

喜马拉雅东构造带地震精定位及其区域应力场研究
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附录 2 本文 CAP 反演的 163 个震源机制解

编号	日期	时间 (UTC)	经度 (°)	纬度 (°)	深度 /km	震级 (M_w)	节面 1 (°)			节面 2 (°)			P 轴 (°)		T 轴 (°)		台站数
							strike	dip	rake	strike	dip	rake	azimuth	plunge	azimuth	plunge	
1	20090404	22:03:50.6	101.64	23.24	6.0	4.35	34	76	9	301	81	165	348.41	3.65	257.35	16.16	14
2	20090413	20:37:09.8	99.79	25.99	6.0	4.48	39	50	-19	141	75	-138	8.51	39.11	264.89	16.15	14
3	20090509	16:18:15.4	100.59	28.66	7.0	4.20	319	65	-68	95	32	-128	265.06	63.26	32.90	17.18	16
4	20090627	08:04:55.2	97.90	25.00	7.4	3.89	4	81	-171	272	81	-9	228.28	12.70	318.30	0.08	6
5	20090629	03:57:10.2	102.77	31.48	9.0	3.46	246	65	144	353	57	29	301.02	3.65	207.60	43.12	9
6	20090909	20:52:48.7	98.76	29.70	9.0	3.78	131	61	-21	231	71	-149	94.10	34.36	359.31	6.96	8
7	20090920	11:59:45.6	97.91	24.95	8.0	4.06	10	84	173	100	83	6	55.42	0.68	325.31	9.18	6
8	20090930	05:59:12.4	100.19	25.97	6.0	4.06	127	79	-160	33	70	-11	351.28	21.86	258.91	5.88	10
9	20091101	21:07:16.0	100.69	25.94	5.5	4.73	101	79	169	193	79	11	327.04	0.14	57.08	15.51	17
10	20100124	05:57:50.7	90.56	30.47	8.0	4.43	309	87	-156	217	66	-3	175.93	18.92	80.85	14.49	4
11	20100401	17:27:24.0	98.35	24.96	7.0	4.32	181	80	-155	86	65	-11	46.16	24.65	311.58	9.88	12
12	20100403	05:04:55.3	98.33	24.95	6.0	4.05	176	78	-163	82	73	-12	39.81	20.44	308.63	3.16	7
13	20100403	14:51:48.8	99.94	27.72	12.0	3.69	174	61	-65	310	37	-127	128.16	64.60	246.17	12.57	6
14	20100514	14:46:26.2	90.39	29.73	7.0	4.63	191	55	-115	50	42	-58	46.31	68.52	298.52	6.86	5
15	20100601	15:54:41.0	98.08	24.31	5.0	3.68	346	60	158	87	71	31	214.64	7.13	309.79	35.66	7
16	20100601	15:58:07.7	99.21	24.85	8.0	4.67	158	64	-166	61	77	-26	17.25	27.63	112.00	8.99	14
17	20100606	03:04:00.0	99.23	24.92	8.0	4.32	61	76	-24	157	66	-164	17.34	26.75	110.48	6.20	12
18	20100805	18:17:49.4	97.10	26.50	11.0	4.40	221	76	-146	121	57	-16	86.21	33.69	347.87	12.25	9
19	20100930	12:08:10.7	94.01	31.39	2.0	4.09	245	58	-40	358	56	-140	211.48	49.48	302.20	0.62	6
20	20101023	16:30:05.3	98.18	30.02	6.0	3.95	41	70	-151	300	62	-22	221.40	66.25	1.92	18.76	8
21	20110115	06:32:46.1	100.90	27.65	9.0	4.19	350	46	37	232	64	129	295.08	10.67	190.67	52.87	9
22	20110201	07:11:20.7	97.90	24.70	6.0	4.77	155	81	169	246	79	9	201.03	1.30	110.70	14.12	11
23	20110204	13:53:44.5	94.70	24.60	55.0	6.03	140	80	131	241	41	15	199.55	23.75	87.54	40.42	12
24	20110215	01:36:39.8	99.52	31.68	5.0	3.95	246	51	-109	94	42	-68	95.22	74.71	349.35	4.28	7
25	20110310	04:58:12.4	97.95	24.65	3.0	5.46	146	71	150	246	61	21	198.00	5.94	103.89	34.37	11

26	20110620	10:16:49.6	98.69	25.05	6.0	5.03	240	60	21	139	71	148	191.77	7.71	96.34	34.96	18
27	20110728	21:59:46.7	100.88	27.76	8.0	4.00	160	80	-64	269	27	-158	97.88	48.48	228.98	30.21	12
28	20110830	16:23:50.8	97.98	24.73	8.0	4.17	157	70	178	247	88	20	20.60	12.63	114.13	15.37	9
29	20110923	21:38:32.3	98.17	24.35	6.0	3.95	159	78	170	251	80	12	24.84	1.54	115.27	15.49	8
30	20111005	18:54:20.6	97.54	29.80	11.0	4.00	205	70	-159	70	107	-21	66.19	28.68	156.31	0.21	8
31	20111107	09:43:38.9	97.50	30.15	11.0	3.94	298	35	-59	82	60	-109	312.02	67.95	186.02	13.39	7
32	20111209	23:11:20.5	99.23	24.88	5.0	3.69	50	75	-8	142	82	-164	6.80	16.15	275.34	5.05	6
33	20111212	09:56:15.7	101.09	28.12	4.0	3.97	111	79	-161	17	71	-11	335.20	21.16	243.17	5.22	9
34	20120304	17:11:45.6	101.80	30.10	9.0	4.30	322	65	-14	58	77	-157	282.35	26.99	188.11	8.27	16
35	20120308	22:48:51.2	97.55	25.26	4.0	3.96	101	79	-29	197	61	-167	55.53	28.13	151.85	11.63	6
36	20120414	20:31:21.7	100.08	29.28	9.0	4.16	95	44	-131	325	58	-57	288.03	61.57	32.93	7.93	12
37	20120624	07:59:33.5	100.69	27.71	4.0	5.36	190	65	-36	297	57	-150	150.88	42.49	244.98	4.46	31
38	20120629	22:22:26.1	101.18	28.13	7.0	4.14	289	67	-163	192	74	-23	149.13	27.81	241.74	4.93	6
39	20120701	04:13:49.2	94.63	25.64	47.0	5.38	330	82	-159	236	69	-8	195.21	20.45	101.91	8.77	10
40	20120709	20:13:02.6	96.51	25.42	11.0	5.07	224	82	-171	132	81	-8	88.44	12.00	358.30	0.64	15
41	20120717	20:18:42.4	102.25	29.01	10.0	3.88	189	76	-13	282	77	-165	145.77	18.99	55.44	0.96	14
42	20120722	02:11:09.2	96.48	24.98	11.0	5.07	44	90	172	134	81	0	269.28	5.65	178.72	5.65	12
43	20120822	11:04:18.6	100.10	27.62	9.0	3.80	14	56	-35	125	61	-140	342.18	47.02	248.38	3.39	10
44	20121014	23:07:59.4	101.90	25.15	12.0	4.16	314	56	-166	216	78	-34	169.56	32.50	269.18	14.69	17
45	20121115	12:52:18.8	100.31	27.33	13.0	3.62	151	55	-165	52	77	-35	5.77	33.74	105.95	14.81	8
46	20121218	11:51:57.1	96.49	25.47	7.0	4.47	120	86	21	28	69	175	252.40	11.74	346.17	17.58	10
47	20130118	12:42:50.1	99.40	30.95	7.0	5.40	208	84	-170	116	80	-6	72.75	11.30	342.20	2.76	19
48	20130303	05:41:15.8	99.72	25.93	6.0	5.27	16	56	-50	140	50	-134	344.06	57.62	78.92	3.08	12
49	20130416	08:34:11.3	95.16	28.82	21.0	4.57	95	60	51	333	47	137	211.64	7.03	312.19	56.04	6
50	20130417	01:45:55.0	99.75	25.90	6.0	4.39	15	59	-55	141	45	-133	337.81	59.39	80.85	7.60	18
51	20130418	03:46:01.2	99.79	25.88	6.0	4.16	55	75	-12	148	78	-164	12.00	18.97	281.19	2.35	12
52	20130420	00:02:47.5	102.99	30.30	17.0	6.38	14	41	66	224	53	109	300.82	6.31	189.31	73.23	11
53	20130506	21:07:03.1	96.41	25.03	14.0	4.19	99	78	-17	192	73	-167	55.19	20.44	146.37	3.16	6
54	20130517	14:37:43.8	100.08	29.21	8.0	4.36	74	54	-145	321	62	-41	283.94	48.05	19.55	5.02	14
55	20130517	14:37:43.8	100.08	29.21	8.0	4.36	74	55	-145	322	61	-40	284.90	47.55	19.51	4.21	13
56	20130623	17:54:09.4	99.44	25.57	6.0	3.9	70	70	-23	168	68	-158	28.79	30.10	119.38	1.02	14
57	20130628	05:38:33.9	99.01	30.96	6.0	3.96	216	86	-149	123	59	-4	84.29	24.37	345.67	18.30	8
58	20130718	23:56:15.4	98.93	25.93	5.0	4.20	196	51	-90	15	39	-90	106	84	286.00	6.0	13

59	20130811	21:23:42.0	97.96	30.04	27.0	5.73	290	71	20	193	71	159	241.64	0.09	151.60	27.31	14
60	20130811	23:48:20.0	97.91	30.06	10.0	4.70	96	47	-26	205	71	-134	70.31	45.15	324.90	14.81	12
61	20130812	08:09:37.1	97.93	30.08	7.0	4.88	199	72	-160	102	71	-19	35.11	16.15	291.49	39.11	15
62	20130818	16:38:06.4	99.05	31.68	9.0	4.35	81	50	19	338	75	138	35.11	16.15	291.49	39.11	12
63	20130825	03:40:47.2	101.93	29.92	4.0	3.71	155	56	-32	264	63	-141	122.86	44.92	28.00	4.86	9
64	20130831	00:04:16.8	99.35	28.15	5.0	5.57	79	35	-129	303	63	-66	253.28	63.43	16.48	15.31	18
65	20130903	14:32:37.0	99.46	28.23	7.0	4.60	280	36	-111	126	56	-75	74.95	73.76	204.94	10.61	15
66	20131007	20:09:12.3	99.46	28.20	6.0	4.26	300	40	-83	110	50	-95	343.97	83.12	205.04	5.19	13
67	20131014	03:19:00.3	102.78	27.97	7.0	4.67	171	73	-6	262	84	-162	128.05	16.11	35.78	7.82	16
68	20131112	20:41:31.5	97.16	29.99	7.0	3.88	85	59	-36	195	59	-143	130.58	46.09	40.10	0.45	13
69	20131129	01:54:47.2	95.87	28.86	18.0	4.45	301	12	164	46	86	78	147.42	40.63	304.67	47.07	10
70	20131229	00:29:10.9	101.98	29.86	7.0	3.91	63	81	180	153	89	9	287.65	6.35	18.35	6.35	11
71	20140112	16:07:53.6	90.31	31.97	10.0	4.20	246	77	-25	341	65	-165	201.87	26.76	295.72	7.59	8
72	20140114	19:17:46.5	101.17	26.86	6.0	4.41	96	35	95	269	55	86	2.41	10.09	166.23	79.50	16
73	20140130	12:13:30.6	99.86	30.17	7.0	4.18	300	71	-29	40	62	-158	257.99	33.67	351.60	5.39	13
74	20140202	07:55:26.3	101.36	31.11	6.0	3.80	330	79	-20	63	70	-168	285.72	21.86	118.09	5.88	10
75	20140207	08:56:39.1	90.34	31.95	8.0	4.80	56	83	-9	147	81	-172	11.42	11.30	101.69	1.35	6
76	20140307	08:41:56.4	91.18	31.50	6.0	4.39	186	45	-85	358	45	-94	184.23	86.47	92.47	0.11	7
77	20140402	23:49:46.3	100.57	26.21	9.0	3.68	360	34	-121	107	78	-122	163.62	67.69	292.08	14.32	15
78	20140404	01:27:25.0	100.57	26.17	9.0	4.22	279	80	-145	182	55	-12	146.22	31.48	46.07	16.06	15
79	20140424	16:56:02.8	98.87	24.50	8.0	3.62	81	79	18	347	72	168	213.43	4.56	305.13	20.45	6
80	20140509	09:51:58.0	101.44	27.92	8.0	3.93	42	86	-4	132	86	-175	357.14	5.65	267.14	0.01	6
81	20140514	05:41:54.5	99.88	30.84	8.0	3.91	305	71	-24	43	67	-159	263.33	30.14	354.72	2.39	9
82	20140530	01:20:13.2	97.80	25.02	6.0	5.83	82	86	-19	173	71	-175	36.12	16.20	129.18	10.39	13
83	20140530	14:29:50.4	97.84	25.00	8.0	3.99	245	74	9	152	81	163	199.52	5.08	107.91	17.53	11
84	20140821	04:11:02.3	100.50	25.88	7.0	4.23	105	82	169	196	79	8	151.01	2.02	60.53	13.42	13
85	20140916	15:33:52.5	98.48	25.00	7.0	4.25	270	81	10	178	80	170	44.14	0.61	134.28	13.41	9
86	20141001	01:23:29.2	102.74	28.38	11.0	4.96	355	77	30	256	60	165	123.55	10.69	219.86	30.24	23
87	20141007	21:14:06.2	102.91	30.13	15.0	4.03	224	23	101	32	67	85	125.61	22.31	293.59	67.24	9
88	20141007	22:51:53.4	100.47	23.41	10.0	3.55	142	70	180	232	89	20	5.22	14	98.78	14	6
89	20141017	09:44:51.2	97.03	27.26	13.0	4.13	0	79	-126	255	37	-18	234.61	44.14	117.36	25.25	8

90	20141106	15:22:55.9	101.07	27.97	8.0	3.97	118	81	-175	27	85	-9	342.36	9.87	72.85	2.85	11
91	20141121	21:07:34.3	101.41	27.93	8.0	3.66	204	87	29	112	61	176	334.50	17.78	72.06	22.29	9
92	20141122	08:55:28.0	101.68	30.29	8.0	5.98	236	80	-171	144	81	-10	100.12	13.40	190.30	0.79	29
93	20141125	15:19:09.6	101.75	30.20	9.0	5.56	151	80	-8	242	82	-169	106.87	12.69	16.54	1.48	25
94	20141126	13:12:03.5	101.43	27.92	9.0	3.84	135	82	-176	44	86	-8	359.51	8.47	89.93	2.84	9
95	20141205	18:43:45.2	100.49	23.32	19.0	5.63	165	82	180	255	89	8	29.72	5.65	120.28	5.65	28
96	20141207	09:23:07.0	100.51	23.30	3.0	4.50	79	86	-31	171	60	-175	27.71	24.37	126.33	18.30	11
97	20141221	05:09:37.0	101.48	27.88	8.0	4.33	303	87	-174	212	84	-3	167.96	6.36	77.73	2.11	14
98	20150118	13:09:35.2	96.57	25.41	11.0	4.25	120	86	37	26	53	174	247.53	22.04	350.11	28.28	10
99	20150119	15:30:46.0	99.72	25.95	8.0	4.28	35	81	17	302	73	170	167.78	5.37	259.57	18.35	14
100	20150119	15:30:48.5	99.71	25.93	5.0	4.27	31	75	17	33	80	15	163.56	0.96	253.95	22.50	14
101	20150301	10:24:39.6	98.94	23.50	13.0	5.14	334	80	162	67	72	10	21.52	5.30	289.61	19.75	27
102	20150303	09:23:53.0	98.95	23.54	8.0	4.56	146	61	176	237	86	29	8.32	17.44	105.87	22.70	9
103	20150605	09:06:06.1	99.79	25.86	6.0	3.97	235	75	-10	327	80	-164	191.92	17.55	100.75	3.69	7
104	20150605	10:30:46.0	102.77	30.29	18.0	3.94	221	29	104	25	61	82	120.72	16.61	227.38	72.00	8
105	20150614	07:38:52.6	101.97	24.41	8.0	4.11	125	77	168	217	78	13	351.23	0.91	127.74	17.69	12
106	20151030	11:26:39.0	99.50	25.06	7.0	4.83	50	64	-49	166	47	-143	9.12	52.15	111.92	9.77	29
107	20151030	11:26:39.4	99.44	25.04	8.0	4.82	166	50	-143	50	62	-46	11.40	51.31	110.71	7.38	30
108	20160103	17:27:24.8	99.94	25.07	6.0	3.98	159	67	-165	63	76	-23	19.31	26.41	112.39	6.19	14
109	20160103	23:05:18.8	93.58	24.79	70.0	6.44	250	90	117	340	26	0	31.58	39.05	184.42	39.05	10
110	20160103	23:05:23.0	93.58	24.81	80.0	6.56	331	24	160	78	82	67	188.43	33.20	325.27	48.10	10
111	20160204	01:11:01.9	100.11	27.66	8.0	3.95	134	35	-109	336	57	-77	74.30	282.32	57.58	11.29	13
112	20160207	23:30:54.7	99.66	26.05	7.0	4.44	236	85	-12	327	78	-174	191.00	12.01	282.04	4.87	17
113	20160207	23:39:07.9	99.58	26.09	7.0	4.15	14	84	3	283	87	173	328.96	2.13	238.72	6.36	13
114	20160309	22:05:50.0	99.78	30.28	8.0	4.45	150	74	-15	244	75	-163	107.35	21.77	16.91	1.09	15
115	20160309	22:05:53.2	99.80	30.31	7.0	4.46	246	75	-161	150	71	-15	109.00	23.91	18.00	2.26	14
116	20160311	11:07:17.9	101.40	27.90	6.0	4.05	236	54	66	93	42	119	342.81	6.14	89.78	69.76	15
117	20160315	04:28:21.7	98.01	29.73	6.0	4.23	240	30	-99	70	60	-84	353.76	74.06	156.58	15.26	8
118	20160317	17:19:50.8	102.00	29.60	4.0	4.29	289	44	-135	163	60	-55	123.74	58.87	229.44	9.28	9
119	20160320	16:54:10.4	93.17	29.88	5.0	4.28	50	46	-65	196	49	-113	38.01	72.21	302.60	1.73	7
120	20160413	13:55:18.0	94.87	23.14	71.0	6.78	270	55	-104	113	37	-70	137.35	75.38	9.97	9.00	14
121	20160423	09:32:56.0	95.08	31.93	9.0	4.56	209	30	-89	27	60	-90	296.27	74.99	118.27	15.00	7
122	20160511	01:15:46.0	94.94	31.99	3.9	5.37	41	34	-70	197	58	-102	73.73	73.29	296.66	12.40	6

123	20160517	16:48:48.4	99.58	26.08	9.0	4.85	201	82	-6	291	84	-171	156.55	9.88	66.29	1.44	30
124	20160517	17:05:11.0	99.58	26.10	7.0	4.52	129	56	-160	27	73	-35	343.17	36.58	81.65	11.24	16
125	20160518	16:57:10.5	95.07	31.95	9.0	4.26	60	63	-40	170	55	-146	46.55	21.97	117.07	4.82	7
126	20160624	01:11:01.9	100.11	27.66	3.0	3.96	160	35	-68	313	57	-104	186.40	72.80	54.30	11.72	9
127	20160625	17:55:01.4	101.59	30.39	7.0	3.85	140	70	-6	232	84	-159	97.73	18.14	4.45	9.93	13
128	20160628	11:26:43.4	100.06	24.94	9.0	3.56	287	78	175	18	85	12	152.00	4.98	243.06	11.96	8
129	20160717	10:55:30.7	98.37	30.21	7.0	4.48	208	87	-159	116	69	-3	74.39	16.86	340.54	12.48	11
130	20160808	22:30:33.7	99.58	26.08	9.0	4.12	290	90	-163	199	72	0	156.28	111.93	63.72	11.93	14
131	20160808	22:21:16.4	100.06	31.56	6.0	4.01	40	45	-106	242	47	-74	225.68	78.70	321.24	1.11	5
132	20160814	13:17:55.1	97.95	25.36	11.0	3.66	360	64	-176	286	86	-26	240.00	67.06	101.79	17.51	8
133	20160815	04:35:29.2	99.57	24.73	6.0	3.76	324	85	-176	233	86	-5	244.80	49.06	44.88	39.20	8
134	20160903	21:38:57.5	96.81	27.24	11.0	4.39	150	46	124	285	53	59	36.65	3.99	135.61	65.91	8
135	20160922	17:23:11.0	99.61	30.10	8.0	4.89	130	71	-24	228	67	-159	88.33	30.14	179.72	2.39	23
136	20160928	21:36:30.2	101.88	29.58	3.0	4.32	154	50	-5	247	86	-139	118.52	30.11	13.53	24.04	18
137	20170327	01:10:26.0	99.81	25.85	6.0	4.39	49	75	-8	141	82	-164	5.8	16.15	274.34	5.05	12
138	20170912	11:26:40.0	101.42	27.93	9.0	4.63	205	79	-9	296	81	-168	161.06	14.09	70.68	1.51	8
139	20171117	22:34:19.0	95.02	29.75	23.0	6.25	71	37	13	330	82	126	32.27	27.97	274.43	41.33	14
140	20171118	00:31:58.0	94.92	29.88	18.0	4.87	66	25	9	327	86	114	36.26	36.45	261.87	43.44	9
141	20171219	17:40:52.0	95.08	29.88	3.5	4.88	19	11	-54	162	81	-96	64.75	53.44	258.17	35.80	9
142	20180103	21:35:33.0	99.32	23.93	8.0	4.65	135	74	-173	42	82	-16	358.06	16.13	89.93	6.43	10
143	20180103	21:35:33.0	99.32	23.93	8.0	4.64	135	74	-174	43	84	-16	358.16	15.42	90.13	7.11	10
144	20180516	08:46:40.0	102.27	29.18	7.0	4.47	255	86	159	346	69	4	302.60	11.74	208.83	17.58	13
145	20180908	02:31:29.0	101.53	23.28	9.0	5.69	35	84	-16	126	74	-173	349.87	15.53	81	6.89	33
146	20181128	10:17:08.0	96.84	27.15	11.0	5.33	164	79	150	260	60	12	215.20	12.25	118.34	28.81	16
147	20181213	15:39:42.0	98.82	29.61	7.0	4.49	235	83	-162	142	72	-7	100.12	17.64	7.71	7.51	10
148	20181213	15:39:42.0	98.81	29.62	7.0	4.47	140	73	-8	232	82	-162	97.24	17.51	5.19	6.47	12
149	20190423	20:15:48.0	94.61	28.40	21.0	5.98	260	85	-87	48	5	-120	173.29	49.91	347.23	39.93	4
150	20190624	13:24:21.0	101.67	24.98	12.6	4.67	236	84	-15	327	75	-173	190.95	14.83	282.60	6.21	18
151	20190719	22:54:25.0	92.86	27.76	20.0	4.78	44	16	-118	252	75	-82	173.32	58.41	336.66	30.51	7
152	20190721	12:23:28.0	100.62	26.16	9.0	4.86	30	80	-16	122	74	-169	345.73	18.34	77.05	3.97	19
153	20190930	20:51:53.0	100.39	30.61	8.0	4.20	125	78	-4	215	86	-167	80.99	11.26	349.86	5.67	8
154	20191124	17:02:35.0	99.70	25.97	7.0	4.44	46	85	-13	137	77	-174	093	12.71	92.19	5.56	11
155	20210319	06:11:26.0	92.74	31.94	4.0	5.80	11	40	-121	299	56	-66	189.46	68.63	302.62	8.75	12
156	20210521	13:21:26.7	99.92	25.63	8.0	5.21	215	77	-25	310	65	-165	170.87	26.76	264.72	7.9	19

157	20210521	13:48:37.1	99.87	25.67	6.0	6.05	44	77	-14	137	76	-166	19.01	0.53	90.68	0.44	21
158	20210522	12:14:38.0	100.08	25.69	7.0	4.58	213	74	-28	311	63	-162	169.71	30.93	264.01	7.13	23
159	20210527	11:52:46.0	99.95	25.74	7.0	4.26	15	85	14	283	76	174	148.65	6.25	240.14	13.42	11
160	20210527	15:03:57.0	99.89	25.69	9.0	3.95	45	58	-13	141	79	-147	8.20	30.64	269.79	13.88	14
161	20210610	11:46:07.0	101.91	24.34	9.0	4.96	123	85	-162	31	72	-5	348.54	16.22	255.91	8.98	15
162	20210612	10:00:46.0	97.89	24.96	11.0	4.88	240	84	-6	330	84	-173	195.32	8.48	105.31	0.02	10
163	20210628	11:48:14.0	101.89	24.31	8.0	4.46	115	80	-177	24	87	-10	339.34	9.16	70.14	4.95	14