Strong earthquake activity all over the world and strong-moderate earthquake activity within and near China (February 2008~March 2008)

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Illustration

All the data in this catalog are chosen from the "Preliminary Seismological Report of Chinese Seismic Stations" (Its abbreviation is "Monthly Report"). The catalog includes the events of $M \geq 4.7$ in and near China and $M \geq 6$ all over the world. The "Monthly Report" is monthly compiled by the Ninth Section of Institute of Geophysics, China Earthquake Administration.

The origin times of earthquakes in the catalog adopt coordinated universal time (UTC) in accordance with international convention. The location of every epicenter is expressed by its latitude and longitude, at the same time by the corresponding geographical region proposed by Flinn and Engdahl. The regional names are only for references and do not imply any political significance. The number of stations used and standard deviation are also given in order to illustrate the precision of location.

The surface wave magnitude M_S is measured from the records of intermediate period broad band SK seismographs and adopting the surface wave magnitude formula of Beijing Station of 1965: $M_S = \lg(A_H/T) + 1.66 \lg \Delta + 3.5$ ($1^\circ < \Delta < 130^\circ$), in which A_H is the resultant displacement amplitude of the maximum surface wave of horizontal components. M_{S7} is measured from records of the long-period seismographs of 763 type and adopting the surface wave magnitude formula recommended by IASPEI in 1967. $M_{S7} = \lg(A_V/T) + 1.66 \lg \Delta + 3.3$ ($20^\circ < \Delta < 160^\circ$), in which A_V is the maximum ground displacement of surface wave in vertical component, m_b is short-period body-wave magnitude. M_L is local magnitude. In order to avoid confusion, no conversion is made among the various magnitudes. For convenience of use and comparison, the surface wave magnitude M_{SZ} (NEIS) and m_b (NEIS) measured by NEIS recorded on short period seismographs are also listed.

Catalog of earthquakes within and near China
(February 2008~March 2008; $M \geq 4.7$)

No.	Origin time (UTC)		Geographic coordinates		Focal depth /km	Magnitudes						SD	No. sta. used	Region
	d	h:min:s	$\varphi_N/^{\circ}$	$\lambda_E/^{\circ}$		China			NEIS					
						M_S	M_{S7}	M_L	m_b	M_{SZ}	m_b			
February 2008														
1	17	20:33:0.7	23.31	121.45	21	5.5	5.3	5.1	4.8	5.3	5.3	1.7	80	Taiwan
2	19	16:57:09.5	20.35	121.11	30	5.0	4.9	4.7	5.0		5.5	1.5	78	Philippine Islands region
3	26	17:50:01.9	30.13	102.04	22	4.9	4.5	5.0	4.7		4.9	2.1	77	Sichuan
4	27	18:54:08.8	24.82	122.16	17	4.5	4.3	4.7	4.2		4.9	2.2	49	Taiwan
5	29	16:58:04.4	24.11	122.60	34	4.7	4.7	4.8	4.8		5.1	1.6	75	Taiwan region
March 2008														
6	1	09:22:25.7	35.55	75.45	6	4.4	4.2	4.7	4.5		4.4	2.0	41	North-Western Kashmir
7	3	07:21:08.0	40.45	77.36	33	3.8	3.8	3.6	4.8			2.7	9	Southern Xinjiang
8	4	17:31:46.2	23.11	120.80	22	5.4	5.2	5.1	4.6	4.8	5.1	1.9	75	Taiwan
9	6	13:58:02.4	26.37	118.54	16	4.4	4.1	5.0	4.4		4.5	2.1	40	Near south-eastern coast of China
10	20	22:32:58.7	35.64	81.54	21	7.5	7.3	6.6	6.0	7.3	6.3	1.3	82	Southern Xinjiang
11	20	22:38:50.9	35.02	81.24	15	5.2	5.3	5.6	4.8			1.9	8	Tibet
12	20	22:50:0.6	35.75	81.70	27			5.4	5.2		5.0	2.3	14	Southern Xinjiang
13	20	22:50:30.4	35.61	81.11	15	6.2	6.0		5.3		5.2	2.0	20	Kashmir-Tibet border region
14	20	22:57:20.3	35.03	80.60	30			4.8	5.4		5.0	3.9	5	Tibet
15	20	23:12:02.0	35.66	81.55	20	5.8	5.5	5.6	5.2		5.6	1.4	64	Southern Xinjiang
16	20	23:50:06.5	35.50	81.53	12	5.2	5.1	5.0	4.7		5.1	1.5	54	Southern Xinjiang
17	20	23:54:24.5	35.36	81.12	14			4.7	4.5		4.3	2.9	6	Tibet
18	20	23:55:02.1	35.56	81.52	13			4.8	4.8		4.8	2.8	15	Southern Xinjiang
19	21	00:10:36.3	35.54	81.57	10	5.0	4.9	5.3	4.7		4.9	1.8	55	Southern Xinjiang
20	21	00:26:13.4	35.63	81.53	15	5.2	5.0	5.8	4.8		5.3	1.6	67	Southern Xinjiang
21	21	01:08:51.5	35.56	81.57	17	4.6	4.5	5.0	4.6		4.7	1.7	52	Southern Xinjiang
22	21	04:03:25.6	35.68	81.62	10	4.8	4.7	5.0	4.7		5.0	1.7	65	Southern Xinjiang
23	21	06:16:03.4	35.78	81.62	19	4.7	4.5	4.9	4.7		4.9	1.5	62	Southern Xinjiang
24	21	12:02:54.5	35.46	81.47	14	4.9	4.6	5.3	4.7	4.7	5.0	1.6	66	Tibet
25	21	12:36:54.7	24.40	97.71	13	5.2	4.9	5.1	4.5	4.8	4.8	2.0	66	Myanmar China border region
26	21	18:06:46.9	35.75	81.65	10	4.4	4.1	4.8	4.4		4.7	1.8	45	Southern Xinjiang
27	21	20:52:16.2	35.22	81.35	24	4.6	4.3	5.0	4.6	4.6	4.7	2.1	41	Tibet
28	23	20:56:13.0	35.84	81.63	11	4.9	4.7	5.1	4.8	4.8	5.0	1.7	65	Southern Xinjiang
29	24	02:28:14.1	35.64	81.65	11	4.4	4.2	4.7	4.7		4.6	2.2	36	Southern Xinjiang
30	24	07:58:31.4	35.77	81.66	8	4.7	4.4	4.8	4.7		4.9	1.7	58	Southern Xinjiang
31	24	08:16:37.8	35.74	81.65	9	4.4	4.0	4.6	4.7		4.5	1.9	25	Southern Xinjiang
32	24	15:24:39.6	32.51	110.22	10	4.4	4.1	4.7	4.5		4.3	2.0	61	Eastern China
33	26	10:39:27.0	35.77	81.63	14	5.0	4.7	5.4	4.8		5.1	1.4	71	Southern Xinjiang
34	30	08:32:24.7	37.97	101.92	11	5.2	4.9	5.5	4.8	4.7	5.1	2.2	78	Qinghai

Catalog of earthquakes all over the world
(February 2008~March 2008; $M \geq 6.0$)

No.	Origin time (UTC)		Geographic coordinates		Focal depth /km	Magnitudes						SD	No. sta. used	Region
	d	h:min:s	$\varphi/^{\circ}$	$\lambda/^{\circ}$		China			NEIS					
						M_S	M_{S7}	m_b	M_{SZ}	m_b				
February 2008														
1	3	07:34:11.9	1.48S	28.76E	10	6.0	5.7	5.5	5.8	6.1	0.9	75	Zare	
2	4	17:01:28.4	20.26S	70.46W	29	6.5	6.5		6.2	6.0	1.8	81	Near coast of Northern Chile	
3	8	09:38:14.1	10.70N	41.90W	9	7.3	7.2		6.9	6.4	1.6	68	North Atlantic Ridge	
4	10	12:21:58.6	60.80S	25.60W	8	6.6	6.4		6.5	6.4	3.2	72	South Sandwich Islands region	
5	12	12:50:18.4	16.40N	94.30W	83	6.2	6.1			6.0	1.7	61	Near coast of Oaxaca, Mexico	
6	13	19:58:38.3	8.73S	129.09E	19	6.0	5.8	5.8	6.1	6.4	0.9	84	Timor Sea	
7	14	10:09:18.9	36.68N	21.59E	29	6.9	6.8	6.1	6.6	6.2	0.6	84	SouthernGreece	
8	14	12:08:52.4	36.54N	21.78E	26	6.2	6.0	6.0	6.0	5.9	0.6	85	Southern Greece	
9	20	08:08:26.8	2.54N	95.89E	30	7.7	7.5	6.1	7.5	6.5	1.0	84	Off west coast of Northern Sumatra	
10	20	18:27:08.3	36.75N	22.12E	33	6.3	6.0	5.6	6.1	5.7	0.9	84	Southern Greece	
11	21	02:46:15.0	77.10N	18.60E	10	6.6	6.3	5.7	5.9	5.7	1.3	81	Svalbard region	
12	21	14:16:03.5	41.20N	114.90W	6	6.3	5.9	5.4	5.8	5.7	2.1	65	Nevada	

Continued

No.	Origin time (UTC)		Geographic coordinates		Focal depth /km	Magnitudes					SD	No. sta. used	Region
	d	h:min:s	φ / $^{\circ}$	λ / $^{\circ}$		China		NEIS					
						M_S	M_{S7}	m_b	M_{SZ}	m_b			
13	21	23:55:32.8	2.48S	99.86E	22	6.0	5.7	5.8	5.6	5.7	1.2	77	Southern Sumatra
14	23	15:57:17.0	57.30S	23.40W	10	6.9	6.7		6.7	6.2	2.5	61	South Sandwich Islands region
15	24	14:46:18.3	2.78S	99.80E	36	6.7	6.6	5.9	6.4	6.0	1.3	84	South-west of Sumatra
16	25	08:36:28.2	2.94S	99.88E	31	7.7	7.5	6.2	7.3	6.4	1.1	84	South-west of Sumatra
17	25	18:06:01.1	2.56S	99.78E	30	6.7	6.6	6.3	6.4	6.0	1.4	85	South-west of Sumatra
18	25	21:02:16.5	2.39S	99.74E	35	7.1	7.0	6.1	6.6	6.2	1.2	86	Southern Sumatera
19	26	18:18:25.3	4.27S	100.84E	41	6.2	6.0	5.5	5.9	5.5	1.1	81	South-west of Sumatra
20	27	06:54:18.3	26.91N	142.51E	16	6.4	6.3	5.4	6.1	5.8	1.3	82	Bonin Islands region
March 2008													
21	3	02:37:24.5	2.44S	99.91E	37	6.4	6.2	5.7	6.1	5.8	1.1	82	Southern Sumatra
22	3	09:31:02.5	46.61N	153.20E	29	6.8	6.6	6.1	6.5	6.2	1.2	83	Kurile Islands
23	3	14:11:13.6	13.30N	125.95E	40	6.8	6.6	6.1		6.4	1.2	84	Samar
24	6	01:21:52.2	2.06N	128.80E	125			6.0		5.9	0.9	84	Djailolo Gilolo (Halmahera)
25	12	11:23:31.4	15.96S	168.07E	8	6.5	6.2	5.7	6.4	5.8	1.2	80	Vanuatu (New Hebrides)
26	12	11:36:50.1	16.42S	168.16E	10	6.2	6.0	5.3		5.6	1.2	56	Vanuatu (New Hebrides)
27	14	22:32:12.7	27.15N	142.52E	45	6.2	6.2	5.4	5.9	5.7	1.3	86	Bonin Islands region
28	15	14:43:23.7	2.51N	94.39E	32	6.3	6.1	5.7	5.9	5.8	1.3	86	Off west coast of Northern Sumatra
29	18	08:22:45.0	28.48S	176.55W	23	6.0	5.9	5.6	6.1	5.8	1.5	77	Kermadec Islands region
30	20	22:32:58.7	35.64N	81.54E	21	7.5	7.3	6.0	7.3	6.3	1.3	82	Southern Xinjiang
31	20	22:50:30.4	35.61N	81.11E	15	6.2	6.0	5.3		5.2	2.0	20	Kashmir-Tibet border region
32	22	21:24:08.4	52.63N	178.49W	132			6.0		5.8	1.2	84	Andean of Islands
33	29	17:30:48.0	2.73N	95.24E	29	6.8	6.8	5.8	6.5	5.8	1.1	83	Off west coast of Northern Sumatra