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MINISTRY OF AIR COMMUNICATIONS
METEOROLOGICAL AND GEOPHYSICAL SERVICE
DJAKARTA

EARTHQUAKES IN INDONESIA

1962

I have used the institution name:
"Department of Communications - Meteorological and Geophysical Services - Djakarta, Indonesia"
.. for the bulletins below.
There are variations of this name however I have kept it the same for continuity.

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INTRODUCTION

The compilation of this volume is the same as the preceding one. It contains the result of macroseismic and micro-seismic observations for the year 1962.

The macro-seismic observations comprise the information of all reported earthquakes expressed in local time, the number of reports and shocks; the maximum intensity according to modified Marcally Intensity Scale; places where the tremors were felt are included and the numbers appearing in the remarks column correspond to the serial number at the same shocks in table II. (Fig. B).

The data on felt earthquakes are chiefly obtained from the blanks distributed by the Meteorological and Geophysical Service that have been completed and returned to the service by volunteers over the country.

The micro-seismic observations contain the location of epicentra of earthquakes having taken place in the region between 10°N — 15°S and 90°E — 145°E, Fig. C, obtained from USCGS and DJAkarta epicentres; the origin time expressed in GMT., the depth and magnitude are included.

The number of reports received was 789 relating to 151 tremors. The greatest number of reports about one earthquake amounted to 245 and next to this greatest number amounted to 179.
After the number of reports received Southern West Java and the Banda-sea seemed to be active.

SIGNIFICANT EARTHQUAKES

March 22, 1962.

At 07^h50^m in the morning of March 22, 1962, an earthquake occurred which effected Southern East Java. The Western limit of the macroseismic area was Patjitan while Banjuwangi was the Eastern most place which detected the tremors. Both places reported Intentity II. The quake was not strong anough to have caused any structural damage.

Oktober 10, 1962.

The provinces Jogjakarta, Surakarta, Madiun and Kediri were shaken by an earthquake at 21^h00^m on the evening of October 10, 1962. Purwantoro in Surakarta provice felt the shock strongest (Intensity V).
In Kebon Sere, in Madiun province, a rumbling sound was heard.
The epicenter was placed at 8,9 S — 110,4 E. However this earthquake did not cause any casualty or damage.

December 21, 1962.

An earthquake of moderate Intensity rocked Southern central and East Java.
The shock was felt as far East as the island of Bali.
A moderate tremor of intensity V-VI was felt in Wlingi and neighbouring places in Kediri province and the shock was felt in most places in Madiun province as intensity III. Djembrana in Bali felt it as intensity II and southern central Java felt it as Intensity II.
A large number of people in Madiun and Kediri province felt the quake and its intensity was high enough to cause some panic in public places, like schools and markets.
Macroseismic and instrumental data indicated that the tremor was of tectonic nature and deep-focused; this quake was centred at 9,0 S — 112,4 E.
However no damage or casualties were reported in connection with this shock. (Fig. A).

December 22, 1962.

A tremor occurred at 09^h30^m in the morning of December 22, 1962 and was felt in Southern East Java.
Rambipudji and Besuki province felt the shock strongest as intensity IV.
Places in Madiun and Kediri reported intensity II-III.
From the extent of the macroseismic area alone it was readily evident that the quake was tectonic. The origin of the tremor was found at 9,2 S — 112,4 E.
No damage or casualties were caused by this tremor.

MACROSEISMIC OBSERVATION

TABLE : I

No.	Date	Local Time	Place	Districts	Number of reports	Intensity	Number of shocks	Remarks	No. Table II
January									
1.	4	04 37	Sorong	18a	3	II	1	—	—
2.		08 40	Pariaman & Lb. Alung area	3b	7	II	1	—	2
3.	5	09 30	Padang, Pariaman	3b	2	IV	2	—	—
4.	7	07 30	Kui	10f	1	III	1	—	—
5.		17 15	Sentani	18b	1	II	1	—	7
6.		21 00	Kui	10f	1	III	1	—	—
7.	12	12 30	Babo	18a	1	II	1	—	—
8.	13	14 43	Tigi	18b	1	II	1	—	—
9.	18	10 10	Sudimoro	8a	1	III	1	—	—
10.	19	17 06	Andjai	18a	1	II	1	—	—
11.	20	04 05	Pondok Kelapa	4b	1	III	1	—	—
12.	22	08 04	Tjigenang	6c	1	II	1	—	—
13.	23	20 30	Keerom	18b	1	II	1	—	—
14.	24	06 00	Muko[2]	4b	1	II	1	—	—
15.	25	23 00	South Madiun & South Surakarta area	7g, 8a	16	II-III	1	—	—
16.	26	22 45	Batuwarno & Tegalombo area	7g, 8a	4	III	1	—	—
17.	27	23 50	Nanggulan	7c	1	II	1	—	—
18.	30	11 45	Majang	8d	2	II	1	—	—
February									
19.	3	09 40	Biak & Sarmi area	18b	7	II-III	1	—	29
20.		11 00	Agats	18c	1	II	1	—	—
21.	4	01 03	Wera	9c	1	II	1	—	—
22.	5	10 30	Pare & Salabatu area	12a, 14a	8	II-III	1	—	—
23.		14 30	Kesamben	8c	1	II	1	—	—
24.	6	04 00	Agam	3b	1	II	1	—	—
25.		08 45	Wawo & Sumba	9c, 10a	2	II-III	1	—	—
26.	8	02 30	Lumut	2b	1	III	1	—	—
27.		20 48	Sentani	18b	1	II	1	—	33
28.	9	02 15	Tapanuli area	2b	3	III-V	1	—	—
29.		02 50	Pariaman	3b	1	II	1	—	—
30.	12	21 14	Agats	18c	1	II	1	—	—
31.	15	08 30	Bernusa Pantar	10f	1	II	1	—	—
32.	20	13 15	Bantarkawung	7d	1	II	1	—	—
33.	22	08 06	Seluma	4b	1	II	1	—	46
34.	24	13 00	West coast of cetral Sumatra	2b, 3b	7	III	1	—	48
35.	28	17 45	Sukarnapura	18b	1	II	1	—	—

No.	Date	Local Time	Place	Districts	Number of reports	In-tensity	Number of shocks	Remarks	No. Table II
March									
36.	2	09 12	Sukarnapura	18b	1	II	1	—	—
37.		20 00	Southern Madiun & Kediri area	7g, 8b, c	11	II-III	1	—	—
38.		21 14	Ransiki	18a	1	III	1	—	—
39.	3	22 00	Pariaman	3b	1	II	1	—	—
40.	5	10 45	Lais	4b	1	II	1	—	63
41.	8	22 00	Tigi	18b	1	II	1	—	—
42.	10	10 00	Takengon	1b, 2b	2	II	1	—	69
43.	13	12 20	Kendari	12b	1	II	1	—	—
44.	15	16 30	Bandjaran	6f	1	III	1	—	—
45.	16	04 00	Banten and Bogor area	6a, c	10	II-IV	1	—	78
46.		12 50	Kendari	12b	1	II	1	—	—
47.		14 15	Djaja	1b	1	II	1	—	—
48.	18	03 30	Keerom	18b	1	II	1	—	—
49.	19	04 05	Lubuklinggau	4e	1	II	1	—	—
50.		06 45	Luwuk	13b	1	III	1	—	—
51.		14 20	Djaja	1b	1	III	1	—	—
52.	20	03 50	Lubuklinggau	4e	1	II	1	—	—
53.	22	07 20	Southern Malang and Besuki area	8c, d	11	II-III	1	Felt by many, arousing panic among the people	87
54.	27	14 40	Wahai	16b	1	II	1	—	103
55.	28	10 08	Gunung Sitoli	2a	1	II	1	—	104
56.	29	06 40	Teminabuan	18a	1	IV	1	—	—
April									
57.	1	21 15	Tanah Merah & Agats	18c	2	II	1	—	110
58.	3	12 30	Lubuk Begalung	3b	1	II	1	—	—
59.	9	04 00	Barnusa	10f	1	III	1	—	—
60.		20)30	South Bogor and Priangan area	6b, f	6	II-III	1	—	—
61.	10	20 00	Sindangbarang	6c	2	II	1	—	—
62.	12	18 15	Pangalengan	6f	1	II	1	—	125
63.	13	10 30	Tjisolok	6c	1	II	1	—	127
64.	17	03 00	Tjisolok	6c	1	II	1	—	129
65.	18	07 15	Sentani	18b	1	II	1	—	—
66.	20	23 20	Waleri	7e	1	II	1	—	—
67.	24	10 57	Wieselmeren	18b	1	II	1	—	—
68.		18 15	Sigidolo	13a	1	II	1	—	—
69.	26	15 00	Besuki area	8d	5	I-III	1	—	—
70.		17 30	Anjer	6a	1	II	1	—	—
71.	27	03 00	Wuluhan	8d	2	II-III	1	—	—
72.		14 25	Sorong	18a	1	III	1	—	—
73.	28	20 00	Bogor and Priangan area	6c, f	6	III	1	Sound was heard like thunder	—
74.	29	20)00	Priangan area	6f	3	II-IV	1	—	—
75.		22 00	Barnusa	10f	1	III	1	—	—

No.	Date	Local Time	Place	Districts	Number of reports	In-tensity	Number of shocks	Remarks	No. Table II
May									
76.	14	13 15	Bogor area	6b	5	II-III	1	The shock preceded by a rumbling sound	
77.		19 02	Wera and Wawo	9c	2	III	1	—	142
78.	15	10 00	Laura	10c	1	III	1	—	—
79.		15 30	The isle of Kisar	16c	1	II	1	—	146
80.	17	03 30	Sumbawa and Sumba	9c, 10a	4	II-IV	1	—	151
81.	22	01 00	Una-Una	14a	1	II	1	—	—
June									
82	4	04 40	Sindangbarang	6c	1	II	1	—	—
83		05 05	Donorodjo	8a	1	II	1	—	—
84		10 30	Manggarai	10d	1	III	1	—	—
85.	10	20 45	Gorang-Gareng	8a	1	II	1	—	—
86.	11	21 00	Buru area	16a	2	II	1	—	—
87.	12	20)00	Kalabahi	10f	1	II	1	—	—
88.	14	20 43	Tjibatu	6f	1	II	1	—	—
89.	19	00 30	Semarang area	7e	4	II-III	1	—	—
90.		13 56	Manokwari & Japen island	18a, b	3	II-III	1	—	—
91.		14 10	Manggarai	10d	1	III	1	—	—
92.	27	18 20	Sindangbarang and Pangalengan	6c, f	2	II	1	—	—
93.		21 40	Leksula	16a	1	II	1	—	—
94.	28	18 50	Madugede, Pria- and Banjumas area	6e, f, 7a	15	III-IV	1	Crack on Walls	180
95.	29	06 30	Pajakumbuh and Talaman area	3b	4	III-IV	1	—	—
96.		18 15	Pamaritjan and Banjumas area	6f, 7a	4	II	1	—	—
97.		22 30	The isle of Kisar	16c	1	II	1	—	182
98.	30	24 00	Kalabahi	10f	1	II	1	—	—
July									
99.	2	11 15	Ngawaen and Putjungwangi	7f	2	II	1	—	—
100.		24)00	Una-Una	14a	1	II	1	A Sound was heard like a gun fire	183
101.	5	19 30	Tigi	18b	1	II	1	—	184
102.	16	14 30	Pameungpeuk area	6f	3	II-III	1	—	—
103.		23 45	Djaja	1b	1	II	1	—	—
104.	18	13 54	Waingapu	10a	1	IV	1	—	188
105.	24	17 10	Pamaritjan	6f	1	II	1	—	—
106.	25	04 55	Bima	9c	1	II	1	—	—

No.	Date	Local Time	Place	Districts	Number of reports	Intensity	Number of shocks	Remarks	No. Table II
August									
107.	3	14 00	Pamaritjan, Tjidjulang, Pangalengan	6f	3	II	1	Rumbling sound was heard	201
108.	7	21 30	Manggarai	10d	1	III	1	—	—
109.	9	22 59	Gemolong	7g	1	III	1	—	—
110.	11	09 00	Keerom	18b	2	II	1	—	—
111.		22)25	Pendawai	10a	1	III	1	—	—
112.	21	00 10	Ransiki	18a	1	II	1	—	211
113.		08 35	Baturaden	7a	1	II	1	—	—
114.	26	20 30	Sidikalang	2b	1	II	1	—	—
115.	27	08 32	Sukarnapura	18b	1	II	1	—	—
September									
116.	6	08 00	Leksula	16a	1	III	1	—	—
117.		14 00	Natal	2b	1	II	1	—	—
118.	7	09 30	Tentena	13a	1	III	1	Rumbling sound was heard	—
119.	9	02 30	Morotai	15a	1	II	1		
120.		16 10	Morotai	15a	1	II	1	—	—
121.		16 45	Morotai	15a	1	II	1	—	—
122.	10	04 30	Tjakranegara	9b	1	III	1	—	—
123.	17	20 47	Bantarkawung	7d	1	II	1	—	—
October									
124.	10	21 00	Southern East Java and Jogjakarta, Solo area and Madiun, Kediri	7b, c, g 8a, c	55	III-V	1	Strongest felt in South Surakarta and accompanied by a rumbling sound	243
125.	11	04 45	Panggul	8b	1	III	1	—	—
126.	18	11)00	Bali and Lombok area	9a, c	5	II-IV	1	—	—
November									
127.	6	20 00	Wawo	9c	1	III	1	—	—
128.	7	16 15	Kotanopan	2b	1	III	1	—	—
129.		24 00	Pelabuhanratu	6b	1	II	1	—	—
130.		24 30	Wawo and Pendawai	9c, 10c	2	II	1	—	267
131.	12	06 30	Pameungpeuk	6f	1	II	1	—	—
132.	19	06 50	Pagerwodjo, Lumadjang	8b, c	2	II-IV	1	—	—
133.	23	10 30	Priangan area	6f	6	II-IV	1	—	—
134.		19 00	Pameungpeuk	6f	1	II	1	—	278
135.	26	23 30	Surakarta area	7g	4	II-III	1	—	—
136.	27	23 30	Djatisrono	7g	1	III	1	—	—

No.	Date	Local Time	Place	Districts	Number of reports	Intensity	Number of shocks	Remarks	No. Table II
December									
137.	3	06 00	Kediri and Malang area	8b, c	5	II-III	1	—	—
138.	11	04 54	Tjandipuro and Kalipare	8c, d	2	II	1	—	—
139.		06 30	Maos	7a	1	II	1	—	—
140.		06 40	Priangan area	6f	3	II	1	—	—
141.	13	05 30	Kutaradja	1b	2	IV	1	—	289
142.	16	18 15	Batangtoru	2b	2	II	1	—	—
143.	20	07 30	Kebonsari	8a	1	III	1	—	—
144.	21	07 45	Southern Central and East Java	7a, b, f, g	245	II-VI	1	Rocked southern Central and East Java and couse panic among people in Madiun and Kediri area	301
145.	22	09 00	Surakarta and Southern East Java	7g, 8a, b, c, d	179	II-VI	1	—	303
146.	23	18 30	Madiun	8a	2	II	1	—	—
147.	26	10 15	Sukanegara	6c	1	II	1	—	309
148.	27	03 30	Batur	7a	1	VI	1	—	—
149.	31	09 30	Tjangkar	10d	1	II	1	—	312
150.		18 00	Kotanopan and Panjabungan	2b	3	II-V	1	—	—

EPICENTRE IN AND NEAR INDONESIA

TABLE: II

No.	Date	Time (GMT)	Epicenter Lat.	Epicenter Long.	Depth	Magn.	Remarks Table I
	January						
1.	1	11 49 51.0	7.5 S	— 106.5 E	—	—	—
2.	4	01 12 40.5	0.1 S	— 100.1 E	141 km.	—	2
3.	4	17 34 44.4	5.0 S	— 130.4 E	222 „	—	—
4.	4	20 00 54.4	1.6 S	— 99.6 E	59 „	—	—
5.	5	14 01 41.7	1.6 S	— 100.0 E	25 „	—	—
6.	5	15 47 48.0	1.5 S	— 100.1 E	25 „	—	—
7.	7	13 08 41.1	8.6 S	— 125.1 E	96 „	—	6
8.	9	11 43 45.0	7.1 S	— 105.9 E	—	—	—
9.	13	08 18 18.7)	2.9 N	— 124.8 E	25 „	—	—
10.	13	18 04 15.0	7.3 S	— 99.5 E	—	—	—
11.	16	16 07 01.4	3.0 S	— 129.4 E	221 „	—	—
12.	17	13 18 59.0	6.5 S	— 124.0 E	—	—	—
13.	17	13 19 28.0	9.0 S	— 126.8 E	—	—	—
14.	18	21 59 44.1	4.4 S	— 129.5 E	21 „	—	—
15.	18	22 00 23.0	8.5 N	— 124.0 E	—	—	—
16.	19	17 46 18.0	8.3 S	— 105.5 E	—	—	—
17	19	19 36 50.0	4.8 S	— 100.5 E	—	—	—
18.	19	19 36 56.0	5.5 S	— 100.5 E	—	—	—
19.	19	19 37 08.0	6.5 S	— 101.3 E	—	—	—
20.	19	21 18 58.5	2.9 S	— 139.0 E	76 „	—	—
21.	22	08 08 49.0	7.1 S	— 106.0 E	—	—	—
22.	23	21 41 13.0	6.3 S	— 100.8 E	—	—	—
23.	24	17 43 55.0	1.7 N	— 132.5 E	—	—	—
24.	26	18 23 54.0	7.9 S	— 105.5 E	—	—	—
25.	28	03 34 17.1	4.6 S	— 144.0 E	157 „	—	—
26.	28	16 40 50.0	0.8 S	— 125.0 E	—	—	—
27.	28	16 40 56.0	0.5 N	— 124.8 E	—	—	—
	February						
28.	1	08 07 01.1	8.2 S	— 105.6 E	—	—	—
29.	3	00 37 52.0	2.0 S	— 137.8 E	—	—	—
30.	4	02 54 42.1	4.6 S	— 119.0 E	89 „	—	—
31.	8	11 40 28.0	1.7 N	— 98.6 E	43 ,	—	—
32.	8	11 44 01.0	1.5 S	— 141.5 E	—	—	—
33.	8	11 49 13.9	3.2 S	— 141.3 E	87 „	—	27
34.	9	21 51 13.2	0.6 N	— 123.9 E	50 „	—	—
35.	12	06 45 00.4	2.0 N	— 128.1 E	109 „	—	—
36.	12	21 51 05.0	1.5 N	— 124.0 E	—	—	—
37.	12	22 50 58.0	9.5 S	— 106.0 E	—	—	—
38.	14	02 09 28.5	6.2 N	— 126.8 E	101 „	—	—
39.	14	02 47 30.7	0.1 N	— 123.8 E	96 „	—	—
40.	14	11 43 35.1	5.7 N	— 126.0 E	147 „	—	—
41.	16	15 32 33.0	7.5 S	— 105.2 E	—	—	—
42.	17	11 07 01.6	2.7 S	— 130.2 E	54 „	—	—
43.	20	10 14 45.0	14.8 S	— 100.2 E	—	—	—
44.	20	16 15 37.0	4.3 N	— 144 E	—	—	—
45.	20	17 05 38.9	4.0 S	— 104.2 E	25 „	—	—
46.	22	01 45 40.0	7.8 S	— 101.1 E	—	—	33
47.	23	13 55 31.0	9.4 S	— 106.5 E	—	—	—
48.	24	06 05 42.9	0.6 S	— 99.4 E	25 „	—	34
49.	24	13 35 04.0	9.5 S	— 107.1 E	—	—	—
50.	24	13 48 44.8	9.5 S	— 121.9 E	25 „	—	—
51.	26	08 44 48.8	0.1 S	— 122.3 E	25 „	—	—
52.	27	14 21 24.5	2.7 S	— 130.1 E	40 „	—	—
53.	28	05 19 54.1	2.5 S	— 140.5 E	25 „	—	—
54.	28	20 44 22.4	2.9 S	— 140.7 E	25 „	—	—

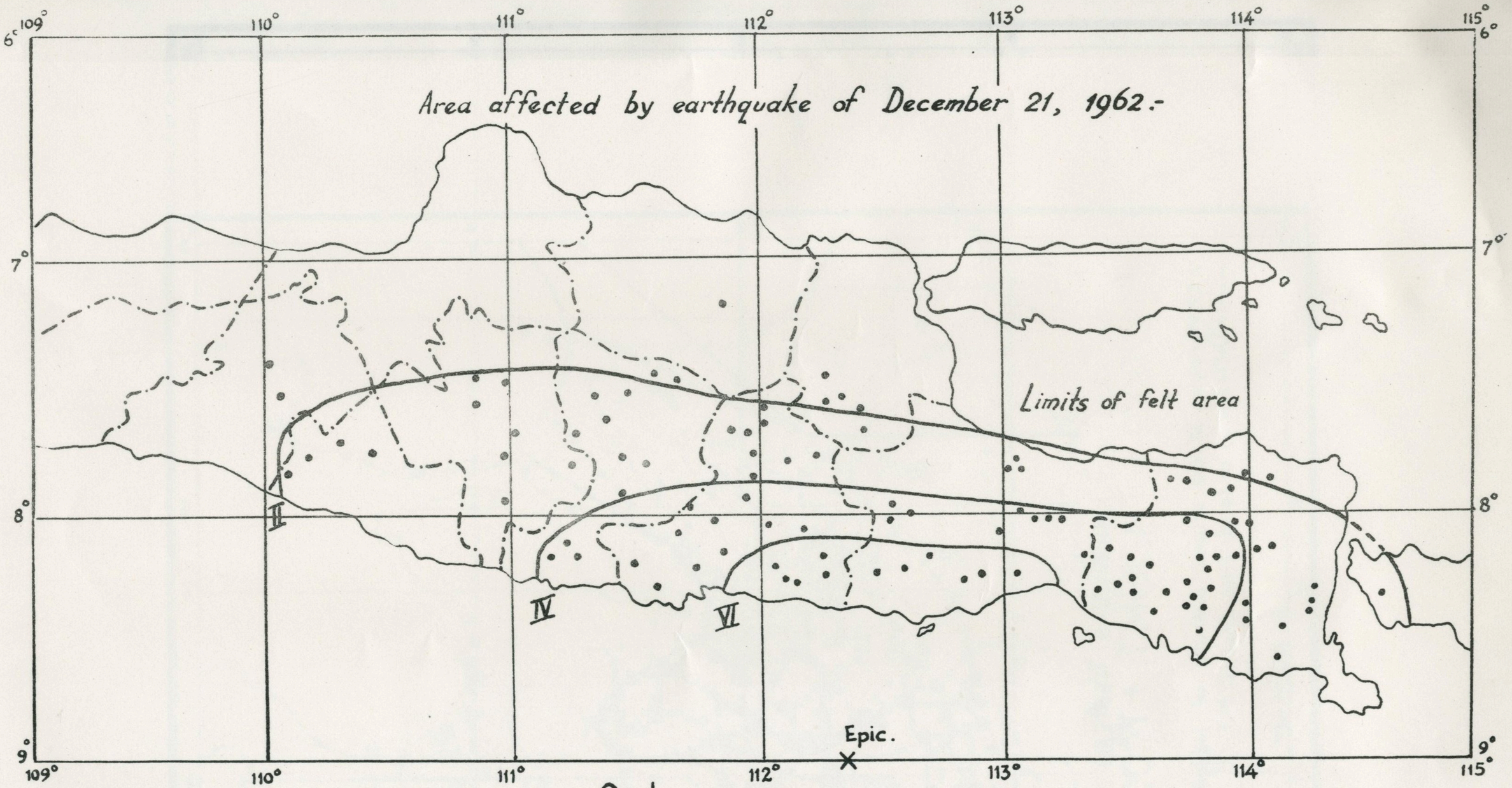
No.	Date	Time (GMT)	Epicenter Lat.	Epicenter Long.	Depth	Magn.	Remarks Table I
	March						
55.	2	00 28 12.7	6.1 N	— 125.9 E	100 km	—	—
56.	2	04 18 09.0	0.8 N	— 123.9 E	194 ,	—	—
57.	2	13 02 56.0	5.5 N	— 126.5 E	—	—	—
58.	3	04 53 54.7	0.1 N	— 122.0 E	25 „	—	—
59.	3	10 01 17.4	0.1 S	— 126.5 E	25 „	—	—
60.	3	12 14 52.1	7.4 N	— 126.5 E	90 „	—	—
61.	4	08 26 14.4	1.4 S	— 120.2 E	144 „	—	—
62.	4	14 14 16.4	0.9 S	— 121.4 E	168 „	—	—
63.	5	03 42 33.3	4.0 S	— 103.3 E	78 „	—	40
64.	7	17 34 25.6	2.1 S	— 133.9 E	89 „	—	—
65.	7	21 17 09.0	0.0	— 123.9 E	25 „	—	—
66.	7	21 57 08.8	0.0	— 123.9 E	25 „	5¾	USCGS
67.	8	20 52 38.1	1.2 N	— 126.1 E	43 „	—	—
68.	10	00 57 22.3	6.5 S	— 129.4 E	202 „	—	—
69.	10	03 01 17.5	3.8 N	— 97.7 E	25 „	—	42
70.	11	16 20 01.0	4.5 N	— 97.2 E	—	—	—
71.	11	19 19 05.6	9.0 N	— 126.7 E	25 „	—	—
72.	11	19 58 49.6	8.7 N	— 126.3 E	171 „	—	—
73.	11	21 23 10.5	8.7 N	— 126.2 E	157 „	—	—
74.	12	01 07 38.7	4.6 N	— 125.8 E	44 „	—	—
75.	13	11 21 48.6	2.9 N	— 128.8 E	152 „	—	—
76.	13	14 13 44.0	7.7 S	— 106.4 E	—	—	—
77.	14	08 27 22.4	8.8 N	— 126.8 E	28 „	—	—
78.	15	21 13 04.1	7.1 S	— 106.1 E	83 „	—	45
79.	17	16 23 45.0	7.5 S	— 105.8 E	—	—	—
80.	17	18 56 39.3	9.8 N	— 122.5 E	25 „	—	—
81.	18	14 54 59.3	9.1 N	— 126.4 E	44 „	—	52
82.	19	20 57 24.2	4.3 S	— 103.1 E	100 „	—	—
83.	19	15 54 24.2	0.3 N	— 123.5 E	53 „	—	—
84.	20	09 15 55.0	7.3 N	— 93.5 E	—	—	—
85.	20	16 15 37.0	4.3 N	— 144.0 E	—	—	—
86.	21	22 57 51.2	5.9 S	— 113.0 E	631 ,	—	strong
87.	22	00 14 43.1	5.9 S	— 112.9 E	611 „	—	53
88.	22	00 37 36.8	6.0 S	— 113.0 E	595 „	—	veriy strong
89.	22	15 13 03.9	3.2 S	— 142.3 E	25 „	5¾	USCGS
90.	22	16 16 26.4	2.1 S	— 139.3 E	44 „	—	—
91.	22	17 16 09.0	2.0 S	— 139.4 E	32 „	—	—
92.	22	19 47 20.4	2.1 S	— 139.0 E	57 „	—	—
93.	24	02 07 07.0	9.8 S	— 120.8 E	—	—	—
94.	24	12 59 30.9	5.7 S	— 145.0 E	111 „	—	—
95.	24	15 25 16.1	2.1 S	— 138.8 E	84 „	—	—
96.	24	15 25 16.1	2.1 S	— 138.8 E	84 „	—	—
97.	25	05 28 30.7	5.8 S	— 130.7 E	38 „	—	—
98.	25	21 44 40.8	1.6 N	— 127.1 E	60 „	—	—
99.	25	21 44 45.8	1.6 N	— 127.2 E	60 „	—	—
100.	25	22 22 55.0	6.5 S	— 104.8 E	—	—	—
101.	26	03 10 53.5	0.5 S	— 127.6 E	55 „	—	—
102.	26	13 25 49.0	9 S	— 104.8 E	—	—	—
103.	27	05 22 32.0	3.9 S	— 129.1 E	96 „	—	54
104.	28	04 05 24.6	1.4 N	— 97.5 E	74 „	—	55
105.	29	19 22 54.0	6 S	— 105.2 E	—	—	—
106.	29	21 09 01.9	0.5 S	— 127.4 E	25 „	—	—
107.	29	16 01 00.0	6.5 S	— 105.2 E	—	—	—
108.	31	02 12 09.0	6.3 S	— 104.0 E	—	—	—
109.	31	07 44 36.0	9.8 N	— 121.6 E	156 „	—	—

No.	Date	Time (GMT)	Epicenter Lat.	Epicenter Long.	Depth	Magn.	Remarks Table I
	April						
110.	1	12 11 09.2	4.2 S	— 143.6 E	80 km	—	57
111.	1	12 18 31.8	7.6 S	— 130.9 E	30 „	—	—
112.	1	13 57 22.0	7.8 S	— 105.8 E	—	—	—
113.	3	03 31 34.0	7.7 S	— 105.8 E	—	—	—
114.	3	15 40 12.1	4.5 S	— 143.2 E	30 „	—	—
115.	5	18 18 23.9	5.2 S	— 102.1 E	36 „	—	—
116.	6	04 25 27.0	7.3 S	— 105.8 E	—	—	—
117.	6	06 05 52.6	4.2 S	— 143.3 E	63 „	—	—
118.	7	06 21 38.4	10.0 N	— 144.4 E	50 „	—	—
119.	7	20 56 48.4	7.3 S	— 130.4 E	25 „	—	—
120.	8	04 28 40.5	4.1 S	— 141.5 E	115 „	—	—
121.	9	08 54 22.7	8.6 S	— 124.1 E	46 „	—	—
122.	9	10 23 49.9	8.7 N	— 126.5 E	100 „	—	—
123.	11	10 57 37.8	9.0 N	— 126.9 E	31 „	—	—
124.	12	11 19 37.0	3.5 S	— 103.5 E	—	—	—
125.	12	11 24 01.0	9.3 S	— 105.4 E	—	—	62
126.	13	02 19 07.9	1.0 N	— 122.3 E	37 „	—	—
127.	13	03 37 53.0	6.9 S	— 105.5 E	—	—	63
128.	13	04 03 22.0	6.5 S	— 105.8 E	—	—	—
129.	16	19 48 30.0	6.8 S	— 106.0 E	—	—	64
130.	17	15 15 10.2	7.0 S	— 129.1 E	140 „	—	—
131.	20	22 50 56.0	7.7 S	— 106.0 E	—	—	—
132.	21	02 25 42.0	7.2 S	— 105.8 E	—	—	—
133.	21	04 12 45.0	8.6 S	— 104.8 E	—	—	—
134.	21	21 18 01.7	6.5 S	— 144.6 E	42 „	—	—
135.	23	14 51 26.0	6.9 S	— 128.4 E	83 „	—	—
136.	30	20 39 45.1	6.4 N	— 124.0 E	28 „	—	—
	May						
137.	1	09 54 20.6	5.8 S	— 125.5 E	621 „	—	—
138.	7	04 56 38.4	4.1 S	— 143.7 E	113 „	—	—
139.	11	04 52 43.4	6.4 S	— 143.6 E	37 „	—	—
140.	13	05 49 29.0	7.0 S	— 105.9 E	—	—	—
141.	13	10 46 23.5	3.2 S	— 129.0 E	41 „	—	—
142.	14	10 33 25.5	9.0 S	— 118.7 E	30 „	—	77
143.	15	05 23 45.9	7.3 S	— 128.3 E	34 „	—	—
144.	15	06 42 58.9	7.2 S	— 128.3 E	52 „	—	—
145.	15	07 31 13.5	8.2 S	— 129.2 E	57 „	—	—
146.	15	09 55 16.5	7.2 S	— 128.2 E	30 „	—	79
147.	15	12 55 36.6	7.8 S	— 127.9 E	35 „	—	—
148.	15	13 22 49.2	7.3 S	— 128.4 E	35 „	—	—
149.	15	16 54 01.9	7.4 S	— 128.0 E	34 „	—	—
150.	16	08 18 50.7	0.9 S	— 127.0 E	34 „	—	—
151.	16	19 08 55.0	7.3 S	— 119.8 E	—	—	80
152.	16	19 09 04.2	9.3 S	— 118.4 E	47 „	—	—
153.	16	19 09 09.0	9.3 S	— 101.5 E	—	—	—
154.	17	09 20 04.0	7.2 S	— 128.0 E	35 „	—	—
155.	19	20 57 34.0	6.4 S	— 102.9 E	—	—	—
156.	20	16 49 26.0	7.0 N	— 126.5 E	—	—	—
157.	20	16 49 46.0	6.2 S	— 125.8 E	47 „	—	—
158.	20	21 04 21.0	8.2 S	— 109.2 E	—	—	—
159.	23	17 10 51.7	7.3 S	— 128.4 E	25 „	—	—
160.	24	16 36 25.0	8.0 S	— 196.7 E	—	—	—
161.	26	19 44 18.0	6.7 N	— 94.6 E	60 „	—	—
162.	27	05 30 44.4	3.2 S	— 129.5 E	82 „	—	—
163.	28	10 41 30.0	8.2 S	— 109.2 E	—	—	—
164.	28	20 03 28.0	7.8 S	— 105.8 E	—	—	—
165.	29	15 31 57.0	7.5 S	— 106.1 E	—	—	—
166.	30	20 45 06.0	7.4 S	— 105.6 E	—	—	—

No.	Date	Time (GMT)	Epicenter Lat.	Epicenter Long.	Depth	Magn.	Remarks Table I
	June						
167.	1	01 22 27.4	3.9 S	— 137.9 E	166 km	—	—
168.	1	09 01 56.8	6.9 S	— 129.2 E	140 „	—	—
169.	5	16 43 44.8	7.1 S	— 129.2 E	124 „	—	—
170.	6	21 39 07.0	7.4 S	— 106.4 E	—	—	—
171.	9	07 40 18.5	9.0 N	— 126.6 E	65 „	—	—
172.	16	06 27 29.8	0.2 S	— 122.8 E	177 „	—	—
173.	18	16 59 11.7	0.8 S	— 133.8 E	25 „	—	—
174.	19	04 45 45.0	7.3 S	— 106.4 E	—	—	—
175.	19	15 15 30.0	5.9 S	— 104.9 E	—	—	—
176.	20	06 16 22.6	6.9 S	— 126.6 E	272 „	—	—
177.	21	03 23 21.0	4.9 N	— 122.7 E	600 „	—	—
178.	25	12 49 41.8	3.7 N	— 126.6 E	25 „	—	—
179.	28	11 02 50.5	2.4 S	— 127.7 E	72 „	—	—
180.	28	11 17 48.6	7.7 S	— 107.9 E	94 „	—	94
181.	28	18 50 27.5	0.2 S	— 124.3 E	58 „	—	—
182.	29	13 49 16.9	7.9 S	— 127.3 E	80 „	—	97
	July						
183.	2	15 42 22.1	0.2 S	— 123.1 E	136 „	—	100
184.	5	10 32 28.8	0.6 S	— 139.0 E	25 „	—	101
185.	7	11 47 19.4	7.4 S	— 128.3 E	30 „	—	—
186.	8	17 20 01.2	0.3 S	— 121.8 E	58 „	—	—
187.	8	19 44 10.0	7.6 S	— 106.0 E	—	—	—
188.	18	05 53 48.1	9.6 S	— 119.8 E	68 „	—	104
189.	18	09 23 37.5	7.2 S	— 119.9 E	588 „	—	—
190.	20	23 31 37.5	5.6 S	— 128.7 E	297 „	—	—
191.	22	00 16 07.2	3.2 S	— 137.5 E	104 „	—	—
192.	23	01 16 38.0	7.0 S	— 106.6 E	—	—	—
193.	25	22 11 34.0	8.1 S	— 106.9 E	—	—	—
194.	27	00 28 02.0	9.3 S	— 101.4 E	—	—	—
195.	30	17 16 44.4	3.3 S	— 143.9 E	25 „	—	—
196.	31	02 19 05.2	3.2 S	— 144.1 E	20 „	—	—
197.	31	15 34 52.0	7.8 S	— 109.9 E	—	—	—
	August						
198.	1	04 18 26.7	5.5 N	— 125.3 E	33 „	—	—
199.	1	04 51 22.0	3.2 S	— 143.7 E	33 „	—	—
200.	2	18 51 21.6	4.5 S	— 125.0 E	563 „	—	—
201.	3	07 27 09.0	7.9 S	— 107.4 E	—	—	107
202.	7	08 44 43.7	4.8 N	— 127.8 E	33 „	—	—
203.	11	18 12 54.0	6.6 S	— 130.3 E	170 „	—	—
204.	13	14 44 33.3	1.9 N	— 127.5 E	33 „	—	—
205.	14	19 54 56.6	9.3 S	— 110.3 S	182 „	—	—
206.	15	08 28 55.0	5.4 N	— 123.5 E	—	—	—
207.	15	08 29 46.7	4.7 N	— 122.6 E	620 „	—	—
208.	17	07 03 18.0	7.5 S	— 106.1 E	—	—	—
209.	19	21 19 54.6	4.5 N	— 123.2 E	552 „	—	—
210.	20	12 58 24.1	12.4 S	— 112.1 E	87 „	—	—
211.	20	15 15 15.6	1.7 S	— 133.8 E	33 „	—	112
212.	22	21 08 22.9	8.3 N	— 123.8 E	125 „	—	—
213.	23	18 40 32.0	9.3 S	— 107.5 E	—	—	—
214.	25	03 12 36.0	7.9 S	— 106.5 E	—	—	—
215.	26	07 58 37.6	0.1 N	— 121.3 E	185 „	—	—
216.	26	23 30 38.0	8.3 N	— 123.8 E	125 „	—	—

No.	Date	Time (GMT)	Epicenter Lat.	Epicenter Long.	Depth	Magn.	Remarks Table I
	September						
217.	1	21 16 57.0	5.0 S	— 103.4 E	—	—	—
218.	2	23 56 53.6	7.0 S	— 124.8 E	470 km	—	—
219.	5	11 17 06.7	3.5 S	— 139.9 E	110 „	—	—
220.	5	14 05 38.0	8.7 S	— 102.5 E	—	—	—
221.	6	11 10 50.3	4.0 S	— 126.4 E	33 „	—	—
222.	7	07 07 27.8	3.2 S	— 128.0 E	216 „	—	—
223.	7	07 41 51.0	6.3 S	— 130.0 E	180 „	—	—
224.	18	06 10 26.3	2.3 N	— 126.9 E	33 „	—	—
225.	19	18 06 44.4	9.9 S	— 120.5 E	34 „	—	—
226.	20	16 38 24.6	4.7 S	— 139.4 E	33 „	—	—
227.	24	22 01 11.5	0.2 N	— 124.0 E	—	—	—
228.	25	18 27 03.0	3.6 S	— 128.3 E	33 „	—	—
229.	27	12 56 18.6	4.6 S	— 104.4 E	144 „	—	—
230.	27	12 56 31.0	6.5 S	— 107.9 E	—	—	—
231.	28	06 13 18.0	5.8 S	— 102.6 E	—	—	—
232.	30	14 53 27.0	7.4 S	— 106.2 E	—	—	—
	October						
233.	1	07 50 52.8	6.5 N	— 95.1 E	33 „	—	—
234.	1	08 59 56.0	8.8 S	— 105.9 E	—	—	—
235.	2	12 35 47.7	0.6 S	— 122.9 E	33 „	—	—
236.	2	19 51 53.4	2.1 N	— 126.2 E	35 „	—	—
237.	3	11 57 21.8	4.5 S	— 144.0 E	108 „	—	—
238.	4	22 21 36.0	4.4 S	— 104.0 E	—	—	—
239.	5	21 59 40.2	6.1 S	— 130.8 E	31 „	—	—
240.	6	21 37 57.4	5,3 S	— 145.0 E	43 „	—	—
241.	7	12 35 30.9	4.9 S	— 144.3 E	75 „	—	—
242.	10	13 33 10.3	8.9 S	— 110.3 E	33 „	—	—
243.	10	13 33 11.6	8.9 S	— 110.4 E	41 „	—	124
244.	10	16 00 58.0	7.3 S	— 106.4 E	—	—	—
245.	14	01 38 38.8	1.5 N	— 99.0 E	100 „	—	—
246.	14	14 08 11.3	1.0 S	— 127.2 E	33 „	—	—
247.	19	01 34 14.4	3.4 S	— 129.1 E	58 „	—	—
248.	19	23 42 34.9	5.9 S	— 130.3 E	177 „	—	—
249.	20	05 30 42.2	6.7 S	— 130.1 E	167 „	—	—
250.	25	09 34 04.0	2.3 N	— 125.3 E	—	—	—
251.	26	20 22 58.6	0.1 N	— 124.1 E	112 „	—	—
252.	28	15 00 17.0	0.1 N	— 123.6 E	61 „	—	—
253.	30	15 47 27.0	7.7 S	— 106.0 E	—	—	—
	November						
254.	1	00 09 27.0	9.1 S	— 106.5 E	—	—	—
255.	1	15 33 22.6	1.9 N	— 133.0 E	56 „	—	—
256.	1	15 57 43.0	1.7 N	— 132.9 E	58 „	—	—
257.	1	17 52 20.2	1.9 N	— 132.8 E	36 „	—	—
258.	2	14 46 39.2	10.0 S	— 117.8 E	33 „	—	—
259.	2	15 12 37.2	10.2 S	— 117.6 E	33 „	—	—
260.	3	03 12 37.8	10.3 S	— 117.8 E	33 „	—	—
261.	3	05 00 29.7	10.3 S	— 117.8 E	33 „	—	—
262.	3	15 38 09.3	2.6 S	— 139.5 E	94 „	—	—
263.	3	19 04 20.8	4.5 S	— 103.4 E	33 „	—	—
264.	3	20 26 07.0	2.8 S	— 129.2 E	41 „	—	—
265.	4	01 12 28.0	7.0 S	— 103.9 E	—	—	—
266.	4	05 56 09.0	8.0 S	— 106.7 E	—	—	—
267.	7	16 03 04.1	7.8 S	— 119.8 E	156 „	—	130

No.	Date	Time (GMT)	Epicenter Lat.	Epicenter Long.	Depth	Magn.	Remarks Table I
268.	9	18 02 27.9	5.4 S	— 132.5 E	33 km	—	—
269.	10	21 13 25.5	9.8 S	— 123.8 E	33 „	—	—
270.	14	21 59 16.1	0.3 S	— 123.0 E	92 „	—	—
271.	15	17 10 32.0	7.5 S	— 106.6 E	—	—	—
272.	17	14 21 30.6	2.8 N	— 121.7 E	609 „	—	—
273.	18	06 43 08.3	0.2 S	— 125.1 E	56 „	—	—
274.	20	00 28 38.0	7.2 S	— 106.6 E	—	—	—
275.	20	13 00 00.3	1.8 N	— 126.4 E	109 „	—	—
276.	22	06 18 34.0	6.7 S	— 105.7 E	—	—	—
277.	23	10 41 57.6	4.0 S	— 142.2 E	100 „	—	—
278.	23	13 11 21.0	8.1 S	— 106.7 E	—	—	134
279.	27	19 30 00.0	8.1 S	— 106.3 E	—	—	—
280.	28	15 25 58.7	9.9 N	— 93.4 E	53 „	—	—
281.	30	16 53 14.6	3.2 N	— 127.1 E	58 „	—	—
	December						
282.	2	20 11 39.0	7.4 S	— 100.4 E	—	—	—
283.	3	19 29 57.0	7.3 S	— 105.3 E	—	—	—
284.	4	19 31 31.5	4.9 N	— 122.8 E	627 „	—	—
285.	5	05 02 59.0	5.6 S	— 103.5 E	—	—	—
286.	6	10 45 34.0	8.9 S	— 106.8 E	—	—	—
287.	9	17 37 46.9	7.1 S	— 129.1 E	194 „	—	—
288.	11	18 09 58.6	3.9 S	— 143.6 E	33 „	—	—
289.	12	22 56 45.8	4.6 N	— 96.5 E	138 „	—	141
290.	13	16 45 59.1	2.8 N	— 127.9 E	33 „	—	—
291.	14	08 41 58.0	7.4 S	— 106.5 E	—	—	—
292.	14	10 50 07.0	8.0 S	— 102.0 E	—	—	—
293.	15	12 00 17.0	8.5 S	— 104.5 E	—	—	—
294.	16	05 25 26.6	3.1 S	— 139.5 E	43 „	—	—
295.	17	02 15 49.7	4.2 S	— 127.6 E	33 „	—	—
296.	17	11 00 16.0	2.1 N	— 122.9 E	239 „	—	—
297.	17	12 29 52.2	0.2 N	— 124.3 E	126 „	—	—
298.	17	22 02 45.2	8.2 S	— 120.5 E	151 „	—	—
299.	18	12 37 16.1	2.7 N	— 129.1 E	96 „	—	—
300.	21	00 44 15.0	12.0 S	— 107.6 E	—	—	—
301.	21	00 44 19.7	9.0 S	— 112.4 E	64 „	—	144
302.	22	01 59 34.0	12.4 S	— 105.4 E	—	—	—
303.	22	01 59 50.0	9.2 S	— 112.4 E	69 „	—	145
304.	22	02 30 30.0	7.9 S	— 102.2 E	—	—	—
305.	22	09 24 41.5	0.9 N	— 125.8 E	33 „	—	—
306.	22	10 40 22.0	9.5 S	— 111.3 E	—	—	—
307.	22	14 09 29.7	4.7 N	— 125.7 E	18 „	—	—
308.	22	19 34 27.0	6.9 S	— 104.3 E	—	—	—
309.	26	03 10 40.0	7.3 S	— 106.4 E	—	—	147
310.	29	04 12 09.0	2.4 N	— 127.1 E	33 „	—	—
311.	30	06 00 50.0	7.4 S	— 106.3 E	—	—	
312.	31	02 48 35.5	8.1 S	— 120.9 E	33 „	—	149



Scale = 1: 2.500.000 . K.- July 1964.-

Fig : A

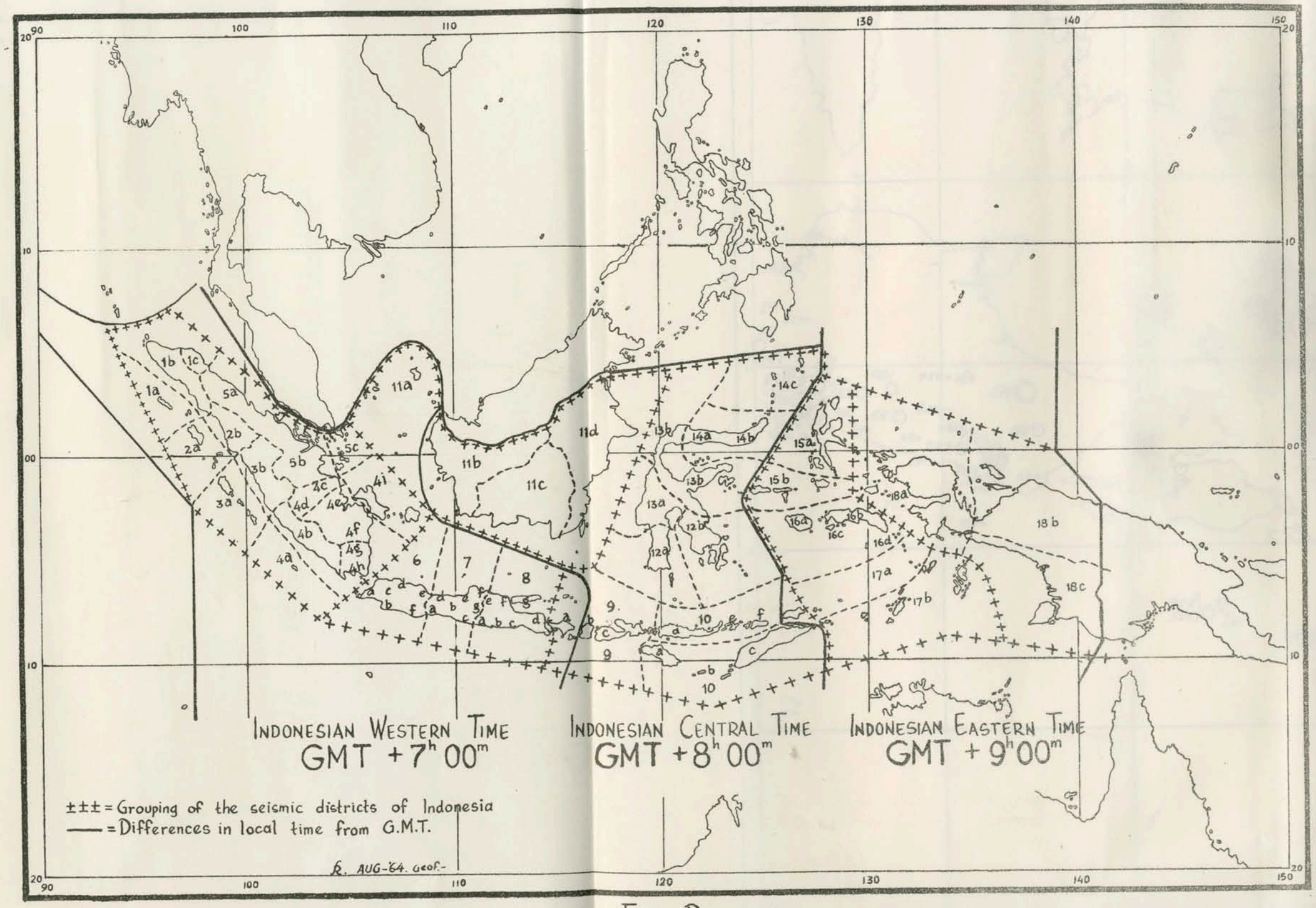
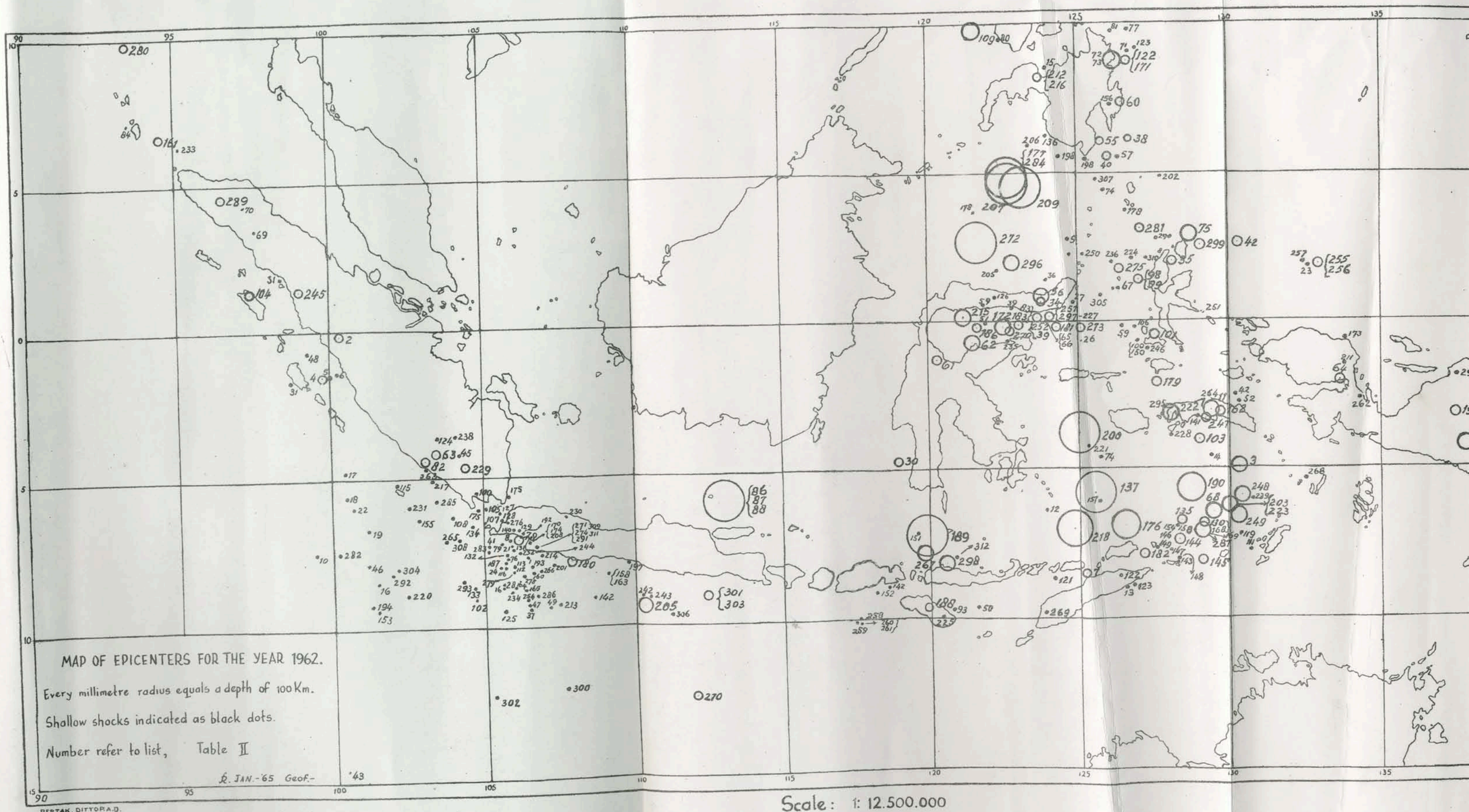


Fig.: B.



RERTAK. DITTORA.D.

Scale: 1: 12.500.000

Fig: C

Scale: 1: 12.500.000

Fig: C