METEOROLOGICAL DEPARTMENT
OFFICE OF THE PRIME MINISTER
SEISMOLOGICAL BULLETIN

STANDARD SEISMOLOGICAL STATION (CHG)
CHIANGMAI, THAILAND.

Latitude: 18°47' 24" N. Longitude: 98°58' 37" E.

Geocentric direction cosines: a. - 0.147714
b. 0.935112
c. 0.322104

Elevation: 416.43 Meters

Station Foundation: Granite bedrock

Instruments: World-wide standard seismograph system
Benioff short period seismometers
To = 1.0 sec. Tg = 0.75 sec.

Sprengnether long period seismometers
To = 15 sec. Tg = 100 sec.

Magnification: SP. 200,000
LP. 3000

DECEMBER 1966

No.	DATE	PHASE		Time G.M.T.	Az	Tz	△ Deg.	REMARKS
1	1	iP	ZNE	00:38:46.2	15.0	1.2	31.2	USCGS:H 00:32:32
		e	Z	40:15				Lat.0.1N; Long 125.6E
		ePcP	ZE	41:38				h=123km. Mag. 5.3
		eScs	E	48:10				
2	1	iP	ZNE	05:08:26.0	60.0	1.4	76.1	Compression
		iS	NE	17:44				USCGS:H 04:56:58.2
		eSS	E	22:27				Lat.14.0S; Long. 167.1E
								h= 132 km. Mag. 6.1
3	1	iP	ZN	19:03:44.8			39.9	USCGS:H 18:56:23.1
		eS	Z	09:22				Lat.41.6N;Long.139.6E.
								h= 173 km. Mag. 5.4
4	2	eP	Z	00:58:11				
		eS	Z	58:51				
5	2	eP	Z	03:15:46			42.1	USCGS:H 03:07:54.0
								Lat.28.2N;Long.53.2E.
								h= 40 km. Mag. 5.2
6	2	eP	N	07:15.46			31.5	USCGS:H 07:43:51.4
								Lat.0.2S;Long. 125.2E.
								h= 33 km. Mag. 5.2
7	2	iP	NE	09:37:42			32.2	USCGS:H 09:31:17.6
		ePcP	Z	40:20				Lat.3.2N;Long. 128.1E
		iS	NE	42:56				h= 92 km. Mag. 5.8
		eG	Z	44:07				
8	3	eP	N	05:34:08				
		eS	N	34.57				
9	3	iP	ZE	14:25:33.8	45.0	1.2	91.7	Dilatation
		i	Z	27:23				USCGS:H 14:13:25.2
								Lat.24.7S;Long.179.9E.
								h= 492 km. Mag. 5.1

No.	DATE	PHASE		Time G.M.T	Az	Tz	△ Deg.	REMARKS.
10	4	eP eS	ZN Z	16:53:10 54:04				
11	5	eP	Z	01:25:08			32.1	USCGS:H 01:18:46.4 Lat.3.ON;Long.127.6E. h=87 km. Mag. 5.0
12	5	eP eS	ZN N	08:39:32 40:12				
13	6	eP	Z	02:37:16			30.8	USCGS:H 02:30:53.0 Lat.36.3N;Long.70.0E. h= 58 km. Mag. 4.9
14	6	eP	Z	03:30:21.5			41.6	USCGS:H 03:22:35.3 Lat.4.4S;Long.134.1E. h= 33 km. Mag. 4.8
15	7	eP	Z	04:24:34			52.6	USCGS:H 04:15:22.1 Lat.46.9N;Long.153.7E. h= 40 km. Mag. 4.5
16	7	iP eS	ZNE ZE	17:26:42.0 34:31	37.0	1.2	50.7	Dilatation USCGS:H 17:17:42 Lat.44.3N;Long.151.7E. h= 26 km. Mag. 5.8
17	8	iP e	ZNE E	02:13:01.7 15:08	6.5	1.0	28.2	Compression USCGS:H 02:07:07.4 Lat.29.3N;Long.69.9E. h= 37 km. Mag. 5.1
18	8	iP	ZNE	11.42:31.0	11.0	0.9	70.1	Compression USCGS:H 11:31:18.0 Lat.42.2N;Long.18.9E. h= 24 km. Mag. 5.0
19	8	iP eS	ZE E	12:38:29.5 39:30				
20	8	eP	Z	15:13:12			61.1	USCGS:H 15:02:59.4 Lat.56.1N;Long.164.7E. h= 33 km. Mag. 4.8
21	8	eP eS	Z Z	17:47:05 48:29				
22	9	eP	Z	01:18:42.8			74.2	USCGS:H 01:07:08.4 Lat.14.1S;Long. 166.6E. h= 53 km. Mag. 4.4
23	9	eP	Z	16:54:48.4			67.1	USCGS:H 16:43:57,7 Lat.51.7N;Long.174.6E. h= 21 km. Mag. 5.2
24	10	eP eS	Z E	07:52:34 53:18				
25	10	iP e	ZNE E	13:26:05.0 36:21	30.0	1.1		
26	10	eP	Z	17:18:36			59:8	USCGS:H 17:08:32.2 Lat.41.0N;Long, 33.5E. h= 13 km. Mag, 4.9

		eS	Z	24:34				Lat. 3.6S;Long. 145.4E.
		e	ZE	28:22				h= 33 km. Mag. 5.7
28	10	eP	Z	22:19:19				
29	11	eP	Z	18:08:50.3			75.2	USCGS.H 17:57:18.7
								Lat.15.0S;Long. 167.4E.
								h= 116 km. Mag. 5.0
30	11	eP	Z	19:55:50			45.2	USCGS:H 19:47:34.2
		eLq	Z	20:13:02				Lat.42.9N;Long. 144.6E
		eLt	E	16:39				h= 57 km. Mag. 4.8
31	12	eP	Z	12:29:13				
32	14	eP	ZE	15:00:23			64.3	USCGS:H 14:49:59.8
								Lat.45.6N;Long.26.7E.
								h= 158 km. Mag. 4.8
33	14	eP	Z	17:24:09				
		eS	E	26:12				
		e	Z	32:35				
34	14	iP	ZE	21:16:43.6	35.0	2.0	50.1	Compression
		iS	NE	23:56				USCGS:H 21:07:52.1
		eScS	NE	26:34				Lat.4.8S;Long.143.9E.
		eLq	Z	29.12				h= 74.2 km. Mag. 6.0
35	15	iP	ZNE	02:09:18.5			5.1	Dilatation
		e	NE	23:22				USCGS:H 02:08:03.0
								Lat.21.7N;Long.94.5E.
								h= 81 km. Mag. 5.8
36	15	eP	Z	04:43:57.2			75.4	USCGS:H 04:32:12.8
		e	E	44:03				Lat.15.8S;Long.167.2E.
								h= 27 km. Mag. 4.8
37	15	eP	Z	05:25:10.2			44.0	USCGS:H 05:17:02.0
								Lat. 16.9N;Long.145.9E
								h= 66 km. Mag.4.4
38	16	e(P)	Z	01:36:34				
39	16	eP	Z	10:13:28			39.6	USCGS:H 10:06:06.3
								Lat. 7.2S;Long.129.4E.
								h= 118 km. Mag. 4.8
40	16	ip	ZNE	20:56:46.0	56.2	2.2	19.0	Compression
		iS	NE	21:00:26				USCG3:H 20:52:13.5
		e	N	05:10				Lat.29.6N;Long.81.0E.
								h= 9 km. Mag. 5.9
41	16	eP	Z	22:17:21.5			19.6	USCGS:H 22:12:49.2
								Lat.29.7N;Long.81.0E.
								h= 5 km. Mag. 5.4
42	17	eP	Z	06:36:22.5			77.3	USCGS:H 06:24:54.9
								Lat.16.8S;Long.168.9E
								h= 243 km. Mag. ?
43	17	e(P)	Z	07:53:14				
		e	Z	53:36				
		e	E	59:46				

No.	DATE	PHASE		Time G.M.T.	Az	Tz	△ Deg.	REMARKS.
44	18	iP	ZN	05:04:56.4				
		e	Z	06:24				
45	18	eP	Z	09:59:18				
		eS	N	10:01:24				
46	18	eP	Z	20:31:39				
		e		35:26				
47	18	eP	Z	22:47:09			19.6	USCGS:H 22:42:38.3 Lat. 29.6N;Long.81.3E. h= 25 km. Mag.5.0
48	19	eP	Z	04:28:42			24.2	USCGS:H 04:23:28 Lat.5.3S;Long.102.4E. h= 33 km. Mag. 4.4
49	19	eP	Z	08:39:22			39.3	USCGS:H 08:32:11.6 Lat.25.9N;Long.140.9E. h= 203 km. Mag. 3.8
50	19	eP	Z	10:29:03				
51	20	eP	Z	01:10:08				
52	20	iP	Z	12:31:23.2	18.0	0.6	37.2	USCGS: H 12:24:14.7 Lat.2.9S;Long.129.8E. h= 59 km. Mag. 5.1
53	20	i(P)	Z	12:43:54.0				
		i	Z	48:09				
		e	NE	56:17				
54	20	eP	Z	15:48:42				
55	20	iP	ZNE	16:26:39.0			36.9	Compression USCGS:H 16:20:05.8 Lat. 7.2S;Long.126.1E. h= 441 km. Mag. 5.4
		e	Z	28:16				
		eS	ZE	31:53				
56	20	iP	z	18:44:40.6			22.6	USCGS:H 18:39:40.3 Lat.14.3N;Long.122.1E. h= 37 km. Mag. 5.4
		iS	E	48:59				
		eScS	Z	57:10				
57	20	eP	Z	20:09:29				
		eS	Z	10:49				
58	21	iP	ZNE	09:03:41.3			79.1	Dilatation USCGS:H 08:52:00.0 Lat.20.0S;Long.169.7E. h= 245 km. Mag. 5.6
		iS	NE	13:32				
		eSS	Z	18:34				
		eG	Z	25:10				
59	21	eP	Z	11:44:03.7			29.4	USCGS:H 11:38:08 Lat.5.9N;Long.126.1E. h= 99 km. Mag. 5.2
		ePcP	Z	47:08				
60	21	eP	Z	22:15:29			20.7	USCGS:H 22:10:58.8 Lat.29.4N;Long.81.0E. h= 31 km. Mag. 5.4
		eS	Z	19:24				
61	22	eP	Z	05:24:35.5				
		eS	E	27:45				
62	22	eP	Z	12:19:47			56.8	USCGS:H 12:10:06.3 Lat.52.4N;Long.158.5E. h= 61 km. Mag. 4.4

No.	DATE	PHASE		Time G.M.T.	Az	Tz	△ Deg.	REMARKS.
63	22	eP	Z	17:35:04			47.3	USCGS:H 17:26:31.5 Lat.43.9N;Long.147.2E. h= 38 km. Mag. 4.5
64	22	iP	Z	19:33:21.2	15.2	0.8	53.3	USCGS:H 19:24:06.5 Lat.48.6N;Long.154.3E. h= 77 km. Mag.5.2
65	23	eP eS	Z Z	08:48:59 49:38				
66	23	eP	Z	14:35:45.5			19.1	USCGS:H 14:31:24.7 Lat.0.3S;Long.97.1E. h= 57 km. Mag. 4.8
67	23	iP iS eScS	ZNE ZE N	15:59:51.0 16:07.31 09:38	63.0	1.2	55.1	Compression USCGS:H 15:50:20.4 Lat.7.1S;Long.148.3E. h= 43 km. Mag. 6.4
68	23	eP	Z	18:33:27				
69	25	eP	Z	05:50:55			44.2	USCGS:H 05:42:44.5 Lat.14.1N;Long.53.8E. h= 33 km. Mag. 5.2
70	25	e(P)	Z	05:57:50			44.4	USCGS:H 05:49:47.7 Lat.14.2N;Long.53.6E. h= 33 km. Mag. 4.8
71	25	eP eS	Z Z	09:52:02 52:40				
72	25	eP	Z	23:14:16			67.2	USCGS:H 23:03:22.8 Lat.51.8N;Long.176.1E. h= 47 km. Mag. 4.8
73	26	eP eS	Z Z	22:24:19 25:04				
74	27	iP eS	ZE ZE	01:29:46.0 36:15	16.0	1.7	39.5	USCGS:H 01:22:17.3 Lat.37.1N;Long.141.0E h= 60 km. Mag. 5.5
75	27	eP	Z	05:51:21				USCGS:H 05:42:17.2 Lat.5.9S;Long.145.4E. h= 79 km. Mag. 4.8
76	27	eP eS	Z S	18:37:45 38:49				
77	27	e(P) e	Z Z	21:41:52 45:28				
78	31	iP ePP	ZN E	18:34:34.5 37:11			73.3	USCGS:H 18:23:02.9 Lat.11.8S;Long.166.5E. h= 33 km. Mag. ?
79	31	eP	Z	22:26:36			71.4	USCGS:H 22:15:14.0 Lat.11.3S;Long.164.8E. h= 33 km. Mag. 5.2

NOTE

Trace amplitude are given in millimeteres and the period in second.