

# 地震季報

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## THE SEISMOLOGICAL BULLETIN

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Geographical coordinates of the Seismological Station, Taiwan China.

$\lambda$  : Longitude  $\varphi$  : Geographical Latitude

$\varphi'$  : Geocentric Latitude

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

Station	$\varphi$ ;(N)	$\lambda$ ;(E)	$\varphi$	Altitude	Subsoil	a	b	c	Seismographs
Alishan (mt.)	23.31°	120.48°	23.22°	2406.1 m	Miocene Sandstone	-0.4700	+0.7885	+0.3966	W. (H. V.) O. S <sub>2</sub> .
Hengchun	22.00	120.45	21.52	22.3	Alluvium	-0.4745	+0.7976	+0.3724	W. (H. V.) S <sub>2</sub> .
Hsinkong	23.06	121.22	22.58	36.5	"	-0.4793	+0.7862	+0.3901	P <sub>1</sub> . S. W. (H. V.) A <sub>1</sub> .
Hsinchu	24.48	120.58	24.39	32.8	"	-0.4677	+0.7793	+0.4171	P <sub>1</sub> . S <sub>2</sub> .
Hwalien	23.58	121.37	23.49	17.6	"	-0.4796	+0.7791	+0.4038	W. (H. V.) P <sub>1</sub> . S <sub>2</sub> . A <sub>2</sub> .
Ilan	24.46	121.45	24.37	7.4	"	-0.4784	+0.7731	+0.4165	W. (H. V.) P <sub>1</sub> . S <sub>1</sub> .
Kaohsiung	22.37	120.16	22.29	33.1	"	-0.4657	+0.7981	+0.3824	P <sub>1</sub> . S <sub>1</sub> .
Penghu	23.32	119.33	23.23	9.4	Basalt	-0.4527	+0.7985	+0.3969	P <sub>1</sub> .
Taipei	25.02	121.31	24.53	8.0	Alluvium	-0.4742	+0.7733	+0.4208	W. (H. V.) O. S <sub>1</sub> . P <sub>2</sub> . P <sub>3</sub> . A <sub>1</sub> .
Tawu	22.21	120.54	22.13	7.6	"	-0.4754	+0.7944	+0.3781	W. (H. V.) S <sub>1</sub> .
Taitung	22.45	121.09	22.37	8.9	"	-0.4775	+0.7900	+0.3846	W. (H. V.) S <sub>2</sub> .
Tainan	23.00	120.13	22.52	12.7	"	-0.4637	+0.7962	+0.3886	W. (H. V.) P <sub>1</sub> . S <sub>1</sub> . A <sub>1</sub> .
Taichung	24.09	120.41	24.00	77.1	"	-0.4662	+0.7856	+0.4067	W. (H. V.) S <sub>2</sub> . P <sub>1</sub> .
Yushan (Mt. Morrison)	23.29	120.57	23.21	3850.0	"	-0.4722	+0.7873	+0.3964	P <sub>1</sub> .

W(H) : Wiechert's horizontal seismograph.

W(V) : Wiechert's vertical seismograph.

O : Omori's horizontal seismograph. (V:20)

P<sub>1</sub> : C.M.O. type horizontal portable seismograph. (V:40)

P<sub>2</sub> : Three component portable seismograph. (V:20)

P<sub>3</sub> : Higuti-C.M.O. type short period, horizontal seismograph. (V:50)

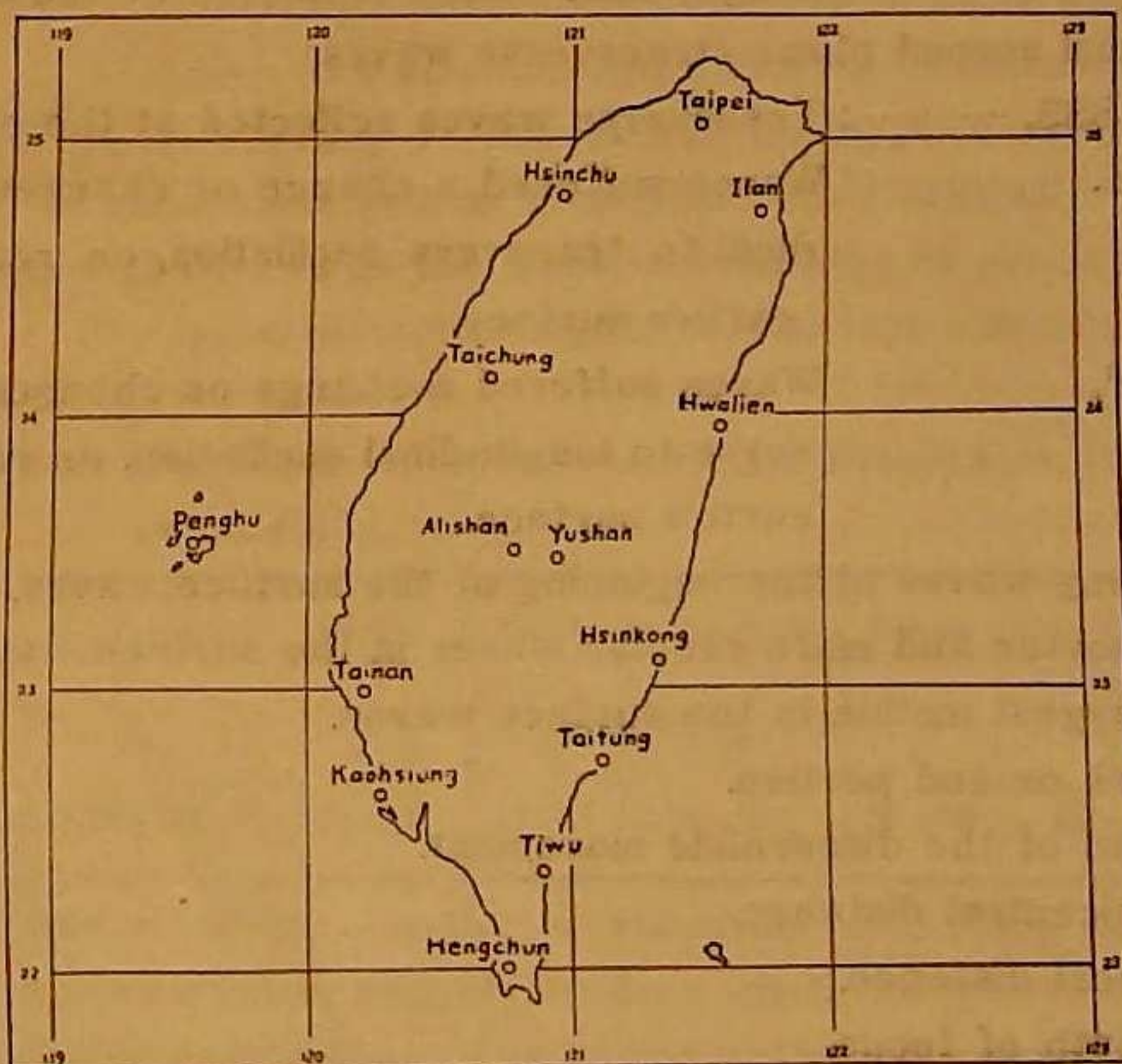
S<sub>1</sub> : C.M.O. type three component strong motion seismograph. (V:2)

S<sub>2</sub> : Higuti-C.M.O. type three component strong motion seismograph. (V:1)

A<sub>1</sub> : Ishimoto's three component acceleration seismograph.

A<sub>2</sub> : Higuti's three component strong motion accelerometer.

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/sec. <sup>2</sup> )
Magnification	V.	Proper period of the pendulum	$T_0$ (sec.)
Damping coefficient	$\xi$		

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.	$\xi$ .	$\frac{r}{T_0^2}$	$T_0$
W(H)	E-W	200	77	9	0.004	5.1
	N-S	200	78	9	0.005	5.1
	U-D	80	75	8	0.003	5.1
P <sub>3</sub>	E-W	18	40	8	0.005	5.1
	N-S	18	40	8	0.005	5.1
O	E-W	15	20	3	0.002	15.7
	N-S	15	20	3	0.003	15.1
S <sub>1</sub>	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 <sub>2</sub>	E-W	10	20	2	0.015	4.0
	N-S	10	20	2	0.026	4.0
	U-D	7.5	20	2	0.018	4.0
A <sub>1</sub>	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	0.08

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.

$\Delta$  : Epicentral distance.

$\Delta H$  : Focal distance.

H : Depth of focus.

$\mu$  : 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.

$I_V$  : 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, stone lanterns etc., damaging of chimneys and mud-and-plaster warehouses.

VI. Disastrous: Demolition of houses, landslips, 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	0~30 km.	30~100 km.	100~200 km.	>200 km.

7. Geographical coordinates:

$\lambda$ : Longitude (E)                       $\phi$ : 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, 1958.

In January, one hundred and ten earthquakes were observed, twelve of which were felt by persons and the remains were the unfelt ones. The felt earthquakes in this month one was classified as moderate earthquake and another one was classified as small felt area one, and the remains were classified as local ones. The moderate earthquake occurred on 22nd, it's epicenter was located at 23.6 N. 121.3 E. and it's depth was estimated about 5km., The epicenter of the small felt area earthquake which occurred on 19th was located at 24.3 N. 122.6 E., it's depth was estimated about 40km. Among those local earthquakes, one was happened in northern district, four were occurred in Hwalien district, four were occurred in the vicinity of Hsinkong and the last was occurred in the vicinity of Hengchun. There were five distant earthquakes recorded in this month, one of them occurred on 19th and it's epicenter was located near Ecuador, and the remains were very small and uncertain.

In February, one hundred and seventeen earthquakes were observed, five of the were felt by persons and the remains were the unfelt ones. Among the five felt earthquakes, three of them were classified as small felt area earthquakes of which one occurred in Hwalien and another in Hengchun, and the remains were local ones, Among those local earthquakes one was happened in Northern district and another in Taitung district. The epicenters and depth of the felt earthquakes in this month are given in the following figs. Six distant earthquakes were recorded at our stations,

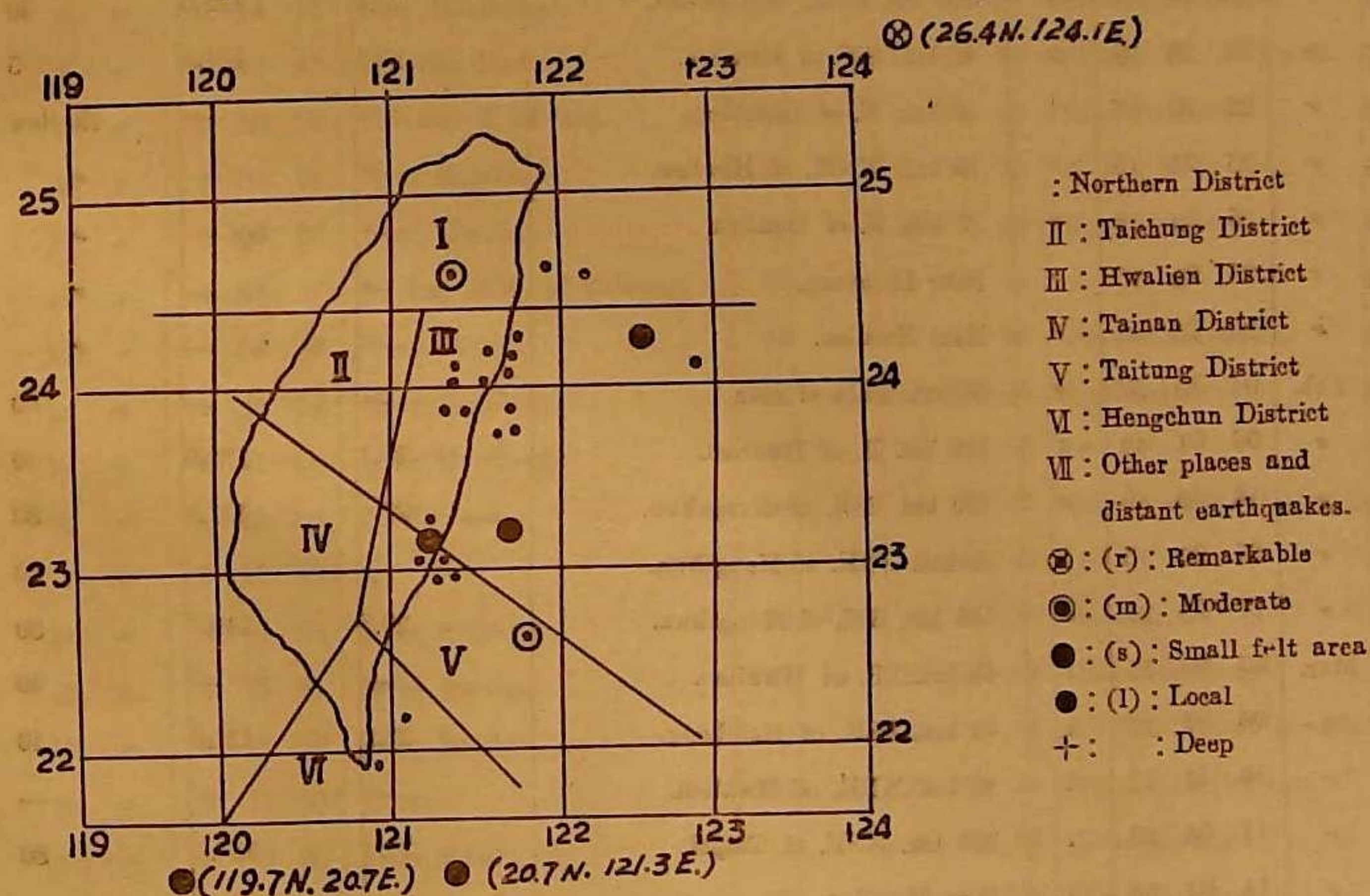
their epicenters were located in Tibet, Honshu Japan, Bonin Is., Batan Is., and Volcano Is. respectively.

In March, the number of earthquakes were One hundred and thirty one and has an increase in comparison to the previous months. Among them thirteen were classified as felt earthquakes and the rest were unfelt ones.

One remarkable earthquake occurred on 11th. It's epicenter was located at Ryukyu (26.4 N. 124.8 E.), and one moderate earthquake occurred on 15th, it's epicenter was located at 22.6 N. 124.8 E., and two of the felt ones were classified as small felt area earthquakes, and seven were classified as local ones.

Four distant earthquakes were recorded their epicenters at the following locations such as in Philippines, Burma-Pakistan border and the rest was unknown.

Epicenters of Felt Earthquakes in January to March, 1958



Number of earthquakes classified according to its Magnitudes and Districts, January to March, 1958

Classification	Number of felt earthquakes					Number of unfelt earthquakes	Total
	Remarkable	Moderate	Small felt area	Local	Total		
Districts							
Northern District	—	—	—	2	2	18	20
Taichung "	—	—	—	—	—	5	5
Hwalien "	—	1	3	11	15	87	104
Tainan "	—	—	—	—	—	1	1
Taitung "	—	1	1	7	9	103	112
Hengchun "	—	—	2	1	3	98	101
Other places "	1	—	—	—	1	15	16
Total	1	2	6	21	30	327	357



## Felt earthquakes in the month of January to March, 1958

No.	Month	P. (G. M. T.)			Magni- tude	Epicenter	Latitude		Longitude	Depth, Kms.
		d.	h.	m.			N.	E.		
1	Jan.	07	10	55	1	Near Hsinkong.	—	—	shallow	
2	"	10	07	58	"	Near Hengchun.	—	—	"	
3	"	10	16	50	"	50 km. SSE. of Hwalien.	—	—	40	
4	"	16	22	26	"	28 km. SSW. of Hwalien.	—	—	shallow	
5	"	17	04	31	"	56 km. ESE. of Ilan.	—	—	"	
6	"	19	09	11	s	110 km. ENE. of Hwalien.	24.3	122.6	40	
7	"	22	18	29	m	47 km. SW. of Hwalien.	23.6	121.3	5	
8	"	25	20	57	1	16 km. N. of Hsinkong.	—	—	shallow	
9	"	25	21	15	"	16 km. WNW. of Hwalien.	—	—	"	
10	"	26	22	18	"	27 km. N. of Hwalien.	—	—	"	
11	"	26	22	53	"	Near Hsinkong.	—	—	"	
12	"	28	23	03	"	Near Hwalien.	—	—	"	
13	Feb.	04	10	37	"	60 km. ESE. of Ilan	—	—	60	
14	"	06	01	42	s	133 km. E. of Hwalien.	24.1	122.9	40	
15	"	18	19	49	"	180 km. SSE. of Hengchun.	20.4	121.3	80	
16	"	26	20	13	1	49 km. ENE. of Hengchun.	—	—	20	
17	"	27	23	28	s	185 km. SW. of Hengchun.	20.7	119.7	80	
18	Mar.	03	03	15	1	40 km. SE. of Hwalien.	—	—	40	
19	"	03	07	22	s	42 km. ESE. of Hsinkong.	23.2	121.8	10	
20	"	10	10	12	1	46 km. NNE. of Hwalien.	—	—	—	
21	"	11	00	26	r	290 km. ENE. of Taipei.	26.4	124.1	80	
22	"	14	04	56	1	Near Hwalien	—	—	—	
23	"	15	00	24	m	126 km. ESE. of Taitung.	22.6	121.8	10	
24	"	17	04	13	1	78 km. SSE. of Hwalien.	—	—	—	
25	"	25	05	09	"	Near Hsinkong.	—	—	—	
26	"	25	08	49	"	20 km. WSW. of Hwalien.	—	—	—	
27	"	25	09	30	"	84 km. SW. of Hwalien.	—	—	—	
28	"	25	09	36	"	16 km. SSW. of Hwalien.	—	—	—	
29	"	26	09	36	"	Near Hsinkong.	—	—	—	
30	"	27	00	38	s	10 km. NNW. of Hsinkong.	23.1	121.3	—	

## Unfelt Earthquakes in the Month of January to March, 1958

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
1	Jan.	1	05	51	Hengchun. District.	34	Jan.	10	14	35	Near Taipei.
2	"	1	09	58	Near Hsinkong.	35	"	10	23	17	Near Hsinkong.
3	"	1	15	06	"	36	"	11	01	32	"
4	"	1	22	00	"	37	"	11	20	21	"
5	"	2	02	01	Near Hwalien.	38	"	12	10	41	Hwalien District.
6	"	3	14	11	Near Hsinkong.	39	"	13	13	20	Northern District.
7	"	3	15	42	Hwalien District.	40	"	14	10	54	50 km. SE. of Hwalien.
8	"	3	20	50	115 km. E. of Ilan.	41	"	14	22	03	Near Hsinkong.
9	"	4	04	58	Near Hsinkong.	42	"	15	14	18	35 km. S. of Ilan.
10	"	4	06	36	Near Hwalien.	43	"	16	17	40	Near Hsinkong.
11	"	4	08	27	26 km. SSW. of Taitung.	44	"	16	18	14	"
12	"	4	08	36	Near Taitung.	45	"	17	04	30	Northern District.
13	"	4	21	04	Near Hsinkong.	46	"	17	05	46	Near Hsinkong.
14	"	4	21	08	Near Hsinkong.	47	"	17	13	18	"
15	"	5	08	09	Celebes sea.	48	"	18	00	47	30 km. SSW. of Hwalien.
16	"	5	11	46	"	49	"	18	01	48	"
17	"	6	04	05	Near Hsinkong.	50	"	19	14	26	Ecuador.
18	"	6	10	05	Near Hwalien.	51	"	20	14	58	Near Hsinkong.
19	"	6	11	18	Near Hsinkong.	52	"	20	18	48	65 km. NE. of Hwalien.
20	"	6	11	36	Burma.	53	"	20	19	44	100 km. E. of Ilan.
21	"	6	12	55	Near Hsinkong.	54	"	21	02	28	Near Hwalien.
22	"	6	13	30	"	55	"	21	05	59	Near Hsinkong.
23	"	6	21	48	67 km. ESE. of Hengchun.	56	"	21	10	41	Taitung District.
24	"	6	23	39	Near Tawu.	57	"	21	14	54	Near Hsinkong.
25	"	7	03	49	Near Hsinkong.	58	"	21	23	01	Near Hwalien.
26	"	7	18	51	Near Hwalien.	59	"	22	00	27	Near Hsinkong.
27	"	8	06	59	55 km. SE. of Ilan.	60	"	22	04	11	"
28	"	9	17	38	50 km. SSE. of Hwalien.	61	"	22	10	59	Taichung District.
29	"	9	20	38	Hwalien District.	62	"	22	13	29	26 km. ESE. of Hwalien.
30	"	10	01	14	Taichung District.	63	"	22	17	18	30 km. WSW. of Hwalien.
31	"	10	08	31	Taitung District.	64	"	22	18	15	Near Hsinkong.
32	"	10	10	12	Near Hengchun.	65	"	22	19	52	Near Hwalien.(aftershock)
33	"	10	13	02	Near Hwalien.	66	"	22	21	29	"



No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
67	Jan.	22	22	41		101	Feb.	02	14	37	Near Hsinkong.
68	"	22	23	59	"	102	"	03	07	15	110 km. NNE. of Ilan.
69	"	23	02	32	"	103	"	04	09	08	Near Hsinkong.
70	"	23	03	07	"	104	"	04	12	46	66 km. SE. of Ilan.
71	"	23	14	14	Near Hsinkong.	105	"	04	21	53	Near Ilan.
72	"	24	17	49	"	106	"	05	11	29	Near Hsinkong.
73	"	25	04	08	Near Hwalien.	107	"	05	16	19	"
74	"	25	10	03	Taitung District.	108	"	06	01	29	Near Hengchun.
75	"	25	21	09	Near Hsinkong.	109	"	06	02	23	"
76	"	26	08	34	"	110	"	06	02	26	"
77	"	26	19	30	Taitung District.	111	"	06	03	08	Near Hsinkong.
78	"	26	19	32	"	112	"	06	16	04	Tainan District.
79	"	26	23	58	Near Hengchun.	113	"	07	03	28	50 km. SSE. of Ilan.
80	"	27	00	26	Near Hsinkong.	114	"	07	23	27	29 N. 100 E.
81	"	27	04	39	"	115	"	08	10	34	Near Hsinkong.
82	"	27	12	03	Near Hwalien.	116	"	09	08	38	"
83	"	27	12	23	Taitung District.	117	"	10	02	43	Near Hwalien.
84	"	27	18	11	85 km. ESE. of Hengchun.	118	"	11	06	15	Near Hengchun.
85	"	28	18	19	Near Hsinkong.	119	"	12	01	52	Near Hsinkong.
86	"	28	22	22	Taitung District.	120	"	12	03	52	Hengchun District.
87	"	28	23	32	Near Hsinkong.	121	"	12	22	43	Near Taipei.
88	"	29	08	37	Hwalien District.	122	"	13	17	07	135 km. SSE. of Hengchun.
89	"	29	16	30	Near Hwalien.	123	"	13	21	53	Hengchun District.
90	"	29	17	00	Near Hsinkong.	124	"	13	22	42	96 km. of Ilan.
91	"	30	06	22	"	125	"	15	18	16	Near Hwalien.
92	"	30	08	29	40 km. SSW. of Hwalien.	126	"	16	05	25	"
93	"	31	06	03	Near Hwalien.	127	"	16	06	09	Near Honshu Japan.
94	"	31	06	58	"	128	"	16	06	51	Hengchun District.
95	"	31	14	40	180 km. ESE. of Hengchun.	129	"	16	08	41	Hwalien District.
96	"	31	15	34	Near Hwalien.	130	"	16	10	20	Near Hsinkong.
97	Feb.	01	00	22	Near Hsinkong.	131	"	16	11	50	40 km. SE. of Hwalien.
98	"	01	01	01	Taitung District.	132	"	17	19	46	Near Hsinkong.
99	"	01	06	38	29 km. N. of Hwalien.	133	"	18	10	39	Hengchun District.
100	"	01	20	25	Near Hsinkong.	134	"	18	10	58	"

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
135	Feb.	18	11	29	Hengchung Distlirict.	169	Feb.	20	20	50	Hengchun District.
136	"	18	18	25	? (d)	170	"	21	03	50	"
137	"	18	18	41	? (d)	171	"	21	19	55	"
138	"	18	18	53	135 km. SSE. of Hengchun.	172	"	21	20	20	"
139	"	18	19	09	142 km. of Hsinkong.	173	"	21	20	51	"
140	"	18	19	29	Hengchun District.	174	"	21	22	41	"
141	"	18	19	35	"	175	"	21	23	12	"
142	"	18	20	12	"	176	"	22	03	58	"
143	"	18	21	42	"	177	"	22	04	39	"
144	"	18	21	44	"	178	"	22	06	02	Near Hwalien.
145	"	18	21	50	"	179	"	22	06	53	"
146	"	18	22	09	"	180	"	22	09	05	Hengchun District.
147	"	19	05	16	"	181	"	22	11	00	Hwalien District.
148	"	19	06	10	"	182	"	22	12	51	Near Hwalien.
149	"	19	09	34	"	183	"	22	13	33	"
150	"	19	10	48	Near Hwalien.	184	"	22	17	20	Northern District.
151	"	19	14	22	Near Hsinkong.	185	"	23	09	16	(d) 28 1/2 N. 140 E.
152	"	19	14	55	"	186	"	23	10	07	180 km. S. of Hengchun.
153	"	19	18	33	Hengchun District.	187	"	23	10	52	Volcano Is.
154	"	20	03	02	"	188	"	23	11	04	Hengchun District.
155	"	20	03	37	"	189	"	23	11	19	"
156	"	20	03	57	105 km. SSE. of Hengchun.	190	"	24	02	03	Northern District.
157	"	20	04	05	"	191	"	24	12	40	"
158	"	20	04	24	"	192	"	24	16	59	Near Hwalien.
159	"	20	04	38	145 km. S. of Hengchun.	193	"	26	00	50	Near Hsinkong.
160	"	20	09	04	"	194	"	26	03	37	Near Hengchun.
161	"	20	11	51	"	195	"	26	18	10	Hengchun District.
162	"	20	13	30	Near Hengchun.	196	"	26	19	00	Near Hsinkong.
163	"	20	14	04	Near Hwalien.	197	"	26	20	36	Hengchun District.
164	"	20	14	10	"	198	"	26	21	13	"
165	"	20	14	29	Near Hsinkong.	199	"	27	07	25	Near Hwalien.
166	"	20	18	49	145 km. S. of Hengchun.	200	"	27	23	46	Hengchun District.
167	"	20	19	02	Hengchun District.	201	"	28	00	24	"
168	"	20	20	24	"	202	"	28	00	36	"



No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
203	Feb.	28	01	54	Hengchun District.	237	Mar.	05	08	06	Near Hsinkong.
204	"	28	03	34	"	238	"	05	11	31	112 km. ESE. of Hengchun.
205	"	28	05	31	"	239	"	05	12	22	Near Hsinkong.
206	"	28	08	42	"	240	"	05	18	44	25 km. SSE. of Hengchun.
207	"	28	13	01	"	241	"	05	19	45	65 km. NNE. of Hsinkong.
208	"	28	13	09	"	242	"	06	08	24	108 km. NE. of Hwalien.
209	"	28	16	44	"	243	"	06	09	12	Hwalien District.
210	"	28	19	45	"	244	"	06	09	23	"
211	"	28	19	57	"	245	"	06	09	43	Northern District.
212	"	28	20	19	"	246	"	06	13	54	Hengchun District.
213	"	28	21	07	"	247	"	06	17	49	"
214	"	28	21	43	"	248	"	06	21	13	Near Hsinkong.
215	Mar.	01	00	52	Taitung District.	249	"	07	13	03	Near Hwalien.
216	"	01	02	11	Hengchun District.	250	"	09	08	03	45 km. SE. of Ilan.
217	"	01	03	45	"	251	"	09	10	02	Near Hsinkong.
218	"	01	17	40	26 km. NE. of Hsinkong.	252	"	09	13	05	Hwalien District.
219	"	01	19	18	15 km. W. of Hwalien.	253	"	09	13	35	"
220	"	01	22	09	Hengchun District.	254	"	10	03	36	Near Hsinkong.
221	"	02	02	18	"	255	"	10	07	58	Near Hengchun.
222	"	02	02	34	"	256	"	10	10	41	Northern District.
223	"	02	06	14	Near Hsinkong.	257	"	10	10	55	Hwalien District.
224	"	02	06	51	Hengchun District.	258	"	10	11	21	Taitung District.
225	"	02	14	04	Near Hsinkong.	259	"	10	12	02	Northern District.
226	"	03	00	31	"	260	"	13	09	44	Near Hwalien.
227	"	03	02	26	35 km. SSW. of Ilan.	261	"	13	12	00	Hengchun District.
228	"	04	05	30	130 km. SSE. of Hengchun.	262	"	13	21	08	Near Hengchun.
229	"	04	05	42	255 km. ESE. of Hengchun.	263	"	13	23	52	? (d)
230	"	04	15	58	90 km. NE. of Hwalien.	264	"	14	00	22	"
231	"	14	16	36	Hengchun District.	265	"	14	09	56	Taitung District.
232	"	04	17	13	"	266	"	14	00	59	"
233	"	04	17	47	"	267	"	14	16	19	Near Hwalien.
234	"	04	20	35	"	268	"	15	01	15	"
235	"	04	20	58	Northern District.	269	"	15	01	20	Taitung District.
236	"	05	05	13	Near Hsinkong.	270	"	15	03	10	Hengchun District.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
271	Mar.	15	17	37	Hengchun District.	300	Mar.	24	03	03	Near Ilan.
272	"	15	21	33	Near Alishan.	301	"	24	11	57	Hengchun District.
273	"	15	21	36	Taitung District.	302	"	24	18	59	80 km. NE. of Hengchun.
274	"	16	00	17	"	303	"	25	03	10	Hwalien District.
275	"	16	08	40	13 km. N. of Taitung.	304	"	25	03	23	Near Hwalien.
276	"	16	17	50	Near Hsinkong.	305	"	25	05	02	Near Hsinkong.
277	"	17	08	08	Hengchun District.	306	"	25	11	07	19 km. SSW. of Hwalien.
278	"	17	19	53	Near Hwalien.	307	"	25	13	56	Near Hwalien.
279	"	17	22	14	Hengchun District.	308	"	25	14	07	"
280	"	18	18	21	90 km. E. of Hengchun.	309	"	25	15	57	120 km. SW. of Hengchun.
281	"	19	00	16	Near Hwalien.	310	"	25	19	31	Taitung District.
282	"	19	02	59	Taitung District.	311	"	25	19	38	Hengchun District.
283	"	19	16	02	Hengchun District.	312	"	25	20	25	"
284	"	20	01	48	Taitung District.	313	"	26	09	06	Taitung District.
285	"	20	02	24	"	314	"	26	19	49	112 km. E. of Hwalien.
286	"	20	02	29	Near Hsinkong.	315	"	27	00	41	Near Hsinkong.
287	"	21	02	18	"	316	"	27	00	47	"
288	"	21	14	17	Hwalien District.	317	"	27	02	11	Taitung District.
289	"	22	05	11	"	318	"	27	21	02	Northern District.
290	"	22	10	17	(d) Burma.	319	"	27	21	26	Taitung District.
291	"	22	10	26	Hwalien District.	320	"	27	22	01	Taichung District.
292	"	22	10	36	Near Hwalien.	321	"	28	00	04	Near Hsinkong.
293	"	22	12	35	"	322	"	28	18	12	"
294	"	22	13	20	"	323	"	29	00	41	"
295	"	22	14	15	Near Hsinkong.	324	"	29	01	43	Near Hwalien.
296	"	22	15	48	Near Hwalien.	325	"	30	09	27	"
297	"	22	16	08	"	326	"	30	12	44	Hwalien District.
298	"	23	09	24	Near Hsinkong.	327	"	30	16	04	79 km. ESE. of Hwalien.
299	"	23	10	16	350 km. S. of Hengchun.						







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			
					$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s m			
3	Hengchun	16		06 09 30.7	-	-	-	-	-	-	-	-	-	0		
4	Hengchun	18	P	18 53 11.1	-	-	-	-	-	-	-	-	-	14.2	20.9N.	
	Hsinkong		P	26.1	-	-	-	-	-	-	-	-	-	26.9	121.2E.	
	Alishan		eP	28.6	-	-	-	-	-	-	-	-	-	0	135km. SSE.	
	Tainan		P	33.1	-	-	-	-	-	-	-	-	-	0	of Hengchun	
	Taitung		P	33.4	-	-	-	-	-	-	-	-	-	25.0	h=20	
	Kaohsiung		eP	42.3	-	-	-	-	-	-	-	-	-	0		
	Hwalien		eP	47.5	-	-	-	-	-	-	-	-	-	27.9	0	
	Taichung		eP	54 00.5	-	-	-	-	-	-	-	-	-	0		
	Ilan		eP	24.7	-	-	-	-	-	-	-	-	1	57.9	0	
5	Hengchun	18	P	19 49 11.0	-	-	-	-	-	-	-	-	-	18.3	20.4N.	
	Tainan		eP	19.0	-	-	-	-	-	-	-	-	-	44.6	121.3E.	
	Taitung		eP	21.2	-	-	-	-	-	-	-	-	-	25.5	180km. SSE.	
	Hsinkong		eP	28.2	-	-	-	-	-	-	-	-	-	28.7	of Hengchun	
	Alishan		eP	30.8	-	-	-	-	-	-	-	-	-	33.7	(s) h=80	
	Kaohsiung		P	33.1	-	-	-	-	-	-	-	-	-	12.0	0	
	Taichung		eP	35.1	-	-	-	-	-	-	-	-	-	0		
	Hwalien		eP	38.7	-	-	-	-	-	-	-	-	-	28.5	0	
	Hsinchu		eP	48.7	-	-	-	-	-	-	-	-	-	0		
	Ilan		eP	58.7	-	-	-	-	-	-	-	-	-	30.4	0	
	Taipei		eP	50 00.9	-	-	-	-	-	-	-	-	-	50.3	0	
6	Hsinkong	23	eP	09 16 03.8	-	-	-	-	-	-	-	-	-	2	54.7	28 1/2 N.
	Ilan		eP	11.1	-	-	-	-	-	-	-	-	-	2	30.4	139 1/2 E.
	Taitung		P	11.4	-	-	-	-	-	-	-	-	-	0	30.4	Banan ls.
	Taipei		eP	43.0	-	-	-	-	-	-	-	-	-	0	0	region.
	Hwalien		eP	19 15.4	-	-	-	-	-	-	-	-	-	0	0	h=400 (d)
	Hengchun		eP	19 17.7	-	-	-	-	-	-	-	-	-	0	0	
7	Hengchun	23	P	10 06 51.7	-	-	-	-	-	-	-	-	-	18.4	0	20 1/2 N.
	Tawu		iP	56.4 + 7.7 + 1.2 + 9.9	-	-	-	-	-	-	-	-	-	22.0	0	120.7 E.
	Hwalien		P	57.9	-	-	-	-	-	-	-	-	-	31.3	0	180Kms. S.
	Taitung		P	07 02.3	-	-	-	-	-	-	-	-	-	30.0	0	of Hengchun



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					
					$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s m				s	
7	Kaohsiung	23	eP	10 06 02.9	-	-	-	-	-	-	-	-	-	-	19.9	0		
	Tainan		eP	05.4	-	-	-	-	-	-	-	-	-	-	48.8	0		
	Hsinkong		eP	08.1	-	-	-	-	-	-	-	-	-	-	29.5	0		
	Alishan		eP	11.5	-	-	-	-	-	-	-	-	-	-	33.6	0		
	Taichun		eP	28.3	-	-	-	-	-	-	-	-	-	-	0			
	Ilan		eP	38.7	-	-	-	-	-	-	-	-	-	-	42.1	0		
	Taipei		eP	40.5	-	-	-	-	-	-	-	-	-	-	48.0	0		
8	Hwalien	23	P	10 52 03.7	-	-	-	-	-	-	-	-	-	-	3	33.8	24N. 141 1/2 E.	
	Ilan		eP	08.6	-	-	-	-	-	-	-	-	-	-	3	24.9	Volcano ls.	
	Hsinkong		eP	12.7	-	-	-	-	-	-	-	-	-	-	3	23.5	(d)	
	Taipei		eP	15.6	-	-	-	-	-	-	-	-	-	-	0			
	Taitung		P	16.8	-	-	-	-	-	-	-	-	-	-	3	35.2	0	
	Tawu		P	22.3	-	-	-	-	-	-	-	-	-	-	0			
	Tainan		eP	23.7	-	-	-	-	-	-	-	-	-	-	0			
	Hengchun		P	28.3	-	-	-	-	-	-	-	-	-	-	0			
9	Hengchun	27	P	23 28 15.1	-	-	-	-	-	-	-	-	-	-	4.1	19.0	120N. 20 1/2 E.	
	Tawu		eP	20.2 - 2.6 + 1.2 - 3.7	-	-	-	-	-	-	-	-	-	-	304	436	Batan ls.	
	Tainan		eP	26.6	-	-	-	-	-	-	-	-	-	-	189	1.9	1.4	
	Hsinkong		eP	31.0	-	-	-	-	-	-	-	-	-	-	114	10.0	09.1	
	Taitung		P	33.1	-	-	-	-	-	-	-	-	-	-	07.0	0		
	Alishan		eP	37.5	-	-	-	-	-	-	-	-	-	-	0			
	Penghu		P	44.3	-	-	-	-	-	-	-	-	-	-	+ 180	- 175	7.5	
	Taichung		eP	45.3	-	-	-	-	-	-	-	-	-	-	0			
	Hwalien		P	47.9	-	-	-	-	-	-	-	-	-	-	110	10.2	4.0	
	Ilan		eP	29 01.2	-	-	-	-	-	-	-	-	-	-	-	157	+ 178	3.5
	Taipei		eP	03.2	-	-	-	-	-	-	-	-	-	-	0			

Seismological Data of Major Earthquakes Occurred in March, 1958.

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				
					$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s m				s
1	Hsinc	3	P	07 22 17.9	-	-	-	-	-	-	-	-	-	-	16.7	0	23.2N.
					-	-	-	-	-	-	-	-	-	-	0		121.8E.



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	N	E			
				h. m. s.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s			
1	Hengchun	3	P	07 22 24.7	-	-	-	-	194	-	124	975	1.0	-	-	17.7	O	42Km. ENE. of Hsinkong
	Hsinkong		iP	56.3	+ 28.4	+ 85.2	+ 17.1	1400	950	505	0.9	0.9	-	-	-	05.8	III	h=10 (s)
	Taitung		iP	23 01.8	+ 10.4	- 1.8	- 1.7	604	793	530	2.9	2.7	3.1	-	-	12.6	II	
	Hwalien		iP	02.9	+ 12.0	- 12.0	-	556	608	-	2.3	2.3	-	-	-	09.8	III	
	Alishan		iP	04.3	- 42.7	+ 126.8	- 54.9	-	-	-	-	-	-	-	-	12.4	II	
	Tawu		P	09.3	-	-	-	51	61	-	-	1.2	-	-	-	11.6	O	
	Taichung		iP	12.1	- 7.0	+ 12.0	- 34.0	960	786	816	1.9	1.9	2.7	-	-	18.1	II	
	Tainan		P	16.2	-	-	-	-	-	-	-	-	-	-	-	19.0	O	
	llan		P	17.2	-	-	-	233	+ 246	+ 106	1.9	2.4	1.7	-	-	15.6	I	
	Taipei		P	21.9	-	-	-	153	192	-	1.7	1.9	-	-	-	18.0	O	
2	Taipei	11	iP	00 26 49.1	+ 13.0	+ 52.0	- 10.5	6000	5259	-	1.8	4.0	-	-	-	32.0	III	26.4N. 124.1E. Ryukyu Is. h=80
	llan		iP	50.8	+ 12.0	+ 49.0	- 73.0	- 691	-1204	- 380	3.5	3.8	3.3	-	-	28.6	III	
	Hwalien		P	50.9	-	-	+ 18.0	13560	11320	2870	4.0	3.4	3.8	-	-	20.7	IV	
	Hsinchu		iP	54.5	-	-	-	10000	10000	5200	3.6	3.6	5.0	-	-	34.5	II	
	Hsinkong		P	57.5	- 7.4	- 11.3	+ 18.5	4300	5750	3150	2.1	2.1	2.8	-	-	34.5	IV	
	Taichung		iP	27 00.0	-	-	+	9455	8727	7000	3.2	3.2	3.2	-	-	40.7	III	
	Alishan		iP	00.8	- 6.1	- 11.3	- 3.7	-	-	-	-	-	-	-	-	39.0	III	
	Taitung		iP	00.8	- 3.9	- 6.0	+ 6.7	-	-	-	-	-	-	-	-	33.0	IV	
	Tawu		iP	05.6	- 6.4	- 4.9	- 9.9	-	-	-	-	-	-	-	-	58.0	II	
	Penghu		P	10.9	-	-	-	-	-	-	-	-	-	-	-	48.3	III	
	Hengchun		iP	11.3	- 7.1	- 12.4	+ 21.6	25000	18000	-21000	-	3.8	3.6	1	-	00.1	III	
	Kaohsiung		P	11.4	-	-	-	-	-	-	-	-	-	-	-	54.6	III	
	Tainan		P	13.0	-	-	-	18500	13500	-	2.6	2.6	-	-	-	54.0	III	
3	Hengchun	13	P	23 51 49.0	-	-	-	-	-	-	-	-	-	-	2	56.2	O	121/2N. 123 1/2E. Philippine Is. (d)
	Taitung		P	56.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hsinkong		eP	52 05.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tainan		eP	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Taipei		eP	40.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	3	18.9	O	
4	Hsinkong	15	iP	00 24 16.5	+ 19.3	+ 22.2	- 47.1	1625	1550	1250	0.8	0.8	0.9	-	-	09.3	III	22.6N. 121.8E. 126Kms. ESE. of Taitung (m)
	Taitung		P	18.1	+ 39.0	+ 40.5	-	-	-	-	-	-	-	-	-	06.6	III	h=10
	Tawu		eP	22.0	-	-	-	454	417	326	4.3	-	4.2	-	-	12.3	I	
	Hengchun		iP	22.4	- 5.5	+ 19.1	+ 3.4	-1500	+1500	- 672	-	-	-	-	-	24.8	II	



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	N	E			
				h. m. s.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s			
4	Alishan	15	eP	26.3	-	-	-	-	-	-	-	-	-	-	-	18.9	I	
	Hwalien		iP	28.6	+ 17.0	- 9.0	-	380	402	-	1.1	2.1	-	-	-	16.3	III	
	Kaohsiung		P	30.0	-	-	-	-	-	-	-	-	-	-	-	24.8	I	
	Tainan		P	34.1	-	-	-	276	434	176	1.7	1.7	2.3	-	-	20.1	I	
	Taichung		P	38.3	-	-	-	845	948	490	1.3	1.3	1.2	-	-	28.2	I	
	llan		iP	41.2	-	-	-	225	- 320	+ 115	1.8	1.8	1.5	-	-	26.2	I	
	Penghu		P	42.3	-	-	-	1550	1500	-	2.7	2.4	-	-	-	26.6	O	
	Hsinchu		eP	42.6	-	-	-	-	-	-	-	-	-	-	-	31.0	O	
	Taipei		P	42.8	-	-	-	215	-	-	1.5	-	-	-	-	32.7	O	
5	Taichung	22	eP	10 16 52.4	-	-	-	-	-	-	-	-	-	-	-	-	0	Burma-Pakistan border. (d)
	Tawu			55.5	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Taitung			55.8	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Hsinkong			55.8	-	-	-	-	-	-	-	-	-	-	8	36.0	O	
	Hengchun			17 00.0	-	-	-	-	-	-	-	-	-	-	-	-	0	
	llan			00.8	-	-	-	-	-	-	-	-	-	-	8	31.8	O	
	Hwalien			05.3	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Taipei			06.6	-	-	-	-	-	-	-	-	-	-	7	00.0	O	
	Tainan			41.8	-	-	-	-	-	-	-	-	-	-	-	-	0	
6	Hengchun	23	iP	10 15 41.1	- 2.2	- 2.2	-	-	-	-	-	-	-	-	-	40.7	O	18N. 120E. Near NW. of Luzon. Philippine 350Kms. S. of Hengchun (d)
	Tawu		P	46.5	-	-	-	-	-	-	-	-	-	-	-	43.3	O	
	Taitung		P	54.0	-	-	-	-	-	-	-	-	-	-	-	34.7	O	
	Hsinkong		eP	57.3	-	-	-	-	-	-	-	-	-	-	-	53.8	O	
	Alishan		eP	16 03.0	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Taichung		eP	06.6	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Hwalien		P	16.7	-	-	-	-	-	-	-	-	-	-	-	-	0	
	llan		eP	24.5	-	-	-	-	-	-	-	-	-	-	1	05.0	O	
	Taipei		eP	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tainan		eP	59.0	-	-	-	-	-	-	-	-	-	-	-	48.1	O	
7	Alishan	27	iP	00 38 02.3	- 24.4	+ 21.1	- 30.5	134	183	-	-	-	-	-	-	09.5	O	23.1N. 121.3E. Near Hsinkong. (s)
	llan		eP	26.0	-	-	-	-	-	-	-	-	-	-	-	12.6	O	
	Hsinkong		iP	50.4	- 1.1	+ 12.3	+ 25	428	413	364	1.2	1.2	1.1	-	-	02.7	III	
	Taitung		P	55.4	- 5.2	- 1.2	+ 250.5	+ 288	+ 256	-	1.9	1.7	-	-	-	06.8	O	



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	s	m		
				h.	m.	s.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s		
7	Tainan	27	P	00	39	07.5	—	—	—	—	—	—	—	—	—	—	—	14.0	I
	Hengchun					10.4	—	—	—	—	—	—	—	—	—	—	—	17.4	O
	Kiotsing					10.8	—	—	—	—	—	—	—	—	—	—	—	10.5	O
	Taichung					12.8	—	—	—	—	—	—	—	—	—	—	—	16.2	O
	Hsinchu					22.0	—	—	—	—	—	—	—	—	—	—	—	19.1	O
	Tawu					01.3	—	—	—	—	—	—	—	—	—	—	—	09.7	O
	Hualien					06.0	—	—	—	207	154	—	1.5	1.5	—	—	—	15.0	I
	Taipei					26.6	—	—	—	—	—	—	—	—	—	—	—	25.5	—





# 地震季報

第五卷 第二期

中華民國四十七年四、五、六月

## THE SEISMOLOGICAL BULLETIN

OF

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China.



## GENERAL ASPECT OF EARTHQUAKES

April to June, 1958.

In April, the number of earthquakes was one hundred and thirty one, among them seven were classified as felt earthquakes and the rest were unfelt ones. one small felt area earthquake happened in this month and the local earthquakes were six.

Ten distant earthquakes were recorded in Taiwan, three of their epicenters were located near 35 N. 150 E., one near Naha Island, and the rest was uncertain.

In May one hundred and fifty earthquakes were recorded. The total number has a slight increase in comparison to the last month. Among them ten were classified as felt earthquakes and the remains were unfelt ones. Two of them were classified as small felt area earthquakes and eight were classified as local ones.

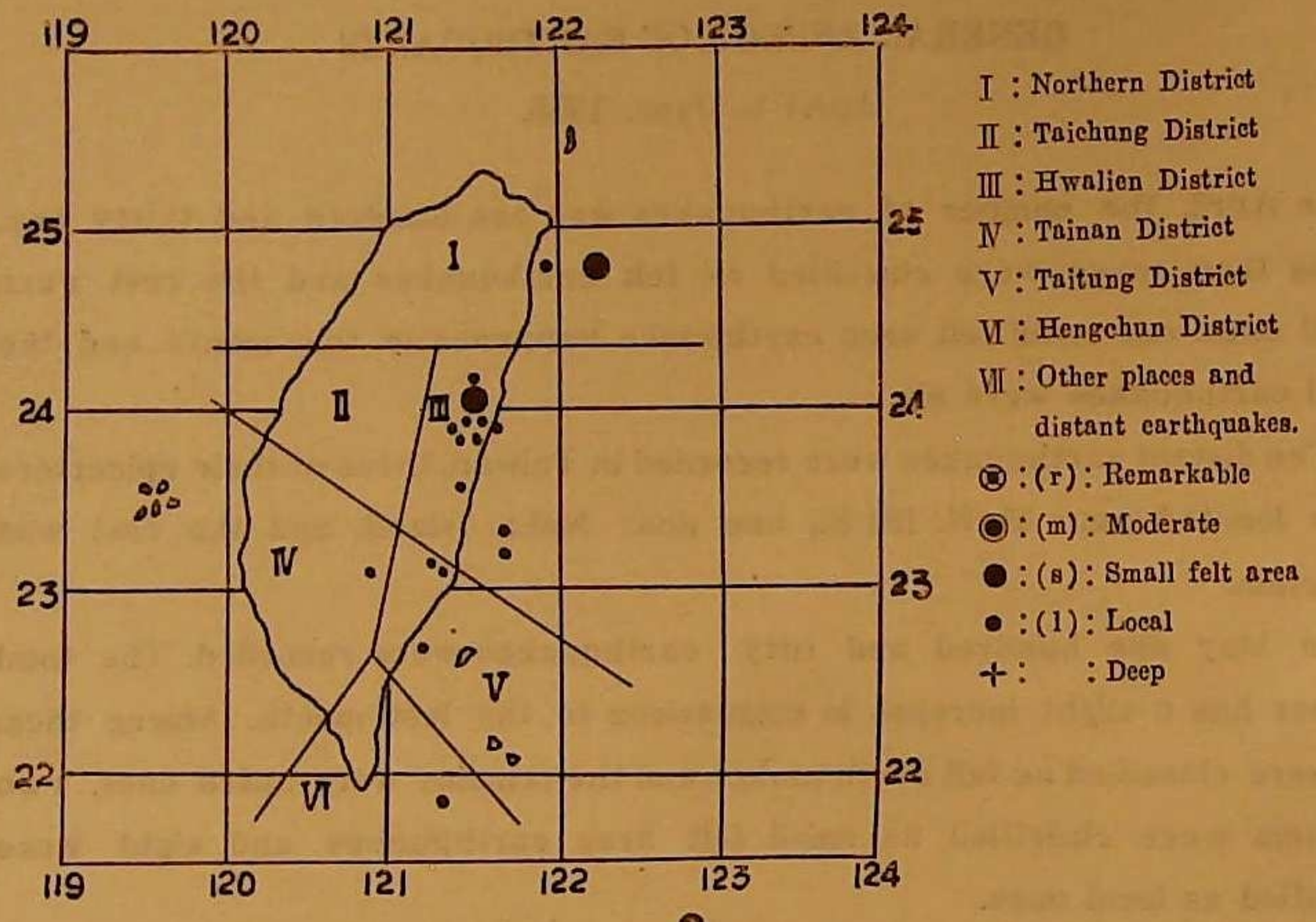
Two distant earthquakes were recorded at our stations in this month and their epicenters were unknown.

In June, ninety eight earthquakes were occurred in Taiwan, it has a decrease in comparison to the former months, among them two were classified as local felt earthquakes, and the rest were unfelt earthquakes.

Four distant earthquakes were recorded in this month, one of their epicenters was located near Ryukyu, and the rest was unknown.



Epicenters of Felt Earthquakes in April to June, 1958



Number of earthquakes classified according to its' magnitudes and Districts, April to June, 1958

District	Number of felt earthquakes					Number of unfelt earthquakes	Total
	Remarkable	Moderate	Small felt area	Local	Total		
Northern District	—	—	1	1	2	39	41
Taichung "	—	—	—	—	—	10	10
Hwalien "	—	—	1	10	11	117	128
Tainan "	—	—	—	1	1	3	4
Taitung "	—	—	—	2	2	123	125
Hengchun "	—	—	1	2	3	54	57
Other places "	—	—	—	—	—	16	16
Total	—	—	3	16	19	362	381

Felt Earthquakes in the month of April to June, 1958.

No.	Month	P. M. T.			Magni- tude	Epicenter	Latitude	Longitude	Depth.
		(G.	(G.	(G.					
31	Apr.	02	23	35	1				
32	"	10	13	18	1				
33	"	12	03	51	1			20	
34	"	17	12	50	1			20	
35	"	21	03	11	1				
36	"	21	05	32	s	24	121	10	
37	"	30	19	47	1				
38	May.	01	16	14	1			60	
39	"	05	08	04	1				
40	"	10	19	03	1			10	
41	"	13	22	08	1			0	
42	"	20	04	44	s	21	122.8	80	
43	"	22	09	43	1				
44	"	24	09	52	1				
45	"	30	16	12	s	25	122.1	80	
46	"	31	11	12	1				
47	"	31	13	16	1				
48	June.	06	15	08	1				
49	"	18	22	46	1				

Unfelt Earthquakes in the month of April To June, 1958.

No.	Month	P. M. T.			Epicenter	No.	Month	P. M. T.			Epicenter
		(G.	(G.	(G.				(G.	(G.	(G.	
		d.	h.	m.		337	"	05	00	13	"
328	Mar.	30	19	58	64km. NE. of Ilan.	338	"	05	02	35	"
329	April	01	12	02	Near Hsinkong.	339	"	05	03	09	Near Hsinkong.
330	"	02	21	40	"	340	"	05	05	14	Near Hengchun.
331	"	03	04	36	Near Alishan.	341	"	05	07	28	Near Hwalien.
332	"	03	13	52	Near Hsikhong.	342	"	05	12	52	"
333	"	04	21	37	Northern District.	343	"	05	21	50	Near Hsinkong.
334	"	04	21	33	Near Hsinkong.	344	"	05	23	05	Near Hwalien.
335	"	04	23	48	Near Hwalien.	345	"	06	08	50	"
336	"	05	00	04	"	346	"	06	11	01	35km. SSE. of Hwalien.



No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
347	April	07	05	31		381	"	13	02	52	Near Hengchun.
348	"	07	15	41		382	"	13	04	13	Near Hwalien
349	"	07	18	10		383	"	13	04	57	Near Hsinkong.
350	"	07	18	36		384	"	13	12	37	Distant.
351	"	07	18	44		385	"	14	00	26	Near Hengchun.
352	"	07	18	55		386	"	14	12	27	Near Hsinkong.
353	"	07	19	19		387	"	14	15	57	"
354	"	07	20	29		388	"	14	16	06	"
355	"	07	20	31		389	"	14	21	22	Hwalien District.
356	"	07	21	10		390	"	14	22	54	Near Hwalien.
357	"	07	21	18		391	"	15	02	01	"
358	"	07	21	26		392	"	15	10	02	Hengchun. District.
359	"	07	22	09		393	"	16	01	47	Near Hwalien.
360	"	08	06	10		394	"	16	03	47	49km. ESE. of Tiatung.
361	"	08	12	23		395	"	16	06	27	Near Hsinkong.
362	"	08	18	10		396	"	16	12	14	135km. ENE. of Hsinkong.
363	"	08	18	20		397	"	16	13	38	Near Hengchun.
364	"	09	06	37		398	"	16	14	12	"
365	"	09	13	47		399	"	17	01	48	Near Hsinkong.
366	"	09	22	39		400	"	17	09	10	Near Hwalien.
367	"	10	00	26		401	"	17	11	20	"
368	"	10	01	19		402	"	18	01	00	"
369	"	10	07	29		403	"	19	13	32	Hwalien District.
370	"	10	09	30		404	"	19	14	21	"
371	"	10	12	03		405	"	19	17	15	Near Hwalien.
372	"	11	01	03		406	"	19	18	44	"
373	"	11	01	08		407	"	19	20	18	"
374	"	11	05	02		408	"	19	22	10	Taitung District.
375	"	11	09	00		409	"	20	01	57	Near Hsinkong.
376	"	11	23	18		410	"	20	12	58	Hengchun. District.
377	"	11	23	33		411	"	20	23	37	Near Hsinkong.
378	"	12	07	58		412	"	21	00	45	Hwalien District.
379	"	12	13	26		413	"	21	13	22	49km. NE. of Hwalien.
380	"	12	17	10		414	"	21	18	54	Hwalien District.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
415	"	21	20	02		449	"	29	15	57	Near Hsinkong.
416	"	21	22	43		450	"	30	09	28	"
417	"	21	23	40		451	"	30	16	19	"
418	"	22	01	44		452	"	30	21	30	Northern District.
419	"	23	00	49		453	May	01	00	39	Tainan District.
420	"	23	08	09		454	"	01	00	47	Hengchung District.
421	"	23	08	36		455	"	01	02	54	Northern District.
422	"	23	16	02		456	"	01	02	57	"
423	"	24	00	24		457	"	01	04	09	Hwalien District.
424	"	24	00	42		458	"	01	04	19	Northern District.
425	"	24	01	14		459	"	01	05	33	"
426	"	24	07	48		460	"	01	06	32	"
427	"	24	09	47		461	"	01	07	13	Hengchun District.
428	"	24	11	52		462	"	01	12	41	"
429	"	24	13	22		463	"	01	13	14	"
430	"	24	14	02		464	"	01	13	30	Near Hengchun.
431	"	24	16	04		465	"	01	12	00	Near Hsinkong.
432	"	24	16	05		466	"	01	16	51	Hengchun. District.
433	"	24	16	06		467	"	02	05	38	Near Hwalien.
434	"	24	16	08		468	"	02	21	34	60km. NNE. of Ilan.
435	"	24	22	00		469	"	02	22	00	"
436	"	25	05	53		470	"	03	01	37	Hwalien District.
437	"	25	20	34		471	"	03	22	02	Near Hsinkong.
438	"	26	05	36		472	"	04	04	14	"
439	"	26	06	31		473	"	04	17	33	82km. NNE. of Ilan.
440	"	26	18	41		474	"	04	21	52	Near Hsinkong.
441	"	27	08	58		475	"	05	05	02	Near Hsinkong.
442	"	28	03	02		476	"	05	08	11	Near Hwalien.
443	"	28	16	18		477	"	05	10	34	Taitung District.
444	"	29	04	52		478	"	06	03	52	Near Hsinkong.
445	"	29	08	21		479	"	06	10	12	"
446	"	29	08	36		480	"	06	16	47	"
447	"	29	09	12		481	"	07	05	43	Near Hwalien.
448	"	29	09	41		482	"	07	10	22	"



No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
483	"	07	12	10	35km. SE. of Alishan.	516	"	15	17	47	"
484	"	07	16	03	Near Hsinkong.	517	"	15	18	47	"
485	"	08	05	27	Hengchung District.	518	"	15	19	53	Near Hsinkong.
486	"	08	06	22	Near Hsinkong.	519	"	16	02	21	Hwalien. District.
487	"	08	07	01	"	520	"	16	08	21	Near Hsinkong.
488	"	08	07	56	34km. SSW. of Hwalien.	521	"	16	12	09	Near Hwalien.
489	"	08	08	01	Near Hsinkong.	522	"	16	13	32	Near Hengchung.
490	"	08	10	26	"	523	"	16	14	53	Near Tawu.
491	"	08	15	15	Taitung District.	524	"	16	18	27	Near Hwalien.
492	"	03	16	38	Northern District.	525	"	17	02	59	25km. NE. of Hwalien.
493	"	08	19	41	"	526	"	17	03	56	Near Hwalien.
494	"	08	19	46	"	527	"	17	08	57	"
495	"	08	20	22	Near Hwalien.	528	"	17	19	35	82km. NNE. of Ilan.
496	"	08	23	08	Near Hsinkong.	529	"	19	10	59	20km. ENE. of Tawu.
497	"	09	25	06	Northern District.	530	"	19	11	03	Hwalien District.
498	"	09	19	07	Near Hsinkong.	531	"	19	11	14	Near Tawu.
499	"	10	11	09	Near Hengchung.	532	"	19	14	29	"
500	"	10	11	37	"	533	"	19	18	51	Hwalien District.
501	"	10	15	33	Hwalien District.	534	"	20	23	48	Near Hengchung.
502	"	11	01	27	Near Hsinkong.	535	"	21	04	25	48km. ESE. of Hengchung.
503	"	11	09	12	46km. SE. of Ilan.	536	"	21	05	01	Near Hengchung.
504	"	11	13	49	Near Hsinkong.	537	"	21	05	07	"
505	"	12	05	08	"	538	"	21	05	57	"
506	"	12	06	43	"	539	"	21	03	01	45km. ESE. of Hengchung.
507	"	12	20	37	"	540	"	21	08	05	Near Hwalien.
508	"	12	21	42	"	541	"	21	13	29	Near Hengchung.
509	"	13	23	02	Near Hwalien.	542	"	21	14	23	"
510	"	14	00	09	Near Hsinkong.	543	"	21	16	02	40km. East of Hengchung.
511	"	14	03	10	"	544	"	21	16	18	"
512	"	14	07	15	"	545	"	22	02	45	Hengchung. District.
513	"	14	17	23	"	546	"	22	05	52	36km. East of Hengchung.
514	"	14	21	05	"	547	"	22	11	41	30km. East of Hengchung.
515	"	15	16	11	Near Tawu	548	"	22	12	23	Near Hsinkong.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
549	May	22	21	00	Near Hsinkong.	583	"	30	13	25	Hwalien District.
550	"	23	04	13	"	584	"	30	20	10	Near Hsinkong.
551	"	23	06	26	"	585	"	30	21	52	"
552	"	23	08	20	"	586	"	30	22	20	"
553	"	23	14	23	Near Hwalien.	587	"	31	04	41	"
554	"	24	05	09	"	588	"	31	06	57	"
555	"	24	05	14	"	589	"	31	11	02	Northern District.
556	"	24	09	31	Near Hsinkong.	590	"	31	15	13	Near Hsinkong.
557	"	24	10	43	"	591	"	31	16	31	Near Hwalien.
558	"	25	17	18	40km. ESE of Hengchung.	592	"	31	19	43	Distant.
559	"	25	17	43	Distant.	593	June.	01	04	08	Near Hsinkong.
560	"	25	19	24	Near Hsinkong.	594	"	01	10	24	"
561	"	25	21	31	Hwalien. District.	595	"	01	11	40	35km. East of Hwalien.
562	"	25	22	38	Near Hwalien.	596	"	01	19	45	Near Hsinkong.
563	"	26	02	58	Near Hsinkong.	597	"	01	20	54	Hwalien District.
564	"	26	09	52	"	598	"	02	02	47	Hengchung. District.
565	"	26	23	25	Near Hwalien.	599	"	03	06	01	Near Hsinkong.
566	"	27	02	14	200km. E. of Ilan.	600	"	03	23	15	Tainan District.
567	"	27	02	17	Northern District.	601	"	04	10	04	Near Hwalien.
568	"	27	02	26	Near Hsinkong.	602	"	04	10	09	"
569	"	27	02	58	"	603	"	04	20	50	Near Hsinkong.
570	"	27	07	33	Near Taichung.	604	"	05	22	43	"
571	"	27	12	01	Nwalien District.	605	"	06	00	35	Hwalien District.
572	"	27	16	51	Near Hsinkong.	606	"	06	14	30	Near Hwalien.
573	"	27	23	43	"	707	"	06	20	32	Hengchung District.
574	"	28	01	44	"	708	"	06	22	51	Hwalien District.
575	"	28	04	11	"	609	"	07	09	11	"
576	"	28	17	45	75km. NE. of Taipei.	610	"	07	10	18	Hwalien District.
577	"	28	17	48	"	611	"	07	10	27	"
578	"	28	18	05	Northern. District.	612	"	07	13	59	"
579	"	28	18	47	Near Hengchung.	613	"	07	17	43	Near Hsinkong.
580	"	29	06	49	Near Hsinkong.	614	"	08	10	39	"
581	"	29	19	52	"	615	"	08	04	26	39km. ENE. of Hwalien
582	"	30	00	10	"	616	"	08	07	27	Near Hsinkong.







No.	Station	Date	Phase	P. (G. M. T.)			Initial Motion			Maximun Amplitude			Period			P-S	Intensity	Epicenter & Remarks				
				h.	m.	s.	N	E	Z	N	E	Z	N	E	Z				s	m	s	
4	Hsinkong	11	e	23	18	13.6	—	—	—	—	—	—	—	—	—	5	21.9	O Distant				
	Taitung		e			19.9	—	—	—	—	—	—	—	—	—	—	—	—				
	Hengchun		e			36.6	—	—	—	—	—	—	—	—	—	—	—	—				
5	Hsinkong	12	i	03	51	24.9	+	2.4	+	4.1	-	11.4	12.3	12.6	5.7	0.4	0.4	0.6	05.4	2	40km.ENE	
	Alishan		e			31.2	—	—	—	—	—	—	—	—	—	—	—	—	10.3	O	of Hsinkong	
	Taitung		P			32.4	—	—	—	—	—	—	43	46	10	—	1.7	—	11.6	O		
	Hwalien		P			34.4	—	—	—	—	—	—	76	86	187	1.0	1.0	1.8	08.3	I	h=20	
	Taichung		e			39.0	—	—	—	—	—	—	—	—	—	—	—	—	13.3	O	(1)	
	Tainan		e			40.7	—	—	—	—	—	—	—	—	—	—	—	—	20.0	O		
	Tawu		P			42.3	—	—	—	—	—	—	—	—	—	—	—	—	13.1	O		
	Ilan		e			44.5	—	—	—	—	—	—	—	—	—	—	—	—	18.1	O		
	Hengchun		P			46.5	—	—	—	—	—	—	—	—	—	—	—	—	19.4	O		
	Hsinchu		e			48.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	
	Taipei		e			51.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	
	Kaohsiung		e			52	03.1	—	—	—	—	—	—	—	—	—	—	—	—	—	O	
6	Ilan	12	P	13	26	28.8	—	—	—	—	—	—	99	100	—	3.1	3.9	—	13.5	O		
	Taipei		e			30.9	—	—	—	—	—	—	—	—	—	—	—	—	47.8	O	26.3N.	
	Hwalien		P			31.7	—	—	—	—	—	—	—	—	—	—	—	—	18.3	O	125.9 E.	
	Hsinkong		e			32.4	—	—	—	—	—	—	—	—	—	—	—	—	50.3	O	Naha Is.	
	Taitung		P			38.5	—	—	—	—	—	—	—	—	—	—	—	—	59.6	O	h-80	
	Alishan		e			38.7	—	—	—	—	—	—	—	—	—	—	—	—	53.9	O		
	Tawu		P			43.9	—	—	—	—	—	—	—	—	—	—	—	—	55.9	O		
	Taichung		e			44.1	—	—	—	—	—	—	—	—	—	—	—	—	44.3	O		
	Hengchun		e			47.4	—	—	—	—	—	—	91	86	—	1.9	1.3	—	05.2	O		
	Tainan		e			53.5	—	—	—	—	—	—	—	—	—	—	—	—	08.6	O		
	Kaohsiung		e			56.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	O	
Hsinchu		e			27	03.1	—	—	—	—	—	—	—	—	—	—	—	—	—	O		
7	Tawu	13	e	12	36	43.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Distant	
	Hsinkong		e			37	03.7	—	—	—	—	—	—	—	—	—	—	—	6	15.2	O	
	Taipei		e			43	08.7	—	—	—	—	—	—	—	—	—	—	—	8	0.0	O	
	Tainan		e			52	19.0	—	—	—	—	—	—	—	—	—	—	—	—	—	O	

No.	Station	Date	Phase	P. (G. M. T.)			Initial Motion			Maximun Amplitude			Period			P-S	Intensity	Epicenter & Remarks			
				h.	m.	s.	N	E	Z	N	E	Z	N	E	Z				s	m	s
8	Hwalien	21	i	05	32	09.0	+	13.5	-	86	+	?	7800	5900	1900	1.0	1.0	—	02.5	I	
	Penghu		P			12.8	—	—	—	—	—	—	—	—	—	—	—	—	24.5	O	24 N.
	Ilan		i			19.0	+	13.5	-	13.5	+	28.6	447	742	393	2.5	2.5	2.1	10.2	I	12 1/3 E.
	Taichung		i			20.2	-	6.0	+	69	-	91	471	431	295	3.1	2.5	2.7	10.8	I	Near
	Hsinkong		i			21.2	+	3.5	+	?	-	7.1	133	124	87	1.0	1.8	1.1	12.4	O	Hwalien
	Alishan		e			21.6	-	8.5	—	—	—	—	384	—	—	—	—	—	11.4	O	h-10
	Taipei		e			23.6	—	—	—	—	—	—	490	800	—	1.0	1.0	—	14.1	II	(s) 10
	Hsinchu		P			23.9	—	—	—	—	—	—	—	—	—	—	—	—	10.9	I	
	Taitung		P			28.0	-	1.2	-	2.4	-	—	131	195	—	2.2	1.7	—	29.8	O	
	Tainan		P			35.2	—	—	—	—	—	—	—	—	—	—	—	—	21.0	O	
Tawu		e			37.5	+	—	+	—	—	—	53	73	40	1.7	1.9	1.6	21.7	O		
Hengchun		P			43.8	—	—	—	—	—	—	142	107	—	1.6	1.6	—	29.5	O		

Seismological Data of Major Earthquakes Which Occurred in the Month of May, 1958

No.	Station	Date	Phase	P. (G. M. T.)			Initial Motion			Maximun Amplitude			Period			P-S	Intensity	Epicenter & Remark			
				h.	m.	s.	N	E	Z	N	E	Z	N	E	Z				s	m	s
1	Kaohsiung	21	e	04	44	47.8	—	—	—	—	—	—	—	—	—	—	—	—	18.2	O	
	Hwalien		P			49.3	—	—	—	—	—	—	—	—	—	—	—	—	35.2	O	20.9 N.
	Hengchun		P			53.6	-	7.6	+	7.1	-	133	—	—	—	—	—	—	32.1	II	122.8 E.
	Tawn		i			55.9	+	4.1	—	—	—	202	159	—	1.5	1.0	—	06.2	O	h-80	
	Hainkong		e			45	10.7	—	—	—	—	—	—	—	—	—	—	—	31.5	O	(s)
	Taitung		P			11.4	—	—	—	—	—	—	—	—	—	—	—	—	41.5	O	
	Alishan		e			17.5	—	—	—	—	—	—	—	—	—	—	—	—	35.2	O	
	Tainan		e			30.1	—	—	—	—	—	—	—	—	—	—	—	—	34.0	O	
	Taichung		e			58.6	—	—	—	—	—	—	—	—	—	—	—	—	—	O	
	Ilan		e			46	13.8	—	—	—	—	—	—	—	—	—	—	—	28.1	O	
2	Taipei	25	e	17	43	18.2	—	—	—	—	—	—	—	—	—	—	—	3	25.0	O	Distant.
	Hwalien		P			24.7	—	—	—	—	—	—	—	—	—	—	—	—	—	O	
	Ilan		e			26.8	—	—	—	—	—	—	—	—	—	—	—	—	3	18.7	O









# 地震季報

第五卷 第三號

中華民國四十七年七、八、九月

## THE SEISMOLOGICAL BULLETIN

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for

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VOL. V, No. 3



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## GENERAL ASPECT OF EARTHQUAKES

July to September, 1958.

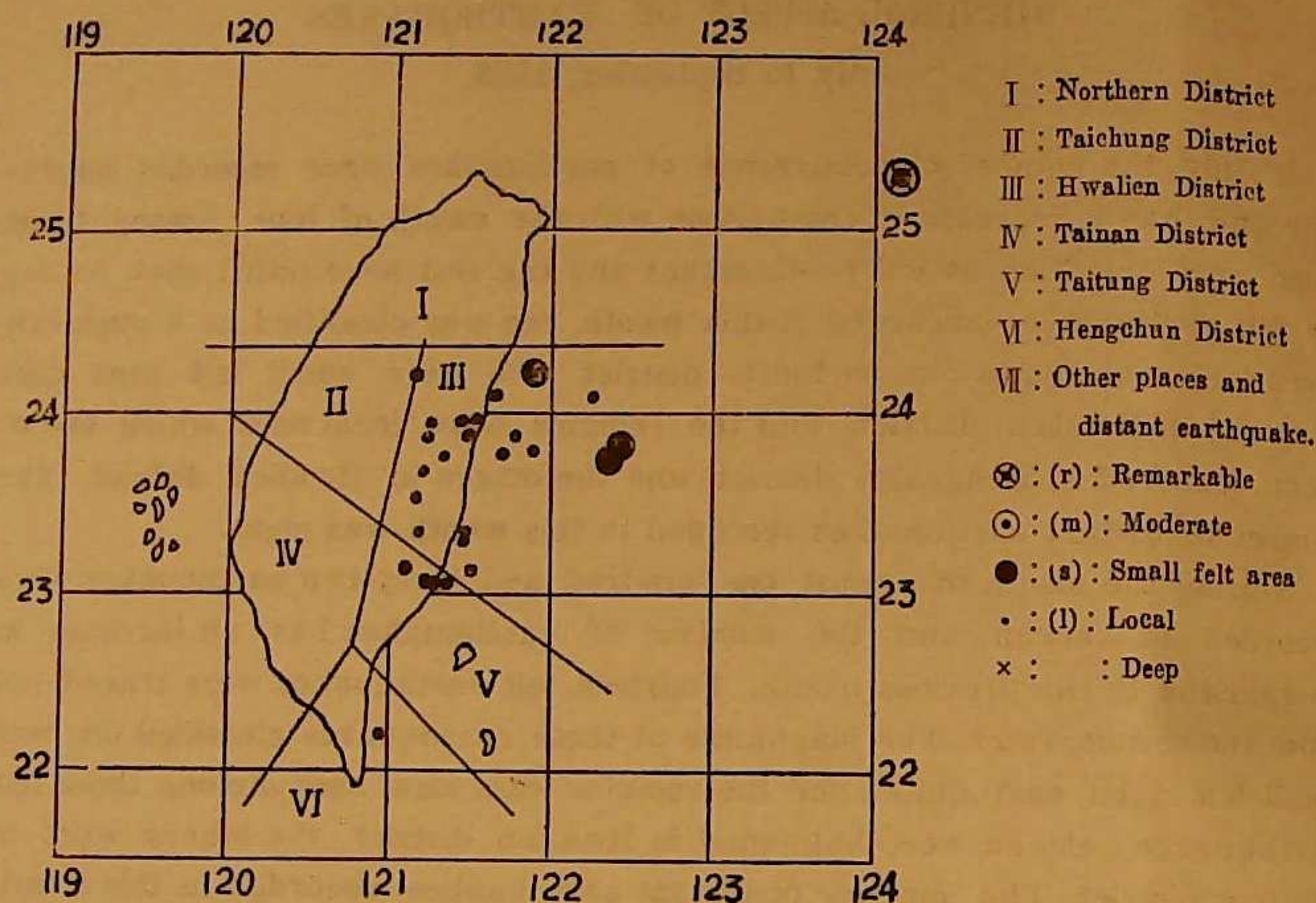
In July, the number of occurrence of earthquakes were recorded ninety-four and has a decrease in comparison with the month of June. Among them, seven were classified as felt earthquakes and the rest were unfelt ones. Among the felt earthquakes recorded in this month, one was classified as a moderate earthquake occurred in northern district, two were small felt area ones occurred in Hwalien district, and the remains were local ones which one of them occurred in Hengchun district and the others in Hwalien district. The number of distant earthquakes recorded in this month was eight.

During the month of August, one hundred and forty-two earthquakes were recorded in Taiwan and the number of earthquakes has an increase in comparison to the previous month. Fourteen felt earthquakes were traced out from the seismograms. The magnitude of these earthquakes classified one was small felt area earthquake and the remains were local ones. Among these felt earthquakes, eleven were happened in Hwalien district, the others were in Taitung district. The number of distant earthquakes recorded in this month was eleven.

As in the month of September, the number of occurrence of earthquakes has a decrease to fifty-six. The earthquakes occurred in the month of August was recorded up to a figure of eighty-six. Six of them was classified as felt earthquakes and the remains were unfelt ones. The felt earthquakes in this month were all classified as local ones. The epicenters of these felt earthquakes were located five in Hwalien and one in Taitung district. The number of distant earthquakes recorded in this month was nine.



## Epicenters of Felt Earthquakes in July to September, 1958.



Number of earthquakes classified according to its magnitude and districts July to September 1958.

Districts	Classification		Number of felt earthquakes					Number of unfelt earthquakes	Total
	Magnitudes		Remarkable	Moderate	Small felt area	Local	Total		
Northern District			1	—	—	—	1	61	62
Taichung "			—	—	—	—	—	7	7
Hwalien "			—	—	3	18	21	86	107
Tainan "			—	—	—	—	—	2	2
Taitung "			—	—	—	4	4	85	89
Hengchun "			—	—	—	1	1	26	27
Other places "			—	—	—	—	—	28	28
Total			1	—	3	23	27	294	322

## Felt Earthquakes in the month of July to September, 1958.

No.	Month	P. (G. M. T.)			Magnitude	Epicenter	Latitude		Longitude	Depth. (kms)
		d.	h.	m.			N.	E.		
50	July	4	20	54	1	Near Hwalien	—	—	—	—
1	"	6	19	50	s	90km ESE. of Hwalien.	23.7	122.4	20	—
2	"	11	02	08	1	38km ESE. of Hwalien.	—	—	—	—
3	"	14	15	55	1	27km ENE. of Hengchun.	—	—	—	0~10
4	"	17	06	30	s	45km SSE. of Ilan	24.4	121.9	40	—
5	"	18	21	38	r	255km E. of Ta'pei.	25.2	124.1	100	—
6	"	31	04	02	1	46km NW. of Hwalien.	—	—	—	—
7	Aug.	2	01	08	1	Near Hsinkong.	—	—	—	—
8	"	2	01	14	1	Near Hwalien.	—	—	—	—
9	"	5	02	58	1	31km SW. of Hwalien.	—	—	—	0~10
60	"	5	04	03	1	26km WSW. of Hwalien.	—	—	—	20
1	"	7	10	57	1	28km ESE. of Hwalien.	—	—	—	30
2	"	8	01	37	1	10km NNE. of Hwalien.	—	—	—	20
3	"	8	21	22	1	46km SW. of Hwalien.	—	—	—	0~10
4	"	13	17	47	1	20km E. of Hsinkong.	—	—	—	0~10
5	"	16	01	22	1	40km NNE. of Hsinkong.	—	—	—	0~10
6	"	17	15	22	1	20km SW. of Hwalien.	—	—	—	0~10
7	"	19	23	20	1	20km WNW. of of Hsinkong.	—	—	—	0~10
8	"	20	08	46	s	77km ESE. of Hwalien.	23.9	122.3	10	—
9	"	23	10	08	1	Near Hsinkong.	—	—	—	—
70	"	28	23	24	1	70km ENE. of Hwalien.	—	—	—	20
1	Sept.	1	22	04	1	Near Hsinkong.	—	—	—	—
2	"	10	17	34	1	20km NNW. of Hsinkong.	—	—	—	0~10
3	"	11	06	52	1	15km NE. of Hsinkong.	—	—	—	—
4	"	15	11	58	1	21km WNW. of Hwalien.	—	—	—	20
5	"	27	18	13	1	20km SE. of Hwalien.	—	—	—	40
6	"	30	03	12	1	Near Hwalien.	—	—	—	—



## Unfelt Earthquakes in the month of July to September 1958.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
692	July.	1	12	42	Near Hsinkong.	725	"	17	05	40	Near Hwalien.
693	"	1	22	04	"	726	"	17	06	37	Hwalien District.
694	"	1	22	57	Hwalien district.	727	"	17	06	56	Tainan District.
695	"	1	23	40	"	728	"	17	11	08	Hwalien District.
696	"	2	10	13	Near Hwalien.	729	"	17	11	22	"
697	"	2	13	35	"	730	"	17	19	15	Near Hsinkong.
698	"	3	02	42	"	731	"	18	18	41	237km ESE. of Ilan.
699	"	3	23	35	Near Hsinkong.	732	"	19	03	15	Hwalien District.
700	"	4	01	45	Northern district.	733	"	19	03	23	"
701	"	4	03	35	Hengchun District.	734	"	19	06	36	Near of Japanese Sea.
702	"	4	18	38	Near the NE. of Celebes Islands.	735	"	19	17	46	Hwalien District.
703	"	4	22	44	Near Hsinkong.	736	"	17	18	22	Near E. of Celebes Island.
704	"	4	23	08	"	737	"	20	20	13	35km ENE. of Hengchun.
705	"	5	01	34	Near Hwalien.	738	"	21	07	12	Northern District.
706	"	5	11	38	"	739	"	21	07	31	44 $\frac{1}{2}$ ° N. 147 $\frac{1}{2}$ ° E (d)
707	"	5	13	09	"	740	"	23	08	58	(d) Faint.
708	"	5	16	34	Near Hsinkong.	741	"	23	10	31	(d) 31°N, 142°E.
709	"	6	00	40	"	742	"	23	19	43	100km ESE. of Hwalien.
710	"	6	01	59	"	743	"	23	22	22	Near Hwalien.
711	"	8	07	15	"	744	"	24	03	07	Northern District.
712	"	8	09	54	"	745	"	24	13	56	Near Hwalien.
713	"	8	15	39	"	746	"	24	17	41	"
714	"	9	04	07	136km ESE. of Ilan.	747	"	25	02	33	Near Hsinkong.
715	"	10	00	32	40km ESE. of Hengchun.	748	"	26	01	37	Near Hwalien.
716	"	10	06	27	Gulf of Alaska.	749	"	26	01	43	"
717	"	10	11	06	Hwalien District.	750	"	26	05	47	20km S. of Hwalien.
718	"	10	13	13	Near Hwalien.	751	"	26	15	38	Near Hengchun.
719	"	11	05	10	Near Hsinkong.	752	"	26	16	21	"
720	"	12	11	58	Near Tawu.	753	"	26	17	56	(d) 69°W, 13 $\frac{1}{2}$ °S.
721	"	12	12	00	Hengchun. District.	754	"	26	18	45	Northern District.
722	"	13	08	38	Near Hsinkong.	755	"	26	20	28	Taitung District.
723	"	13	15	15	Hengchun District.	756	"	26	20	31	26km N. of Hwalien.
724	"	16	21	00	40km NE. of Hwalien.	757	"	26	20	47	Hwalien District.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
758	July	26	21	28	Northern District.	792	"	3	16	30	Hwalien District
759	"	27	00	12	Near Hwalien.	793	"	3	21	34	"
760	"	27	05	38	Near Hsinkong.	794	"	4	02	19	31km NNE. of Hsinkong.
761	"	27	18	50	"	795	"	4	02	35	Near Hsinkong.
762	"	28	08	19	Near Taipei.	796	"	4	02	39	"
763	"	29	05	31	Near Hsinkong.	797	"	4	04	18	6°S 130° E.
764	"	29	09	19	Hengchun District.	798	"	4	23	41	Near Hsinkong.
765	"	29	14	26	98km E. of Chilung.	799	"	4	23	50	"
766	"	29	18	08	Northern District.	800	"	5	00	11	"
767	"	29	18	10	"	801	"	5	04	34	Near Hwalien.
768	"	29	18	22	"	802	"	5	06	54	"
769	"	29	18	48	"	803	"	5	07	55	Hwalien District.
770	"	29	23	47	Near Hsinkong.	804	"	5	08	12	"
771	"	30	04	13	Near Hwalien.	805	"	5	09	45	29km SSW. of Hwalien.
772	"	30	04	51	"	806	"	5	17	32	Near Hwalien.
773	"	30	09	59	Near Hsinkong.	807	"	6	00	45	36km SSW. of Hwalien.
774	"	30	17	40	"	808	"	6	01	23	Hengchun District.
775	"	31	11	54	49km ENE. of Ilan.	809	"	6	18	27	Near Hsinkong.
776	"	31	12	15	32km SSE. of Hsinchu.	810	"	6	21	21	Northern District.
777	"	31	14	34	Near Taipei.	811	"	6	23	57	Hwalien District.
778	"	31	22	27	50km N. of Hwalien.	812	"	7	20	13	Near Hsinkong
779	Aug.	1	07	10	Northern. District.	813	"	8	01	29	"
780	"	1	15	30	Hwalien District.	814	"	8	08	46	Near Hengchun.
781	"	1	17	53	Northern District.	815	"	8	12	52	80km E. of Taipei.
782	"	1	19	01	21km SSW. of Alishan.	816	"	8	21	31	Hwalien District.
783	"	1	19	36	45km SE. of Ilan.	817	"	8	21	57	Northern district.
784	"	1	21	14	40km SE. of Ilan.	818	"	8	22	45	"
785	"	2	08	33	Near Alishan.	819	"	9	01	54	near Hwalien.
786	"	2	19	30	120km ENE. of Hwalien.	820	"	10	22	00	Northern district.
787	"	2	20	34	Near Taipei.	821	"	10	22	45	Near Hsinkong
788	"	3	01	17	Hwalien District.	822	"	11	08	12	Near Hwalien.
789	"	3	01	56	Near Hsinkong.	823	"	11	21	57	Northern District.
790	"	3	06	37	70km ESE. of Hengchun.	824	"	11	22	00	Near Taipei.
791	"	3	11	34	Northern District.	825	"	11	22	08	Northern District.



No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
826	Aug.	12	10	16	Near Hsinkong	860	"	19	15	17	Northern District.
827	"	12	15	07	"	861	"	19	18	11	Faint (d)
828	"	12	16	07	"	862	"	19	20	37	Near Hsinkong.
829	"	12	19	30	0°, 126½° E.	863	"	19	22	01	Hwalien District.
830	"	12	21	46	Hengchun District.	864	"	19	23	26	Near Hsinkong.
831	"	13	01	45	Hwalien District.	865	"	20	00	30	"
832	"	13	03	09	Northern District.	866	"	20	01	12	Hwalien District.
833	"	13	03	55	Hengchun District.	867	"	20	01	36	"
834	"	13	03	59	"	868	"	20	03	50	14°S, 167°E. (d)
835	"	13	18	29	Near Hsinkong.	869	"	20	16	17	Northern District.
836	"	14	02	50	Taitung District.	870	"	20	16	46	Hwalien District.
837	"	14	06	43	P-faint (d) e-cl=40m 08s.	871	"	21	00	54	Near Hsinkong.
838	"	14	08	51	Near Hsinkong.	872	"	21	12	01	Northern District.
839	"	14	15	04	52°N 175°W. Faint.	873	"	21	21	10	Faint (d)
840	"	15	20	03	53°N 160°E. (d)	874	"	21	22	10	Hwalien district.
841	"	15	22	33	1½°N, 125°E. (d)	875	"	21	00	55	Near Hsinkong.
842	"	16	03	15	Hengchun District.	876	"	21	07	01	"
843	"	16	03	16	Near Hsinkong.	877	"	23	07	53	Hwalien District.
844	"	16	09	45	Northern District.	878	"	23	08	08	Hengchun District.
845	"	16	11	08	Hwalien District.	879	"	23	11	08	Northern District.
846	"	16	12	36	Near Hsinkong.	880	"	23	12	14	30km SSE. of Ilan.
847	"	16	13	26	Hwalien District.	881	"	24	15	59	Near Hwalien.
848	"	16	19	24	34½°N, 48°E. (d)	882	"	24	16	30	"
849	"	16	19	33	Hwalien District.	883	"	24	16	41	Near Hsinkong.
850	"	17	16	13	Near Tawu.	884	"	24	16	56	Hwalien District.
851	"	17	18	08	3°S, 145½°E. (d)	885	"	25	06	14	Near Hengchun.
852	"	18	04	51	Near Hsinkong.	886	"	26	18	08	Hengchun District.
853	"	18	08	27	38km SSW. of Hwalien.	887	"	27	03	47	Hwalien District.
854	"	18	09	22	Taitung District.	888	"	27	07	08	Near Hsinkong.
855	"	18	10	29	Hwalien District.	889	"	27	08	26	Taitung District.
856	"	18	23	07	Near Hsinkong.	890	"	27	09	36	Near Hsinkong.
857	"	19	09	21	"	891	"	27	10	05	Near Hwalien.
858	"	19	10	44	"	892	"	27	13	58	25km SSW. of Hwalien.
859	"	19	10	51	Hengchun District.	893	"	27	15	08	35km ENE. of Alishan.

No.	Month	P. (G. M. T.)			Epicenter	No.	Month	P. (G. M. T.)			Epicenter
		d.	h.	m.				d.	h.	m.	
894	Aug.	27	19	31	37km ENE. of Hengchun.	927	"	11	18	09	Taichung District.
895	"	28	10	17	Near Hsinkong.	928	"	12	01	43	Northern District.
896	"	28	18	57	"	929	"	12	03	12	"
897	"	29	06	50	Near Hwalien.	930	"	12	14	49	Northern District.
898	"	29	08	24	Hengchun District.	931	"	13	00	09	14km NNE. of Yushan.
899	"	29	15	41	Near Hsinkong.	932	"	13	02	59	Northern District.
900	"	29	20	44	"	933	"	13	05	28	"
901	"	30	13	37	Northern District.	934	"	13	06	28	Taitung District.
902	"	30	18	49	25km SE. of Ilan.	935	"	13	21	59	Northern District.
903	"	30	18	52	"	936	"	14	04	30	Faint (d)
904	"	30	22	02	Near Hwalien.	937	"	14	10	22	Hwalien District.
905	"	31	07	44	Near Hsinkong.	938	"	14	11	11	Taitung District.
906	"	31	12	42	"	939	"	14	14	28	56½°N, 120½°E
907	"	31	18	21	60km ENE. of Ilan.	940	"	14	15	54	26km ENE. of Ilan.
908	Sep.	1	13	44	Northern District.	941	"	14	16	35	Northern District.
909	"	1	15	32	Near Sea of Japan. 38°N, 134½°E.	942	"	15	19	43	Near Hwalien.
910	"	1	17	19	62km ENE. of Hwalien.	943	"	15	19	49	2½°N, 120½°E.
911	"	1	22	06	Near Hsinkong.	944	"	15	19	56	" After Shock.
912	"	2	20	52	Near Hwalien.	945	"	16	03	30	25km SSW. of Hwalien.
913	"	3	08	09	Off NE. Coast of Honshu Japan e-F=24m 30s 40½°N, 143E.	946	"	16	11	02	Northern District.
914	"	4	11	19	Near Hsinkong.	947	"	16	11	35	"
915	"	5	04	47	Taitung District.	948	"	19	00	01	25km SSE. of Ilan.
916	"	5	15	52	Near Hsinkong.	949	"	20	05	19	Near Hwalien.
917	"	6	13	13	Northern District.	950	"	20	05	24	20½°N, 105°E.
918	"	6	15	25	"	951	"	20	06	59	70km ESE, of Hwalien.
919	"	6	21	43	Near Hwalien.	952	"	20	11	38	Hengchun District.
920	"	7	06	04	Near Hsinkong.	953	"	20	17	16	6½°S, 154½°E.
921	"	7	16	33	"	954	"	20	23	38	Near Hsinkong.
922	"	8	03	03	33½°N, 131½°E.	955	"	21	03	48	"
923	"	8	14	56	(d)	956	"	21	05	25	Taichung District.
924	"	8	20	53	Near Alishan.	957	"	21	07	00	"
925	"	10	05	33	20km SW. of Taitung.	958	"	21	12	29	Near Hsinkong.
926	"	11	07	18	Hengchun District.	959	"	22	07	49	"
						960	"	22	08	42	Hengchun District.















No.	Station	Date	Phase	P.			Initial Motion			Maximun Amplitude			Period			P~S	Intensity	Epicenter & Remarks
				(G. M. T.)	N	E	Z	N	E	Z	N	E	Z	N	E			
				h. m. s.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s		
10	Tawu	16	P	01 22 35.2	-	-	-	-	-	-	-	-	-	-	-	18.3	0	
	Kaohsiung		ep	01 22 35.5	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Hengohun		P	01 22 36.8	-	-	-	-	-	-	-	-	-	-	-	18.8	0	
	Taipei		P	01 22 39.2	-	-	-	-	-	-	-	-	-	-	-	16.1	0	
11	Taipei	16	P	19 24 17.9	-	-	-	-	-	-	-	-	-	-	08 36.9	0	U.S.C.G.S. : 34 $\frac{1}{2}$ °N, 48°E. (d)	
	Hengohun		P	19 24 23.8	-	-	-	-	-	-	-	-	-	-	08 42.6	0		
	Hsinkong		ep	19 24 30.0	-	-	-	-	-	-	-	-	-	-	08 31.4	0		
	Hwalien		P	19 24 33.0	-	-	-	-	-	-	-	-	-	-	-	0		
	Tawu		ep	19 24 33.1	-	-	-	-	-	-	-	-	-	-	08 40.6	0		
12	Hengohun	17	P	18 08 11.6	-	-	-	-	-	-	-	-	-	-	-	0	U.S.C.G.S. : 3°S, 145 $\frac{1}{2}$ °E. (d)	
	Hwalien		P	18 08 18.7	-	-	-	-	-	-	-	-	-	-	-	0		
	Taipei		P	18 08 21.8	-	-	-	-	-	-	-	-	-	-	05 52.2	0		
	Hsinkong		P	18 08	-	-	-	-	-	-	-	-	-	-	-	0		
13	Taipei	19	ep	18 11 58.0	-	-	-	-	-	-	-	-	-	-	-	0	Faint (d)	
14	Hsinkong	20	ep	03 50 07.3	-	-	-	-	-	-	-	-	-	-	08 00.0	0	U.S.C.G.S. : 14°S, 167°E.	
	Hwalien		P	03 50 15.0	-	-	-	-	-	-	-	-	-	-	-	0		
	Taipei		op	03 50 26.4	-	-	-	-	-	-	-	-	-	-	07 50.7	0		
15	Hwalien	20	ip	08 46 26.4	-10.0	-21.0	+24.0	454	536	86	2.1	2.1	1.1	10.4	0	77km ESE. of Hwalien 122°3E 23°9N (H=10)(s)		
	Ilan		ip	08 46 28.6	-12.0	+12.0	-27.0	-	199	603	-	2.0	1.7	14.0	II			
	Hsinkong		ip	08 46 33.2	+5.7	+7.9	-7.0	68	128	73	1.8	3.0	1.9	12.0	I			
	Taipei		ip	08 46 34.8	+62.0	-34.0	+	-	-	-	-	-	-	18.0	I			
	Alishan		ep	08 46 37.6	-	-	-	199	160	-	-	-	-	17.9	I			
	Tawu		P	08 46 39.3	-	-	-	-	-	-	-	-	-	18.3	0			
	Taitung		P	08 46 39.4	+2.3	+1.2	-	144	167	-	2.7	2.1	-	19.9	0			
	Hsinchu		ep	08 46 39.5	-	-	-	630	680	-	1.7	1.8	-	20.8	I			
	Taichung		ip	08 46 39.7	+2.0	-9.0	+27.0	548	632	247	2.2	3.3	3.0	21.0	I			
	Yushan		ep	08 46 40.5	-	-	-	-	-	-	-	-	-	16.3	0			
	Tainan		ep	08 46 47.7	-	-	-	-	-	-	-	-	-	28.7	0			
	Hengohun		ip	08 46 50.7	-2.6	-3.9	-38.0	133	125	-	1.6	1.6	-	32.4	0			
	Penghu		ep	08 46 12.2	-	-	-	-	-	-	-	-	-	22.2	0			

No.	Station	Date	Phase	P.			Initial Motion			Maximun Amplitude			Period			P~S	Intensity	Epicenter & Remarks
				(G. M. T.)	N	E	Z	N	E	Z	N	E	Z	N	E			
				h. m. s.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s		
16	Hwalien	21	P	21 10 27.6	-	-	-	-	-	-	-	-	-	-	-	-	0	Faint (d)
	Taipei		ep	21 10 30.1	-	-	-	-	-	-	-	-	-	-	-	-	0	

Major Earthquakes which Occurred in September 1958.

No.	Station	Date	Phase	P.			Initial Motion			Maximun Amplitude			Period			P~S	Intensity	Epicenter & Remarks
				(G. M. T.)	N	E	X	N	E	Z	N	E	Z	N	E			
				h. m. s.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s		
1	Hsinkong	1	P	15 32 47.3	-	-	-	-	-	-	-	-	-	-	-	-	0	U.S.C.G.S. : 38°N, 134 $\frac{1}{2}$ °E. Near Sea of Japan (d)
	Ilan		ep	15 33 08.6	-	-	-	-	-	-	-	-	-	-	-	-03	00.1	0
	Taipei		P	15 33 10.3	-	-	-	-	-	-	-	-	-	-	-	-02	57.3	0
	Hwalien		ep	11 33 16.9	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Alishan		ep	15 33 23.0	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Hengohun		P	15 33 39.9	-	-	-	-	-	-	-	-	-	-	-	-	0	
2	Taipei	3	e	08 09 34.0	-	-	-	-	-	-	-	-	-	-	-	-	0	U.S.C.G.S. : 40 $\frac{1}{2}$ °N, 143°E. off NE. Coast of Honshu, Japan P Faint (d)
3	Taipei	8	ep	14 56 33.5	-	-	-	-	-	-	-	-	-	-	-	-	0	Faint (d) U.S.C.G.S. : 33 $\frac{1}{2}$ °N, 131 $\frac{1}{2}$ °E.
4	Hsinchu	10	ep	17 34 10.2	-	-	-	-	-	-	-	-	-	-	-	-	0	20km NNW, of Hsinkong (H=10) (I)
	Hsinkong		ip	17 34 34.4	+2.2	+3.3	-10.8	490	275	112	0.9	0.8	0.5	3.2	II			
	Alishan		ip	17 34 44.3	-1.9	+1.3	-	136	128	-	-	-	-	8.1	0			
	Taitung		P	17 34 44.3	-	-	-	156	200	-	1.4	1.2	-	8.1	0			
	Hwalien		ip	17 34 46.1	+2.0	+2.0	-	94	137	486	1.6	1.2	1.1	10.8	I			
	Yushan		ep	17 34 47.1	-	-	-	-	-	-	-	-	-	8.8	0			
	Tainan		ep	17 34 51.2	-	-	-	-	-	-	-	-	-	26.1	0			
	Taichung		P	17 34 54.8	-	-	-	-	-	-	-	-	-	14.4	0			
	Hengohun		P	17 34 58.0	-	-	-	-	-	-	-	-	-	19.6	0			
	Ilan		ep	17 35 04.7	-	-	-	-	-	-	-	-	-	18.1	0			
	Taipei		P	17 35 09.5	-	-	-	-	-	-	-	-	-	14.3	0			
5	Taipei	14	op	04 30 09.0	-	-	-	-	-	-	-	-	-	-	-	-	0	Faint (d)









# 地震季報

第五卷 第四號

中華民國四十七年十一月、十二月

## THE SEISMOLOGICAL BULLETIN

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## General Aspect of Earthquakes

October to December, 1958.

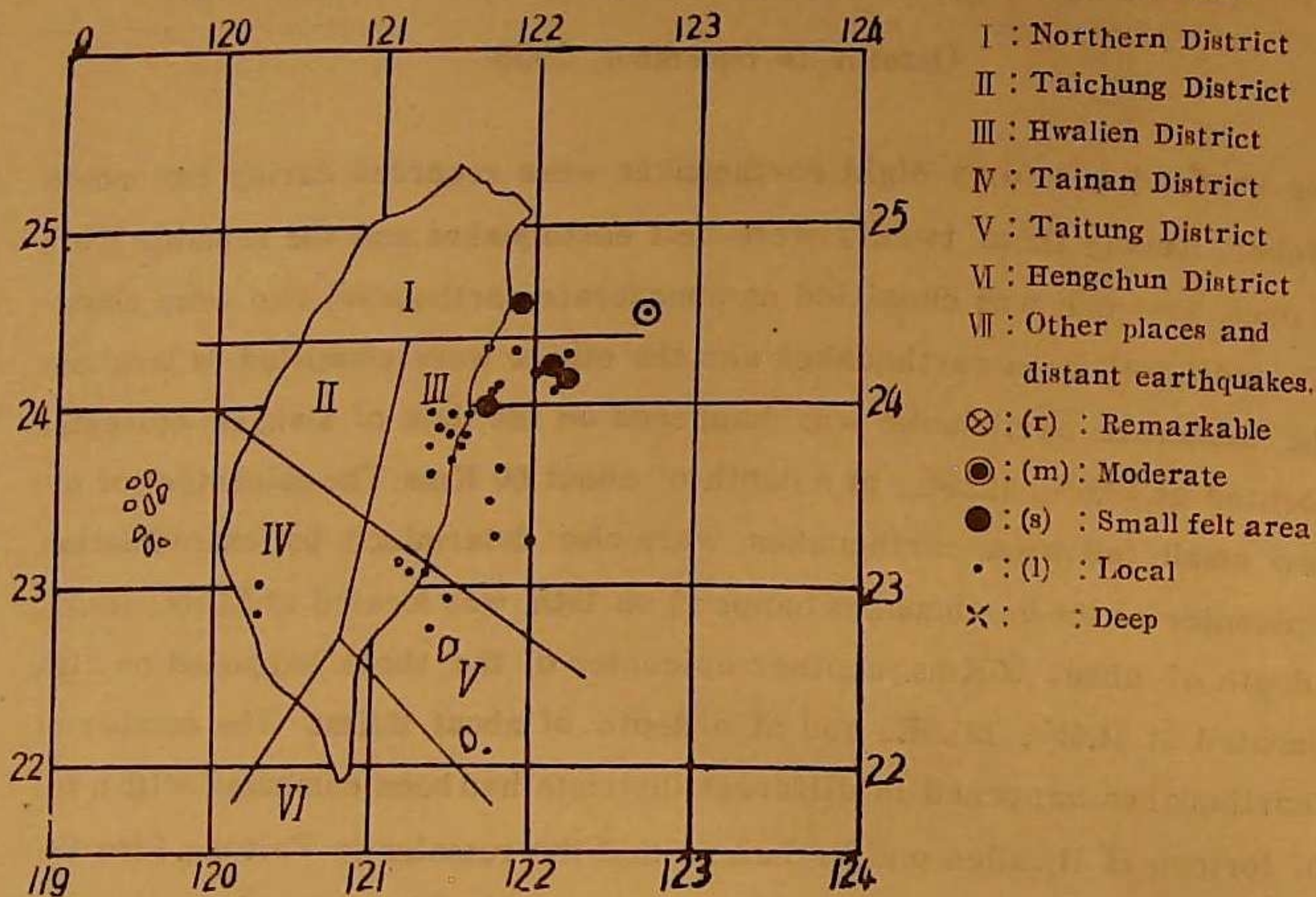
One hundred and forty-eight earthquakes were recorded during the month of October. Among them twenty were felt earthquakes and the remains were unfelt ones. Just one was classified as a moderate earthquake, two were classified as small felt area earthquakes and the others were classified as local ones. The moderate earthquake was happened on the date of 31st., its epicenter was located at 24.5N., 122.8E., at a depth of about 60 Kms. The epicenters of other two small felt area earthquakes were also determined by extrapolation. The epicenter of the earthquakes happened on 19th, was located at 24.1N., 122.1E. at a depth of about 20Kms. another epicenter of the shock happened on 21st, was located at 24.6N., 121.9E., and at a depth of about 10Kms. The number of local earthquakes happened in different districts had been computed with a result of fourteen in Hwalien one in Tainan and the remains in Taitung. Five distant earthquakes were recorded during this month. The data of these major earthquakes is listed in a table attached to the last part of this pamphlet.

In november, the number of occurrence of earthquakes has a decrease of forty-one cases in comparison to the previous month which were amounted to a figure of one hundred and seven. Among them, eight were classified as felt earthquakes and the remains were unfelt ones. The felt earthquakes in this month, one was classified as small felt area that was happened on 20th. Its epicenter was located at 24.1N., 121.8E. at a depth about 10Kms. The remains are local ones. Eleven distant earthquakes were recorded in this month. They are listed in the table of major earthquakes.

During the month of December, one hundred and eight earthquakes were recorded in Taiwan. Six of them were felt by persons, according to the magnitude of earthquakes, two were classified as small felt area ones and the remains were local ones. The small felt area earthquakes happened in this month. One was reported on 7th and its epicenter was located at 131Kms. SE. of Hengchun, and other earthquake was happened on 14th which was to be extrapolated at 66Kms. NE. of Hwalien. The number of distant earthquakes in Decembor was recorded eleven. The initial motion, maximum amplitude and period of these shocks are given in the last part of this Bulletin under the table of major earthquakes.



Epicenters of Felt Earthquakes in October to December 1958.



Number of earthquakes classified according to its magnitude and Districts October to December 1958.

Classification	Number of felt earthquakes					Number of unfelt earthquakes	Total
	Remarkable	Moderate	Small felt area	Local	Total		
Northern District	—	1	1	—	2	40	42
Taichung "	—	—	—	—	—	7	7
Hwalien "	—	—	3	21	24	107	131
Tainan "	—	—	—	2	2	10	12
Taitung "	—	—	1	5	6	108	114
Hengchun "	—	—	—	—	—	37	37
Other places "	—	—	—	—	—	20	20
<b>Total</b>	—	1	5	28	34	329	363

Felf earthquakes in the month of October to December, 1958.

No.	Month	P. (G. M. L.)			Magni- tude	Epicenter	Latitude	Longitude	Depth.
		d.	h.	m.					
77	Oct.	2	03	45	1	16 km WNW. of Hwalien,	N.	E.	kms.
78	"	2	13	06	"	62 km NE. of Hwalien.	—	—	40
79	"	8	11	39	"	near Hwalien.	—	—	60
80	"	8	11	40	"	"	—	—	20
81	"	8	13	10	"	29 km. WSW. of Mwalien.	—	—	20
82	"	9	23	33	"	46 km. SSW. of Hwalien.	—	—	0~10
83	"	10	21	53	"	13 km SE. of Tainan.	—	—	0~10
84	"	11	04	06	"	38 km.SSW. of Hwalien.	—	—	50
85	"	12	05	06	"	near Hwalien.	—	—	shallow
86	"	12	06	52	"	"	—	—	shallow
87	"	12	13	25	"	near Hsinkong.	—	—	"
88	"	18	14	48	"	70 km. ENE. of Hsinkong.	—	—	0~01
89	"	19	12	36	"	57 km ENE. of Hwalien.	—	—	20
90	"	20	06	12	"	30 km. NE. of Hwalien.	—	—	10
91	"	20	13	07	s	60 km. ENE. of Hwalien.	24.1	122.1	20
92	"	20	13	12	1	32 km. NE. of Hwalien.	—	—	20
93	"	21	07	16	s	26 km. SE. of Ilan.	24.6	121.9	0~10
94	"	23	04	10	1	near Hsinkong.	—	—	10
95	"	23	21	50	"	32 km. SSE. of Ilan.	—	—	10
96	Oct.	31	23	39	m	103 km' ESE. of Ilan.	24.5	122.8	60
97	Nov.	1	11	08	1	40 km. SSE. of Hsinkong.	—	—	20
98	"	1	23	28	"	near Tainan	—	—	Shallow
99	"	6	11	54	"	50 km. ENE. of Hsinkong.	—	—	40
100	"	8	14	04	"	27 km. SE. of Hsinkong.	—	—	20
101	"	15	22	33	"	76 km. ENE of Hwalien.	—	—	20
102	"	18	19	57	"	18 km. W. of Hsinkong.	—	—	0
103	"	20	14	11	s	20 km. WNW. of Hwalien.	24.1	121.8	10
104	"	30	15	59	1	13 km. SW. of Hwalien.	—	—	10
105	Dec.	7	01	09	s	131 km. SE. of Hengchnn.	21.3	121.8	40
106	"	9	23	43	1	60 km. SSE. of Hwalien.	—	—	40
107	"	10	01	40	"	40 km. SSE. of Hwalien.	—	—	40
108	"	14	03	14	s	66 km. NE. of Hwalien.	24.2	122.1	20
109	"	21	20	20	1	12 km. S. of Hwalien.	—	—	0~10
110	"	24	01	36	"	40 km SSE, of Ilan.	—	—	10



## Unfelt Earthquakes in the Month of October to December, 1958.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
988	Oct.	1	05	21	238km. ESE. of Hengchun.	1021	Oct.	9	22	21	Near Hsinkong.
989	"	1	05	25	Taitung district.	1022	"	10	04	51	"
990	"	1	14	04	Near Hsinkong.	1023	"	10	05	09	Hengchun district.
991	"	1	16	20	Hwalien district,	1024	"	10	17	40	43km. N. of Hwalien.
992	"	1	21	35	Near Hsinkong.	1025	"	10	19	10	Near Hwalien.
993	"	2	05	34	Hwalien district.	1026	"	10	22	08	Near Tainan.
994	"	2	05	49	Near Hsinkong.	1027	"	11	00	12	Tainan district.
995	"	2	06	34	65km. SSE. of Ilan.	1028	"	11	03	45	Near Hsinkong.
996	"	2	15	07	Taichung district.	1029	"	11	04	19	20km. NNE. of
997	"	2	23	03	30km. SSE. of Alishan.	1030	"	11	04	22	" (Hengchun)
998	"	3	01	28	Near Hsinkong.	1031	"	11	04	23	"
999	"	3	04	21	"	1032	"	11	14	16	Northern district.
1000	"	3	14	59	Hengchun district.	1033	"	12	15	20	27 $\frac{1}{2}$ N, 125 $\frac{1}{2}$ E.
1001	"	4	17	27	Near Hsinkong.	1034	"	13	10	11	Northern district.
1002	"	5	07	45	"	1035	"	13	15	14	24km. NNE. of Hengchun.
1003	"	5	08	32	140km. ESE. of Hwalien.	1036	"	13	16	40	Near Hwalien.
1004	"	5	09	11	Hwalien district.	1037	"	14	18	04	30km. SE. of Alishan.
1005	"	5	12	41	"	1038	"	14	20	33	Near Hwalien.
1006	"	6	01	49	Near Hsinkong.	1039	"	14	21	03	"
1007	"	6	04	36	Near Hwalien.	1040	"	15	04	56	50km. SSW. of Hwalien.
1008	"	6	21	50	Northern district.	1041	"	16	02	45	Taitung district.
1009	"	7	03	31	Hwalien district.	1042	"	16	06	53	Hwalien district.
1010	"	7	08	38	Near Hwalien.	1043	"	16	06	56	Hengchun district.
1011	"	7	12	40	5S, 151 $\frac{1}{2}$ E. Near New Britain.	1044	"	16	22	31	Hwalien district.
1012	"	8	03	16	Near Hsinkong.	1045	"	16	22	40	47km. SSW. of Hwalien.
1013	"	8	14	35	"	1046	"	17	01	55	30km. SSW. of Hwalien.
1014	"	8	19	31	Near Hwalien.	1047	"	17	02	11	"
1015	"	9	02	09	Near Hsinkong.	1048	"	17	09	02	21km. SE. of Ilan.
1016	"	9	04	47	Taichung district.	1049	"	17	13	18	Taitung district.
1017	"	9	07	34	Near Alishan.	1050	"	17	17	08	Northern district.
1018	"	9	11	42	Near Hwalien.	1051	"	17	17	48	"
1019	"	9	12	02	Near Hsinkong.	1052	"	17	22	05	Taitung district.
1020	"	9	19	23	Hwalien district.	1053	"	18	09	52	Hwalien district.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
1054	Oct.	19	08	13	11km. N. of Hwalien.	1088	Oct.	21	11	41	Hwalien district.
1055	"	19	13	03	35km. Nw. of Hwalien.	1089	"	23	00	11	Near Hwalien.
1056	"	19	13	22	Hwalien district.	1090	"	23	03	10	Northern district.
1057	"	19	14	10	Northern district.	1091	"	24	02	23	110km. ENE. of Hwalien.
1058	"	19	14	19	Near Hwalien.	1092	"	24	05	19	Northern district.
1059	"	19	14	38	Hwalien district.	1093	"	24	06	00	Near Hsinkong.
1060	"	19	15	08	"	1094	"	24	13	01	15km. SE. of Ilan.
1061	"	19	15	40	Near Hwalien.	1095	"	25	00	09	Taitung district.
1062	"	19	16	33	Hwalien district.	1096	"	26	15	52	Northern district.
1063	"	19	16	40	Near Ilan.	1097	"	26	23	17	Near Hwalien.
1064	"	19	16	50	Hwalien district.	1098	"	27	03	13	Taitung district.
1065	"	19	17	01	"	1099	"	27	16	08	Northern district.
1066	"	19	17	23	"	1100	"	27	17	20	Taitung district.
1067	"	19	17	30	Near Ilan.	1101	"	28	04	18	Near Hwalien.
1068	"	19	18	05	Tainan district.	1102	"	28	05	35	P: faint (distant)
1069	"	19	18	44	Hwalien district	1103	"	28	10	54	30 $\frac{1}{2}$ N. 85E. Southern Tibet.
1070	"	19	19	03	45km. NNE. of Hwalien.	1104	"	28	17	46	Near Hsinkong.
1071	"	19	19	10	Hwalien district.	1105	"	28	21	42	"
1072	"	19	19	19	Near Hwalien.	1106	"	29	02	02	Taitung district.
1073	"	19	19	22	"	1107	"	29	07	53	"
1074	"	19	19	27	50km. ENE. of Hwalien.	1108	"	29	08	03	Faint. (distant)
1075	"	19	19	32	Near Hwalien.	1109	"	30	05	36	Near Hsinkong.
1076	"	19	19	37	Hwalien district.	1110	"	30	07	03	Near Tainan.
1077	"	19	20	07	Near Hwalien.	1111	"	30	12	47	Near Hwalien.
1078	"	19	21	04	40km. ESE. of Hengchun.	1112	"	30	16	04	Near Hsinkong.
1079	"	20	01	19	Hengchun district.	1113	"	31	05	39	Hwalien district.
1080	"	20	01	24	Northern district.	1114	"	31	07	29	Near Hsinkong.
1081	"	20	07	31	Near Hwalien.	1115	"	31	15	15	Near Hwalien.
1082	"	20	12	22	Near Hsinkong.	1116	Nov.	1	03	46	U.S.C. G.S: 3S, 150E. Faint (d)
1083	"	20	14	31	Hwalien district.	1117	"	3	15	12	Hwalien district.
1084	"	20	22	09	Near Hengchun.	1118	"	3	17	58	Near Hwalien.
1085	"	21	02	51	Near Hsinkong.	1119	"	3	23	09	Near Taitung.
1086	"	21	06	22	Hwalien district.	1120	"	4	02	48	Hengchun district.
1087	"	21	06	41	Tainan district.	1121	"	4	08	32	U.S.C.G.S.: 28N.140 $\frac{1}{2}$ E. (d)



No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
1122	Nov.	4	12	17		1156	Nov.	13	04	10	U.S.C.G.S.: 44 $\frac{1}{2}$ N. 148E. Faint. (d)
1123	"	4	18	49	"	1157	"	13	06	04	U.S.C.G.S.: 43 $\frac{1}{2}$ N. 139E (d)
1124	"	5	01	38	Near Hsinkong.	1158	"	14	13	54	U.S.C.G.S.: 6S, 131E Faint.(d)
1125	"	5	13	09	Near Hwalien.	1159	"	14	14	22	Near Hsinkong.
1126	"	5	13	19	Hwalien district.	1160	"	14	14	47	"
1127	"	5	21	46	Near Hwalien.	1161	"	15	04	12	Northern district.
1128	"	6	12	23	Near Hsinkong.	1162	"	15	06	38	Near Hsinkong.
1129	"	6	12	24	"	1163	"	15	07	03	"
1130	"	6	14	12	Hwalien district.	1164	"	15	09	59	"
1131	"	6	23	04	U.S.C.G.S.: 44 $\frac{1}{2}$ N., 148 $\frac{1}{2}$ E. (d)	1165	"	15	15	59	"
1132	"	7	01	49	U.S.C.G.S.: 44 $\frac{1}{2}$ N., 149 $\frac{1}{2}$ E. (d)	1166	"	16	05	48	120km. ESE. of Hwalien.
1133	"	7	05	58	35km. ENE. of Hwalien.	1167	"	16	08	15	Taitung district.
1134	"	7	16	59	Near Hwalien.	1168	"	16	12	03	Near Hsinkong.
1135	"	7	20	23	Near Hsinkong.	1169	"	16	12	34	"
1136	"	8	00	44	Near Hwalien.	1170	"	16	22	37	Northern district.
1137	"	8	01	26	"	1171	"	16	23	09	"
1138	"	8	09	41	Faint (d)	1172	"	17	03	01	Near Hengchun.
1139	"	8	09	55	Taitung district.	1173	"	17	12	48	Near Hsinkong.
1140	"	8	11	16	Near Hsinkong.	1174	"	17	15	12	"
1141	"	9	14	19	"	1175	"	18	00	15	"
1142	"	9	21	00	"	1176	"	18	05	14	Taitung district.
1143	"	10	12	34	Hwalien district.	1177	"	18	15	26	Near Hsinkong.
1144	"	10	15	49	Near Hsinkong.	1178	"	18	15	32	"
1145	"	10	18	34	"	1179	"	18	16	01	"
1146	"	10	21	31	Taitung district.	1180	"	19	17	31	Northern district.
1147	"	12	03	29	Northern district.	1181	"	20	00	19	Near Hwalien.
1148	"	12	03	59	264km. SE. of Hengchun.	1182	"	20	03	01	Near Hsinkong.
1149	"	12	05	09	75km. ESE. of Ilan.	1183	"	20	08	02	Hengchun district.
1150	"	12	06	53	Taitung district	1184	"	20	16	52	Hwalien district.
1151	"	12	15	16	150km. ESE. of Ilan.	1185	"	21	02	07	Near Hsinkong.
1152	"	12	20	29	U.S.C.G.S.: 44 $\frac{1}{2}$ N. 149F.(d)	1186	"	21	05	19	Near Hwalien.
1153	"	12	20	59	Hwalien district.	1187	"	21	06	43	Near Hsinkong.
1154	"	12	23	12	Near Hengchun.	1188	"	21	21	10	"
1155	"	13	03	08	Faing. (d)	1189	"	21	23	20	Hwalien district.

No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		(G.	M.	T.)				(G.	M.	T.)	
		d.	h.	m.			d.	h.	m.		
1190	Nov	22	04	45	Tainan district.	1224	Dec.	6	20	11	Hengchun district.
1191	"	22	10	05	Near Hsinkong.	1225	"	6	21	24	Near Hsinkong.
1192	"	22	13	44	Taitung district.	1226	"	7	01	07	110km. SE. of Hengchun.
1193	"	22	17	15	Near Hsinkong.	1227	"	7	01	17	Hengchun district.
1194	"	22	17	22	"	1228	"	7	01	44	100km. SSE. of Hengchun.
1195	"	22	22	47	Northern district.	1229	"	7	02	18	Hengchun district.
1196	"	23	01	50	Near Hsinkong.	1230	"	7	02	55	"
1197	"	23	08	16	"	1231	"	7	03	43	"
1198	"	23	22	03	Hwalien district.	1232	"	7	04	57	130km. ESE. of Hengchun.
1199	"	24	00	56	Northern district.	1233	"	7	05	20	105km. SE. of Hengchun.
1200	"	24	07	15	Hwalien district.	1234	"	7	05	32	Hengchun district.
1201	"	25	03	41	Taichung district.	1235	"	7	05	43	Taitung district.
1202	"	26	02	35	Hwalien district.	1236	"	7	08	51	105km. SE. of Hengchun.
1203	"	26	23	27	Near Hwalien.	1237	"	7	09	13	Hengchun district.
1204	"	27	02	12	Hwalien district.	1238	"	7	11	27	"
1205	"	27	21	23	Near Hsinkong.	1239	"	7	11	31	"
1206	"	28	07	36	Hwalien district.	1240	"	7	12	10	"
1207	"	28	11	41	"	1241	"	7	12	14	"
1208	"	28	23	25	220km. WSW. of Taichung.	1242	"	7	12	15	"
1209	"	30	01	37	U. S. C. G. S.: 32N, 137 $\frac{1}{2}$ E. (d)	1243	"	7	13	59	"
1210	"	30	02	41	Near Hsinkong.	1244	"	7	14	52	Near Hengchun.
1211	"	30	12	48	Hengchun district.	1245	"	7	19	11	Taitung district.
1212	"	30	15	06	Near Hsinkong.	1246	"	7	19	54	Hengchun district.
1213	"	30	16	33	Hwalien district.	1247	"	7	20	02	"
1214	"	30	23	09	110km. ENE. of Hengchun.	1248	"	8	02	22	200km. ESE. of Ilan.
1215	Dec	1	14	25	Hwalien district.	1249	"	9	08	02	Northern district.
1216	"	2	13	10	"	1250	"	9	09	55	Near Hsinkong.
1217	"	3	09	49	300km. SW. of Hengchun.	1251	"	9	14	48	Hwalien district.
1218	"	3	13	04	60km. E. of Ilan.	1252	"	9	15	18	Northern district.
1219	"	4	16	24	Near Hsinkong.	1253	"	9	21	37	30km. SSE. of Hsinkong.
1220	"	5	23	34	Hengchun district.	1254	"	10	07	14	110km. SE. of Taitung.
1221	"	6	05	37	Near Hsinkong.	1255	"	10	07	24	Hwalien district.
1222	"	6	13	06	Taichung district.	1256	"	"	09	13	Near Hwalien.
1223	"	6	18	57	Northern district.	1257	"	11	03	02	Taitung district.



No.	Month	P.			Epicenter	No.	Month	P.			Epicenter
		G.	M.	T.				G.	M.	T.	
		d.	h.	m.			d.	h.	m.		
1258	Dec.	11	16	40	70km. E. of Taipei.	1288	Dec.	21	14	22	Taichung district.
1259	"	12	02	40	Hwalien district.	1289	"	21	14	25	Northern district.
1260	"	12	22	26	Near Hwalien.	1290	"	21	14	27	"
1261	"	13	23	38	82km. ESE. of Taitung	1291	"	21	14	49	Hwalien district.
1262	"	14	05	35	Near Hsinkong.	1292	"	22	05	40	"
1263	"	14	17	14	47km. SE. of Ilan.	1293	"	22	12	31	Near Hwalien.
1264	"	14	18	28	Hwalien district.	1294	"	22	20	00	Near Hsinkong.
1265	"	14	21	23	"	1295	"	23	16	42	Hwalien district.
1266	"	16	01	46	"	1296	"	24	02	09	"
1267	"	16	10	28	40km. NNw. of Hwalien.	1297	"	24	03	23	Northern district.
1268	"	16	11	14	Hwalien district.	1298	"	24	19	02	Near Hsinkong.
1269	"	16	11	21	Near Hwalien.	1299	"	24	23	23	"
1270	"	17	15	36	29.8N, 131E. (d) Faint.	1300	"	25	03	03	"
1271	"	17	16	19	Near Hwalien.	1301	"	25	08	13	Northern part of India
1272	"	18	07	27	Taitung district.	1302	"	25	22	59	Near Hsinkong.
1273	"	18	10	07	Northern district.	1303	"	26	02	36	Taitung district.
1274	"	19	10	46	"	1304	"	26	08	01	Near Hsinkong.
1275	"	19	11	23	Near Hsinkong.	1305	"	26	14	16	"
1276	"	19	22	07	Near Hengchun.	1306	"	26	19	37	"
1277	"	19	22	14	70km. ENE. of Ilan.	1307	"	27	17	54	Northern district.
1278	"	19	23	57	220km. E. of Hsinkong.	1308	"	27	23	41	Taichung district.
1279	"	20	00	30	Near Hsinkong.	1309	"	28	00	43	Hwalien district.
1280	"	20	00	42	Hengchun district.	1310	"	29	13	32	"
1281	"	20	03	45	Hwalien district.	1311	"	29	20	05	40km. SE. of Ilan.
1282	"	20	19	22	30N, 132E. (d) Faint.	1312	"	29	20	06	"
1283	"	20	20	01	70km. E. of Hengchun.	1313	"	30	08	27	Near Hsinkong.
1284	"	21	04	24	Near Hsinkong.	1314	"	31	16	24	49km. ENE. of Ilan.
1285	"	21	06	01	Faint. (d)	1315	"	31	17	22	Near Hsinkong.
1286	"	21	14	16	Northern district.	1316	"	31	18	48	Taitung district.
1287	"	21	14	19	100km. ESE. of Ilan.						

## Major Earthquakes in October, 1958

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.	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	s	s	s	m	s		
1	Hwalien	7	p	12 4 43.7	-	-	-	-	-	-	-	-	-	-	0	U.S.C.G.S.: S.S.151 $\frac{1}{2}$ P. Faint (d)	
	Taipei		eP	42 12.5	-	-	-	-	-	-	-	-	-	-	0		
	Tawu		p	49 34.8	-	-	-	-	-	-	-	-	-	-	0		
2	Ilan	12	p	15 20 02.2	- 40.0	- 53.0	-	77	103	-	3.3	3.0	-	-	0	27 $\frac{1}{2}$ N. 127 $\frac{1}{2}$ E. (d)	
	Taipei		p	06.6	- 31.7	- 38.2	+ 92.3	140	220	81	4.7	5.1	4.5	01	1.0	0	
	Hwalien		p	11.6	-	-	-	-	-	-	-	-	-	-	0		
	Hsinchu		eP	14.8	-	-	-	-	-	-	-	-	-	01	8.0	0	
	Taichung		p	19.5	-	-	-	-	-	-	-	-	-	-	0		
	Hsinkong		eP	19.6	-	-	-	-	-	-	-	-	-	01	9.3	0	
	Alishan		iP	22.0	- 6.1	- 6.2	-	-	-	-	-	-	-	01	13.3	0	
	Taitung		iP	25.7	-	-	-	-	-	-	-	-	-	01	15.9	0	
	Tawu		p	29.7	-	-	-	-	-	-	-	-	-	01	20.1	0	
	Tainan		p	31.0	-	-	-	-	-	-	-	-	-	01	36.1	0	
	Hengchun		p	37.8	+ 7.2	+ 11.5	+ 5.1	-	-	-	-	-	-	01	22.0	0	
	Kaohsiung		eP	41.0	-	-	-	-	-	-	-	-	-	-	0		
3	Hwalien	19	p	12 36 18.0	-	-	+ 7.0	108	134	60	1.9	1.9	1.1	6.2	I	57km. ENE. of Hwalien. (H=20) (l)	
	Ilan		p	22.8	-	-	-	147	153	-	2.0	2.0	-	8.7	0		
	Taipei		p	29.9	-	-	-	-	-	-	-	-	-	9.7	0		
	Taichung		p	30.6	-	-	-	-	-	-	-	-	-	-	0		
	Alishan		eP	31.5	-	-	-	-	-	-	-	-	-	14.7	0		
	Hsinchu		eP	32.1	-	-	-	-	-	-	-	-	-	16.3	0		
	Hsinkong		eP	32.2	-	-	-	-	-	-	-	-	-	15.7	0		
	Taitung		p	37.6	-	-	-	-	-	-	-	-	-	-	0		
	Tawu		eP	46.5	-	-	-	-	-	-	-	-	-	26.5	0		
	Tainan		eP	50.3	-	-	-	-	-	-	-	-	-	30.5	0		
	Hengchun		p	37 04.5	-	-	-	-	-	-	-	-	-	-	0		
4	Hwalien	19	p	13 07 57.9	-	-	+ 3.0	200	236	-	2.1	2.3	-	7.0	II	60km. ENE. of Hwalien. 122°E. 24°N. (H=20) (s)	
	Ilan		iP	08 03.1	- 27.0	- 13.0	- 42.0	627	480	187	1.3	1.7	1.8	8.8	I		
	Hsinchu		eP	06.3	-	-	-	1080	750	-	2.2	1.8	-	17.1	I		
	Taipei		iP	09.1	- 5.1	+ 0	- 6.5	214	147	81	1.0	1.0	2.8	12.2	0		
	Yushan		eP	10.5	-	-	-	-	-	-	-	-	-	-	0		















