

May June copy
M.H.

Ministry of Communication
Meteorological and Geophysical Institute
DJAKARTA.-
S E I S M O L O G I C A L B U L L E T I N
MAY, JUNE 1956.

Geographical position of the stations

Djakarta: Lat. $06^{\circ}11'S$ Long. $106^{\circ}50'E$ h = 8m.
Foundation : River Quarternary
Seismograph: Wiechert Z 1300 Kg.
Wiechert N & E 1000 Kg.

Bandung : Lat. $06^{\circ}54'S$ Long. $107^{\circ}39'E$ h = 726m.
Foundation : Quarternary volcanics
Seismograph: Wiechert N & E 1000 Kg.

Lembang : Lat. $06^{\circ}50'S$ Long. $107^{\circ}37'E$ h = 1295 m.
Seismograph: Sprengnether Z (T=1.4 sec.)
Sprengnether N (T=2.4 sec.)
Sprengnether E (T=2.5 sec.)

Medan : Lat. $03^{\circ}33'N$ Long. $98^{\circ}41'E$ h = 32m.
Foundation : Marine sediments
Seismographs: Sprengnether Z (T = 1,5 sec)
Sprengnether N (T = 1,5 sec)
Sprengnether E (T = 1,5 sec)

Constants of the Wiechert Seismographs.

Djak.		NS-Component					EW-Component					Z-Component				
1956	T r	E	V	e	T	r	E	V	e	T	r	E	V	e	T	r
May	7.7	0.12	2.16	214	1.20	7.6	0.08	2.35	226	1.40	4.0	0.12	1.69	3300	1.31	
June	7.7	0.12	2.49	218	1.19	7.7	0.09	2.46	218	1.40	4.0	0.09	2.52	300	1.41	
Band.		NS-Component					EW-Component									
May	5.4	0.05	1.86	199	1.24	4.9	0.07	1.33	202	1.42						
June	5.4	0.05	1.79	201	1.18	4.8	0.07	1.37	221	1.34						

Abbreviations: used in the bulletin

D = Djakarta station
B = Bandung station
L = Lembang station
M = Medan station

c = a compressive first movement.
d = a dilatational first movement.

Remarks :

In the month of February 1956 a complete short-period Sprengnether Seismograph was established at Medan. During the period in this bulletin the seismographs were not yet in perfect condition. Only some earthquakes could be read from the NS-Component.

Meteorological & Geophysical Institute

-(Prof. R. Goenarso).-
Director.

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1.

No.	Date	Stat.	Comp.	Phase	G.	M.	T.	Dir.	Remarks
May 1956.									
296	1 -	D	Z	iP	02	43	13	✓ d	0=02h 42m 08s
			N	iS		44	03	✓	Felt in Benkulen (South-Sumatra).
	1 x		E	e		53	15		in. min. break
			E	eScS		57	33	✓ 4 0	Epic: 4 1/2 S, 103E (USCGS)
			F	F	03	15			
	1 -	B	NE	eP	02	43	25	✓ 1A-2	5.0 3
			N	eS		44	25	✓	
			NE	eScS		57	34	✓	
			F	F	03	05			
	1 -	L	ZEN	iP	02	43	23	✓ c/E/S	
			NE	eScS		57	30	✓	
			F	F	03	10			no clear S-wave
	1 -	M	N	eP	02	44	31	✓ N	
			F	F	03	00			
297	1 -	L	Z	e	03	43	33		very faint
			F	F	03	50			
298	1 -	M	N	eP	05	23	38		very faint
			F	F	05	26			
299	1 -	L	Z	i	07	12	48	d	
			F	F	07	17			
300	1 -	L	Z	iP	11	16	30	c	faint
			F	F	11	20			
301	1 -	L	Z	iP	13	09	01	d	very faint
			F	F	13	12			Epic: Tonga Islands
302	2 -	L	Z	e	01	51	33		faint (USCGS).
			F	F	01	55			
303	2 -	L	Z	eP	02	49	56		20.5
			E	eS?		53	41		0=02h 45m 14s
			F	F	03	00			Epic: Banda sea, about 150 miles NE of Timor Island (USCGS).
	2 x	D	Faint traces at about the same time.						
304	2 x	L	Faint traces between 04h 03m and 04h 20m.						
305	2 -	L	Z	iP	06	42	05	d	deep focus
			F	F	06	45		✓	Epic: 28N, 139 1/2 E
									h about 550 Km (USCGS)
306	3 -	M	N	e	07	02	53		faint
			F	F	07	06			
307	3 -	L	Z	iP	21	40	49	d	very faint
			F	F	21	45			
308	4 -	L	Z	iP	14	01	12	c	faint
			F	F	14	07			
309	4 -	L	Z	iP	14	26	12	c	faint
			F	F	14	30			
310	4 -	L	Z	iP	18	51	06	c	faint
			F	F	19	00			77.9
311	5 -	L	Z	e P	03	24	26	✓	26.6
			F	F	03	40			Epic: 17N, 122E (USCGS)
									very faint
									Epic: 15 1/2 S, 173W (USCGS)
									h about 100 Km
									Mag: 6 (Pas).

+10 m

No.	Date	Stat.	Comp.	Phase	G..M. T.	Dir.	Remarks
MAY 1956.							
312	5-	L	Z	iPKP	12 58 45	✓	Epic: 28 ¹ ₂ S, 69W h about 150 Km (USCGS).
			Z	ePP	13 02 12	✓	
			F		13 05		
313	6-	D	Z	eP	03 27 00		small
			NE	eS	26		0 = 03h 26m 25s
			F		03 33		
	6-	L	Z	eP	03 27 12		
			F		03 33		
314	6-	L	Z	e	05 08 52		small
			F		05 15		
315	7-	L	Z	ePKP	08 36 39	✓	very faint Epic: 14 ¹ ₂ N, 90 ¹ ₂ W; h about 200 Km (USCGS).
			F		08 41		
316	7-	D	Z	eP	11 06 03	✓	41.1 0 = 10h 58m 16s.
			Z	ePP	07 41	✓	
			E	ePPP	08 10	✓	
			N	eS	12 17	✓	
			E	eSS	15 17		
			E	eSSS	52		
			NE	eL	18 0	✓	Epic: 46 ¹ ₂ S, 96E (USCGS). Mag: (1/4) (Pas).
			F		12 00		
	7-	B	NE	eP	11 05 55	✓	40.0 in min. break
			N	eS	12 01	✓	
			F		11 40		faint
	7-	L	Z	iP	11 05 56	✓	40.7 in min. break
			ZEN	eS	12 07	✓	
			N	eSS	15 04	✓	
			NE	eL	17 0	✓	
			F		12 00		
17	7x	L	Z	Faint traces between 18h 46m and 18h 50m			Epic: 510N, 141 ¹ ₂ E (USCGS).
18	8-	L	Z	eP	12 58 06		in min. break
			F		13 01		very faint Epic: Fiji Islands region; h about 400 Km (USCGS).
9	10-	L	Z	eP	01 31 08		small
			NE	eS?	28		±1.5
			F		01 34		0 = 01h 30m 30s
0	10-	L	Z	e	05 52 14		very faint
			F		05 57		Epic: 12N, 143E; h about 100 Km (USCGS)
1	10-	L	Z	iP	12 00 07	d	small
			F		12 03		
2	10-	L	Z	iP	16 36 00	d	small
			NE	eS?	15		1.0
			F		16 40		0 = 16h 35m 39s
	11-	D	Z	eP	13 07 46		1.5
			NE	eS	08 06		
			F		13 15		time corr. uncertain.
	11-	B	NE	eP	13 07 27		0.5
			N	eS?	36		
			F		13 13		
	11-	L	Z	iP	13 07 12	c	
			F		13 13		
	12-	L	Z	eP	06 32 19		in min. break
			F		06 37		faint
	13-	L	Z	iP	02 17 00	d	small
			NE	eS	19		±1.4
			F		02 22		0 = 02h 16m 34s

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks.
May 1956.							
326	13-	L	Z NE	eP eS? F	07 08 03 19	+1.0	very small. 0 = 07h 07m 40s
327	13 -	L	Z	i F	16 41 01 16 45	d	faint.
328	13 -	L	Z E	eP e F	20 12 54 14 43 20 30		
	13 -	D	Z	iP F	20 12 25 20 20	d	faint time corr. uncertain.
	13 -	B	E NE	eP e F	20 12 53 13 41 20 20		faint.
329	15 -	L	Z Z	ePKP i F	12 53 14 54 08 12 57	c	very faint Epic: 6S, 82W (USCGS).
330	17 -	L	Z Z	ePKP ePP F	06 19 39 23 46 06 28	✓ c	very faint. Epic: 16S, 72W; h about 60 Km (USCGS)
331	18 -	L	Z	iP F	08 29 54 08 32	d	very faint Epic: 17S, 179W; h about 600 Km (USCGS).
332	19 -	D	Z N	eP eS F	01 39 24 46 44 02 10	✓ 51.5	in min. break 0 = 01h 30m 15s Epic: 7S, 156E (USCGS).
	19 -	L	Z N NE	eP eS eScs F	01 39 17 46 30 49 07 02 00	✓ 50.4	
333	19 -	B	NE NE N	eP eS eScs F	01 39 15 46 26 49 08 01 55	✓ 50.2	
	19 x	M	N	Faint traces between 01h 40m and 01h 46m.			
333	19 -	L	Z Z E E E	iP ePP eS eSS eL F	20 13 06 15 33 21 55 26 13 30 19 20 50	✓ d 66.3	0 = 20h 02m 14s
	19 -	D	Z E	eP eS F	20 13 05 21 53 20 50	✓ 66.1	Epic: 40S, 43E (USCGS).
	19 -	B	E	e F	20 13 14 20 30	✓	no clear min. marks very faint
	19 x	M	N	Faint traces between 20h 13m and 20h 30m			
334	20 -	L	Z E	eP eS F	14 51 59 52 23 14 56	+1.8	in min. break 0 = 14h 51m 26s
335	20 -	L	Z	eP F	18 00 48 18 03	c	very faint Epic: Marshall Islands (USCGS)
336	21 -	L	Z	ePKP F	00 49 30 00 55	✓	very faint Epic: Northern Chile; h about 100 Km (USCGS).
337	21 x	L	Faint traces between 07h 53m and 08h 02m.				
338	22 -	L	Z	eP F	02 09 45 02 20		in min. break faint Epic: 2N, 126E (USCGS).

Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
Y 1956.						
9 22 -	L	Z E	eP eS F	03 13 0 23 02 03 30	✓ ✓ ✓	77.9 in min. break O = 03h 01m 08s faint Epic: 15½S, 173W (USCGS)
0 22 -	D	Z E E ZE E E E	iP eP ePcP ePP eS eScS iSSS F	13 43 46 48 45 14 43 49 50 52 41 55 43 14 10	✓ c W ✓ ✓ ✓ E	45.7 O = 13h 36m 12s h about 550 km Epic: 4S, 152½E (USCGS)
22 -	B	NE NE N N	eP eS e eSS F	13 43 38 49 36 51 53 58 44 14 00	✓ ✓ ✓ ✓ W	44.8 in min. break
22 -	L	ZEN E E	iP iS eScS F	13 43 41 49 41 52 37 14 05	✓ ✓ ✓ W	45.0
22 -	M	N	eP F	13 43 58 14 00	✓	faint
41 23 -	L	Z NE	iP eS F	08 55 58 56 16 09 00	c	+1.1 small local shock in min. break O = 08h 55m 35s
42 23 -	L	Z Z Z	iP ePP ePP F	10 23 11 33 24 41 10 30	c	faint Epic: 6S, 67E (USCGS).
43 23 -	L	Z	iP F	16 52 36 16 55	d	very faint Epic: Fiji Islands (USCGS).
44 23 -	D	Z NE N N N N N NE	iP iP ePP iS iPS iSS eSS eSSS F	20 59 19 21 21 21 02 14 0 08 13 10 05 55 12 56 16 24 22 25	✓ c N/W ✓ N N N	73.3 O = 20h 48m 30s Max. ampl. in S-wave h about 400 Km Epic: 15½S, 179W (USCGS). Mag: 7 1/4 (Pas) (Berk)

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
MAY 1956.							
	23 -	B	NE	1P	20 59 16	N/W	72°7
			NE	1S	21 08 07		
			N	eSS	10 45		
			E	eSS	12 58		
				F	22 00		
	23 -	L	ZE	1P	20 59 15	e/W	72°6
			NE	ePP	21 00 50		
			NE	1S	08 05	N/E	
			N	eScS	47		
				F	22 20		
345	24 -	D	Z	1P	03 31 57	d	faint.
			N	e	35 59		
				F	03 50		
	24 -	L	Z	1P	03 31 47	d	faint.
				F	03 40		
346	24 -	L	Z	Faint traces between 12h 08m and 12h 13m.			
347	24 -	D	Z	1P	20 05 07	d	24°8 faint
			N	eS	09 28		
				F	20 15		Epic: 5S, 131 E(USCGS)
	24 -	L	Z	eP	20 05 01		24°2
			E	eS	09 17		O = 19h 59m 42s
				F	20 20		
348	25 -	L	Z	eP	00 53 34		faint
				F	01 10		Epic: 1N, 97½E (USCGS)
	25 -	B	e	eP	00 53 40		no min. marks
				F	01 10		time corr. uncertain
349	25 -	L	Z	eP	02 27 02		faint
				F	02 33		Epic: About 700 miles northeast of Mascarene Islands (USCGS).
350	26 -	D	Z	eP	08 31 51	d	19°7 O = 08h 30m 17s
			N	eS	38 28		
			E	eL	40.5		
				F	09 00		Epic: 4S, 126½E (USC)
	26 -	L	Z	eP	08 34 40		18°8 in min. break
			NE	eS	38 07		
			E	eL	40.0		
				F	09 00		
	26 -	B	E	eP	08 34 42		18°9
			NE	eS	38 10		
				F	09 00		
351	26 -	D	NE	e	13 29 00		faint.
				F	13 40		
	26 -	L	Z	e	13 23 16		
			E	e	31 20		
				e	38		
				F	13 40		in min. break

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
MAY 1956.							
	26-	B	NE	c F	13 31 46 13 40		
	26-	M	N	c F	13 22 28 13 36		
352	26-	L	Z	iPKP i F	18 05 56 06 44 18 10	d d	very faint Epic: 24S, 67W, h about 200 Km (USCGS).
353	26-	D	Z NE NE	iP cP iS F	20 31 57 58 40 39 20 50	73.6 N/W S/W	small dilatational fol- lowed by greater compres- sion; deep focus Epic: 19S, 178 1/2 W; h about 550 Km (USCGS). Mag: 6 1/2 (Pas) Mag: 6 1/4 (Bark)
	26-	L	Z NE	iP iS F	20 31 45 40 23 20 55	d 72.7	O = 20h 21m 16s
	26-	B	NE NE	cP iS F	20 31 46 40 25 20 55	72.8	
	26-	M	N N	cP cS F	20 33 00 42 25 20 55	82.0	
354	27-	L	Z G	cP cS? F	01 41 33 42 05 01 45	+2.5	small
355	27-	M	N N	cP cS? F	13 10 44 58 13 26	+1.0	Epic: near coast of northern Sumatra (USCGS)
	27-	L	Z	i F	13 13 50 13 20	d	faint
56	27-	L	Z NE E NE	iP iP cS iScS F	17 01 19 20 05 04 12 24 17 20	21.7 N/E E	O = 16h 56m 40s h about 150 Km. Epic: 6 1/2 S, 129 1/2 E (USCGS)
	27-	B	NE NE NE	cP cS cScS F	17 01 20 05 05 12 26 17 20	21.7	
	27-	D	Z N NE	cP c cScS F	17 01 27 06 24 13 36 17 20	c c c	no clear S-wave in min. break
	27-	M	N N	i i F	17 03 08 13 16 17 20	S N	
7	27-	L	Z	iP F	18 06 06 18 10	d	faint in strong micros Epic: Marshall Islands (USCGS).
8	28-	L	Z	cP F	09 20 44 09 25		faint Epic: 13N, 124 1/2 E (USCGS)

NO.	Date	Stat	Comp.	Phase	G.	M.	T.	Dir.	Δ	Remarks
MAY 1956.										
359	28 -	L	Z NE	iP eS F	09	40	26 35	d	0.5	small 0 = 09h 40m 12s
360	28 -	L	Z	iP F	12	30	59	d		faint
361	28 -	D	Z N N N	iP eS eSS eL F	13	27 30 32 50	06 09 28 36	d	16.4	0 = 13h 23m 13s Epic: 1N, 121 $\frac{1}{2}$ E; h about 100 Km (USCGS).
	28 -	L	Z E	eP eS F	13	26 29	56 47		15.3	
	28 -	M	N N	eP eS F	13	28 32	24 27		22.5	
	28 -	B	NE N	eP eS? F	13	26 29	56 56			in hour break
362	29 -	D	Z NE E	eP eS eSSS F	06	30 31	18 00 22		3.5	0 = 06h 29m 21s Felt in Benkulen
	29 -	B	NE NE	eP eS F	06	30 31	30 21		4.3	Epic: 4 $\frac{1}{2}$ S, 103E (USCGS).
	29 -	L	ZEN	eP F	06	30 45	28			no clear S-wave
	29 -	M	N	eP F	06	32 43	07			
363	29 -	L	Z	eP F	07	11 15	20			very small
364	29 -	L	Z	eP F	15	05 08	17			very faint
365	30 -	M	N	iP F	05	33 40	52	S		Epic: 22 $\frac{1}{2}$ S, 71W (USCGS)
366	30 -	L	Z Z E F	iP iP iS F	15	52 54 01 05	50 15 43		72.2	deep focus 0 = 15h 42m 01s
30x	M	N								Faint traces between 15h 59m and 16h 02 m
367	30x	L	Z							Faint traces between 18h 43m and 18h 45m
368	30 -	L	Z NE	eP? eS? F	23	41 42	48 38			Epic: About 100 miles of north coast of New Guinea (USCGS).
369	31 -	L	Z NE	eP F	07	11 16	33 57		+4.1	small

Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks
May 1956,						
0	31 - D	Z	eP	12 29 27	1.3	0 = 12h 29m 02s Felt in SW-Priangan (West Java).
		NE	eS	45		
			F	12 40		
	31 - B	NE	eP	12 29 18	0.7	
		NE	eS	29		
			F	12 37		
	31 - L	ZEN	iP	12 29 19	N/W	no clear S-wave
			F	12 40		
71	31 x L	Z	Faint traces between 16h 25m and 16h 30m.			Faint Epic: Fiji Islands (USCGS)
			iP	21 12 03		
			F	21 17		
72	31 - L	Z				
June 1956.						
73	1 - L	Z	iP	21 39 06	c	small in min. break time corr. uncertain time corr. uncertain
		NE	eS?	19		
			F	21 43		
74	3 - L	Z	e	01 39 20		very faint time corr. uncertain Epic: 27N, 141E (USCGS)
			F	01 45		
75	3 - L	Z	iP	13 27 26	c	in min. break time corr. uncertain Epic: Aleutan Islands (USCGS).
			F	13 41		
76	4 - L	Z	e	01 34 33		faint time corr. uncertain Epic: 31S, 178W (USCGS)
		NE	e	57		
			F	01 39		
77	4 x L	Z	Faint traces between 07h 20m and 07h 30m			time corr. uncertain Z-camp not readable. lines overlapped.
			eP	12 27 22		
			ePP	20 04		
78	4 - L	Z	F	12 30		time corr. uncertain in min. break
			iP	14 36 03	d	
			e	37 02		
79	4 - L	Z	F	14 45		0 = 05h 29m 51s h about 60 Km. Epic: 8S, 112E (USCGS).
		NE	e	14 35 36		
			F	14 45		
80	4 - D	NE				Felt in the southern part of Central and East-Java
			iP	05 30 53	d/E	
			eS	31 40		
	5 - L	ZE	eS	45 14		small 0 = 06h 03m 58s time corr. uncertain
		NE	eS	50		
		E	F	05 50		
	5 - B	NE	eP	05 30 52		0 = 12h 31m 58s Felt in Benkulen time corr. uncertain
		N	eS	31 39		
			F	05 45		
	5 - D	Z	eP	05 31 07		
		NE	eS	32 03		
			F	05 50		
81	6 - L	Z	eP	06 04 10		
		NE	eS	24		
			F	06 08		
82	6 - L	Z	eP	12 33 30		Faint traces between 12h 33m and 12h 40m.
		NE	eS	34 40		
			F	12 40		
	6 x D					

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks
JUNE 1956.							
383	7 -	M	N	eP F	16 50 56 16 56		Felt in Tapanuli no hour marks.
384	8 -	L	Z	Faint traces between 02h 02m and 02h 07m			Epic: 11 $\frac{1}{2}$ S, 168E (USCGS)
385	8 -	L	Z Z Z	iP iPP e F	12 38 20 40 17 45 21 12 50	c c	Epic: 6S, 154 $\frac{1}{2}$ E (USCGS)
386	8 -	L	Z ZE	eP eS? F	13 27 46 28 20 13 32	+2.7	small
387	8 -	L	Z Z	iPKP ePKS F	14 12 35 16 26 14 20	d	faint Epic: 30S, 70W; h about 150 Km (USCGS).
388	8 -	L	Z	eP F	18 08 52 18 13	c	small local shock.
389	9 -	L	Z Z E	iPKP iPP eSKS? F	10 28 02 30 51 35 02 10 45	d d	Epic: 30 $\frac{1}{2}$ S, 70 $\frac{1}{2}$ W (USCGS) h about 150KM. Mag: 6 $\frac{3}{4}$ (Pas).
	9 -	D	Z Z Z E	iPKP ePP ePKS eSKKS F	10 27 59 31 08 56 38 50 10 50	d	time corr. uncertain in min. break
	9 -	B	NE N	ePKP ePP F	10 27 58 31 10 10 40		
390	9 -	L	Z NE E E	iP eS eSS eL F	23 23 31 31 16 34 46 38 0 00 50	c	55.6 O = 23h 13m 51s. Epic: 35 $\frac{1}{2}$ N, 67 $\frac{1}{2}$ E (USCGS) Mag: 7 $\frac{1}{4}$ -7 $\frac{1}{2}$ (Pas) Mag: 7 $\frac{1}{2}$ (Berk).
	9 -	D	ZN Z Z NE E NE E	iP ePP ePPP eS eSS eL ML F	23 23 21 25 36 26 47 30 59 34 44 38 0 47 15 in change of paper.	c/s	54.4 time corr. uncertain
	9 -	B	NE N NE	eP eS? eL F	23 23 31 31 24 40.0 00 30	W?	
	9 -	M	N	eP F	23 21 49 00 10		
391	10 -	D	Z E	eP eS F	04 26 21 29 39 04 40	18.5	faint O = 04h 22m 03s Epic: $\frac{1}{2}$ N, 123E (USCGS)
	10 -	L	Z E	iP eS F	04 26 11 29 25 04 40	c	17.5
	10 -	B	NE	eP F	04 26 10 04 35		very faint

NO.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
JUNE 1956.							
392	10	M	N	E F	11 29 32 11 33		
393	11	L	Z	ePKP F	10 15 57 10 30	d	Epic: 27 $\frac{1}{2}$ S, 69W (USCGS) Mag: -5 $\frac{3}{4}$ - 6 (Pas). very small
394	11	L	Z	eP F	10 53 39 10 56		small local shock.
395	12	L	Z	iP F	07 54 01 08 00	d	
396	12	L		Faint traces between 14h 27m and 14h 50m.			
397	12	D	Z	iP	21 07 46	c	11.9 0 = 21h 04m 52s.
			Z	ePP	55		
			N	eS	10 01		
			N	eL	11 43		
			E	ePcP	13 34		
			F		21 25		Epic: 9S, 117 $\frac{1}{2}$ E (USCGS). in min. break
	12	L	Z	eP	21 07 32	10.9	
			E	eS	09 36		
			Z	ePcP	13 28		
			F		21 20		
	12	B	NE	eP	21 07 34		faint.
			N	e	12 46		
			E	e	13 23		
				F	21 25		
398	13	D	Z	eP	06 35 09	± 1.3	
			NE	eS	27		
				F	06 45		
	13	L	Z	eP	06 35 06	± 1.3	
			E	eS	24		
				F	06 40		
	13	B	NE	eP?	06 35 10		
			NE	eS	22		
				F	06 40		
399	13	B	NE	eP	12 11 52	18.2	0 = 12h 07m 45s h about 100 Km.
			NE	ePP	12 11		
			E	iS	15 08	W	
			E	eSSS	50		
			NE	eScS	23 28		Epic: 1S, 124 $\frac{1}{2}$ E (USCGS)
				F	12 30		
	13	D	Z	eP	12 11 45	d	18.6
			Z	ePP	12 00		
			N	eS	15 10		
			N	eSSS	47		
			E	eScS	23 55		
				F	12 35		
	13	L	Z	iP	12 11 43	d	19.1
			E	eS	15 11		
			ZE	eS.S	23 25		
				F	12 35		
400	14	L	Z	Faint traces between 12h 22m and 12h 25m.			
401	15	L		General unrest between 07h 09m and 08h 40m.			

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
JUNE 1956.							
402	15 -	L	Z	iP F	15 47 01 15 55	d	very faint Epic: About 300 miles south of Tonga Is- lands; h about 200 Km (USCGS). deeper than normal
403	15 -	D	Z	iP is F	16 23 39 53	s/E	0.9 0 = 16h 23m 19s
	15 -	L	ZEN E	iP eS F	16 23 41 56	d(E/N?)	1.0
	15 -	B	NE	i F	16 23 55 30	1/W	
404	16 -	L	Z	eP eS F	06 27 13 33 31 06 40	d	41.7 0 = 06h 19m 21s Epic: 28½N, 131½E (USCGS)
405	16 -	L	Z	e F	18 43 53 18 50		very faint Epic: Kermadec Islands (USCGS).
406	16 -	L	Z	iP F	19 47 37 19 50	c	very faint Epic: About 300 miles south of Tonga Is- lands (USCGS).
407	17 ×	L	Z	Faint traces between 03h 12m and 03h 20m.			Epic: Kermadec Islands; h about 200 KM(USCGS)
408	17 -	L	Z	eP F	21 55 09 22 00		small.
409	17 -	L	Z	eP F	22 08 08 22 13		small
410	18 -	L	Z N	eP eS F	01 00 55 01 24 01 07	2.3	small 0 = 01h 00m 16s
	18 -	B	NE NE	eP eS F	01 00 56 01 26 01 07	2.4	
	18 -	D	Z	e F	01 01 04 01 10		P-wave not readable; in hour break.
411	19 -	D	Z N	eP? eS F	00 10 43 11 13 00 19	2.4	foreshock of no. 412
	19 -	L	Z E NE	eP e F	00 10 49 11 11 32 00 19	c	
412	19 -	D	Z N E E	eP eS eSS eL F	00 19 46 20 16 28 39 00 40	c 2.4	0 = 00h 19m 06s. Epic: Southern Sumatra (USCGS).
	19 -	L	Z	eP F	00 19 56 00 40		S-wave not readable
	19 ×	B	in change of record				
413	19 -	L	Z	eP F	01 30 04 01 45		in min. break

12.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
JUNE 1956.							
414	19-	L	Z	eF	03 06 24 03 12		
415	19-	L	Z	iP	12 11 33	c	1.2 small
			NE	eS F	50 12 15		0 = 12h 11m 09s.
416	20-	L	Z	iP F	16 41 33 16 45	d	faint Epic: Tonga Islands (USCGS)
417	21-	L	Z	eP F	11 12 10 11 20		faint Epic: Western New Guinea
418	21-	L	Z Z E E E	eP ePP eS eSS eL F	19 43 19 27 45 44 46 00 47.0 20 00	12.9	0 = 19h 40m 12s strong micros Epic: 5S, 120E (USCGS).
21-	D	Z E NE N	eP eS eSS eL F	19 43 22 45 55 46 19 47 52 20 10	13.6		in min break.
21-	B	E E E	eP eL ML F	19 43 19 47 22 48 11 20 00			no-clear S-wave strong micros
21-	M	N N	eP eL F	19 45 25 52.0 20 05			no clear S-wave
419	21-	L	Z Z Z E E E	eP ePP ePPP eS eL PScS	20 34 45 55 35 03 36 49 37 35 47 45 20 55	10.9	0 = 20h 32m 05s strong micros. Epi: Sumbawa Islands (USCGS).
21-	D	Z E N N NE	eP eS eSS eL PScS F	20 05 37 37 04 40 38 04 47 49 21 00	12.0		strong micros.
21-	B	E	eP F	20 37 19 20 50			no clear S-wave faint
21-	M	N N	eP eL F	20 37 20 45.5 20 55			
420	22-	D	Z E N	eP? eS? eM F	05 53 46 56 05 54 06 10	12.3	faint no clear P&S-wave strong micros
22-	L	Z E	eP? e F	05 52 12 56 12 06 05			faint strong micros
22-	B	NE	eP F	05 52 19 06 05			

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks.
JUNE 1956.							
421	22-	L	Z/ NE	iP eS F	11 41 53 42 11 11 45	d	± 1.3 small local shock O = 11h 41m 28s
422	23-	D	Z Z NE E	eP ePP eS eL F	02 29 58 32 53 39 46 03 00 03 30	c	77.0 O = 02h 18m 02s Epic: $56\frac{1}{2}^{\circ}\text{N}$, $163\frac{1}{2}^{\circ}\text{E}$ (USCGS). Mag: $6\frac{1}{2}$ (Pas). Mag: $6\frac{1}{4}$ - $6\frac{1}{2}$ (Berk)
	23-	L	✓ Z	iP F	02 29 56 02 50	c	faint
	23-	B	✓ NE	eP F	02 30 00 02 50		in hour break
423	23-	M	N	eP F	11 00 46 11 07		
424	23-	L	Z	i F	13 52 45 13 57	d	very faint Epic: 7S, 155°E (USCGS)
425	23-	M	N N	eP i F	17 24 00 19 17 30	N	in min. break
426	24-	L	✓ Z Z	iP iPP FF	13 06 08 16 13 12	c c	very faint Epic: Indian Ocean, about 400 miles north of Prince Edward Island (USCGS).
427	24-	L	✓ Z E	iP eS F	21 07 09 13 59 21 25	d	46.7 C = 20h 58m 37s v Epic: 7S, 155°E (USCGS)
	24-	D	✓ Z N	eP eS F	21 07 18 14 09 21 25		46.9 faint
	24 x	B	Faint traces between 21h 07m and 21h 20m				
428	25-	L	Z	W F	01 10 46 01 17		very faint Epic: $21\frac{1}{2}^{\circ}\text{S}$, 67°E (USCGS).
429	25-	L	Z NE	iP eS F	21 07 45 58 21 12	d	0.8 small local shock O = 21h 07m 27s
430	26-	L	✓ Z E	eP eS F	00 10 29 18 28 00 25		57.9 very faint Epic: 17S, $169\frac{1}{2}^{\circ}\text{E}$ (USCGS).

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
JUNE 1956.							
431	26 -	L	Z	iP	09 47 47	c	+1.5 small.
			NE	cS?	48 08		
				F	09 52		O = 09h 47m 19s
432	26 -	L	Z	iP	20 14 54	d	+2.5 small
			NE	cS?	15 26		
				F	20 22		O = 20h 14m 11s
433	27 -	L	Z	iP	19 04 05	d	very faint
			Z	cPP	05 11		
				F	19 08		Epic: 23N, 121E (USCGS).
434	27 -	L	Z	cP	20 49 01	c	very faint
				F	20 53		Epic: 31S, 151E (USCGS).
435	28 -	L	Z	cP	04 05 54		very faint
				F	04 10		Epic: 15S, 178W (USCGS).
436	28 -	L	Z	iP	19 40 02	d	faint
				F	19 45		
437	28 -	L	Z	cP	02 28 40		33.4 O = 02h 21m 58s
			E	cS	34 01		
				F	02 40		Epic: 26N, 122E (USCGS).
438	29 -	L	Z	cP	04 19 06		very faint
				F	04 22		Epic: 37N, 139E (USCGS).
439	29 x	L	Z	Faint traces between 05h 50m and 05h 54m.			
440	29 -	L	Z	iP	17 48 39	c	faint
				F	18 00		Epic: 15N, 120E (USCGS).
441	29 x	L		Faint traces between 19h 30m and 20h 00m.			
442	30 -	L	Z	iPK?	14 36 22	d	very faint
							Epic: 22S, 69W h about 200 Km (USCGS).

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1.

No.	Date	Stat.	Comp.	Phase	G.L.T.	Dir.	Remarks
July 1956.							
443	2x	M	N	Faint traces between 12h 40m and 12h 50m.			
444	2 -	D	Z NE N E	eP eP eS eSS F	14 30 44 16 31 00 22 14 50	17.7	0 = 14h 26m 35s Epic: 8S, 124E (USCGS).
	2 -	L	Z E N	eP eS eScS F	14 30 33 33 36 42 28 14 50	d 16.7	
	2 -	B	E E N	eP eS eScS F	14 30 32 33 36 42 26 14 50	16.7	
	2 -	M	N N N	eP eS eScS F	14 32 35 37 14 43 11 14 50	28.5	faint.
445	2 -	L	Z	iP F	18 37 50 18 42	d	h about 100 Km. faint
446	3 -	L	Z E	eP e F	01 54 33 55 17 02 00		faint
447	3 -	L	Z E	eP e F	02 28 40 29 18 02 33		very faint
448	3 -	M	N N	e eS F	23 34 54 39 40 23 45		faint Epic: 36 $\frac{1}{2}$ N, 71E; h about 250 Km (USCGS).
449	4 -	L	Z E	eP eS F	00 50 39 59 32 01 05	73.1	faint Epic: 18S, 178 $\frac{1}{2}$ W, h about 450 Km (USCGS).
450	4 -	L	Z	eP F	03 12 52 03 17		faint Epic: 7S, 155 $\frac{1}{2}$ E (USCGS).
451	4 -	L	Z E NE	eP eS eSS F	03 51 27 58 20 04 01 23 04 05	47.2	0 = 03h 42m 51s. Epic: 7S, 155 $\frac{1}{2}$ E (USCGS).
452	4 -	L	Z	eP F	07 27 44 07 32		very faint Epic: 7S, 155 $\frac{1}{2}$ E (USCGS).
453	4 -	L	Z F	ePKP F	11 27 52 11 35		very faint Epic: 31S, 71 W (USCGS).
454	4 -	L	Z	e F	16 23 04 16 25		very faint Epic: 23 $\frac{1}{2}$ S, 180; h about 450 Km (USCGS)
455	5 -	L	Z	eP F	06 25 50 06 30		very faint
456	5 -	L	Z	eP F	21 23 41 21 28		faint
457	6 -	L	Z E	eP eS? F	01 38 44 58 01 41		small

2.

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Δ	Remarks
JULY 1956.								
458	6 -	L	Z NE	eP eS F	04 37 27 04 38 05 04 42	3.0		$\theta = 04h 36m 37s$
	6 -	D	N E	i e F	04 38 24 04 39 04 04 45	N		faint
	6 -	B	NE	e F	04 38 05 04 43	N		
459	6 -	L	Z E	e e F	04 44 17 04 45 04 47			in min. break
460	6 -	L	Z	i F	11 09 23 11 14	d		faint
461	6 -	L	Z	e(PKP?) F	13 52 14 13 57	d		very faint Epic: 23S, 70W: h about 60Km (USCGS).
462	7 -	L	Z E	eP c F	03 14 19 03 17 39			in min. break. very small.
463	8 -	L	Z	eP F	04 38 19 04 43			in min. break Epic: Halmahera regi- on (USCGS).
464	8 -	L	Z E E	eP eS eSS F	06 06 40 10 28 11 03 06 16	21.1		$\theta = 06h 01m 56s.$ Epic: $0^{\circ} 126\frac{1}{2}^{\circ}$ E; h about 60 Km. (USCGS).
	8 -	D	Z N	eP eS F	06 06 37 10 22 06 22	20.8		faint.
	8 -	B	E E	eP eS F	06 06 35 10 20 06 20	20.8		faint.
465	9 -	D	Z Z E E N E N N	iP ePP eSKS iS ePS eSS eSSS eL F	03 24 24 27 56 34 53 35 11 36 19 41 07 44 41 52.5 05 00	c E E	89.0	Epic: 37N, 26E(USCGS) Mag: 8 (Pas), 7 1/4 - 7 1/2 (Berk).
	9 -	B	NE NE N NE	eP eSKS eS eL F	03 24 32 35 00 18 58.0 04 50	37.8		in min. break. $\theta = 03h 11m 40s.$
	9 -	L	ZE E E NE	eP eSKS eS eL F	03 24 56 35 25 39 04 00 04 45	d	83.0	time corr. uncertain
466	9 -	L	Z	eP F	06 06 04 06 09			very small. time corr. uncertain.
467	9 -	D	ZN NE	eP iS F	07 44 16 45 04 08 00	S/E	4.0	$\theta = 07h 43m 12s.$

3.

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks.-
JULY 1956	9 -	B	NE NE	eP e F	07 48 58 11 26 07 55		in min. break.
	9 -	L	ZEN	eP F	07 44 12 07 54		in min. break no clear S-wave time corr. uncertain.
468	9 -	L	Z	iPKP e F	10 16 31 20 34 10 32	c	Epic: 20N, 73W; h ab h about 100 Km (USCGS) Mag. 6.1-6.3/4 (Pas), 6.2 (Berk). O = 20h 34m 43s.
469	9 -	D	Z NE N	eP eP eS F	20 35 41 43 36 25 20 50	3.6	Epic: Off coast of Southern Sumatra (USCGS). in min. break.
	9 -	B	NE N	eP eS F	20 35 58 36 58 20 45	5.1	in min. break.
	9 -	L	ZEN	eP F	20 35 55 20 43		in min. break.
470	10 -	L	Z	eP F	00 42 10 00 45		small local shock.
471	10 -	L	Z	eP F	06 52 56 06 57		faint. time corr. uncertain.
472	10 -	L	Z	iP F	18 06 47 18 10	c	very faint. Epic: Marshall Isls (USCGS).
473	10 -	L	Z NE	eP eS? F	20 35 29 42 20 39	c 0.8	small local shock. O = 20h 35m 09s
474	11 -	D	Z NE	eP eS F	11 31 47 32 09 11 36	1.6	O = 11h 31m 17s very small
	11 -	B	NE	e F	11 32 16 11 36		no clear S-wave time corr. uncertain.
	11 -	L	Z	iP F	11 32 44 11 37	d	
475	12 -	D	Z E N	eP eS eSS F	00 16 22 17 13 24 00 35	4.2	O = 00h 15m 15s faint; time corr. uncertain.
476	12 -	L	Z	eP F	15 08 41 15 20		Epic: 23N, 94E (USCGS). time corr. uncertain.
477	12 -	L	Z Z	e e F	20 03 29 04 27 20 08		time corr. uncertain.
478	13 -	L	Z	iPKP F	13 55 52 14 00	c	time corr. uncertain.
479	16 -	L	Z NE	eP eS F	07 13 30 48 07 17	1.3	Epic: 27S, 70W; h about 100 Km (USCGS). O = 07h 13m 05s
480	16 -	D	Z Z Z E E E NE	eP ePP ePPP eS eSS eSSS eL F	15 13 16 14 22 37 18 12 19 54 20 37 23 55 16 10	31.0	O = 13h 07m 06s. Epic: 23N, 96E (USCGS).

4.-

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks
July 1956.							
16-	L	✓	Z	iP	15 13 33	d	31.6 in, min. break.
			E	eS	18 42		
			E	eL	24.5		
				F	16 00		
16-	B	✓	NE	eP	15 13 34		31.6
			N	eS	18 43		
			NE	eL	23.5		
				F	16.00		
16-	M	✓	NZ	eP	15 11 26		no clear S-wave
			NE	eL	17.1		
				F	15 40		
481 16-	L		Z	iP	21 47 00	d	very faint
				F	21 50		Epic: Andreanof Isls (USCGS).
482 17-	L		Z	iP	01 14 35	d	1.5 0 = 01h 14m 07s
			NE	eS	55		
				F	01 19		time corr. uncertain.
483 17-	L		Z	e	04 45 35		very faint
				F	04 48		time corr. uncertain
							Epic: Marianas Islands
							about 200 Miles NE of
							Guan (USCGS).
							Felt in Tual (S. Maluku)
484 17-	D	✓	ZEN	iP	07 38 06	c/W	19.4
			E	iS	41 15	W	
			Z	ePcP	42 03		in min. break.
			E	eSS	25		
			NE	eL	44.0		Epic: 7S, 126½E
			E	eScS	48 33		(USCGS) h about 150 Km
				F	08 15		
17-	B	✓	NE	eP	07 37 56	W	18.7
			NE	iS	41 00	N/E	
			NE	eL	43.0		
			NE	eScS	48 31		
				F	08 10		
17-	M	✓	N	eP	07 39 43		30.8
			N	eS	44 13		
			N	iScS	49 26		
				F	08 00		
485 17-	L		Z	eP	13 40 06	c	1.0 0 = 13h 39m 45s
			E	eS?	21		
				F	13 44		time corr. uncertain.
486 17-	L		Z	Faint traces between 16h 41m and 16h 44m.			
487 17-	L		Z	iP	17 13 33	d	very faint.
				F	17 16		time corr. uncertain
							Epic: Marianas Islands
							after shock (USCGS).
488 18-	L		Z	Faint traces between 05h 27m and 05h 31m			
							Epic: 21½S, 170E (USCGS).
489 18-	D	✓	ZEN	iP	06 24 30	c/W/N	23.8
			E	eS	28 43		0=06h 19m 15s
			E	eSS	29 32		N-comp blocked after arrival of S.
			E	eScS	35 45		Epic: 5S, 130E (USCGS).
				F	08 00		Mag: 7 1/4 - 7½ (Pas), 7 (Berk)-

5.

No.	Date	Stat.	Comp.	Phase	G.L.T.	Dir.	Δ	Remarks
July 1956	18 -	B	NE E NE	iP eS eScS F	06 24 27 28 32 35 33 07 30	W/N	22.8	
	18 -	L	ZE E	iP eScS? F	06 24 16 35 00 07 30	W		no-clear S-wave time corr. uncertain.
	18 -	M	N =	eP F	06 26 00 06 15			in min. break faint
490	19 -	D	Z N	eP eS F	05 34 51 35 16 05 40		1.9	Felt in St-Priangan (West Java). O = 05h 34m 17s
	19 -	B	E E	eP eS F	05 34 32 48 05 40		1.1	small
	19 -	L	Z	iP F	05 35 02 05 40	d		no clear S-wave time corr. uncertain.
491	19 -	L	Z	iP F	18 29 08 18 35	c		faint time corr. uncertain.
492	19 -	D	Z Z Z N E E	iP ePP ePPP eS eSS eSSS F	20 46 20 52 47 04 50 41 51 32 50 21 00	d	24.8	O = 20h 40m 55s Epic: 15N, 120 $\frac{1}{2}$ E (USCGS).
	19 -	B	NE N	eP eS F	20 46 20 50 41 21 00	N/E	24.8	faint
	19 -	L	Z E E	iP eS eSS F	20 46 18 50 38 51 36 21 00	c	24.7	
493	19 -	D	Z E	eP eS F	21 38 38 39 03 21 50		1.9	Felt in St-Priangan (West Java) O = 21h 38m 04s.
	19 -	L	ZEN NE	iP eS F	21 38 28 45 21 45	c/N/W	1.2	
	19 -	B	E E	eP iS? F	21 38 26 38 21 45	W		small
494	20 x	L	Z	Faint traces between 04h 25m and 04h 30m.				
495	20 -	L	Z	iP F	13 21 49 13 35	d		faint time corr. uncertain.
496	20 -	L	Z	eP F	17 37 47 17 50	d		faint time corr. uncertain.
497	20 x	L	Z	Faint traces between 18h 55, and 18h 58m.				
498	21 -	D	NE E	e e F	15 40 53 43 23 16 00			Z-comp. not readable, li- nes: overlapped Epic: 23N, 70E (USCGS). Mag: 6 $\frac{1}{2}$ (Pas). faint
	21 -	B	NE	e F	15 41 30 15 55			faint
499	22 -	L	Z	ePKP F	09 44 40 09 52			faint Epic: 19S, 69W (USCGS). h about 100 km Mag: 6 - 6 1/4 (Pas).

6.

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	△	Remarks
July 1956.								
500	23-	L	Z	1P ePP F	11 34 12 35 59 14 40	c		faint. Epic: 43S, 154E (USCGS).
501	23- ✓	L	Z	e F	19 45 20 19 55			in min. break. Epic: 24S, 102W (USCGS).
502	23-	L	Z	1P 1PP F	22 04 33 51 22 10	d c		faint. Epic: 6S, 148E (USCGS).
503	24-	L	Z	eP F	07 15 24 07 20	d		very faint. Epic: Tonga Islands (USCGS).
504	24- ✓	D	Z N E	eP IS eSS F	19 01 31 05 31 06 06 19 10	N	22.2	O = 18h 56m 32s. Epic: 1N, 126½E (USCGS).
	24- ✓	L	Z E E E	1P eP eS eSS eScS F	19 01 21 45 05 13 46 12 47 19 15	c	21.2	
	24- ✓	B	NE NE E	eP eS eSS F	19 01 21 05 13 49 19 15		21.2	
505	24-	L	Z	eP F	21 30 05 21 32	c		very faint.
506	24-	L	Z	eP F	22 24 54 22 30			no clear S-wave
	24 x	D	Faint traces between 22h 21m and 22h 30m.					
507	26 x	L	Z	Faint traces between 06h 21m and 06h 30m.				
508	26-	L	Z	1P F	17 59 29 18 05	d		Epic: Near east coast of Hokkaido, Japan (USCGS).
509	26-	L	Z	eP e F	18 14 29 15 25 18 20	d		deep focus Epic: 27S, 178E (USCGS). h about 650 Km.
510	27-	L	Z	1P F	17 53 13 17 56	d		deep focus in min. break.
511	27-	L	Z	eP F	21 45 09 21 48			faint
512	28-	B	NE NE	eP eS F	02 10 46 17 37 02 25	c	49.0	very faint Epic: 15N, 147½E (USCGS). O = 02h 01m 53s.
513	29- ✓	L	Z Z E	1P ePP? eS F	07 18 37 55 22 32 07 32	c	21.6	Epic: 6S, 154E (USCGS). h about 150 Km. O = 07h 13m 44s.
	29- ✓	D	Z Z E	eP ePP eS F	07 18 34 19 01 22 35 07 35		22.2	Epic: 9S, 85½E (USCGS).
	29- ✓	B	NE	e F	07 18 45 07 30			faint.

No.	Date	Sat.	Comp.	Phase	G.L.T.	Dir.	Remarks
July 1956.							
514	29 -	L	Z	iP F	11 14 38 11 20	d	faint
515	30 -	L ✓	Z	eP F	09 27 50 09 32		very faint Epi: 37°N, 26°E (USCGS).
516	30 -	L ✓	Z	e F	10 52 50 10 56		very faint Epi: 36°N, 26°E (USCGS).
517	30 x	L	Z	Faint traces between 11h 31m and 11h 34m.			Epic: Ryukyu Islis regi- on (USCGS).
518	30 -	L	Z	eP F	11 49 33 11 53		in min. break Epic: 19°N, 121°E (USCGS)
519	31 -	L	Z E	eP eS F	16 43 28 16 47 28 16 50	22.2	in min. break in min. break. O = 16h 38m 29s Epic: 23°N, 128½°E (USCGS).
AUGUST 1956.							
520	1 - ✓	L	Z	ePKP F	07 03 47 07 07		very faint Epi: 28°S, 71°W (USCGS).
521	1 -	L	Z	iPKP F	07 16 55 07 22	d	faint Epi: 28°S, 71½°W (USCGS).
522	2 -	L	Z Z	iP eS? F	17 50 08 17 53 45 18 00	d 19.7	faint O = 17h 45m 3hs in min. break.
	2 -	D	NE	e F	17 54 15 17 57		
523	2 -	L	Z NE	iP eS F	18 58 36 18 56 19 02	d 1.5	small O = 18h 58m 08s
524	3 -	L	Z NE	iP eS? F	16 26 29 16 43 16 30	c 0.9	small O = 16h 26m 09s
525	4 - ✓	L	Z	eP F	09 56 54 10 05		faint Epi: 5°S, 150½°E (USCGS). h about 250 Km. Mag: 6 1/4 - 6½ (Pas).
526	4 -	L	Z NE	eP eS? F	12 29 25 12 32 48 12 32	1.7	small O = 12h 28m 54s
527	5 -	D	Z NE NE	iP iP eS F	05 34 05 05 06 25 05 55	d 1.5 N/W	O = 05h 33m 38s Epic: Sunda Passage.
	5 -	B	E NE	eP eS F	05 34 19 05 50 05 05	2.5	in min. break.
	5 -	L	Z	iP F	05 34 16 05 50	d	
528	6 -	L	Z NE	eP eS? F	02 23 45 02 51 02 26	0.2	no clear S-wave very small
529	6 -	L	Z	e F	10 47 57 10 52		very faint
530	8 -	D	Z N	eP eS? F	00 33 01 00 20 00 42	1.2	
	8 -	L	Z	iP F	00 33 17 00 37	c	small

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks
AUGUST 1956.							
531	9 -	L	Z	eP	01 38 35		0.2 very small
			NE	eS?	41		
				F	01 43		strong micros
532	9 -	L	Z	eP	14 00 30		2.6 small
			NE	eS?	01 03		
				F	14 05		strong micros
533	9 -	D	Z	iP	23 12 10	d	78.0 0 = 23h 00m 42s
			Z	ePP?	15 03		
			Z	ePPP	17 02		
			N	iS	21 38	s	Epic: 15S, 176W (USCGS)
			e	eSKS	53		h about 250 Km.
				F	24 00		Mag: 6 3/4 (Pas).
	9 -	B	NE	eP	23 12 08		76.0
			NE	eS	21 26		
				F	23 30		
	9 x	L	in change of paper.				
534	11 -	D	Z	eP	16 51 41		
			E	eM	54.0		in min. break.
				F	17 00		
	11 -	L	Z	eP	16 51 56		
				F	16 55		
535	12 ✓	L	Z	eP	00 37 00		faint
			F	F	00 45		Epic: 19S, 165W; h a -
							bout 200 Km (USCGS)
536	12 -	D	Z	eP	17 08 32		50.5 0 = 16h 59m 30s
			N	eS	15 46		Epi: 34N, 138E (USCGS).
				F	17 25		Mag: 6 1/2 - 6 3/4 (Pas).
	12 -	L	Z	iP	17 08 21	d	51.0
			E	eS?	15 38		in min. break.
				F	17 25		time corr. uncertain.
	12 x	B	Faint traces between 17h 10m and 17h 20m.				
537	13 -	L	Z	eP	09 19 14		very faint.
				F	09 23		Epic: 28 1/2 S, 176W (USCGS)
538	14 -	L	Z	eP	03 02 18		faint.
				F	03 15		Epic: Prince Edward
							Islands (USCGS).
539	14 x	L	Z	Faint traces between 05h 10m and 05h 15m.			
540	14 -	L	Z	iP	12 44 21	c	4.7 0 = 12h 43m 09s
			E	eS?	45 17		
				F	in code of no. 541.		
	14 -	B	NE	eP	12 44 23		4.8
			N	eS	45 20		
				F	12 55		
	14 -	D	Z	eP	12 44 04	c	4.4
			NE	eS	57		
				F	13 00		
541	14 -	L	Z	eP	12 53 51		
				F	13 00		
542	15 -	L	Z	iP	03 20 50	d	
			NE	iP	52	s/W	no clear-S-wave
				F	03 25		
543	15 -	D	ZEN	iP	05 22 33	d/W/N	8.1 0 = 05h 20m 37s
			N	eS	24 04		in min. break.
			Z	ePP?	28 37		Felt in Benkulen &
				F	05 50		Westcoast of Sumatra

No	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks
AUGUST 1956.							
15 -	L	✓	ZEN NE	iP iScS F	05 22 44 35 15 05 50	d/W/N	Epic: 0, 101½E. h about 300 Km(USCGS) no clear S-wave
15 -	B	✓	NE NE NE	eP eS eScS F	05 22 46 24 25 35 16 05 50	S/E 8.9	
15 -	M	✓	ZEN E	iP eS F	05 21 56 22 54 05 40	d/S/E 4.7	
544 15 -	L	✓	ZEN Z E E E Z	iP ePP eS eSS eScS e F	10 55 08 28 58 18 49 11 06 35 18 46 11 25	d/E/N 17.8	in min. break.
15 -	D	✓	Z N E E	eP eS eSS eScS? F	10 55 11 58 30 59.0 11 06 36 11 30	c 18.6	0 = 10h 51m 04s in min. break. Epic: 1S, 123E h about 150 Km(USCGS)
15 -	B	✓	NE E	eP eS F	10 55 09 58 20 11 25	S/W 17.9	no min. mark time uncertain.
545 15 -	L	✓	Z	iP F	13 22 53 13 30	d	Epic: 16N, 151E(USCGS). Mag: 6 1/4 (Pas).
15 -	D	✓	Z	eP F	13 22 54 13 30		
546 17 x	L		Z	Faint traces between 15h 17m and 15h 21m			Epic: 4S, 151½E (USCGS).
547 18 -	L		Z NE	eP? eS? F	03 09 23 55 03 14		no clear P/S-wave
548 19 -	L	✓	Z	iP F	05 28 50 05 35	c	faint Epic: 21½S, 179½ W. h about 150 Km(USCGS).
549 19 -	L		Z	iP F	09 00 27 09 04		faint Epic: 20S, 176W. h about 100 Km(USCGS).
550 20 x	L		Z	Faint traces between 07h 30m and 10h 00m			Epic: 7½N, 80W (USCGS).
551 21 -	L		Z	eP F	10 08 40 10 15	c	faint
552 22 -	L		Z E	eP eS? F	01 27 30 28 17 01 35	d 3.9	0 = 01h 26m 28s.
22 -	D		Z NE	eP eS? F	01 27 19 58 01 35	d 3.2	
22 -	B		E N	e e F	01 28 00 28 28 01 33		
553 22 -	D		Z NE	eP iS F	09 53 19 39 10 00	c N 1.5	0 = 09h 52m 51s

10.

No.	Date	Stat.	Comp.	Phase	G.M.T.	Dir.	Remarks.-
AUGUST 1956							
	22 -	L	Z	iP	09 53 26	d	1.8
			ZE	eS	50		
				F	10 00		
	22 x	B	Faint traces at about the same time.				
554	22 -	L	Z	iP	11 36 18	d	59.7 h about 100 Km.
			Z	ePF	12		
			E	eS	11 41 19		
				F	11 47		Epic: New Herbrides (USCGS).
555	22 -	L	Z	eP	17 17 34		faint
				F	17 27		Epic: Molucca Passage (USCGS).
556	22 -	L	Z	i	18 55 19	d	very faint
				F	18 58		
557	23 -	L	ZE	e	10 24 24		
				F	10 31		
558	23 -	L	Z	ePKP?	14 08 33		
			Z	ePF?	12 31		
				F	14 17		Epic: 15S, 60W (USCGS). h about 100 Km. Lag: 6 1/4 - 6 1/2 (Pas).
559	23 -	L	Z	iP	22 14 19	d	faint
				F	22 17		Epic: Near Eastcoast of Honshu, Japan (USCGS).
560	24 -	D	Z	eP	00 03 40		18.2
			E	eS	07 01		
				F	00 15		0 = 23h 59m 24s
	24 -	B	NE	eP	00 03 28		
			NE	eS	06 40		
				F	00 12		
561	24 -	D	Z	eP	04 39 34		
			E	eM	50.0		Epic: 53N, 172 1/2 E (USCGS)
				F	05 00		Mag: 6 1/2 (Pas) (Berk).
	24 -	L	Z	eP	04 39 38		
				F	05 00		
562	24 -	L	Z	eP	08 37 47	d	faint
				F	08 42		Epic: 21S, 169E (USCGS).
563	25 -	L	Z	eP	00 27 44	d	
			E	eS?	31 58		
				F	00 35		Epic: 2N, 129E (USCGS).
564	25 -	L	Z	iP	22 12 54	d	very faint
				F	22 17		Epic: 12S, 166 1/2 E. h about 200 Km (USCGS)
565	26 -	D	ZEN	eP	19 29 02		1.5 in min. break.
			NE	eS	23		
				F	19 37		0 = 19h 28m 34s
	26 -	L	Z	eP	19 28 59		
				F	19 35		no clear S-wave
566	28 -	L	Z	eP	09 59 39		very faint
				F	10 05		Epic: 23 1/2 S, 180; h about 600 Km (USCGS).
567	28 -	L	Z	e	14 56 26		in min. break
				F	15 00		faint.
568	31 -	L	Z	eP	22 11 45	d	faint 1/2
				F	in code of no. 569.		
569	31 -	L	Z	eP	22 13 15	d	3.2
			NE	eS	54		
				F	22 25		0 = 22h 12m 23s.

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Sept Oct Coverd

Ministry of Communication
Meteorological and Geophysical Institute
D J A K A R T A.-

SEISMOLOGICAL BULLETIN
SEPTEMBER, OCTOBER 1956

Geographical position of the stations

DIJAKARTA: Lat. $06^{\circ} 11' S$ Long. $106^{\circ} 50' E$ $h = 8$ m.
Foundation : River Quarternary.
Seismograph : Wiechert Z 1300 Kg.
Wiechert N & E 1000 Kg.

BANDUNG : Lat. $06^{\circ} 54' S$ Long. $107^{\circ} 39' E$ $h = 726$ m.
Foundation : Quarternary Volcanics.
Seismograph: Wiechert N & E 1000 Kg.

LEMBANG : Lat. $06^{\circ} 50' S$ Long. $107^{\circ} 37' E$ $h = 1295$ m.
Foundation: Quarternary volcanics.
Seismograph: Sprengnother Z ($T = 1.4$ sec)
Sprengnother N ($T = 3.4$ sec)
Sprengnother E ($T = 2.5$ sec)

MEDAN : Lat. $03^{\circ} 33' N$ Long. $98^{\circ} 41' E$ $h = 32$ m.
Foundation: Marine sediments.
Seismograph: Sprengnother Z ($T = 1.5$ sec)
Sprengnother N ($T = 1.5$ sec)
Sprengnother E ($T = 1.5$ sec)

Constants of the Wiechert Seismographs.

DIJAK. 1956	NS-component.					EW-Component.					Z-component.				
	T	r	E	V	c	T	r	E	V	c	T	r	E	V	c
SEP.	7.7	0.31	1.99	215	1.42	7.6	0.09	2.21	220	1.45	4.0	0.09	1.79	300	1.40
Oct.	7.6	0.09	2.83	219	1.33	7.6	0.09	2.24	216	1.48	4.0	0.08	2.07	300	1.40

BAND.	NS-Component					EW-Component				
SEP.	5.4	0.17	1.17	194	1.16	4.9	0.14	1.21	206	1.43
OCT.	5.4	0.14	1.24	199	1.20	4.9	0.13	1.06	203	1.36

Abbreviations: used in the bulletin.
D = Djakarta station.
B = Bandung station.
L = Lembang station.
M = Medan station.

c = a compressive first movement.
d = a dilatational first movement.

REMARKS: The Sprengnother seismographs of Medan were not yet in good condition during the period covered in this bulletin.

Meteorological and Geophysical Institute

(Prof. R. Goenarso)
Director.

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DJAKARTA (I n d o n e s i a).

1.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
SEPTEMBER 1956.							
570	1 -	L	Z	eP F	00 29 52 00 34		very faint. Epic: 15 $\frac{1}{2}$ N, 147 $\frac{1}{2}$ (USCGS)
571	1 -	L	Z	eP F	08 02 05 08 07		distant shock. no clear S-wave.
	1 -	D	N E	eP eM F	08 02 28 08 10 08 07		
	1 x	B					Faint traces at about the same time.
572	1 -	L	Z	eP F	20 01 08 20 04		
573	3 x	L	Z				Faint traces between 18h 15m and 18h 18m. Epic: 17 $\frac{1}{2}$ S, 163 $\frac{1}{2}$ (USCGS)
574	4 -	L	Z	iP F	18 21 58 18 25	c	
575	5 -	D	N E E	eP eS eM F	00 30 56 31 18 32 18 00 38	1.6°	very faint. Epic: Near coast of South Priangan (West Java). O = 00h 30m 26s.
	5 -	B	NE NE	eP eS F	00 30 48 31 03 00 35	1.0°	
	5 -	L	NE N	eP eS F	00 30 50 31 06 00 35	1.1°	
576	5 -	D	Z N	eP iS F	18 13 06 14 00 18 20	4.5°	O = 18h 11m 55s. in min. break.
	5 -	B	NE NE	eP eS F	18 12 56 13 41 18 20	3.7°	
	5 -	L	Z	iP F	18 12 51 18 22	c	no clear s-wave.
577	6 -	L	Z	eP F	01 46 13 01 49		small.
578	6 -	L	Z	eP F	05 36 06 05 40		small.
579	6 -	L	Z	iP F	08 56 03 08 59	d	very faint. Epic: Tonga Is. region
580	6 -	L	Z	iP F	15 08 29 15 12	d	small.
581	9 -	D	Z NE	iP eS F	11 36 52 37 14 11 42	1.6°	O = 11h 36m 22s.
	9 -	L	Z	eP F	11 36 53 11 42		no clear S-wave.
582	9 -	L	Z	eP F	13 31 18 13 35		
583	9 -	D	Z E	eP eS F	17 40 20 41 26 17 50	22.9°	O = 17h 35m 14s. Epic: 3N, 129 E h about 150 km (USCGS).

2.

No.	Date	State	Comp.	Phase	G.	M.	T.	Dir.	Δ	Remarks.
SEPTEMBER 1956.										
9-	B	N	E	eP eS F	17	10	16		22.5	
					17	11	19			
					17	50				
9-	L	Z	E	eP? eS?	17	10	03			no clear phases.
					17	11	23			
					17	50				
584	9-	L	Z	iP F	18	09	21	d		
					18	15				
585	10-	L	Z	iP eS eScS	12	33	57	d	10.2	0 = 12h 31m 34s. h about 150 km.
						45	49			
						40	37			
					12	50				Epic: 1N, 100E (USCGS).
10-	B	NE	NE	e(P) eS eScS	12	34	09			no clear P-wave.
						35	45			
						46	43			
					12	50				
10-	M	Z	E	iP eS? F	12	33	10	d	6.9	
						34	28			
					12	42				
10-	D	Z	M	e(P) eS F	12	33	52			no clear P-wave.
						35	21			
					12	45				
586	10-	L	Z	eP F	11	21	21			faint.
					11	28				Epic: 11 $\frac{1}{2}$ N, 103 $\frac{1}{2}$ W (USCGS).
587	11-	D	Z	iP ePP ePPP? eS F	02	43	46	c	70.4	0 = 02h 32m 28s.
			N			46	22			
			E			48	16			Epic: 16 $\frac{1}{2}$ S, 178E (USCGS).
			N			53	04			Mag: 6 (Pas), 6 1/4 (Berk).
					03	10				
11-	B	N	N	eP eS F	02	43	44		70.1	faint.
						52	55			
					03	00				
11-	L	Z	E	eP eS F	02	03	40		70.3	
						52	52			
					03	00				time corr. uncertain.
588	11-	L	Z	iP F	05	55	58	d		
					06	05				
589	11-	L	Z	iP eS F	15	54	14	d	61.2	0 = 15h 43m 55s.
					16	02	33			Epic: 17S, 160E (USCGS).
					16	10				Mag: 6 (Pas).
590	11-	L	Z	iP F	21	15	02	c		faint.
					21	20				Epic: 49 $\frac{1}{2}$ N, 155E (USCGS).
										Mag: 6 1/4 (Pas), 6 (Berk).
591	11-	L	Z	eP F	21	43	07	d		faint.
					21	45				
592	12-	L	Z	eP F	13	33	33	d?		very faint.
					13	36				Epic: 23N, 146E (USCGS).
593	12-	L	Z	eP F	20	10	58	d?		very faint.
					20	15				Epic: 49 $\frac{1}{2}$ N, 156E (USCGS).
594	12-	L	Z	iP F	20	39	02	d		faint, but clear impulse.
					20	42				
595	13-	L	Z	eP F	00	06	48			
					00	12				

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks.
<u>SEPTEMBER 1956.</u>							
596	13-	L	Z	iP F	14 39 16 14 45	c	Epic: About 500 miles south of Tasmania (USCGS).
597	15-	L	Z	e(P) e(S) F	00 19 55 21 27 00 25		no clear P/S-wave.
598	15-	L	Z	iPKP iPKP2 F	07 58 48 55 08 02 37 08 10	d d e?	Epic: 20S, 69W; h about 100 km (USCGS). Mag: 6 3/4 (Fas).
599	15-	L	Z	F(P?)	10 41 58 10 45		faint. Epic: 4 S, 151E h about 400 km (USCGS).
600	15-	L	Z	F	20 22 14 20 30		
601	16-	L	Z	eP ePP eS F	08 46 50 48 54 49 57 54 16 09 20		52.5 0 = 08h 37m 33s.
16-	D	L	Z	e eM	08 54 05 56 09 09 25		Epic: 34N, 69 1/2 W (USCGS). Mag: 6 1/4 - 6 1/2 (Fas). no clear P/S-wave.
16 x B				Faint traces at about the same time.			
602	16-	L	Z	iP ePP F	13 37 59 38 52 47 22 13 50	d	76.0 0 = 13h 26m 33s.
603	16-	D	Z	iP F	16 25 57 26 23 16 45	c	Epic: 19S, 174 1/2 W h about 200 km (USCGS). 2.00 0 = 16h 25m 22s.
16-	B	NZ		eP eS	16 26 09 44 16 45		2.8
16-	L	Z		F	16 26 07 16 45		small compr. followed by greater dilatation; no clear S-wave. faint.
604	16-	L	Z	F	17 34 50 17 40		
605	17-	L	Z	F	02 37 26 02 40		small.
606	17-	L	Z	eP eS F	20 22 30 25 14 34 22 20 40		15.2 0 = 20h 19m 03s. Felt in Atjeh (North-Sumatra). Epic: 5 1/2 S, 95E. h about 150 km (USCGS)
17-	M	NZ		eP F	20 19 47 20 23 20 30		2.8
607	18 x	L		Faint traces between 08h 24m and 09h 00m.			
608	18-	L	Z	iP iPP F	16 11 00 11 13 16 13	d d	faint, but clear phases.
609	18-	L	Z	iP eS?	19 05 44 06 04 19 10	d	1.5 Epic: 30 1/2 N, 142E (USCGS). 0 = 19h 05m 16s.

4.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks.
SEPTEMBER 1956.							
610	19-	L	Z	iP	12 42 02		1.0
			NE	eS	17		
				F	12 45		0 = 12h 41m 41s.
611	19-	L	Z	iP	17 56 27	c	1.5
			NE	eS	47		
				F	18 02		0 = 17h 55m 59s.
612	19 -	L	Z	eP	23 53 54		in min. break.
				F	00 05		Epic: 22N, 94 1/2W, h about 100 km (USCGS).
613	20 -	L	Z	e(PKP)	04 22 07		faint.
				F	04 25		Epic: near coast of Northern Chile (USCGS).
614	20-	L	ZEN	iP	12 48 48	a/w/s	no clear S-wave.
				F	12 55		Felt in South East Priangan (West Java).
	20-	B	NE	eP	12 48 45		1.3
			NE	eS	19 03		0 = 12h 48m 20 s.
				F	12 55		small local shock.
615	20-	L	Z	iP	18 37 47	c	
				F	18 40		
616	20 x	L	Z	Faint traces between 20h 17m and 20h 20m.			Epic: 51N, 159W (USCGS).
617	20 -	L	Z	iP	22 03 28		small compression followed by greater dilatation.
				F	22 15		Epic: 51N, 159W (USCGS).
							Mag: 6 1/4 (Pas).
618	21 ~	L	Z	iPKP	19 30 29	d	
			Z	ipPKP	32 43	d	
			Z	iP	33 14	c	
				F	19 40		Epic: 26S, 63W
							h about 600 km (USCGS).
619	22-	L	Z	iP	07 03 45	d	faint.
				F	07 10		Epic: 22S, 179W
							h about 650 km (USCGS)
620	22-	L	Z	iP	11 05 48	c	faint.
				F	11 09		
621	24 -	L	Z	eP	06 16 36		faint.
				F	06 20		Epic: 15S, 173W (USCGS).
							Mag: 6 (Pas).
622	24 -	L	Z	eP	07 12 56		in min. break.
				F	07 20		Epic: 22S, 175W (USCGS).
623	25 -	D	Z	eP	01 16 26		small.
			NE	eS	48		0 = 01h 15m 56s.
				F	01 23		
	25 -	B	NE	eP	01 16 16		0.8
			NE	eS	28		Felt in Southern Priangan (West Java).
				F	01 23		
624	26-	L	Z	eP	00 14 49		small.
				F	00 18		
625	26 -	L	Z	eP	05 12 50		very faint.
				F	05 15		Epic: 30N, 142E (USCGS).
626	28-	L	Z	iP	04 02 37	d	1.3
				eS	55		0 = 04h 02m 12s.
				F	04 10		very faint.
627	28-	L	Z	iP	04 49 45	c	
				F	04 53		
628	28-	L	Z	eP?	11 48 15		4.6?
				eS	19 10		
				F	11 55		0 = 11h 47m 03s.

5.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks
<u>SEPTEMBER 1956.</u>							
629	29	x D		Faint traces between 04h 00m and 04h 10m			Epic: 0, 123E h about 300 km (USCGS).
630	29	- D	Z N NE	eP eS eL F	09 07 40 11 11 40 13 40	22.6	0 = 09h 02m 37s Epic: 7N, 94E (USCGS).
	29	- B	NE N	eP eS? F	09 07 53 12 03 09 40	± 23.4	
	29	- M	N E	eP? eS? F	09 05.0 06 44 09 25	9.1?	no clear registration.
631	29	- D	Z Z NE E	eP ePP eS eSSS F	22 27 54 28 25 32 04 33 13 22 50	d 23.8 N/W	0 = 22h 22m 44s. Epic: 3N, 128E h about 60 km (USCGS).
	29	- B	NE NE	eP eS F	22 27 49 31 53 22 45	23.0	in min. break in min. break
632	29	- D	Z NE	iP eS F	23 24 24 42 23 40	d 1.3	0 = 23h 23m 59s. Felt in Western Priangan, (West Java).
	29	- B	NE NE	eP eS F	23 24 21 36 23 30	1.0	
	29	- L	Z E	iP eS F	23 24 22 37 23 30	d 1.0	
633	30	- L	Z NE	eP eS? F	06 11 07 22 06 18	1.0	no clear S-wave. 0 = 06h 10m 46s.
	30	- B	NE NE	eP eS F	06 11 06 11 20 06 20	0.9	
634	30	- L	Z NE	eP eS? F	11 07 59 08 19 11 12	1.5	in min. break. 0 = 11h 07m 31s.
635	30	- L	Z Z Z NE	eP ePP ePP eS F	14 49 28 48 51 10 55 40 15 00	d 41.8	0 = 14h 41m 40s. Epic: 14N, 144E, h about 100 km (USCGS).
<u>OCTOBER 1956.</u>							
636	1	- D	ZEN NE	iP eS F	11 57 58 58 13 12 15	d/s/W 1.0	Felt in Western Priangan (West Java). 0 = 11h 57m 37s.
	1	- B	NE NE	eP eS F	11 58 04 23 12 10	1.4	
	1	- L	ZEN	iP F	11 58 03 12 10	d/s/W	no clear S-wave.
637	2	- D	Z NE	iP eS F	11 13 37 14 01 11 20	c 1.8	Felt in Western Priangan (West Java). 0 = 11h 13m 05s.
	2	- B	NE NE	eP eS F	11 13 26 41 11 20	1.0	

6.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	A	Remarks
OCTOBER 1956.								
	2-	L	Z NE	iP eP F	11 13 30 31	d N/W		no clear S-wave.
638	2-	L	Z	iP F	11 20 15 08 01 15 15	d		faint Epic: 53N, 159E (USCGS). h about 60 km. Mag: 6 1/4 - 6 1/2 (Pas).
639	2-	L	Z	iP F	18 46 00 18 50	c		faint.
640	2-	L	Z E	eP eS F	19 37 15 29 19 42		0.9	Felt in Southern Priangan (West Java). O = 19h 36m 55s.
641	3-	L	Z Z Z	ePKP epPKP ePKS F	08 38 23 19 42 20 08 45			Epic: 20S, 69 1/2W (USCGS). h about 100 km Mag: 6 1/2 (Pas).
642	4-	L	Z E	eP F	07 09 20 10 20 07 15			
	4 x	D	Faint traces between 07h 09m and 07h 16m.					
643	4-	L	Z NE	iP eS F	16 17 00 15 16 20	c	1.0	small. O = 16h 16m 39s.
644	4-	L	Z NE	iP eS F	20 36 46 37 16 20 42	d	2.4	O = 20h 36m 06s.
645	5-	L	Z N	iP eS F	09 17 59 18 14 09 23	c	1.0	O = 09h 17m 38s.
	5-	D	N N	eP iS F	09 18 02 18 09 23		1.1	
	5-	B	NE	F	09 18 17 09 23	N		very small.
646	5-	L	Z Z E	iP epP eS	21 53 09 32 22 01 05 22 05	c	59.3	O = 21h 43m 15s. Epic: 14S, 167 1/2E (USCGS). h about 100 km.
647	6-	L	Z E	eP eS F	06 21 00 25 04 06 30		22.6	O = 06h 15m 57s. Epic: 2 1/2N, 126 1/2E (USCGS).
648	6-	L	Z	eP	17 11 24 17 14			in min. break Epic: 16S, 179W (USCGS) h about 100 km.
649	7-	L	Z	iP F	17 45 56 17 48	d		faint. Epic: 19S, 177W (USCGS).
650	7-	L	Z N	iP eS F	21 37 43 45 43 21 50	c	59.5	faint. h about 200 km. O = 21h 27m 48s.
651	8-	L	Z Z	eP epP F	00 26 44 27 10 00 40			very faint. Epic: 4S, 144 1/2E (USCGS). h about 100 km.
652	8-	L	Z	e F	04 36 28 04 50			very faint. Epic: 12 1/2N, 142E (USCGS). h about 150 km.

7.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Remarks.
OCTOBER 1956.							
653	8-	L	Z	iP eS F	15 07 45 17 34 15 25	c	77°8 0 = 14h 55m 49s Epic: 19½S, 174½W (USCGS).
	8-	D	Z	iP eS F	15 07 48 17 41 15 26	c	78°6
654	9-	L	Z	iP F	06 31 31 06 35	c	faint. Epic: 19½S, 174W (USCGS).
655	9-	L	Z	iP F	16 59 14 17 03	d	faint. Epic: 15½N, 147½E (USCGS).
656	11-	D	Z	eP ipP iPcP ePP iS esS eSS eSSS e F	02 35 06 35 38 37 32 43 39 44 30 47 39 50 39 03 03 54 03 40 02 35 09	d c d N/W	65°1 0 = 02h 24m 33s. h about 100 km. Epic: 46N, 150½E (USCGS). Mag: 7 1/4 - 7½ (Pas).
	11-	L	Z	eP iP eS eScS e F H	02 35 09 10 43 42 44 52 03 03 44 04 12 03 30	c N/E	66°0
11-X	B		NE	NE - component not readable, lines overlapped.			
657	11-	L	Z	ePKP i F	17 07 52 08 20 17 15	c	faint. Epic: 40½N, 126½W (USCGS). Mg: 6 (Pas) (Berk).
658	11-	L	Z	eP F	17 21 50 17 35	c	faint. no clear S-wave.
659	12-	L	Z	ePKP ePKP2 e F	02 47 32 58 12 03 01 10 03 10		faint. no time correction. Epic: 15S, 74½W (USCGS). Mag: 6½ (Pas) (Berk).
660	12-	L	Z	eP F	12 32 00 12 40		in mi. break. Epic: 42½N, 144½E (USCGS). Mag: 6 1/4 - 6½ (Pas).
661	12-	L	Z	iP ipP F	18 49 32 50 10 18 53	d c	very faint. no time correction. Epic: New Hebrides Isls h about 200 km (USCGS).
662	13-	L	Z	eP F	09 03 53 09 10		small. no time correction.
663	13-	L	Z	e e F	13 32 13 23 13 40		small local shock. no clear P/S-wave. no time correction.
664	13-	L	Z	iP F	15 22 38 15 25	c	very faint. Epic: 49½N, 156E (USCGS). no time correction.
665	13-	L	Z	iP eS F	19 00 31 06 24 19 15	d	40°0 Faint; no time correction. Epic: 5S, 149½E (USCGS). h about 150 km.

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir	Δ	Remarks.
<u>OCTOBER 1956.</u>								
	13-	B	NE	eP N	19 01 45 07 36		39.7	faint.
				F	19 15			
666	14-	L	Z	iP F	04 05 42 04 10	d		very faint. Epic: 4S, 146E (USCGS). time corr. uncertain.
667	15-	D	Z	eP eS? F	07 50 57 54 50 08 05		22.7	0 = 07h 46m 32s. Epic: Philippine Isls (USCGS) h about 450 km.
	15-	L	Z	iP E	07 50 01 58 23	d		faint.
				F	08 05			time corr. uncertain.
	15-	B	NE	eP eS F	07 51 08 54 45 08 05		23.2	very faint.
668	16-	L	Z	eP eS F	12 11 46 14 02 12 20		12.0	0 = 12h 08m 51s. Epic: Sumba Isl. (East Indonesian).
	16 x	D	Z	Faint traces between 12h 12m and 12h 22m.				
669	18-	L	Z	iP F	03 31 26 03 40	c		no time correction. Epic: Near north coast of Mindanao, P.I. (USCGS).
	18 x	D	Faint traces between 03h 35m and 03h 45m.					
670	18-	L	Z	i F	17 36 23 17 40	d		very faint. time corr. uncertain.
671	18-	L	Z	i F	18 16 09 18 19	d		very faint. time corr. uncertain.
672	18-	L	Z	iP F	18 33 55 18 38	c		faint. time corr. uncertain.
673	19 x	L	Z	Faint traces between 10h 59m and 11h 04m				
674	19-	L	Z	iP	12 11 03	d	73.0	Epic: 5S, 154E (USCGS). 0 = 12h 00m 37s. h about 650 km.
			Z	eP	13 15			
			Z	eP	19 39			
			NE	iS	20 07	S/E		
			Z	eS	12 30			Epic: 21S, 179W Mag: 6 (Pas).
	19-	D	NE	e	12 19 49			
			E	e	20 50			
			E	e	23 37			Z-comp. not readable, lines overlapped.
	19-	B	NE	eP eS F	12 11 04 19 39 12 30		72.8	faint.
675	19-	L	Z	eP F	14 24 04 14 40	d		faint.
	19-	D	E	e	14 30 52			very faint.
			N	e	35 31			
				F	14 40			
676	19-	L	Z	iP epP F	20 59 58 21 03 05 21 25	c		faint. Epic: 52N, 177E (USCGS). Mag: 6 3/4 (Berk) (Pas).

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
OCTOBER 1956.								
677	20 -	D	Z	eP	15 55 19	d	1.9	Felt in Banten (West-Java).
			NE	iS	16 00	S/E		O = 15h 54m 45s.
				F				
	20 -	L	Z	iP	15 55 25	d	2.5	
			NE	eS	57			
				F	16 00			
678	22 -	L	Z	iP	12 43 06		42.2	O = 12h 35m 10s.
			NE	eS	49 27			Epic: 9 $\frac{1}{2}$ S, 150E (USCGS).
				F	in coda of no. 679.			
	22 -	D	NE	eP	12 43 10		42.5	
			N	eS	49 34			
			E	eSS	52 34			
				F	13 20			
	22 -	B	NE	eP	12 43 07		42.2	
			N	iS	49 28	N		
				F	13 10			
679	22 -	L	Z	iP	12 59 38	c	42.2	O = 12h 51m 42s.
			E	iS	13 05 59	E		Epic: Aftershock of no. 678.
				F	13 20			Epic: 9 $\frac{1}{2}$ S, 150E (USCGS).
680	22 -	L	Z	eP	15 25 59			h about 100 km.
				F	15 30			
681	22 -	L	Z	iP	15 35 08	c		faint.
				F	15 40			
682	23 -	D	Z	eP	08 46 30		24.4	O = 08h 41m 20s.
			Z	epP	47 10			in min. break.
			Z	ePPP	23			
			N	eS	50 40			h about 100 km.
			E	eScS	57 26			Epic: 13 $\frac{1}{2}$ N, 120 $\frac{1}{2}$ E (USCGS)
				F	09 30			
	23 -	L	ZEN	iP	08 46 35	c/s/W	24.7	
			N	eS	50 47			
			E	eSS	51 57			
				F	09 10			
	23 -	B	NE	eP	08 46 35		24.7	
			E	eS	50 47			
			E	eSSS	52 45			
				F	09 10			
683	23 -	L	Z	eP	10 13 42	c		faint.
			Z	epP	54			
			Z	i	14 25	d		
				F	10 18			Epic: 19S, 17 $\frac{1}{2}$ W (USCGS).
684	23 -	L	Z	iP	17 17 16	c		very faint.
				F	17 20			
685	23 -	L	Z	iP	20 57 08	c	3.0	
			NE	eS	45			O = 20h 56m 18s.
				F	21 03			very small.
	23 -	B	N	e	20 57 44			
686	24 -	L	Z	iPKP	15 02 19	d		
			Z	ePKP2	03 35			
			Z	ePKS	05 51			
			Z	ePP	07 14			
			Z	ePcPKP	10 49			
			E	eSKKS	12 56			Epic: 12N, 87W (USCGS).
				F	16 30			Mag: 7 1/4 (Pas), 7 (Berk)

No.	Date	Stat.	Comp.	Phase	G.	M.	T.	Dir.	Remarks
OCTOBER 1956.									
24	-	D	✓	Z	ePKP	15	02	18	c
				Z	ePP		07	08	
				Z	ePcPKP		10	46	
				NE	eL	16	05	.0	
					F	17	00		
24	-	B	✓	N	ePKP	15	02	20	faint.
				E	eSKKS		14	14	
				F	eL	16	19	.0	
					F	16	40		
687	24	-	L	Z	iP	17	31	34	c
					F	17	40		
688	24	-	D	Z	iP	18	44	24	d
				NE	eS		43		N/E 1.3
					F	18	50		0 = 18h 43m 58s.
24	-	L		Z	iP	18	44	31	d
				NE	eS?		54		1.7
					F	18	50		
24	-	B		NE	e	18	44	30	small.
					F	18	48		
689	25	-	✓	L	iPKP	05	41	48	d
					F	05	45		faint. Epic: 12 N, 87W (USCGS). Mag: 6 1/4 - 6 1/2 (Pas). 6 - 6 1/4 (Berk).
690	25	-	L	Z	iP	19	15	58	d
					F	19	18		very faint. Epic: 17 1/2 S, 175W (USCGS).
691	26	-	L	Z	eP	02	57	56	very faint.
					F	03	05		Epic: 17 1/2 S, 176E (USCGS).
692	26	-	✓	Z	iP	08	59	39	c
				E	eP		41		W 23.7
				NE	eS	09	03	05	0 = 08h 54m 46s. h about 200 km.
				E	eScs?		09	38	Epic: 6 1/2 S, 130E (USCGS).
					F	09	30		
26	-	L	✓	ZE	iP	08	59	33	c/W
				E	iS	09	03	23	23.0
				E	eScs?		10	31	
					F	09	20		
26	-	B	✓	NE	eP	08	59	35	S/E
				NE	eS	09	03	26	23.0
				NE	eScs		10	33	
					F	09	20		
693	26	-	✓	Z	eP?	23	01	02	in hour break.
				E	eS		08	55	
				E	e		09	34	Epic: 14 S, 167E (USCGS). Mag: 6 1/2 (Pas) (Berk).
					F	23	40		
26	-	B	✓	NE	eP	23	00	27	58.0
				NE	eS		08	27	
					F	23	30		0 = 22h 50m 30s.
694	27	-	L	Z	eP	12	22	42	small.
					F	12	25		
695	28	-	D	ZIN	eP	03	40	13	72.3
				Z	ePP		42	53	in min. break.
				E	eS		49	36	
				E	eSKS		50	14	0 = 03h 28m 44s. Epic: 32S, 179W (USCGS). Mag: 6 3/4 - 7 (Pas), 6 3/4 (Berk).
				E	eL	04	09	.0	
					F	04	20		

No.	Date	Stet.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
<u>OCTOBER 1956.</u>								
	28-	L	Z	eP	03 40 10			
		✓	E	iS	49 30	W	71.8	
			E	eSS	54 06			
				F	04 00			
	28	- B	NE	eP	03 40 09		71.4	
		✓	E	eS	49 27			
				F	04 00			
696	28-	L	ZEN	iP	10 50 44	c/w/s	26.0	O = 10h 45m 08s.
		✓	E	eS?	55 13			
			E	eL	11 03.0			
				F	11 15			Epic: 14W, 123 $\frac{1}{2}$ E (USCGS).
	28	- B	NE	eP	10 50 45		26.1	in min. break.
		✓	N	eS	55 15			
			E	eL	11 05.0			
				F	11 10			
	28-	D	NE	eP	10 50 41			Z-comp. unreadable, lines
		✓	N	ePP?	52 35			overlapped.
			E	eS?	56 54			no clear S-wave
				F	11 30			
697	28	- L	Z	e	13 33 04			faint.
				F	13 37			
698	29	- L	Z	i	14 28 17	c		very faint.
				F	14 30			
699	29-	L	Z	iPP	16 02 13	d		
		✓	Z	epPP	34			
			Z	i	03 06			
			Z	i	06 53			h about 60 km
			F	F	16 10			Epic: 8 $\frac{1}{2}$ S, 77W (USCGS).
700	30-	L	Z	e	00 47 19			in min. break.
				F	00 52			
701	30-	D	Z	iP	19 48 36	d	1.3	Small local shock.
			NE	iS	54	E/W		
				F	19 52			O = 19h 48m 11s.
	30-	L	Z	iP	19 48 45	d	1.9	
			NE	eS	49 10			
				F	19 52			
702	31-	D	Z	eP	14 13 53	c	61.0	O = 14h 03m 35s.
		✓	Z	ePP	16 03			in min. break
			NE	eS	22 11			Epic: 26 $\frac{1}{2}$ N, 54 $\frac{1}{2}$ E (USCGS).
				F	15 00			Mag: 6 3/4 (Pas).
	31-	L	Z	eP	14 14 06	c	62.0	
		✓	Z	iPP?	16 20	c		
			E	ePP	17 54			
			E	eS	22 30			
			E	eSKS	24 03			
				F	in code of no. 703			
	31-	B	E	eP?	14 14 06			no clear P-impulse.
		✓	N	eS	22 25			
				F	14 40			
703	31-	L	Z	iP	14 32 31	c		Epic: aftershock of no. 702
		✓	E	eSKS	42 30			(USCGS).
				F	15 00			faint.
704	31-	D	E	e	22 30 07			Epic: Northeast India (USCGS).
			E	e	32 13			
			F	F	23 00			

No. Date Stat. Comp. Phase G. M. T. Dir. 71 Remarks

OCTOBER 1956.

31^x B N3 Faint traces between
22h 30m and 22h 45m

31 - M N eP? 22 21 09
F 22 35

no clear P-impulse.

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DTAKAKITA

MAY - OCTOBER