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第三卷 第一號

中華民國四十五年一、二、三月

THE SEISMOLOGICAL BULLETIN

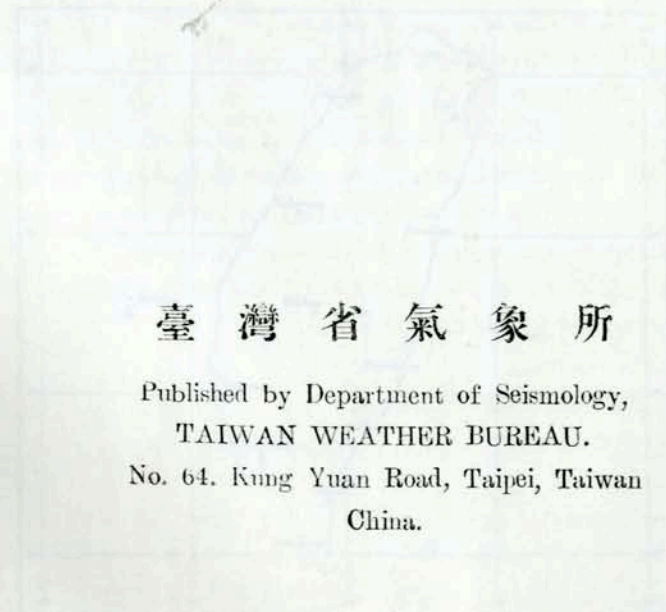
OF

TAIWAN WEATHER BUREAU

January-March 1956.

VOL. III, No. 1

Map showing the position of Seismological Station in Taiwan, China.



臺灣省氣象所

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Geographical coordinates of the Seismological Station, Taiwan China.

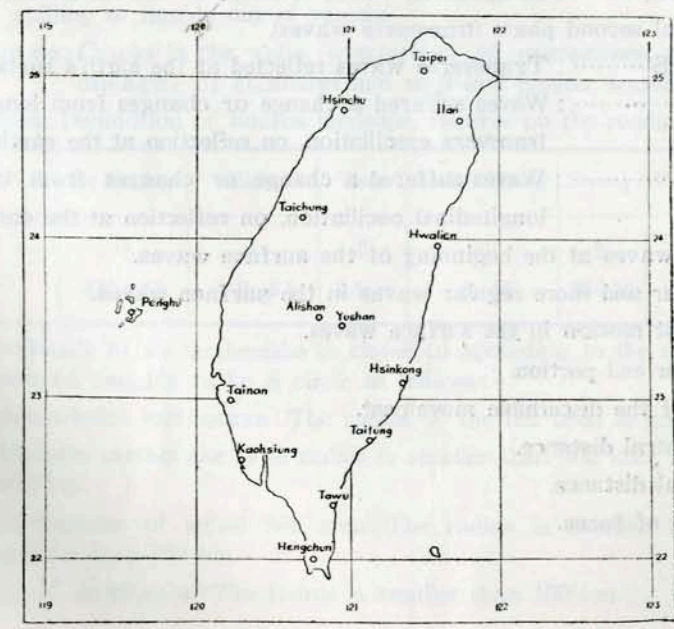
λ : Longitude φ : Geographical Latitude

φ' : Geocentric Latitude

$a = \cos\varphi' \cos\lambda$ $b = \cos\varphi' \sin\lambda$ $c = \sin\varphi'$

Station	φ ; (N)	λ ; (E)	φ'	Altitude	Subsoil	a	b	c	Seismographs
Alislan(mt.)	23.31'	120.48'	23.22'	2406.1 m	Miocene Sandstone	- 0.4700	+ 0.7885	+ 0.3966	W (H. V.) O. S ₂
Hengchun	22.00	120.45	21.52	22.3	Alluvium	- 0.4745	+ 0.7976	+ 0.3724	W (H. V.) O. S ₁
Hsinknog	23.06	121.22	22.58	36.5	"	- 0.4793	+ 0.7862	+ 0.3901	P ₁ S ₂ W (H, V)
Hsinchu	24.48	120.58	24.39	32.8	"	- 0.4677	+ 0.7793	+ 0.4171	P ₁ S ₂
Hwalien	23.58	121.37	23.49	17.6	"	- 0.4796	+ 0.7791	+ 0.4038	W (H. V.) P ₁ S ₁ A.
Ilan	24.46	121.45	24.37	7.4	"	- 0.4784	+ 0.7731	+ 0.4165	W (H. V.) P ₁ S ₂
Kaohsiung	22.37	120.16	22.29	33.1	"	- 0.4657	+ 0.7981	+ 0.3824	P ₁
Penghu	23.32	119.33	23.23	9.4	Bosalt	- 0.4527	+ 0.7985	+ 0.3969	P ₁
Taipei	25.02	121.31	24.53	8.0	Alluvium	- 0.4742	+ 0.7733	+ 0.4208	W (H. V.) O. S ₂ P ₂ A.
Tawu	22.21	120.54	22.13	7.6	"	- 0.4754	+ 0.7944	+ 0.3781	W (H. V.) S ₂
Taitung	22.45	121.09	22.37	8.9	"	- 0.4775	+ 0.7900	+ 0.3846	W (H. V.) S ₂
Tainan	23.00	120.13	22.52	12.7	"	- 0.4637	+ 0.7962	+ 0.3886	W (H. V.) P ₁ S ₂ A.
Taichung	24.09	120.41	24.00	77.1	"	- 0.4662	+ 0.7856	+ 0.4067	W (H. V.) S ₁ P ₁
Yushan (Mt. Morrison)	23.29	120.57	23.21	3850.0	"	- 0.4722	+ 0.7873	+ 0.3964	P ₁

Map showing the position of Seismological Station in Taiwan, China.



Specification of instruments:-

Mass of the pendulum M (kg) Coefficient of friction $\frac{r}{T_0^2}$ (mm/sec²)
 Magnification V Proper period of the pendulum T_0 (sec.)
 Damping coefficient ϵ .

The Constants of Seismographs at Taipei for the Month of January are as follows, and those constants at the other stations are nearly the same.

Seismographs	Component	M.	V.	ϵ .	$\frac{r}{T_0^2}$	T_0
W(H) : Wiechert's horizontal seismograph	E-W	200	77	9	0.004	5.1
	N-S	200	78	9	0.005	5.1
W(V) : Wiechert's Vertical seismograph	U-D	80	75	8	0.003	5.1
P ₁ : Portable seismograph (1)	E-W	18	40	8	0.005	5.1
	N-S	18	40	8	0.005	5.1
O : Omori's horizontal seismograph	E-W	15	20	3	0.002	15.7
	N-S	15	20	3	0.003	15.1
S ₂ : Strong motion seismograph	E-W	2	2	4	0.004	3.8
	N-S	2	2	4	0.004	3.8
	U-D	1.5	2	8	0.004	3.5
P ₂ Portable seismograph (2)	E-W	10	20	2	0.015	4.0
	N-S	10	20	2	0.025	4.0
	U-D	7.5	20	2	0.018	4.0
A : Acceleration Seismograph	E-W	15	220	10	0.5	0.10
	N-S	15	220	10	0.9	0.10
	U-D	15	170	10	0.9	0.03

The present publication inserts the following explanation of the notations only in the first number hereafter.

1. Phase.

- P : Normal first phase (Longitudinal waves)
- pp, PP, PPP, : Longitudinal waves reflected at the earth's surface.
- S : Normal second phase (transverse waves).
- sS, SS, SSS : Transverse waves reflected at the earth's surface.
- PS, PPS, : Waves suffered a change or changes from longitudinal to transverse oscillation, on reflection at the earth's surface.
- SP, SPP, : Waves suffered a change or changes from transverse to longitudinal oscillation, on reflection at the earth's surface.
- L : Long waves at the beginning of the surface waves.
- Q : Shorter and more regular waves in the surface waves.
- M : Largest motion in the surface waves.
- C : Tail or end portion.
- F : End of the discernible movement.
- Δ : Epicentral distance.
- ΔH : Focal distance.
- H : Depth of focus.

μ : Micron.

P-S : Duration of Preliminary tremor.

2. Nature of the motion.

- i : Sudden commencement of a phase.
- e : Gradual or indistinct commencement of a phase.
- ? : Questionable or uncertain.

3. Period and Initial motion.

T : Period, duration of one complete oscillation.

I : Amplitude of the true displacement of the ground from the position at rest.

I_N : N-S component of I.

I_E : E-W component of I.

I_Z : Vertical component of I.

Displacement to the north, east and upward are regarded as positive.

4. Scales of seismic intensity.

The intensity of the shock is estimated according to the scales O-VI, as follows:
 O, No feeling: Shocks too weak to cause human feelings, registered only by seismographs.

- I, Slight: Extremely feeble shocks only felt by persons at rest or by those who are observant to an earthquake.
- II, Weak: Shocks felt by most persons, slight shaking of doors and latticed sliding doors.
- III, Rather strong: Slight shaking of houses and buildings, rattling of doors and latticed sliding doors, swinging of hanging objects like the electric lamps, moving of liquids in vessels.
- IV, Strong: Strong shaking of houses and buildings, overturning of unstable objects, spilling of liquids out of vessels.
- V, Very Strong: Cracks in the walls, overturning of gravestones, etc., lanterns etc., damaging of chimneys and mud-and-plaster warehouses.
- VI, Disastrous: Demolition of houses, landslides, fissures on the roads, the ground etc.

	No Feeling	Slight	Weak	Rather Strong	Strong	Very Strong	Disastrous
Scale	O	I	II	III	IV	V	VI
Acceleration (gal)	0.25-0.8	0.8-2.5	2.5-8	8-25	25-80	80-250	250<

5. The magnitude of an earthquake is classified according to the radius of the felt area assumed, roughly to be a circle as follows:-

- (r) Remarkable earthquake: The radius of the felt area is greater than 300 km.
- (m) Moderate earthquake: The radius is smaller than 300 km. but greater than 200 km.
- (s) Earthquake of small felt area: The radius is smaller than 200 km. but greater than 100 km.
- (l) Local earthquake: The radius is smaller than 100 km.

(d) Distant earthquake: The epicentral distance is greater than 300 km. from the coast of Taiwan.

6. The depth of hypocenter is as a rule expressed in terms of kilometers, If it is not determined so definitely, the following scale will be adopted.

Class	Very shallow	Shallow	Rather deep	Deep
Depth	3~30 km.	30~100 km.	100~200 km.	>200 km.

7. Geographical coordinates:

λ : Longitude (E) φ : Latitude (N)

The coordinates are been expressed in degrees with one place of decimal.

8. Time

Time is referred to Greenwich Mean Time (G. M. T.)

GENERAL ASPECT OF EARTHQUAKES.

January to March, 1956.

1) In January, the number of occurrence of earthquakes were recorded one hundred and nine which twelve of them were classified as felt earthquakes and the remains were the unfelt ones. Two felt earthquakes in this month, were classified as small felt area earthquakes and remains were local ones. Among these small felt area earthquakes one occurred in Taitung and another in Hengchun district, and among those local earthquakes seven were occurred in Hwalien two were occurred in Taitung but the last one was occurred in Tainan district.

There were seven distant earthquakes recorded in this month, Their epicenters were located at Fiji Is. region, (23°S. 179E.) Tonga Is. region, (25°S. 176W) Nicobar Is. (7½ N, 94E.), near coast of Ecuador (½S. 80W.), New Britain (4½S. 150½E.), and New Ireland (4S. 152E.)

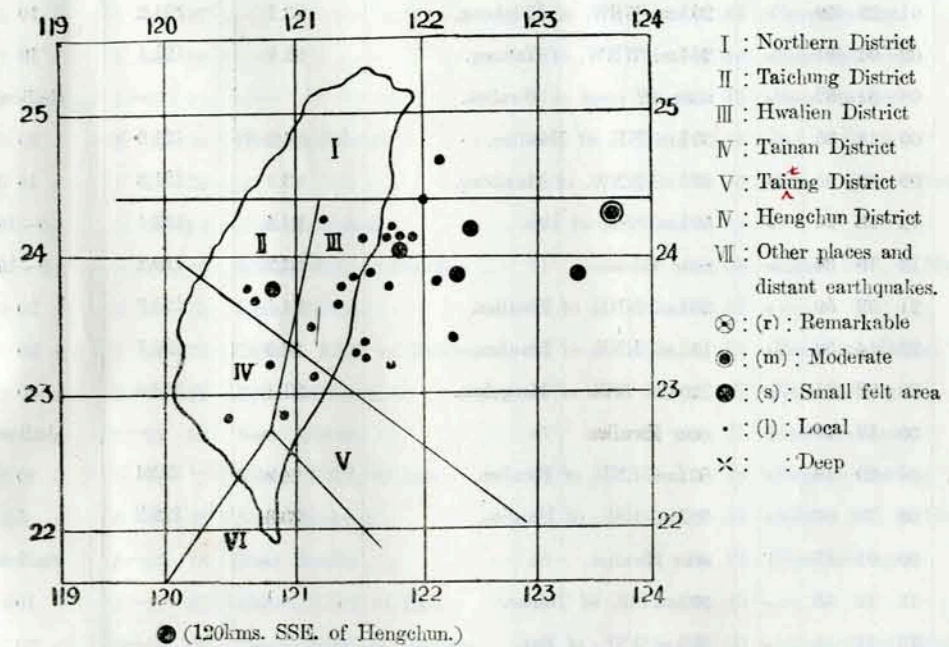
2) In February, the number of occurrence of earthquakes has an increase in comparison with January, and was amounted up to a figure of one hundred and twenty-six. Among them eight were classified as felt earthquakes and the remains were unfelt ones. One moderate earthquake occurred on 20th and its epicenter was located at 24.4 N. 123.6 E. and its depth was estimated about 60 km., Another three small felt area earthquakes, happened near coast of Hwalien. Among four local earthquakes two of them were occurred in Hwalien district, and the remains were located at Tainan and northern districts.

There were seventeen distant earthquakes recorded in this month, the epicenters of these earthquakes were located at Mariana Is. (19N. 145½ E.), coast of Luzon (19N. 119½ E.), and south Honshu of Japan. Twelve aftershock were recorded at coast of Luzon during the period from February 12nd to 15th.

3) In March, one hundred and sixty earthquakes were recorded and the total number has an increase in comparison to February. Thirteen of them were classified as felt earthquakes, and the remains were unfelt ones. The felt earthquakes in this month, one was classified as small felt area earthquake, and the remains were classified as local

ones. Five distant earthquakes were recorded at our stations, two of them occurred at The border between Burma and India, one was at the northern coast of Hokkaido of Japan, and the remains were uncertain.

Epicenters of Felt Earthquakes in January to March, 1956.



Number of earthquakes classified according to its magnitudes and Districts January to March, 1956.

Classification	Number of felt earthquakes					Number of unfelt earthquakes	Total
	Remarkable	Moderate	Small felt area	Local	Total		
Districts							
Northern District	—	—	—	1	1	44	45
Taichung "	—	—	1	2	3	30	33
Hwalien "	—	1	4	19	24	120	144
Tainan "	—	—	—	2	2	23	25
Taitung "	—	—	—	2	2	104	106
Hengchun "	—	—	1	—	1	12	13
Other places "	—	—	—	—	—	29	29
Total	—	1	6	26	33	362	395

Felt earthquakes in the month of January to March, 1956.

No.	Month	P. T.			Magni- tude	Epicenter	Latitude		Longitude	Depth.
		G.	M.	T.			N.	E.		
1	Jan.	d.	h.	m.	1	97 km. ESE. of Hwalien.	23.7°	122.5°	40	
2	"	01	08	20	"	20 km. WSW. of Hsinkong.	23.1	121.2	10	
3	"	01	22	59	"	20 km. WNW. of Taitung.	22.8	121.1	10	
4	"	02	01	01	"	near off coast of Hwalien.	—	—	shallow	
5	"	08	04	02	"	30 km. NE. of Hwalien.	24.2	121.8	20	
6	"	09	18	35	"	40 km. NNW. of Hsinkong.	23.5	121.3	10	
7	"	09	20	05	"	50 km. SSE. of Ilan.	24.4	122.1	0~10	
8	"	12	13	24	"	near Tainan.	23.2	120.8	0~10	
9	"	13	19	34	"	25 km. NNE. of Hwalien.	24.1	121.7	20	
10	"	21	02	59	"	18 km. ENE. of Hwalien.	24.0	121.7	20	
11	"	22	14	59	s	120 km. SSE. of Hengchun.	21.1	121.4	40	
12	"	29	22	21	"	near Hwalien.	—	—	shallow	
13	Feb.	30	12	19	1	80 km. ENE. of Hwalien.	24.2	122.24	10	
14	"	04	20	18	s	57 km. ESE. of Hwalien.	23.8	122.2	5	
15	"	06	13	07	"	near Hwalien.	—	—	shallow	
16	"	09	01	47	1	30 km. SE. of Tainan.	—	—	10	
17	"	13	12	58	"	35 km. ESE. of Ilan.	—	—	20	
18	"	15	11	11	"	27 km. SE. of Hwalien.	—	—	10	
19	"	19	20	46	"	210 km. ENE. of Hwalien.	24.4	123.6	60	
20	"	20	07	58	m	173 km. E. of Hwalien.	23.9	122.3	10	
21	Mar.	23	07	54	s	30 km. NE. of Hsinkong.	23.4	121.6	0~10	
22	"	03	08	46	1	"	23.4	121.6	"	
23	"	04	23	56	"	20 km. SW. of Hwalien.	23.9	121.6	"	
24	"	06	20	16	"	40 km. SSW. of Hwalien.	23.6	121.4	"	
25	"	07	16	00	"	30 km. N. of Hwalien.	24.2	121.6	"	
26	"	11	14	25	"	near Hwalien.	—	—	"	
27	"	13	19	41	"	28 km. NW. of Alishan.	23.7	120.6	20	
28	"	14	21	32	"	"	"	"	"	
29	"	15	01	17	s	"	"	"	"	
30	"	15	01	55	1	35 km. NW. of Alishan.	"	"	10	
31	"	18	07	33	"	40 km. ENE. of Hsinkong.	23.2	121.7	0~10	
32	"	20	09	47	"	50 km. ESE. of Hwalien.	23.9	122.1	"	
33	"	26	15	25	"	50 km. NW. of Hwalien.	24.3	121.3	"	
33	"	30	22	40	"	30 km. NNE. of Hsinkong.	23.4	121.6	"	

Unfelt Earthquakes in the Month of January to March, 1956.

No.	Month	P. T.			Epicenter	No.	Month	P. T.			Epicenter
		G.	M.	T.				G.	M.	T.	
1	Jan.	d.	h.	m.	Northern district.	34	Jan.	d.	h.	m.	Nicobar Is. region.
2	"	1	08	31	"	35	"	11	06	16	Near Hwalien.
3	"	1	09	57	"	36	"	11	10	46	Near Hsinkong.
4	"	1	09	59	"	37	"	11	15	59	Near Hwalien.
5	"	1	10	00	"	38	"	12	02	46	"
6	"	1	10	29	Hwalien district.	39	"	12	12	35	"
7	"	1	10	32	"	40	"	12	23	36	35kms. SE. of Ilan.
8	"	1	16	28	Near Hsinkong.	41	"	13	09	02	"
9	"	2	18	40	40kms. SSE. of Hwalien.	42	"	13	09	06	62kms. SW. of Hwalien.
10	"	2	03	15	Near Alishan.	43	"	13	09	07	"
11	"	2	04	32	280kms. ENE. of Taitung.	44	"	13	09	21	Hengchun district.
12	"	2	22	02	Near Hsinkong.	45	"	13	15	21	Near Taitung.
13	"	2	22	54	Near Alishan.	46	"	13	16	50	Near Hsinkong.
14	"	5	18	12	80kms. ENN. of Ilan.	47	"	14	00	27	Near Hsinkong.
15	"	6	02	40	Near Hsinkong.	48	"	14	07	58	Hwalien district.
16	"	6	03	18	Near Hwalien.	49	"	15	20	56	60kms. SW. of Hwalien.
17	"	6	07	55	48kms. ENE. of Ilan.	50	"	16	09	32	Near Hsinkong.
18	"	6	07	55	38kms. SSW. of Hwalien.	51	"	16	10	45	"
19	"	6	13	32	Near Hsinkong.	52	"	16	13	20	50kms. SE. of Hsinkong.
20	"	6	15	08	48kms. NE. of Chilung.	53	"	16	16	24	Near. Hsinkong.
21	"	6	17	37	30 km. W. of Hwalien.	54	"	16	23	57	Off coast of Ecuador.
22	"	8	04	04	Near Hsinkong.	55	"	17	03	34	68kms ESE. of Ilan.
23	"	8	12	54	South coast of Fiji Is. region.	56	"	17	07	19	Near Hsinkong.
24	"	9	12	16	Near Hsinkong.	57	"	17	07	51	Near Alishan.
25	"	9	12	52	Near Hwalien.	58	"	17	23	16	Near Taitung.
26	"	9	18	37	30kms. NW. of Hwalien.	59	"	17	23	16	Near Hwalien.
27	"	9	18	48	Near Hwalien.	60	"	18	13	28	117 kms. ESE. of Hwalien.
28	"	9	19	37	Tainan district.	61	"	19	05	57	48 kms. SSE. of Taichung.
29	"	9	19	37	60kms. SE. of Hwalien.	62	"	19	06	12	60 kms. ENE. of Ilan.
30	"	10	01	02	Near Hsinkong.	63	"	19	18	22	25 kms. NNW. of Taitung.
31	"	10	03	10	Tonga Is. region.	64	"	20	03	54	Near Hwalien.
32	"	10	09	03	Near Hsinkong.	65	"	20	07	53	Taichung district.
33	"	10	20	44	50 kms. SSE. of Ilan.	66	"	21	13	26	50 kms. SSE. of Ilan.
33	"	11	03	28	180kms. E. of Taitung.	66	"	21	15	44	Hwalien district.
33	"	11	03	42	Near Hwalien.	66	"	21	15	44	Near Yu-shan.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
67	Jan.	22	07	08	Near Hwalien.	101	Feb.	02	00	22	Hwalien district.
68	"	22	13	58	20 kms. W. of Alishan.	102	"	02	04	20	Near Hwalien.
69	"	22	16	24	Near Hsinkong.	103	"	02	07	11	Near Taipei.
70	"	23	06	02	Northern district.	104	"	03	08	36	Near Hsinkong.
71	"	23	00	35	Hwalien district.	105	"	03	15	18	60kms. ESE. of Hwalien.
72	"	23	01	28	Near Hsinkong.	106	"	03	23	28	Hwalien district.
73	"	23	07	39	uncertain.	107	"	04	02	27	Near Hwalien.
74	"	23	15	28	Northern district.	108	"	04	09	21	Near Hsinkong.
75	"	24	09	38	Hwalien district.	109	"	04	14	04	Near Taichung.
76	"	24	21	06	Near Tawn.	110	"	04	23	05	Near Hwalien.
77	"	26	01	05	Near Hsinkong.	111	"	05	01	13	Near Hwalien.
78	"	26	05	58	Near Yu-shan.	112	"	05	03	33	Near Hsinkong.
79	"	26	06	20	"	113	"	05	04	05	"
80	"	26	08	26	"	114	"	05	05	43	"
81	"	26	09	00	"	115	"	05	13	56	Near Taichung.
82	"	27	01	17	Northern district.	116	"	05	13	15	Northern district.
83	"	27	05	32	Near Hwalien.	117	"	06	14	03	70kms. ESE. of Hwalien.
84	"	27	07	00	Tainan district.	118	"	06	18	09	Near Hsinkong.
85	"	27	08	00	Hwalien district.	119	"	06	23	04	32kms. NE. of Alishan.
86	"	27	08	33	"	120	"	07	14	36	76kms. ESE. of Ilan.
87	"	28	07	50	uncertain. (New Britain)	121	"	07	09	12	60kms. E. of Alishan.
88	"	28	15	33	Northern district.	122	"	07	09	21	Near Hsinkong.
89	"	28	15	43	Hwalien district.	123	"	07	11	43	"
90	"	28	21	49	"	124	"	07	19	49	"
91	"	29	07	34	60kms. SE. of Ilan.	125	"	08	09	48	Near Ilan.
92	"	29	21	24	Near Hsinkong.	126	"	09	02	04	Near Hwalien.
93	"	30	06	51	Hengchun district.	127	"	09	09	18	45kms. SW. of Hwalien.
94	"	30	07	32	70kms. ESE. of Ilan.	128	"	09	14	41	Near Hsinkong.
95	"	30	08	32	15kms. N. of Taitung.	129	"	10	18	39	Near Taichung.
96	"	30	15	36	Hengchun district.	130	"	11	01	06	Near Taitung.
97	"	31	09	24	New Ireland ?	131	"	11	05	54	Near Hwalien.
98	"	31	23	08	Hwalien district.	132	"	12	02	47	Near Hsinkong.
99	Feb.	01	13	46	Marianas Island.	133	"	12	09	57	"
100	"	01	18	01	Hwalien district.	134	"	12	11	50	off NW. coast of Luzon.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
135	Feb.	12	12	10	off NW.coast of Luzon.	169	Feb.	15	13	20	Near Hsinkong.
136	"	12	12	18	"	170	"	15	14	29	Taichung district.
137	"	12	13	34	Near Hsinkong.	171	"	15	15	16	Near Hsinkong.
138	"	12	17	14	"	172	"	15	15	38	"
139	"	12	17	14	Near Alishan.	173	"	16	18	43	Taichung district.
140	"	13	19	41	Luzon aftershock.	174	"	16	03	05	Near Hsinkong.
141	"	13	01	43	"	175	"	16	05	20	Near Tawn.
142	"	13	01	47	"	176	"	17	01	20	Near Taichung.
143	"	13	02	13	"	177	"	17	16	43	125kms. E. of Taipei.
144	"	13	02	45	Near Hsinkong.	178	"	18	07	37	South of Honshu, Japan.
145	"	13	03	02	"	179	"	19	00	40	Near Hsinkong.
146	"	13	03	05	Taitung district.	180	"	19	02	10	Near Hwalien.
147	"	13	03	44	Luzon aftershock.	181	"	19	03	33	Near Hsinkong.
148	"	13	07	45	Near Hsinkong.	182	"	19	12	29	34kms. ENE. of Tainan.
149	"	13	08	01	"	183	"	19	17	37	Northern district.
150	"	13	08	07	"	184	"	20	20	28	43kms. E. of Ilan.
151	"	13	08	20	Taitung district.	185	"	20	02	10	50kms. ENE. of Tainan.
152	"	13	08	28	Hwalien district.	186	"	20	10	01	Near Taipei.
153	"	13	08	34	Taitung district.	187	"	20	13	22	263kms. ENE. of Hwalien.
154	"	13	11	48	Near Hsinkong.	188	"	21	15	25	Near Hsinkong.
155	"	13	14	21	Luzon aftershock.	189	"	22	19	17	84kms. E. of Hwalien.
156	"	13	14	48	Northern district.	190	"	21	20	46	Hengchun district.
157	"	13	15	50	Near Hsinkong.	191	"	22	03	18	Hwalien district.
158	"	13	16	01	"	192	"	22	10	25	115kms. ESE. of Ilan.
159	"	14	22	41	Luzon aftershock.	193	"	22	19	43	36kms. WSW. of Hwalien.
160	"	14	22	50	"	194	"	23	18	34	46kms. SSE. of Alishan.
161	"	14	07	39	"	195	"	24	22	56	Near Alishan.
162	"	14	08	22	"	196	"	24	00	04	Near Hsinkong.
163	"	14	12	34	"	197	"	24	03	06	"
164	"	14	17	24	Near Hwalien.	198	"	24	10	51	30kms. NW. of Hwalien.
165	"	15	18	56	Luzon aftershock.	199	"	24	16	37	Tainan district.
166	"	14	23	17	Near Hsinkong.	200	"	25	00	25	Near Taichung.
167	"	15	02	42	Near Taitung.	201	"	25	02	19	Near Hwalien.
168	"	15	07	07	205kms. E. of Hwalien.	202	"	25	15	57	Near Hsinkong.

No.	Month	P. M. T.)			Epicenter	No.	Month	P. M. T.)			Epicenter
		G.	M.	T.)				d.	h.	m.	
203	Feb.	26	04	32	Near Hsinkong.	237	Mar.	03	21	21	Taitung district.
204	"	26	14	22	"	238	"	03	21	37	"
205	"	26	20	25	25kms. S. of Ilan.	239	"	03	23	46	"
206	"	26	20	49	Near Taichung.	240	"	04	00	32	Northern district.
207	"	26	21	39	45kms. NE. of Hwalien.	241	"	04	02	23	"
208	"	26	22	05	Near Hwalien.	242	"	04	04	08	40kms. NNW. of Tainan.
209	"	27	01	37	46kms. SW. of Ilan.	243	"	04	05	02	Northern district.
210	"	27	19	07	Near Hwalien.	244	"	04	10	34	35kms. NE. of Tainan.
211	"	27	19	13	Near Ilan.	245	"	04	19	41	50kms. W. of Alishan.
212	"	28	15	50	Near Hsinkong.	246	"	04	22	38	"
213	"	28	19	28	"	247	"	05	19	58	70kms. W. of Taichung.
214	"	29	00	57	Near Hwalien.	248	"	05	23	36	North coast of Hokkaido, Japan.
215	"	29	04	08	"	249	"	06	03	34	Hengchun district.
216	"	29	20	56	Burma-India border.	250	"	06	11	55	Near Hsinkong.
217	"	29	21	31	"	251	"	06	13	43	"
218	Mar.	01	09	21	Northern district.	252	"	06	16	01	Near Hwalien.
219	"	01	13	48	Near Hsinkong.	253	"	06	21	04	"
220	"	01	15	01	Near Hwalien.	254	"	07	04	42	70kms. E. of Hsinkong.
221	"	01	17	46	Near Hsinkong.	255	"	07	07	03	110kms. NE. of Ilan.
222	"	01	19	32	40kms. NNE. of Hwalien.	256	"	07	03	22	Northern district.
223	"	01	19	44	Near Hwalien.	257	"	07	17	29	220kms. ESE. of Taitung.
224	"	01	19	48	"	258	"	07	22	04	Taitung district.
225	"	01	19	57	"	259	"	07	22	54	"
226	"	01	20	28	"	260	"	08	05	28	Near Hwalien.
227	"	01	23	13	"	261	"	08	06	35	"
228	"	02	05	47	Near Hsinkong.	262	"	08	14	59	70kms. E. of Ilan.
229	"	02	14	58	"	263	"	09	01	40	20kms. SE. of Alishan.
230	"	02	16	40	Taitung district.	264	"	09	01	44	"
231	"	03	10	19	uncertain (d).	265	"	09	02	08	"
232	"	03	10	49	40kms. NNE. of Hsinkong.	266	"	09	17	30	70kms. E. of Hwalien.
233	"	03	13	53	Near Hsinkong.	267	"	09	23	33	Near Hsinkong.
234	"	03	16	09	65kms. W. of Alishan.	268	"	10	02	20	Near Alishan.
235	"	03	17	30	"	269	"	10	21	42	Near Hsinkong.
236	"	03	19	32	Hwalien district.	270	"	10	23	34	35km. N. of Hwalien.

No.	Month	P. M. T.)			Epicenter	No.	Month	P. M. T.)			Epicenter
		G.	M.	T.)				d.	h.	m.	
271	Mar.	11	00	42	35kms. N. of Hwalien.	305	Mar.	16	17	23	50kms. SW. of Hwalien.
272	"	11	01	39	"	306	"	18	02	01	Taitung district.
273	"	11	03	42	Near Alishan.	307	"	18	02	53	Hengchun district.
274	"	11	06	12	Near Taichung.	308	"	18	03	00	20kms. SW. of Hsinkong.
275	"	11	07	14	15kms. ENE. of Taichung.	309	"	18	06	53	20kms. S. of Hengchun.
276	"	11	12	15	Near Hwalien.	310	"	18	14	14	Taitung district.
277	"	12	00	46	Hwalien district.	311	"	18	19	59	"
278	"	12	01	18	Near Hwalien.	312	"	18	21	32	"
279	"	12	15	41	50kms. E. of Taichung.	313	"	18	23	33	Hwalien district.
280	"	12	20	58	Hengchun district.	314	"	19	00	10	40kms. SW. of Taichung.
281	"	13	02	16	Near Hwalien.	315	"	19	04	03	150kms. ENE. of Hwalien.
282	"	13	07	19	"	316	"	19	05	04	90kms. ENE. of Ilan.
283	"	13	08	32	Near Hsinkong.	317	"	19	17	43	Hwalien district.
284	"	13	09	51	Near Tawu.	318	"	19	23	36	Taitung district.
285	"	13	10	50	Near Hsinkong.	319	"	20	07	27	Near Hwalien.
286	"	13	13	17	40kms. SE. of Ilan.	320	"	20	10	24	Hengchun district.
287	"	13	19	41	70kms. ESE. of Hwalien.	321	"	20	12	52	Taitung district.
288	"	13	23	22	Near Hwalien.	322	"	20	22	29	"
289	"	14	02	18	Taichung district.	323	"	21	00	27	"
290	"	14	09	44	Near Hsinkong.	324	"	21	12	37	20kms. SE. of Hsinkong.
291	"	14	16	13	"	325	"	22	03	53	Hwalien district.
292	"	15	01	19	Hwalien district.	326	"	22	14	58	Near Hwalien.
293	"	15	01	20	Hwalien district.	327	"	22	19	42	Taitung district.
294	"	15	01	24	Taichung district.	328	"	22	23	59	Hwalien district.
295	"	15	01	25	Hwalien district.	329	"	23	05	57	Uncertain (d).
296	"	15	01	37	4.5kms. SSW. of Taichung.	330	"	23	06	27	40kms. SE. of Ilan.
297	"	15	02	25	"	331	"	24	07	09	50kms. NE. of Hwalien.
298	"	15	02	43	"	332	"	24	07	22	40kms. SE. of Ilan.
299	"	15	03	25	"	333	"	24	07	32	"
300	"	15	05	21	"	334	"	24	09	31	"
301	"	15	08	07	Hwalien district.	335	"	24	09	46	50kms. SE. of Ilan.
302	"	16	03	43	Taitung district.	336	"	24	09	57	Hwalien district.
303	"	16	08	15	Near Taichung.	337	"	24	10	01	30kms. SSW. of Ilan.
304	"	16	12	46	Hwalien district.	338	"	24	14	33	40kms. NNW. of Hwalien.

18

No.	Station	Date	Phase	P.		Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
				(G.M.T.)		N	E	Z	N	E	Z	N	E	Z				
10	Taichung	13	P	03 46	02.2													
	Alishan		eP		07.4											48.7	0	
	Yu-shan		P		07.4											46.6	0	
	Hwalien		P		22.3											56.2	0	
	Kaohsiung		eP		26.5												0	
	Taitung		P		34.2												11.1	0
	Tainan		P		35.4												0	
	Ilan		eP		47 49.7												53.8	0
11	Tainan	13	P	12 58	46.4											5.0	30kms. SE. of Tainan. H=10kms. (l)	
	Alishan		P		58.5											10.7	0	
	Hsinkong		P		59 08.9											12.8	0	
	Taichung		P		11.0											15.4	0	
	Hwalien		eP		26.9											20.6	0	
12	Hengchun	13	eP	14 21	30.2											38.5	Luzon aftershock. (d)	
	Tawu		eP		59.3											0		
	Hsinkong		eP		22 07.7											48.5	0	
	Taitung		P		08.9											1	44.9	0
	Tainan		eP		12.8											1	30.8	0
	Alishan		eP		13.0											1	37.0	0
	Taichung		P		18.0												0	
	Hwalien		P		36.9											1	17.3	0
	Hsinchu		eP		23 06.1												0	
	Ilan		eP		28.8											1	51.0	0
13	Tawu	13	eP	22 41	08.5											0	Luzon aftershock. (d)	
	Hengchun		eP		08.8											0		
	Hsinkong		P		07.7											0		
	Tainan		eP		17.2											0		
Taitung		P		19.4											0			
Hwalien		P		55.8											1	01.5	0	
Taichung		P		42 20.3												0		
Taipei		P		43 05.8												0		

No.	Station	Date	Phase	P.		Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks
				(G.M.T.)		N	E	Z	N	E	Z	N	E	Z			
14	Tawu	14	eP	12 24	04.0												
	Hengchun		eP		54.7												
	Hsinkong		eP		35 04.5												1
	Taitung		eP		07.9												1
	Tainan		eP		08.7												59.1
	Alishan		eP		08.8												1
	Penghu		eP		09.1												1
	Taichung		eP		15.5												1
	Hwalien		P		24.1												1
	Kaohsiung		P		38.2												0
	Taipei		P		36 26.9												1
	Ilan		P		37.5												1
Hsinchu		P		44.8												0	
15	Hsinchu	15	eP	11 11	27.6												13.6
	Yu-shan		eP		32.5												20.5
	Alishan		eP		32.7												0
	Ilan		iP		12 14.7 + 11.0		6.0 + 36.0		270	275	161	1.2	1.1	1.0			4.6
	Hwalien		P		19.6				52	61	68	0.9	1.3	0.3			11.9
	Taipei		iP		23.7 + 1.3		4.0 + 4.0		100	180	30	1.0	1.3	1.0			7.9
	Taichung		iP		31.7												16.7
	Hsinkong		eP		33.9												21.3
	Taitung		eP		48.3												26.5
	Tainan		eP		54.8												30.8
16	Ilan	18	iP	07 27	40.7 + 13.0 + 32.0 - 40.0				127	95	103	3.1	2.8	2.12			41.9
	Taipei		iP		40.8 + 3.0 + 23.0 - 47.0				250	120	70	13.2	13.6	5.32			48.2
	Hwalien		iP		42.0 + 2.2 + 7.1 - 18.4				172	192	128	2.2	4.2	4.02			51.7
	Hsinchu		P		47.0												2
	Kaohsiung		P		47.6												3
	Hsinkong		iP		49.2 + 5.7 + 12.5 - 5.0				351	136	93	5.6	5.4	4.62			51.8
	Yu-shan		iP		50.7												2
	Taichung		iP		52.4 + 1.6 + 3.2 - 18.3				312	171	138	5.8	6.2	4.92			56.0
Alishan		iP		53.7 - 19.0 - 26.0 ?				279	176		7.4	4.4				2	
																	54.1

South of Honshu. Japan. 30 N. 137 E. H=450kms. (d)

No.	Station	Date	Phase	P.			Initial Motion			Maximum Amplitude			Period			P ~ S	Intensity	Epicenter & Remarks
				(G.M.T.)			N	E	Z	N	E	Z	N	E	Z			
				h.	m.	s.	μ	μ	μ	μ	μ	μ	s	s	s			
2	Tainan	3	eP	16	09	05.3										6.8 O	60kms. N. of Tainan.	
	Yu-shan		eP			08.0										9.0 O	H=10kms. (unfelt)	
	Alishan		eP			08.7										8.4 O		
	Taichung		eP			15.7										33.3 O		
	Kaohsiung		eP			17.1										7.3 O		
	Hsinkong		eP			18.7										15.9 O		
	Tawu		eP			19.2										16.6 O		
	Taitung		eP			19.5										14.8 O		
	Hwalien		eP			31.8										10.6 O		
	Ilan		eP			42.9										20.7 O		
	Taipei		eP			51.0										29.0 O		
3	Taipei	4	eP	23	53	36.6										0	40kms. NE. of Hsinkong.	
	Hsinkong		eP			48.7										4.9 I	H=10kms. (l)	
	Yu-shan		eP			53.0										15.0 O		
	Alishan		eP			58.0										10.2 O		
	Hwalien		eP			58.8										10.3 O		
	Taitung		eP	57	04.1											13.2 O		
	Taichung		eP			08.5										0		
4	Taipei	5	eP	23	25	28.3										5	12.3 O	North coast. of Hokkaido. Japan. (d)
5	Hwalien	7	P	16	03	15.1			+ 7.8	78	99	55	1.0	1.0	0.2	6.4 II	40kms. SSW. of Hwalien.	
	Hsinkong		eP			18.6										9.4 O	H=10kms. (l)	
	Yu-shan		eP			20.0										6.0 O		
	Taichung		P			27.1										13.2 O		
	Taipei		eP			47.8										19.2 O		
6	Hwalien	11	P	14	25	05.5										4.0 I	30kms. N. of Hwalien.	
	Taichung		P			16.5										11.9 O	H=10kms. (l)	
	Hsinkong		P			24.1										0		
	Taipei		P			26.8										12.9 O		
7	Alishan	14	P	21	32	09.7										4.5 I	45kms. SSW.	

No.	Station	Date	Phase	P.			Initial Motion			Maximum Amplitude			Period			P ~ S	Intensity	Epicenter & Remarks
				(G.M.T.)			N	E	Z	N	E	Z	N	E	Z			
				h.	m.	s.	μ	μ	μ	μ	μ	μ	s	s	s			
7	Yu-shan	14	eP	21	32	10.0											4.4 I	of Taichung
	Taichung		iP			15.5 +	2.0 ±	0 +	12.2	181	144	91	2.4	1.4	1.9		8.3 I	H=20kms. (l)
	Taitung		P			20.8											14.9 O	
	Hsinkong		eP			22.5											13.2 O	
	Penghu		eP			23.2											11.5 O	
	Tainan		P			24.0 -			+								10.6 I	
	Hwalien		iP			25.3 +	4.7 +	3.6 +	9.2	111	173		1.3	1.3			12.3 O	
	Tawu		P			29.6											17.6 O	
	Hsiuchu		eP			30.0											10.4 O	
	Hengchun		eP			35.4											24.3 O	
	Ilan		eP			35.5											17.4 O	
	Taipei		eP			38.9											20.2 O	
8	Yu-shan	15	P	01	17	30.0											4.0 I	45 ms. SSW. of Taichung
	Alishan		P			31.1											4.0 I	H=20kms. (l)
	Taichung		iP			35.4 +	4.0 -	1.0 +	8.5	280	196	111	0.6	1.0	1.0		8.0 I	
	Tawu		P			37.4											20.2 O	
	Kaohsiung		P			37.9											13.5 O	
	Tainan		P			42.2											10.4 O	
	Penghu		eP			42.7											11.9 O	
	Hsinkong		eP			43.1											12.7 O	
	Hwalien		P			44.8											12.2 O	
	Taitung		P			47.1											15.4 O	
	Hsiuchu		P			50.0											13.8 O	
	Ilan		P			54.8											19.7 O	
	Hengchun		P			58.0											0	
	Taipei		P			59.2											20.0 O	
9	Alishan	15	P	01	55	00.1											0	30kms. NW. of Alishan.
	Yu-shan		eP			00.1											0	H=10kms. (l)
	Taichung		eP			06.3											6.9 O	
	Tainan		eP			10.2											10.0 O	
	Penghu		eP			10.2											12.0 O	
	Hsinkong		eP			12.7											12.7 O	



地震季報

第三卷 第二號

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GENERAL ASPECT OF EARTHQUAKES

April to June, 1956.

In April, the number of earthquakes was eighty-three and has a decrease in comparison to last month. Among them fourteen were classified as felt earthquakes and the rest were unfelt ones.

Two small felt area earthquakes happened in this month and the local ones were twelve.

Three distant earthquakes were recorded in Taiwan among them two epicenters of these earthquakes, were located near the east and the South coast of Sumantra, and the other was located at east coast of Hokaido, Japan.

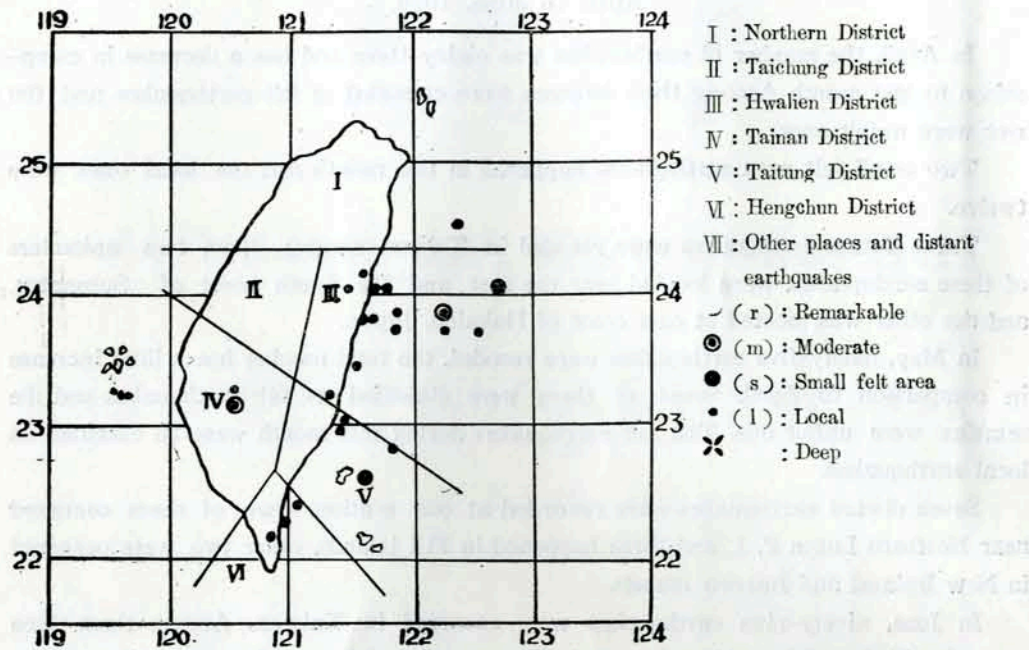
In May, ninety-five earthquakes were recorded, the total number has a little increase in comparison to April. Seven of them were classified as felt earthquakes and the remains were unfelt one. The felt earthquakes during this month were all classified as local earthquakes.

Seven distant earthquakes were recorded at our station, two of them occurred near Northern Luzon P. I. and three happened in Fiji islands, other two were occurred in New Ireland and Borneo Islands.

In June, ninety-nine earthquakes were occurred in Taiwan. Among them three were classified as felt earthquakes, and the rest were unfelt one. One moderate earthquake occurred on 27th, its epicenter was located at 40km. NE of Taiwan, and its depth was estimated about 20km., Two local earthquakes were occurred near Hualien. Four distant earthquakes were recorded, their epicenters were located in Afghanistan, Ryukyu Island, Kamchatka and Solomon Islands respectively.

No.	Date	Time	Locality	Magnitude	Depth (km)	Remarks
1	April 1	10:00	...	...	...	...
2	April 2	...	...	...	...	...
3	April 3	...	...	...	...	...
4	April 4	...	...	...	...	...
5	April 5	...	...	...	...	...
6	April 6	...	...	...	...	...
7	April 7	...	...	...	...	...
8	April 8	...	...	...	...	...
9	April 9	...	...	...	...	...
10	April 10	...	...	...	...	...
11	April 11	...	...	...	...	...
12	April 12	...	...	...	...	...
13	April 13	...	...	...	...	...
14	April 14	...	...	...	...	...
15	April 15	...	...	...	...	...
16	April 16	...	...	...	...	...
17	April 17	...	...	...	...	...
18	April 18	...	...	...	...	...
19	April 19	...	...	...	...	...
20	April 20	...	...	...	...	...
21	April 21	...	...	...	...	...
22	April 22	...	...	...	...	...
23	April 23	...	...	...	...	...
24	April 24	...	...	...	...	...
25	April 25	...	...	...	...	...
26	April 26	...	...	...	...	...
27	April 27	...	...	...	...	...
28	April 28	...	...	...	...	...
29	April 29	...	...	...	...	...
30	April 30	...	...	...	...	...

Epicenter of Felt Earthquakes in April to June, 1956.



Number of earthquakes classified according to its Magnitudes and districts, April to June 1956.

District	Classification Magnitudes	Number of felt earthquakes				Number of Unfelt Earthquakes	Total
		Remarkable	Moderate	Small felt area	Local		
Torthern District		—	—	—	1	1	34
Taichung District		—	—	—	—	—	12
Hualien District		—	1	1	12	14	78
Tainan District		—	1	—	1	2	15
Taitung District		—	—	1	3	4	88
Hengchun District		—	—	—	3	3	11
Otheo Places		—	—	—	—	—	15
Total		—	2	2	20	24	253

Felt Earthquakes in the Month of April to June, 1956.

No.	Month	P. (G. M. T.)			Magni- tude	Epicenter	Latitude	Longitude	Depth.
		d.	h.	m.					
34	April	01	15	23	1	Near Hualien	—	—	(about)
35	"	02	01	11	"	NE 30km. of Hengchun.	22.2	120.9	
36	"	05	02	33	"	Near Hualien.	—	—	
37	"	05	06	05	"	Near Hsinkong.	—	—	
38	"	05	13	29	s	Hualien E. 120 km.	24.0	122.7	60
39	"	07	04	44	1	75km. ESE of Taitung.	22.8	121.8	0~10
40	"	08	00	07	"	20km. NNW of Hsinkong.	23.3	121.3	0~10
41	"	08	19	46	"	60km. S. of Hualien.	23.4	121.6	0~10
42	"	09	18	50	"	18km. E. of Tawu	22.3	121.1	0~5
43	"	17	07	20	s	48km. E. of Taitung.	22.7	121.6	20
44	"	19	17	32	1	38km. NE of Tainan.	23.2	120.1/2	0~10
45	"	20	02	46	"	20km. ESE of Hualien	23.9	121.8	20
46	"	23	03	45	"	30km. N. of Hualien.	24.3	121.7	20
47	"	28	07	04	"	22km. NNW of Hualien.	24.2	121.7	0~10
48	May	12	19	21	"	90km. ESE of Hualien.	23.8	122.5	60
49	"	19	01	34	"	Near Hualien	—	—	
50	"	19	13	24	"	"	—	—	
51	"	21	02	26	"	Near Hsinkong.	—	—	
52	"	21	03	12	"	55km. ESE of Han.	24.6	122.3	40
53	"	29	21	49	"	Near Tawu	—	—	40
54	"	31	09	05	"	28km. SE of Hualien.	23.7	121.7	
55	June	27	18	57	m	40km. NE of Tainan.	23.2	120.4	5
56	"	29	02	22	"	60km. E. of Hualien.	23.9	122.2	20
57	"	29	02	28	1	60km. ESE of Hualien.	23.8	122.2	20

Unfelt Earthquakes in the Month of January to June, 1956

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
363	March	31	17	06	40km. WNW of Hualien.	368	April	02	01	22	Near Hengchun.
364	April	01	02	02	Near Hsinkong.	369	"	02	04	15	Near Hualien.
365	"	01	13	14	Taitung District.	370	"	02	12	51	Hualien District.
366	"	01	19	02	Near Hengchun.	371	"	02	11	02	Southern Tibet.
367	"	01	23	57	Hualien District	372	"	02	21	13	Taitung District.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
373	April	03	07	10	Hwalien District.	407	April	19	17	42	Tainan District.
374	"	03	07	48	Near Hwalien.	408	"	20	13	00	Near Hsinkong.
375	"	04	15	20	Northern District.	409	"	20	15	21	Ditto.
376	"	04	16	20	Hwalien District.	410	"	20	23	38	Hwalien District.
377	"	05	00	06	45km. ENE of Taipei.	411	"	21	01	26	400km. ESE of Hengchun.
378	"	05	12	06	54km. ENE of Hwalien.	412	"	21	23	32	Near Hsinkong.
379	"	05	22	27	Northern District.	413	"	22	07	22	70k. S. of Hwalien.
380	"	05	23	26	Ditto.	414	"	22	19	47	50km. E. of Tainan.
381	"	06	07	19	Hwalien District.	415	"	23	03	37	off E. Coast of Hokkaido
382	"	06	10	09	Ditto.	416	"	23	12	12	Near Hsinkong.
383	"	00	17	22	Near Hsinkong.	417	"	23	12	40	Northern District.
384	"	07	04	22	Taitung District.	418	"	23	21	47	Hwalien District.
385	"	07	14	42	37km. NE of Hsinkong.	419	"	24	11	09	15km. W. of Taitung.
386	"	07	19	46	Hengchun District.	420	"	24	11	20	100km. E. of Hwalien.
387	"	08	16	19	Hwalien District.	421	"	26	00	43	Northern District.
388	"	09	11	36	Near Hwalien.	422	"	26	01	52	Near Hwalien
389	"	09	18	02	Hengchun District.	423	"	26	11	24	Near Hsinkong.
390	"	09	22	40	Northern District.	424	"	26	14	52	Near Ishigoki Is.
391	"	10	03	55	Near Hwalien.	425	"	26	17	15	Near Hsinkong.
392	"	10	13	23	Near south coast of Sumatra.	426	"	27	02	45	Ditto.
393	"	10	20	10	78km. ENE of Hwalien.	427	"	27	23	11	Taichung District.
394	"	11	07	35	Near Hsinkong.	428	"	28	06	05	60km. E. of Ilan.
395	"	11	22	32	23km. NE of Tainan.	429	"	28	06	05	Northern District.
396	"	12	07	47	250km. S. of Hengchun.	430	"	28	06	09	Ditto.
397	"	12	11	23	Near Hsinkong.	431	"	29	10	47	110km. NE of Taipei
398	"	13	00	29	Hwalien District.	432	May	01	07	17	Near Hsinkong.
399	"	13	05	13	Hengchun District.	433	"	01	14	54	20km. W. of Hsinkong.
400	"	13	16	55	Near Hsinkong.	434	"	01	17	34	Near Hsinkong.
401	"	13	20	02	Near Hwalien.	435	"	01	23	32	Hwalien District.
402	"	16	11	04	Hwalien District.	436	"	02	07	03	47km. ESE of Hwalien
403	"	17	10	32	Tainan District.	437	"	02	19	01	112km. ESE of Ilan.
404	"	17	14	19	Hwalien District.	438	"	02	20	51	Hwalien District.
405	"	17	14	35	47km. S. of Hwalien.	439	"	02	23	18	70km. ESE. of Hwalien.
406	"	18	06	52	96km. ESE of Ilan.	440	"	03	01	08	80km. ENE. of Hwalien.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
441	May	03	01	47	Near Hsinkong.	475	May	16	15	36	Near Ilan
442	"	03	04	08	Hengchun District.	476	"	16	23	43	Near Hwalien.
443	"	03	21	01	Hwalien District.	477	"	17	00	19	Hwalien District.
444	"	04	01	18	Near Hwalien.	478	"	18	01	20	Near Hsinkong.
445	"	04	15	12	Near Hsinkong.	479	"	19	05	39	Ditto.
446	"	04	15	14	Ditto.	480	"	19	09	51	Near Hsinkong.
447	"	04	18	48	Northern Luzon P. I.	481	"	19	13	57	"
448	"	05	05	57	95km. ENE of Hwalien.	482	"	19	15	00	"
449	"	05	14	53	Near Alishan.	483	"	19	23	08	Near Hwalien.
450	"	07	12	25	Near Hsinkong.	484	"	20	00	10	"
451	"	08	03	09	Near Northern Coast of Luzon P. I.	485	"	20	03	12	Near Hsinkong.
452	"	08	12	39	44km. NE. of Alishan.	486	"	20	11	04	"
453	"	08	18	25	Near Hwalien.	487	"	21	19	20	"
454	"	09	06	08	Near Hsinkong.	488	"	22	05	11	"
455	"	09	11	23	Ditto.	489	"	22	13	43	Near Ireland.
456	"	09	12	15	Hwalien District.	490	"	22	20	06	Near Hsinkong.
457	"	09	18	11	Ditto.	491	"	23	13	20	64km. SE. of Tainan.
458	"	09	18	28	Ditto.	492	"	23	20	59	Fiji Islaut.
459	"	10	15	42	Near Hsinkong.	493	"	23	21	44	Near Hwalien.
460	"	11	13	55	Ditto.	494	"	24	09	02	70km. E. of Taipei.
461	"	12	05	28	Near Hwalien.	495	"	24	17	45	95km. ENE. of Hwalien.
462	"	12	10	31	Near. Hsinkong.	496	"	24	19	13	36km. NE. of Alishan.
463	"	12	15	56	Near Taipei.	497	"	25	11	43	Near Hsinkong.
464	"	12	20	26	Hwalien District.	498	"	25	21	21	"
465	"	13	03	58	Taitung District.	499	"	26	08	36	Banda Sea, Boeroe Is.
466	"	13	03	34	Near Hwalien.	500	"	26	20	32	Fiji Islands.
467	"	15	01	28	Ditto.	501	"	27	06	33	Hwalien District.
468	"	15	04	08	Near Taipei.	502	"	27	07	12	"
469	"	15	10	37	25km. SW. of Alishan.	503	"	27	08	05	Near Hsinkong.
470	"	15	11	04	40km. E. of Tainan.	504	"	27	16	45	"
471	"	15	11	11	45km. SW. of Hwalien.	505	"	28	05	44	Near Hengchun.
472	"	16	03	01	Near Hsinkong.	506	"	28	06	03	Hengchun District.
473	"	16	08	13	Ditto.	507	"	28	09	18	Near Hsinkong.
474	"	16	14	23	"	508	"	28	09	35	"

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
509	May	28	11	23	52km. S. of Taipei.	543	June	08	07	07	Taitung District.
510	"	28	13	28	Northern Celebes.	544	"	08	10	28	Hwalien District.
511	"	28	13	35	60km. ENE. of Hengshan.	545	"	08	11	24	Tainan District.
512	"	29	09	56	Near Hinkong.	546	"	08	23	41	150km. E. of Hwalien.
513	"	29	15	00	Taitung District.	547	"	09	00	25	Near Hsinkong.
514	"	30	02	30	Near Hsinkong.	548	"	09	00	25	"
515	"	30	04	35	"	549	"	09	23	22	Northern afghanistan.
516	"	30	03	10	120km. E. of Hwalien.	550	"	10	22	41	Taitung District.
517	"	30	13	26	Near Taiwan.	551	"	11	05	00	Near Hwalien.
518	"	31	08	18	Near Alishan.	552	"	11	08	46	Taitung District.
519	"	31	13	23	60km. E. of Taitung.	553	"	11	09	30	Near Hwalien.
520	June	01	04	47	Taitung District.	554	"	11	09	50	49km. E. of Alishan.
521	"	01	21	00	Northern District.	555	"	11	13	45	50km. E. of Hwalien.
522	"	01	22	22	50km. SE. of Ilan.	556	"	12	02	23	Near Alishan.
523	"	01	23	42	Near Alishan.	557	"	12	03	42	Tainan District.
524	"	02	12	31	Near Hsinkong.	558	"	12	44	33	Taitung District.
525	"	02	15	58	Near Hwalien.	559	"	12	10	45	Northern District.
526	"	02	17	57	60km. N. of Tainan.	560	"	13	01	04	Near Hwalien.
527	"	02	21	33	Near Alishan.	561	"	13	01	23	Taitung District.
528	"	03	12	22	Northern District.	562	"	13	02	21	"
529	"	03	17	47	Hwalien District.	563	"	13	02	42	"
530	"	04	03	15	Near Hwalien.	564	"	13	05	45	Near Hsinkong.
531	"	04	03	49	Taitung District.	565	"	13	10	21	Taitung District.
532	"	04	05	45	"	566	"	13	12	12	"
533	"	04	06	19	"	567	"	14	08	58	Near Hsinkong.
534	"	06	03	16	Northern District.	568	"	14	14	05	Taitung District.
535	"	06	08	33	70km. SE. of Hsinkong.	569	"	14	17	59	Near Hsinkong.
536	"	07	04	09	Northern District.	570	"	14	20	26	Taitung District.
537	"	07	04	15	"	571	"	15	04	44	150km. ENE. of Hwalien.
538	"	07	08	18	90km. SE. of Ilan.	572	"	15	05	24	30km. NW. of Alishan.
539	"	07	12	58	Northern District.	573	"	15	05	48	50km. E. of Ilan.
540	"	07	13	41	"	574	"	15	06	40	Near Alishan.
541	"	07	17	51	Near Hsinkong.	575	"	16	06	22	Ryukyu Islands.
542	"	08	01	17	40km. E. of Ilan.	576	"	17	07	51	Taitung District.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
577	June	17	19	16	Northern District.	597	June	26	13	44	Near Hwalien
578	"	18	05	33	Near Hwalien.	598	"	26	13	46	"
579	"	19	12	13	Hwalien District.	599	"	27	17	58	Taitung District.
580	"	19	18	26	40km. NW. of Taichung.	600	"	27	19	09	60km. N. of Tainan.
581	"	19	18	41	Taichung District.	601	"	27	19	38	Taitung District.
582	"	20	07	45	Taichang District.	602	"	27	19	48	Near Hwalien.
583	"	20	12	11	100km. ENE. of Hwalien.	603	"	27	20	20	Tainan District.
584	"	20	12	50	Taitung District.	604	"	27	20	26	30km. NE. of Tainan.
585	"	21	06	59	Near Hwalien.	605	"	28	06	22	Near Hwalien.
586	"	21	13	50	30km. SW. of Taichang.	606	"	28	08	27	Taitung District.
587	"	21	19	53	Hwalien District.	607	"	28	17	41	"
588	"	22	03	03	Taitung District.	608	"	28	20	52	30km. NE. of Tainan.
589	"	22	05	15	Hwalien District.	609	"	29	02	37	100km. NE. of Ilan.
590	"	23	02	26	Near Kamchatka.	610	"	29	02	42	100km. ESE. of Ilan.
591	"	23	15	25	Near Hwalien.	611	"	29	03	30	Taitung District.
592	"	24	01	08	49km. N. of Hwalien.	612	"	29	05	20	"
593	"	24	02	21	"	613	"	29	14	50	100km. ESE. of Ilan.
594	"	24	21	07	Solomon Is.	614	"	29	20	51	Taitung District.
595	"	25	18	07	20km. NE of Hsinkong.	615	"	30	03	55	"
596	"	26	03	52	Northern District.						

Major Earthquakes Which Occurred in april, 1956.

No.	Station	Date	Phase	P. (G.M.T.)		Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
				h.	m.	N	E	Z	N	E	Z	N	E	Z				
1	Taipei	2	eP	10	54	47.5	u	u	u	u	u	u	s	s	s	7	10.5	2°N., 97° E off Coast of Sumantra
	Hengshan																	
	Taichung																	
	Tainan																	
2	Hwalien	5	eP	13	28	29.7	-	-	-	+ 64	- 89	- 45	2.4	2.1	2.4	10.2	I	120km. E. of Hwalien
	Ilan		P			30.1	-	-	-	+ 144	+ 163	- 74	1.6	1.8	1.7	13.3	O	24°N., 122.7°E.
	Taipei		P			37.7	-	-	-	126	140	-	1.2	1.4	-	16.0	O	h=60km. (s)
	Alishan		eP			41.3	-	-	-	-	-	-	-	-	-	20.1	O	
	Taichung		eP			41.3	-	-	-	-	-	-	-	-	-	21.3	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	s	m				s		
2	Hsinchu	5	eP	13 28 42.8	—	—	—	—	—	—	—	—	—	—	—	14.2	O				
	Tawu		eP	53.7	—	—	—	—	—	—	—	—	—	—	—	19.4	O				
	Hengchun		eP	59.4	—	—	—	—	—	—	—	—	—	—	—	24.8	O				
	Taitung		eP	29 11.5	—	—	—	—	—	—	—	—	—	—	—	20.8	O				
	Kaohsiung		eP	16.4	—	—	—	—	—	—	—	—	—	—	—	—	O				
3	Hsinkong	7	iP	04 44 06.6	—	—	—	500	522	76	2.8	2.8	0.7	—	—	08.0	II	75km. ESE. of Taitung			
	Taitung		P	0.84	—	—	—	—	—	—	—	—	—	—	—	12.4	O	22.8°N.			
	Tawu		P	11.6	—	—	—	—	—	—	—	—	—	—	—	13.3	O	121.8 E.			
	Hengchun		eP	17.7	—	—	—	—	—	—	—	—	—	—	—	18.7	O	h=10km.			
	Hwalien		P	18.6	—	—	—	—	—	—	—	—	—	—	—	16.4	O	(1)			
	Kaohsiung		P	23.8	—	—	—	—	—	—	—	—	—	—	—	17.1	O				
	Tainan		P	23.9	—	—	—	—	—	—	—	—	—	—	—	21.7	O				
	Yushan		eP	26.1	—	—	—	—	—	—	—	—	—	—	—	17.9	O				
	Alishan		iP	26.4	—	—	—	—	—	—	—	—	—	—	—	17.5	O				
	Taichung		P	26.7	—	—	—	—	—	—	—	—	—	—	—	23.3	O				
4	Hsinkong	8	eP	00 06 37.3	—	—	—	77	81	28	0.9	0.9	0.3	—	—	02.8	I	N. 23.3			
	Alishan		eP	50.0	—	—	—	—	—	—	—	—	—	—	—	—	O	E. 121.3			
	Taitung		eP	51.7	—	—	—	—	—	—	—	—	—	—	—	—	O	20km. NNW.			
	Hwalien		eP	58.0	—	—	—	—	—	—	—	—	—	—	—	—	11.0	O	of Hsinkong		
	Taichung		eP	07 01.2	—	—	—	—	—	—	—	—	—	—	—	—	—	O			
	5	Hsinkong	8	eP	19 45 43.7	—	—	—	78	85	47	1.2	1.2	0.7	—	—	05.4	I	234N.		
Hwalien			P	47.0	—	—	—	—	—	—	—	—	—	—	—	09.2	II	121.6E.			
Alishan			iP	49.6	—	—	—	—	—	—	—	—	—	—	—	09.7	O	60km. S. of Hwalien			
Tawu			eP	53.0	—	—	—	—	—	—	—	—	—	—	—	18.5	O	h=10km.			
Taitung			eP	53.2	—	—	—	—	—	—	—	—	—	—	—	12.2	O	(1)			
Taichung			iP	54.4	—	1.7	+ 1.7	—	9.6	—	—	—	—	—	—	16.1	O				
Hsinchu			eP	56.5	—	—	—	—	—	—	—	—	—	—	—	15.6	O				
Ilan			eP	59.0	—	—	—	—	—	—	—	—	—	—	—	15.7	O				
Taipei			P	46 00.1	—	—	—	—	—	—	—	—	—	—	—	22.8	O				
Tainan			P	00.3	—	—	—	—	—	—	—	—	—	—	—	14.7	O				
9	Penghu	19	eP	17 31 47.6	—	—	—	—	—	—	—	—	—	—	—	—	—	14.1	O	23.2 N.	
	Kaohsiung		P	32 00.0	—	—	—	—	—	—	—	—	—	—	—	—	—	10.6	O	120.5 E.	
	Alishan		P	01.1	—	—	—	—	—	—	—	—	—	—	—	—	—	06.4	O	38km. NE. of Tainan	
	Taitung		iP	04.9	—	—	—	—	—	—	—	—	—	—	—	—	—	12.0	O	(1)	
	Hsinkong		eP	05.7	—	—	—	—	—	—	—	—	—	—	—	—	—	11.2	O	h=10km.	
	Tainan		eP	07.0	—	—	—	—	—	—	—	—	—	—	—	—	—	07.1	I		
	Tawu		iP	07.6	—	—	—	—	—	—	—	—	—	—	—	—	—	12.1	O		
	Hwalien		P	15.6	—	—	—	—	—	—	—	—	—	—	—	—	—	16.5	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	N	E				Z												
6	Tawu	9	P	18 49 46.1	—	0.5	—	1.8	—	—	—	—	—	—	—	—	145	—	—	1.2	—	02.7	II	22.3 N.							
	Hengchun		P	52.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	121.1 E.							
	Taitung		eP	53.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18km. E. of Tawu							
	Alishan		eP	50 06.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	07.4	O						
	Kaohsiung		P	0.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	(1)						
	Hsinkong		P	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	h=5km.						
	Tainan		eP	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17.0	O					
7	Hwalien	10	eP	13 22 33.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	16.1	O	Near south Coast of Sumantra.			
	Tainan	17	P	07 19 04.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18.1	O	N. 22.7		
	Hsinchu		eP	17.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.4	O	E. 121.6		
	Taitung		P	43.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	04.8	O	48km. ESE. of Taitung.		
	Hsinkong		iP	45.0	—	29.1	+ 20.9	—	51.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	07.0	I	h=20km.		
	Tawu		P	48.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	09.0	O	(s)	
	Hengchun		eP	54.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13.1	O		
8	Alishan		P	56.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.4	O		
	Hwalien		P	56.0	—	+ 1.8	+ 3.0	—	51	—	59	—	69	1.0	1.0	2.2	—	—	—	—	—	—	—	—	—	—	—	15.8	I		
	Yushan		P	56.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.3	O		
	Kaohsiung		P	20 00.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.8	O	
	Taichung		P	04.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22.1	O	
	Ilan		eP	08.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.3	O	
	Taipei		eP	10.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	29.5	O	

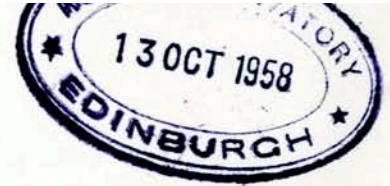
No.	Station	Date	Phase	P. (G.M.T.)	Initial Motion			Maximum Amplitude			Period			P~S	Intensity	Epicenter & Remarks	
					N	E	Z	N	E	Z	N	E	Z				
6	Yushan	23	P	20 59 05.0	u	u	u	u	u	u	s	s	s	m	s		
	Alishan		P	05.2										-08	43.5	0	
	Taipei		iP	06.0										-08	41.8	0	
	Taichung		eP	06.5										-08	42.3	0	
	Penghu		P	06.8 + 9.1 - 10.0										-08	35.6	0	
	Kaohsiung		P	07.4												0	
	Tainan		eP	08.2										-08	38.9	0	
	Hsinchu		eP	08.7												0	
7	Hengchun	26	eP	08 36 02.7										-04	30.0	0	4°S. 126°E. Boeroe Is. Banola Sea.
8	Hsinkong	26	eP	20 31 51.4										8	35.8	0	19°S. 178°W. Fiji Is. after Shoek
	Hengchun		eP	51.8										8	31.0	0	
	Hwalien		P	56.0										8	33.4	0	
	Taipei		P	56.3 + 3.0 - 2.6										8	40.2	0	
	Ilan		P	32 01.0										8	35.8	0	
9	Hengchun	28	P	13 28 07.6										3	55.5	0	1°N. 121 1/2°E. Northern Celebes R=100km.
	Ilan		eP	10.9													
	Hsinkong		eP	15.5													
	Tainan		eP	17.3													
	Taichung		eP	27.1													
	Hwalien		P	27.5													
	Taipei		eP	31.7													
	Taitung		P	35.8													
10	Hwalien	30	P	08 09 45.0				+77	-66		1.9	2.3		12.7	0	120km. E. of Hwalien, h=60km. (unfelt)	
	Ilan		P	47.0										13.3	0		
	Hsinkong		eP	49.6										16.6	0		
	Taipei		P	53.0										18.4	0		
	Alishan		eP	55.8										20.7	0		
	Yushan		eP	56.0										20.3	0		
	Taitung		eP	57.3										19.7	0		
	Taichung		eP	58.6										23.2	0		
	Tainan		eP	10 09.2												0	
	Hengchun		eP	09.6											26.7	0	
	Hsinchu		eP	20.5											20.3	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						
11	Hwalien	31	P	09 05 11.7	u	u	u	u	u	u	s	s	s	m	s	28km. SE. of Hwalien			
	Yushan		eP	14.1											10.5	0	k=40km. (l)		
	Alishan		eP	14.5											10.7	0			
	Ilan		eP	17.9												0			
	Hsinkong		eP	18.9												0			
	Kaohsiung		P	21.8												12.7	0		
	Taipei		eP	23.7												15.4	0		
	Hsinchu		P	25.0													0		
	Tainan		eP	37.9													0		
	Taitung		eP	41.5													13.2	0	
	Kaohsiung		P	58.7														0	

Major Earthquakes Which Occurred in June, 1956.

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	Taichung	9	eP	23 22 26.7	u	u	u	u	u	u	s	s	s	m	s	35°N. 68°E. Afghanistan (d)	
	Taipei		iP	27.5 - 2.0 + 7.0 + 3.3				200	500	800	14.0	16.0	19.0	6	54.2	0	
	Alishan		eP	29.8										6	58.9	0	
	Tainan		P	30.2 - + +										6	49.3	0	
	Kaohsiung		P	31.3												0	
	Hwalien		iP	31.4 - 2.5 + 4.5 - 2.5 - 5.6 - 50 - 55				19.0	24.0	25.0	6	55.2	0				
	Ilan		P	31.5										7	11.7	0	
	Tawu		eP	34.2										7	00.8	0	
2	Hengchun		iP	34.9 + 7.4 - 5.3 + 2.0				86			16.8		6	59.6	0		
	Taitung		P	36.3									7	01.8	0		
	Hsinkong		eP	37.7									7	00.2	0		
	Taipei	16	eP	06 21 54.0										4		0	Near Ryukyu Islands.
3	Taichung		eP	22 21.6												0	
	Tainan		eP													0	
3	Taipei	23	eP	02 26 04.7				40	50	25	29.0	29.0	20.0			0	51 1/2°N. 163 1/2°E.
	Hsinkong		eP	23.2												0	Near east Kamchatka.

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	s	m			s
3	Hualien	23	eP	02	26	25.3	-	-	-	-	-	-	-	-	-	-	9	48.4	O	(d)
	Hengchun		eP			33.0	-	-	-	-	-	-	-	-	-	-			O	
	Tainan		eP				-	-	-	-	-	-	-	-	-	-			O	
	Taielmng		eP				-	-	-	-	-	-	-	-	-	-			O	
4	Hualien	24	eP	21	06	57.5	-	-	-	-	-	-	-	-	-	-	6	33.4	O	Solomom Island.
5	Alishan	27	iP	18	57	45.3	- 53.6	- 36.3	+ 147.9	1300	1075	-	1.7	2.1	-	-	07.0	III	23.2 N. 120.4 E. 40km. NE. of Tainan (m)	
	Tainan		iP			45.8	+ 92.1	+ 82.4	+ 191.0	-	2700	1250	-	3.0	2.5	-	07.0	III		
	Yushan		P			46.2	-	-	-	-	-	-	-	-	-	-	07.8	III		
	Kaohsiung		P			52.1	-	-	-	500	555	-	3.5	3.0	-	-	09.5	II		
	Penghu		P			52.3	- 25.0	+ 17.5	-	795	+ 730	-	0.6	0.5	-	-	12.3	O		
	Hengchun		iP			52.5	+ 10.0	- 83.3	- 11.8	267	289	194	2.2	2.2	1.2	-	12.2	II		
	Taitung		P			53.0	-	-	-	-	-	-	-	-	-	-	12.6	O		
	Taichung		iP			54.8	+ 14.0	+ 7.0	+ 30.0	323	189	166	2.2	1.8	2.4	-	14.3	O		
	Hualien		P	58	02.0	- 2.2	- 9.0	- 16.9	- 511	-	-	-	1.7	-	-	-	18.2	O		
	Tawu		iP			07.6	-	-	-	-	-	-	-	-	-	-	14.4	I		
	Hsinchu		P			04.6	-	-	-	-	-	-	-	-	-	-	22.2	O		
	Ilan		iP			10.6	+ 13.0	+ 10.0	+ 1.3	+ 39	- 39	+ 24	2.1	2.0	1.5	-	27.4	I		
Taipei		iP			10.6	+ 2.0	+ 1.0	+ 7.0	230	300	100	2.2	2.0	2.5	-	27.0	O			
Hengchun		P			19.4	-	-	-	301	265	-	1.7	1.7	-	-	18.4	O			
6	Hualien	29	iP	02	22	10.5	- 0.6	- 3.8	- 26.9	+2000	-2000	600	-	-	-	-	06.9	II	23.9° N. 122.2° E. 60km. E. of Hualien (m) h _c = 20km.	
	Ilan		iP			12.0	- 22.	+ 22.0	- 4.9	+1100	-1615	-	1.0	1.0	-	-	11.9	II		
	Hsinkong		iP			16.9	+ 7.8	+ 13.3	- 20.9	139	203	90	2.9	2.9	1.9	-	14.6	II		
	Taipei		iP			19.2	+ 60	- 34	+ 10.0	800	1300	500	2.5	2.2	3.0	-	19.7	II		
	Taichung		iP			22.8	+ 4.0	15	+ 41	545	569	288	4.1	3.2	3.6	-	19.2	I		
	Yushan		eP			23.0	-	-	-	175	358	-	6.9	2.3	-	-	15.7	II		
	Hsinchu		P			28.2	-	-	-	650	-1320	- 700	2.2	2.7	1.7	-	19.5	O		
	Taitung		P			23.6	-	-	-	-	-	-	-	-	-	-	18.6	II		
	Alishan		eP			23.4	-	-	-	407	390	335	2.1	2.5	2.0	-	16.1	O		
	Tainan		iP			55.4	-	-	-	179	209	122	4.1	4.1	3.1	-	26.9	O		
	Tawu		P			36.1	-	-	-	-	-	-	-	-	-	-	24.4	O		
	Penghu		P			40.0	-	-	-	-	-	-	-	-	-	-	30.7	O		
	Kaohsiung		P			40.8	-	-	-	-	-	-	-	-	-	-	27.8	O		
Hengchun		eP			41.7	-	-	-	-	-	-	-	-	-	-	32.1	O			



地震季報

第三卷 第三號

中華民國四十五年七、八、九月

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GENERAL ASPECT OF EARTHQUAKES

July to September 1956.

In July, the number of occurrence of earthquakes was amounted up to a figure of one hundred nineteen, and has an increase in comparison to the month of June. Among them, three were classified as local felt earthquakes and the remains were unfelt ones.

Among three felt earthquakes, two were occurred near Hwalien and one was occurred near Hsinkong.

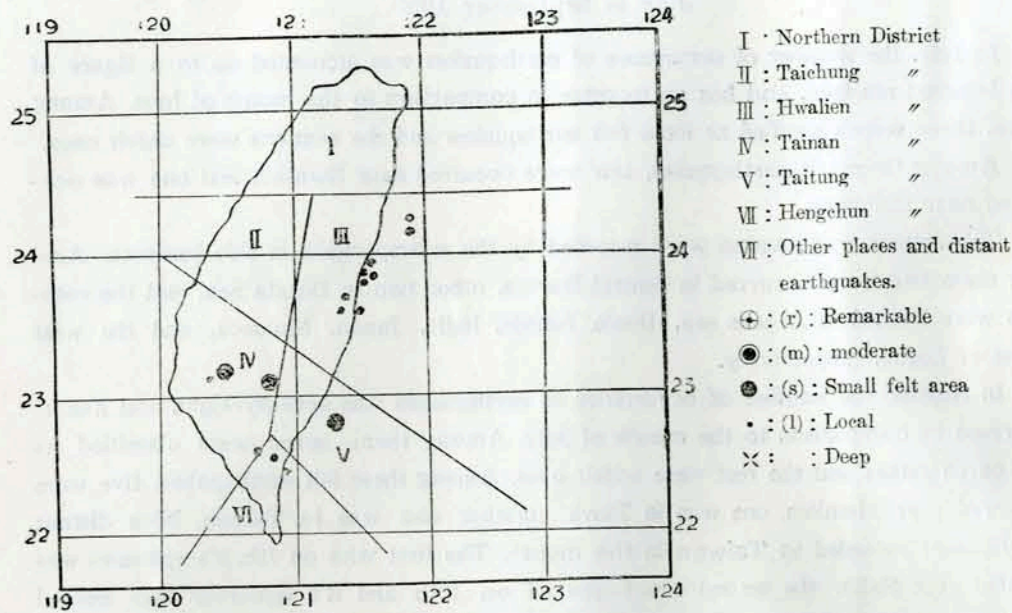
Ten distant earthquakes were recorded by the seismographs in this Institute. Among them two were occurred in central Burma, other two in Banda Sea, and the remains were located in Aegean sea, Bonin Islands, India, Japan, Molucca, and the west coast of Luzon, respectively.

In August, the number of occurrence of earthquakes was seventy-eight, and has a decrease in comparison to the month of July. Among them, seven were classified as felt earthquakes and the rest were unfelt ones. Among these felt earthquakes, five were occurred near Hwalien, one was in Tawu, another one was in Tainan, Nine distant earthquakes recorded at Taiwan in this month. The first was on 7th, it's epicenter was located near Naha, the second was happened on 13th and it's epicenter was located near south coast of Japan, the fourth and fifth were occurred in Northern Celebes on 15th, the sixth was happened near Aleutian islands on 24th, and the remains were on 27th and 29th, but it's epicenters were unknown.

In September, fifty-nine earthquakes were recorded, six of them were classified as felt earthquakes and the remains were unfelt ones, These earthquakes are felt ones. in this month; among them three were classified as small area earthquakes and the other three were classified as local earthquakes. Among these felt earthquakes, two were occurred near Hwalien, and the rest four were occurred near Tawu, Tainan, Taitung, Hsinkong region respectively.

Four distant earthquakes were recorded at Taiwan. The first was occurred on 16th it's epicenter was reported at Afghanistan, Another was happened on 29th, but it's epicenter was unknown. Third and fourth were occurred in Japan on 30th.

Epicenters of Felt Earthquakes in July to September, 1956



Number of earthquakes classified according to its magnitude and districts July to September, 1956.

Districts	Classification magnitudes	Number of felt earthquakes				Number of unfelt earthquakes	Total
		Remarkable	moderate	Small felt area	Local		
Northern District		—	—	—	—	27	27
Taichung "		—	—	—	—	8	8
Hwalien "		—	—	—	9	9	67
Tainan "		—	—	2	2	4	11
Taitung "		—	—	1	—	1	91
Hengchun "		—	—	—	2	2	11
Other places "		—	—	—	—	25	25
Total		—	—	3	13	16	240

Felt earthquakes in the month of July to September, 1956.

No.	Month	P. (G. M. T.)			Magnitude	Epicenter	Latitude	Longitude	Depth.
		d.	h.	m.					
58	July	11	07	43	1				
59	"	12	00	12	1	23.7°	121.7°	10	
60	"	30	13	56	1	23.8°	121 1/2	5	
61	Aug.	02	22	00	1				
62	"	03	04	14	1				
63	"	07	20	55	1				10
64	"	10	13	05	1				
65	"	12	01	55	1				
66	"	12	11	55	1				10
67	"	15	05	10	1				20
68	Sept.	02	13	39	1	22.6	120.7	20	
69	"	03	14	57	s	23.2	120.5	0	
70	"	15	19	27	s	22.7	121.4	0	
71	"	25	00	03	s	23.2	120.8	0	
72	"	25	07	43	1	23.7	121.4	0	
73	"	26	00	16	1	24.3	122.0	0	

Unfelt Earthquakes in the month of July to September, 1956.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
615	June	30	16	30	Near Hsinkong.	627	July	02	00	58	Taitung District.
616	"	30	20	43	40km. S. of Hwalien.	628	"	02	17	34	Near Hwalien.
617	July	01	01	55	Near Hsinkong.	629	"	03	19	56	Taitung District.
618	"	01	05	30	Northern District.	630	"	04	00	50	Hwalien District.
619	"	01	11	50	Near. NE. of Tawu.	631	"	04	03	47	"
620	"	01	15	43	Near. S. of Hwalien.	632	"	04	19	33	"
621	"	01	15	47	Near Hsinkong.	633	"	04	19	48	Hengchun District.
622	"	01	17	13	"	634	"	05	00	51	Hwalien District.
623	"	01	17	21	Northern District.	635	"	05	04	02	Taitung District.
624	"	01	21	58	Hwalien District.	636	"	05	06	56	Near Hwalien.
625	"	01	23	57	Hengchun District.	637	"	05	10	06	About. 27km. E. of Taitung.
626	"	02	00	52	Near Hsinkong.	638	"	05	10	49	Near Hwalien.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
639	July	05	22	28	Tainan District.	673	July	17	05	25	Near Hsinkong.
640	"	06	00	25	Near Hwalien.	674	"	17	06	26	Near Hwalien.
641	"	06	07	19	"	675	"	17	07	29	Banda Sea. 7°S. 126°E.
642	"	06	17	00	Near Tainan.	676	"	17	11	17	Hwalien District.
643	"	06	17	24	Near Hsinkong.	677	"	17	15	50	Near Hsinkong.
644	"	07	05	12	Hwalien District.	678	"	18	00	35	Hwalien District.
645	"	07	10	42	Near Hsinkong.	679	"	18	05	11	Northern District.
646	"	08	08	16	"	680	"	18	16	25	5°S. 130°E. Banda Sea.
647	"	09	03	23	Aegean. Sea.	681	"	18	17	16	Near Hsinkong.
648	"	09	16	55	Near Hsinkong.	682	"	18	19	32	Northern District.
649	"	10	09	24	67km. ESE. of Hwalien.	683	"	18	21	14	Near Hsinkong.
650	"	10	13	29	"	684	"	19	07	06	"
651	"	10	16	50	125km. ESE. of Ilan.	685	"	19	20	43	15°N. 120½°E. Near West Coast of Lugon.
652	"	10	17	31	About 3½km. SE. Tainan.	686	"	19	21	55	50km. NW. of Hwalien
653	"	11	07	40	Near Hsinkong.	687	"	19	23	41	Hwalien District.
654	"	11	10	04	100km. E. of Ilan.	688	"	20	09	18	Near Hsinkong.
655	"	11	11	05	Taichung District.	689	"	20	11	47	22.8°N. 126°E.
656	"	11	15	08	About 100km. NE of Ilan.	690	"	20	17	37	Hwalien District.
657	"	11	15	12	Hwalien District.	691	"	21	07	26	Northern District.
658	"	11	20	09	Near Hsinkong.	692	"	21	10	31	Near Hsinkong.
659	"	11	20	45	Nwalien District.	693	"	21	15	21	Hwalien District.
660	"	12	03	07	About 115km. ENE of Hwalien.	694	"	21	15	41	23°N. 70°E.
661	"	12	14	06	Near Hsinkong.	695	"	21	23	43	Hwalien District.
662	"	12	15	06	Central Burma.	696	"	22	04	20	Near Hsinkong.
663	"	13	12	44	50km. SSW of Hwalien.	697	"	22	08	19	"
664	"	13	13	05	Near Hsinkong.	698	"	22	16	57	"
665	"	14	22	06	20½°N. 121½°E.	699	"	22	23	28	"
666	"	15	07	44	Hwalien District.	700	"	23	14	42	Near Hwalien.
667	"	15	11	36	Near Hsinkong.	701	"	23	21	46	37km. ESE. of Taichung.
668	"	15	12	55	Bonin Is. region.	702	"	23	21	54	Near Hsinkong.
669	"	10	06	35	60km. ENE. of Tainan.	703	"	24	03	26	Northern District.
670	"	16	11	52	100km. E. of Hwalien.	704	"	24	13	03	30½°N. 139°E. Japan.
671	"	16	15	12	23½°E. 66°E. Burma.	705	"	24	13	06	Hwalien District.
672	"	17	02	20	Hwalien District.	706	"	24	19	01	1°N. 126½°E. moluecas Passage.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	g.	m.			d.	h.	m.		
707	July	24	19	03	Taitung District.	741	Aug.	05	20	45	Near Hsinkong.
708	"	26	05	42	Hengchun District.	742	"	06	07	21	180km. S. of Hengchun.
709	"	26	10	02	Near Hsinkong.	743	"	06	07	59	Near Hwalien.
710	"	26	13	27	"	744	"	06	16	36	Near Hsinkong.
711	"	26	17	42	Near Ilan.	745	"	06	17	43	Near WNW. of Naha. Is.
712	"	26	22	39	Near Hsinkong.	746	"	07	06	48	103km. SE. of Ilan.
713	"	26	22	57	"	747	"	07	11	55	Near Taipei.
714	"	27	04	29	Hwalien District.	748	"	07	18	27	Near Hsinkong.
715	"	27	04	58	Northern District.	749	"	07	20	32	"
716	"	27	13	26	Taitung District.	750	"	07	20	38	"
717	"	27	17	03	Near Hsinkong.	751	"	08	06	25	"
718	"	28	01	18	Hwalien District.	752	"	09	03	45	"
719	"	29	09	28	73km. ESE of Hwalien.	753	"	29	20	40	24km. SE. of Tawu
720	"	29	11	53	Near Hsinkong.	754	"	09	22	30	Near Hwalien.
721	"	29	16	47	Taichung District.	755	"	09	23	11	Southern Afghanistan.
722	"	29	23	27	Near Hsinkong.	756	"	10	19	55	Northern District.
723	"	30	03	22	"	757	"	10	21	54	Near Hsinkong.
724	"	30	09	03	"	758	"	11	08	09	Taitung Distrite.
725	"	30	19	21	70km. W. of Taipei.	759	"	11	21	28	Near Hsinkong.
726	"	30	10	30	45km. S. of Hwalien.	760	"	12	17	03	Near South Coast of Honsiu, Japan.
727	"	30	11	26	"	761	"	12	19	13	35km. W. of Ilan.
728	"	30	14	44	21.7°N. 125°E.	762	"	13	01	21	Near Hsinkong.
729	"	31	02	59	Near Hsinkong.	763	"	14	21	17	Near Alishan.
730	"	31	12	30	"	764	"	15	01	11	"
731	Aug.	01	12	15	Near Alishan.	765	"	15	01	40	Hengchun District.
732	"	02	01	39	Near Hsinkong.	766	"	15	10	56	Northern Celebes.
733	"	02	03	55	Near Alishan.	767	"	15	11	37	Near Hsinkong.
734	"	03	05	18	Near. Hwalien.	768	"	15	13	18	Kurile Islands.
735	"	03	06	13	"	769	"	16	00	56	Near Hsinkong.
736	"	04	17	03	Northern District.	770	"	17	02	48	33km. E. of Hengchun.
737	"	04	18	18	80km. SE. of Hwalien.	771	"	17	14	51	Near Hsinkong.
738	"	04	19	52	Near Hwalien.	772	"	17	15	36	24km. SE. of Alishan.
739	"	04	13	17	Near Hsinkong.	773	"	18	00	33	Near Hsinkong.
740	"	04	15	35	50km. NNW. of Taipei.	774	"	18	08	50	"

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	12	eP	05.0	u	u	u	u	u	u	s	s	s	m	s	15.1 O	
	Taielung		eP	05.5	—	—	—	—	—	—	—	—	—	—	—	14.3 O	
	Hsingchu		P	11.3	—	—	—	—	—	—	—	—	—	—	—	13.0 O	
	Taitung		eP	13.7	—	—	—	—	—	—	—	—	—	—	—	14.5 O	
	Taipei		eP	13.9	—	—	—	—	—	—	—	—	—	—	—	19.0 O	
4	Tainan	12	eP	15 06 50.2	—	—	—	—	—	—	—	—	—	—	—	—	23N. 94E. Central Burma.
	Hwalien		eP	55.1	—	—	—	—	—	—	—	—	—	—	—	—	
	Taielung		eP	07 05.6	—	—	—	—	—	—	—	—	—	—	—	—	
	Ilan		eP	07 06.0	—	—	—	—	—	—	—	—	—	—	—	—	
	Taipei		eP	11.4	—	—	—	—	—	—	—	—	—	—	—	—	
5	Hengchun	14	eP	22 06 25.4	—	—	—	161	—	—	2.5	—	—	—	—	25.4 O	E. 121 $\frac{1}{2}$ N. 20 $\frac{1}{2}$ 220km. SE of Hengchun
	Tawu		eP	28.3	—	—	—	—	—	—	—	—	—	—	—	32.5 O	
	Taitung		P	34.0	—	—	—	—	—	—	—	—	—	—	—	39.0 O	
	Hsinkong		eP	37.5	—	—	—	—	—	—	—	—	—	—	—	36.7 O	
	Tainan		P	41.3	—	—	—	—	—	—	—	—	—	—	—	40.0 O	
	Yushan		eP	48.0	—	—	—	—	—	—	—	—	—	—	—	42.0 O	
	Alishan		P	48.1	—	—	—	83	100	—	2.7	3.2	—	—	—	42.0 O	
	Hwalien		P	51.4	—	—	—	—	—	—	—	—	—	—	—	44.2 O	
	Taichung		eP	58.8	—	—	—	—	—	—	—	—	—	—	—	53.8 O	
	Ilan		eP	07 00.1	—	—	—	40	50	—	2.9	2.3	—	—	—	56.7 O	
	Taipei		eP	07.0	—	—	—	—	—	—	—	—	—	—	—	59.3 O	
6	Hwalien	15	P	12 55 53.2	—	—	—	—	—	—	—	—	—	—	—	2 46.0 O	28°N. 139°E. Bonin Is. Region.
7	Taichung	16	eP	15 12 06.8	—	—	—	1172	889	820	7.5	7.5	7.0	4	24.5 O	23N. 96E. Central Burma.	
	Tainan		P	15.9	—	—	—	—	—	—	—	—	—	—	—	4 01.0 O	
	Hengchun		P	22.1	—	—	—	100	101	—	2.9	7.7	—	4	04.0 O		
	Hsinkong		eP	22.1	—	—	—	455	523	—	2.5	8.7	—	4	23.9 O		
	Taipei		eP	23.5	—	—	—	—	—	—	—	—	—	4	22.3 O		
	Hsingchu		eP	23.9	—	—	—	—	—	—	—	—	—	4	35.4 O		
	Alishan		eP	24.7	—	—	—	—	—	—	—	—	—	4	08.7 O		
	Hwalien		P	25.0	—	—	—	190	240	100	8.0	8.0	8.0	4	19.5 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				
8	Hengchun	17	eP	07 39 36.2	—	—	—	—	—	—	—	—	—	—	4 20.1 O	7°S. 126°E. Banda Sea.	
	Hsinkong		eP	44.0	—	—	—	—	—	—	—	—	—	—	4 21.4 O		
	Alishan		P	49.0	—	—	—	—	—	—	—	—	—	—	4 28.9 O		
	Hwalien		P	50.3	—	—	—	—	—	—	—	—	—	—	4 33.1 O		
	Taichung		P	54.9	—	—	—	—	—	—	—	—	—	—	4 29.9 O		
	Taipei		P	40 01.2	—	—	—	—	—	—	—	—	—	—	4 31.8 O		
	Ilan		eP	03.1	—	—	—	—	—	—	—	—	—	—	4 30.5 O		
9	Hengchun	18	P	06 25 15.7	—	—	—	—	—	—	—	—	—	—	4 53.8 O	5°S. 130°E. Banda sea.	
	Tainan		P	17.2	—	—	—	—	—	—	—	—	—	—	4 53.1 O		
	Hsinkong		P	26.7	—	—	—	—	—	—	—	—	—	—	4 36.8 O		
	Tawu		P	26.8	—	—	—	—	—	—	—	—	—	—	4 20.9 O		
	Hwalien		P	30.9	—	—	—	—	—	—	—	—	—	—	4 41.6 O		
	Taichung		eP	35.1	—	—	—	—	—	—	—	—	—	—	4 42.1 O		
	Ilan		eP	39.0	—	—	—	—	—	—	—	—	—	—	4 53.8 O		
	Taipei		eP	40.8	—	—	—	—	—	—	—	—	—	—	4 56.8 O		
10	Tainan	19	eP	20 43 14.1	—	—	—	—	—	—	—	—	—	—	—	—	15°N. 120°E. near West Coast of Luzon, Philippines
	Hwalien		eP	14.3	—	—	—	—	—	—	—	—	—	—	1 43.2 O		
	Taichung		eP	15.8	—	—	—	—	—	—	—	—	—	—	—	—	
	Alishan		eP	24.0	—	—	—	—	—	—	—	—	—	—	1 35.7 O		
	Taipei		eP	32.5	—	—	—	—	—	—	—	—	—	—	1 47.0 O		
11	Taipei	24	eP	13 03 39.6	—	—	—	—	—	—	—	—	—	—	2 42.0 O	30 $\frac{1}{2}$ °N. 139°E. South Coast of Honshu. Japan.	
	Hsinkong		eP	04 06.4	—	—	—	—	—	—	—	—	—	—	2 50.0 O		
12	Hwalien	30	P	13 56 41.5	—	—	—	+ 71	- 106	+ 229	1.7	1.1	—	—	05.2 I	3.8°N. 12 $\frac{1}{2}$ °E. 20km. SSW. of Hwalien. (1) h=5.	
	Hsinkong		eP	47.9	—	—	—	—	—	—	—	—	—	—	10.0 O		
	Taichung		eP	32.9	—	—	—	—	—	—	—	—	—	—	11.8 O		
	Ilan		P	56.4	—	—	—	—	—	—	—	—	—	—	11.1 O		
	Taipei		P	57 05.9	—	—	—	—	—	—	—	—	—	—	18.1 O		
13	Hsinkong	30	P	14 44 42.8	—	—	—	—	—	—	—	—	—	—	47.3 O	400km. ESE. of Taitung	
	Taitung		P	52.0	—	—	—	—	—	—	—	—	—	—	—	—	21.7°N. 125°E. (unfelt)
	Hwalien		P	45 06.9	—	—	—	—	—	—	—	—	—	—	49.1 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			
13	Tainan	30	eP	22.3	u	u	u	u	u	u	s	s	s	m	s	
	Taichung		eP	54.9	-	-	-	-	-	-	-	-	-	-	-	0
	Ilan		P	46 11.0	-	-	-	-	-	-	-	-	-	-	-	0
	Taipei		eP	19.6	-	-	-	-	-	-	-	-	-	-	59.3	0

Major Earthquakes which Occurred in August, 1956.

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	3	P	04 14 58.0	-	-	+ 31.7	-	-	-	-	-	-	01.0	III	Near Hwalien. (1)
	Hsinkong		eP	15 15.8	-	-	-	-	-	-	-	-	-	10.4	O	
	Taipei			26.2	-	-	-	-	-	-	-	-	-	-	O	
2	Ilan	6	eP	07 21 55.7	-	-	-	-	-	-	-	-	-	57.9	O	About 180km. S. of Hengchun.
	Taipei		P	22 04.7	-	-	-	-	-	-	-	-	-	60.8	O	
	Hwalien		P	04.8	-	-	-	-	-	-	-	-	-	46.2	O	
3	Hwalien	6	P	17 23 20.6	-	-	-	-	-	-	-	-	-	-	O	Near WNW. Coast of Naha Is.
	Ilan		eP	24 15.0	-	-	-	-	-	-	-	-	-	1 02.1	O	
	Taichung		eP	16.7	-	-	-	-	-	-	-	-	-	1 05.0	O	
	Taipei		eP	18.1	-	-	-	-	-	-	-	-	-	-	O	
	Hsingchu			27.0	-	-	-	-	-	-	-	-	-	-	O	
	Hsinkong			27.2	-	-	-	-	-	-	-	-	-	-	O	
4	Tawu	7	P	20 55 07.2	-	-	-	-	-	-	-	-	-	02.4	II	About 17km. N. of Tawu. (1) h=10km.
	Hengchun		eP	25.8	-	-	-	-	-	-	-	-	-	03.0	O	
	Alishan		eP	16.0	-	-	-	-	-	-	-	-	-	16.7	O	
5	Hsinkong	09	P	23 11 51.4	-	-	-	-	-	-	-	-	-	-	O	Southern Afghanistan.
	Ilan		eP	53.0	-	-	-	-	-	-	-	-	-	-	O	
	Hwalien		eP	53.2	-	-	-	-	-	-	-	-	-	9 10.4	O	
	Taipei		P	56.4	-	-	-	-	-	-	-	-	-	9 10.6	O	
6	Alishan	12	iP	11 55 16.1	-	6.2	-	2.5	-	7.4	121	81	-	07.5	I	About 23km. ENE. of Tainan h=10 km.
	Tainan		P	57.5	+	-	+	-	-	-	-	-	-	04.1	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				
6	Hsinkong	12	iP	56 03.3	+	-	6.8	-	-	-	-	-	-	-	-	(1)	
	Tawu		P	04.6	-	-	-	-	-	-	-	-	-	-	-		11.5
	Taitung		P	05.2	-	-	-	-	-	-	-	-	-	-	-		12.5
	Penghu		P	05.8	-	-	-	-	-	-	-	-	-	-	-		14.2
	Taichung		eP	07.6	-	-	-	-	-	-	-	-	-	-	-		12.7
	Hwalien		P	09.9	-	-	-	-	-	-	-	-	-	-	-		20.1
	Ilan		eP	19.6	-	-	-	-	-	-	-	-	-	-	-		22.6
	Taipei		P	30.1	-	-	-	-	-	-	-	-	-	-	-		27.3
7	Alishan	12	eP	17 03 17.7	-	-	-	-	-	-	-	-	-	-	3 55.7	Near South Coast of Honshu, Japan.	
	Ilan		eP	40.5	+	-	+	-	-	-	-	-	-	-	4 56.3		
	Taipei		P	45.2	+	-	+	-	-	-	-	-	-	-	3 21.9		
	Hsinkong		eP	58.3	-	-	-	-	-	-	-	-	-	-	3 43.4		
	Hwalien		P	59.3	-	-	-	-	-	-	-	-	-	-	3 43.2		
	Tawu		P	04 15.3	-	-	-	-	-	-	-	-	-	-	3 48.1		
Hengchun		P	05 13.5	-	-	-	-	-	-	-	-	-	-	3 49.8			
8	Ilan	15	eP	05 10 50.3	-	-	-	+	59	-	59	-	2.1	2.0	-	08.8	About 37km. ENE of Hwalien. 24.1 N. 121.9 E. (1) h=20km.
	Alishan		eP	55.6	-	-	-	-	-	-	-	-	-	-	-	11.8	
	Hsinkong		eP	56.9	-	-	-	-	-	-	-	-	-	-	-	13.9	
	Taichung		P	58.0	-	-	-	-	-	-	-	-	-	-	-	14.5	
	Hsingchu		eP	11 00.1	-	-	-	-	-	-	-	-	-	-	-	13.7	
	Taipei		P	00.3	-	-	-	-	-	-	-	-	-	-	-	13.6	
	Hwalien		iP	? - 10.0	-	6.6	+ 5169	-	-	-	-	-	-	-	-	04.9	
9	Hengchun	15	P	10 56 11.8	-	-	-	-	-	-	-	-	-	-	3 58.3	Northern Celebes. 1/2 S. 123E. (d)	
	Tawu		P	12.3	-	-	-	22	31	51	5.2	5.5	3.6	4 00.5			
	Hsinkong		eP	17.5	-	-	-	-	-	-	-	-	-	-	4 03.6		
	Tainan		eP	21.9	-	-	-	-	-	-	-	-	-	-	4 08.0		
	Taipei		eP	37.5	-	-	-	-	-	-	-	-	-	-	4 24.3		
	Ilan		eP	29.8	-	-	-	-	-	-	-	-	-	-	4 22.8		
Hwalien		eP	?	-	-	-	-	-	-	-	-	-	-	4 09.0			
10	Taipei	15	eP	13 18 56.9	-	-	-	-	-	-	-	-	-	-	06 22.0	Kurile Is.	

地震季報

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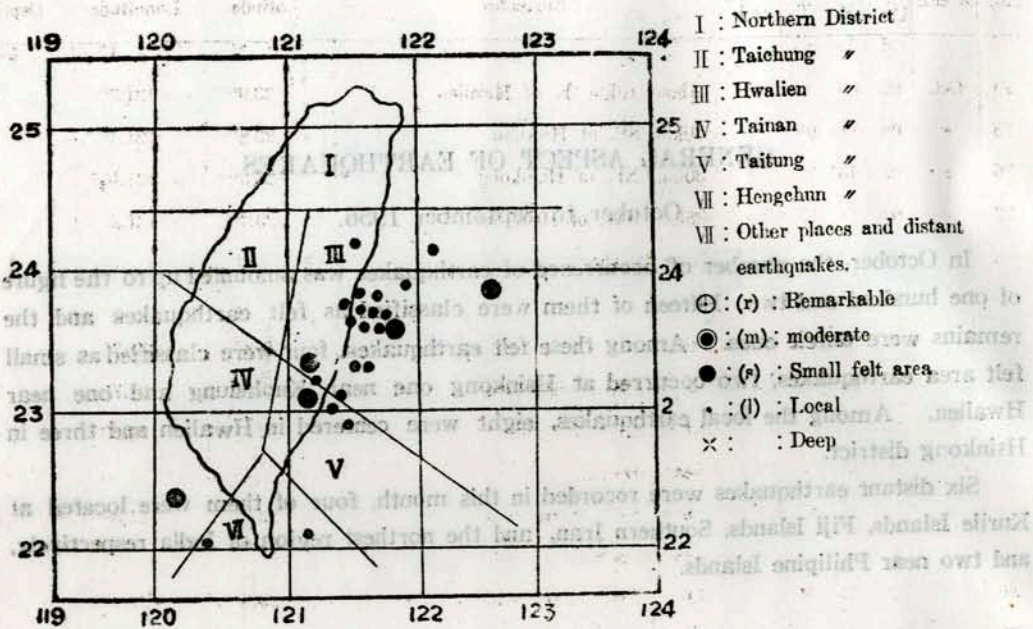
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TAIWAN WEATHER BUREAU
61, Kuang-Fu Road, Taipei, Taiwan
China

Epicenters of Felt Earthquakes in October to December, 1956



In November, the number of occurrences of earthquakes was only sixty, among them four were classified as local felt earthquakes and the rest were unfelt ones. Among these local earthquakes, six were recorded in the north, four in the south, and two near Philippine Islands.

Number of earthquakes classified according to its magnitude and districts October to December 1956.

Classification	Number of felt earthquakes					Number of unfelt earthquakes	Total
	magnitudes	Remarkable	moderate	Small felt area	Local			Total
Disticts							
Northern District	—	—	—	—	—	33	33
Taichung "	—	—	—	—	—	4	4
Hualien "	—	—	—	—	14	73	91
Tainan "	—	—	—	1	—	10	11
Taitung "	—	—	—	1	3	4	91
Hengchun "	—	—	—	—	2	2	14
Other places "	—	—	—	—	—	10	10
Total	—	—	—	6	19	229	254

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
861	Oct.	03	08	41	Northern district.	895	Oct.	11	02	31	Kurile Is. (distant)
862	"	03	08	48	"	896	"	11	06	39	Near Hsinkong.
863	"	03	09	43	"	897	"	11	13	38	90km. E. of Hwalien.
864	"	03	10	17	"	898	"	12	03	59	Near Hwalien.
865	"	04	02	06	Hwalien district.	899	"	12	07	39	Taitung district.
866	"	04	02	33	Near Hwalien.	900	"	14	01	46	Near Hwalien.
867	"	04	04	21	Northern District.	901	"	15	22	44	Near Hsinkong.
868	"	04	04	32	"	902	"	16	04	28	"
869	"	04	04	59	"	903	"	16	09	47	"
870	"	04	15	33	"	904	"	16	13	15	"
871	"	04	19	51	Hwalien district.	905	"	16	13	56	"
872	"	04	22	01	Near Hsinkong.	906	"	17	00	07	Near Hwalien.
873	"	05	00	06	100km. E. of Hwalien.	907	"	17	06	39	Near Hsinkong.
874	"	06	00	37	Near Hsinkong.	908	"	18	20	45	"
875	"	06	06	21	Taitung district.	909	"	18	20	54	Northern district.
876	"	06	07	07	Hwalien district.	910	"	19	01	46	Near Hsinkong.
877	"	06	07	26	"	911	"	19	09	26	"
878	"	06	07	31	"	912	"	19	17	30	Near Hwalien.
879	"	06	07	33	"	913	"	21	17	21	Near Hsinkong.
880	"	06	07	36	"	914	"	21	17	21	Northern district.
881	"	06	07	41	"	915	"	21	17	50	"
882	"	06	07	05	Northern district.	916	"	21	17	50	Near Hsinkong.
883	"	06	08	38	"	917	"	21	21	56	Northern district.
884	"	06	08	47	"	918	"	22	01	07	Near Hwalien.
885	"	06	09	18	76km. NE. of Hwalien.	919	"	22	08	03	Near Hsinkong.
886	"	06	11	01	Hwalien district.	920	"	23	00	12	"
887	"	06	15	12	Near Hsinkong.	921	"	23	01	44	Hwalien district.
888	"	06	15	14	"	922	"	23	08	44	Philippine Is. (distant)
889	"	07	06	52	Hwalien district.	923	"	25	05	04	Near Hsinkong.
890	"	07	08	12	32km. SSW. of Taidung.	924	"	26	19	20	Near Ilan.
891	"	07	18	21	Near Hsinkong.	925	"	26	23	00	Hwalien district.
892	"	08	15	35	Hergshan district.	926	"	22	08	34	Near Hwalien.
893	"	09	09	38	45km. E. of Tainan.	927	"	27	09	08	"
894	"	09	16	26	Near Hsinkong.	928	"	27	11	56	Near Hsinkong.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter	No.
		d.	h.	m.				d.	h.	m.		
997	Nov.	29	09	19	Iwojima Is. 25. 4N. 142E.	1031	Dec.	12	21	43	30km. SE. of Hwalien. (after shock)	088
998	"	30	22	59	Hwalien district.	1032	"	12	21	59	"	088
999	Dec.	01	06	21	100km. W. of Hengchun.	1033	"	12	22	56	Hengchun. district.	100
1000	"	01	19	27	Taitung district.	1034	"	12	23	13	Near Hwalien.	080
1001	"	12	20	26	Hwalein. district.	1035	"	13	00	07	"	080
1002	"	20	03	44	Taitung district.	1036	"	13	00	14	"	100
1003	"	02	11	52	50km. SW. of Hwalien.	1037	"	13	02	57	Taitung district.	080
1004	"	02	17	23	50km. NNW. of Alishan.	1038	"	13	07	17	Near Hwalien.	080
1005	"	03	00	45	Hwalien district.	1039	"	13	07	19	Taitung district.	080
1106	"	30	06	04	Near Hwalien.	1040	"	13	11	08	Hengchun district.	080
1007	"	03	12	00	Northern district. of Taiwan.	1041	"	13	11	40	Taitung district.	080
1008	"	04	21	01	600km. ENE. of Taipei.	1042	"	13	14	18	Near Hwalien.	010
1009	"	05	02	06	200km. SE. of Hsinking.	1043	"	13	16	00	90km. NE. of Ilan.	110
1010	"	05	13	24	60km. NE. of Ilan.	1044	"	13	21	22	120km. NE. of Ilan.	010
1011	"	05	16	21	"	1045	"	14	08	44	Taitung district.	010
1012	"	06	17	11	Near Hsinking.	1046	"	14	13	05	Hwalien district.	110
1013	"	06	23	26	Near Hwalien.	1047	"	14	12	35	Hengchun district.	010
1014	"	07	02	26	"	1048	"	14	18	21	Near Hwalien.	010
1015	"	07	03	47	30km. NNE. of Tainan.	1049	"	15	03	44	Hwalien district.	010
1016	"	07	12	04	70km. SE. of Ilan.	1050	"	15	12	33	Taitung district.	010
1017	"	08	08	59	Northern district.	1051	"	15	19	38	100km. NE. of Taipei.	010
1018	"	09	09	59	60km. NE. of Hwalien.	1052	"	16	00	47	Near Tawu.	020
1019	"	09	11	54	Taichung district.	1053	"	16	13	15	40km. SE. of Hwalien.	120
1020	"	09	14	38	Near Hwalien.	1054	"	17	02	45	Taitung district.	080
1021	"	09	15	34	"	1055	"	17	02	58	"	080
1022	"	09	15	36	"	1056	"	17	07	06	50km. SE. of Hwalien.	120
1023	"	09	16	13	Taitung district.	1057	"	18	08	43	Near Hwaien.	080
1024	"	10	06	33	"	1058	"	19	06	06	100km. NE. of Ilan.	010
1025	"	10	10	55	Near Hsinking.	1059	"	19	19	43	Northern district.	080
1026	"	10	11	19	Tainan district.	1060	"	20	06	18	40km. SE. of Taitung.	080
1027	"	11	17	08	50km. ESE. of Hengchun.	1061	"	21	00	07	Hengchung district.	080
1028	"	12	03	28	Near Hwalien.	1062	"	21	01	01	Near Hwalien.	080
1029	"	12	10	59	Hengchun. district.	1063	"	21	16	57	Northern district.	100
1030	"	12	16	31	40km. NW. of Hsinking.	1064	"	22	10	09	Taitung district.	080

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				
76	Alishan	07	eP	12 21 52.9	-	-	-	-	-	-	-	-	-	-	8.6 O		
	Taichung		eP	22 9.3	-	-	-	-	-	-	-	-	-	-	0		
77	Hsinkong	08	iP	17 22 21.4	-	9.3	+ 8.4	+ 54.8	1450	600	900	-	-	-	5.6 III	23.4°N. 121.2°E.	
	Alishan		iP	27.1	-	123.4	+ 69.8	?	315	419	-	-	-	5.5 II	38km. NW. of Hsinkong.		
	Taitung		eP	31.2	-	-	-	-	-	-	-	-	-	9.5 II	h=5 (s)		
	Tawu		iP	32.4	-	-	-	-	122	117	-	1.3	-	-	10.9 O		
	Hwalien		iP	34.3	-	-	-	+ 19.4	-	-	-	-	-	-	13.5 I		
	Hengchun		iP	37.1	-	6.4	-	8.6	+ ?	192	205	-	1.2	-	-	20.2 O	
	Tainan		iP	40.0	+	+	+	-	-	-	-	-	-	-	13.8 O		
	Taichung		P	40.9	-	+	-	-	99	769	175	2.7	2.2	2.2	17.3 I		
	Hsinchu		eP	47.0	-	-	-	-	-	-	-	-	-	-	20.0 O		
	Ilan		P	47.0	-	-	-	-	+ 99	- 121	-	2.4	2.0	-	21.6 O		
	Taipei		eP	50.0	-	-	-	-	-	-	-	-	-	-	23.5 O		
Penghu		P	15 01.1	-	-	-	-	-	-	-	-	-	-	20.6 O			
78	Taichung	11	eP	02 30 34.1	-	-	-	-	-	-	-	-	-	-	05 36.6 O	46°N. 150 1/2°E.	
	Taipei		P	54.1	-	-	-	-	-	-	-	-	-	-	04 57.0 O	Kurile Is. h=100	
	Taitung		P	57.5	-	-	-	-	-	-	-	-	-	-	05 13.6 O		
	Hwalien		eP	57.5	-	-	-	-	-	-	-	-	-	-	05 11.2 O		
	Hsinkong		eP	31 04.0	-	-	-	-	-	-	-	-	-	-	05 06.6 O		
	Tainan		P	09.5	-	-	-	-	-	-	-	-	-	-	05 13.8 O		
	Tawu		P	10.5	-	-	-	-	-	-	-	-	-	-	05 14.8 O		
	Hengchun		P	13.2	-	-	-	-	-	-	-	-	-	-	04 57.0 O		
	Ilan		P	27.0	-	-	-	-	-	-	-	-	-	-	04 57.0 O		
79	Hsinkong	11	iP	21 32 49.6	+	2.3	+ 1.1	- 4.1	31	31	30	0.5	0.5	0.4	7.4 I	23.6°N. 121.7°E.	
	Hwalien		eP	52.8	-	-	-	-	-	-	-	-	-	-	5.0 O	40km. SSE. of Hwalien.	
	Taichung		P	58.0	-	-	-	-	-	-	-	-	-	-	12.9 O	h=20 (I)	
	Tainan		eP	33 00.6	-	-	-	-	-	-	-	-	-	-	19.6 O		
	Ilan		eP	06.9	-	-	-	-	-	-	-	-	-	-	13.9 O		
	Taipei		eP	10.0	-	-	-	-	-	-	-	-	-	-	19.0 O		
80	Hsinkong	17	iP	04 48 11.2	-	11.2	-	2.9	+ 16.4	89	120	73	1.4	1.4	1.2	5.9 O	23.4°N. 121.7°E.
	Hwalien		iP	15.6	-	-	-	+ 9.0	-	-	-	-	-	-	10.0 II	52km. NE.	

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			
90	Kaohsiung	15	P	55.3												
91	Hengchun	26	iP	04 05 47.1	+ 10.9	- 16.5	- 88.6	164	325					4.3 I	32km. ENE. of Hengchun. h=20 (1)	
	Tawu	eP		52.6				47	50					4.7 O		
	Hsinkong	eP	06 03.9											13.8 O		
	Tainan	eP												10.1 O		
	Taitung	P	07.5											10.1 O		
	Kaohsiung	eP	07.8											21.0 O		
	Alishan	eP	17.4											21.0 O		
	Taichung	eP	41.2											21.0 O		
92	Hlan	29	P	09 19 27.8										3 29.3 O	25.4°N. 142°E. Near Iwotima Is.	
	Taipei	P	30.3											3 27.1 O		
	Hwalien	eP	33.3											3 16.4 O		
	Hsinkong	eP	36.7											3 36.3 O		
	Hengchun	eP	38.0											3 30.9 O		
	Alishan	iP	44.9											3 30.9 O		
	Taichung	eP	47.2											3 30.9 O		
	Kaohsiung	eP	50.5											3 30.9 O		
	Tawu	eP	50.9	+ 8.1	+ 10.5	- 12.5	23	54	34	9.7	5.9	7.4	3	34.3 O		
	Tainan	P	20 05.3											3 46.6 O		
Taitung	eP	22.7											3 32.7 O			

Major Earthquakes Which Occurred in December, 1956.

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			
93	Alishan	12	iP	20 53 25.0	- 3.3	- 5.9	+ 2.5								9.8 II	23.8°N. 121.5°E. 30km. SW. of Hwalien h=5 (s)
	Hwalien	iP	14.5	+ 8.2	+ 38.0	+ 104.5									2.7 N	
	Hsinchu	P	30.1				500	450		1.0	1.2				16.6 I	
	Taipei	eP	34.5				300	330	130	1.0	1.0	1.0			18.5 I	
	Taichung	P	25.8				621	1212	668	1.6	2.4	2.2			12.4 I	
Tainan	iP	35.4		+	+		321	233	216	2.1	1.7	2.6			19.7 I	