

# 地震季報

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中華民國四十九年一、二、三月

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January to March, 1960

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臺灣省氣象所

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General Aspect of Earthquakes

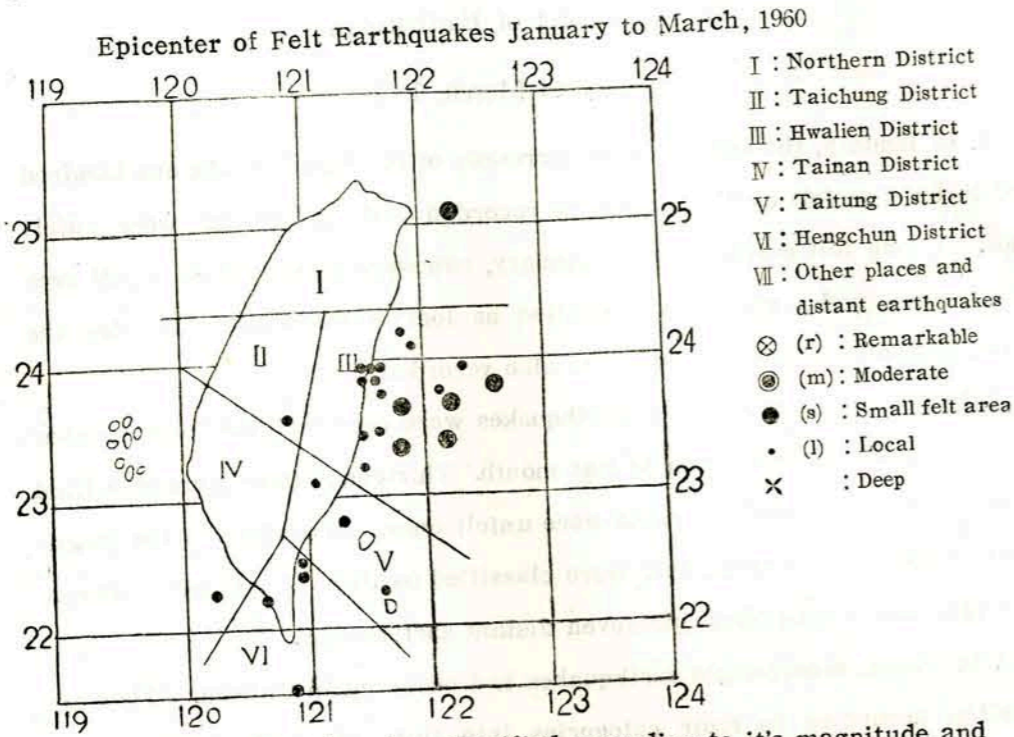
January to March, 1960

1. In January, the number of occurrences of earthquakes was one hundred and three. Ten felt earthquakes were recorded and the remains were unfelt ones. Among felt earthquakes in January, two were classified as small area earthquakes, and eight were classified as local earthquakes. Besides the above, nine distant earthquakes were also recorded.

2. In February, seventy-five earthquakes were recorded, the total number has a decrease in comparison to last month. Thirteen of them were classified as felt earthquakes, and the rests were unfelt ones. According to the magnitudes of these earthquakes, they were classified as three small felt earthquakes, ten local earthquakes and seven distant earthquakes.

3. In March, ninety-eight earthquakes had occurred in Taiwan. They are classified according to their categories into five felt earthquakes, twelve distant earthquakes. The reminders are unfelt ones. Among the felt earthquakes in this month again classified into one small felt area earthquake, and four local earthquakes.

Month	Total	Felt	Unfelt	Small Area	Local	Distant
January	103	10	93	2	8	9
February	75	13	62	3	10	7
March	98	5	93	1	4	12
Total	276	28	248	6	22	28



Number of earthquakes classified according to its magnitude and districts January to March 1960

Districts	Classification Magnitudes	Number of felt earthquakes				Total	Number of unfelt earthquakes	Total
		Remarkable	Moderate	Small felt area	Local			
Northern District		—	—	1	—	1	35	36
Taichung "		—	—	—	1	1	9	10
Hwalien "		—	—	5	13	18	102	120
Tainan "		—	—	—	1	1	2	3
Taitung "		—	—	—	3	3	31	34
Hengchun "		—	—	—	4	4	41	45
Other places "		—	—	—	—	—	28	28
<b>Total</b>		—	—	6	22	28	248	276

Felt earthquakes in the month of January to March, 1960

No.	Month	P. (G. M. T.)			Mag-nitude	Epicenter	Latitude	Longitude	Depth
		d.	h.	m.					
1	Jan.	2	11	34	1	28Km E. of Taitung.	N.	E.	kms.
2	"	6	04	19	"	Near 70Km E. of Hwalien.	—	—	20
3	"	7	16	42	"	30Km NNW. of Hengchun.	—	—	45
4	"	12	01	52	s	73Km SE. of Hwalien.	23°5'	122°1'	30
5	"	14	12	57	1	39Km ENE. of Hwalien.	—	—	20
6	"	14	13	07	"	40Km NEN. of Hwalien.	—	—	20
7	"	18	16	21	"	Near 50Km SSE. of Hwalien.	—	—	0
8	"	22	16	37	"	Near Yushan.	—	—	—
9	"	23	04	25	"	Near 40Km S. of Kaohsiung.	—	—	—
10	"	25	11	38	s	40Km SE. of Hwalien.	23°7'	121°9'	30
11	Feb.	6	01	06	1	80Km ENE. of Hengchun.	—	—	30
12	"	9	20	50	1	10Km ENE. of Tawu.	—	—	0
13	"	9	22	41	1	10Km E. of Tawu.	—	—	0
14	"	10	13	53	1	16Km NE. of Hsinkong.	—	—	10
15	"	10	20	46	"	Near Hwalien.	—	—	—
16	"	18	21	28	"	"	—	—	—
17	"	21	23	06	s	60Km NE. of Ilan.	25°1'	122°2'	70
18	"	23	08	10	"	51Km NE. of Hsinkong.	23°4'	121°7'	40
19	"	25	23	57	1	65Km ESE. of Hwalien.	—	—	90
20	"	26	01	09	s	105Km ESE. of Hwalien.	23°8'	122°5'	60
21	"	27	21	35	1	16Km ESE. of Hwalien.	—	—	20
22	"	28	03	51	"	Near 20km WSW. of Hsinkong.	—	—	0
23	"	28	11	30	"	Near Hwalien.	—	—	—
24	Mar.	7	11	34	s	70Km ESE. of Hwalien.	23°8'	122°2'	0
25	"	10	04	49	1	56Km S. of Hwalien.	—	—	10
26	"	11	13	13	"	Near Hwalien.	—	—	—
27	"	20	22	49	"	82Km SSE. of Hengchun.	—	—	20
28	"	31	04	20	"	Near Hwalien.	—	—	—



## Unfelt Earthquakes in The Month of January to March, 1960

No.	Month	(G. M. T.)	P. (d. h. m.)	Epicenter	No.	Month	(G. M. T.)	P. (d. h. m.)	Epicenter
1	Jan.		1 00 29	Near Hwalien.	35	Jan.	11 03 23		Taichung district.
2	"		1 09 45	About 50Km E. of Hengchun.	36	"	11 15 51		Northern district.
3	"		1 10 58	Near Tawu.	37	"	11 18 51		Hwalien district.
4	"		1 22 44	Hwalien district.	38	"	12 04 19		Taitung district.
5	"		2 02 47	About 133 Km SE. of Hwalien.	39	"	12 05 36		Northern district.
6	"		2 11 00	Near Taitung.	40	"	13 14 40		Near Hwalien.
7	"		2 13 18	Taitung district.	41	"	13 15 16		Hwalien district.
8	"		2 14 13	"	42	"	13 15 18		Near Hwalien.
9	"		3 14 04	90 Km ESE. of Ilan.	43	"	13 15 25		Taitung district.
10	"		3 16 02	Near Taitung.	44	"	13 16 01		(d)
11	"		3 17 23	Northern district.	45	"	13 16 25		Hengchun district.
12	"		4 01 08	Taichung district.	46	"	13 18 44		160 Km E. of Ilan.
13	"		4 12 56	Near Hwalien.	47	"	13 18 44		Near Hsinkong.
14	"		4 13 35	Hangchun district.	48	"	14 06 47		Hengchun district.
15	"		4 13 37	Hwalien district.	49	"	14 11 01		26 Km ENE. of Hwalien.
16	"		4 16 34	"	50	"	14 11 03		Near Hwalien.
17	"		5 16 00	Near Tawu.	51	"	14 11 18		"
18	"		6 01 38	Near Taitung.	52	"	14 11 53		"
19	"		6 02 50	Near Hsinkong.	53	"	14 12 27		"
20	"		6 05 53	Near 20 Km N. of Hwalien.	54	"	14 12 46		"
21	"		6 07 13	Near 85 Km ESE. of Hwalien.	55	"	14 12 49		"
22	"		6 08 47	Near 30 Km ENE. of Hwalien.	56	"	14 12 55		Near 33 Km NNE. of Hwalien.
23	"		6 09 26	Near 15 Km S. of Hwalien.	57	"	14 13 15		40 Km ENE. of Hwalien.
24	"		7 08 34	(d)	58	"	14 14 22		"
25	"		7 23 31	(d)	59	"	14 15 38		Near Tawu.
26	"		8 23 25	Hengchun district.	60	"	15 05 22		Near Hwalien.
27	"		8 23 34	50Km SE. of Ilan.	61	"	16 22 46		"
28	"		9 02 12	Near Hwalien.	62	"	17 10 33		Near Hsinkong.
29	"		9 07 47	Hengchun district.	63	"	17 10 59		Hwalien district.
30	"		9 14 53	"	64	"	17 15 20		Near 95 Km ENE. of Hwalien.
31	"		9 22 35	Near 52 Km E. of Hsinkong.	65	"	17 16 22		Taitung district.
32	"		10 11 25	Near 57 Km SE. of Hwalien.	66	"	18 01 32		Near Hwalien.
33	"		11 00 49	Near 95 Km SSW. of Hengchun.	67	"	18 14 59		Near Hsinkong.
34	"		11 02 25	Ryukyu Islands.	68	"	18 19 17		Near 40 Km ESE. of Hengchun.

No.	Month	(G. M. T.)	P. (d. h. m.)	Epicenter	No.	Month	(G. M. T.)	P. (d. h. m.)	Epicenter
69	Jan.		19 00 05	Near 48 Km NNE. of Taichung.	103	Fed.		4 16 55	(d)
70	"		19 13 15	Taichung district.	104	"		5 02 34	Hwalien district.
71	"		19 20 49	50 Km SW. of Ilan.	105	"		5 02 53	Northern district.
72	"		20 05 45	Hengchun district.	106	"		5 09 49	Near 46 Km SSE. of Taichung.
73	"		22 03 26	Near 34 Km SE. of Ilan	107	"		6 08 22	Near 31 Km SW. of Hwalien.
74	"		23 01 07	Hwalien district.	108	"		7 12 24	Northern district.
75	"		23 04 47	Ceram Island region	109	"		7 15 42	Near 113 Km ESE. of Taipei.
76	"		23 07 37	4.S. 127 1/2 E	110	"		7 17 05	55 Km NE. of Hsinkong.
77	"		23 18 02	"	111	"		7 21 33	Near Hwalien.
78	"		24 01 55	Hengchun district.	112	"		8 06 46	Hwalien district.
79	"		24 04 57	(d)	113	"		8 09 17	Near 38 Km ENE. of Taipei.
80	"		24 08 49	Northern district.	114	"		8 09 44	Near Hsinkong.
81	"		24 15 38	Near Kaohsiung.	115	"		8 09 56	"
82	"		25 08 53	Northern district.	116	"		8 20 51	Northern district.
83	"		25 20 32	Near 22 Km NNE. of Hengchun.	117	"		9 01 02	(d)
84	"		26 00 20	Near Hsinkong.	118	"		9 02 54	Northern district.
85	"		27 17 54	Taitung district	119	"		9 04 52	Near Hwalien
86	"		28 11 43	Near 85 Km ESE. of Ilan.	120	"		9 08 22	Near Yushan
87	"		29 22 48	Northern district.	121	"		9 08 26	Hwalien district.
88	"		30 00 21	Near 35 Km SSW. of Ilan	122	"		9 19 52	Hengchun district.
89	"		30 13 04	Taitung district.	123	"		10 00 00	Ceram.
90	"		30 14 55	Hengchun district.	124	"		10 07 34	Hwalien district.
91	"		30 17 12	"	125	"		10 07 48	Near 100 Km SSE. of Hengchun
92	"		31 05 12	Near east coast of Shikoku.	126	"		10 13 22	Near Hwalien.
93	"		31 12 29	Hengchun district.	127	"		11 15 53	Near Tawu.
94	Feb.		1 09 12	Near Taitung.	128	"		11 16 30	"
95	"		2 23 59	Taichung district.	129	"		13 15 46	Halmahera
96	"		3 00 01	Hwalien district.	130	"		17 12 42	Near 22 Km ESE. of Tawu.
97	"		3 02 01	Northern district	131	"		19 10 44	(d)
98	"		3 22 38	Hengchun district.	132	"		19 21 53	"
99	"		3 22 42	Hwalien district.	133	"		20 23 04	Hwalien district.
100	"		4 03 54	(d)	134	"		22 02 20	Near Alishan.
101	"		4 06 16	Hwalien district.	135	"		22 21 22	Near Hwalien.
102	"		4 12 00	Near 70 Km N. of Taipei.	136	"		22 23 28	Near Hsinkong.



No.	Month	(G. M. T.)	P. (G. M. T.)	Epicenter	No.	Month	(G. M. T.)	P. (G. M. T.)	Epicenter
		d. h. m.	d. h. m.				d. h. m.	d. h. m.	
137	Feb.	23 06 50		Near Hwalien.	171	Mar.	7 03 53		Hwalien district.
138	"	23 23 40		"	172	"	7 05 18		Hengchun district.
139	"	24 00 20		"	173	"	7 05 21		Taichung district.
140	"	24 02 01		"	174	"	7 07 35		Northern district.
141	"	24 03 19		51 Km SSE. of Ilan.	175	"	7 08 06		Hwalien district.
142	"	24 05 24		Near 36 Km SSE. of Hwalien.	176	"	7 11 54		70 Km ESE. of Hwalien.
143	"	24 07 09		Near Ilan.	177	"	7 13 02		Hengchun district.
144	"	24 21 45		Solomon Islands.	178	"	7 13 14		"
145	"	24 21 52		Hwalien district.	179	"	7 13 39		Northern district.
146	"	25 01 52		Near Hsinkong.	180	"	7 13 55		95 Km E. of Hwalien
147	"	25 23 28		Hwalien district.	181	"	7 15 48		273 Km ENE. of Ilan.
148	"	25 23 30		Northern district.	182	"	7 16 42		Northern district.
149	"	25 23 32		Hwalien district.	183	"	7 16 44		Hwalien district.
150	"	26 03 16		"	184	"	7 18 26		Northern district.
151	"	26 06 44		"	185	"	7 20 13		Hwalien district.
152	"	26 20 31		"	186	"	8 16 43		New Hebrides Islands.
153	"	27 23 32		Tainan district.	187	"	8 16 51		Northern district.
154	"	29 11 37		Near Ilan	188	"	8 17 12		Hwalien district.
155	"	29 14 28		Hengchun district.	189	"	9 09 16		Northern district.
156	"	30 19 39		Near Tawu.	190	"	9 11 15		Near Taitung.
157	Mar.	1 19 44		84 Km NE. of Hwalien.	191	"	9 11 48		Hengchun district.
158	"	1 20 42		Hwalien district.	192	"	9 14 39		Near Hwalien.
159	"	2 10 16		Hengchun district.	193	"	9 22 31		Hengchun district.
160	"	2 23 36		37 Km ESE. of Tawu.	194	"	10 04 52		70 Km S. of Hwalien.
161	"	3 07 12		Hengchun district.	195	"	10 08 39		Northern district.
162	"	3 16 51		Near Hwalien.	196	"	10 08 42		35 Km ENE. of Taipei.
163	"	4 03 55		Near S. Coast of Kyushu Japan.	197	"	10 08 45		Northern district.
164	"	4 21 22		(d)	198	"	10 18 18		60 Km ENE. of Hwalien.
165	"	5 13 54		N1° E129°	199	"	10 23 57		Hwalien district.
166	"	6 02 27		"	200	"	11 19 32		"
167	"	6 15 04		Hwalien district.	201	"	12 01 20		"
168	"	6 20 33		Near Hwalien.	202	"	12 10 48		Near Hwalien.
169	"	6 22 08		Hwalien district.	203	"	12 23 05		Hwalien district.
170	"	7 01 36		Hengchun district.	204	"	12 23 26		Near Yushan.

No.	Month	(G. M. T.)	P. (G. M. T.)	Epicenter	No.	Month	(G. M. T.)	P. (G. M. T.)	Epicenter
		d. h. m.	d. h. m.				d. h. m.	d. h. m.	
205	Mar.	14 00 47		Near Hwalien.	228	Mar.	22 07 26		Hengchun district.
206	"	15 08 03		Near 25 Km NW. of Taipei	229	"	22 14 33		"
207	"	16 19 02		Near Taitung	230	"	23 00 28		Near E. coast of Honshu Japan.
208	"	16 20 33		Near 66 Km E. of Hengchun	231	"	23 01 12		"
209	"	17 07 01		Near 116 Km ESE. of Ilan.	232	"	23 10 10		Near Hwalien
210	"	18 11 49		Northern district.	233	"	23 22 27		Near E. coast of Honshu Japan
211	"	18 17 04		Hwalien district.	234	"	24 18 47		Hengchun district.
212	"	18 17 27		Near Hwalien	235	"	25 01 29		Near Hsinkong.
213	"	19 03 54		"	236	"	25 03 04		"
214	"	19 06 12		"	237	"	25 19 09		Taitung district.
215	"	19 13 33		Hwalien district.	238	"	26 11 34		Near 60 Km ENE. of Ilan.
216	"	19 17 57		Northern district.	239	"	26 18 35		Near Hsinkong.
217	"	19 23 44		Near Hwalien.	240	"	26 20 32		"
218	"	20 10 58		79 Km SE. of Hengchun.	241	"	27 03 58		Hwalien district.
219	"	20 11 33		Hengchun district.	242	"	27 09 07		"
220	"	20 17 12		off NE. coast of Honshu Japan	243	"	29 06 41		(d)
221	"	20 17 58		Hwalien district.	244	"	29 17 40		Hwalien district.
222	"	20 18 07		Hengchun district	245	"	29 17 42		Near Hwalien
223	"	20 18 39		"	246	"	30 18 59		"
224	"	20 23 49		"	247	"	30 23 56		Hengchun district.
225	"	21 00 05		"	248	"	31 14 20		Hwalien district.
226	"	21 00 40		Near E. coast of Honshu Japan.	249	"	31 18 43		Hengchun district.
227	"	21 09 23		"					



Major Earthquakes Which Occurred in January 1960.

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks
					N	E	Z	N	E	Z	N	E	Z			
1	Taipei	7	p	h. m. s. 08 34 05.1	μ	μ	μ	μ	μ	μ	s	s	s	m s	0	(d)
2	Taipei	7	p	23 31 11.2	-	-	-	-	-	-	-	-	-	-	05 32.5	0 (d)
	Tainan		ep	34 57.2	-	-	-	-	-	-	-	-	-	-	0	
3	Taipei	11	ep	02 25 12.0	-	-	-	-	-	-	-	-	-	-	0	Ryukyu Islands N28 1/2 E131
4	Hsinkong	12	p	01 52 57.6	-	-	-	223	175	-	0.7	0.7	-	-	9.7	II
	Hwalien		ip	52 57.9	-	6.8 +	18.8	172	283	-	4.1	1.4	-	-	12.4	II
	Taitung		p	53 02.1	-	-	-	-	-	-	-	-	-	-	15.1	I 73km SE. of
	Ilan		ep	53 07.6	-	-	-	273	248	-	1.1	1.2	-	-	16.6	I Hwalien
	Tawu		p	53 09.3	-	-	-	-	-	-	-	-	-	-	17.8	0
	Taichung		p	53 10.1	-	-	-	-	-	-	-	-	-	-	23.9	0 E122°1
	Taipei		ip	53 13.4 +	-	-	+	133	237	60	1.0	-	2.1	20.6	0 N23°5	
	Hsinchu		ep	53 16.0	-	-	-	-	-	-	-	-	-	-	24.3	0 (H=30)
	Hengchun		ep	53 16.2	-	-	-	138	101	71	-	-	-	-	24.2	0
	Tainan		ep	53 18.0	-	-	-	-	-	-	-	-	-	-	23.0	0
	Penghu		p	53 22.8	-	-	-	-	-	-	-	-	-	-	28.3	0
	Yushan		p	53 25.0	-	-	-	-	-	-	-	-	-	-	17.2	I
	Kaohsiung		ep	53 26.5	-	-	-	-	-	-	-	-	-	-	15.8	0
	Alishan		ip	53 27.2	-	3.3 +	7.7 -	8.3	-	-	-	-	-	-	17.9	I
5	Hwalien	13	ep	16 01 06.4	-	-	-	-	-	-	-	-	-	-	04 0.5	0
	Taipei		ep	05 06.2	-	-	-	-	-	-	-	-	-	-	13 23.8	0 (d)
	Tawu		p	12 59.0	-	-	-	-	-	-	-	-	-	-	0	
6	Tawu	23	p	04 47 02.4	-	-	-	-	-	-	-	-	-	-	04 46.5	0 Ceram Island region
7	Tawu	23	p	07 37 05.9	-	-	-	-	-	-	-	-	-	-	04 40.5	0 Ceram Island region
8	Tawu	23	p	18 02 28.8	-	-	-	-	-	-	-	-	-	-	0	0 Ceram Island region
9	Tawu	24	p	04 57 43.6	-	-	-	-	-	-	-	-	-	-	0	0 (d)
10	Hwalien	25	ip	11 38 11.8 +	2.9 -	2.9 +	55.3	681	1250	-	-	1.3	-	-	7.6	II

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks
					N	E	Z	N	E	Z	N	E	Z			
	Yushan		ip	h. m. s. 38 15.9	μ	μ	μ	μ	μ	μ	s	s	s	m s	6.1	II 40km SE. of
	Hsinkong		ep	38 16.5	-	-	-	285	308	-	0.5	0.5	-	-	10.8	II Hwalien
	Alishan		ip	38 19.0 +	2.2 +	7.7 -	2.5	-	-	-	-	-	-	-	11.8	I E121°9
	Taichung		ip	38 20.7 -	5 +	1.4 -	4.7	191	237	100	0.9	0.9	0.9	-	14.5	I N23°7
	Taitung		p	38 22.0	-	-	-	-	-	-	-	-	-	-	14.5	I (H=30)
	Ilan		p	38 22.0	-	-	-	183	159	-	1.9	1.7	-	-	12.6	I
	Hsinchu		ep	38 23.5	-	-	-	-	-	-	-	-	-	-	17.5	0
	Taipei		p	38 24.3	-	-	-	-	-	-	-	-	-	-	15.7	0
	Tawu		p	38 27.6	-	-	-	-	-	-	-	-	-	-	0	
	Penghu		p	38 27.8	-	-	-	-	-	-	-	-	-	-	23.2	0
	Tainan		ep	38 30.0	-	-	-	-	-	-	-	-	-	-	21.0	0
	Hengchun		ip	38 35.7 +	2.1 +	1.6 -	1.3	74	65	40	-	-	-	-	21.2	0
	Kaohsiung		p	38 39.8	-	-	-	-	-	-	-	-	-	-	17.1	0
11	Taichung	31	ep	05 12 01.2	-	-	-	-	-	-	-	-	-	-	0	0 Near east
	Taipei		ep	12 01.4	-	-	-	-	-	-	-	-	-	-	06 17.7	0
	Ilan		ep	12 11.5	-	-	-	-	-	-	-	-	-	-	0	0 coast of
	Hwalien		ep	13 03.1	-	-	-	-	-	-	-	-	-	-	0	0 Shikoku Japan
	Taitung		ep	15 14.4	-	-	-	-	-	-	-	-	-	-	04 59.0	0 N33 1/2 E134 1/2
	Tawu		p	15 29.3	-	-	-	-	-	-	-	-	-	-	05 58.7	0
	Tainan		ep	15 34.0	-	-	-	-	-	-	-	-	-	-	0	

Major Earthquakes Which Occurred in February 1960.

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks
					N	E	Z	N	E	Z	N	E	Z			
1	Taipei	4	ep	h. m. s. 03 54	μ	μ	μ	μ	μ	μ	s	s	s	m s	0	
	Taichung		ep	54 32.4	-	-	-	-	-	-	-	-	-	-	0	
	Hwalien		ep	54 32.7	-	-	-	-	-	-	-	-	-	-	06 16.6	0 (d)
	Taitung		ep	54 34.2	-	-	-	-	-	-	-	-	-	-	31.5	0
	Tawu		p	54 42.7	-	-	-	-	-	-	-	-	-	-	0	
2	Tawu	4	p	16 55 51.5	-	-	-	-	-	-	-	-	-	-	04 42.0	0 (d)
	Taipei		ep	17 00 00	-	-	-	-	-	-	-	-	-	-	04 00 0	0



No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P-S	Intensity	Epicenter & Remarks
					N	E	Z	N	E	Z	N	E	Z			
3	Ilan	9	ep	01 02 05.3	-	-	-	-	-	-	-	-	-	-	04 29.7	0 (d)
4	Taitung	10	p	00 00	-	-	-	-	-	-	-	-	-	-	-	0
	Hengchun		ep	01 36.8	-	-	-	-	-	-	-	-	-	-	-	0
	Kaohsiung		ep	01 37.2	-	-	-	-	-	-	-	-	-	-	-	0
	Tawu		p	01 39.3	-	-	-	-	-	-	-	-	-	-	05 38.2	0 S.4 E.128
	Hwalien		ep	01 43.2	-	-	-	-	-	-	-	-	-	-	-	0
	Tainan		ep	01 47.9	-	-	-	-	-	-	-	-	-	-	-	0
	Hsinkong		ep	01 50.0	-	-	-	-	-	-	-	-	-	-	-	0
	Alishan		ep	01 51.7	-	-	-	-	-	-	-	-	-	-	-	0
	Taipei		p	01 55.7	-	-	-	-	-	-	-	-	-	-	-	0
	Taichung		ep	02 30.5	-	-	-	-	-	-	-	-	-	-	-	0
5	Taitung	13	p	15 46 09.2	-	-	-	-	-	-	-	-	-	-	03 52.5	0 Halmahera
	Hwalien		ep	46 32.7	-	-	-	-	-	-	-	-	-	-	03 34.7	0
	Taipei		ep	46 35.6	-	-	-	-	-	-	-	-	-	-	04 15.0	0 N1 1/2 E127 1/2
	Ilan		ep	46 38.8	-	-	-	-	-	-	-	-	-	-	03 54.0	0
	Hengchun		p	49 54.5	-	-	-	-	-	-	-	-	-	-	-	0
	Taichung		p	50 08.7	-	-	-	-	-	-	-	-	-	-	-	0
6	Taichung	19	ep	10 44 26.1	-	-	-	-	-	-	-	-	-	-	-	0
	Taipei		ep	44 47.2	-	-	-	-	-	-	-	-	-	-	02 53	0
	Alishan		ep	44 48.6	-	-	-	-	-	-	-	-	-	-	-	0 (d)
	Ilan		p	44 49.8	-	-	-	-	-	-	-	-	-	-	-	0
	Taitung		ep	44 53.9	-	-	-	-	-	-	-	-	-	-	02 33.3	0
	Hwalien		p	44 58.4	-	-	-	-	-	-	-	-	-	-	-	0
	Tawu		p	44 58.9	-	-	-	-	-	-	-	-	-	-	06 23.3	0
7	Taipei	21	p	23 06 30.0	-	-	-	152	-	-	0.9	-	-	-	10.2	II
	Ilan		p	06 30.5	-	-	-	205	182	-	1.6	1.2	-	-	9.6	I 60km NE. of
	Alishan		ep	06 32.7	-	-	-	-	-	-	-	-	-	-	21.7	0 Ilan
	Hwalien		ip	06 33.9	-	-	+ 7.4	73	69	-	1.6	2.8	-	-	15.1	I E122°2
	Taichung		p	06 39.2	-	-	-	-	-	-	-	-	-	-	16.5	0 N25°1
	Yushan		p	06 45.1	-	-	-	-	-	-	-	-	-	-	20.2	0 (H=70)
	Taitung		ep	06 49.5	-	-	-	-	-	-	-	-	-	-	8.7	0

No.	station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P-S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
7	Tainan		ep	07 00.1	-	-	-	-	-	-	-	-	-	-	-	21.8	0
	Hengchun		ep	07 08.9	-	-	-	-	-	-	-	-	-	-	-	-	0
	Kaohsiung		ep	07 10.5	-	-	-	-	-	-	-	-	-	-	-	0	
	Hsinchu		ep	07 34.5	-	-	-	-	-	-	-	-	-	-	-	13.8	I
8	Alishan	23	p	08 09 23.9	-	3.9	+ 15.4	-	-	-	-	-	-	-	-	10.9	III
	Hwalien		ip	08 10 43.9	+ 3.0	- 15.1	+ 9.6	1975	1875	1150	1.0	1.2	2.2	7.4	III	51km NE.	
	Hsinkong		ip	10 45.4	+ 15.0	+ 14.8	-	3450	1350	1750	1.0	0.8	0.8	7.1	III	of Hsinkong	
	Yushan		ip	10 45.7	-	-	-	-	-	-	-	-	-	9.5	II	E121°7	
	Taitung		p	10 51.5	-	-	-	-	-	-	-	-	-	12.2	II	N23°4	
	Taichung		ip	10 52.4	-	3	+ 4	- 19	-	-	-	-	-	13.1	I	(H=40)	
	Ilan		p	10 55.6	-	-	-	229	216	-	2.2	1.8	-	17.4	I		
	Hsinchu		ep	10 58.0	-	-	-	-	-	-	-	-	-	20.0	0		
	Taipei		p	10 59.4	-	-	-	138	68	-	2.2	2.2	-	19.8	0		
	Tainan		p	10 59.6	-	-	-	-	-	-	-	-	-	28.4	I		
	Tawu		ip	11 01.1	-	6.7	+ 5.3	-	-	-	-	-	-	18.9	I		
	Kaohsiung		p	11 02.8	-	-	-	-	-	-	-	-	-	18.9	I		
	Hengchun		ep	11 06.8	-	-	-	325	236	-	2.0	2.0	-	21.3	I		
	Penghu		p	11 28.7	-	-	-	-	-	-	-	-	-	31.8	0		
9	Tawu	24	p	21 45 24.2	-	-	-	-	-	-	-	-	-	-	-	0	Solomon
	Hwalien		ep	45 31.9	-	-	-	-	-	-	-	-	-	-	-	0	Islands
	Taipei		ep	45 37.1	-	-	-	-	-	-	-	-	-	-	-	0	
10	Hwalien	26	ip	01 09 09.7	-	3.6	- 8.3	+ 10.3	230	340	126	2.9	3.1	3.2	11.7	I	
	Ilan		ip	09 12.5	+ 13	- 1.0	+ 29	254	180	141	1.5	1.9	2.0	16.8	I		
	Yushan		p	09 15.4	-	-	-	-	-	-	-	-	-	21.4	0	105 km ESE	
	Hsinkong		ep	09 15.5	-	-	-	-	-	-	-	-	-	15.1	0	of Hwalien	
	Taipei		ip	09 17.1	-	10	- 8.2	- 4.2	269	195	101	-	2.2	21.0	0	E122°5	
	Taitung		p	09 18.4	-	-	-	-	-	-	-	-	-	22.1	0	N23°8	
	Hsinchu		ep	09 20.0	-	-	-	-	-	-	-	-	-	20.0	0	(H=60)	
	Alishan		ep	09 20.1	-	-	-	-	-	-	-	-	-	18.2	0		
	Taichung		p	09 21.5	-	-	-	-	-	-	-	-	-	20.4	0		
	Tainan		ep	09 22.9	-	-	-	-	-	-	-	-	-	37.2	0		



No.	Station	Date	Phase	P. (G.M.T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
	Tawu		p	h. m. S. 09 25.5	μ	μ	μ	μ	μ	μ	s	s	s	m	s	21.3 0	
	Hengchun		p	09 33.5	+ 2.0	+ 1.7	- 0.6	69	70	20	1.9	2.0	2.4			33.3 0	
	Kaohsiung		ep	09 43.9	-	-	-	-	-	-	-	-	-	-	-	27.5 0	

Major Earthquakes Which Occurred in March 1950.

No.	Station	Date	Phase	P. (G.M.T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
1	Taipei	4	ep	h. m. s. 03 55 30.4	-	-	+	-	-	-	-	-	-	-	-	2 6.2 0	
	Hsinchu		ep	55 40.5	-	-	-	-	-	-	-	-	-	-	-	2 31.5 0	
	Hwalien		ep	55 46.5	-	-	-	-	-	-	-	-	-	-	-	0	Near S.
	Ilan		ep	55 50.5	-	-	-	-	-	-	-	-	-	-	-	2 13.9 0	Coast of
	Taitung		ep	55 53.3	-	-	-	-	-	-	-	-	-	-	-	3 50.3 0	Kyushu
	Alishan		ep	55 53.6	-	-	-	-	-	-	-	-	-	-	-	0	Japan
	Taichung		ep	55 57.4	-	-	-	-	-	-	-	-	-	-	-	0	N31 E129
	Hengchun		ep	56 13.3	-	-	-	-	-	-	-	-	-	-	-	0	
	Tawu		p	56 13.3	-	-	-	-	-	-	-	-	-	-	-	0	
	Tainan		ep	56 35.9	-	-	-	-	-	-	-	-	-	-	-	0	
2	Tawu	4	p	21 22 4.3	-	-	-	-	-	-	-	-	-	-	-	0	(d)
	Taipei		ep	24	-	-	-	-	-	-	-	-	-	-	-	0	
3	Hengchun	5	ep	13 54 25.8	-	-	-	-	-	-	-	-	-	-	-	4 9.9 0	
	Tawu		ep	54 27.2	-	-	-	267	355	-	7.7	23.2	-	-	-	4 6.8 0	
	Taitung		p	54 28.8	-	-	-	-	-	-	-	-	-	-	-	4 5.6 0	
	Hwalien		ep	54 38.4	-	-	-	-	-	-	-	-	-	-	-	4 26.0 0	
	Taichung		ep	54 40.9	-	-	-	-	-	-	-	-	-	-	-	4 25.1 0	Halmahera
	Yushan		ep	54 41.9	-	-	-	-	-	-	-	-	-	-	-	5 24.9 0	
	Alishan		ep	54 42.2	-	-	-	-	-	-	-	-	-	-	-	4 12.4 0	E1°E129°
	Ilan		ep	54 46.2	-	-	-	180	100	-	4.8	4.3	-	-	-	4 23.7 0	
	Taipei		ep	54 50.2	-	-	-	-	-	-	-	-	-	-	-	4 26.8 0	
	Hsinchu		ep	54 51.0	-	-	-	-	-	-	-	-	-	-	-	4 24.0 0	
	Kaohsiung		ep	55 32.6	-	-	-	-	-	-	-	-	-	-	-	0	
Tainan		p	55 17.0	-	-	-	-	-	-	-	-	-	-	-	4 14.7 0		

No.	Station	Date	Phase	P. (G.M.T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
4	Tawu	6	p	h. m. s. 02 27 18.2	-	-	-	-	-	-	-	-	-	-	-	4 23.1 0	
	Hwalien		p	27 22.4	-	-	-	-	-	-	-	-	-	-	-	0	Halmahera
	Ilan		ep	27 35.2	-	-	-	-	-	-	-	-	-	-	-	0	
	Hengchun		ep	27 17.0	-	-	-	-	-	-	-	-	-	-	-	0	
5	Hwalien	7	ip	11 34 46.4	+ 2.0	- 6.0	+ 8.8	227	170	106	2.6	3.5	2.1			12.7 0	
	Hsinkong		ep	34 50.2	-	-	-	-	-	-	-	-	-	-	-	15.4 0	70km ESE
	Ilan		p	34 51.0	-	-	-	204	145	72	1.9	1.5	1.2			15.1 0	I of Hwalien
	Taipei		p	34 55.0	+	-	+	-	-	-	-	-	-	-	-	20.3 0	
	Yushan		p	34 55.5	-	-	-	-	-	-	-	-	-	-	-	17.5 0	E122°2
	Taitung		p	34 55.7	-	-	-	-	-	-	-	-	-	-	-	18.0 0	N23°8
	Taichung		p	34 58.8	-	-	-	-	-	-	-	-	-	-	-	22.2 0	(H=0)
	Hsinchu		ep	35 00.0	-	-	-	-	-	-	-	-	-	-	-	35.0 0	
	Tawu		p	35 4.2	-	-	-	-	-	-	-	-	-	-	-	22.2 0	
	Hengchun		ep	35 10.4	-	-	-	-	-	-	-	-	-	-	-	30.3 0	
6	Yushan	8	p	16 43 23.9	-	-	-	-	-	-	-	-	-	-	-	8 13.3 0	
	Tawu		ep	43 28.3	- 6.7	+ 13.2	-	-	-	-	-	-	-	-	-	7 57.9 0	
	Tainan		ep	43 28.5	-	-	-	-	-	-	-	-	-	-	-	45.2 0	New
	Taitung		ip	43 29.3	-	-	-	-	-	-	-	-	-	-	-	7 56.8 0	Hebrides
	Hsinkong		p	43 29.8	-	-	-	-	-	-	-	-	-	-	-	0	Islands
	Hengchun		ip	43 30.6	+ 5.3	+ 23.8	- 60.9	-	-	-	-	-	-	-	-	1 53.9 0	
	Hwalien		p	43 34.2	-	-	-	-	-	-	-	-	-	-	-	0	
	Alishan		ep	43 36.1	-	-	-	-	-	-	-	-	-	-	-	8 2.1 0	
	Ilan		ip	43 36.3	- 27	+ 23	-	-	-	-	-	-	-	-	-	8 1.0 0	
	Hsinchu		ep	43 36.7	-	-	-	-	-	-	-	-	-	-	-	0	
7	Tawu	20	p	17 11 57.5	-	-	-	161	98	-	15.2	17.1	-	-	-	4 39.2 0	
	Ilan		p	12 38.4	-	-	-	181	204	-	21.8	14.5	-	-	-	4 7.5 0	off NE.
	Taipei		p	12 39.9	-	-	+	4750	3192	-	17.0	15.0	-	-	-	4 16.3 0	coast of
	Hwalien		ip	12 51.1	- + 9.0	-	-	1259	2700	-	14.6	15.0	-	-	-	4 32.1 0	Honshu
Taitung		p	1? 54.8	-	-	-	-	-	-	-	-	-	-	-	4 14.6 0	Japan	



No.	station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximun Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
					$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s				m
	Taichung		ep	12 55.0	—	—	—	483	285	223	16.8	13.6	13.3	4	14.0	0	
	Yushan		p	12 55.6	—	—	—	—	—	—	—	—	—	—	—	—	
	Hsinkong		ep	12 56.8	—	—	—	—	—	—	—	—	—	—	—	—	
	Alishan		ep	12 57.0	—	—	—	—	—	—	—	—	—	—	—	—	
	Kaohsiung		ep	12 59.6	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hsinchu		ep	12 3.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Tainan		ep	13 8.4	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hengchun		ep	13 9.6	—	—	—	—	—	—	—	—	—	—	—	—	0
8	Tawu	21	p	00 40 21.8	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hengchun		ep	40 29.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taichung		ep	45	—	—	—	—	—	—	—	—	—	—	—	—	0
9	Taipei	21	ep	09 23 33.9	—	—	—	—	—	—	—	—	—	—	—	—	0
	Tawu		p	23 54.1	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hengchun		ep	24 01.5	—	—	—	—	—	—	—	—	—	—	—	—	0
10	Taipei	23	ep	00 28 30.6	—	—	—	470	370	—	15.6	15.6	—	—	—	—	0
	Ilan		ep	28 35.6	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hwalien		p	28 46.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taitung		ep	28 50.5	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hsinchu		ep	28 58.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hsinkong		ep	28 59.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hengchun		ep	29 00.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Tawu		p	29 04.1	—	—	—	—	—	—	—	—	—	—	—	—	0
	Tainan		ep	29 05.5	—	—	—	—	—	—	—	—	—	—	—	—	0
	Kaohsiung		ep	29 09.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taichung		ep	29 12.5	—	—	—	—	—	—	—	—	—	—	—	—	0
	Alishan		ep	29 20.0	—	—	—	—	—	—	—	—	—	—	—	—	0
11	Taipei	23	ep	01 12 27.5	—	—	—	—	—	—	—	—	—	—	—	—	0
	Ilan		ep	12 31.7	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hwalien		p	12 33.9	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hsinkong		p	12 39.5	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taitung		ep	12 42.7	—	—	—	—	—	—	—	—	—	—	—	—	0

No.	station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximun Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
					$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s				m
	Tawu		p	12 48.4	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hengchun		ep	12 59.2	—	—	—	—	—	—	—	—	—	—	—	—	0
	Alishan		p	13 11.0	—	—	—	—	—	—	—	—	—	—	—	—	0
	Kaohsiung		ep	13 29.3	—	—	—	—	—	—	—	—	—	—	—	—	0
12	Taipei	23	ep	22 27 32.9	—	—	—	—	—	—	—	—	—	—	—	—	0
	Ilan		ep	27 44.5	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hwalien		p	27 57.7	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taitung		ep	28 01.4	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hengchun		ep	28 18.2	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taichung		ep	28 46.8	—	—	—	—	—	—	—	—	—	—	—	—	0
13	Tawu	29	p	06 41 18.6	—	—	—	—	—	—	—	—	—	—	—	—	0
	Hwalien		p	41 22.2	—	—	—	—	—	—	—	—	—	—	—	—	0
	Taipei		ep	41 29.6	—	—	—	—	—	—	—	—	—	—	—	—	0

(d)



# 地震季報

第七卷 第二號

中華民國四十九年四、五、六月

## THE SEISMOLOGICAL BULLETIN

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64 KUNG YUAN ROAD, TAIPEI, TAIWAN, CHINA



General Aspect of Earthquakes

April to June 1960

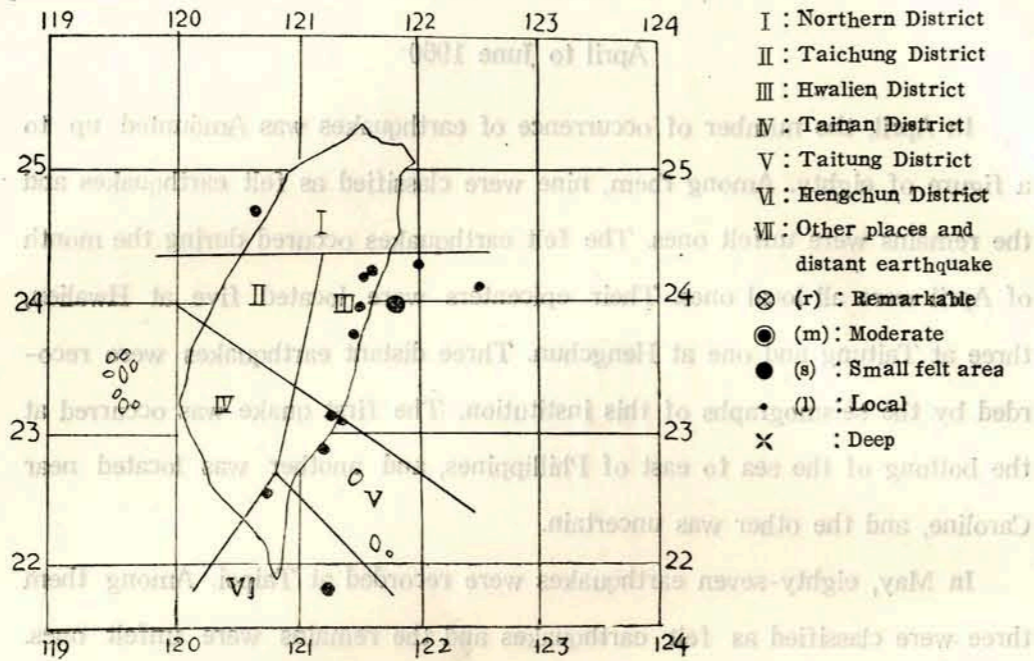
In April, the number of occurrence of earthquakes was Amounted up to a figure of eighty. Among them, nine were classified as felt earthquakes and the remains were unfelt ones. The felt earthquakes occurred during the month of April were all local ones. Their epicenters were located five at Hwalien, three at Taitung and one at Hengchun. Three distant earthquakes were recorded by the seismographs of this institution. The first quake was occurred at the bottong of the sea to east of Phillipines, and another was located near Caroline, and the other was uncertain.

In May, eighty-seven earthquakes were recorded at Taipei. Among them three were classified as felt earthquakes and the remains were unfelt ones. These felt earthquakes were mostly local ones. Except one was classified as a small felt area earthquake. This small felt area earthquake was happened on 15th. It's epicentre was located at 25kms east of Hwalien. Nine distant earthquakes had trased out from the seismogram at Taipei. Their epicenters were two at the vicinity of Celebes Is., one at Ryukyu Is., three near the coast of Chile, and the remains were possibly Chilean aftershock.

In June, the number of occurrence of earthquakes was fourty-four this number had a decrease of 50 percent in comparison to the previous month. Among them, one was classified as local felt earthquake and the remains were unfelt ones. Six distant earthquakes had appeared in the month of June. The position of the epicenter was reported at 5.5S, 151.5E, Australia. Another was located in middle Siberia, the third one was the aftershock of Chile, and the rests were unknown.



Epicenters of Felt Earthquakes in April to June, 1960.



Number of earthquakes classified according to its magnitude and districts April to June, 1960.

Classification	Number of felt earthquakes					Number of unfelt earthquakes	Total
	Magnitudes	Remarkable	Moderate	Small felt area	Local		
Districts							
Northern District		—	—	—	1	1	33
Taichung "		—	—	—	—	0	6
Hwalien "		—	—	1	6	7	81
Tainan "		—	—	—	—	0	4
Taitung "		—	—	—	3	3	38
Hengchun "		—	—	—	2	2	18
Other places "		—	—	—	—	0	18
Total		—	—	1	12	13	198

Felt earthquake in the month of April to June, 1960

No.	Month	P. (G. M. T.)			Mag-nitude	Epicenter	Latitude		Longitude	Depth
		d.	h.	m.			N.	E.		
	April	7	03	11	1	34Kms. ESE. of Hengchun.	—	—	20	
29	"	9	17	03	"	45Kms. S. of Ilan.	—	—	10	
30	"	16	06	27	"	12Kms. SSW. of Hwalien.	—	—	5	
31	"	20	14	25	"	60Kms. NE. of Hwalien.	—	—	10	
32	"	24	06	54	"	Near Hwalien.	—	—	—	
33	"	26	20	19	"	95Kms. ENE. of Hwalien.	—	—	40	
34	"	29	16	09	"	Near Hsinkong.	—	—	—	
35	"	29	17	00	"	20 Kms. SSW. of Hsinkong.	—	—	0~10	
36	"	29	18	54	"	Near Hsinkong.	—	—	—	
37	May	15	13	30	S	25 Kms. E. of Hwalien.	23.9	121.8	20	
38	"	16	21	50	1	27Kms. N. of Hwalien.	—	—	20	
39	"	26	17	09	"	50Kms. SW. of Taitung.	—	—	5	
40	June	20	08	23	"	28Kms. WSW. of Hsinchu.	—	—	40	

Unfelt Earthquakes in the month of April to June 1960.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
250	April	2	20	26	Northern district.	266	April	10	05	12	Near Hwalien.
251	"	4	09	32	Near Taitung.	267	"	10	08	25	Hwalien district.
252	"	5	04	32	Hwalien district.	268	"	10	09	20	Near Taitung.
253	"	5	17	07	52Kms. ENE. of Tainan.	269	"	10	10	09	Northern district.
254	"	7	02	24	Hwalien district.	270	"	10	10	39	"
255	"	8	04	02	34Kms. ESE. of Hengchun.	271	"	11	10	16	Near Hwalien.
256	"	8	11	21	20Kms. SSW. of Hsinkong.	272	"	11	10	17	Hwalien district.
257	"	8	12	34	Near Taitung.	273	"	13	04	54	"
258	"	9	01	48	Northern district.	274	"	13	14	55	"
259	"	9	03	12	Hengchun district.	275	"	13	17	15	Hengchun district.
260	"	9	13	43	Hwalien district.	276	"	13	19	25	70Kms. E. of Ilan.
261	"	9	14	16	"	277	"	14	01	04	35Kms. N. of Hwalien.
262	"	9	17	03	Northern district.	278	"	14	01	47	Hwalien district.
263	"	9	17	20	45Kms. S. of Ilan.	279	"	14	14	14	20Kms. NNE. of Taitung.
264	"	9	18	20	Near Hwalien.	280	"	16	15	52	Hengchun district.
265	"	10	02	34	Northern district.	281	"	17	18	16	84Kms. W. of Hengchun.



No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
282	April	17	18	24	84Kms. W. of Hengchun.	316	April	29	17	13	20Kms. SSW. of Hsinkong.
283	"	18	21	28	Near Hwalien.	317	"	29	19	36	Near Caroline Is. 8.0N, 142.0E, (d)
284	"	19	02	35	Near Hsinkong.	318	"	29	20	49	Hwalien district.
285	"	19	15	28	Near Hwalien.	319	"	30	02	18	"
286	"	20	09	42	Northern district.	320	"	30	04	06	Uncertain. (d)
287	"	20	11	42	"	321	May	2	00	57	Near Hsinkong.
288	"	21	03	04	40Kms. WNW. of Hwalien.	322	"	2	12	15	Near Celebes Is. O.N, 121.5E.
289	"	20	00	00	Taitung district.	323	"	3	08	05	Hwalien district.
290	"	22	06	40	Near Taitung.	324	"	3	13	27	Near Celebes Is. O.N, 121.5E.
291	"	22	23	52	28Kms. NW. of Hsinkong.	325	"	3	18	51	Hwalien district.
292	"	23	20	49	93Kms. ESE. of Hengchun.	326	"	3	22	26	116Kms. ESE. of Ilan.
293	"	23	21	06	Near Taitung.	327	"	4	13	04	Hwalien district.
294	"	24	03	25	For east of Luzon 18.3N, 127.5E.	328	"	4	13	57	Near Taitung.
295	"	24	07	29	Hengchun district.	329	"	4	15	15	Hwalien district.
296	"	24	20	13	Northern district.	330	"	4	15	55	93Kms. ESE. of Hwalien.
297	"	25	01	40	"	331	"	4	22	30	Near Hwalien.
298	"	25	07	01	Hwalien district.	332	"	5	02	38	Hwalien district.
299	"	25	13	32	Hengchun district.	333	"	5	03	25	Northern district.
300	"	26	02	23	Northern district.	334	"	5	07	06	Taitung district.
301	"	27	04	00	Near Hwalien.	335	"	5	09	28	Near Hwalien.
302	"	27	22	45	Hengchun district.	336	"	5	17	11	35Kms.ENE. of Hwalien.
303	"	28	19	21	Near Hwalien.	337	"	6	12	59	Northern district.
304	"	28	19	23	"	338	"	6	23	14	Near Ilan.
305	"	29	13	38	Hengchun district.	339	"	7	08	44	Near Hwalien.
306	"	29	16	01	Near Hsinkong.	340	"	7	11	41	Northern district.
307	"	29	16	02	"	341	"	7	14	00	105Kms. ENE of Hwalien.
308	"	29	16	11	"	342	"	8	08	20	Taitung district.
309	"	29	16	13	"	343	"	8	08	53	Near Hwalien.
310	"	29	16	13	"	344	"	8	09	06	Hwalien district.
311	"	29	16	21	"	345	"	8	15	45	"
312	"	29	16	22	"	346	"	9	17	29	Near Hsinkong.
313	"	29	17	00	20Kms. SSW. of Hsinkong.	347	"	10	08	00	Hwalien district.
314	"	29	17	05	"	348	"	10	15	19	Near Hwalien.
315	"	29	17	06	"	349	"	10	17	41	Hwalien district.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
350	May	11	09	56	Northern district.	384	May	21	23	58	44Kms. NNE. of Hsinkong.
351	"	13	05	19	Hwalien district.	385	"	22	10	57	235Kms. SSE. of Hengchun.
352	"	13	05	41	Northern district.	386	"	22	11	49	Uncertain (d)
353	"	13	10	10	118Kms. ESE. of Ilan.	387	"	22	19	15	Near Coast of Chile. (d)
354	"	13	13	19	Northern district.	388	"	22	19	31	"
355	"	13	13	56	"	389	"	23	01	51	Hwalien district.
356	"	13	19	13	Near Hwalien.	390	"	24	14	58	Uncertain (d)
357	"	15	02	09	Taitung district.	391	"	25	13	43	"
358	"	15	16	17	25Kms. E. of Hwalien.	392	"	26	16	35	Near Yu-shan.
359	"	15	16	40	"	393	"	27	09	02	Northern district.
560	"	15	17	15	Tainan district.	394	"	28	01	10	Near Hwalien.
361	"	15	20	29	Near Hwalien.	395	"	28	14	18	30Kms. N. of Hwalien.
362	"	16	01	59	27Kms. N. of Hwalien.	396	"	29	01	01	Taichung district.
363	"	16	02	53	Near Hwalien.	397	"	29	05	14	Hengchun district.
364	"	16	17	26	"	398	"	29	08	20	300Kms. E. of Ilan.
365	"	17	01	38	70Kms. SE of Hengchun.	399	"	31	05	40	42Kms. SSE of Hwalien.
366	"	17	01	53	Near Hwalien.	400	"	31	09	31	Near Ilan.
367	"	17	10	35	50Kms. ENE of Hwalien.	401	"	31	09	33	"
368	"	17	13	45	Hengchun district.	402	"	31	20	53	Hwalien district.
369	"	17	20	12	Near Hwalien.	403	"	31	23	31	"
370	"	17	21	08	Hwalien district.	404	June	1	09	59	Near Taichung.
371	"	17	23	23	Near Hsinkong.	405	"	1	11	36	Hengchun district.
372	"	18	06	37	Ryukyu Is. 29.0N 130.0E.	406	"	1	12	27	Northern district.
373	"	18	09	03	Near Hwalien.	407	"	1	15	38	70Kms. ESE of Ilan.
374	"	19	10	52	Hengchun district.	408	"	1	21	03	Northern district.
375	"	19	18	13	100Kms. ESE of Hengchun.	409	"	2	07	54	5.5S. 151.5E. (d)
376	"	20	07	08	Near Hwalien.	410	"	2	17	32	Hwalien district.
377	"	20	19	33	"	411	"	3	15	17	Northern district.
378	"	20	21	37	Taitung district.	412	"	4	06	25	Taichung district.
379	"	20	22	35	Near Hwalien.	413	"	4	20	10	Northern district.
380	"	20	05	20	Near Hwalien.	414	"	6	06	16	Uncertain (d)
381	"	21	08	19	Hwalien district.	415	"	6	09	40	33Kms. NNE of Hwalien.
382	"	21	10	21	Near Coast of Chile. 37.5S 73.5W.	416	"	8	06	42	Hwalien district.
383	"	21	18	30	Northern district.	417	"	8	09	16	"



No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
418	June	8	20	12	75Kms. ENE of Taipei.	433	June	20	16	45	Hwalien district.
419	"	11	01	39	Hwalien district.	434	"	20	14	30	Uncertain (d)
420	"	11	15	22	"	435	"	21	23	52	12Kms. SSW of Taitung.
421	"	11	15	29	The middle district of Ciberia. (d)	436	"	22	09	31	10Kms. SSW of Taitung.
422	"	11	16	46	Uncertain (d)	437	"	22	13	09	Taichung district.
423	"	12	01	22	Near Hengchun.	438	"	22	13	59	Near Taitung.
424	"	12	11	04	Near Hwalien.	439	"	24	01	17	60Kms. WNW of Taipei.
425	"	12	19	21	Hengchun district.	440	"	24	10	36	Hengchun district.
426	"	13	08	51	58Kms. SE of Hwalien.	441	"	24	12	15	53Kms. SE of Hengchun.
427	"	15	15	41	Taitung district.	442	"	25	01	34	Near Hwalien.
428	"	16	21	01	Near Hwalien.	443	"	25	06	14	Near Taitung.
429	"	16	22	01	"	444	"	26	21	46	84Kms. ENE of Hwalien.
430	"	18	13	32	Near Yu-shan.	445	"	27	17	43	Taitung district.
431	"	19	17	21	Hwalien district.	446	"	29	13	21	Near Hwalien.
432	"	20	02	21	Uncertain (d)						

Major Earthquakes Which Occurred in April 1960.

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P-S Intensity	Epicenter & Remarks				
					N	E	Z	N	E	Z	N	E	Z						
					h. m. s.	μ	μ	μ	μ	μ	μ	s	s			s			
1	Hengchun	7	ip	03 11 30.8	+	4.3	+	51.7	-	116.3	-	7366	151	-	?	?	4.6	II 34Kms. ESE	
	Tawu		ip	36.0	+	-	-	?	-	-	-	-	-	-	-	-	6.9	O of Hengch-	
	Taitung		p	41.1	-	-	-	-	-	-	-	-	-	-	-	-	10.9	O un.	
	Tainan		p	46.5	-	-	-	-	-	-	-	-	-	-	-	-	23.9	O H=20Kms.	
	Hsinkong		ep	48.3	-	-	-	-	-	-	-	-	-	-	-	-	12.4	O (1)	
	Kaohsiung		ep	51.1	-	-	-	-	-	-	-	-	-	-	-	-	5.2	O	
	Alishan		ep	12 00.0	-	-	-	-	-	-	-	-	-	-	-	-	-	O	
	Hwalien		ep	03.4	-	-	-	-	-	-	-	-	-	-	-	-	23.7	O	
	Taichung		ep	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	O	
	Ilan		ep	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-	O	
Taipei		ep	28.8	-	-	-	-	-	-	-	-	-	-	-	-	-	44.7	O	
2	Yu-shan	9	ep	17 03 26.8	-	-	-	-	-	-	414	457	-	1.5	2.2	-	21.3	II 45Kms. S of	
	Ilan		ip	49.7	+	13.0	-	39.0	-	81.0	517	618	275	1.9	1.9	2.2	6.0	II Ilan	
	Taipei		p	53.5	+	2.3	±	0	±	0	203	242	112	1.5	1.4	2.0	11.7	O H=10Kms.	
	Hsinchu		ep	57.5	-	-	-	-	-	-	375	463	-	2.5	2.0	-	11.3	I (1)	
	Taichung		p	57.7	-	-	-	-	-	-	-	-	-	-	-	-	15.4	O	
	Alishan		ep	59.0	-	-	-	-	-	-	-	-	-	-	-	-	16.4	O	
	Yu-shan		p	59.2	-	-	-	-	-	-	-	-	-	-	-	-	15.1	O	
	Hsinkong		ep	04 00.6	-	-	-	-	-	-	-	-	-	-	-	-	-	17.2	O
	Taitung		p	07.8	-	-	-	-	-	-	-	-	-	-	-	-	-	20.1	O
	Penghu		p	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8	O
Tainan		ep	20.1	-	-	-	-	-	-	-	-	-	-	-	-	-	28.8	O	
Hengchun		ep	26.9	-	-	-	-	-	-	-	-	-	-	-	-	-	27.4	O	
3	Yu-shan	24	p	03 25 56.3	-	-	-	-	-	-	-	-	-	-	-	-	01 40.6	O Far east of	
	Taitung		ep	27 39.0	-	-	-	-	-	-	-	-	-	-	-	-	01 46.8	O Luzon	
	Hengchun		p	44.9	-	4.8	-	4.4	-	11.1	-	-	-	-	-	-	01 32.1	O 18.3N, 127.5E	
	Hsinkong		ep	53.1	-	-	-	-	-	-	-	-	-	-	-	-	01 30.1	O	
	Alishan		ep	54.4	-	-	-	-	-	-	-	-	-	-	-	-	01 38.5	O	
	Taichung		p	28 02.3	-	-	-	-	-	-	-	-	-	-	-	-	01 38.9	O	
	Hwalien		ep	00.8	-	-	-	-	-	-	77	68	-	4.7	3.8	-	01 38.3	O	
	Taipei		p	07.5	-	-	-	-	-	-	-	-	-	-	-	-	01 40.9	O	



No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
	Ilan		p	h. m. s. 07.8	μ	μ	μ	μ	μ	μ	s	s	s	m	s	O	
	Hsinchu		ep	29 06.0	-	-	-	-	-	-	-	-	-	-	-	O	
	Tainan		ep	30.3	-	-	-	-	-	-	-	-	-	-	-	O	
4	Hwalien	26	ip	20 19 34.4	+	3.0	+	3.2	-	41.2	127	165	-	1.3	1.1	-	10.7 I 95Kms. ENE
	Ilan		ip	35.6	-	4.0	+	4.0	-	14.0	242	172	-	1.3	1.0	-	11.4 I of Hwalien.
	Taipei		p	40.2	-	-	-	-	-	-	152	121	-	0.6	0.6	-	15.3 O H=40Kms.
	Taichung		p	45.9	-	-	-	-	-	-	-	-	-	-	-	-	20.9 O (1)
	Alishan		ep	46.9	-	-	-	-	-	-	-	-	-	-	-	-	19.3 O
	Yu-shan		ep	47.0	-	-	-	-	-	-	-	-	-	-	-	-	19.0 O
	Hengchun		ep	20 02.9	-	-	-	-	-	-	-	-	-	-	-	-	15.7 O
	Kaohsiung		ep	18.1	-	-	-	-	-	-	-	-	-	-	-	-	O
	Hsinkingong		ep	41.2	-	-	-	-	-	-	-	-	-	-	-	-	15.4 O
	Hsinchu		ep	44.1	-	-	-	-	-	-	-	-	-	-	-	-	15.7 O
5	Ilan	29	ep	19 36 38.7	-	-	-	-	-	-	-	-	-	-	-	-	O Near Car-
	Hengchun		ep	37 16.2	-	-	-	-	-	-	-	-	-	-	-	-	4 5.5 O oline Is.
	Tawu		ep	19.2	?	+	?	-	-	-	-	-	-	-	-	-	4 5.5 O 8.0N, 142.0E.
	Alishan		ep	28.4	-	-	-	-	-	-	-	-	-	-	-	-	4 17.2 O (d)
	Yu-shan		ep	29.1	-	-	-	-	-	-	-	-	-	-	-	-	4 16.8 O
	Hwalien		ep	33.6	-	-	-	-	-	-	-	-	-	-	-	-	O
	Taipei		ep	41.0	-	-	-	-	-	-	-	-	-	-	-	-	O
	Taichung		ep	42.9	-	-	-	-	-	-	-	-	-	-	-	-	O
6	Hengchun	30	ep	04 06 24.8	-	-	-	-	-	-	-	-	-	-	-	-	O Uncertain
	Tawu		ep	39.0	-	-	-	-	-	-	-	-	-	-	-	-	4 04.3 O (d)
	Alishan		ep	46.0	-	-	-	-	-	-	-	-	-	-	-	-	O
	Hwalien		ep	07 00.9	-	-	-	-	-	-	-	-	-	-	-	-	O

Major Earthquakes Which Occurred in May, 1960.

No.	station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
1	Hengchun	2	ep	h. m. s. 12 15 16.2	μ	μ	μ	μ	μ	μ	s	s	s	m	s	O Near Cele-	
	Tawu		ep	17.6	-	-	-	-	-	-	-	-	-	-	-	-	O 0.0N, 121.5E (d)

No.	station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
1	Hwalien	2	ep	h. m. s. 32.2	μ	μ	μ	μ	μ	μ	s	s	s	m	s	O	
	Taipei		ep	42.9	-	-	-	-	-	-	-	-	-	-	-	-	O
2	Hengchun	3	ep	13 27 10.8	-	-	-	-	-	-	-	-	-	-	-	-	O Near Cele-
	Tawu		ep	14.5	-	-	-	-	-	-	-	-	-	-	-	-	O 0N, 121.5E (d)
3	Hwalien	15	ip	13 30 35.4	+	22.0	+	75.2	-	600.0	3875	6365	1400	0.8	1.4	1.2	3.9 IV 25Kms. E. of
	Hsinkingong		ep	38.9	-	-	-	-	-	-	278	233	-	0.7	1.2	-	18.8 II Hwalien.
	Ilan		ip	43.5	-	14.0	±	0	-	19.0	593	?	270	3.0	?	2.7	9.9 II 23.9N, 121.8E.
	Yu-shan		p	45.8	-	-	-	-	-	-	-	-	-	-	-	-	I H=20Kms.
	Taipei		ip	46.9	-	±	0	-	-	-	262	?	91	1.5	?	1.6	14.2 O (s)
	Taichung		ip	46.9	-	8.0	+	49.0	-	105.0	292	179	-	2.7	2.6	-	13.6 I
	Hsinchu		ip	48.5	-	25.0	+	25.0	?	-	1250	875	-	1.2	1.1	-	15.0 I
	Alishan		ip	49.8	+	12.2	+	21.1	-	42.7	-	-	-	-	-	-	14.7 I
	Taitung		ep	50.8	-	-	-	-	-	-	-	-	-	-	-	-	8.2 I
	Tainan		p	31 00.1	+	-	+	-	-	-	-	-	-	-	-	-	22.8 I
	Tawu		p	01.9	-	-	-	-	-	-	92	85	-	1.9	1.2	-	24.2 O
	Hengchun		ep	06.5	-	-	-	-	-	-	149	106	-	1.0	1.2	-	28.4 O
	Kaohsiung		ep	07.6	-	-	-	-	-	-	-	-	-	-	-	-	20.1 O
	Penghu		p	59.5	-	-	-	-	-	-	-	-	-	-	-	-	01 23.8 O
4	Taipei	18	ep	06 37 18.0	-	-	-	-	-	-	-	-	-	-	-	-	O Ryukyu Is.
	Ilan		ep	21.3	-	-	-	-	-	-	-	-	-	-	-	-	O 29.0N, 130.0E.
	Hwalien		ep	27.0	-	-	-	-	-	-	65	68	-	5.1	5.8	-	O 51.3 H=100Kms.
	Alishan		ep	36.0	-	-	-	-	-	-	-	-	-	-	-	-	O 02 12.4 (d)
	Taichung		p	36.5	-	-	-	-	-	-	-	-	-	-	-	-	O 01 53.3
	Yu-shan		ep	39.5	-	-	-	-	-	-	-	-	-	-	-	-	O
	Hsinchu		ep	44.0	-	-	-	-	-	-	-	-	-	-	-	-	O 02 01.0
	Hengchun		ep	45.7	-	-	-	-	-	-	-	-	-	-	-	-	O
	Tawu		p	49.1	-	-	-	-	-	-	-	-	-	-	-	-	O 02 07.3
	Kaohsiung		ep	51.0	-	-	-	-	-	-	-	-	-	-	-	-	O
	Tainan		ep	55.3	-	-	-	-	-	-	-	-	-	-	-	-	O 02 34.9
5	Taichung	21	ep	10 21 57.2	-	-	-	-	-	-	-	-	-	-	-	-	O Near Coast
	Taipei		ep	23 00.0	-	-	-	-	-	-	± 31	± 26	-	18.6	17.6	-	O of Chile, 37.5S, 73.5E.



No.	station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximun Amplitude			Period			P~S Intensity	Epicenter & Remarks		
					N	E	Z	N	E	Z	N	E	Z				
5	Hwalien	21	ep	h. m. s. 16.6	μ	μ	μ	μ	μ	μ	s	s	s	m	s	17 50.2	O Mag. 7 <sup>1</sup> / <sub>4</sub> -
	Tawu		p	19.0													O 7 <sup>1</sup> / <sub>2</sub> (Berk)
	Ilan		ep	24 06.1													O
6	Hengchun	21	ep	11 20 30.2													
	Taitung		ep														
	Alishan		ep														
	Tainan		ep														
	Hsinkong		ep														
7	Taipei	22	ep	11 49 31.0													O Aftershock of Chile earthquake. (d)
	Tawu		ep	43.1													O
8	Hengchun	22	ep	19 15 50.8													O Aftershock of Chile earthquake.
	Hwalien		ep	16 03.2													O
	Taichung		ep	03.4													O (d)
	Taipei		ep	10.5													O
	Tainan		ep	12.9													O
	Tawu		ep	23.7													O
9	Yu-shan	22	ep	19 30 06.7													O Aftershock of Chile earthquake.
	Alishan		ep	13.2													O
	Hsinchu		ep	31 00.0													O (d)
	Hwalien		ep	08.5													O
	Ilan		ep	09.2													O
	Hsinkong		ep	12.0													O
	Tawu		ep	21.6													O
	Tainan		ep	31.3													O
	Taipei		ep	32.5													O
	Taichung		ep	33.3													O
	Hengchun		ep	38.2													O
	Kaohsiung		ep	45.3													
Taitung			ep	52.5													O

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximun Amplitude			Period			P~S Intensity	Epicenter & Remarks		
					N	E	Z	N	E	Z	N	E	Z				
10	Taitung	24	ep	h. m. s. 14 58 44.3	μ	μ	μ	μ	μ	μ	s	s	s	m	s		O Aftershock of Chile earthquake.
	Ilan		ep	59 03.0													O (d)
	Taipei		1	05.0													O
11	Ilan	29	ep	08 20 57.0													31.1 O 30Kms. E.
	Hwalien		ep	21 03.6													31.6 O of Ilan.
	Taipei		ep	05.0													32.1 O (H=80Kms.)
	Taichung		ep	08.0													O
	Yu-shan		ep	10.8													O
	Tawu		ep	18.0													46.2 O
	Hengchun		ep	27.1													50.0 O
	Alishan		ep	30.6													41.1 O

Major Earthquakes Which Occurred in June 1960

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximun Amplitude			Period			P~S Intensity	Epicenter & Remarks		
					N	E	Z	N	E	Z	N	E	Z				
1	Taipei	2	ep	h. m. s. 07 54 37.0	μ	μ	μ	μ	μ	μ	s	s	s	m	s		O 5°.5S,
	Hwalien		ep	41.3													O 151°.5E.
	Tawu		ep	59.1													O (d)
2	Hengchun	6	ep	06 16 02.6													O Epicenter
	Hwalien		ep	03.1													O Uncertain
	Tawu		ep	08.1													O (d)
	Ilan		ep	19.4													O
	Taipei		ep	20.2													O
3	Taipei	11	1	15 29 24.5													O Epicenter Uncertain (d)
	Tawu		1	32 23.5													O (d)
4	Hwalien	11	ep	16 46 14.5													O Epicenter
	Taipei		1	52 50.0													O Uncertain
	Tawu		ep	58 14.8													O (d)
5	Tawu	20	ep	02 21 24.8													O Epicenter Uncertain (d)
	Taipei		1	30 12.0													O
6	Taipei	20	1	14 30 54.5													O Uncertain (d)



# 地 震 季 報

第 七 卷 第 三 號

中 華 民 國 四 十 九 年 七、八、九 月

## THE SEISMOLOGICAL BULLETIN

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TAIWAN WEATHER BUREAU

64 KUNG YUAN ROAD, TAIPEI, TAIWAN, CHINA



## General Aspect of Earthquakes

July to September 1960

In July, the number of earthquakes was seventy-one. Among them six were classified as felt earthquakes and the remains were unfelt ones. A small felt area and five local area earthquakes were recorded during this month.

Eleven distant earthquakes had been recorded on seismograms in Taiwan. Six of these epicenters had been located from Kamchatka and its neighbouring place, Molucca Passage, Ryukyu Islands, W. coast of Sumatra and Ryukyu Islands. The rest was unknown.

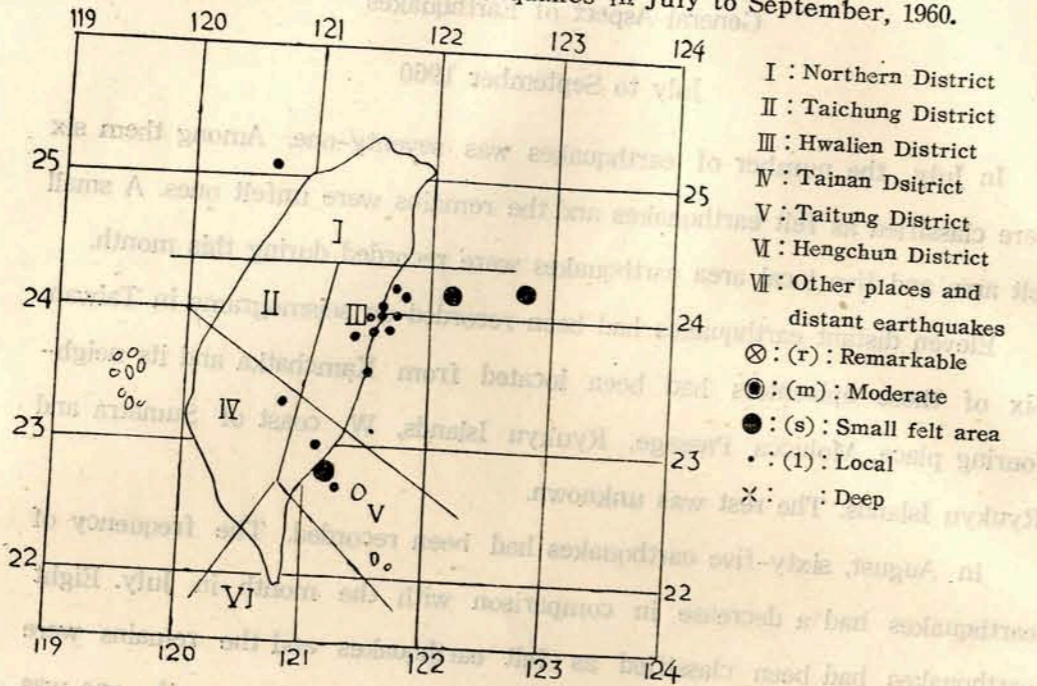
In August, sixty-five earthquakes had been recorded. The frequency of earthquakes had a decrease in comparison with the month in July. Eight earthquakes had been classified as felt earthquakes and the remains were unfelt ones. Among the felt earthquakes happened in this month, one was classified as small felt area earthquake, and the others were classified as local ones. Two distant earthquakes had been recorded at Taipei. The epicenters of these earthquakes were unknown.

During the month of September, forty-four earthquakes were recorded in Taiwan. Among them three were classified as felt earthquakes including one small felt area earthquake and two local ones and the others were unfelt earthquakes.

Among the unfelt earthquakes of this month, eight were classified as distant earthquakes. These earthquakes had been located at S. of Iwojima, 400km W. of Ilan and its vicinity and Luzon Island in Philippines.



Epicenters of Felt Earthquakes in July to September, 1960.



Number of earthquakes classified according to its magnitude and districts July to September, 1960.

Classification	Number of felt earthquakes					Number of unfelt earthquakes	Total	
	Magnitudes	Remarkable	Moderate	Small felt area	Local			Total
Northern District					1	1	33	34
Taichung "							9	9
Hwalien "			2		10	12	70	82
Tainan "					1	1	4	5
Taitung "			1		2	3	11	14
Hengchun "							15	15
Other places "							21	21
<b>Total</b>			3		14	17	163	180

Felt Earthquakes in the Month of July to September, 1960

No.	Month	P. (G. M. T.)			Mag-nitude	Epicenter	Latitude	Longitude	Depth
		d.	h.	m.					
41	July	13	05	27	s	10km E. of Taitung	22.3	121.2	20
42	"	24	12	43	l	Near Hwalien			
43	"	24	17	46	l	25km SW. of Hsinkong			5
44	"	24	18	56	l	Near Hwalien			
45	"	27	03	57	l	"			
46	"	28	10	26	l	40km S. of Hwalien			10
47	Aug.	12	07	26	l	Near Hwalien			
48	"	12	07	40	l	"			
49	"	12	18	09	l	"			0
50	"	17	20	19	l	Near 37km NNE. of Hwalien			
51	"	17	20	20	l	"			
52	"	19	23	07	l	31km SSE. of Alishan			0
53	"	26	12	25	s	135km ENE. of Hwalien	24.2	122.9	30
54	"	27	16	45	l	22km ESE. of Taitung			20
55	Sept.	2	18	41	s	64km ENE. of Hwalien	24.2	122.1	20
56	"	9	01	05	l	22km WNW. of Hwalien			20
57	"	16	14	02	l	83km W. of Taipei			40

Unfelt Earthquakes in the Month of July to September, 1960

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
433	July	1	17	54	Near 36km NNE. of Hwalien	444	July	5	03	09	Hengchun district
434	"	1	19	11	Near Hwalien	445	"	6	05	24	Hwalien district
435	"	1	21	49	Near 23km NNE. of Tawu	446	"	6	11	55	41km W. of Ilan
436	"	2	04	16	Taitung district	447	"	7	03	13	Hwalien district
437	"	2	04	44	Northern district	448	"	8	08	46	Northern district
438	"	2	05	44	Taichung district	449	"	8	12	53	Near 162km E. of Taitung
439	"	2	23	36	Hwalien district	450	"	8	13	04	Taichung district
440	"	3	20	30	(d)	451	"	9	00	43	Near 420km ENE. of Taipei
441	"	4	04	29	Near 36km SW. of Hwalien	452	"	9	04	40	Near Hwalien
442	"	4	04	41	(d)	453	"	9	04	45	"
443	"	4	08	05	Hwalien district	454	"	9	07	39	Hwalien district



No.	Mon- th	P. (G. M. T.)			Epicenter	No.	Mon- th	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
455	July	9	20	25	Hwalien district	489	July	25	08	57	Near Hsinkong
456	"	10	00	09	Off W. coast of Sumatra	490	"	25	04	01	Near coast of Kamchatka
457	"	10	00	22	(d)	491	"	25	11	19	Kamchatka
458	"	10	17	52	Near 17km W. of Tawu	492	"	27	03	26	Taichung district
459	"	10	19	49	Hwalien district	493	"	27	07	52	Near Hwalien
460	"	11	01	08	"	494	"	28	09	32	Taichung district
461	"	11	03	16	"	495	"	28	20	30	Hengchun district
462	"	12	08	37	Near 37km N. of Hsinkong	496	"	29	17	35	(d)
463	"	12	14	20	Hengchung district	497	"	31	03	03	(d)
464	"	12	22	37	Taichung district	498	Aug.	1	10	22	Taichung district
465	"	13	12	12	Hwalien district	499	"	1	16	29	55km E. of Hengchun
466	"	14	02	08	Ryukyu Islands	500	"	2	14	06	Near Ilan
467	"	14	10	31	Molucca Passage	501	"	3	18	16	Hengchun district
468	"	15	01	44	Hengchun district	502	"	4	00	41	Near Hwalien
469	"	15	21	07	Near 48km ENE. of Hwalien	503	"	4	05	45	Hengchun district
470	"	16	07	44	Near Hwalien	504	"	4	07	43	(d)
471	"	17	11	55	48km ESE. of Tainan	505	"	4	08	21	Hwalien district
472	"	17	15	45	Northern district	506	"	4	09	36	Hengchun district
473	"	17	22	41	"	507	"	4	10	21	Hwalien district
474	"	18	01	51	Hwalien district	508	"	5	10	43	Near Ilan
475	"	19	02	19	"	509	"	8	05	00	42km WNW. of Hwalien
476	"	19	14	04	Near Hwalien	510	"	9	12	22	Near 64km ESE. of Ilan
477	"	22	07	36	Near 350km E. of Ilan	511	"	10	04	57	Near 43km SSW. of Ilan
478	"	22	11	08	Northern district	512	"	10	08	36	Near Ilan
479	"	23	02	27	Near Hwalien	513	"	10	11	47	"
480	"	23	22	11	Tainan district	514	"	11	02	58	Hengchun district
481	"	24	03	16	Near Hwalien	515	"	11	08	35	Northern district
482	"	24	05	51	Near 107km ESE. of Hwalien	516	"	11	08	39	"
483	"	24	05	58	Northern district	517	"	11	08	44	"
484	"	24	08	10	Near 150km N. of Taipei	518	"	11	09	04	"
485	"	24	11	59	Hwalien district	519	"	11	19	25	Hwalien district
486	"	24	13	04	Near 63km SE. of Hwalien	520	"	11	20	39	Near 98km ENE. of Hwalien
487	"	24	20	30	Taitung district	521	"	11	20	44	Near 43km NE. of Hwalien
488	"	25	02	00	"	522	"	11	21	04	40km ESE. of Ilan

No.	Mon- th	P. (G. M. T.)			Epicenter	No.	Mon- th	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
523	Aug.	12	02	35	Near Hwalien	559	Sept.	4	06	47	Hengchun district
524	"	12	02	45	Hwalien district	560	"	4	17	18	Northern district
525	"	12	22	53	Near 55km S. of Hwalien	561	"	4	17	46	Hwalien district
526	"	13	02	28	Near Hwalien	562	"	4	21	05	Northern district
527	"	13	07	16	Hengchun district	563	"	6	21	24	Hengchun district
528	"	13	14	35	Near Hwaolien	564	"	7	21	43	Near 90km ENE. of Ilan
529	"	14	02	06	"	565	"	8	02	14	Near Taitung
530	"	14	09	50	"	566	"	8	06	51	Near 180km ENE. of Hsinkong
531	"	15	09	59	"	567	"	9	17	46	Near Ilan
532	"	15	13	28	"	568	"	9	17	49	Near 31km ENE. of Ilan
533	"	15	13	28	"	569	"	10	10	48	(d)
534	"	15	13	28	"	570	"	12	00	48	Northern district
535	"	15	19	09	Northern district	571	"	12	12	18	(d)
536	"	17	06	08	Near Hwalien	572	"	12	16	07	Hwalien district
537	"	17	06	27	Hwalien district	573	"	13	01	13	Near Ilan
538	"	17	19	51	Near Hwalien	574	"	13	03	15	Taitung district
539	"	18	00	15	"	575	"	13	19	04	Taichung district
540	"	18	15	16	"	576	"	14	00	35	Luzon Philippine Islands
541	"	20	03	41	31km SSE. of Alishan	577	"	14	19	04	Hwalien district
542	"	20	22	22	Hengchun district	578	"	19	03	41	(d)
543	"	21	10	26	Near Hwalien	579	"	20	03	22	Hengchun district
544	"	22	14	56	"	580	"	21	15	01	Near 400km W. of Ilan
545	"	26	22	10	Northern district	581	"	21	16	09	"
546	"	27	14	47	Near Taitung	582	"	23	05	54	Hwalien district
547	"	28	14	24	Near Ilan	583	"	24	21	04	"
548	"	28	15	18	Near Ryukyu Islands	584	"	25	15	38	Near Hwalien
549	"	28	16	03	Northern district	585	"	25	23	35	"
550	"	29	05	00	Near 78km NE. of Hwalien	586	"	25	23	40	"
551	"	29	06	55	"	587	"	26	09	41	Taichung district
552	"	29	19	14	Northern district	588	"	26	10	04	Hwalien district
553	"	29	19	28	"	589	"	26	10	31	"
554	"	29	19	30	"	590	"	27	09	49	Hwalien district
555	Sept.	1	01	29	Hengchun district	591	"	28	05	42	Tainan district
556	"	2	01	48	62km SSE. of Hwalien	592	"	28	12	15	Hengchun district
557	"	2	13	54	(d)	593	"	29	00	24	Taichung district
558	"	3	13	30	60km E. of Hengchun	594	"	29	11	23	S. of Iwojima
						595	"	29	15	20	Hwalien district



## Major Earthquakes Which Occurred in July, 1960.

No.	Station	Date	Phase	P. (G.M.T.)			Initial Motion			Maximum Amplitude			Period			P-S	Intensity	Epicenter & Remarks
				h.	m.	s.	N	E	Z	N	E	Z	N	E	Z			
1	Hwalien	3	ep	20	30	12.9	μ	μ	μ	μ	μ	μ	s	s	s	m	s	O (d)
2	Hwalien	4	ep	04	41	02.7	—	—	—	—	—	—	—	—	—	—	—	O (d)
	Taipei		ep	51	11.3		—	—	—	—	—	—	—	—	—	—	—	O
3	Ilan	9	ep	00	43	31.5	—	—	—	—	—	—	—	—	—	—	—	42.2 O Ryukyu
	Hwalien		ep	43	35.0		—	—	—	—	—	—	—	—	—	—	—	34.5 O Islands
	Taipei		ep	43	36.5		—	—	—	—	—	—	—	—	—	—	—	42.5 O
	Hsinchu		ep	43	41.8		—	—	—	—	—	—	—	—	—	—	—	01 7.5 O
	Taitung		ep	43	41.8		—	—	—	—	—	—	—	—	—	—	—	59.9 O
	Kaohsiung		p	43	43.0		—	—	—	—	—	—	—	—	—	—	—	O
	Taichung		p	43	46.5		—	—	—	—	—	—	—	—	—	—	—	O
	Alishan		ep	43	49.2		—	—	—	—	—	—	—	—	—	—	—	54.0 O
	Tawu		p	43	58.1		—	—	—	—	—	—	—	—	—	—	—	52.8 O
	Hengchun		ep	43	59.2		—	—	—	—	—	—	—	—	—	—	—	O
	Tainan		ep	44	01.4		—	—	—	—	—	—	—	—	—	—	—	O
							—	—	—	—	—	—	—	—	—	—	—	01 15.1 O
4	Taipei	10	ep	00	09	43.2	—	—	—	—	—	—	—	—	—	—	—	O off W. coast
	Taichung		ep	10	24.5		—	—	—	—	—	—	—	—	—	—	—	O of Sumatra
	Tainan		ep	11	46.0		—	—	—	—	—	—	—	—	—	—	—	O
	Taitung		ep	11	47.8		—	—	—	—	—	—	—	—	—	—	—	1 8.5 O
	Hwalien		ep	11	54.3		—	—	—	—	—	—	—	—	—	—	—	O
5	Taitung	10	p	00	22	36.0	—	—	—	—	—	—	—	—	—	—	—	1 0.5 O (d)
6	Taitung	13	ip	05	27	34.4	—	—	—	—	—	—	—	—	—	—	—	7.8 II 10km E. of
	Tawu		ep	27	37.2	+	+	—	—	—	—	—	—	—	—	—	—	6.4 O Taitung
	Hsinkong		ep	27	37.4	—	—	—	—	135	133	—	1.0	1.9	—	—	—	7.4 O E121°2
	Hengchun		ip	27	42.1	-	4.4	-	8.4	+ 10.5	—	—	—	—	—	—	—	10.4 I N22°3
	Yushan		p	27	46.0	—	—	—	—	—	—	—	—	—	—	—	—	9.8 O (H=20)
	Alishan		ep	27	46.5	—	—	—	—	—	—	—	—	—	—	—	—	6.2 O
	Tainan		p	27	48.2	+	+	+	—	—	—	—	—	—	—	—	—	18.0 I
	Kaohsiung		p	27	49.3	—	—	—	—	—	—	—	—	—	—	—	—	11.7 I
	Hwalien		ep	27	52.8	—	—	—	—	78	90	92	1.3	1.3	—	—	—	17.5 O

No.	Station	Date	Phase	P. (G.M.T.)			Initial Motion			Maximum Amplitude			Period			P-S	Intensity	Epicenter & Remarks
				h.	m.	s.	N	E	Z	N	E	Z	N	E	Z			
6	Taichung		p	27	58.6		μ	μ	μ	μ	μ	μ	s	s	s	m	s	19.1 O
	Ilan		ep	28	06.0		—	—	—	—	—	—	—	—	—	—	—	19.2 O
	Taipei		ep	28	12.6		—	—	—	—	—	—	—	—	—	—	—	23.2 O
	Hsinchu		ep	29	24.0		—	—	—	—	—	—	—	—	—	—	—	33.0 O
7	Hwalien	14	ep	02	08	5.0	—	—	—	—	—	—	—	—	—	—	—	12.4 O Ryukyu
	Ilan		ep	08	7.9		—	—	—	—	—	—	—	—	—	—	—	32.9 O Islands
	Taipei		ep	08	9.5		—	—	—	—	—	—	—	—	—	—	—	47.0 O
	Alishan		ep	08	25.1		—	—	—	—	—	—	—	—	—	—	—	O
	Taichung		p	08	27.4		—	—	—	—	—	—	—	—	—	—	—	O
	Hengchun		ep	08	45.2		—	—	—	—	—	—	—	—	—	—	—	O
8	Hengchun	14	ep	10	31	28.4	—	—	—	—	—	—	—	—	—	—	—	13 24.7 O Molucca
	Hwalien		ep	31	46.6		—	—	—	—	—	—	—	—	—	—	—	O Passage
	Ilan		ep	31	52.2		—	—	—	—	—	—	—	—	—	—	—	2 40.8 O
	Kaohsiung		ep	31	52.3		—	—	—	—	—	—	—	—	—	—	—	O
	Taipei		ep	32	0.5		—	—	—	—	—	—	—	—	—	—	—	3 36.0 O
9	Taipei	25	ep	04	01	16.8	—	—	—	—	—	—	—	—	—	—	—	O Near coast
	Tainan		ep	05	4.2		—	—	—	—	—	—	—	—	—	—	—	O of Kamch-
	Taichung		ep	05	14.1		—	—	—	—	—	—	—	—	—	—	—	O atka
10	Taipei	25	ep	11	19	18.1	—	—	—	—	—	—	—	—	—	—	—	O N54° E159°
	Yushan		p	19	40.4		—	—	—	—	—	—	—	—	—	—	—	6 12.8 O Kamchatka
	Hsinkong		ep	19	45.8		—	—	—	—	—	—	—	—	—	—	—	6 2.8 O
	Taichung		ep	19	47.4		—	—	—	—	—	—	—	—	—	—	—	O
	Tawu		p	19	53.8		—	—	—	—	—	—	—	—	—	—	—	O
	Hengchun		ep	20	00.0		—	—	—	—	—	—	—	—	—	—	—	O
	Tainan		ep	20	01.0		—	—	—	—	—	—	—	—	—	—	—	O
11	Yushan	29	p	17	35	44.6	—	—	—	—	—	—	—	—	—	—	—	4 46.9 O E149°
	Taipei		ep	36	43.3		—	—	—	—	—	—	—	—	—	—	—	4 40.0 O N32°
	Ilan		ep	36	46.5		—	—	—	—	—	—	—	—	—	—	—	4 3.3 O
	Hwalien		ep	36	52.9		—	—	—	—	—	—	—	—	—	—	—	4 1.6 O
	Taitung		p	37	1.8		—	—	—	—	—	—	—	—	—	—	—	O
	Alishan		ep	37	2.6		—	—	—	—	—	—	—	—	—	—	—	4 22.8 O











# 地震季報

第七卷 第四號

中華民國四十九年十、十一、十二月

## THE SEISMOLOGICAL BULLETIN

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TAIWAN WEATHER BUREAU

64 KUNG YUAN ROAD, TAIPEI, TAIWAN, CHINA



## GENERAL ASPECT OF EARTHQUAKES

October to December, 1960.

In October, the number of earthquakes was recorded seventy. Among them three shocks were classified as felt earthquakes and the remains were unfelt ones. The felt earthquakes in this month were all classified as local earthquakes.

Six distant earthquakes were recorded in October, their epicenters were located at Banda sea, Japan sea, Honshu Japan, Kamachatka, and the other two were unknown.

In November, fifty-seven earthquakes were recorded. Seven of them were classified as felt earthquakes including one small felt area earthquakes which occurred on 25th and it's epicenter was located at N. 23.5. E. 121.9.

Six distant earthquakes were traced out from our seismograms. Their epicenters were found at Santa cruz islands, Szechwan province, Malucca passage Fox islands, and the other two uncertain,

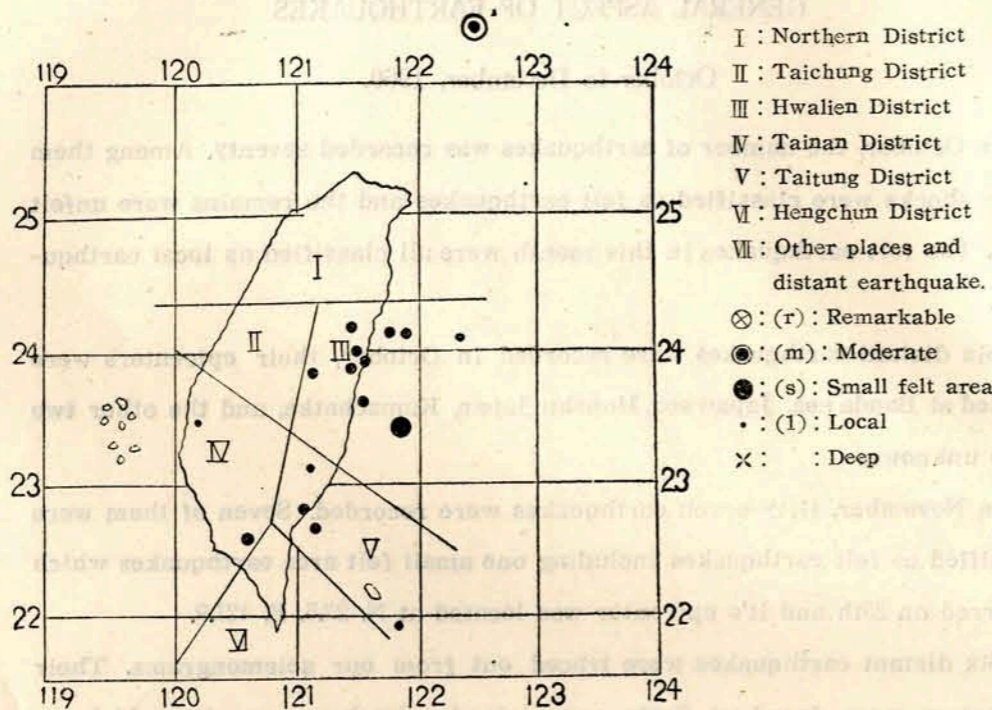
In December, there were sixty-three earthquakes recorded in Taiwan. Among them seven shocks were classified as felt earthquakes, and the others were unfelt ones.

One Moderate earthquakes which occurred on 20rd was located at 25.9 N. 122.6 E., and the remains all were classified as local one.

Five distant earthquakes were recored in December, their epicenters were located at: Outer Mongolia, Mocuvarie Islands, Bonin Islands and the other two were unknown.



Epicenters of Felt Earthquakes in October to December 1960.



Number of earthquakes classified according to its magnitude and districts October to December 1960.

Districts	Number of felt earthquakes					Number of unfelt earthquakes	Total	
	Classification	Remarkable	Moderate	Small felt area	Local			Total
Northern District		—	1	—	—	1	18	19
Taichung "		—	—	—	—	—	5	5
Hwalien "		—	—	1	9	10	81	91
Tainan "		—	—	—	2	2	6	8
Taitung "		—	—	—	4	4	25	29
Hengchun "		—	—	—	—	—	21	21
Other places "		—	—	—	—	—	17	17
Total		—	1	1	15	17	173	190

Felt earthquakes in the month of October to Decembet, 1960

No.	Month	P. (G. M. T.)			Magnitude	Epicenter	Latitude		Longitude	Depth
		d.	h.	m.			N.	E.		
58	Oct.	01	07	07	1	About 40Km ENE of Hwalien.	—	—	—	50
59	"	09	01	36	1	Near Hwalien.	—	—	—	—
60	"	30	13	28	1	About 24km SSE of Hwalien.	—	—	—	20
61	Nov.	02	14	18	1	Near Hwalien.	—	—	—	—
62	"	09	00	53	1	About 78km ENE of Hwalien.	—	—	—	40
63	"	14	05	53	1	15Km Sw of Taitung.	—	—	—	5
64	"	16	17	13	1	27Km NE of Hwalien.	—	—	—	10
65	"	18	20	00	1	About 30km WSW of Hwalien.	—	—	—	10
66	"	18	03	39	1	About 42km ESE of Kaoshiung.	—	—	—	0
67	"	25	09	33	s	70Km ENE of Hsinkong.	—	—	—	60
68	Dec.	03	09	12	1	100km East of Hengchung.	—	—	—	5
69	"	03	10	45	1	22Km South of Tai-tung.	—	—	—	15
70	"	13	01	44	1	25Km NNW of Hwalien.	—	—	—	5
71	"	18	02	42	1	8Km WNW of Hsinkong.	—	—	—	—
72	"	20	06	05	m	145Km NE of Taipei.	25.9	122.0	—	100
73	"	21	16	41	1	Near Hwalien.	—	—	—	—
74	"	30	18	12	1	50Km W. of Tainan.	—	—	—	—

Unfelt Earthquakes in the Month of October to December, 1960.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
596	Oct.	01	06	47	Near Hwalien.	608	Oct.	07	15	24	Banda sea.
597	"	01	19	54	"	609	"	07	17	42	60km East of Ilan.
598	"	01	23	20	"	610	"	07	18	51	Near Hwalien.
599	"	02	03	07	Hwalien district.	611	"	07	23	44	Hwalien district.
600	"	03	07	30	Near Tawu.	612	"	08	05	55	Sea of Japen.
601	"	03	08	00	Near Hwalien.	613	"	08	16	57	65km ENE of Ilan.
602	"	04	06	54	Hwalien district.	614	"	08	20	52	? (d)
603	"	04	16	57	Near Hwalien.	615	"	09	02	13	Hengchung district.
604	"	05	03	51	192km NE of Ilan.	616	"	09	08	05	Near Northern Honshu, Japen.
605	"	05	16	34	Taitung district.	617	"	09	21	40	Hwalien district.
606	"	06	19	46	105km ESE of Ilan.	618	"	10	09	21	Near Hwalien.
607	"	07	03	12	Taichung district.	619	"	10	16	19	Hwalien district.



No.	Mon- th	P. (G. M. T.)			Epicenter	No.	Mon- th	P. (G. M. T.)			Epicenter
		b.	h.	m.				d.	h.	m.	
620	Oct.	10	16	45	Near Hwalien.	654	"	27	10	13	"
621	"	10	17	11	Hwalien district.	655	"	28	05	22	Near Tawu.
622	"	10	18	20	Nortnen district.	656	"	28	05	44	"
623	"	11	19	46	Near Hwalien.	657	"	28	11	26	Hwalien district.
624	"	12	12	42	36Km NNE of Hwalien.	658	"	28	13	26	Kamchatma.
625	"	12	12	53	Hwalien district	659	"	28	15	29	Near Hwalien.
626	"	12	22	31	38Km ENE of Hwalien.	660	"	28	22	34	? (d)
627	"	13	03	33	Near Hwalien.	661	"	30	11	51	Hwalien district.
628	"	13	05	12	Henchung district.	662	"	31	05	08	About 35Km N. of Taitung.
629	"	13	08	23	Hwalien district.	663	NOV.	02	17	24	Santa cruz Is.
630	"	15	11	30	194Km East of Hsinkong	664	"	03	07	13	Near Hwalien.
631	"	15	13	57	Henchung district.	665	"	04	01	06	Near Taitung.
632	"	16	20	57	"	666	"	04	06	45	Near Hwalien.
633	"	16	22	29	37Km ENE of Tainan.	667	"	04	14	01	30Km N. of Hsinkong.
634	"	17	03	32	About 46Km ENE of Hsinkong.	668	"	04	15	09	"
635	"	17	09	13	Henchung district.	669	"	04	16	44	24Km NNW of Hsinkong.
636	"	19	22	31	Hwalien district.	670	"	04	16	50	42Km N. of Hsinkong.
637	"	20	04	43	About 110km ESE of Hwalien.	671	"	04	16	59	"
638	"	20	21	35	Henchung district.	672	"	04	18	52	48Km SSW of Hwalien.
639	"	21	06	23	About 70Km ESE of Hsinkong.	673	"	06	04	46	Taitung district.
640	"	22	00	17	About 75Km E, of Ilan.	674	"	06	06	42	"
641	"	22	04	46	Near Hwalien.	675	"	07	03	12	About 25Km ESE of Taitung.
642	"	22	08	31	Taitung district.	676	"	08	13	05	Near Taitung.
643	"	22	15	56	Near Hwalien.	678	"	08	18	21	"
644	"	23	07	59	Henchung district.	679	"	09	10	47	NW of Szechwan province.
645	"	23	08	52	"	680	"	09	15	39	Henchung district.
646	"	23	09	11	"	681	"	10	00	53	Nortnen district.
647	"	25	07	28	Near Hwalien.	682	"	10	03	51	Taitung district.
648	"	25	13	57	Hwalien district.	683	"	10	14	51	? (d)
649	"	25	19	51	Near Tawu.	684	"	11	03	11	Near Hwalien.
650	"	25	21	06	Taitung district.	685	"	11	09	15	50Km W. of Hsinkong.
651	"	26	12	52	Henchung district.	686	"	12	12	29	Hwalien district.
652	"	26	22	25	Taitung district.	687	"	13	06	42	Molacca passage.
653	"	27	10	09	Taiehung district.	688	"	13	09	30	Fox Is.

No.	Mon- th	P. (G. M. T.)			Epicenter	No.	Mon- th	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
689	Nov.	16	20	16	Near Ilan.	723	Dec.	07	11	06	About 68km SE of Hwalien.
690	"	16	20	44	"	724	"	07	11	24	About 83km ESE of Hwalien.
691	"	17	11	52	Near Tainan.	725	"	10	06	31	Henchung district.
692	"	17	15	13	Near Taitung.	726	"	10	12	59	Taitung district.
693	"	17	16	02	Near Hwalien.	727	"	12	01	44	Northern district.
694	"	19	10	23	"	728	"	12	08	20	Near Hwalien.
695	"	19	12	21	Taitung district.	729	"	12	19	44	"
696	"	19	15	18	"	730	"	13	01	07	Taitung district.
697	"	20	09	53	Near Taitung.	731	"	13	07	59	Macguarie Is.
698	"	21	05	29	Near Hwalien.	732	"	13	10	10	Bonin islands region.
799	"	22	19	20	About 34km ENE of Hwalien.	733	"	13	12	18	Taitung district.
700	"	23	06	41	About 89km ESE of Hwalien.	734	"	13	15	47	Near Hwalien.
701	"	23	16	59	Henchung district.	735	"	13	16	27	"
702	"	24	04	58	Hwalien district.	736	"	14	17	51	About 110km ESE of Ilan.
703	"	24	06	53	Near Hwalien.	737	"	14	23	56	6° N. 133° E.
704	"	24	07	04	? (d)	738	"	15	00	48	Near Henchung.
705	"	24	09	38	About 40km SE of Ilan.	739	"	18	17	27	About 135km ENE of Ilan.
706	"	24	11	06	Tainan district.	740	"	19	06	31	Near Hwalien.
707	"	25	06	52	Hwalien district.	741	"	19	15	41	"
708	"	25	13	44	Near Hwalien.	742	"	20	04	12	"
709	"	26	11	01	About 67km ESE of Ilan.	743	"	20	04	23	About 28km SW of Hwalien.
710	"	26	23	51	Hwalien district.	744	"	20	05	59	Near Hwalien.
711	"	29	14	08	"	745	"	20	09	32	Hwalien district.
712	"	29	15	38	"	746	"	20	22	08	Near Hwalien.
713	"	30	21	14	"	747	"	21	01	45	Taitung district.
714	Dec.	01	09	25	Near Hwalien.	748	"	22	01	45	About 68km ENE of Hwalien.
715	"	01	11	45	About 150km ESE of Taitung.	749	"	22	08	32	Hwalien district.
719	"	01	14	45	Hwalien district.	750	"	22	21	10	"
717	"	02	06	05	Near Taitung.	751	"	23	07	09	Tainan district.
718	"	02	10	40	? (d)	752	"	23	20	33	Henchung district.
719	"	03	04	29	Outer Mongolia.	753	"	24	18	37	Hwalien district.
720	"	03	10	11	Near Tawu.	754	"	24	21	12	Near Yushan.
721	"	04	05	15	Near Hwalien.	755	"	25	17	56	Near Hwalien.
722	"	04	18	27	Henchung district.	756	"	27	00	26	"



No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
757	Oct.	27	05	39	Near Taitung.	764	Oct.	30	17	01	About 25km ESE of Taitung.
758	"	28	13	11	Near Ilan.	765	"	31	07	36	About 256km East of Ilan.
759	"	28	16	34	Northern district.	766	"	31	08	53	Taitung district.
760	"	28	20	05	About 16km NNE of Hsinkong.	767	"	31	08	53	Hwalien district.
761	"	30	12	04	Near Taitung.	768	"	31	10	57	Northern district.
762	"	30	13	08	Near Hwalien.	769	"	31	11	16	"
763	"	30	15	59	Tainan district.						

## Major Earthquakes which occurred in October, 1960.

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z			
1	Henchung	07	ep	h. m. s. 15 24 44.0	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m s	O 7.4S. 130.7E.	
	Alishan		ep	15 24 57.0	-	-	-	-	-	-	-	-	-	-	O Banda sea.	
	Tawu		p	15 25 00.9	-	-	-	-	-	-	-	-	-	-	O	
	Hwalien		ep	15 25 03.6	-	-	-	-	-	-	-	-	-	-	O	
	Ilan		ep	15 25 16.5	-	-	-	-	-	-	-	-	-	-	O	
	Taipei		ep	15 25 22.0	-	-	-	-	-	-	-	-	-	-	O	
2	Taitung	08	p	05 55 51.7	-	-	-	-	-	-	-	-	-	223.3	O 40N. 129.7E.	
	Hsinchu		ep	05 55 06.0	-	-	-	-	-	-	-	-	-	-	O Sea of	
	Taipei		p	05 56 28.9	-	-	-	-	-	-	-	-	-	216.8	O Japan.	
	Ilan		ip	05 56 35.4	-26.0	-25.0	?	+142	-166	-	3.7	3.2	-	-	244.1	O
	Hwalien		ep	05 56 39.4	-	-	-	101	-	-	5.1	-	-	-	225.1	O
	Taichung		p	05 56 40.2	-	-	-	-	-	-	-	-	-	-	O	
	Alishan		ep	05 56 44.0	-	-	-	-	-	-	-	-	-	229.0	O	
	Yushan		p	05 56 49.1	-	-	-	-	-	-	-	-	-	226.7	O	
	Penhu		p	05 56 50.2	-	-	-	238	316	-	-	-	-	-	225.0	O
	Henchung		ep	05 56 58.0	-	-	-	-	-	-	-	-	-	-	229.1	O
	Tawu		p	05 57 01.3	-	-	-	-	-	-	-	-	-	-	253.1	O
Kaoshiung		ep	05 57 05.2	-	-	-	-	-	-	-	-	-	-	O		
Tainan		ep	05 57 06.8	-	-	-	-	-	-	-	-	-	-	219.0	O	
3	Taipei	08	ep	20 52 32.5	-	-	-	-	-	-	-	-	-	-	O (d)	
	Tainan		ep	20 58 22.2	-	-	-	-	-	-	-	-	-	-	O	

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S Intensity	Epicenter & Remarks
					N	E	Z	N	E	Z	N	E	Z		
	Tawu		p	h. m. s. 20 58 40.7	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m s	O
	Taichung		ep	20 58 49.1	-	-	-	-	-	-	-	-	-	-	O
4	Taipei	09	p	09 05 55.3	-	-	-	-	-	-	-	-	-	400.0	O Near coast
	Alishan		ep	09 05 41.0	-	-	-	-	-	-	-	-	-	409.0	O of Northern
	Ilan		ep	09 05 46.2	-	-	-	-	-	-	-	-	-	354.1	O Honshu,
	Hwalien		ep	09 05 50.4	-	-	-	-	-	-	-	-	-	-	O Japan.
	Tawu		p	09 06 02.4	-	-	-	-	-	-	-	-	-	417.9	O
	Henchung		ep	09 06 06.6	-	-	-	-	-	-	-	-	-	-	O
5	Hwalien	28	ep	13 25 46.3	-	-	-	-	-	-	-	-	-	-	O Kamchatka
	Taipei		ep	13 25 32.2	-	-	-	-	-	-	-	-	-	533.0	O
	Tawu		p	13 25 24.7	-	-	-	-	-	-	-	-	-	624.7	O
6	Taipei	28	ep	22 34 10.0	-	-	-	-	-	-	-	-	-	-	O? (d)

## Major Earthquakes which occurred in November, 1960.

No.	Station	Date	Phase	P. (G. M. T.)	Initial Motion			Maximum Amplitude			Period			P~S Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z			
1	Taitung	02	ep	h. m. s. 17 24 16.5	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m s	O Santa cruz	
	Tawu		p	17 24 26.0	-	-	-	-	-	-	-	-	-	738.6	O islands.	
	Hwalien		ep	17 24 26.6	-	-	-	-	-	-	-	-	-	-	O	
2	Taichung	09	p	10 47 45.8	-	-	-	-	-	-	-	-	-	323.1	O Northern	
	Taipei		p	10 47 46.5	+	-	-	-	-	-	-	-	-	320.7	O region of	
	Tainan		e	10 47 49.9	-	-	-	-	-	-	-	-	-	325.7	O szechuan,	
	Alishan		e	10 47 50.0	-	-	-	-	-	-	-	-	-	-	O China.	
	Yushan		p	10 47 56.2	-	-	-	-	-	-	-	-	-	-	O	
	Ilan		p	10 47 53.2	-	-	-	-	-	-	-	-	-	-	O	
	Kaoshiung		p	10 47 56.3	-	-	-	-	-	-	-	-	-	-	O	
	Hwalien		ip	10 47 57.6	+	3.2	-8.3	-14.7	116	205	-	4.2	5.5	-	327.8	O
	Taitung		ep	10 47 59.8	-	-	-	-	-	-	-	-	-	-	335.2	O
	Henchung		ep	10 48 01.7	-	-	-	-	-	-	-	-	-	-	O	
	Tawu		ep	10 48 24.4	-	-	-	-	-	-	-	-	-	-	311.4	O
Hsinchu		ep	10 48 43.0	-	-	-	-	-	-	-	-	-	-	O		







