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

CHEN Pei-shan (陈培善)

Institute of Geophysics, China Earthquake Administration, Beijing 100081, China

CLC number: P315.5

Document code: R

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
(June 2008; $M \geq 4.7$)

June 2008, 12:17.7														
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			
June 2008														
1	1	16:59:22.7	24.90	121.63	95				5.1		5.3	2.0	84	Taiwan
2	3	03:08:39.0	31.36	103.77	16	4.7	4.7	4.4	4.4			2.4	26	Sichuan
3	3	03:09:28.6	32.03	104.62	18	4.7	4.6	4.7	4.8		5.0	2.3	67	Sichuan
4	5	04:41:05.7	32.36	105.06	16	4.8	4.7	5.0	5.0		5.2	2.1	75	Sichuan
5	7	22:14:28.3	32.43	105.22	15	4.7	4.5	4.6	4.7		4.9	2.5	64	Sichuan
6	8	10:51:16.6	31.88	104.45	15	5.0	4.7	5.0	4.9		5.1	2.1	77	Sichuan
7	8	17:56:17.4	33.12	92.14	6	5.2	5.0	5.0	4.6	4.6	5.2	1.9	79	Tibet
8	8	18:24:41.8	32.35	85.24	10	4.7	4.5	3.8	4.6	4.4	4.9	1.8	54	Tibet
9	9	07:28:36.2	31.31	103.93	13	4.7	4.5	4.8	4.6		4.9	2.0	76	Sichuan
10	10	06:05:01.8	49.03	122.72	16	5.1	4.7	5.5	4.8		4.7	1.8	65	North-Eastern China
11	10	10:04:55.0	33.10	92.07	8	5.5	5.4	6.1	5.0	5.0	5.5	2.0	79	Tibet
12	10	10:09:38.4	32.62	91.50	15				5.0		4.7	1.9	5	Tibet
13	10	11:04:15.1	33.04	92.10	27	5.1	4.9	5.1	4.9		5.3	2.1	78	Tibet
14	10	11:36:42.9	33.14	92.12	10	4.7	4.4	4.6	4.7		5.0	2.2	56	Tibet
15	10	14:15:37.5	33.07	92.08	19	5.4	5.2	5.7	4.9	4.7	5.3	1.9	82	Tibet
16	10	22:23:19.8	30.87	103.46	15	4.8	4.6	4.7	4.6	4.5	4.8	2.1	73	Sichuan
17	15	00:11:22.3	31.17	103.80	15	4.7	4.4	4.7	4.5		4.3	2.1	70	Sichuan
18	16	09:04:38.5	45.08	83.52	19			4.2	4.7		4.4	2.5	11	Northern Xinjiang
19	17	05:51:41.8	32.76	105.57	9	4.3	4.1	4.7	4.6		4.8	1.9	64	Sichuan
20	18	05:23:29.4	35.28	91.21	15	5.6	5.4		4.8	5.1	5.1	2.0	77	Qinghai
21	18	07:10:31.5	33.16	92.02	10	4.7	4.4	4.7	4.6		4.9	1.8	56	Tibet
22	18	08:12:15.7	33.23	92.12	37	5.1	5.0	5.3	5.1	4.6	5.2	2.0	84	Tibet
23	18	10:17:26.9	43.71	86.44	26	4.3	4.1	4.8	4.5		4.7	1.8	47	Northern Xinjiang
24	19	20:27:45.1	31.09	103.73	10	4.6	4.4	4.7	4.7		4.6	2.5	66	Sichuan
25	19	22:36:58.1	33.21	92.13	35	4.8	4.6	4.8	4.7	4.3	4.7	2.0	57	Tibet
26	19	22:42:35.8	33.34	92.19	42	4.6	4.2	4.6	4.8		4.5	2.3	40	Tibet
27	29	08:41:57.3	35.69	88.29	9	4.7	4.4	4.4	4.5		4.4	2.0	35	Tibet
28	29	12:47:25.1	35.71	88.36	15	5.7	5.5	5.4	5.0	5.2	5.2	2.0	83	Tibet

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

June 2008, M2.0-6.7

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			
June 2008													
1	1	01:57:21.8	20.24N	121.29E	25	6.4	6.3	5.7	6.2	6.0	1.7	83	Philippine Islands region
2	1	14:31:04.0	59.40S	149.70E	10	6.1	5.9	5.7	6.3	5.8	2.3	35	West of Macquarie Island
3	5	02:16:48.5	38.80S	91.60W	10	6.0	5.8		5.6	5.4	2.5	34	Southern Pacific Ocean
4	8	12:25:26.4	38.24N	21.41E	13	6.5	6.2	5.7	6.3	6.2	1.1	83	Ionian Sea
5	13	23:43:38.9	38.91N	141.29E	7	7.3	7.3	6.0	7.0	6.5	1.5	87	Honshu
6	14	00:20:06.2	38.74N	141.12E	10	6.0	5.8	5.2		5.5	1.5	59	Honshu
7	22	23:56:26.4	67.62N	141.69E	12	6.7	6.5	5.7	5.6	6.1	0.9	83	Eastern Siberia
8	27	11:40:12.2	10.98N	91.81E	18	6.8	6.7	6.3	6.7	6.4	1.0	86	Andaman Islands region
9	27	13:07:08.8	11.00N	91.73E	27	6.0	5.7	5.3	5.8	5.7	1.3	77	Andaman Islands region
10	28	12:54:44.1	10.77N	91.73E	16	6.3	6.1	5.8	6.0	5.9	1.0	85	Andaman Islands region
11	30	06:17:42.8	58.20S	22.10W	19	6.8	6.6		6.7	6.1	2.3	74	South Sandwich Islands region