern Bolivia	6/3	18.56S 67.01W	10:56	21:58	RSP	1640	6/2	11:03
Jujuy Province Argentina	6/3	22.52S 66.18W	11:00	21:48	RSP	1640	6/2	11:03
					RSP	1440	6/1	11:42
Myanmar	6/3	25.25N 95.15E	22:54(P)	12:22	RSP	1440	6/1	11:42
					RSP X-RAY X-RAY	1240 1250 1260	5/31 (6/1 local)	22:57 23:12 23:20
Off East Coast Of Honshu	6/3	34.34N 141.30E	19:21(P)	9:45	RSP	1710	6/2	9:23
					RSP	1400	6/1	9:35
					RSP X-RAY	1210 1220	5/31 (6/1 local)	1921 20:02

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Xizang-Qinghai Border Region China	6/3	34.27N 89.11E	22:51(P)	13:14	RSP	1650	6/2	13:14
					RSP	1460	6/1	13:14
					X-RAY	1240	5/31	22:57
					X-RAY	1250	(6/1	23:12
X-RAY	1260	local)	23:20					
Southern California	6/3	39.33N 129.01W	13:09	4:02(F)	RSP	1780	6/3 (6/2 local)	3:28
					RSP	1650	6/2	13:14
					X-RAY	1660		13:27
RSP	1460	6/1	13:14					
Mid-Atlantic Ridge	6/3	37.26S 17.32W	8:19	17:59	RSP X-RAY	1620 1680	6/2	8:35 17:44
Off East Coast Of Honshu	6/3	34.36N 141.55E	19:19(P)	9:43	RSP	1710	6/2	9:23
					RSP	1400	6/1	9:35
					RSP (X-RAY)	1210 (1220)	5/31 (6/1 local)	1921 (20:02)
Kermadec Islands	6/3	30.48S 177.95W	18:45	5:00(F)	X-RAY RSP	1350 1540	6/2	4:22 4:36
Central Mid-Atlantic Ridge	6/2	4.74N 32.54W	8:15	20:05	X-RAY X-RAY	1120 1220	5/31	8:47 20:02
Taiwan	6/3	23.50N 121.53E	21:05(P)	10:36	RSP	1410	6/1	10:05
					RSP	1280	5/31 (6/1 local)	23:15
Aleutian Islands	6/2	52.25N 170.48W	15:06	7:38(F)	RSP	1480	6/1	15:13 7:33
					RSP	1380		
					RSP X-RAY	1160 1170	5/31	15:10 15:18
Central Mid-Atlantic Ridge	6/2	4.75N 32.77W	7:59	20:23	X-RAY	1220	5/31	20:02

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Kuril Islands	6/2	46.75N 152.83E	17:54(P)	9:36	RSP	1390	6/1	19:07
					X-RAY RSP	1190 1050	5/31 5/30 (5/31 local)	18:19 18:02
South of Kermadec Islands	6/2	32.86S 179.54W	18:56	4:59(F)	RSP	1540	6/1	4:36
					X-RAY RSP	1200 1210	5/31	19:07 19:21
Nicaragua	6/2	11.03N 85.98W	11:23	00:07(F)	RSP	1440	6/1	11:42
					X-RAY	1290	5/31	23:55
Off Coast of Costa Rica	6/1	9.77N 86.71W	11:26	00:08(F)	X-RAY	1290	5/31	23:55
Flores Sea	6/2	7.11S 125.30E	21:44(P)	9:28	RSP	1390	6/1	9:17
Southwest of Sumatra	6/2	6.17S 103.87E	23:07(P)	10:54	RSP	1420	6/1	10:39
					X-RAY X-RAY RSP	1250 1260 1260	5/31 (6/1 local)	23:12 23:20 23:27
Mid-Indian Ridge	6/2	9.01S 67.29E	1:39	13:17	RSP	1460	6/1	13:14
South of Panama	6/1	4.43N 81.77W	11:16	23:39	X-RAY	1250	5/31	23:12
					X-RAY	1260		23:20
					X-RAY	1150		Event Ends 11:19
Mendoza Province, Argentina	6/1	32.05S 68.04W	11:25	21:35	RSP	1280	5/31	21:15
Near Coast of Ecuador	6/1	0.73N 79.66W	11:13	23:24	X-RAY	1150	5/31	Event Ends 11:19
					X-RAY	1250		23:12
					X-RAY	1260		23:20
California	6/1	34.29N 116.88W	12:38	2:58(F)	-----	-----	-----	-----
Umiak Island Region	6/1	54.11N 163.20W	14:25	7:18(F)	(RSP)	(1160)	(5/31)	(15:10)

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
France	6/1	45.46N 6.58E	3:45	19:16	X-RAY X-RAY	1200 1100	5/31	19:07 4:23
Cook Straigh New Zealand	6/1	40.43S 174.52E	19:36(P)	5:01	X-RAY X-RAY	1100 1060	5/31 5/30 (5/31 local)	4:23 Event Ends 19:56
Off East Coast Of Honshu	6/1	34.53N 141.34E	19:21(P)	9:43	X-RAY	1060	5/30 (5/31 local)	Event Ends 19:56
Offshore Chiapas, Mexico	5/31	15.13n 93.99w	11:47	00:46(F)	X-RAY X-RAY	1090 10:40	5/31 (5/30 local) 5/30	00:07 00:29
Southwestern Siberia	5/31	50.33N 87.40E	22:03	14:12	-----	-----	-----	-----
Mid-Atlantic Ridge	5/31	8.15N 38.81W	8:18	20:53	RSP X-RAY	1070 1010	5/30 5/29	20:19 Event Ends 8:35
Java, Indonesia	5/31	7.86S 107.79E	22:55(P)	10:34	X-RAY RSP	970	5/28 (5/29 local)	22:58 22:59
New Mexico	5/30	36.93N 104.83W	11:42	2:17(F)	X-RAY	790	5/28	12:09
Kuril Islands	5/31	46.44N 149.51E	18:11(P)	9:47	X-RAY	900	5/28 (5/29 local)	18:34
Off Coast of North Island New Zealand	5/31	37.88S 177.56E	19:16(P)	4:56	-----	-----	-----	-----
Utah	5/30	39.74N 111.97W	12:35	3:12(F)	X-RAY X-RAY	1000 810	5/29 5/28	2:46 13:12
Ryuku Islands Japan	5/31	25.42N 126.52E	20:41(P)	10:20	X-RAY X-RAY	930 940	5/28 (5/29 local)	20:41 21:05
Adaman Islands, India	5/31	14.50N 93.83E	23:12(P)	12:09	RSP	1020	5/29	11:32
Western Iran	5/31	32.22N 49.22E	1:37	15:44	-----	-----	-----	-----
Kermadec Islands	5/31	31.01S 177.11W	18:38	4:55(F)	X-RAY		5/28 (5/29 local)	19:06

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Northern Iran	5/30	36.55N 51.63E	1:15	15:44	-----	-----	-----	-----
Off the Coast of South Island, NZ	5/31	45.71S 166.60E	20:22(P)	5:17	X-RAY	930	5/28 (5/29 local)	20:41
Molucca Sea	5/31	2.02N 126.89E	21:21(P)	9:34	X-RAY	930	5/28 (5/29 local)	Event End 21:21
Near Coast of Peru	5/30	17.21S 70.50W	11:06	22:16	X-RAY X-RAY	1020 780	5/29 5/28	11:32 11:12
Southern Alaska	5/30	61.08N 152.22W	12:49	7:27(F)	X-RAY	810	5/28	13:12
Kuril Islands	5/30	44.24N 147.51E	18:29(P)	9:44	X-RAY X-RAY X-RAY	900 910 680	5/28 (5/29 local) 5/27 (5/28 local)	18:34 19:06 Event End 18:31
Sakhalin Island	5/30	47.32N 142.12E	18:39(P)	10:19	X-RAY X-RAY X-RAY	900 910 770	5/28 (5/29 local)	Event End 18:39 19:06 10:03
Halamahara Indonesia	5/30	4.38N 128.23E	21:13(P)	9:35	X-RAY RSP RSP	940 760 690	5/28 (5/29 local) 5/27 (5/28 local)	Event End 21:21 8:55 21:41
Off the Southwest Coast Of Africa	5/30	52.45S 18.15E	6:45	14:44	RSP	730	5/28	7:11
Off East Coast of Honshu	5/30	34.19N 141.40E	19:23(P)	9:39	RSP X-RAY	760 910	5/28 5/28 (5/29 local)	Event End 8:58 19:06
Chile-Bolivia Border	5/29	20.41S 68.72W	11:05	22:03	X-RAY RSP	780 690	5/28 5/27	11:12 21:41
Korea	5/29	36.65N 129.98E	20:00(P)	10:30	X-RAY	770	5/28	10:13

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Northern Iran	5/29	36.46N 51.47E	1:16	15:45	-----	-----	----	----
Near East Coast of Honshu	5/29	37.84N 141.85E	19:09(P)	9:47	X-RAY	660	5/27	9:07
Northern Iran	May 29	36.36N 51.42E	1:18	15:44	-----	-----	----	----
Dominican Republic	May 28	19.45N 61.05W	9:25	22:38	RSP	580	5/26	22:16
Mariana Islands	May 29	12.47N 141.59E	20:05(P)	8:54	X-RAY RSP	750 (same event)	5/28	Event Ends 8:16
Northern Iran	May 28	36.41N 51.42E	1:18	15:44	-----	-----	----	----
Northern Iran	May 28	36.28N 51.62E	1:17	15:42	-----	-----	----	----
Rat Islands	May 28	51.25N 179.56W	15:51	8:03	RSP X-RAY	740 650	5/28 (5/27 local) 5/27 (5/26 local)	7:49 7:55
Kenai Peninsula	May 27	60.40N 150.82W	12:57	7:14	X-RAY X-RAY	640 450	5/27 (5/26 local) 5/25	Event Ends 6:48 13:19
Central Alaska	May 27	62.78N 150.65W	12:21	7:44	-----	-----	----	----
Central Alabama	May 27	33.22N 86.90W	10:43	00:52(F)	X-RAY RSP X-RAY X-RAY	590 600 560 520	5/27 (5/26 local) 5/26 (5/25 local)	00:21 00:48 11:05 00:36
Off Coast of Central America	May 27	12.91N 88.85W	11:29	00:21(F)	X-RAY X-RAY X-RAY	590 430 440	5/27 (5/26 local) 5/26	00:21 11:35 11:52

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Lake Baikal	May 27	54:18N 111.71E	20:11(P)	12:47	(X-RAY)	(440)	5/25	Event End 12:03
South of Kermadec Islands	May 27	32.56S 178.31W	18:45	4:57(F)	RSP X-RAY	540 500	5/26 5/25 (5/26 local)	4:53 Event End 18:50
Tajikistan	May 27	38.61N 70.19E	00:00	14:32	X-RAY RSP	520 400	5/26 5/25	00:36 00:42
Mariana Islands	May 27	26.67N 142.90E	19:33(P)	9:13	-----	-----	-----	-----
Southern Peru	May 26	16.65S 71.86W	11:10	22:23	X-RAY X-RAY RSP	430 300 360	5/25 5/24 5/24	11:35 Event End 11:13 22:01
Southwest of Africa	May 26	52.67S 18.60E	6:39	14:43	-----	-----	-----	-----
Baja Mexico	May 26	26.84N 112.24W	12:36	2:18(F)	(X-RAY)	(450)	5/25	13:19
Tajikistan	May 26	38.87N 70.30E	23:56(P)	14:35	-----	-----	-----	-----
Central California	May 26	35.52N 120.81W	12:53	3:13(F)	X-RAY	450	5/25	13:19
Near Coast of Jalisco, Mexic	May 26	18.26N 105.25W	12:25	1:33(F)	RSP	410	5/25 (5/24 local)	00:53
Southwest Of Africa	May 26	52.73S 18.58E	6:39	14:43	-----	-----	-----	-----
Hokkaido, Japan	May 26	42.07N 144.13E	18:53(P)	9:48	-----	-----	-----	-----
Chile/Bolivia Border	May 26	21.05S 68.26W	11:01	22:00	X-RAY X-RAY RSP	450 300 360	5/25 5/24	11:35 Event End 11:18 22:01

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Central Peru	May 25	8.31S 74.14W	11:04	22:44	X-RAY RSP RSP X-RAY X-RAY X-RAY	300 360 370 150 230 240	5/24 5/23	Event End 11:18 22:01 22:32 11:50 22:02 22:29
Andreanof Islands, Alaska	May 25	51.40N 174.65W	15:33	7:43(F)	-----	-----	-----	-----
Banda Sea	May 26	6.98S 125.07E	21:45(P)	9:28	RSP X-RAY	360 230	5/24 5/23	22:01 22:02
Near Coast of Chiapas, Mexico	May 25	14.97N 93.83W	11:46	00:43 (F)	RSP	400	5/25 (5/24 local)	00:43
France	May 26	44.44N 6.74W	4:51	20:01	-----	-----	-----	-----
South of Kermadec Islands	May 26	34.09S 179.63W	19:06	4:49	-----	-----	-----	-----
Near Coast of Jalisco, Mexico	May 25	18.05N 105.80W	12:30	1:35(F)	RSP	410	5/25 (5/24 local)	00:53
North Island of New Zealand	May 26	39.57S 175.25E	19:25(P)	5:05	RSP X-RAY	340 220	5/24 5/23 5/24 local)	4:34 19:44
Switzerland	May 25	46.64N 6.20E	3:48	19:16	-----	-----	-----	-----
Northern Italy	May 25	45.97N 7.91E	3:41	19:05	-----	-----	-----	-----
Cook Straight New Zealand	May 26	40.42S 173.35E	19:34	5:10(F)	RSP X-RAY	340 220	5/24 5/23 (5/24 local time)	4:34 19:44
Northern Chile	May 25	27.41S 69.21W	11:17	21:52	X-RAY X-RAY	300 150	5/24 5/23	Event End 11:18 11:30
Off West Coast Of South Island New Zealand	May 26	45.31S 166.98E	20:13(P)	5:20	----	----	----	---

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Northern Italy	May 25	44.53N 7.19E	3:49	19:07	(RSP)	(310)	5/24	(4:34)
Minahasa, Indonesia	May 25	1.73N 121.93E	21:40(P)	9:54	X-RAY	230	5/23	22:02
France	May 25	44.49N 6.79E	3:52	19:03	RSP	340	5/24	4:34
Peru-Ecuador Border	May 25	4.47S 80.08W	11:22	23:14	X-RAY	380	5/24	22:39
					X-RAY	150	5/23	11:30
Central California	May 25	35.72N 121.06W	12:50	3:13(F)	X-RAY	260	5/24	2:51
Near Coast Of Central Chile	May 25	36.62S 71.73W	11:49	21:43	-----	-----	-----	-----
Switzerland	May 25	46.28N 7.20E	3:47	19:09	-----	-----	-----	-----
Hungary	May 25	47.38N 17.17E	3:02	18:34	X-RAY	270	5/24	3:14
					XRAY RSP	200 210	5/23	17:58 18:17
Tonga Region	May 25	18.62S 172.85W	17:58	5:03(F)	RSP	340	5/24	4:34
					X-RAY	200	5/23	17:58
Puerto Rico	May 25	19.25N 65.35W	9:44	22:54	-----	-----	-----	-----
Southeast Island, New Zealand	May 25	44.92S 167.66E	20:11(P)	5:18	RSP	120	5/23	5::17
Dodecanese Islands	May 25	35.98N 27:17e	2:56	17:21	X-RAY	270	5/24	3:14
France	May 25	44.53N 6.71E	3:49	19:08	(RSP)	(340)	5/24	4:34
Fiji	May 25	17.85S 178.54W	18:18	5:27(F)	RSP	210	5/23	18:17
Southeast of Loyalty Islands	May 25	22.05S 169.28E	19:11(P)	6:07	X-RAY	220	5/23 (5/24 local)	19:44
					RSP	1:30	5/23	5:33
East coast of Kamchatka	May 25	54.74N 160.06E	16:55(P)	9:39	X-RAY	190	5/23 (5/24 local)	17:35
					X-RAY	70	5/22 (5/23 local)	17:20

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
India/ Myanmar Border	May 25	27.04N 97.24E	22:38(P)	12:17	X-RAY	150	5/23	Event ends 11:43
New Mexico	May 24	34.46N 106.91W	12:00	2:14	X-RAY	250	5/24 (5/23 local)	2:08
Saipan, Mariana Islands	May 25	15.96N 145.73E	19:42(P)	8:42	X-RAY X-RAY	220 90	5/23 5/22	19:44 20:01
South of Kermadec	May 25	32.39S 178.26W	18:44	4:58	RSP	340	5/24	4:34
Xinjiang, China	May 24	41.03N 77.94E	23:20(P)	14:05	X-RAY RSP X-RAY	170 9890 9900	5/23 5/21 (5/22 local)	13:48 23:26 23:35
Myanmar	May 24	24.69N 95.20E	22:50(P)	12:21	X-RAY RSP X-RAY RSP	150 9970 9980 9890	5/23 5/22 5/21 (5/22 local)	End 11:43 11:40 11:45 23:26
Off Coast of Costa Rica	May 23	9.61N 85.92W	11:24	00:02	RSP X-RAY	9890 9900	5/22	23:32 23:35
Iran	May 24	34.14N 46,73E	1:44	15:53	X-RAY	180	5/22	Event End 15:13
Reykjanes Ridge	May 23	53.53N 35.30W	6:06	22:33	RSP X-RAY	9940 9880	5/22 5/21	6:13 22:13
Southern Sumatra	May 24	5.28S 102.66E	23:09(P)	11:00	RSP X-RAY	9890 9900	5/21 (5/22 local)	23:26 23:35
Bosnia-Herzegovina	May 23	43.43N 17.53E	3:11	18:20	X-RAY X-RAY	70 9760	5/22 5/21	Event ended 17:59 3:37
Papua New Guinea	May 24	6.18S 151.56E	19:55(P)	7:43	X-RAY X-RAY X-RAY	90 9950 9870	5/22 5/21 (5/22 local)	20:01 7:02 20:32

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Chiapas, Mexico	May 23	15.46N 92.80W	11:43	00:39(F)	X-RAY RSP X-RAY	9980 9810 9900	5/22 5/21	11:45 12:07 Event Ended 23:59
West of Galapagos Islands	May 23	2.41N 99/21W	12:27	00:42(F)	X-RAY X-RAY	9990 10	5/22	Event ends 12:32 12:55
New Mexico	May 23	32.53N 103.56W	11:51	1:54(F)	X-RAY X-RAY RSP	9980 9910 9810	5/22 5/21	Event ends 12:06 1:16 12:07
West of Galapagos Islands	May 23	2.24N 99.24W	12:27	00:42(F)	X-RAY X-RAY	9990 10	5/22	Event ends 12:32 12:55
Xizang-Qinghai China	May 23	34.08N 89.29E	22:55(P)	13:03	XRAY X-RAY RSP X-RAY	9990 10 9890 9900	5/22 5/21	12:23 12:55 23:26 23:35
Kepulan Barat Daya Indonesia	May 23	7.32S 128.48E	21:29(P)	9:14	-----	-----	-----	-----
Southeast of Easter Island	May 22	35.26S 101.88W	13:45	23:48	RSP X-RAY	9890 9900	5/21	23:26 23:35
Tonga Region	May 22	18.64S 172.58W	17:55	5:02	-----	-----	-----	-----
Central Alaska	May 22	63.47N 148.25W	12:14	7:29(F)	X-RAY	9950	5/22 (5/21 local)	7:02
Tonga	May 22	20.83S 174.21W	18:05	5:04(F)	-----	-----	-----	-----
Banda Sea	May 22	7.63S 123.05E	21:53(P)	9:36	X-RAY	9670	5/20	8:56
Solomon Islands	May 22	10.43S 161.29E	19:24(P)	6:58	X-RAY	9580	5/19	19:29
Off Coast of Central Amer.	May 21	12.29N 88.44W	11:29	00:14(F)	-----	-----	-----	-----
South of Kerm. Islands	May 21	32.24S 178.08W	18:39	4:59(F)	X-RAY	9710	5/20	4:40
Hokkaido	May 21	43.72N 144.66E	18:47(P)	9:46	RSP	9570 9470	5/19 5/18	Ends 19:01 18:58

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Off Coast of Central America	May 21	4.28N 84.68W	11:27	23:47	-----	-----	-----	-----
Mindanao, Philippines	May 21	9.82N 126.26E	21:12	9:50	----	----	----	----
Michoacan Mexico	May 20	18.37N 102.70W	12:17	1:22(F)`	XRAY XRAY XRAY RSP	9630 9520 9530 9400	May 20 May 19 May 19 (May 18 local) May 18	1:09 00:52 1:18 12:38
Aleutian Islands	May 20	51.62N 173.40W	15:31	7:32 (F)	X-RAY	9420	May 18	15:50
Ionian Sea	May 21	37.94N 20.76E	3:18	17:45	X-RAY X-RAY	9660 9700	May 20	Event Ends 3:25 17:14
Northern Xinjiang, China	May 21	42.45N 85.17E	22:51(P)	13:41	-----	-----	-----	-----
Taiwan	May 21	21.93N 121.31E	21:11(P)	10:30	RSP	9490	May 18 (May 19 local)	21:21
Santa Cruz Islands	May 21	12.43S 166.63E	19:04(P)	6:33	X-RAY	9580	May 19 (May 20 local)	19:29
Crete	May 20	35.96N 23.42E	3:14	17:30	XRAY X-RAY RSP RSP	9540 9550 9300 9430	May 19 May 18	3:42 3:54 3:55 17:30
Adriatic Sea	May 20	41.03N 19.23E	3:19	17:59	XRAY X-RAY RSP RSP RSP	9540 9550 9300 9430 9450	May 19 May 18	3:42 3:54 3:55 17:30 17:59

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Nevada	May 20	37.31N 114.82W	12:27	2:49(F)	RSP	9400	May 18	12:38
Afghanistan	May 20	33.37N 68.44E	00:21	14:23	X-RAY RSP	9520 9410	May 19 May 18	00:52 14:20
Sea of Japan	May 20	43.13N 136.42E	19:24(P)	10:16	RSP X-RAY	9370 9480	May 18 May 18 (May 19 local)	10:08 20:18
El Salvador	May 20	13.36N 89.78W	11:34	00:22(f)	RSP	9380	May 18	11:55
Greece	May 20	38.84N 22.19E	3:13	17:42	X-RAY X-RAY RSP	9540 9550 9430	May 19 May 19 May 18	3:42 3:54 17:30
Aegean Sea	May 20	38.60N 24.11E	3:06	17:34	X-RAY RSP	9540 9430	May 19 May 18	3:42 17:30
Dodecanese Islands	May 20	36.23N 28.25E	2:56	17:10	X-RAY	9420	May 18	16:35
Alamagan, Marianna Islands	May 20	17.66N 145.93E	19:39(P)	8:42	X-RAY X-RAY	9480 9350	May 18 (May 19 local) May 18	20:18 8:12
Coast of Central Chile	May 20	35.54S 71.02W	11:38	21:43	RSP RSP RSP	9380 9390 9490	May 18 May 18 May 19 (May 19 local)	11:55 12:06 21:21
Central Chile	May 20	35.17S 71.21W	11:37	21:46	RSP RSP RSP	9380 9390 9490	May 18 May 18 May 19 (May 19 local)	11:55 12:06 21:21

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Ionian Sea	May 20	37.83N 20.64E	3:20	17:45	X-RAY X-RAY RSP	9540 9550 9430	May 19 May 18	3:42 3:54 17:30
Northern Chile	May 20	24.59S 69.39W	11:10	22:00	RSP	9490	May 18	21:21
Azores Islands	May 20	35.59N 34.26W	7:08	21:22	X-RAY	9340	May 18	7:28
South of Fiji	May 20	26.44S 176.74W	18:25	5:04(F)	X-RAY RSP	9470	May 18 (May 19 local)	18:58
Southwest of Africa	May 20	52.26S 14.02E	22:24(P)	6:48	RSP X-RAY	9210 9560	May 17 (May 18 local) May 19	22:37 6:37
Ionian Sea	May 20	37.87N 20.58E	3:21	17:45	X-RAY X-RAY X-RAY RSP	9540 9550 9300 9430	May 19 May 18	3:42 3:54 3:55 17:30
Central Chile	May 20	29.01S 70.30W	11:21	21:56	RSP RSP	9380 9490	May 18	11:55 21:21
Tonga	May 20	15.16S 173.73W	17:53	5:14(F)	RSP RSP	9450 9440	May 18 (May 19 local)	17:59 18:00
Hindu Kush Afghanistan	May 20	36.51N 71.38E	00:02	14:18	(RSP)	(9410)	May 18	14:20
Cook Strait New Zealand	May 20	40.50S 173.91E	19:27(P)	5:10	-----	-----	-----	-----
Dodecanese Islands	May 20	36.06N 27.00E	3:02	17:15	RSP	9540	May 19	3:42
Aegean Sea	May 20	38.15N 24.13E	3:08	17:32	RSP RSP	9540 9530	May 19	3:42 17:30
Greece	May 20	38.32N 23.38E	3:10	17:35	RSP RSP	9540 9530	May 19	3:42 17:30
Chile Argentina Border	May 19	32.55S 70.90W	11:33	21:52	RSP RSP	9380 9390	May 18	11:55 12:06

Location Of Quake	Date of Quake (local time)	Lat/ Long	Sunrise At Location (UTC)	Sunset At Location (UTC)	Corresponding Solar Event Type	Event Number	Event Date	Event Time (UTC)
Chile-Argentina Border	May 19	34.91S 70.14W	11:34	21:41	RSP RSP RSP	9380 9390 9490	May 18	11:55 12:06 21:21
Vanuatu	May 20	19.44S 169.02E	19:07(P)	6:14	X-RAY	9330	May 18	6:08
Phillipines (Negros/Cebu)	May 20	9.91N 123.91E	21:19(P)	9:58	RSP	9490	May 18 (May 19 local)	21:21
Ryuku Islands	May 20	27.37N 128.34E	20:39(P)	10:11	RSP	9370	May 18	10:08
Guam	May 20	12.33N 143.41E	20:00(P)	8:44	X-RAY X-RAY	9480 9350	May 18 (May 19 local)	20:18 8:12
Southern Xinjiang, China	May 20	40.19N 77.50E	23:28(P)	14:03	-----	-----	-----	-----
East of South Sandwich Islands	May 19	58.20S 11.58W	9:02	16:27	RSP	9420	May 18	16:16
Izu Islands, Japan	May 19	33.11N 139.62E	19:37	9:36(P)	-----	-----	-----	-----
Fox Islands	May 19	52.20N 167.23W	15:05	7:08 (F)	X-RAY X-RAY	9560 9200	May 19 (May 18 local) May 17	6:37 15:43
San Juan, Argentina	May 19	31.89S 69.16W	11:24	21:43	RSP	9380	May 18	11:55
Santa Cruz, Islands	May 19	12.51S 166.41E	19:05(P)	6:34	X-RAY	9330	May 18	6:08
Northwest of New Zealand	May 19	34.95S 171.24E	19:27 (P)	5:35	X-RAY	9310	May 18	5:32
Taiwan	May 19	24.20N 122.27E	21:05(P)	10:29	RSP RSP	9090 9370	May 16 (May 17 local) May 18	21:21 10:08
Tonga	May 19	18.14S 172.51W	23:28	5:04(f)	-----	-----	-----	-----

Table C: Correspondence between solar events and earthquakes in the Qinghai and Xinjiang regions of China from 1985-2005:

This table looks at events of magnitude 5 or higher from 1985-02005

Event Date (Local)	Lat	Long	Mag.	Sunrise (UTC)	Sunset (UTC)	Solar Event	Solar Event Date	Solar Event Time
6/20/86	31.24	86.85	6.1	23:06(P)	13:18	----		
7/07/86	34.42	80.16	6.1	23:31(P)	13:56	X-ray	7/05 (7/06 local)	23:49
8/21/86	34.57	91.63	6.5	23:15(P)	12:35	----		
1/06/87	41.96	81.32	5.9	2:04	11:14	---		
2/26/87	38.10	91.18	5.7	00:33	11:43	---		
6/05/87	41.58	88.74	6.2	22:18(P)	13:45	---		
12/22/87	41.36	89.64	5.9	1:33	10:33	X-ray	12/21	10:10
11/05/88	34.35	91.88	6.3	00:14	10:53	11/03 11:03 11/04 11:04 11:04 11/04	X-ray RSP X-ray RSP RSP X-ray	00:15 9:45 00:15 00:20 00:23 10:30
11/26/88	34.33	91.93	5.6	00:33	10:41	11/24 11/25	RSP RSP	00:50 00:54
2/03/89	30.23	89.96	5.5	00:48	11:36	2/1 2/2	X-ray X-ray	1:12 11:24
1/14/90	37.82	91.97	6.1	1:06	10:51	1/12 1/12	RSP RSP	1:07 1:16
6/02/90	32.48	92.80	5.6	22:39(P)	12:50	5/31 5/30 (5/31 local) 5/31 (6/1 local) 5/31 (6/1 local)	X-ray RSP X-ray RSP	12:40 22:38 22:40 23:17
8/16/90	41.56	81.77	6.2	23:11(P)	13:03	8/14 8?15	RSP RSP	12:30 12:49

Event Date (Local)	Lat	Long	Mag.	Sunrise (UTC)	Sunset (UTC)	Solar Event	Solar Event Date	Solar Event Time
4/05/92	35.70	80.66	5.7	00:16	13:01	4/3 4/3 4/4	X-ray RSP RSP	12:25 12:45 00:40
5/21/92	41.60	88.81	6.5	23:37(P)	13:22	5/19 5/20	X-ray RSP	Event ends 12:44 12:54
1/18/93	30.04	90.37	5.9	00:54	11:22	1/16 1/16 1/17	X-ray RSP X-ray	1:26 11:15 00:55
2/02/93	42.22	86.13	5.7	1:28	11:30	(1/30) 2/1 2/1	(X-ray) X-ray X-ray	(2/16) 1:55 10:57
10/02/93	38.19	88.66	6.3	00:00	11:46	10/1 10/01 10/1	X-ray RSP X-ray	00:15 00:24 11:21
6/10/94	41.53	88.71	5.8	22:28(P)	13:37	6/09	RSP	13:17
6/29/94	32.57	93.67	5.9	22:38(P)	12:56	6/27	RSP	12:40
8/25/94	34.24	91.81	5.5	23:18(P)	12:28	(6/28)	(X-ray)	(Event peaks 11:41)
10/0794	41.66	88.75	6.0	00:06	11:35	10/05 10/05 10/05	X-ray X-ray RSP	00:27 00:36 11:35
12/29/94	35.65	80.66	5.5	1:46	11:29	(12/27) 12/28	(RSP) X-ray	(10:47) 10:54
5/02/95	43.78	84.66	6.0	23:10(P)	13:24	--	--	--
5/15/95	41.60	88.82	6.1	22:43(P)	13:15	5/13 5/14 5/14	X-ray RSP X-ray	12:49 12:35 12:46

Event Date (Local)	Lat	Long	Mag.	Sunrise (UTC)	Sunset (UTC)	Solar Event	Solar Event Date	Solar Event Time
8/17/95	41:56	88.80	6.0	23:12(P)	13:01	(8/14 [8/15 local])	(RSP)	(22:55)*
6/08/96	41.66	88.69	5.9	22:28(P)	13:88	6/06 (6/07 local)	X-ray	Event ends 22:35
7/03/96	30.15	88.19	5.7	23:09(P)	13:12	7/01	X-ray	12:31
						7/01	RSP	12:33
11/08/97	35.07	87.32	7.9	00:37	11:09	11/06 (11/07)	RSP (X-ray)	00:55 (Event peaks 00:22)*
7/20/98	30.13	88.17	5.8	23:18(P)	13:08	---	--	--
8/25/98	30.08	88.11	5.9	23:40(P)	12:39	8/24	RSP	00:00
1/30/99	41.67	88.46	5.9	1:21	11:16	1/28	X-ray	10:45
3/15/99	41.89	82.69	5.5	00:41	12:33	3/13	RSP	12:31
						3/14	X-ray	1:19
1/05/00	32.22	92.70	5.5	00:49	10:56	(1/04)	(X-ray)	(10:12)
1/31/00	38.11	88.60	5.5	1:11	11:24	1/30	RSP	10:55
						1/30	RSP	10:58
						1/30	RSP	11:02
						1/30	RSP	11:21
7/10/00	32.79	92.20	5.6	22:49	13:03	7/07 (7/08 local)	RSP	23:09
						7/08 (7/09 local)	RSP	23:07
						7/08 (7/09 local)	RSP	23:21
						7/08	X-ray	13:02

Event Date (Local)	Lat	Long	Mag.	Sunrise (UTC)	Sunset (UTC)	Solar Event	Solar Event Date	Solar Event Time
3/5/01	34.37	86.90	5.9	00:34	12:09	3/03 3/03	X-ray RSP	1:05 1:07
						3/03	X-ray	11:33
						3/04	X-ray	11:53
11/14/01	35.95	90.54	8.0	00:33	10:49	11/12	RSP	00:42
						11/12	RSP	1:08
						11/13	X-ray	10:14
11/14/01	35.73	93:38	5.6	00:21	10:38	11/12	RSP	00:42
						11/12	RSP	1:08
						11/13	X-ray	10:14
6/29/02	34.13	94.50	5.6	22:31(P)	12:57	6/26 (6/27 local)	RSP	22:58
						6/26 (6/27 local)	RSP	23:01
						6/27	RSP	12:25
						6/28	RSP	12:32
7/07/03	34.61	89.47	5.8	22:53(P)	13:18	7/5 (7/6 local)	RSP	23:20
12/01/03	42.90	80.51	6.0	1:49	11:02	11/29	RSP	10:32
3/07/04	31.64	91.24	5.6	00:15	11:57	(3/06)	(RSP)	(00:10)*
						3/06	RSP	11:21
						3/06	RSP	11:56

Event Date (Local)	Lat	Long	Mag.	Sunrise (UTC)	Sunset (UTC)	Solar Event	Solar Event Date	Solar Event Time
3/28/04	33.95	89.18	6.0	23:57(P)	12:20	3/27	RSP	11:55
8/24/04	32.54	92.19	6.7	23:20(P)	12:26	---		

Table D: Earthquakes in Tibet

Table D shows the correspondence between solar events and earthquakes of magnitude 5 or higher within Tibet between 1985 and 2005.

Event Date	Lat	Long	Mag	Sunrise UTC	Sunset UTC	Solar Event	Solar Event Date	Solar Event Time
5/22/85	30.89	73.39`	5.0	00:05	13:59	--	--	--
1/08/86	26.93	88.32	5.0	00:58	11:27	---	---	---
2/20/86	25.14	91.18	5.3	00:26	11:51	---	---	---
4/26/86	32.13	76.37	5.5	00:13	13:30	X-ray	4/24	00:39
7/17/86	31.05	78.00	5.6	23:55 (P)	13:52	X-ray RSP	7/14 (7/15 local) 7/15 (7/16 local)	23:55 23:52
9/10/86	25.39	92.08	5.2	23:35 (P)	12:02	(RSP)	9/8	(11:20)
1/19/87	28.39	83.68	5.2	1:17	11:51	--	--	--
8/10/87	29.50	83.71	5.6	23:47 (P)	13:10	X-ray X-ray X-ray X-ray	8/7 (8/8 local) 8/8 8/8 (8/9 local) 8/9	Event ends 23:59 Event ends 12:49 23:52 12:47
9/06/87	26.69	93.41	5.1	23:20 (P)	12:19	X-ray	9/3 (9/4 local)	23:37
8/21/88	26.75	86.62	6.8	23:53 (P)	12:28	---	---	---
3/09/89	26.99	92.75	5.1	00:04	11:52	RSP RSP X-ray RSP RSP	3/7 3/8	00:08 11:48 Event Ends 11:19 00:30 11:52

Event Date	Lat	Long	Mag	Sunrise UTC	Sunset UTC	Solar Event	Solar Event Date	Solar Event Time
4/30/90	26.44	93.32	5.3	23:09 (P)	12:18	RSP X-ray	4/28 4/28 (4/29 local)	11:57 23:38
9/02/90	26.65	92.67	5.2	23:03 (P)	12:07	RSP RSP RSP	8/30 (8/31 local) 8/31 9/1	23:27 11:46 11:52 11:51
9/21/90	29.74	79.79	5.1	00:26	12:37	X-ray X-ray	9/19 9/20	00:38 00:47
10/20/91	30.78	78.77	7.0	00:49	12:06	X-ray RSP RSP	10/19 10/18 10/19	Event Begins 11:22 11:47 11:33
12/30/90	26.62	92.58	5.0	00:37	11:04	X-ray	12/29	10:59
6/23/91	26.64	93.19	5.3	22:53 (P)	12:44	RSP X-ray RSP X-ray X-ray RSP	6/20 (6/21 local) 6/21 6/22	23:14 12:11 12:28 23:00 12:05 12:25
10/20/91	30.79	78.69	5.3	00:49	12:07	X-ray RSP RSP	10/19 10/18 10/19	Event Begins 11:22 11:47 11:33
12/09/91	29.54	81.63	5.6	1:15	11:32	---	---	---

Event Date	Lat	Long	Mag	Sunrise UTC	Sunset UTC	Solar Event	Solar Event Date	Solar Event Time
2/25/92	25.19	92.22	5.0	00:18	11:50	X-ray RSP X-ray RSP RSP	2/23 2/24	00:33 00:40 Event peaks at 11:16, ends 11:55 11:44 00:45
6/3/92	28.98	81.91	5.2	23:30	13:27	X-ray X-ray RSP	5/31 (6/1 local) 6/1 5/31 (6/1 local)	23:47 Event Ends 13:05 23:54
12/12/92	25.47	91.41	5.0	00:30	11:04	X-ray RSP X-ray	12/10 12/11	10:43 10:26 10:42
10/20/93	28.78	82.26	5.0	00:35	11:55	--	--	--
10/20/93	28.72	82.28	5.1	00:34	11:55	---	---	---
7/17/94	29.15	81.37	5.0	23:45	13:34	X-ray X-ray	7/14 (7/15 local) 7/16	23:55 13:19
4/01/96	31.50	73.46	5.5	00:54	13:25	---	---	---
11/08/96	29.34	81.64	5.0	00:50	11:40	---	---	---
1/05/97	29.84	80.53	5.6	1:34	11:50	---	---	---
3/22/97	32.93	84.61	5.4	00:21	12:33	---	---	---
7/18/97	26.81	91.79	5.0	23:07 (P)	12:47	---	---	---

Event Date	Lat	Long	Mag	Sunrise UTC	Sunset UTC	Solar Event	Solar Event Date	Solar Event Time
5/11/98	27.10	71.80	5.2	00:25	13:49	X-ray X-ray RSP RSP X-ray X-ray RSP RSP	5/09 5/10	Event ends at 00:37 Event Begins 13:05 1:05 13:29 00:44 13:13 00:29 13:28
12/02/98	26.34	93.50	5.0	00:16	10:52	RSP X-ray X-ray	11/30	00:22 Event Ends 00:57 10:12
3/29/99	30.51	79.40	6.6	00:35	12:58	X-ray	3/28	Event Ends 00:37
3/29/99	30.32	79.39	5.4	00:35	12:58	X-ray	3/28	Event Ends 00:37
3/31/99	30.38	79.33	5.3	00:33	13:00	RSP	3/29	00:56
4/07/99	30.41	79.32	5.1	00:25	13:04	RSP RSP	4/5 4/6	12:59 1:01
10/05/99	26.26	91.93	5.3	23:44 (P)	11:33	RSP	10/4	10:53

Event Date	Lat	Long	Mag	Sunrise UTC	Sunset UTC	Solar Event	Solar Event Date	Solar Event Time
11/27/01	29.61	81.75	5.6	1:06	11:31	X-ray X-ray RSP X-ray RSP	11/25 11/26	Event Ends 1:23 11:14 1:12 Event End 1:07 Event Ends 1:06
11/27/01	29.55	81.75	5.4	1:06	11:31	X-ray X-ray RSP X-ray RSP	11/25 11/26	Event Ends 1:23 11:14 1:12 Event End 1:07 Event Ends 1:06
11/28/01	29.51	81.74	5.1	1:08	11:33	X-ray RSP	11/26	Event End 1:07 Event Ends 1:06

Event Date	Lat	Long	Mag	Sunrise UTC	Sunset UTC	Solar Event	Solar Event Date	Solar Event Time
6/04/02	30.59	81.44	5.6	23:30	13:33	X-ray	6/1 (6/2 local)	23:45
						RSP RSP		23:46 23:56
						X-ray RSP	6/2	00:10 12:56
						X-ray RSP RSP	6/3	13:02 13:07 13:25
7/12/04	30.69	83.67	6.2	23:28	13:30	X-ray	7/11	13:16
7/29/04	30.71	83.63	5.1	23:39	13:21	RSP	7/26 (7/27 local)	23:42
						RSP	7/27 (7/28 local)	23:48
10/26/04	31.02	81.15	6.0	00:46	11:52	(X-ray) X-ray	(10/24)	(1:28) 11:38
4/08/05	30.49	83.66	6.3	00:04	12:47	X-ray	4/6	Event Ends at 00:12
						RSP	4/7	12:24
4/08/05	30.59	83.68	5.4	00:04	12:47	X-ray	4/6	Event Ends at 00:12
						RSP	4/7	12:24
4/08/05	30.32	83.76	5.1	00:04	12:46	X-ray	4/6	Event Ends at 00:12
						RSP	4/7	12:24
4/09/05	30.53	83.67	5.1	00:03	12:48	RSP	4/7	12:24
10/31/05	29.73	81.86	5.0	00:19	12:54	---	---	---
11/01/05	28.39	84.86	5.1	00:30	11:33	---	---	---
11/06/05	29.73	81.87	5.0	00:48	11:39	RSP	11/04	00:52
12/14/05	30.48	79.25	5.3	1:08	11:45	X-ray	12/12	1:22

