International Seismological Centre From the ISC collection scanned by SISMOS

Department of Air Communication
Meteorological and Geophysical Institute

D j a k a r t a

S e i s m o l o g i c a l B u l l e t i n

January, February 1960

Geographical position of the stations

Djakarta : Lat. 06°11'S, Long. 106° 50' E. h = 8m.
Foundation : River Quarternary
Seismograph : Wiechert Z 1300 Kg.
Wiechert N & E 1000Kg.

Lembang : Lat. 06°50' S. Long 107°37' E. h = 1295m.
Foundation : Quarternary volcanics.
Seismograph : Sprengnether Z (T=1.4 sec)
Sprengnether N (T=3.4 sec)
Sprengnether E (T=17.7 sec)

Medan : Lat. 03°33' N. Long. 98°41' E. h = 32m.
Foundation : Marine Sediments.
Sprengnether Z (T=1.5 sec)
Sprengnether N (T=1.5 sec)
Sprengnether E (T=1.5 sec)

Constants of the Wiechert Seismograph

DJAK	NS - Component					EW - Component					Z - Component				
1960	T	r	E	V	e	T	r	E	V	e	T	r	E	V	e
JAN	7.6	0.33	2.33	215	1.50	7.6	0.37	2.88	215	1.48	4.0	0.17	2.52	-	1.42
FEB	7.6	0.40	2.12	217	1.45	7.6	0.42	2.67	217	1.44	4.0	0.27	2.21	-	1.32

Abbreviations used in the bulletin
D = Djakarta station
L = Lembang station
M = Medan station
c = a compressive first movement.
d = a dilatational first movement

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Stc.No.172/60/LMG.

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
JANUARY 1960.								
1	2	M	Z	iPg	05 07 46	c	2°.4	0=05h 06m 55s
			NE	(eSg)	08 18			strong
				F	05 28			Epic:2½N, 96E(USCGS)
	2	L	Z	eP	05 10 34		15°.2	faint.
			NE	eS	14 24			
				F	05 31			
	2	D	ZN	e	05 13 16			no clear P-waves.
			N	e	15 34			
				F	05 30			
2	2	M	Z	iPg	23 09 23	d	3°.7	rather strong
			NE	eSg	10 11			
				F	23 20			0=23h 08m 07s.
3	3	L	Z	iPg	03 53 18	c	1°.3	local shock.
			NE	eSg	36			
				F	03 58			0=03h 52m 50s.
4	3	L	Z	iP	10 39 04	d	5°.3	
			NE	eS	40 14			
				F	10 47			0=10h 37m 14s.
	3	D	Z	e	10 38 24			very faint.
				F	10 58			
5	4	L	N	e	07 12 33			faint traces.
				F	07 24			
6	6	L	Z	eP	20 21 53		24°.7	faint.
			ZN	(eS)	26 13			0=20h 16m 29s.
				F	20 30			Epic:6½S,133E(USCGS)
7	7	M	Z	e	07 23 14			faint
				F	07 28			
8	7	M	Z	eP	07 50 38		8°.3	local shock.
				eS	51 14			
				F	08 01			0=07h 48m 34s.
9	7	M	Z	eP	08 16 42		5°.6	strong,unreadable.
			NE	(eS)	17 48			0=08h 15m 17s.
				F	08 34			Epic:6½N,94E(USCGS)
	7	D	E	e	08 20 56			very faint, no clear P/S waves.
			N	e	22 52			
				F	08 41			
	7	L	Z	eP	08 19 40			no clear S-waves.
			N	e	25 00			
				F	08 40			
10	7	M	Z	e	08 55 36			unreadable.
			Z	i	57 18			
			Z	(eS)	09 02 24			
				F	09 12			
11	7	M	Z	(eP)	10 17 36		29°.5	unreadable.
			N	(eS)	22 30			
				F	10 29			0=10h 11m 28s.

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
JANUARY 1960.								
12	7	M	Z	eP	11 28 26			faint.
				F	11 35			
13	7	M	Z	e	12 52 06			very faint.
				F	13 01			
14	7	L	Z	e	13 47 01			faint.
				F	13 51			Epic:Sandwich Islands
								Mag :6½ - 6½(pas)
								(USCGS).
15	7	M	Z	eP	22 50 01		9°8	local shock.
			NE	iS	51 55			
				F	22 59			0=22h 47m 36s.
16	7	M	Z	eP	23 18 47		5°6	strong
			NE	iS	19 53			0=23h 17m 22s.
				F	23 41			Epic:6½N,94½E(USCGS).
	7	L	Z	(eP)	23 31 46			faint, no clear S-wave.
			NE	e	27 36			
				F	23 40			
	7	D	NE	e	23 22 28			very faunt.
			NE	e	27 04			
				F	23 52			
17	8	L	Z	e	05 45 24			faint.
				F	05 52			
18	8	L	Z	i	07 56 L7	c		faint.
				F	07 59			
19	8	M	NE	e	17 18 35			faint.
				F	17 23			
20	9	M	Z	iP	07 31 32	c	40°9	rather strong.
			Z	epP	32 07			
			Z	ipP	33 13	d		
			Z	ePcP	32			
			ZNE	iS	37 30	N/E		
			N	eScS	41 16			0=07h 24m 01s.
			N	(eSSS)	23			h about 150 km.
				F in coda of No.21				Epic:36N, 69E(USCGS).
	9	L	Z	iP	07 33 12	c	54°1	
			Z	ipP	49	d		
			Z	ePcP	34 13			
			NE	iS	40 35			
			F in coda of No.21					
21	9	L	Z	eP	07 45 52		16°9	rather strong.
			ZN	ePP	46 07	S		
			ZN	ePPP	15			
			NE	eS	49 00			
			N	eSS	22	S		0=07h 41m 52s.
				F	08 02			Epic:1S,124E(USCGS).
	9	D	Z	eP	07 46 04		18°3	faint.
			NE	eS	49 26	E		
				F	08 04			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
JANUARY 1960.								
21	9	M	Z	eP	07 47 22		24°.5	strong, S-wave unreadable, confused by strong micros.
			E	(eS)	51 40			
			Z	(eS)	58			
				F	08 04			
22	10	L	Z	iPg	04 03 25	d	1°.3	local shock, rather strong.
			N	(eSg)	43			
				F	04 14			0=04h 02m 57s.
	10	D	Z	e	04 04 45			very faint.
				F	04 16			
23	11	M	Z	iP	03 13 19	c	12°.8	rather strong.
			Z	iPP	32	d		
		∠	NE	(eSSS)	16 15			0=03h 10m 13s.
				F	03 44			Epic:16N,96½E(USCGS).
	11	D	Z	iP	03 15 37	c	25°.1	rather strong.
			NE	(eS)	20 00			
			N	e	23 40			
				F	04 48			
24	11	M	Z	iP	09 45 40		2°.4	local shock.
			N	eS	46 10			
				F	09 51			0=09h 45m 00s.
25	11	L	Z	iP	14 57 59	d	18°.1	0=14h 53m 57s?
			Z	(ipP)	58 24	d		
			ZNE	iS	15 01 11	d/N		h about 160 km.
				F	15 09			Epic: 9S,127E (USCGS).
26	11	M	Z	iP	23 02 02	c		faint.
				F	23 11			Epic: 2S,140½E(USCGS).
	11	L	Z	e	23 00 42			very faint.
				F	23 08			
27	12	M	Z	eP	01 58 51			faint.
				F	02 03			Epic:23½N,122E(USCGS).
	12	L	Z	eP	01 59 19			faint.
				F	02 04			
28	12	L	Z	e	07 31 46			faint traces.
				F	07 35			
29	12	L	Z	iP	08 53 08	d	22°.5	faint.
			ZN	(eS)	57 11			
				F	09 03			0=08h 48m 06s.
30	12	L	Z	e	21 49 39			faint.
			E	e	59 00			
				F	22 18			
	12	M	Z	e	21 47 08			faint.
			Z	e	52 08			
				F	21 59			
	12	D	Z	e	21 57 19			faint.
				F	22 13			

∠ NE eS 03h 15m 43s

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
JANUARY 1960.								
31	12	L	Z	i	22 34 35	d		faint.
				F	22 39			
32	13	L	Z	eP	07 31 58			
			N	e	35 50			
				F	07 42			
	13	M	Z	eP	07 34 24	c	41°.7	0=07h 26m 30s.
			NE	eS	40 42			
				F	07 47			Epic:3½S,140E(USCGS).
33	13	L	Z	iPg	14 52 57	c	1°.5	local shock.
			NE	eSg	53 17			
				F	14 57			0=14h 52m 26s.
34	13	L	Z	iPKP	16 00 18	c	159°	strong.
			Z	i	45	c		0=15h 40m 38s.
			ZN	i	52	c/S		h about 150 km.
			Z	$iPKP_2$	01 13	c		Epic:16S, 72W(USCGS).
			ZN	(iPP)	04 37	c		Mag: 7½ (Pas)
								7½-7 3/4 (Berk).
			ZNE	i	16 04 58	c		many casualities and extensive property damage at Arequipa.
			NE	eL	16 25			
				F	in coda of No.35			
	13	M	Z	$ePKP_1$	16 00 24		163°.8	strong.
			Z	i	50	d		
			ZNE	$iPKP_2$	01 19	c/N/E		
			Z	i	37	d		
			Z	i	51	d		
			Z	i	02 03	d		
			ZNE	iPP	05 07	c/S		
			Z	i	36	c		
				F	in coda of No.36			
	13	D	Z	ePKP	16 00 16			unreadable.
			Z	e	40			
			Z	e	01 12			
			Z	e	02 01			
			N	e	05 40			
			NE	eL	16 30			
				F	17 30			
35	13	L	Z	iP	16 42 26	c		faint.
				F	18 02			Epic: 51½N,180 (USCGS).
	13	M	Z	iP	16 42 14	d		faint.
				F	16 54			
36	14	L	Z	iPg	01 21 02	d	1°.7	local shock.
			NE	eSg	25			
				F	01 26			0=01h 20m 27s.
37	14	M	Z	iPg	02 42 15	c	2°.2	strong local shock.
			NE	eSg	44			0=02h 41m 29s.
				F	02 54			Epic:Near coast of Sumatra (USCGS).
38	14	L	Z	iP	10 35 48	c		faint.
				F	10 40			Epic:37N,140E(USCGS).

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JANUARY 1960.								
39	14	M	Z	ePg	13 17 42		3°.6	rather strong.
			N	eSg	18 29			
			F		17 33			0=13h 16m 28s.
40	14	L	Z	iP	16 03 40	d	21°.1	0=15h 58m 52s.
			ZNE	eS	07 31			
			F		16 12			Epic:3S,127½E(USCGS).
41	14	L	Z	eP	21 45 12	c		fanit.
			F		21 49			Epic:11N,43W (USCGS).
42	15	L	Z	iPKP$_1$	09 50 09	d	158°.9	0=09h 30m 29s.
			Z	iPKP^1	43	d		h about 150 km.
			NE	ePKS^2	53 40			Mag: 7 (Pas)
			Z	iPP	54 25	d		6½ (Berk)
			F		10 16			Epic:15S,75W(USCGS).
								(4 injured and minor damage in Ica Province Felt in Lima).
	15	D	Z	ePKP	09 50 06		160°	faint.
			Z	iPP	54 30			
			F		10 17			
	15	M	Z	e	09 50 10			
			F		10 07			
43	16	L	Z	iP	12 41 30	d		faint.
			F		12 46			
44	16	L	Z	i	15 43 41	c		very faint.
			F		15 45			
45	16	M	Z	iPg	19 38 17	d	3°.1	local shock,rather strong.
			ZNE	iSg	59	d/W		
			F		19 46			0=19h 37m 11s.
46	16	L	Z	iP	21 51 08	c	53°.1	faint.
			ZNE	iS	58 38	c/W		
			F		22 04			0=21h 41m 46s.
47	17	L	Z	e	23 31 40			faint.
			F		23 37			
48	18	L	Z	iP	09 09 41	c	22°.3	rather strong.
			Z	iPPP	10 18	c		
			ZNE	iS	13 42	N		
			ZE	(eSS)	14 23			
			E	eLQ	09 18			0=09h 04m 41s.
			F		09 32			Epic:5N,126½E(USCGS).
	18	D	Z	eP	09 09 40		21°.7	
			NE	eS	13 36			
			F		09 30			
	18	M	Z	eP	09 10 25		26°.1	
			E	(eS)	14 55			
				e	15 37			
			F		09 25			

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JANUARY 1960.										
49	21	D	**ZNE**	iPg	15	48	15	d	1°.2	rather strong.
			NE	eSg			31			
				F	15	57				0=15h 47m 51s.
	21	L	ZNE	iPg	15	48	00	d/S/W		strong local shock.
				F	15	56				S-wave can not read.
50	21	M	Z	iP	20	46	12	d/S	5°.6	strong local shock.
			NE	iS		47	18	c/W		
				F	20	58				0=20h 44m 47s.
51	22	L	Z	iP	13	40	18	d	19°.1	rather strong.
			Z	iPP			34	d		
			ZNE	eS		43	48			0=13h 35m 51s.
				F	13	49				Epic: 0,125E (USCGS).
	22	D	Z	(eP)	13	40	34		19°.7	
			N	eS		44	10			
			N	e		47	06			
				F	13	56				
52	23	M	Z	eP	02	43	43	d	10°	faint.
			N	(eS)		45	37			
				F	02	48				0=02h 41m 15s.
53	23	L	ZNE	iP	04	45	35	c/S/W	19°.8	very strong.
			N	iS		49	13	N		
			E	eS			19			
			ZNE	eiePcP		49	53			0=04h 40m 59s.
			E	eScS		57	17	W		Epic: 4S,127½E(USCGS).
				F	05	25				Mag: 6½ (Pas).
	23	D	Z	iP	04	45	43	d	21°.5	strong.
			ZN	ePP		46	08			
			NE	iS		49	38	S/E		
				F	05	19				
	23	M	Z	iP	04	47	09	c	30°.3	strong,unreadable.
			E	eS		52	09			
				F	05	22				
54	23	L	ZNE	iP	07	35	53	c/S/W	20°.5	strong unreadable.
			E	eS		39	37	W		
			N	iS			38	S		0=07h 31m 11s.
			NE	iPcP		40	04	NE		Epic: 4S,127½E(USCGS).
				F	in coda of No.55					Mag : 6 3/4 (Pas).
	23	D	ZE	iP	07	36	0[illegible]	c/W	21°.5	strong
			ZNE	ePP			25			
			NE	iS		39	55			
				F	08	16				
	23	M	Z	iP	07	37	27	d	30°.5	rather strong,unread-
										able.
			NE	iP			28	S/E		
			N	iS		42	28	S		
				F	07	55				
55	23	L	Z	iP	08	08	49	d		
				F	08	25				
56	23	L	Z	e	08	33	39			faint.
				F	08	37				

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JANUARY 1960.								
57	23	L	Z	iPg	08 48 43	d	1°.4	
			N	eSg	49 01			
				F	08 54			0=08h 48m 15s.
58	23	L	Z	i	10 24 39	d		faint traces.
				F	10 28			
59	23	M	Z	ePg	11 10 06			faint.
				F	11 13			
60	23	L	ZE	iP	18 01 10	c/W	20°.5	very strong.
			N	iP	12	S		
			NE	iS	04 55	N/E		
			N	iPcP	05 20			
			E	iPcp	21	W		0=17h 56m 28s.
			Z	iPcp	22			Epic: 4S,127½E (USCGS).
				F	18 43			Mag : 6½ - 6 3/4 (Pas).
	23	D	Z	iP	18 01 13	d	20°.4	strong.
			E	iS	04 57			
				F	18 32			
	23	M	Z	eP	18 02 44		30°.6	rather strong.
			E	eS	07 46			
				F	18 35			
61	23	L	Z	e	23 32 08			
				F	23 38			
62	23	L	Z	iP	23 52 34	d	19°.9	
			ZN	iPPP	53 04	C/N		
			NE	eS	56 12			
				F	00 02			0=23h 47m 57s.
	23	D	Z	e	23 53 22			
				F	00 16			
63	24	L	Z	iP	01 11 43		19°.9	after shock.
			NE	eS	15 13			
				F	01 18			0=01h 07m 06s.
	24	D	NE	e	01 11 35			
			N	e	15 55			
				F	01 25			
64	24	L	Z	iP	04 33 13	c	72°.5	rather strong.
			Z	ePcP	31			0=04h 21m 42s.
			N	eS	42 37			Epic:15½S,179W(USCGS).
				F	04 57			Mag :6 1/4-6½ (Pas)
								6 - 6 1/4(Berk)
	24	D	Z	eP	04 33 15	d	73°.2	
			NE	eS	42 43			
				F	05 02			
	24	M	Z	eP	04 34 14		84°.2	
			E	eS	44 39			
				F	04 58			
65	24	M	Z	e	15 46 03			faint.
			Z	e	47 04			
				F	15 53			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	R e m a r k s
JANUARY 1960.								
66	25	L	Z	iP	16 40 55	d		Epic:16S,179W (USCGS).
				F	16 45			Mag : 6 1/4 (Pas).
67	26	L	Z	iPg	03 31 12	d		strong, S-wave can not read.
				F	03 41			
	26	D	Z	e	03 30 27			
				F	03 44			
68	26	L	Z	$iPKP_1$	04 37 56	c		faint.
			ZNE	e	38 24			
				F	04 46			Epic:38N,116½W(USCGS) Nevada
	26	D	Z	e	04 38 31			very faint.
				F	04 49			
69	29	M	Z	iPg	10 40 24	c	1°5	
			N	iSg	44	N		
				F	10 44			0=10h 39m 52s.
70	30	L	Z	iP	02 27 49	d		faint.
				F	02 34			
	30	M	Z	iP	02 29 28	c		faint.
				F	02 36			
71	31	L	Z	iP	05 16 55	d	47°	0=05h 08m 20s.
			N	e	23 35			
			E	eS	23 47			
				F	05 36			Epic:33½N,134½E(USCGS).
	31	D	Z	(eP)	05 16 56		47°	
			NE	eS	23 48			
				F	05 36			
	31	M	Z	i	05 16 51	d		
			N	(eS)	23 15			
				F	05 52			
72	31	L	Z	e	12 47 59			
				F	12 50			
FEBRUARY 1960.								
74	2	M	Z	i	05 06 37	c		faint.
			NE	i	07 16			
				F	05 10			
75	3	L	Z	iP	02 32 13	c		faint.
				F	02 38			Epic:37s,179E (USCGS).
76	3	L	Z	iP	14 40 40	d		faint.
			Z	i	41 14	d		
				F	14 44			Epic:19S,173½W(USCGS).
77	4	M	Z	iP	03 56 09	d	55°	strong.
			ZNE	iPcP	57 11	d		
			Z	iPP	58 14			
			NE	eS	04 03 50			0=03h 46m 34s.
				F	04 23			Epic:4½S,153½E(USCGS).

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FEBRUARY 1960.								
77	4	D	E	(eP)	03 55 00	E	44°	No clear P-wave.
			NE	i	56 34	S/E		
			E	i	57 26	W		
			NE	(eS)	04 01 33			
			F		04 30			
78	4	L	Z	iP	09 35 43	c	47°	faint.
			N	eS	42 26			0=09h 27m 20s.
			N	i	50	S		h about 100 km.
			F		09 44			Epic:5S,154E)USCGS).
79	4	L	Z	iP	17 00 07	c	55°	0=16h 50m 28s.
			NE	eS	10 53			
			F		17 16			Epic: 39N,143E (USCGS).
	4	M	Z	(eP)	16 59 25			very faint.
			F		17 03			
80	4	L	Z	iP	20 48 58	d		h about 600 km.
			F		20 56			Epic:18½S,178W (USCGS).
81	4	L	Z	eP	21 07 32	d		
			F		21 11			Epic:39½N,142½E(USCGS).
82	5	L	Z	iPKP	05 48 14	c		faint.
			F		05 54			Epic:37s,95½W (USCGS).
	5	M	Z	e	05 49 22			faint.
			F		05 53			
83	6	M	Z	e	01 17 31			faint.
			E	e	34			
			E	e	18 20			
			F		01 24			
	6	D	E	i	01 14 34			very faint.
			NE	i	17 30			
			F		01 32			
84	6	M	Z	e	08 38 37			very faint.
			F		08 43			
85	6	L	ZNE	iP	17 11 48	c/S/E	4°	strong.
			E	(eS)	12 36			
			ZNE	eScS	26 20	S		0=17h 10m 45s.
			F		17 30			Epic: 6S,104E (USCGS).
	6	D	Z	iPg	17 11 33	d	2°.2	local shock.
			NE	iSg	12 03	N		
			F		17 32			
	6	M	Z	e	17 13 32			faint no clear P/S wave
			E	(eS)	16 42			
			F		17 26			
86	7	L	Z	eP	02 14 36		5°.5	local shock.
			N	(eS)	15 40			
			F		02 24			0=02h 13m 11s.
	7	D	Z	i	02 14 36	d		very faint.
			F		02 21			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
FEBRUARY 1960.								
87	7	L	N	eP	10 11 40		19°	0=10h 07m 54s.
			N	eS	14 40			
			N	eScS	21 58			h about 600 km.
				F	10 26			Epic: 5N,123E (USCGS).
	7	D	Z	iP	10 11 44	d	19°8	
			NE	iS	14 50			
				F	10 27			
	7	M	Z	iP	10 12 26	d/W		
			E	e	18 22			
			E	e	22 24			
				F	10 31			
88	7	D	Z	iP	16 46 30	c	5°8	local shock.
			E	(eS)	47 38			
				F	16 56			0=16h 45m 01s.
	7	L	ZN	iP	16 46 21	c/N		strong unreadable.
				F	17 06			
89	7	L	Z	i	17 34 26	d		
				F	17 43			
90	8	L	Z	iP	09 28 06	d		faint.
				F	09 34			Epic: 5S,155E (USCGS).
								h about 100 km.
91	8	L	Z	e	13 05 07			Epic:58S,67W (USCGS).
				F	13 12			
	8	M	Z	e	13 04 37			faint.
				F	13 12			
92	8	D	ZN	iPg	17 43 07	d/S	4°2	0=17h 41m 39s.
			NE	(eS)g	44 03			
				F	17 50			Epic: 3S,102½E(USCGS).
	8	L	ZNE	iP	17 42 57	d/S/W		strong unreadable.
				F	17 51			
93	8	M	Z	(eP)	19 07 54			
				F	19 11			Epic:36½N,70½E(USCGS).
94	9	L	Z	iP	01 59 01	c	22°0	0=01h 54m 04s.
			NE	eS	02 03 01			
				F	02 06			Epic:6½S,129½E(USCGS).
	9	D	Z	(eP)	12 00 57		21°3	0=11h 56m 07s.
			NE	eS	04 50			no clear P-wave.
				F	12 24			Epic: 4S,128E (USCGS).
	9	M	Z	iP	12 02 25	d/E		unreadable.
			E	e	28			
			E	e	08 30			
				F	12 27			
	9	L	Z	iP	11 59 53	c		strong.
				F time marks unreadable.				
95	9	L	Z	i	13 53 04	d		faint.
				F	13 57			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	R e m a r k s
FEBRUARY 1960.								
96	9	L	Z	iP	16 42 21	d	40°	0=16h 34m 43s.
			ZE	(eS)	48 31			
				F	16 50			Epic: 6S,147E (USCGS).
	9	M	Z	iP	16 43 42	c		
			E	i	44 31			
				F	16 49			
97	9	L	ZNE	iP	00 00 30	c/S/W	20°.8	0=23h 55m 45s.
			E	iPP	46	E		very strong.
			ZNE	iS	04 20			Epic: 4S,128E (USCGS).
				F in change of record				Mag : 6½-6 3/4 (Pas).
	9	D	Z	iP	00 00 33	c	20°.8	very strong.
			E	iS	04 22	E		
			Z	iPcP	40	c		
			E	i	52	E		
				F	00 52			
	9	M	Z	iP	00 02 02		29°	rather strong, unreadable.
			E	(eS)	06 53			
				F in change of record				
98	10	L	Z	iP	01 20 26	d	20°	faint.
			N	eS	24 06			0=01h 15m 49s.
				F	01 30			Epic:3½S,128E (USCGS).
99	10	M	Z	eP	02 05 20		30°.3	0=01h 59m 05s.
			E	(eS)	10 20			
			E	(eScS)	15 14			
			e		53			
				F	02 19			Epic:3½S,128E (USCGS).
100	10	L	Z	eP	15 53 13			in min break
			E	e	16 02 25			h about 100 km
				F	16 03			Epic:4½S,154½E (USCGS).
101	10	L	Z	iP	23 31 55	c	76°.3	0=23h 19m 55s.
			E	eSKS	41 55	W		
				F	23 48			Epic:15½S,173W USCGS).
102	11	L	Z	iP	04 37 02	d		h about 450 km.
				F	04 41			Epic:14S,170½E (USCGS).
103	11	M	Z	iP	11 13 39	c		
			Z	i	01	c		
			F	i	14 46	N		
				F	11 17			
104	11	L	Z	iP	21 06 05	c	58°	0=21h 56m 08s.
			Z	iPcP	55	d		
			Z	iPP	08 15	c		
			ZNE	eS	14 07			
			N	iPPS	14 25	S		
			N	eScS	15 52			
				F	21 17			Epic:11½S,166E(USCGS).
	11	M	Z	iP	21 07 18	d		faint.
			Z	i	08 30			
				F	21 16			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
FEBRUARY 1960.								
105	11	L	Z	eP	21 30 07		20°	rather strong.
			NE	eS	33 47			
				F	21 43			0=21h 25m 30s.
106	12	L	Z	e	21 27 54	c		
			Z	i	28 26	c		
				F	21 32			
107	13	L	ZE	iP	15 46 00	d/W	21°.8	strong
			Z	ipP	20	c		
			ZNE	iPP	31	c/S		
			Z	ePP	42			
			ZNE	iS	49 50	c/S		
			ZNE	iPcP	50 00	c/S		
			E	esS	50 26			
			ZN	iSS	50 35	d/N		
			N	iSSS	57	S		
			ZE	(iPcS)	15 53 20	d		0=15h 41m 15s.
			ZNE	iScS	57 05	c/E		h about 100 km.
				F	16 06			Epic:2½N,127½E (USCGS)
	13	D	Z	iP	15 46 04	c	21°.8	
			N	eS	49 59			
			E	eS	50 01			
			N	i	52 31			
				F	16 10			rather strong.
	13	M	ZNE	iP	15 47 09	c/E	28°.9	strong.
			ZN	iPPP	49 51	c/S		
			NE	eS	52 51			
			Z	iPcS	53 44	c		
			ZN	eScS	58 27			
				F	16 05			
108	13	M	Z	e	18 22 37			faint.
				F	18 27			
109	14	L	Z	iPg	09 30 17	d	4°	local shock.
			ZNE	eSg	31 05	d		
				F	09 37			0=09h 29m 13s.
110	14	M	Z	iP	12 54 06	d		
			E	e	13 00 51			
				F	13 08			Epic:Andaman Islands (USCGS).
111	14	L	Z	iP	20 39 13	c		faint.
			Z	i	40 49	d		
			E	e	51 15			
				F	20 53			Epic:5S,154½E (USCGS)
	14	M	Z	iP	20 40 25	c		faint.
			Z	e	41 52			
				F	20 47			
112	16	M	Z	e	13 02 38			faint.
			E	e	04 21			
				F	13 10			
113	16	L	Z	iPg	21 26 06	c	1°.4	0=21h 25m 39s.
			NE	eSg	25			
				F	21 28			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
FEBRUARY 1960.								
114	17	L	Z	(iP)	20 25 47	d	5°.6	rather strong.
			N	(eS)	26 53			
				F	20 33			0=20h 24m 21s.
	17	M	N	e	20 27 36			faint.
			ZN	e	29 29			
				F	20 36			
115	18	M	Z	eP	18 06 39		3°.4	faint.
			NE	eS	07 21			
				F	18 14			0=18h 05m 43s.
116	18	M	Z	e	18 57 00			faint.
				F	18 59			
117	19	L	Z	eP	10 46 00	c	55°.1	0=10h 36m 50s.
			Z	(ePcP)	47 00			
			NE	eS	53 24			
			NE	eScs	55 45			h about 200 km
				F	11 22			Epic:36N,70½E(USCGS).
	19	M	Z	iP	10 44 19	c	41°.7	
			Z	(iPP)	45 39	c		
			NE	eS	50 19			
			ZE	(eScS)	53 56			
				F	11 12			
	19	D	NE	(eP)	10 46 02			
			N	i	47 09	S		
			E	e	54 09			
				F	11 12			
118	19	L	Z	ePg	12 23 28		1°.4	0=12h 23m 00s.
			N	eSg	46			
				F	12 27			
	19	D	NE	iPg	12 23 21		1°.3	local shock.
			NE	iSg	38			
				F	12 28			
119	19	M	Z	eP	22 54 41	d	6°.2	
			NE	eS	55 53			
				F	23 03			0=22h 53m 06s.
120	20	M	Z	eP	11 48 51			faint.
				F	11 52			
121	21	L	Z	iP	00 57 48	c	67°.5	0=00h 46m 57s.
			Z	i	58 01	d		
			NE	eS	01 06 38			h about 60 km
				F	01 02			Epic:42S,173E(USCGS).
	21	M	Z	eP	00 59 07			
			Z	e	19	c		
				F	01 06			
122	21	M	E	e	06 17 49			faint.
				F	06 20			
123	21	L	Z	i	11 47 48	d		
			Z	i	49 04	c		
			Z	i	26	d		
				F	11 53			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
FEBRUARY 1960.								
124	21	L	Z	iPg	16 49 32	c	2°.8	
			N	iSg	50 08	N		
				F	16 53			0=16h 48m 36s.
125	21	L	Z	iP	22 48 19	d	23°.1	
			ZNE	eS	52 27			
				F	22 59			0=22 h 43m 11s.
126	22	L	Z	iPg	16 15 33	c	2°.5	strong.
			N	iSg	16 07			
				F	16 25			0=16h 14m 42s.
	22	D	Z	e	16 16 25			
			E	e	20 57			
				F	16 33			
127	23	M	Z	eP	08 16 41	d		
				F	08 18			Epic:23½N,121½E(USCGS)
128	23	L	Z	iP	16 13 20	c		0=16h 04m 48s.
			Z	i	47	c		
			E	eS	20 10			Mag : 6 - 6 1/4 (Pas).
				F	16 30			Epic: 6S,154½E (USCGS)
129	23	L	Z	i	22 13 31	c		
			Z	i	14 01	c		
				F	22 17			
130	24	L	Z	iPg	06 31 25	c	1°.4	strong local shock.
			NE	(eSg)	43			
				F	06 39			0=06h 30m 57s.
	24	D	Z	ePg	06 31 12			
			NE	e	40			
				F	06 39			
131	24	L	ZNE	iP	21 45 44	c/S/W	47°.9	0=21h 37m 07s.
			Z	iPcP	47 13	c/S		
			Z	iPP	41	c/W		
			N	iPPP	48 27	S		
			NE	ePcS	51 12			
			NE	iS	52 38	S/W		
			NE	ePPS	53 00	W		
			ZNE	iScS	21 55 38	d/S/E		Mag : 6½-6 3/4 (Pas).
			E	(eSS)	55 59			Epic: 7½S,156E(USCGS).
				F	22 30			
	24	M	Z	iP	21 47 00	d	57°.3	
			Z	iPcP	54	d		
			NE	ePP	49 12			
			NE	eS	54 52			
			NE	(eScS)	56 24			
				F	22 06			
	24	D	Z	iP	21 45 49	c		no clear S-wave.
			NE	e	51 17			
			NE	e	54 01			
				F	22 04			
132	24	M	Z	eP	22 16 51			faint.
			E	e	17 29			
			N	e	57			
Stc.No.172/60/LMG.				F	22 25			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
FEBRUARY 1960.								
133	24	D	NE	e	23 52 33			very faint.
				F	00 01			Epic:51½N,178W(USCGS)
								Mag :6-6 1/4 (Pas).
134	25	L	Z	eP	08 32 18			very faint.
				F	08 35			
135	25	L	Z	e	12 51 09			Epic:11N,124E (USCGS)
136	26	L	Z	iP	01 11 40	d		0=01h 06m 23s.
			Z	iPPP	12 10	c		
			NE	eS	15 30			
			N	eScS	23 07			
				F	01 28			Epic:2½S,128E (USCGS)
137	26	L	Z	iP	02 14 57	c		0=02h 08m 30s.
			E	(eS)	20 07			
			NE	(eScS)	25 37			
				F	02 37			Epic:1 S,138E (USCGS)
	26	M	Z	iP	02 16 10	d	40°	
			NE	eS	22 16			
			NE	(eScS)	26 16			
				F in coda of No.66				
138	26	M	Z	(e)	02 25 55			
			Z	i	27 09			
				F	02 31			
139	26	L	Z	eP	06 44 33	d	77°4	0=06h 32m 37s.
			E	eS	54 23			
				F	06 53			Epic:20S,174W (USCGS)
	26	M	Z	eP	06 45 36			
			N	e	49 42			
				F	06 53			
140	26	L	Z	e	12 01 17			faint.
			Z	i	02 23	c		
				F	12 04			
141	26	L	Z	eP	23 42 02		84°9	0=23h 29m 25s.
			E	eSKS	52 25			
			ZN	e	53 28			Mag : 6-6 1/4 (Pas).
				F	23 56			Epic:51½N,178W(USCGS)
	26	M	Z	eP	23 41 53			
				F	23 59			
142	27	M	Z	eP	07 01 16			
			N	e	39			
			N	e	04 12			
				F	07 06			
143	27	D	Z	(ePg)	09 06 37		3°7	P-wave daubtfull.
			N	eSg	07 25	N		0=09h 05m 21s.
				F	09 27			Epic:6½S,102½E(USCGS)
	27	L	ZN	iPg	09 06 50	c/S		strong local shock.
				F	09 26			unreadable.

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	R e m a r k s
FEBRUARY 1960.								
143	27	M	Z	e	09 08 24			
			N	e	10 37			
			E	e	12 20			
				F	09 29			
144	27	L	Z	iP	14 31 55	d		faint.
				F	14 34			h about 150 km.
								Epic: 150 km.
145	27	L	Z	eP	23 09 55		17°.9	0=23h 05m 43s.
			NE	eS	13 13			
				F	23 27			Epic: 2N,123E (USCGS).
	27	D	Z	e	23 09 58			very faint.
			E	e	13 59			
				F	23 28			
	27	M	ZE	eP	23 11 08	c/E	24°.5	
			N	e	38			
			N	iS	15 26	N		
				F	23 24			
146	28	L	Z	iP	17 22 14	c	13°.7	
			ZE	eS	24 48			
				F	17 29			0=17h 18m 56s.
147	28	L	Z	eP	23 12 38	c	43°	
			N	eS	19 04			
				F	23 19			0=23h 05m 36s.
								Epic: 3S,142E (USCGS).
	28	M	Z	eP	23 13 58		45°.5	
			E	e	15 32			
			N	eS	20 40			
				F	23 28			
148	29	L	Z	iP	05 28 03	d/N	25°.3	
			ZNE	eS	32 15			
			N	e	36 55			
				F	05 38			0=05h 22m 50s.
	29	M	Z	iP	05 28 02	d	25°	
			NE	eS	32 12			
				F	05 37			
149	29	L	Z	(iPKP)	06 53 56	d		
			ZN	i	55 00	d		
				F	06 59			

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ROYAL OBSERVATORY
17 OCT 1961
EDINBURGH

International Seismological Centre From the ISC collection scanned by SISMOS

Department of Air Communication
Meteorological and Geophysical Institute
D j a k a r t a

Seismological Bulletin
March, April 1960.

Geographical position of the stations:

Djakarta : Lat.:06°11'S. Long.:106°50'E. h=8m.
Foundation : River Quarternary.
Seismograph: Wiechert Z = 1300 kg.
Wiechert N & E = 1000 kg.

Lembang : Lat.:06°50'S. Long.:107°37'E. h=1295m.
Foundation : Quarternary volcanics.
Seismograph: Sprengnether Z (T=1.4 sec.)
Sprengnether N (T=3.4 sec.)
Sprengnether E (T=17.7 sec.)

M e d a n : Lat. 03°33N'. Long.:98°41'E. h=32m.
Foundation : Marine Sediments.
Seismograph: Sprengnether Z (T=1.5 sec.)
Sprengnether N (T=1.5 sec.)
Sprengnether E (T=1.5 sec.)

Constants of the Wiechert Seismograph

DJAK	N-S Component					E-W Component					Z Component				
1960	T	r	E	V	e	T	r	E	V	e	T	r	E	V	e
March	7.6	0.45	2.28	215	1.40	7.6	0.42	2.78	215	1.39	4.0	0.25	2.11	-	1.30
April	7.6	0.48	1.98	215	1.38	7.6	0.41	2.67	215	1.55	4.0	0.22	2.27	-	1.39

Abbreviations used in the bulletin:

D = Djakarta station
L = Lembang station
M = Medan station
c = a compressive first movement
d = a dilatational first movement

Meteorological and Geophysical
Institute

Ir. Suroto Mangunsumarto
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Stc. 285/60/Lm.

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
	6	D	Z	iP	02 27 20	c	23°.7	rather strong.
			NE	eS	31 33	S/W		
				F	02 50			
165	6	L	Z	iPg	11 03 47	c	1°.5	faint.
			NE	eSg	04 05			
				F	11 08			0=11h 03m 15s
166	6	M	Z	ePg	10 36 11			faint.
			E	e	41			
				F	10 42			
167	6	M	NE	e	21 47 13			faint.
				F	21 54			
168	7	L	Z	iP	02 09 47	d	7°.0	strong.
			NE	iS	11 09	E		
			N	e	18 09			0=02h 08m 02s.
				F	02 22			Epic:5½S, 101E (USCGS).
	7	D	Z	eP	02 09 41		6°.0	rather strong.
			NE	eS	10 51	N/W		
				F	02 25			
	7	M	Z	eP	02 10 35		9°.9	rather strong.
			ZNE	eS	12 30			
				F	02 19			
169	7	L	Z	eP	05 17 42		19°.5	rather strong.
			ZNE	iS	21 15	c		0=05h 13m 11s.
				F	05 29			Epic:1½N, 125½E(USCGS).
	7	M	Z	iP	05 18 55	c	27°.1	rather strong.
			Z	i	19 22			S-wave unreadable.
			NE	(eS)	23 34			
				F	05 35			
	7	D	Z	eP	05 18 14		23°.0	
			N	eS	22 21			
				F	05 39			
170	7	L	Z	iP	09 47 29	c		faint.
			ZN	(eS)	54 57			
				F	09 56			Epic:10S, 160½E (USCGS).
171	7	L	Z	iP	13 23 25	c	6°.1	faint.
			NE	(eS)	24 37			
				F	13 32			0=13h 21m 53s.
172	7	L	Z	iPg	23 03 14	c	1°.1	strong, local shock.
			E	(eSg)	28			
				F	23 20			0=23h 02m 52s.
	7	D	Z	iPg	23 03 16			rather strong.
			NE	iSg	49	E		
				F	23 25			
173	8	L	Z	iP	12 03 01	c		
			Z	i	07	c		
				F	12 08			Epic:65S, 125E (USCGS)
	7	M	NE					

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
159	5	L	ZNE	iP	13 54 22	d/N/E	22°.7	0=13h 49m 15s.
			E	iPP	54	E		
			N	eS	58 27			
			ZE	iS	36	c/E		
			E	iSS	59 16	E		
			E	iScS	14 05 20	E		strong
			N	eScS	30			Mag:6 3/4 (Pas)
				F	in coda of no.160			Epic:1N, 129E(USCGS).
	5	M	Z	iP	13 55 34	c	30°.3	very strong.
			ZN	iPP	56 33	d/N		
			N	iS	14 00 28	N		
			E	iS	34			
			E	iSSS	02 32			
				F	14 36			
	5	D	ZE	iP	13 54 25	d/E	23°.75	strong.
			Z	iPP	59	d		
			Z	ePPP	55 12			
			NE	iS	58 38	S/W		
				F	14 46			
160	5	L	Z	i	14 17 34	c		very faint.
				F	14 26			
161	5	L	Z	e	14 39 07			faint.
				F	14 45			
162	5	L	Z	iP	15 54 58	c	23°.1	aftershock.
			Z	iPP	55 28	d		
			NE	iS	59 06	N/E		0=15h 49m 50s.
				F	16 10			Epic:1N,129E(USCGS)
	5	D	Z	eP	15 55 05		23°.5	in min. break.
			NE	eS	59 16			
				F	16 08			
	5	M	Z	eP	15 56 12		31°.0	
			NE	eS	16 01 17			
				F	16 14			
163	5	L	Z	iPg	19 24 31		0°.7	0=19h 24m 15s.
			ZN	eSg	41			
				F	19 26			
164	6	L	Z	eP	02 27 13		23°.0	rather strong.
			ZN	iPP	43	c/N		
			N	iPPP	53	N		
			NE	iS	31 20	N/W		0=02h 22m 06s.
			E	iSS	32 05			
				F	02 49			
	6	M	Z	iP	02 28 23	c	31°.0	rather strong.
			Z	ePP	29 23	d		
			Z	ePcP	31 16	c		
			NE	eS	33 23			
			E	eSS	35 02			
			N	eScS	38 37			
				F	02 51			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
	6	D	Z	iP	02 27 20	c	23°.7	rather strong.
			NE	eS	31 33	S/W		
			F		02 50			
165	6	L	Z	iPg	11 03 47	c	1°.5	faint.
			NE	eSg	04 05			
			F		11 08			0=11h 03m 15s
166	6	M	Z	ePg	10 36 11			faint.
			E	e	41			
			F		10 42			
167	6	M	NE	e	21 47 13			faint.
			F		21 54			
168	7	L	Z	iP	02 09 47	d	7°.0	strong.
			NE	iS	11 09	E		
			N	e	18 09			0=02h 08m 02s.
			F		02 22			Epic:5½S, 101E (USCGS).
	7	D	Z	eP	02 09 41		6°.0	rather strong.
			NE	eS	10 51	N/W		
			F		02 25			
	7	M	Z	eP	02 10 35		9°.9	rather strong.
			ZNE	eS	12 30			
			F		02 19			
169	7	L	Z	eP	05 17 42		19°.5	rather strong.
			ZNE	iS	21 15	c		0=05h 13m 11s.
			F		05 29			Epic:1½N, 125½E(USCGS).
	7	M	Z	iP	05 18 55	c	27°.1	rather strong.
			Z	i	19 22			S-wave unreadable.
			NE	(eS)	23 34			
			F		05 35			
	7	D	Z	eP	05 18 14		23°.0	
			N	eS	22 21			
			F		05 39			
170	7	L	Z	iP	09 47 29	c		faint.
			ZN	(eS)	54 57			
			F		09 56			Epic:10S, 160½E (USCGS).
171	7	L	Z	iP	13 23 25	c	6°.1	faint.
			NE	(eS)	24 37			
			F		13 32			0=13h 21m 53s.
172	7	L	Z	iPg	23 03 14	c	1°.1	strong, local shock.
			E	(eSg)	28			
			F		23 20			0=23h 02m 52s.
	7	D	Z	iPg	23 03 16			rather strong.
			NE	iSg	49	E		
			F		23 25			
173	8	L	Z	iP	12 03 01	c		
			Z	i	07	c		
			F		12 08			Epic:65S, 125E (USCGS)
[illegible]	7	M	NE	[illegible]	[illegible]			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
MARCH 1960.								
174	8	L	ZNE	iP	16 43 27	d/S/E	61°.0	0=16h 33m 39s.
			Z	iPcP	44 07	d		h=about 250 km.
			ZNE	iS	51 24	d/S/E		Mag: 7 (Berk)
			N	iScS	52 55	N		7-7 1/4(Pas).
				F in coda of no.175				Epic:16½S,168½E (USCGS).
	8	D	ZNE	iP	16 43 29	d/S/E	61°.7	strong.
			Z	iPcP	44 09	c		
			Z	ipP	19	c		
			Z	iPP	45 52	d		
			NE	iS	51 33	N/W		
			NE	isS	53 01	N		
				F in coda of no.175				
175	8	L	Z	(iP)	17 12 30	d		rather strong.
			Z	i	40	d		
			Z	i	48	c		
				F	17 30			
	8	D	Z	eP	17 12 25			
				F	17 25			
176	9	L	Z	iPg	01 45 31	d		small
				F	01 48			
177	10	L	Z	iP	00 14 43	c	19°.5	
			Z	i	15 08	c		
			ZNE	iS	18 19	d		
				F	00 24			0=00h 10m 12s.
	10	M	Z	eP	00 14 18			very faint.
			N	e	15 13			
			Z	e	19 34			
				F	00 23			
178	10	L	Z	eP	09 54 16		53°.0	0=09h 44m 55s.
			N	eS	10 01 46			
				F	10 07			Epic:10S,161E (USCGS).
	10	D	E	e	09 54 26			faint
				F	10 07			
179	10	L	Z	iPg	11 41 07		1°.4	0=11h 40m 37s.
			ZE	eSg	26			
				F	11 44			
180	10	L	Z	eP	13 56 22	c		faint.
				F	14 04			Epic:15S, 174W (USCGS).
	10	M	N	e	13 57 32			
			N	e	59 07			
				F	14 02			
	10	D	Z	e	13 56 26			very faint.
				F	14 02			
181	10	L	Z	iP	14 43 21	d		faint.
				F	14 47			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
MARCH 1960.								
	10	M	Z	iP	14 43 01			h=about 100 km.
			N	e	52 44			
				F	14 59			Epic:47N,152E(USCGS).
	10	D	Z	eP	14 43 20	c		very faint.
				F	14 50			
182	10	L	Z	eP	20 48 18		10°.0	faint.
			N	(eS)	49 52			
				F	20 54			0=20h 45m 50s.
	10	M	Z	eP	20 49 06			very faint.
			ZN	e	51 02			
				F	20 54			
	10	D	Z	e	20 49 46			very faint.
				F	20 54			
183	11	L	Z	iP	04 53 01	d		faint.
				F	04 57			
	11	D	NE	e	04 52 35			faint.
				F	05 02			
184	11	L	Z	eP	16 27 11		19°.1	
			ZE	eS	30 41			
				F	16 37			0=16h 22m 44s.
	11	M	N	e	16 28 26			
				F	16 38			
185	11	M	Z	e	18 16 27			very faint.
			E	e	25			
				F	18 20			
186	12	L	Z	iP	02 22 59	d		very faint.
				F	02 28			Epic:4S, 152½E(USCGS)
								h about 150 km.
187	12	L	ZNE	iP	20 38 54	d/S/E	44°.9	strong.
			Z	iPP	40 41	d		0=20h 30m 35s.
			E	iS	45 32			Mag: 6½(Pas).
				F	20 58			Epic:6S, 152E(USCGS).
	12	M	Z	iP	20 40 12	c	55°.1	rather strong.
			NE	eS	47 54			
			E	i	45 30	W		
				F	20 57			
	12	D	Z	iP	20 39 00	d	45°.1	
			E	ePPP	42 26			
			NE	eS	45 40			
				F	21 02			
188	13	M	Z	iPg	16 44 14	d		1°.1 local shock.
			NE	iSg	28			
				F	16 50			0=16h 43m 52s.
189	15	M	Z	iPg	00 28 32	c/N/W		1°.1 local shock.
			NE	iSg	46	S/E		
				F	00 36			0=00h 28m 10s.

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
190	15	M	Z	ePg	04 13 35	c	3°5	
			NE	eSg	14 17			
				F	04 20			0=04h 12m 39s.
191	15	L	Z	eP	10 20 54	c		very faint.
				F	10 27			Epic:20S, 174W (USCGS).
192	15	L	Z	eP	21 19 10	c		very faint.
				F	21 24			
193	16	L	Z	iP	17 51 17	c	77°4	very faint.
			NE	eS	18 01 07			0=17h 39m 19s.
				F	18 05			Epic:15½S, 173½W (USCGS).
194	16	M	Z	iPg	21 21 22	c	1°5	local shock.
			NE	iSg	42	E		
				F	21 28			0=21h 20m 51s.
195	17	L	Z	i	17 10 01	c		faint.
			Z	i	31	c		
				F	17 13			
196	17	L	Z	eP	19 26 52			in min. break.
				F	19 28			
197	17	M	Z	eP	22 19 57			
				F	22 23			
198	18	L	Z	iPg	15 36 03	d	1°5	0=15h 35m 32s.
			ZN	eSg	23			
				F	15 39			
199	19	L	Z	iP	09 25 42	c	21°0	very faint.
			ZN	eS	29 32			0=09h 20m 56s.
				F	09 32			Epic:2½N, 127E (USCGS).
200	19	L	Z	i	15 48 45	c		very faint.
				F	15 52			
201	19	L	Z	eP	19 21 57	d	31°0	rather strong.
			NE	eS	27 02			
			NE	iScS	32 32			0=19h 15m 36s.
				F	19 39			Epic: 3S, 138E (USCGS).
	19	M	Z	iP	19 23 07	c	38°9	rather strong.
			N	eS	29 06			
				F	19 41			
	19	D	Z	(eP)	19 23 02			faint.
			N	e	48			
			N	e	27 08			
				F	19 38			
202	20	L	Z	iPg	06 13 11	d	1°3	local shock.
			NE	eSg	29			
				F	06 16			0=06h 12m 43s.
203	20	L	Z	iP	07 28 36	d		
			N	i	31 46	N		
				F	07 37			Epic:½N,99E(USCGS).

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
204	20	L	Z	iP	13 46 33	c	56°.5	0=13h 36m 56s.
			N	eS	54 21			h about 60 km.
			F		13 56			Epic:40N, 143½E (USCGS).
205	20	L	Z	iP	17 17 12	c	56°.3	very strong.
			ZE	ipP	17 28	E		0=17h 07m 35s.
			N	ipP	30	N		
			Z	iPP	19 20	d		
			NE	eS	24 56	N/E		
			E	eL	17 40			h about 60 km.
			E	eM	17 47			Mag:7 (Pas)
								7 - 7 1/4(Berk)
			F		19 30			Epic:40N, 143½E (USCGS); 5 feet seismic sea-wave.
	20	D	Z	eP	17 17 12		57°.0	
			Z	ipP	28	d		
			Z	iPP	19 21	c		
			Z	iPPP	20 44	d		
			NE	eS	25 00			
			N	iScS	26 42	S		
			N	iSSS	31 04	S		
			NE	eL	17 35			
			F		19 20			
206	21	L	Z	eP	09 28 06	c		faint.
			F		09 34			Epic:40N, 143E (USCGS).
207	21	L	Z	iP	11 52 17	c	75°.4	0=11h 40m 29s.
			ZN	(eS)	12 01 57			
			F		12 05			Epic:16½S, 172½W (USCGS).
208	21	L	Z	iPg	13 04 07	d	1°.3	local shock.
			ZN	eSg	25			
			F		13 07			0=13h 03m 39s.
209	21	L	Z	eP	16 46 10			very faint.
			F		16 51			Epic:4½S, 154E (USCGS).
210	21	L	Z	i	20 08 48	c		
			F		20 11			Epic:21S, 70½W (USCGS).
211	21	L	Z	iPg	23 45 40	d/S/E	0°.7	strong local shock.
			NE	(eSg)	50			
			F		23 51			0=23h 45m 24s.
	21	D	Z	e	23 46 28			
			F		23 50			faint.
212	22	L	Z	iP	02 41 59	d	65°.6	
			N	eS	50 44			
			F		02 53			0=02h 31m 09s.
	22	D	NE	e	02 42 12			
			NE	eS	51 48			
			F		03 04			faint.

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	R e m a r k s
MARCH 1960.								
213	22	L	Z	iPg	12 07 36	d	1°.3	local shock.
			NE	eSg	54			
				F	12 12			0=12h 07m 07s.
	22	D	NE	e	12 07 01			
				F	12 12			
214	22	L	Z	iP	13 59 18	d		h about 150 km.
				F	14 05			Epic:60½S, 153E (USCGS).
215	22	L	ZNE	iPg	21 13 16	d/N/W		strong, unreadable.
				F	21 21			Epic: Near coast of Western Java. h about 150 km (USCGS).
	22	D	Z	iPg	21 13 15	c		
			ZNE	iSg	29	d/N/E		
				F	21 28			strong.
216	23	L	N	eP	00 33 08		57°.0	0=00h 23m 23s.
			E	eS	41 02			Mag: 6 3/4 - 7(Berk).
				F	01 04			6½ - 6 3/4(Pas).
								Epic:39½N, 143E (USCGS).
	23	D	NE	iP	00 33 13	N/E	57°.0	strong.
			NE	iS	41 07	S/W		
				F	in coda of no.217			
217	23	L	Z	iP	01 17 01	e	56°.3	0=01h 07m 16s.
			NE	eS	24 51			
				F	01 30			Epic:39½N,143E (USCGS).
	23	D	NE	(eP)	01 16 41			faint.
			NE	eS	24 49			
				F	01 36			
218	23	L	Z	iPg	06 04 40	d	1°.3	local shock.
			ZN	eSg	58			
				F	06 09			0=06h 04m 11s.
219	23	L	Z	iP	08 56 28	d		very faint.
			N	e	09 03 48			
				F	09 08			Epic:40N,142½E (USCGS).
220	23	L	Z	eP	10 14 35		6°.0	
			NE	(eS)	15 45	N		
				F	10 21			0=10h 13m 03s.
221	23	L	Z	e	10 54 11			very faint.
				F	10 58			
222	23	L	Z	iP	12 00 42	d		
			Z	i	01 00	c		
				F	12 06			Epic:39½N,143E (USCGS).

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
223	23	L	Z	iP	22 32 17	d	55°.7	0=22h 22m 37s.
			NE	eS	40 03			Mag: 6 (Pas)
				F	22 45			Epic: 39½N, 143E (USCGS).
	23	D	NE	e	22 38 20			very faint.
				F	22 55			
224	25	L	Z	iPg	21 55 21	c		small shock.
				F	22 01			strong.
	25	D	Z	i	21 55 30	d		faint.
			N	iS	54	S		
				F	22 02			
225	27	L	Z	iP	03 58 21	c	58°.0	strong.
			ZN	ePP	04 00 31			
			ZN	ePPP	01 53			
			NE	eS	06 21			0=03h 48m 24s.
				F	04 15			Mag:6½(Berk).
								Epic:13½S, 166E (USCGS).
	27	D	Z	iP	03 58 29	d	58°.9	
			N	ePcP	59 18			
			NE	eS	04 06 34			
				F	04 23			
226	27	L	Z	iP	09 07 49	d	58°.0	0=08h 57m 52s.
			Z	iPP	09 57	c		
			N	(iPPP)	10 05			
			NE	iS	15 49	S		Mag:6½(Berk).
				F	09 32			Epic:13½S,166E(USCGS).
	27	D	Z	eP	09 07 51		59°.0	
			Z	ePP	10 03			
			E	iS	15 58	W		
				F	09 30			
227	27	L	Z	iPg	15 06 13	d	1°.1	0=15h 05m 51s.
			ZNE	iSg	27	d/E		
				F	15 08			
228	27	L	Z	eP	19 45 14		57°.5	0=19h 35m 21s.
			ZN	eS	53 11			
				F	20 02			Epic:19h 35m 21s.
229	27	L	Z	$iPKP_1$	20 35 15	d		Mag: 5 3/4 - 6(Berk).
			Z	i	25	d		6 - 6 1/4(Pas).
				F	20 44			Epic: 20N, 104½W (USCGS).
230	27	L	Z	iP	23 39 05	d	65°.8	0=23h 28m 16s.
			Z	iPcP	35	c		
			Z	i	40 01	c		
			NE	(eS)	47 47	N		
				F in change of record.				Epic:37½S,177E (USCGS).
231	28	L	Z	$iPKP_1$	00 33 51	c		
			ZN	i	39 01	c		Mag:6 1/4 - 6½(Berk).
			Z	i	43 17			6½ - 6 3/4(Pas).
				F	00 45			Epic:7½N, 82W(USCGS).

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
232	28	L	Z	iP	06 45 55	d	58°.0	0=06h 36m 30s.
			ZN	ePcP	46 44			
			Z	ePP	48 03			
			Z	iPPP	49 35	c		
			NE	eS	52 31			h about 300 km.
				F in coda of no.233				Epic:13½S,165E (USCGS).
233	28	L	Z	iP	06 52 39	c/N	58°.0	0=06h 42m 42s.
			ZN	eS	07 00 39			
				F	07 05			Epic:13½S, 166E (USCGS).
234	28.	L	Z	i	12 49 30	d		very faint.
				F	12 52			Epic:23S,176W(USCGS).
235	29	L	Z	iP	06 41 00	d	60°.1	rather strong.
			Z	iPP	43 14	d/N		
			NE	iS	49 13	S		
			N	iScS	50 47			0=06h 30m 49s.
				F in coda of no.236.				
	29	D	Z	iP	06 41 08	c	60°.3	strong.
			NE	ePP	43 23			
			N	e	44 22			Epic:17S, 167E(USCGS).
			NE	iS	49 22	c/E		Mag: 6 3/4(Pas).
				eL	07 03			6 1/4 - 6½(Berk).
				F	07 20			
236	29	L	Z	iP	07 33 27	c		
			NE	e	36 41			
				F	07 50			Epic:0, 98E(USCGS).
	29	D	NE	e	07 35 50			faint.
				F	07 45			
237	29	L	Z	iP	22 17 58	c	40°.3	rather strong.
			NE	eS	24 06			
			ZN	eScS	28 08			
				F	22 34			Epic:6S, 147E(USCGS).
	29	D	Z	e	22 18 38			
				F	22 25			
238	30	L	Z	eP	10 59 43		58°.0	rather strong.
			Z	iPP	11 01 51	c		
			ZNE	eS	07 43			0=10h 49m 46s.
			E	ePPS	08 08			Mag: 6(Berk).
				F	11 17			Epic: 13½S,166E (USCGS).
	30	D	ZNE	eP	11 00 02		60°.7	
			NE	e	07 10			
			NE	e	07 58			
			NE	eS	08 18			
				F	11 25			
	30	L	Z	iPg	14 13 22	d	0°.7	strong.
			NE	(eSg)	32			
				F	14 22			0=14h 13m 06s.

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
MARCH 1960.								
	30	D	Z	iP	14 13 06			
			NE	e	14 10			
				F	14 27			
240	30	L	Z	iP	15 30 14	c	66°.1	0=15h 19m 23s.
			N	iS	39 02	S		
				F	15 43			Epic:22½S,174E (USCGS).
APRIL 1960.								
241	1	M	Z	iPg	11 05 31	d	1°.5	small.
			NE	eSg	51			
				F	11 12			0=11h 05m 03s.
242	2	L	Z	iP	23 04 27	d	6°.0	
			ZN	eS	05 37			
				F	23 16			0=23h 02m 55s.
243	3	L	Z	iP	05 18 10	d		h about 550 km.
				F	05 22			Epic:28N,139E(USCGS).
244	3	M	Z	e	10 48 43	E		faint.
				F	10 52			
245	4	L	Z	iPg	00 27 25	d		
				F	00 29			small.
246	4	L	Z	ePg	08 05 27		53°.7	0=07h 56m 13s.
			ZN	eS	12 51			h about 100 km.
				F	08 19			Epic:10S,161½E (USCGS).
	4	M	Z	ePg	08 06 42			faint.
				F	08 10			
247	4	L	Z	ePg	10 15 30			
				F	10 19			small.
248	5	M	Z	e	08 58 44			faint.
			N	i	59 14	S		
				F	09 03			
249	5	M	Z	e	17 40 22			
				F	17 45			faint.
250	5	M	Z	e	23 51 16			
				F	23 55			
251	6	L	Z	iP	07 38 07	d		small.
				F	07 39			
252	7	L	Z	e	02 30 32			
				F	02 36			faint traces.
253	7	L	Z	iP	13 59 00	d	68°.0	
			Z	iPcP	25	d		
			ZNE	iS	14 07 40	d/N/E		
				F	14 12			0=13h 48m 23s.

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
APRIL 1960.								
254	7	L	Z	iP	00 08 13	d	28°.9	
			NE	(eS)	13 03			
				F	00 22			0=00h 02m 10s.
255	8	L	Z	$iPKP_1$	03 22 49	d		rather strong.
			ZNE	$iPKP_2$	23 45	d/S/E		
				F	03 30			0=03h 02m 53s.
256	8	L	Z	iP	08 43 04	d	46°.5	faint.
			Z	iS	49 52	c		
				F	08 50			0=08h 35m 37s.
	8	M	Z	eP	08 44 26	c	51°.1	faint.
			N	eS	51 44			
				F	09 00			
257	10	L	Z	iPg	07 24 37	d	1°.5	local shock.
			NE	eSg	57			
				F	07 29			0=07h 24m 05s.
258	10	M	Z	iP	15 41 00	c	6°.1	strong.
			E	iS	42 11	E		
				F	15 54			0=15h 39m 28s.
259	12	L	Z	ePg	00 12 05		1°.5	
			NE	eSg	25			
				F	00 15			0=00h 11m 33s.
260	12	L	Z	ePg	10 52 25		1°.8	local shock.
			ZNE	eSg	49			
				F	10 55			0=10h 51m 48s.
261	12	L	Z	iPg	22 38 29	d	1°.7	
			ZNE	iS	51	S		
				F	22 43			0=22h 37m 54s.
262	12	L	Z	iP	00 01 56	d		
			Z	i	02 40	c		
				F	00 03			faint.
263	14	L	Z	iPg	02 10 46	d		
				F	02 13			faint.
264	14	L	Z	ePg	06 27 03		10°.1	0=06h 24m 30s.
			NE	eSg	29 15	S		
				F	06 37			Epic:8S, 118E (USCGS).
	14	M	Z	eP	06 29 33		22°.6	
			N	(eS)	33 37			
				F	06 43			
	14	D	E	e	06 28 36	W		
			N	e	30 10	N		
				F	06 40			
265	14	L	Z	ePg	11 39 29	d	3°.1	local shock.
			Z	iS	40 09	d		
				F	11 43			0=11h 38m 26s.
266	15	L	Z	eP	04 23 17			faint
			Z	e	25 51			
				F	04 27			Epic:13½S

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
APRIL 1960.								
267	15	L	ZN	iP	11 48 37	c/N	56°0	faint.
			ZNE	iS	56 25			
				F	11 59			0=11h 38m 54s.
	15	M	Z	eP	11 48 11		53°0	
			NE	eS	55 40	S		
			E	eSS	11 59 26			
				F	12 03			
268	15	M	Z	e	18 52 27			
			N	e	45			
			E	e	53 05			
				F	18 58			faint.
269	15	L	ZNE	iP	22 15 02	d/N/E	58°0	rather strong.
			ZNE	ePcP	55	c		
			ZN	iPP	17 16	d/S		
			ZN	ePPP	18 32			0=22h 05 06s.
			ZNE	eS	23 01			Mag: 6½(Pas).
			NE	eScS	24 52			Epic:13½S,166E
				F	22 39			(USCGS).
	15	M	Z	eP	22 16 20			no clear S-wave.
			Z	e	21			
			NE	e	25 55			
			NE	e	26 30			
				F	22 37			
	15	D	Z	eP	22 14 48	c		faint.
			Z	e	15 06	c		
			N	e	23 10	S		
				F	22 42			
270	15	M	E	e	22 45 38			faint.
			N	e	56			
				F	22 50			
271	16	M	E	e	13 23 57			very faint.
				F	13 27			
272	16	L	Z	iP	20 00 12	d		very faint.
				F	20 05			
273	17	L	Z	i	09 15 49	c		faint.
				F	09 19			
	17	M	Z	e	09 17 23			faint.
			N	(eS)	20 45			
				F	09 22			
274	18	M	Z	iP	08 16 19		29°1	
			Z	e	17 37			
			NE	eS	21 11			
				F	08 27			0=08h 10m 13s.
	18	L	Z	iP	08 14 59	c		faint.
			Z	i	16 29			
				F	08 19			
275	18	L	Z	eP	14 58 13			faint.
				F	15 04			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
APRIL 1960.								
276	18	M	Z	eP	15 18 20			faint.
			N	i	19 45	S		
				F	15 23			
277	18	M	NE	e	15 27 47			very faint.
				F	15 31			
278	18	L	Z	iPg	20 08 38	c	2°.2	
			NE	eSg	09 08			
				F	20 12			0=20h 07m 51s.
279	22	M	Z	ePg	16 15 30		3°.0	strong.
			ZNE	iSg	16 09	W		
				F	16 32			0=16h 14m 29s.
	22	L	Z	eP	16 17 30			faint.
			ZN	e	20 38			
				F	16 27			
280	22	L	Z	iP	20 38 01	c	76°.0	rather strong.
			Z	iPcP	11	c		
			Z	ipP	54	c		
			NE	eS	47 26			0=20h 26m 34s.
				F	20 49			h about 200 km.
								Epic:17½S,174½W (USCGS).
	22	M	Z	eP	20 39 01		88°.0	
			NE	eS	49 27			
				F	20 55			
281	24	D	Z	iP	03 24 14	d	6°.5	0=03h 22m 28s.
			N	iS	25 39	N		h about 600 km.
				F	04 16			Epic:6S, 113½E (USCGS).
	24	M	Z	iP	03 26 03	c	17°.8	strong.
			ZNE	ePP	26 51			
			ZE	ePPP	27 07	d/E		
			Z	iS	28 55	c/S		
				F	04 02			
	24	L	ZNE	iP	03 24 08	d/S/E		very strong, S-wave
			NE	iScS	36 08	N/E		unreadable.
				F	05 10			
282	24	L	NE	eP	12 24 50			Epic:28N,54½E (USCGS);Southern Iran 500 dead, many injured and major property damage at Gerash and Lar.
			NE	e	33 40			
				F	12 36			
	24	M	ZN	(eP)	12 23 15	N		faint.
			N	e	29			
			E	e	25 11			
			N	e	32 30			
				F	12 39			
283	25	L	Z	iP	04 16 06	c		
			Z	i	35			
				F	04 20			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	R e m a r k s
APRIL 1960.								
284	26	M	Z	e	14 02 44			faint.
			NE	e	03 44			
				F	14 08			
285	27	L	Z	eP	22 49 43			very faint.
				F	22 52			Epic:18N,120E (USCGS).
286	28	M	Z	i	01 13 57	d		
			N	i	14 17	N		
				F	01 17			
287	28	M	Z	eP	01 17 48		4°.9	
			NE	iS	18 47	E		
				F	01 22			0=01h 16m 32s.
288	28	M	Z	i	01 35 07	d		very faint.
				F	01 38			
289	28	L	Z	iP	12 06 00	d		faint.
			Z	i	18	c		
				F	12 10			
	28	M	Z	e	12 06 27			
				F	12 14			
290	29	L	Z	eP	09 20 08			
				F	09 24			Epic:0,121½E(USCGS).
	29	M	Z	eP	09 21 20	c		
			NE	e	22	E		
				F	09 24			
291	29	L	Z	iP	09 57 19	c	16°.7	0=09h 53m 22s.
			ZN	iS	10 00 26			
				F	10 07			Epic:0,122E(USCGS).
	29	M	Z	iP	09 58 40	c	23°.8	
			NE	e	44			
			Z	ePP	59 12			
			NE	eS	10 02 53	S/W		
			E	eSS	03 49	W		
				F in coda of no.292.				
	29	D	Z	eP	09 57 21	d	16°.9	faint.
			NE	eS	10 00 28			
			NE	e	10 01 28			
				F in coda of no.292.				
292	29	L	Z	iP	10 09 57	c	16°.7	rather strong.
			NE	eS	13 05			0=10h 06m 00s.
				F	10 20			Epic:0,122E(USCGS).
	29	M	Z	eP	10 11 26	c	24°.0	
			Z	iPP	36	c		
			Z	iPPP	12 10			
			NE	eS	15 39			
			E	eSS	16 32			
				F	10 26			
	29	D	Z	iP	10 10 01	c	16°.2	
			N	iS	13 01			
				F	10 24			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
APRIL 1960.								
293	29	L	Z	iP	13 37 08	c	16°.7	rather strong.
			Z	iPP	37 22	d		
			NE	eS	48 18			0=13h 33m 11s.
				F	13 54			Epic:0, 122E(USCGS).
	29	D	Z	eP	13 37 16		17°.3	faint.
			N	eS	40 28			
			E	i	41 13			
				F	13 54			
294	29	L	Z	iP	18 59 29	c	16°.8	0=18h 55m 32s.
			NE	eS	19 02 39			
				F	19 07			Epic:½S,121½E(USCGS).
	29	M	Z	eP	19 00 54	c		
			Z	e	01 04			
			Z	e	18	c		
				F	19 10			
295	29	L	Z	eP	19 16 43			
				F	19 20			
	29	M	Z	iP	19 18 09	c		no clear S-wave.
			Z	e	20	c		
			Z	e	42	c		
				F	19 23			
296	29	L	ZNE	iP	19 35 55	d/N/E	16°.8	very strong.
			Z	iPP	36 03	c		
			ZNE	iS	39 03	c/S/W		
			ZNE	ePcP	40 45	c/S		
			ZNE	eScS	47 55			0=19h 31m 58s.
				F	19 57			Epic:0, 122E(USCGS).
	29	D	Z	iP	19 36 01	d	16°.8	strong.
			NE	ePP	16			
			NE	eS	39 08	W		
				F	20 00			
	29	M	Z	eP	19 37 24	d	24°.0	strong.
			Z	ePcP	41 02			
			NE	iS	36			
				F	19 58			
297	29	L	ZNE	iP	20 48 10	c/S/W	16°.8	strong.
			Z	iPP	34	d		
			ZNE	iS	51 17	d/N/E		
			ZNE	ePcP	53 00			0=20h 44m 13s.
			ZNE	eScS	21 00 20	S		Epic:0,121½E(USCGS).
				F	21 05			
	29	M	Z	iP	20 49 38	d	23°.6	strong.
			NE	iP	40	N		
			NE	iS	53 40			
			Z	e	54 28			
				F	21 04			
	29	D	Z	eP	20 48 16	c		
			N	e	51 28	S		
				F	21 00			

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No.	Date	Stat.	Comp.	Phase	Time (GMT)	Dir.	△	Remarks
APRIL 1960.								
298	30	L	Z	iP	00 23 58	c	16°8	0=00h 20m 01s.
			NE	eS	27 06			
				F	00 37			Epic:0,122E(USCGS).
	30	M	Z	eP	00 25 21	c	24°0	strong.
			E	eP	23	E		
	30	D	E	e	00 24 58			
				F	00 35			
299	30	L	Z	e	02 57 37			
				F	03 03			
300	30	L	Z	eP	04 05 15	d	16°8	strong.
			NE	iS	08 23	N/E		
			ZN	ePcP	10 05			0=04h 01m 18s.
				F	04 27			Epic:0,122E(USCGS).
	30	D	Z	iP	04 05 21	d	16°5	rathers strong.
			NE	eS	08 25			
				F	04 30			
	30	M	Z	iP	04 06 44	c	23°6	
			E	eP	46	N		
			Z	ePP	07 14			
			NE	eS	10 56			
				F	04 25			
301	30	L	Z	eP	08 44 58			faint.
				F	08 51			
302	30	L	Z	iP	10 15 10	c		
				F	10 19			
	30	M	Z	eP	10 16 35	c	23°6	0=10h 11m 20s.
			NE	eS	20 47	S		
				F	10 24			Epic:0,121½E(USCGS).
	30	D	Z	e	10 15 59	c		
				F	10 26			
303	30	L	Z	iP	13 15 15	c	16°8	0=13h 11m 18s.
			Z	eS	18 23			
				F	13 19			Epic:0, 122E.
	30	M	Z	e	13 16 42			
				F	13 20			
304	30	L	Z	iP	14 25 49	d	16°8	
			Z	(eS)	28 57			0=14h 21m 52s.
				F	14 33			
305	30	L	Z	iP	21 57 16	d		
				F	22 04			
306	30	L	ZNE	iP	22 13 33	c	16°7	
			Z	ePP	14 20			
			ZNE	iS	16 17	c/W		0=22h 10m 09s
			ZNE	eSS	17 26			h about 600 km.
			ZNE	eScS	24 02	S		Epic:6S,124½E
				F	22 28			(USCGS).

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
APRIL 1960.								
	30	M	Z	iP	22 15 07	c	27°5	
			ZN	iPP	16 42	N		
			ZN	iPPP	56			
			ZNE	eS	19 07			
			N	eSS	21 49			
			NE	iScS	24 37	N/E		
				F	22 34			
307	30	M	Z	eP	23 14 22	c	23°6	
			E	eP	24	E		
			NE	eS	18 34	N		
				F	23 26			0=23h 09m 09s.
	30	D	Faint traces between 23h 13m and 23h 23m.					

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ROY. OBSERVATORY
17 OCT 1961
EDINBURGH

International Seismological Centre From the ISC collection scanned by SISMOS

Department of Air Communication

Meteorological and Geophysical Institute

D J A K A R T A

SEISMOLOGICAL BULLETIN

MAY, JUNE 1960.

Geographical position of the stations

Djakarta : Lat. 06°11'S. Long.:106°50'E. h=8m.
Foundation : River Quarternary.
Seismograph: Wiechert Z = 1300 Kg.
Wiechert N & E = 1000 Kg.

Lembang : Lat. 06°50'S. Long.:107°37'E. h=1295m.
Foundation : Quarternary volcanics.
Seismograph: Sprengnether Z (T=1.4 sec).
Sprengnether N (T=3.4 sec).
Sprengnether E (T=17.7 sec).

Medan : Lat. 03°33'N. Long.: 98°41'E. h=32m.
Foundation : Marine sediments.
Seismograph: Sprengnether Z (T=1.5 sec).
Sprengnether N (T=1.5 sec).
Sprengnether E (T=1.5 sec).

Constants of the Wiechert Seismograph:

DJAK	NS-Component					EW-Component					Z-Component				
1960	T	r	E	V	e	T	r	E	V	e	T	r	E	V	e
May	7.6	0.51	2.02	215	1.34	7.6	0.33	2.77	215	1.49	4.0	0.22	2.26	-	1.43
June	7.6	0.51	2.32	215	1.56	7.6	0.35	2.81	215	1.42	4.0	0.22	2.26	-	1.31

Abbreviations used in the bulletin:

D = Djakarta station.
L = Lembang station.
M = Medan station.
c = a compressive first movement.
d = a dilatational first movement.

R e m a r k s:

Records of Medan station are not available from May 21 up to June 7 1960.

Meteorological and Geophysical Institute

Ir. Suroto Hongunsumarto
(Director).

Address:

Meteorological and Geophysical Institute
Djalan Geredja Inggris 3
DJAKARTA IV/11 (INDONESIA).

Stc. No. 336/60/LMG.

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
MAY 1960.								
308	1	D	ZE	• F	00 13 52 00 23			faint
309	1	L	Z NE Z	iP eS ePcP F	04 15 36 18 36 20 31 04 25	d	16°.2	0 = 04h 11m 45s. Epic:0,122E(USCGS)
	1	M	Z NE	iP eS F	04 16 59 21 07 04 26	d	23°.2	
	1	D	ZE NE	e e F	04 15 40 19 48 04 28			
310	1	L	Z NE	iPg eSg F	10 06 07 21 02 17	c	1°.1	small shock. 0 = 10h 06m 45s.
311	2	L	Z	iP F	02 13 27 02 17	c		very faint.
312	2	M	Z E	ePg (eS) F	03 29 49 21 03 36	d	2°.6	rather strong. 0 = 03h 29m 07s.
313	2	L	Z	ePg F	04 09 31 04 13			faint.
314	2	M	Z	e F	04 23 02 04 28			faint. Epic:28S,176W(USCGS)
315	2	L	Z	iP F	05 15 31 05 20	c		faint. Epic:½S,121E(USCGS)
	2	M	Z NE	iP eS F	05 16 57 21 05 05 24	d	23°.2	0 = 05h 11m 48s.
316	2	L	Z NE	iP eS F	11 55 20 58 20 12 05	d	16°.2	0 = 11h 51m 29s. Epic:0,121½E(USCGS)
	2	M	Z NE	iP eS F	11 55 43 12 02 50 12 07	c	23°.2	
317	2	L	ZNE NE Z E	iP iS ePcP e F	12 13 58 16 58 18 53 19 24 12 32	c/S/W	16°.2	strong. 0 = 12h 10m 11s. Epic:0,121½E(USCGS)
	2	D	Z NE	eP eS F	12 14 00 17 02 12 37		16°.4	rather strong.
	2	M	Z NE NE NE	iP iS i eScS F	12 15 22 19 32 23 22 26 53 12 36	c/S N/E	23°.4	strong.

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
318	3	M	Z	eP	08 00 48	c	26.3	rather strong.
			ZNE	ePPP	01 39			
			NE	eS	05 20			
			F	in coda of no.319.				0 = 07h 55m 10s.
319	3	M	NE	i	08 09 25	N		
			N	e	10 37			
			.	F	08 19			Epic:24S,179W (USCGS)
320	3	M	Z	iP	08 40 05	d		faint.
				F	08 42			Epic:24S,179W (USCGS)
321	3	L	Z	iP	13 25 53	d	16°.2	rather strong.
			NE	iS	28 53	d/N/E		
			NE	ePcP	30 53			
			Z	eScS	13 37 53			0 = 13h 22m 02s.
			F		13 43			Epic:0,121½E (USCGS).
	3	D	Z	eP	13 26 17		17°.1	
			NE	eS	29 27			
			F		13 47			
	3	M	traces between		13h 26m and 13h 45m			no minute maike.
322	3	L	Z	iP	22 31 20	d		faint.
				F	22 26			Epic:32N,140E (USCGS)
								h about 150 km.
323	4	L	Z	iP	00 08 14	d		
				F	in coda of record.			
324	4	L	Z	iP	18 30 25	d	16°.2	0 = 18h 26m 34s.
			ZN	eS	33 25			
			F	in coda of no.18				Epic:0,122E (USCGS).
325	4	L	Z	iP	18 40 21	c		very faint.
				F	18 50			Epic:20S,173E(USCGS).
326	5	L	Z	eP	02 41 08			faint.
				F	02 43			
327	5	M	Z	eP	04 19 25			very faint.
				F	04 28			
328	6	M	Z	eP	12 19 07		4°.7	rather strong.
			NE	iS	20 03	S/E		
				F	12 24			0 = 12h 07m 55s.
329	6	L	Z	iPg	15 56 39		2°.2	
			NE	eSg	57 08			
				F	16 00			0 = 15h 55m 54s.
	6	D	Z	i	15 56 50			
				F	15 59			
330	6	M	Z	ePg	22 24 14		2°.2	
			NE	eSg	44			
				F	22 28			0 = 22h 23m 27s.
331	7	M	Z	e	08 52 17			faint.
				F	08 56			
332	9	L	Z	iP	02 50 35	c	17°.6	faint.
			NE	eS	53 51			0 = 02h 46m 27s.
				F	02 55			Epic:5½N,122E(USCGS).

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
	9	M	Z	iP	02 51 22		23°.5	
			NE	(eS)	55 30			
				F	02 57			
333	9	L	Z	eP	20 33 02			faint.
				F	20 37			Epic: Pacific Ocean about 900 miles southeast of Galapagos Islds (USCGS).
334	10	M	Z	e	19 17 15			faint.
			NE	e	43			
				F	19 23			
335	11	L	Z	eP	03 59 28		15°.4	strong.
			NE	eS	04 02 23			
			NE	eL	07 38			
				F	04 27			0 = 03h 55m 48s.
	11	D	Z	i(P)	03 59 29		9°.5	P wave uncertain
			NE	iS	04 01 34	N		
				F	04 32			
	11	M	NE	e	04 03 24			
			NE	e	05 38			
				F	04 23			
336	11	M	Z	i	07 03 10	c		faint.
			NE	i	28	n/E		
				F	07 08			
337	11	L	Z	iPg	17 33 53	d		
				F	17 35			
338	11	L	Z	eP	18 41 13	d	23°.7	strong.
			Z	iPP	46	d		
			NE	eS	45 25			
			NE	eSS	46 25			0 = 18h 35m 59s.
			NE	eL	18 50			Epic:3S,131E (USCGS).
				F	19 05			Mag: 6½ (Pas).
	11	D	Z	iP	18 41 19		22°.5	no time correction.
			E	iS	45 22			
			E	(eScS)	52 31			
				F	18 58			
	11	M	Z	(eP)	18 42 18	c	29°.9	
			NE	eS	47 15			
				F	19 04			
339	12	L	ZNE	iP	06 23 01	N/W		strong, S-wave unreadable.
				F	06 34			
	12	D	Z	iPg	06 22 48	d	1°.6	strong.
			NE	iSg	23 09	E		
				F	06 35			
	12	M	Z	eP	06 25 00	c	10°.3	0 = 06h 22m 34s.
			NE	(eS)	26 54			
			E	ePcP	30 01			
			N	iPcP	18			h about 100 km.
			N	e	32 22			Epic:5½S,105½E (USCGS).
				F	06 38			
340	12	M	Z	eP	11 51 15			
				F	11 54			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
341	12	D	N	e	22 53 10			
			N	e	58 55			
				F	23 12			Epic:7½N,80½W (USCGS)
342	13	M	NE	e	16 20 46			faint.
				F	16 28			
	13	L	Z	e	16 24 38			very faint.
				F	16 28			
343	13	L	Z	e	20 58 02			
				F	21 05			
344	14	M	Z	eP	22 31 04			
				F	22 35			Epic:53½N,159½E(USCGS)
345	15	L	Z	ePg	08 49 35			
				F	08 52			
	15	D	Z	iPg	08 49 25		1°.8	
			NE	iSg	49 49			
				F	08 54			0 = 08h 48m 48s.
346	16	L	Z	iPg	11 48 55	c		small.
				F	11 50			
347	16	M	Z	ePg	18 50 58	c	2°.4	rather strong.
			NE	e	51 08	N		
			NE	eSg	30			
				F	18 57			0 = 18h 50m 08s.
348	16	L	Z	iPg	20 25 54	d/S	1°.5	strong.
			NE	eSg	26 14			
				F	20 29			0 = 20h 25m 22s.
	16	D	Z	i	20 26 02	d		
				F	20 30			
349	17	M	Z	e	05 59 27			small.
				F	06 04			
350	17	M	ZN	faint traces between 20h 41m and 20h 44m.				
351	18	L	ZN	iP	06 42 54	c/N	43°	strong.
			ZNE	ipP	43 17			
			ZNE	eS	49 12			h about 100 km.
				F	06 59			0 = 06h 35m 03s.
	18	D	Z	iP	06 42 55	d	42°	
			NE	e	42 56			
			N	iPP	44 27	N		
			NE	iS	49 06	W		
			E	(eScS)	52 31			
				F	07 02			
	18	M	ZNE	eP	06 42 36	d/N	39°.9	strong.
			Z	epP	56			
			Z	ePcP	44 42			
			NE	iS	48 33	N/W		
			N	(eScS)	52 33			
				F	07 01			
352	18	M	Z	e	09 52 27			faint.
			Z	e	53 40			
				F	09 56			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
353	18	L	Z	eP	18 12 38		16°.2	rather strong.
			Z	i	13 10	c		
			NE	eS	15 38			
				F	18 21			0 = 18h 08m 47s.
	18	D	Z	e	18 12 42			very faint.
				F	18 20			
	18	M	Z	iP	18 13 57	c	22°.9	strong.
			NE	eS	18 03			
				F	18 24			
354	19	M	Z	eP	02 14 30		54°.5	
			NE	eS	22 08			
				F	02 30			0 = 02h 04m 59s.
355	19	L	Z	iP	10 19 48	d	42°.7	strong.
			Z	i	20 04	d		
			Z	i	20	d		
			Z	i	35	c		
			Z	iPcP	21 38			
			ZNE	eS	10 26 12			0 = 10h 11m 48s.
				F	10 17			Epic:17S,66E (USCGS).
	19	D	Z	eP	10 19 55		42°	rather strong.
			NE	(eS)	26 14			
				F	11 08			
	19	M	Z	iP	10 19 40		42°.1	
			NE	i	20 29	N/E		
			Z	e	39			
			NE	e	24 12			
			NE	eS	26 01			
			NE	e	34 00			
				F	10 59			
356	20	L	Z	e	00 30 33			faint.
				F	00 34			Epic:3½S,147½E (USCGS)
	20	M	traces between 00h 32m and 00h 43m.					
357	20	L	Z	eP	07 30 32			
				F	07 35			
358	20	M	Z	eP	09 16 30			very faint.
				F	09 35			
359	20	L	Z	iP	11 22 45	c	61°.4	strong.
			ZNE	iPP	25 03	c		
			ZNE	eS	31 05			
				eL	11 46			0 = 11h 12m 24s.
				F	12 08			Epic:28s,167½E(USCGS)
								Mag: 6½ - 6 3/4(Pas).
	20	D	NE	(eP)	11 22 49		62°.3	
			NE	eS	31 15			
				eL	11 49			
				F	12 08			
	20	M	Z	eP	11 24 05	c	76°	rather strong.
			NE	eS	33 47			
			E	e	34 07			
				F	12 01			

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No.	Date	Stat.	Comp.	Phase	G.	M.	T.	Dir.	△	R e m a r k s
360	20	L	Z	iPg	18	43	14	c	2°.6	strong local shock
			ZE	iSg			48	W		
			E	i		44	24	W		
			ZNE	e		46	44	E		
			E	e		50	26			
			Z	e		51	33			
				F	18	58				0 = 18h 42m 20s.
	20	D	Z	iPg	18	43	03	d	1°.8	strong.
				iSg			27			
				F	18	55				
	20	M	E	e	18	46	04			very faint.
			N	e		48	57			
			E	e		49	33			
				F	18	56				
361	20	L	Z	iP	20	45	52	d		faint.
			ZN	(eS)		49	48			
				F	20	51				
362	21	L	Z	iP	08	22	40	d		
			Z	e		26	34			
				F	08	28				Epic:15½N,121½E(USCGS)
363	21	L	Z	iPKP$_1$	10	22	13	c	136°	strong.
			NE	ePKP$_1$			19			
			Z	i			33	d		
			NE	e			53			0 = 10h 02m 50s.
			Z	ePP		24	59			Epic:37½S,73½W(USCGS)
			ZNE	iPKS		25	48	S		Mag: 7 1/4 - 7½(Berk)
			Z	iPPP		27	55			Remarks:Many casualties
			ZN	eSKS		29	25			and extensive
				F in coda of number 364.						property damage at Conception and surrounding area.
	21	D	NE	ePKP	10	22	12		136°	
			NE	iPP		25	00			
			NE	ePKS		25	48	N		
			NE	e		35	42	N		
				eL	11	08				
				F	13	05				
364	21	L	Z	i	10	43	19	d		
				F in coda of number 365.						
365	21	L	Z	i	11	18	45	c		
				F	12	37				
366	21	L	Z	e	13	19	23	c		
			Z	e		22	03			
			Z	e			49	d		
			N	e			57			
				F	13	30				Epic:37½S,72½W(USCGS)
367	21	L	Z	iPg	18	28	00	d	4°.6	strong local shock
			Z	i			14	d		
			NZ	eSg		29	00			0 = 18h 26m 28s.
				F	18	37				
	21	D	Z	e	18	28	26			
				F	18	35				
368	22	L	Z	ePg	03	54	27			small.

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
369	22	L	Z	ePKP	10 50 00	d	136°	0 = 10h 30m 47s.
			Z	iPP	52 43	d		Epic:37½S,73½W(USCGS)
			F	in coda of number 370.				Mag: 6½ (Pas).
								6 1/4 (Berk).
	22	D	Z	ePKP	10 50 12		136°	
			E	(ePP)	52 52			
			F	in coda of number 370.				
370	22	L	Z	ePKP	10 52 02			Epic:37½S,73W(USCGS).
			F		11 12			Mag: 7 1/4-7½ (Pas).
								7 (Berk).
	22	D	Z	ePKP	10 52 12			
				eL	11 45			
			F		12 20			
371	22	L	Z	i	13 14 33			faint.
			F		13 20			
372	22	L	Z	iPKP	19 15 21	d	136°	strong.
			Z	iPP	18 05	c		
			NE	ePKS	37			0 = 18h 55m 58s.
			F	in coda of number 373				Epic:37½S,73W(USCGS).
				of				Mag: 7 3/4 (Berk).
	22	D	Z	ePKP	19 15 20		136°	
			N	ePP	18 06			
			F	in coda of number 373.				
373	22	L	Z	iPKP	19 30 05	c	136°	very strong.
			ZNE	iPP	32 48	d/S		0 = 19h 10m 42s.
			F	in coda of number 374.				Epic:37½S,73W (USCGS)
								Mag: 7 3/4 (Berk).
	22	D	Z	ePKP	19 30 04			strong.
			Z	(iPP)	19 32 20	c		
			NE	eM	19 34			
			NE	eL	19 52			
			F		22 00			
374	22	L	Z	iPKP	19 30 37			very strong, can not read.
			F		23 00			Epic:37½S,73W (USCGS)
								Mag: 8 1/4-8½ (Pas).
								8½ (Berk).
375	22	L	Z	e	23 55 52			
			F		00 02			
	22	D	Z	i	23 55 17	c		faint.
			F		00 00			
376	23	L	Z	i	00 39 33	c		Epic:38½S,75W(USCGS).
			F		00 43			
377	23	D	NE	e	03 09 13			faint.
			N	e	17 37			
			F		03 25			Epic:43S,75½W(USCGS).
378	23	L	Z	ePg	04 33 39			small shock.
			NE	eSg	34 13			
			F		04 38			0 = 04h 32m 45s.
379	23	L	Z	i	05 32 57	d		

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	R e m a r k s
380	24	L	Z	eP	06 34 08	c		
			ZN	eS	38 12			
				F	06 42			0 = 06h 29m 16s.
381	24	D	NE	e	14 50 49			Epic:43S,75½W(USCGS).
				F in coda of number 382.				
382	24	D	NE	eP	14 57 21		65°.1	0 = 14h 46m 36s.
			NE	eS	15 06 04			Epic:44½S,167½E(USCGS)
				F	15 44			Mag: 6 3/4 - 7 (Pas).
								6 1/4-6½ (Berk).
	24	L	Z	iP	14 57 10	d	63°.7	strong.
			ZN	iPcP	46	d/S		
			ZN	iPP	59 32			
			Z	iPPP	15 01 02	d		
			ZN	eS	15 05 44			
			ZE	ePS	06 02			
			ZE	eScS	07 00			
				F	15 45			
383	24	L	Z	iP	23 38 32	d	65°	
			ZN	(eS)	47 14			
				F	23 49			0 = 23h 27m 48s.
384	25	L	Z	iP	02 48 19	c	23°.1	
			N	(eS)	52 27			
				F in coda of number 385.				0 = 02h 43m 11s.
385	25	L	Z	iPg	02 49 27	d	1.5	small shock.
			ZNE	eSg	47			
				F	02 54			0 = 02h 48m 55s.
386	25	L	Z	iP	08 53 48	c	10.9	no clear S-wave.
			ZN	(eS)	55 52			
				F	09 15			0 = 08h 51m 08s.
	25	D	Z	i	08 55 57	d		faint.
			NE	e	55 00			
				F	09 26			
387	25	L	ZN	iP	13 43 33	d/S	23°.5	strong.
			Z	iPP	44 05	c		
			Z	iPPP	13	d		
			N	ePcP	47 21			
			ZE	iS	45	d		
			N	iS	53	S		
			N	eSS	48 31			0 = 13h 38m 21s.
			N	eSeS	54 43			Epic:1N,129½E (USCGS).
				F	13 58			
	25	D	Z	eP	13 43 42		24°	
			NE	eS	47 57			
				F	14 01			
388	25	L	Z	iP	14 32 48	d/S	23°.5	0 = 14h 27m 36s.
			Z	iPP	33 20	d		
			ZNE	eS	37 00			
				F	14 47			Epic:1 N,128½E.
	25	D	E	i	14 33 08			
				e	37 18			
				F	14 46			faint.
389	25	L	Z	iPKP	15 09 42	d	127°	
			Z	iPP	11 48	c		

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	R e m a r k s
390	25	L	Z	eP	17 32 29			
			ZN	(eS)	35 49			
				F	17 38			
391	25	L	Z	iPg	13 43 10	c	2°.2	small shock.
			N	eSg	40			
				F	13 50			0 = 13h 42m 24s.
	26	D	NE	(eP)	13 43 06			faint.
				F	13 49			
392	26	L	Z	iPg	15 46 20	c	2°.2	small shock
			N	eSg	50			
				F	15 52			0 = 15h 45m 34s.
	26	D	NE	e	15 47 12			
				F	15 52			
393	26	L	Z	eP	20 12 17		16°.6	
			ZN	(eS)	15 21			
				F	20 18			0 = 20h 08m 21s.
394	26	L	Z	i	23 48 48	c		faint.
			N	i	49 02			
				F	23 52			
395	27	L	Z	iP	00 35 38	c	58°.6	0 = 00h 25m 37s.
			N	(eS)	43 42			
				F	00 45			Epic:22S,172E(USCGS).
396	27	L	Z	iP	01 38 35	c		
				F	01 43			
397	27	L	Z	iPg	13 00 56	c		strong local shock.
				F	13 07			S-wave cannot read.
	27	D	Z	iPg	13 01 00		1°.4	
			E	eSg	01 19			
				F	13 06			0 = 13h 00m 30s.
398	29	L	Z	eP	07 58 53			
			Z	e	08 01 27			
				F	08 06			
399	29	L	Z	eP	20 01 15			
			N	e	05 55			
				F	20 11			Epic: 0,121½E(USCGS).
400	29	L	Z	eP	21 43 07			
			Z	e	45 17			
				F	21 48			
401	31	L	Z	eP	11 22 22		32°	
			N	eS	27 34			
				F	11 35			0 = 11h 15m 52s.
402	31	L	Z	eP	13 19 43	c	32°	0 = 13h 13m 13s.
			ZN	eS	24 55			
				F	13 28			Epic:7½S,156E(USCGS).
403	31	L	ZNE	iPg	21 01 56	d/N/E	4°.6	strong.
			NE	iS	02 56			
				F	21 13			0 = 21h 00m 22s.
	31	D	Z	iP	21 01 58	d	5°.5	strong.
			NE	iS	03 02	S/W		

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
JUNE 1960.								
404	2	L	ZE	iP	01 56 46	d	20°.8	0 = 0ih 42m 0[illegible]s.
			NE	e	59 54			
			N	iS	02 00 34	N		Epic:Near south coast of Mindano(P.I) (USCGS).
				F	02 07			
	2	D	NE	e	01 56 45			very faint.
				F	02 03			
405	2	L	Z	e	06 17 11			faint.
			Z	e	19 11			Epic:Southern Chile (USCGS).
				F	06 24			Mag: 6 3/4 (Pas).
406	2	L	Z	iP	07 30 45	d		faint.
				F	07 37			h about 150 km, Epic:19S,175W(USCGS).
407	2	L	Z	iP	07 55 18	d	44°	rather strong.
			Z	iPP	57 02			0 = 07h 47m 07s.
			ZN	eS	08 01 50			Epic:5½S,151½E(USCGS).
				F	08 10			Mag:6½ - 6 3/4 (Pas).
	2	D	NE	e	07 56 09			very faint.
				F	08 10			
408	2	L	Z	ePg	10 53 40		1°.8	
			NE	eSg	54 04			
				F	10 55			0 = 10h 53m 03s.
409	2	L	Z	iP	19 09 42	d	73°.4	0 = 18h 59m 04s.
			Z	e	11 48			
			Z	eSP	12 30			
			Z	eS	18 28			
			Z	(eSeS)	19 24			h about 550 km.
				F	19 22			Epic:20½S,178½W(USCGS)
410	3	L	Z	eP	07 46 21	d	43°.5	faint.
			Z	eS	52 51			0 = 07h 38m 14s.
				F	07 53			Epic:5½S,151E(USCGS).
411	3	L	Z	iP	13 25 04	d	72°.2	0 = 13h 14m 38s.
			Z	ipP	27 09	d		h about 600 km.
			Z	eS	33 39			Mag: 6 (Pas).
				F	in coda of no. 9			Epic:17½S,179½W(USCGS)
412	3	L	Z	iP	13 34 06	d	72°.2	strong.
			Z	ipP	36 11	c		
			Z	isP	37 10	d		0 = 13h 23m 37s.
			ZN	iS	42 41	d/N		h about 600 km.
			ZN	i	43 43			Mag: 6 (Pas).
				F	13 49			Epic:17½S,179W(USCGS)
413	3	L	Z	i	13 53 50	c		faint.
				F	14 04			
414	3	L	Z	iP	16 27 46	d		faint.
				F	16 36			h about 100 km. Epic:41½N,141½E(USCGS)
415	4	L	Z	$iPKP_1$	02 46 45	d		faint.
			Z	i	47 17	c		Mag: 6 - 6 1/4 (Pas).
				F	02 49			Epic:20N,95½W(USCGS).

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
416	4	L	Z	i	03 26 33	c		faint.
			Z	e	28 41			
			Z	e	30 33			
				F	03 35			
417	4	L	Z	iPg	18 09 24	d	2°.4	strong local shock.
			NE	eSg	56			
				F	18 15			0 = 18h 08m 34s.
	4	D	NE	e	18 09 45			faint.
				F	18 14			
418	6	L	Z	ePg	03 55 53		1°.6	small locak shock.
			NE	eSg	56 14			
				F	03 59			0 = 03h 55m 20s.
419	6	L	Z	iPKP$_1$	06 14 55	d	130°	strong.
			Z	iPP	17 11	d		
			Z	ePKS	18 30			0 = 05h 55m 44s.
				eL	07 00			Mag: 6 3/4 (Pas).
				F	08 00			6 3/4 - 7 (Berk).
								Epic:45½S,73½W(USCGS).
	6	D	ZNE	e(PKP)	06 16 01			
			NE	ePP	17 37	d		
				eL	06 49			
				F	08 00			
420	7	L	Z	iP	05 28 18	d	10°.6	rather strong.
			NE	iS	30 30	N		0 = 05h 25m 10s.
				F	05 33			Epic:17S,98E(USCGS).
421	7	L	Z	e	11 22 07			
			Z	i	24 23	d		
				F	11 29			
422	8	L	Z	iP	05 15 01	d	19°.5	faint.
			NE	eS	18 35			0 = 05h 10m 30s.
				F	05 22			Epic:3½S,127E (USCGS).
423	8	M	Z	e	22 32 17			very faint.
				F	22 37			
424	9	L	Z	ePg	02 18 14		2°.0	
			NE	eSg	40			
				F	02 21			0 = 02h 17m 33s.
425	9	L	Z	iP	05 05 58	d	4°.6	strong.
			NE	iS	06 58	S		0 = 05h 04m 42s.
			ZN	(eScS)	18 38			h about 350 km.
				F	05 19			Epic:9S,112½E (USCGS).
	9	D	Z	eP	05 06 02		4.7	in min break.
			NE	eS	07 02			
				F	05 16			
426	9	L	Z	iP	11 34 10		60°.5	0 = 11h 23m 56s.
			NE	iS	42 25			Mag: 5 3/4 - 6 (Berk).
				F	11 47			Epic:18S,169E (USCGS).
	9	D	Z	eP	11 34 10		61°.3	
			NE	eS	42 30			
				F	11 53			
427	9	M	Z	iPg	22 55 53	c	1°.7	strong S-wave unread-
			NE	(eSg)	56 16			able.

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
428	10	M	Z	eP	00 39 26			faint.
				F	00 47			
429	10	M	Z	e	12 05 55			faint traces.
				F	12 10			
430	10	L	Z	e	11 23 35			faint.
				F	11 26			
431	10	L	Z	iP	12 04 20	c	23°.6	faint.
			NE	eS	08 32			0 = 11h 59m 07s.
				F	12 10			Epic:6½S,131E (USCGS).
432	10	M	Z	ePKP	14 49 31	d		faint.
			Z	e	50 31			
				F	14 52			Epic:37S,75W (USCGS).
433	10	M	Z	e	16 41 17			faint.
				F	16 44			
434	10	L	Z	ePg	18 25 44	d	1°.2	small
			Z	(eSg)	26 00			
				F	18 27			0 = 18h 25m 20s.
435	10	L	Z	iP	21 24 00	c		faint.
				F	21 29			Mag: 5½ (Berk)
								Epic:15½S,174W (USCGS)
436	11	L	Z	iPKP$_1$	00 54 15	d	168°	0 = 00h 34m 44s.
			Z	iPKP$_1$	55 27	d		h about 300 km
			Z	ePKS^2	57 47	e		Epic:21S,164½W (USCGS)
				F	01 04			
437	11	L	Z	iP	15 22 20	d	43°.6	strong.
			ZN	ePcP	24 06	S/d		0 = 15H 14m 12s.
			NE	eS	28 50	S		Mag: 6 (Berk).
			NE	eScS	32 20			Epic:9S,152⅓E (USCGS).
				F	15 53			
	11	M	Z	eP	15 23 44		54°.3	strong
			ZE	ePcP	24 47			
			ZE	ePP	25 47			
			E	eS	31 21			
				F	15 55			
	11	D	Z	iP	15 22 27	d	45°	strong.
			NE	eS	29 06			
			E	eScS	32 22			
				F	16 16			
438	11	L	ZN	iP	16 45 56	d/N	44°.5	strong.
			ZNE	ePP	47 40			
			Z	iPPP	48 18	d		
			ZNE	eS	51 32			0 = 16h 37m 41s.
				F	17 26			Epic:9½S,152½E (USCGS)
	11	D	Z	eP	16 46 04		45°.1	rather strong.
			NE	(eS)	52 44			
			NE	eScS	56 02			
				F	17 21			
	11	M	Z	eP	16 47 22		55°.1	rsther strong.
			NE	eS	55 04			
				F	17 20			
439	11	L	Z	eP	17 15 5[illegible]	d	43°.6	faint.

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	R e m a r k s
440	12	L	Z	eP	04 07 04		70°4	0 = 03h 56m 48s.
			N	esP	10 08			
			NE	ePPP	11 41			h about 600 km.
			NE	iS	15 29	N		Epic:South of Fiji Islands (USCGS).
441	12	L	Z	iP	05 01 42		61°3	Faint.
			N	(eS)	10 02			
				F	05 12			0 = 04h 51m 22s.
442	12	L	Z	iPKP	07 39 43	c		faint.
			Z	e	41 06			
			N	e	42 25			Mag: 6½ (Berk).
				F	07 46			Epic:36S,98W (USCGS).
	12	M	Z	iPKP	07 39 38	d		very faint.
			Z	i	40 16	c		
				F	07 44			
443	12	L	Z	iPg	10 45 29	d	1°5	small local shock.
			NE	iSg	49	S		
				F	10 50			0 = 10h 44m 57s.
	12	L	Z	i	18 20 03	c	faint.	
			Z	i	25			
				F	18 23			
445	13	L	Z	e	05 23 02			faint traces.
				F	05 27			
446	14	L	Z	iP	23 46 30	d		faint.
				F	23 52			Epic:9S,152½E (USCGS).
447	15	M	Z	iP	15 46 34	c		faint.
			Z	i	48	c		
				F	15 52			Epic:41N,142½E (USCGS)
448	15	L	Z	iPg	22 21 25	d	2°4	local shock.
			NE	eSg	57			
				F	22 25			0 = 22h 20m 35s.
449	15	L	Z	e	22 30 07			
				F	22 32			
450	15	L	Z	iP	23 33 18	c	26°1	strong.
			Z	iPP	56	d		
			Z	iPPP	34 14			
			NE	eS	37 48			
			ZN	eSS	38 54	N		0 = 23h 27m 41s.
				F	23 51			Epic:½S,133E (USCGS).
	15	D	Z	iP	23 33 22	d	26°9	rather strong.
			NE	ePP	34 08			
			NE	eS	37 58			
			NE	eScS	44 36			
				F	23 54			
	15	M	Z	iP	23 34 34	c		faint,no clear S-wave.
			ZN	e	39 30			
				F	23 45			
451	16	L	Z	iP	03 12 16	d		faint.
				F	03 16			
452	16	L	Z	iP	06 43 13	c	24°2	0 = 06h 37m 54s.
			N	eS	47 30			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	Remarks
452	16	M	Z	iP	06 43 26	c		faint.
				F	06 48			
453	16	L	Z	iP	10 27 34	d	39°	0 = 10h 20m 04s.
			NE	eS	33 34			
				F	10 37			Epic:2S,69E (USCGS).
	16	D	Z	eP	10 27 33		38°	faint.
			NE	(eS)	33 25			
				F	10 46			
454	16	M	Z	ePg	11 42 15		1°.5	strong local shock.
			N	eSg	33			
			ZE	e	43 01			
				F	11 49			0 = 11h 41m 43s.
	16	L	Z	eP	11 42 00			faint.
				F	11 48			
455	16	L	Z	i	20 28 44	c		faint.
				F	20 30			
456	17	L	Z	iPg	01 27 13	d	1°.2	small.
			NE	eSg	29			
				F	01 31			0 = 01h 26m 48s.
457	17	L	Z	iP	16 48 28	d		faint.
			Z	ePP	52 04			Mag: 6 - 6 1/4 (Pas).
				F	16 53			Epic:52½N,173½W(USCGS)
458	17	L	Z	ePg	23 04 08	d		strong, S-wave unreadable.
				F	23 12			
	17	D	Z	e	23 04 37			faint.
				iSg	34 26			
				F	23 21			no clear P-wave.
459	18	L	Z	iP	03 27 19	c		very faint.
				F	03 29			
460	18	L	Z	iPg	20 19 26	d	2°.2	
			N	eSg	54			
				F	20 21			0 = 20h 18m 41s.
461	18	L	Z	eP	23 33 50		4°.3	strong.
			NE	eS	34 42			0 = 23h 32m 43s.
				F 23 44				Epic:Near South coast of Sumatra.
	18	D	Z	iP	23 33 41	c	3°.7	
			NE	iS	34 26			
				F	23 43			
	18	M	ZE	e	23 35 19			no clear P/S-wave
			N	e	36 43			
			E	e	38 31			
				F	23 43			
462	19	L	Z	e	09 53 03			
				F	09 55			Epic:10S,161E (USCGS).
463	19	L	Z	e	14 42 47			
				F	14 44			
464	19	L	Z	iP	17 26 11	c		faint.
				F	17 30			Epic:38N,142½E (USCGS)

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	Δ	R e m a r k s
464	19	M	Z	eP	17 26 10			Faint.
				F	17 29			
465	20	L	Z	$iPKP_1$	02 20 25	d	138°	rather strong.
			Z	i	55	d		
			Z	iPP	23 24	c		0 = 02h 01m 08s.
				F	02 26			Epic:38S,73½W (USCGS).
	20	D	Z	ePKP	02 20 35			faint.
				e	23 00			
				F	03 36			
	20	M	Z	iPKP	02 20 42	c		rather strong.
				F	02 26			
466	20	L	Z	e	03 26 16			faint.
				F	03 30			
467	20	L	Z	iP	11 50 57	d		rather strong.
				F	11 59			
	20	D	E	(eP)	11 51 18			faint.
				F	12 09			
	20	M	E	e	11 54 41			faint.
				F	11 58			
468	20	L	Z	iP	12 10 03			faint.
				F	12 17			Epic:3S,129E (USCGS).
469	20	L	Z	iPKP	13 18 58	c	133°	strong.
			Z	iPP	21 23			0 = 12h 59m 40s.
			N	i	22 18	N		Mag: 6 3/4 (Pas).
				F in coda of number 470.				7 (Berk)
								Epic:39½S,73W (USCGS).
	20	D	Z	e	13 19 10			faint.
			N	e	21 58			
				F	13 45			
	20	M	Z	iPKP	13 19 17	d		rather strong
			E	e	28 59			
				F	13 30			
470	20	L	Z	i	13 26 48	c		faint.
			Z	e	31 18			
				F	13 36			
471	23	L	Z	iP	12 12 27	c	18°.2	0 = 12h 08m 12s.
			NE	eS	15 49			
				F	12 19			Epic:7S,127½E (USCGS).
472	25	L	Z	iP	14 53 23	d	73°.6	rather strong.
			Z	iPcP	33	c		0 = 14h 41m 46s.
			Z	iPP	57 11	c		Mag: 6½ - 6 3/4 (Pas).
			N	eS	15 02 53			5 3/4 (Berk).
				F	15 05			Epic:30½S,177W (USCGS)
473	25	L	Z	$iPKP_1$	19 55 02	d	(150°)	h about 100 km
			Z	(esPKP)	30	d		
				F	20 03			Epic:28S,68W (USCGS).
474	26	L	Z	iP	16 56 21	c		faint
				F	16 58			Epic:26S,71E (USCGS).
475	26	M	Z	e	22 57 32			faint traces.
			E	e	17			

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No.	Date	Stat.	Comp.	Phase	G. M. T.	Dir.	△	Remarks
476	28	L	Z	ePg	02 05 11		1°.3	small shock.
			N	eSg	29			
				F	02 08			O = 02h 04m 42s.
477	28	M	Z	e	03 23 42			faint.
				F	03 28			
	28	L	Z	iP	03 21 31	d		faint.
				F	03 27			
478	30	L	Z	i	23 59 56	c		
			Z	i	01 02 02	c		
				F	01 09			
479	30	M	Z	iP	00 01 47	c		
			E	i	36 51	E		
				F	00 41			

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ROYAL OBSERVATORY 17 OCT 1961 EDINBURGH

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Department of Air Communication

Meteorological and Geophysical Institute

DJAKARTA

Seismological Bulletin
July, August 1960.

Geographical position of the stations.

DJAKARTA : Lat. 06°11'S. Long. 106°50'E. h = about 6m.
Foundation : River Quarternary.
Seismograph: Wiechert Z = 1300 Kg.
Wiechert N & E = 1000 Kg.

LEMBANG : Lat. 06°50'S. Long. 107°37'E. h = about 1295 m.
Foundation : Quarternary volcanics.
Seismograph: Sprengnether Z (T=1.4 sec)
Sprengnether N (T=3.4 sec)
Sprengnether E (T=17.7 sec).

MEDAN : Lat. 03°33'N. Long. 98°41'E. h = about 32 m.
Foundation : Marine sediments.
Seismograph: Sprengnether Z (T=1.5 sec)
Sprengnether N (T=1.5 sec)
Sprengnether E (T=1.5 sec).

Constants of the Wiechert Seismograph

DJAK.	NS-Component					EW-Component					Z-Component				
1960	T	r	E	V	e	T	r	E	V	e	T	r	E	V	e
JULY	7.6	0.33	2.13	215	1.40	7.6	0.48	2.50	215	1.25	4.0	0.27	2.22	300	1.30
AUG.	7.6	0.50	2.17	215	1.28	7.6	0.26	2.94	215	1.25	4.0	0.41	1.98	300	2.15

Abbreviations used in the bulletin

D = Djakarta station
L = Lembang station
M = Medan station
c = a compressive first movement
d = a di latational first movement.

Meteorological and Geophysical
Institute,

Ir. Soeroto Mangoensoemarto
(Director).

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
JULY 1960.								
480	1	M	ZN	eP	00 01 48	c		very faint.
			E	e	51			
			E	e	02 54	E		
				F	00 04			
481	1	L	Z	faint traces between 16h 38m and 16h 44m.				
482	2	M	Z	eP	10 28 13			in min break.
			N	e	29 11			
				F	10 41			
483	2	D	E	e	12 18 58			very faint. Epic:56S,27W (USCGS).
				F	12 26			
484	3	L	Z	iP	20 33 26	d	85°.2	rather strong.
			Z	iPP	36 56	c		0=20h 20m 46s.
			NE	eSKS	43 51			Epic:50½N,177W
			Z	e	45 56			(USCGS)
				F	20 49			Mag:6 1/2(Berk)
	3	M	Z	iP	20 33 17	c	83°.6	
			E	i	35 05	E		
			N	e	40 28			
			NE	eSKS	43 38			
				F	20 46			
485	6	L	N	e	04 28 02			faint.
				F	04 33			
486	6	M	Z	i	05 23 15	c		Epic:36½N,70½E
				F	in coda of no.487			(USCGS). h = about 200 km.
487	6	L	Z	ePg	05 29 38		2°.9	local shock.
			NE	eSg	30 16			
				F	05 43			0=05h 28m 38s.
	6	M	Z	eP	05 30 10			faint.
			N	e	51			
				F	05 39			
488	6	L	Z	eP	14 47 41	d		very faint. Epic:3N, 126½E (USCGS); h=about 200 km.
				F	14 52			
489	6	L	Z	iP	23 21 23	d	18°.0	0=23h 17m 10s.
			NE	eS	24 42			Epic:5S,125E
				F	23 30			(USCGS).
	6	D	Z	iP	23 21 29	d	19°.3	
			NE	eS	25 01			
			NE	e	30 37			
				F	23 45			
	6	M	Z	e	23 23 12	c		faint.
				F	23 35			
490	7	L	Z	eP	07 16 50			faint.
			N	e	17 20			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	Δ	Remarks
JULY 1960.								
491	7	L	Z	eP	15 34 39			faint.
				F	15 39			
492	8	L	Z	iP	12 59 21	d	42°.0	faint.
			Z	i	41	c		
			NE	eS	13 05 41			
				F	13 08			0=12h 51m 26s.
493	8	L	Z	iP	14 49 36	c	21°.4	0=14h 44m 45s.
			ZN	eS	53 30			Epic:7S, 129E
				F	14 58			(USCGS).
	8	D	NE	e	14 56 45			very faint.
				F	15 04			
494	9	M	Z	eP	08 18 51			no clear S-wave
				F	08 27			
495	9	M	ZN	e	09 28 38			no clear P/S-wave.
				F	09 37			
496	10	D	Z	eP	00 08 13	c	11°.0	0=00h 05m 31s.
			NE	eS	10 17			Epic:0,98E(USCGS)
			N	i	45	S		P-wave unreadable
			E	iM	13 17			strong
				F	00 58			
	10	L	Z	eP	00 08 13		10°.5	strong
				(eS)	10 13			
				F	00 23			
	10	M	Z	iP	00 06 17	c		strong, S-wave un-
				F	00 25			readable.
497	10	M	Z	e	04 40 07			faint.
				F	04 44			
498	10	L	Z	iPg	06 31 50	d	1°.1	small shock.
			NE	eSg	32 04			
				F	06 36			0=06h 31m 28s.
499	10	M	Z	(eP)	11 06 07	c		faint;no clear
				F	11 10			P/S-wave.
500	10	M	Z	e	16 08 56	d		faint.
				F	16 13			
501	10	L	Z	eP	23 15 59			rather strong
				F	23 21			
	10	D	NE	e	23 15 05			very faint.
				F	23 23			
502	11	M	Z	iPg	11 27 39	d	1°.7	small shock
			NE	(iSg)	28 02	E		
				F	11 32			0=11h 27m 03s.
503	11	L	Z	iP	12 07 18	c	79°.2	0=11h 55m 10s.
			E	eS	17 16			Epic:16S,172W
				F	12 20			(USCGS). Mag:
								6(Pas),6 1/4-6½
								(Berk).

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
JULY 1960.								
	11	D	Z	iP	12 07 23	c	80°6	
			NE	eS	17 30			
			E	e	18 27			
				F	12 23			
	11	M	Z	iP	12 08 19	c		faint.
			E	e	16 43			
				F	12 19			
504	11	L	Z	iP	16 30 33	d		faint.
			Z	e	37 51			
				F	16 38			
505	11	L	Z	ePg	22 31 13		1°5	0=22h 30m 42s.
			NE	(eSg)	33			small shock.
				F	22 35			
506	13	D	NE	e	08 20 43			faint.
				F	08 36			
507	14	L	Z	ePg	03 53 43			small shock.
				F	03 56			
508	14	L	Z	iP	10 32 08	c	23°3	rather strong.
			NE	iS	36 18			0=10h 26m 58s.
				F	10 47			Epic:5N, 127½E(USCGS)
	14	D	Z	eP	10 32 09		23°4	
			E	ePP	32 38			
			NE	eS	36 20			
				F	10 55			
	14	M	Z	iP	10 33 01			
				F	(no electric current)			
509	14	L	Z	iP	15 25 16	c		faint.
				F	15 28			Epic:1N, 120½E(USCGS)
	14	M	Z	e	15 26 37	d		very faint.
				F	15 30			
510	14	M	Z	e	18 49 49	c		faint.
				F	18 51			Epic:7N, 38½E(USCGS).
511	14	L	Z	iP	20 22 42	c		faint.
				F	20 27			Epic: 0, 123E(USCGS).
	14	M	Z	eP	20 24 08	c		very faint.
				F	20 27			
512	15	M	Z	eP	05 11 41			faint.
			N	e	15 39			
				F	05 19			Epic:12S,45½E(USCGS).
513	15	D	NE	e	06 28 09			faint traces.
				F	06 50			
514	16	M	Z	e	05 36 09	c		faint.
				F	05 38			
515	16	L	Z	ePg	05 56 21			small shock.
				F	05 59			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
JULY 1960.								
516	16	L	Z	iPg	16 21 44	d	3°.0	0=16h 20m 43s.
			NE	eSg	22 23			
				F	16 26			small shock.
517	16	L	Z	iP	17 25 31	c		faint.
				F	17 29			Epic:21½N,143E(USCGS) h=about 300 km.
	16	M	Z	eP	17 25 49			
				F	17 28			
518	16	M	Z	e	19 42 02			faint.
				F	19 46			
519	18	M	Z	ePg	00 55 30	c	4°.8	0=00h 53m 52s.
			NE	eSg	56 32			Epic:Nicobar Islands (USCGS).
				F	in change of record			strong.
520	18	M	Z	ePg	01 16 46		4°.8	strong.
			NE	eSg	17 48			0=01h 15m 08s.
				F	01 27			Epic:Microbar Islands (USCGS).
521	18	M	Z	e	01 43 48			no clear P/S-wave.
			E	e	44 12			
			E	e	45 44			
			Z	e	46 00			
				F	01 58			
	18	L	E	e	01 51 23			faint.
				F	01 59			
522	18	M	Z	e	06 07 47			faint.
			E	e	09 35			
				F	06 16			
523	18	M	Z	e	09 33 49			faint.
				F	09 43			
524	19	M	Z	iP	22 20 58	d		faint.
				F	22 25			
525	20	L	Z	ePg	00 44 19			small shock.
				F	00 47			
526	20	M	Z	e	06 06 06			faint.
			N	e	06 21			
				F	06 09			
527	20	M	Z	eP	09 41 36	c		very faint.
				F	09 48			Epic:49N,157½E(USCGS).
528	20	L	Z	eP	20 59 42			faint.
				F	21 06			
529	20	L	Z	iP	21 09 29	d/S		faint.
				F	21 19			
	20	M	Z	eP	21 10 45		76°.9	0=20h 59m 16s.
			NE	eS	20 12			Epic:20½S,169E(USCGS) h=about 200 km.
				F	21 26			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
JULY 1960.								
530	23	L	Z	eP	00 07 28		20°.0	0=00h 02m 51s.
			Z	e	10 58			
			N	(eS)	11 08			
				F in change of record.				
531	25	L	Z	e	03 53 03			faint.
			N	e	04 02 51			Epic:55N,163E(USCGS)
				F	04 06			Mag:6½(Pas)
								5 3/4-6(Berk).
	25	M	Z	e	03 52 36			
			N	i	53 15			
				F	04 05			
	25	D	traces between 04h and 05h.					no time marks.
532	25	L	Z	iP	11 23 28	c	73°.0	0=11h 12m 07s.
			ZNE	iS	32 46			Epic:54N,163E(USCGS)
				F	11 27			h=about 100 km.
								Mag:6 3/4 (Berk)
								7 (Pas).
533	25	L	Z	i	19 59 14	c		
				F	20 03			
534	25	L	Z	e	21 44 30			faint.
				F	21 52			Epic:3S, 148E(USCGS).
535	27	M	Z	i	00 35 33	c		
			Z	i	35 52	c		
			N	i	35 55	E		
				F	00 39			
536	27	L	Z	e	08 49 45			faint.
			NE	e	50 38			
				F	08 52			
537	27	L	Z	eP	08 57 18		3°.2	0=08h 56m 29s.
			NE	eS	55			Epic:5.6S,103,6E
			N	eScS	09 11 42			(USCGS). h=about 93 km½
				F	09 13			
	27	M	Z	eP	08 59 08	c	11°.7	rather strong.
			NE	eS	09 01 17			
				F	09 16			
	27	D	Z	iP	08 57 08	c	2°.7	
			N	iS	57 41			
				F	09 10			
538	27	L	Z	iPKP	10 26 02	c		Epic:44,7S;75,1W.
			Z	e	28 02			h=about 25 km.
				F	10 34			Mag.:6 1/4-6½(Pas)
								6 (Berk).
	27	D	N	e	10 26 13			faint.
				F	10 30			
539	28	M	Z	e	14 12 02			faint.
				F	14 16			
540	29	M	Z	eP	00 05 23	c		faint.
			NE	e	06 11			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
JULY 1960.								
541	29	L	Z	eP	00 34 31	c	61°.0	rather strong.
			NE	eS	42 53			0=00h 24m 07s.
				F	00 46			Mag:6½-6 3/4 (Pas)
								6 1/4-6½(Berk).
	29	D	Z	iP	00 34 42	c	62°.3	rather strong.
			NE	iS	43 08	S		
				F	00 58			
542	29	M	Z	e	00 53 51			
				F	00 59			
543	29	M	Z	e	03 20 26			
			N	e	43			
				F	03 27			
544	29	L	Z	iP	17 41 21	d	56°.1	rather strong.
			NE	eS	49 05			0=17h 31m 39.5s.
			NE	eScS	51 04			Epic:40,1N;142,3E(USCGS)
				F	18 03			h=about 50 km.
								Mag:6 3/4(Pas)
								6 3/4-7 (Berk).
	29	M	Z	iP	17 40 59	d	53°.0	strong.
			Z	ePcP	42 07			
			N	iS	48 23	S		
			N	eScS	50 42			
				F	17 59			
	29	D	Z	eP	17 41 18	d	56°.3	
			NE	eS	49 04	W		
				F	18 01			
545	30	L	Z	iP	14 45 56	c		faint.
				F	14 48			
546	31	L	Z	eP	03 03 42		44°.0	0=02h 55m 46s.
			N	ePcP	05 32			Epic:5,6S;150E(USCGS)
			N	iS	10 11	S		h=about 25 km.
			NE	eScS	13 42			Mag:6 3/4(Pas)
				F	03 38			6 - 6 1/4 (Berk).
	31	D	Z	eP	03 03 41		43°.0	rather strong.
			ZN	ePcP	05 33			
			NE	eS	10 05			
			E	eL	03 20 09			
				F	03 43			
	31	M	Z	e	03 05 06			faint.
			NE	e	12 54			
				F	03 20			
547	31	L	Z	eP	07 12 29			Epic:6S;150E(USCGS).
				F	07 15			h=about 93 km.
								Mag: 6 (Pas).
548	31	L	Z	iP	18 53 56	d		Epic:2,8S;148,2E(USCGS)
				F	18 57			h=about 13 km.
549	31	L	Z	eP	19 42 56			
				F	19 47			
550	31	L	Z	ePg	21 52 54			faint.
				F	21 56			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
AUGUST 1960.								
551	1	M	Z	iPg	15 17 32	d	1°.8	0=15h 16m 55s.
			ZN	eSg	56			Epic:3,7N;98E (USCGS).
				F	15 25			
552	1	L	Z	iP	20 51 30	c		small.
			Z	(iS)	52 20			
				F	20 55			
553	2	L	ZE	iP	05 17 43	W	63°.3	rather strong.
			N	eP	44	N		0=05h 07m 22s.
			N	ePP	20 05			Epic:22,2S;171,5E
			N	eS	26 06			(USCGS). h=about 108 km.
			N	eScS	27 23			Mag:6 1/4 (Berk)
				F	05 35			6½ (Pas).
	2	D	ZE	iP	05 17 50	E	65°.1	
			NE	iS	26 24	N		
			E	ePS	27 10			
				F	05 47			
	2	M	Z	iP	05 18 58	c		faint.
			E	iP	19 01	E		
			NE	e	28 11			
				F	05 29			
554	2	L	Z	i	14 02 06	c		
				F	14 05			
555	3	M	Z	e	21 54 23			faint.
			E	e	58 05			
				F	22 06			
556	4	L	Z	eP	07 47 16	d	84°.0	0=07h 34m 54s.
			N	eS	57 30			Epic:51.4N;179.1E
			N	i	59 18			(USCGS). h=about 83 km.
				F	08 07			Mag:6 - 6 1/4(Pas).
	4	D	Z	eP	07 47 11		83°.4	in min. break.
			NE	(eSKS)	57 19			
			NE	e	39			
				F	08 12			
	4	M	Z	iP	07 47 05		83°.0	faint.
			NE	eS	57 16			
				F	07 58			
557	4	M	Z	iPg	10 45 47	c	1°.6	0=10h 45m 14s.
			NE	ePg	48			
			NE	eSg	46 08			
				F	10 50			
558	5	L	Z	i	16 29 17	d		faint.
				F	16 37			
559	8	D	Z	iP	01 32 58	c		faint.
			N	i	34 18	N		
			E	e(SKS)	43 54			h=about 38 km.
				F	01 55			Epic:55,5N;166,3E
								(USCGS).
	8	L	Z	e	01 33 11	d		
			NE	e	53			
				F	01 38			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
AUGUST 1960.								
560	8	L	Z	ePg	06 45 19		1°3	small
			NE	eSg	37			
				F	06 48			0=06h 44m 50s.
561	8	L	Z	iPg	15 11 26	d		S-wave unreadable
				F	15 17			
	8	D	Z	iP	15 11 30	c		faint.
			E	i	50	W		
				F	15 19			
562	9	L	Z	iP	16 57 58	d		very faint.
				F	17 07			Epic:24,5S;177,1W.
								Mag: 6-6 1/4(Pas).
								6 1/4 (Berk).
563	9	L	Z	eP	23 46 45		59°5	0=23h 36m 50s.
			N	eS	54 45			Epic:11,5S;166,3E
				F	23 58			(USCGS). h=about
								80 km.
564	10	L	Z	eP	08 00 17			
				F	08 07			
565	10	L	Z	iP	10 27 51	d		faint.
				F	10 34			Epic:9,4S;119,0E(USCGS)
								h=about 31 km.
	10	M	Z	e	10 30 05			very faint.
				F	10 34			
566	11	L	Z	iP	02 56 55	d/N	17°2	0=02h 52m 57s.
			N	iPP	57 15	N		Epic:0,0;121,6E(USCGS)
			NE	eS	03 00 04	N		h=about 46 km.
			Z	ePcP	01 40			
				F	03 16			
	11	D	Z	iP	02 57 00	d		S-wave unreadable.
			Z	i	42			
			N	i	03 01 29	S		
				F	03 16			
	11	M	Z	iP	02 58 23	d	23°5	moderate.
			NE	iP	58 26	S/W		
			WE	ePP	59 05			
			NE	eS	03 02 29			
				F	03 12			
567	11	L	Z	iP	04 55 48	d	26°0	0=04h 50m 21s.
			ZN	ePP	56 33			Epic:Mindanao P.I.
			NE	iS	05 00 12			h=about 79 km.
				F	05 12			
	11	D	Z	iP	04 55 50	d	25°0	
			NE	iS	05 00 04			
				F	05 13			
	11	M	Z	iP	04 56 21	c	28°0	moderate.
			ZNE	ePP	57 14			
			Z	iPPP	28	c		
			NE	eS	05 00 57			
				F	05 09			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
AUGUST 1960.								
568	11	M	Z	e	06 29 34			faint.
				F	06 36			
569	12	L	Z	iP	13 21 48	c	57°.0	0=13h 12m 11s.
			ZNE	eS	29 32			Epic:Near East coast
				F	13 33			of Honshu Japan
								(USCGS).
								h=about 95 km.
570	12	L	Z	iP	23 27 17	c		
				F	23 33			
571	13	L	Z	iP	07 20 45	c		
				F	07 26			Epic:40,6N;142E(USCGS)
								h=about 60 km.
	13	M	Z	iP	07 20 26	d		no clear S-wave
			Z	e	44			
			Z	e	21 32			
				F	07 29			
572	13	L	Z	iPKP	14 34 11	c	143°.0	0=14h 14m 58s.
			Z	i	36 41	c		Epic:39,7S;74,8W
			ZNE	iPP	37 35	S/d		(USCGS);h=about
				F	14 53			61 km.
	13	D	Z	ePKP	14 34 13			faint.
			NE	(ePP)	36 42			
			NE	e	39 42			
				F	14 59			
	13	M	Z	iPKP	14 34 27	c		faint.
			NE	e	38 15			
				F	14 56			
573	14	M	Z	i	09 20 36	N/E		faint.
				F	09 25			
574	14	M	Z	e	13 28 32			faint.
			Z	i	44	c		
				F	13 35			
575	14	L	Z	iPKP	23 05 26	c		faint.
			Z	i	30	d		Epic:23,5S;66,4W
			Z	i	06 20	c		(USCGS). h=about
				F	23 09			245 km.
576	15	M	Z	e	07 06 14			faint.
				F	07 11			
577	15	M	Z	iPg	07 57 20	c	2°.5	strong.
			NE	eSg	53			
				F	08 03			0=07h 52m 28s.
578	15	L	Z	iP	14 41 25	d	41°.3	0=14h 33m 41s.
			Z	i	42 35	d		Epic:13,5S;67E(USCGS)
			Z	i	43 47	d		h=about 25 km.
			NE	eS	47 37			
				F	14 48			
	15	M	Z	iP	14 40 46	d		very faint.
				F	14 50			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
AUGUST 1960.								
579	16	L	Z	iPg	20 25 55	d	1°3	0=20h 25m 26s.
			NE	eSg	26 13			
				F	20 21			
580	16	L	Z	eP	22 32 37		22°0	0=22h 27m 50s.
			NE	eS	36 29			Epic:7,6S;128,8E (USCGS). h=about 63 km.
581	17	L	Z	iPg	02 18 48	c	2°8	0=02h 17m 51s.
			NE	(eSg)	19 24			
				F	02 24			
582	17	L	Z	eP	05 20 44			faint.
				e(S)	21 20			
				F	05 30			
583	19	M	Z	eP	03 13 35	d		Epic:25,9N;96,4E (USCGS). h=about 27 km.
				F	03 17			
584	19	L	Z	iP	08 15 50	c		very faint.
				F	08 18			
	19	M	Z	eP	08 16 08			
				F	08 18			
585	19	L	Z	iP	12 49 32	c		no clear S-wave.
			Z	i	56	c		Epic:27,0N;140,1E
			Z	i	51 10	c		(USCGS). h=about
			Z	i	12 51 52			283 km.
			Z	i	52 07			
				F	12 54			
586	20	M	Z	iP	22 27 55	d	24°0	0=22h 22m 42s.
			NE	iP	57	S/E		Epic:0,5N;122E
			Z	iPP	28 15	d		(USCGS). h=about
			Z	iPPP	39	c		59 km.
			NE	iS	32 07	N		
			NE	iScS	38 54	S/E		
				F	22 46			
	20	D	Z	eP	22 26 38	d	17°2	0=22h 22m 40s.
			NE	(ePP)	53			
			NE	eS	29 46			
			E	(eScS)	31 18			
				F	22 48			
	20	L	Z	iP	22 26 39	d/S	(20°0)	
			ZN	ePP	56			
			NE	(eS)	30 13			
			ZNE	eScS	38 23			
				F	22 44			
587	21	L	Z	i	00 24 58	d		faint.
			Z	i	25 48	d		Epic:4,3S;143,3E
			Z	i	27 25	d		(USCGS). h=about
				F	00 29			39 km.
	21	M	Z	e	00 26 21	c		
			N	e	28 24	S		
				F	00 33			

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
AUGUST 1960.								
588	21	L	Z	iP	01 07 18	c	55°.0	0=00h 57m 43s.
			ZN	eS	14 56			
				F	01 16			
589	21	L	ZNE	iP	12 54 09	d/N/E	21°.8	0=12h 49m 39s.
			E	iPPP	40	E		Epic:4,9N;125,1E
			NE	eS	57 51			(USCGS).h=about
			NE	eSS	58 31			211 km.
				F	13 05			
	21	D	ZNE	eP	12 54 10	d	21°.2	moderate.
			E	eS	57 48			
			NE	ePcP	58 07			
			NE	eScS	13 05 04			
				F	13 13			
	21	M	Z	iP	12 55 02	d	27°.0	rather strong.
			ZNE	iPP	56 00	d/W		
			NE	iPPP	56 22	S/E		
			NE	eS	59 21			
				F	13 10			
590	21	L	Z	e	17 10 29			faint.
				F	17 16			Epic:7,2N;127,8E
								(USCGS).
591	22	L	ZN	ePg	07 54 20		1°.7	0=07h 52m 45s.
			N	eSg	42			
				F	07 57			
592	22	M	Z	e(P)	14 29 37			
			Z	e	31 58			
				F	14 33			
593	23	L	Z	eP	22 56 31	c	75°.0	0=22h 44m 55s.
			Z	iPcP	40	c		Epic:14,5S;176,4W
			Z	i	57	d		(USCGS).h=about 56 km.
			Z	ipP	57 03	d		
			N	e	23 01 07			
			N	eS	06 04			
				F	23 10			
	23	D	E	e	22 56 25			faint.
			NE	e	23 05 55			
				F	23 30			
594	24	L	Z	e(P)	06 00 55			Epic:19S;174,1W(USCGS).
				F	06 04			h=about 42 km.
595	24	M	Z	eP	07 58 03			faint.
			Z	e	32			
				F	08 03			
596	24	L	Z	iP	12 14 07			faint.
				F	12 17			
597	24	M	Z	iP	16 10 01	d		faint.
			E	i	55	E		
			Z	i	12 33	c		
				F	16 16			
598	24	M	Z	eP	19 32 34	c	23°.0	0=19h 27m 43s.
			Z	ipP	33 04			Epic:24,4N;95E(USCGS).
			NE	iS	36 28	N/E		h=about 145 km.

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No.	Date	Stat.	Component	Phase	G. M. T.	Dir.	△	Remarks
AUGUST 1960.								
599	25	M	Z	e	06 13 22			
			Z	i	40	d		
				F	06 17			
600	26	L	Z	iP	11 51 17	c	16°.0	0=11h 47m 30s.
			N	i	52 11	N		Epic:11,1S;123,7E
			ZN	eS	54 11			(USCGS).h=about 79 km.
				F	11 58			
601	26	L	Z	iP	18 37 03	c	56°.7	0=18h 27m 15s.
			Z	i	41	c		Epic:13,5S;165,9E
			NE	eS	44 55			(USCGS). h=about
				F	18 46			56 km.
	26	M	Z	iP	18 38 20	c		
				F	18 41			
602	26	L	Z	ePg	23 01 53	c		
			N	eSg	02 15			
				F	23 04			
603	27	L	Z	ePg	03 56 09			
				F	04 01			
604	27	L	Z	iP	18 27 02	d		faint.
				F	18 31			Epic:49,9N;153,7E
								(USCGS).h=about 220 km.
605	27	L	Z	iPg	22 13 23	d		
			NE	eSg	43			
				F	22 16			
606	28	L	Z	iPg	09 12 22	S		rather strong.
				F	in coda of no.607.			
607	28	L	Z	ePg	09 16 36			
				F	09 19			
608	28	L	Z	iPg	14 28 06	d		small shock.
				F	14 31			
609	28	L	Z	iP	19 16 37	d		
				F	19 23			
610	31	L	Z	eP	10 03 21			
				F	10 06			
611	31	L	Z	iP	17 27 12	c	25°.1	0=17h 21m 49s.
			N	eS	31 32			Epic:13,7N;120,1E
				F	17 38			(USCGS). h=about
								22 km.
	31	M	Z	iP	17 27 08	c		
			NE	i	10	E		
			Z	i	28 10	d		
				F	17 32			

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ROYAL OBSERVATORY 17 OCT 1961 EDINBURGH

International Seismological Centre From the ISC collection scanned by SISMOS

Ministry of Air Communication

Meteorological and Geophysical Department

DJAKARTA

Seismological Bulletin

September, October 1960.

Geographical position of the stations.

Djakarta : Lat.: 06°11'S. Long.:106°50'E. h=about 8 m.
Foundation : River Quarternary.
Seismograph : Wiechert Z = 1300 Kg.
Wiechert N & E = 1000 Kg.

Lembang : Lat.: 06°50'S. Long.:107°37'E. h=about 1295 m.
Foundation : Quarternary volcanics.
Seismograph : Sprengnether Z (T= 1.4 sec.)
Sprengnether N (T= 3.4 sec.)
Sprengnether E (T=17.7 sec.)

Medan : Lat. 03°33'N. Long.:98°41'E. h=about 32 m.
Foundation : Marine Sediments.
Seismograph : Sprengnether Z (T= 1.5 sec.)
Sprengnether N (T= 1.5 sec.)
Sprengnether E (T= 1.5 sec.)

Constants of the Wiechert Seismograph.

DJAK.	NS-Component					EW-Component					Z-Component				
1960	T	r	E	V	e	T	r	E	V	e	T	r	E	V	e
SEPT	7.6	0.36	2.09	218	1.34	7.6	0.36	2.73	215	1.59	4.0	0.29	2.13	-	1.25
OKT	7.6	0.46	1.93	215	1.17	7.6	0.41	2.70	215	1.28	4.0	0.32	2.13	-	1.21

Abbreviations used in the bulletin

D = Djakarta station.
L = Lembang station.
M = Medan station.
c = a compressive first movement.
d = a dilatational first movement.

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	Δ	Remarks
612	1	L	ZN	eP	09 38 22		61°.0	faint.
			N	eS	46 34			0=09h 28m 16s
				F	09 58			Epic:16,8S;167,6E
								(USCGS). h=about
			Z-Comp. unreadable.					63 km.
								Mag: 6(Pas).
	1	D	Z	eP	09 38 23		61°.0	faint.
			E	eS	46 35			
				F	09 59			
	1	M	NE	e(P)	09 39 43			faint.
				e	41 13			
				F	09 55			
613	1	L	N	eP	10 45 06		60°.0	0=10h 35m 00s.
			N	eS	53 15			Epic:16,5S;167,6E
				F	10 59			(USCGS);h=about
								27 km.
			Z-Comp. unreadable.					Mag:6 (Pas).
	1	D	Z	eP	10 45 09		61°.1	faint.
			E	e(S)	53 25			
				F	11 03			
	1	M	NE	e(P)	10 46 29			very faint.
				F	10 53			
614	1	L	~~Z~~N	eP	11 24 52		58°.5	0=11h 14m 57s.
			NE	e(S)	32 52			Epic:16,6S;167,4E
				F	11 36			(USCGS);h=about
								35 km.
	1	M	N	e	11 26 28			
			N	e	28 16			
			N	e	29 34			
				F	11 33			
615	1	L	Z	iP	18 52 40	c	72°,9	0=11h 41m 13s.
			N	eS	19 01 56			Epic:15,8S;179,2E
				F	19 04			(USCGS);h=about
								33 km.
	1	M	N	e	18 53 37			faint.
				F	18 59			
616	1	L	Z	iP	20 13 24	d	73°.0	0=20h 02m 14s.
			Z	iPcP	46	d		Epic:16,1S;179,6E
			Z	ipP	14 10			(USCGS);h=about
			NE	eS	22 34			183 km.
				F	20 29			
	1	M	Z	e(P)	20 14 34			very faint.
			N	e	14 37			
				F	20 23			
617	2	L	Z	e(Pg)	07 46 40		1°.8	small.
			N	eSg	47 04			
				F	07 49			0=07h 46m 03s.
618	2	L	Z	e(P)	10 56 29			faint.
			Z	i	11 02 09	c		
			Z	i	35	c		Epic:15,2S:167,4E

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
	SEPTEMBER 1960.							
619	2	L	Z	eP	13 53 17		37°0	0=13h 46m 11s.
			ZN	eS	59 00			Epic:28,7N;98,3E(USCGS).
			ZN	eL	14 05 47			h=about 48 km.
				F	14 21			
	2	D	NE	e(P)	13 53 12		36°5	in min. break.
			E	eS	58 52			
			N	e	14 05 24			
			N	e	06 44			
				F	14 24			
	2	M	Z	eP	13 51 33		24°9	strong
			Z	ePP	52 13	c		
			Z	ePPP	24			
			Z	e(PcP)	55 11			
			NE	eS	55 51			
			N	e(PcS)	59 21			
			E	i(PcS)	27	W		
				F	14 20			
620	2	L	Z	eP	15 10 15	c		
				F	15 13			
621	2	M	Z	iP	22 15 34	d		rather strong.
			NE	eSKS	25 50			
			NE	ePPS	27 16			
				F	22 40			
622	2	L	Z	iPg	22 22 12	c	0°9	small shock.
			E	eSg	24			
				F	22 24			0=22h 21m 53s.
623	3	L	Z	eP	12 49 24		47°7	in min. break, strong.
			NE	eS	55 44	N/W		0=12h 41m 35s.
			NE	iScS	58 40	S/E		Epic=6,1S;154,5E(USCGS)
				F	13 08			h=about 457 km.
								Mag=6½ - 6 3/4 (Pas).
	3	M	Z	eP	12 50 37		57°3	rather strong.
			Z	iPcP	51 24	c		
			Z	epP	52 13			
			Z	ePP	49			
			Z	ePPP	54 31			
			NE	eS	57 56			
			N	isS	13 00 38			
				F	13 08			
	3	D.	N	e	12 51 12			faint, no clear P/S-wave.
			NE	e	55 48			
				F	13 18			
624	3	L	Z	iP	23 56 55	c	64°0	0=23h 46m 23s.
			N	e(S)	00 05 27			Epic:44,6N;149,1E(USCGS)
				F	00 16			h=about 27 km.
								Mag=6 1/4(Pas).
625	4	L	Z	eP	10 38 28	c		faint.
				i	52	N		
				F	10 45			
626	4	L	Z	iP	13 04 18	d		Epic:5,8N;125,1E(USCGS).
				F	13 09			h=about 204 km

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
SEPTEMBER 1960.								
627	4	M	Z	ePg	13 19 49		1°4	
			N	eSg	20 08			
				F	13 22			0=13h 19m 19s.
628	4	M	Z	e(P)	18 53 06			faint.
				F	19 01			
	4	L	Z	e	18 57 44			
			N	e	58 29			
				F	19 01			
629	4	L	Z	iPg	22 58 42		1°3	
			N	eSg	59			
				F	23 01			0=22h 58m 15s.
630	5	L	Z	ePg	17 47 11			very faint.
				F	17 48			
631	5	L	Z	iPg	20 24 46	c		small.
				F	20 26			
632	6	L	Z	ePg	13 00 13		1°0	
			E	e(Sg)	26			
				F	13 03			0=12h 59m 53s.
633	6	L	Z	iP	14 13 13	c	60°0	0=14h 03m 07s.
			N	eS	21 23			Epic:20,4S;169,4E
				F	14 26			(USCGS);h=about 35 km.
								Mag=6 1/4-6½(Pas).
	6	M	Z	eP	14 14 30			faint.
				F	14 17			
634	6	L	Z	iP	15 34 27	c		
			Z	i	45	d		
			Z	i	35 42	c		
				F	15 13			
635	7	L	Z	iP	03 54 19	c	10°2	0=03h 51m 49s.
			NE	(eS)	56 19			Epic=0;125E(USCGS)
				F	04 08			h=about 68 km.
	7	M	Z	eP	03 55 38	c	16°5	
			N	iS	58 38	N		
				F	04 01			
	7	D	Z	iP	03 54 22	c	11°0	faint.
			NE	eS	56 24			
			N	e	58 22			
			N	e	04 01 06			
				F	04 10			
636	7	L	Z	iPg	21 14 18	d	2°8	small shock.
			ZN	eSg	55			
				F	21 17			0=21h 13m 20s.
637	8	M	Z	iP	10 13 29			faint.
				F	10 18			
638	8	L	NE	eP	11 12 42		22°5	0=11h 07m 44s.
			NE	eS	16 42			Epic:6,2N;126,2E(USCGS)
				F	11 30			h=47 km.

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
SEPTEMBER 1960.								
	8	D	Z	iP	11 12 45	c	24.°0	rather strong.
			NE	iPP	13 39	S/W		
			NE	iS	16 55			
			F		11 36			
639	8	L	Z	iP	17 07 09	d		faint.
			F		17 11			Epic=5,9;126,3E(USCGS) h=about 312 km.
640	9	L	Z	ePg	01 27 12		1.°3	
			NE	eSg	29			
			F		01 30			0=01h 26m 45s.
641	9	L	Z	iPg	21 01 30	c	2.°3	
			NE	eSg	02 01			
			F		21 06			0=21h 00m 41s.
	9	D	Z	ePg	21 01 24			faint.
			F		21 09			
642	10	L	Z	i	01 47 08	d		
			F		01 51			
643	10	L	Z	iPg	02 04 14	c	2°,3	rather strong.
			NE	iSg	44	W		
			F		02 14			0=02h 03m 25s.
	10	D	NE	ePg	02 04 08		1.°5	rather strong.
			NE	eSg	28			
			F		02 18			
644	10	L	ZN	iP	05 00 37	c/N		small shock.
			F		05 09			
	10	D	NE	i	05 01 16			faint.
			F		05 08			
645	10	L	ZNE	iP	10 48 32	d/N/E	18.°0	strong.
			E	ePP	49 24			
			NE	eS	50 26			
			NE	iPcP	52 40			
			NE	eScS	58 42			0=10h 44m 54s.
			F		11 10			Epic:4N;122,6E(USCGS) h=about 629 km.
	10	D	Z	iP	10 48 34	d	19.°0	strong.
			E	i	50 13	E		
			NE	iS	51 36	S/E		
			Z	i	52 46	c		
			N	i	52 56			
			NE	eScS	10 58 50			
			F		11 16			
646	10	L	Z	iP	14 13 58	d		Epic:11,2S;163,1E (USCGS);h=about 48 km.
			F		14 16			
647	10	L	Z	iPg	21 39 18	c	0.°6	
			NE	eSg	27			
			F		21 42			0=21h 39m 04s.
648	11	L	Z	e	00 02 13			faint.
			F		00 06			

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
SEPTEMBER 1960.								
649.	11	D	Z	ePg	01 06 54		1°.8	rather strong.
			NE	iSg	07 18	S/E		
				F	01 22			0=01h 06m 16s.
650	11	L	Z	iPg	01 23 50		1°.4	
			NE	eSg	24 08			
				F	01 26			0=01h 23m 20s.
651	12	L	Z	iP	12 24 41	c	39°.3	0=12h 17m 08s.
			ZN	iS	30 43			Epic:27.3N;128°.4E
				F	12 34			(USCGS);h=about 48 km.
	12	D	NE	e(P)	12 24 40		40°.0	
			E	eS	30 44			
				F	12 37			
	12	M	Z	eP	12 24 21		39°.0	
			NE	iP	24	N/E		
			N	ePP	25 56			
			NE	eS	30 14			
				F	12 34			
652	12	L	ZNE	iPg	14 46 48	d/S/W		
				F	14 57			
653	12	L	Z	iP	16 04 23	d	9°.8	0=16h 02m 06s.
			NE	iS	06 13			Epic:7S;117E(USCGS);
			ZNE	iScS	15 44	c/S/E		h=about 611 km.
				F	16 20			
	12	D	Z	iP	16 06 23	d	22°.5	
			N	e(S)	09 37			
			E	eS	09 48			
				F	16 16			
	12	M	ZN	e	16 09 27			faint;no clear P/S-wave.
			E	e	49			
			NE	iScS	16 16 21	S/W		
				F	16 20			
654	12	L	Z	iP	18 31 32	c	1°.6	small shock.
			NE	eSg	54			
				F	18 34			0=18h 31m 00s.
655	12	L	Z	iP	22 39 28	c		Epic:5,5S;130,5E(USCGS)
				F	22 42			h=about 57 km.
656	14	L	Z	iPg	02 34 06		1°.3	
			NE	eSg	24			
				F	02 37			0=02h 33m 38s.
657	14	L	Z	eP	03 59 26			small.
				F	04 02			
658	14	L	Z	eP	23 30 26			faint.
				F	23 34			Epic:20,9S;174,1W(USCGS)
								h=about 25 km.
659	15	M	N	e	07 55 41			faint.
			E	e	56 02			
				F	07 59			

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
SEPTEMBER 1960.								
660	15	L	Z	ePg	09 39 35		2°.1	
			NE	eSg	40 04			
				F	09 42			0=09h 38m 51s.
661	15	L	Z	iP	18 05 26	c	44°.5	0=17h 57m 47s.
			Z	epP	06 36			Epic:21,4N;142,9E(USCGS)
			Z	ePcP	07 02			h=about 361 km.
			NE	eS	11 34			
				F	18 14			
	15	M	Z	iP	18 05 41	c	47°.0	
			NE	eS	12 05			
				F	18 17			
662	16	M	Z	eP	08 22 15	d		rather strong.
			NE	e(S)	51			
				F	08 35			
663	16	D	N	e(P)	18 04 03			in minute break.
				F	18 11			faint.
664	16	L	Z	iPg	18 52 16	d	1°.1	small shock.
			NE	eSg	30			
				F	18 55			0=18h 51m 54s.
	16	D	Z	eP	18 52 16			small shock.
				F	18 56			
665	16	L	Z	ePg	23 22 55		2°.2	small shock.
			NE	eSg	23 25			
				F	23 26			0=23h 22m 08s.
666	16	L	Z	iPg	23 32 07	d	2°.1	small shock.
			NE	eSg	35			
				F	23 37			0=23h 31m 23s.
	16	D	ZN	ePg	23 32 24			faint.
				F	23 40			
667	17	L	Faint traces between 00h 34m and 00h 40m.					
668	17	L	Z	i	07 14 34	c		faint.
				F	07 16			
669	17	L	Z	eP	08 04 02			Epic=49,3N;155,4E(USCGS)
				F	08 12			h=about 35 km.
670	17	L	Z	eP	08 16 42			faint.
			N	e	26 50			
				F	08 30			
	17	D	Z	iP	08 16 41	c	69°.0	0=08h 05m 32s.
			N	i	19 45			Epic:49,9N;15,2E(USCGS)
			N	eS	25 45			h=about 28 km.
				F	08 39			Mag=6(Pas).
671	17	L	Z	eP	08 32 08	c		faint.
			Z	e	44 48			
				F	08 47			

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	Δ	Remarks
SEPTEMBER 1960.								
672	17	L	Z	iP	13 07 16	c		Epic:6,3S;154,4E(USCGS)
				F	13 12			h=about 134 km.
673	17	L	Z	eP	20 08 01	c		Epic=20,9S;174,5W(USCGS)
			Z	i	55	d		h=about 28 km.
				F	20 13			Mag=6(Pas).
674	18	L	Z	eP	08 18 30			faint.
				F	08 24			
675	18	L	Z	eP	09 45 14		22°0	0=09h 40m 28s.
			E	e	48 04			Epic:6,8S;129,2E(USCGS)
			N	eS	49 05			h=about 83 km.
			NE	iScS	56 17	S/E		rather strong.
				F	10 03			
	18	D	Z	eP	09 45 23		23°5	
			N	eS	49 25			
				F	10 03			
676	18	L	Z	e	11 07 07			faint.
				F	11 10			
677	19	L	ZNE	eP	03 45 03		26°3	0=03h 39m 35s.
			NE	eS	49 25			Epic=15,6N;120E(USCGS)
				F	in coda of no.67.			h=about 97 km;rather strong.
	19	D	ZNE	iP	03 45 04	c/S/E	27°0	
			Z	i	53	d		
			N	e	46 05			
			NE	eS	49 32	E		
				F	04 24			
	19	M	Z	eP	03 42 47			no clear S-wave.
			NE	e	47 12			
			NE	e	48 16			
				eL	03 57			
				F	in coda of no. 678.			
678	19	L	Z	eP	04 04 21			faint.
				F	04 22			Epic:15.5N;120E(USCGS)
								h=about 25 km.
	19	M	Z	eP	04 04 08			faint.
			E	e	11			
			E	e	28			
				F	04 20			
679	19	M	ZE	ePg	15 43 42		1°7	small shock.
			E	eSg	44 04			
			E	e	24			
				F	15 46			0=15h 43m 05s.
680	19	L	Z	iPKP	19 21 41	c		faint.
			Z	i	23 11	d		Epic=6,9N;77,5W(USCGS)
			Z	i	27 11	c		h=about 66 lm.
				F	19 41			Mag= 6 1/4 (Berk),(Pas).
681	20	L	Z	ePg	00 20 28		1°5	
			N	eSg	48			
				F	00 23			0=00h 19m 56s.

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
SEPTEMBER-1960.								
682	20	M	Z	ePg	07 26 43		0°9	
			NE	eSg	54	E		
			F		07 32			0=07h 26m 25s.
683	20	L	Z	iPg	22 28 13	c	1°3	local shock.
			NE	eSg	30			
			F		22 30			0=22h 27m 46s.
684	21	L	Z	iPg	04 57 33	d	2°4	
			NE	eSg	58 03			
			F		05 02			0=04h 56m 45s.
	21	D	Z	e(P)	04 57 29			faint.
			F		05 03			
685	21	L	Z	ePg	07 23 53		2°4	small shock.
			NE	eSg	24 23			
			F		07 27			0=07h 23m 16s.
686	21	L	Z	iP	15 59 36	d		
			N	i	16 00 26	N		
			F		16 05			
	21	D	ZN	e	15 59 37			faint.
			F		16 09			
687	21	L	Z	iP	16 15 10	d	37°0	0=16h 08m 13s.
			N	eS	20 40			Epic=26.5N;124,8E(USCGS)
			F		16 23			h=about 207 km.
688	22	M	Z	eP	05 49 25			faint.
			F		05 52			Epic=3,4S;29,1E(U.S.C.G.S)
								h=about 20 km.
689	22	L	N	eP	09 17 47		70°6	time correction doubtful.
			N	iS	26 57			
			F		09 34			
	22	M	Z	eP	09 16 49	d	71°5	0=09h 05m 30s.
			N	e	17 04			Epic=3,3S;29,3E(USCGS).
			Z	e	19 15			h=about 28 km.
			ZN	eS	26 04			Mag=6 1/4-6⅓(Pas).
			F		09 35			
	22	D	Z	eP	09 17 31		78°0	
			NE	eS	27 22			
			NE	e	36 06			
			F		10 10			
690	22	M	ZNE	iPg	23 44 52	c/N/E	1°5	strong.
			NE	iSg	45 12			
				i	20	c		
			F		23 52			0=23h 44m 22s.
691	23	L	Z	eP	23 14 24	c		faint.
			F		23 18			Epic:22,2S;174,8W(USCGS)
								h=about 39 km.
								Mag= 5 3/4 (Pas).
692	24	L	Z	iP	19 16 11	d		faint.
			F		19 20			
	24	D	Z	e(P)	19 16 07			faint.
			F		19 22			

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
SEPTEMBER 1960.								
693	26	L	Z	i	07 18 03	c		faint.
			Z	i	34	c		
			Z	i	22 12	d		
			F		07 24			
694	27	M	Z	e(PKP)	02 59 44			faint.
				F	03 05			Epic:44,6S;73,6W(USCGS).
								h=about 59 km.
695	27	M	Z	eP	06 42 40			faint.
			E	e	48			
				F	06 46			
696	27	M	Z	eP	09 54 20			faint.
			Z	e	09 58 38			
697	27	L	Z	eP	18 43 42			Epic=14,4N;145,8E(USCGS).
				F	18 46			h=about 109 km.
698	27	M	Z	iPg	22 55 25	d	1°8	small shock.
			ZE	eSg	49	W		
				F	22 58			0=22h 54m 49s.
699	29	L	Z	eP	11 26 33		45°0	strong.
			N	ePPP	29 49			0=11h 19m 00s.
			N	ePcP	30 06			Epic=18,9N;144,7E(USCGS)
			NE	iS	32 36	S/E		h=about 469 km.
			Z	iScS	35 35	c		Mag= 6 (Berk).
			N	iScS	35 35			6 1/4- 6½(Pas).
				F	11 48			
	29	D	ZN	iP	11 26 30	d	46°0	strong.
			NE	iS	32 39	N/E		
				F	11 54			
700	29	L	Z	iP	14 26 04	d		faint.
				F	14 29			
701	30	L	Z	ePg	01 54 54		2°7	faint, small shock.
			NE	eSg	55 29			
			NE	e	59			
				F	01 59			0=01h 54m 00s.
OCTOBER 1960.								
702	1	M	Z	e(P)	03 05 30		20°0	0=03h 01 00s.
			NE	eS	09 06			Epic:23.3N;94.6E(USCGS).
				F	03 14			h=about 67 km.
703	1	L	Z	iP	06 31 40	d		Epic:6.1N;124.5E(USCGS)
				F	06 40			h=about 544 km.
704	1	L	Z	e	16 23 50			faint.
			Z	e	27 14			Epic=52.2N;172.6W(USCGS)
			Z	e	16 30			h=about 41 km.
								Mag: 6 (Berk)
								6½(Pas).
	1	D	N	e	16 24 59			faint.
				F	16 36			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
705	2	L	Z	i	12 16 16	d		faint.
				F	12 19			
706	2	M	Z	e(P)	18 11 43			rather strong.
			ZNE	iP	50	c/S/W		Epic:18.6N;94.9E
			NE	eS	16 31			(USCGS).
				F	18 28			h=about 104 km.
	2	D	Z	iP	18 13 50			faint.
			NE	e	24 21			
				F	18 36			
	2	L	Z	eP	18 13 55			
			Z	i	14 59			
				F	18 29			
707	2	M	Z	i(P)	22 17 39	c		faint.
			Z	i	58	d		
			N	i	22 17 59			
				F	22 23			
708	3	L	Z	iP	00 31 43	c		faint.
				F	00 41			
709	3	M	Z	e	05 30 09			very faint.
				F	05 33			
710	3	L	Z	iP	17 18 35	c		faint.
				F	17 22			Epic:8,1S;152,8E(USCGS).
								h=about 100 km.
711	3	D	ZN	iPg	19 51 47	c	3°.2	strong.
			NE	iSg	52 29			0=19h 50m 43s.
				F	20 20			Epic:5.9S;103.0E(USCGS).
								h=about 51 km.
	3	M	Z	e(P)	19 53 33		12°.0	rather strong.
			NE	eS	55 45			
				F	20 09			
	3	L	Z	iP	19 51 58	c		strong, S-wave un-
				F	in coda of			readable.
					no.712.			
712	3	L	Z	iPg	20 10 37	c		faint.
				F	20 13			
713	4	M	Z	e	06 45 28			very faint.
				F	06 47			
714	4	L	Z	iPg	08 34 25	d	1°.1	
			NE	eSg	40			
				F	08 30			0=08h 34m 02s.
715	4	L	Z	eP	09 59 39	d		Epic:7.5S;155.3E(USCGS)
				e	10 03 07			h=about 134 km.
				F	10 14			faint.
	4	D	N	e	10 00 30			faint.
			E	i	02 27			
			E	e	05 02			
				F	10 15			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
	4	M	Z	e(P)	10 00 00			rather strong.
			E	iS	01 42	W		
			F		10 08			
716	4	L	Z	i	16 58 16	d		faint.
			F		17 02			
717	5	L	Z	eP	05 35 17			faint.
			F		05 37			
718	5	L	Z	eP	07 06 10			small.
			F		07 10			
719	5	L	Z	e	19 27 09			faint.
			F		19 33			
720	6	L	Z	iP	16 46 14	d	4°8	0=16h 45m 03s.
			Z	ePP	46 21	c		Epic=5.7S;103,0E.
			NE	eS	47 04			h=about 167 km.
			Z	e(PcP)	53 19	d		
			F		16 55			
	6	D	Z	ePg	16 46 04		3°1	faint.
			NE	eSg	44			
			F		17 02			
721	7	D	NE	eP	15 23 41		24°0	0=15h 18m 28s.
			NE	iPPP	24 25	S		Epic:6.8S;129.2E(USCGS).
			N	iS	27 53	S		h=about 96 km.
			F		16 30			rather strong.
	7	L.	Z	eP	15 23 34			galvanometer in disorder.
			E	eS	27 30			
			ZE	eScS	44 42			
			F		15 49			
	7	M	Z	iP	15 25 13	d	33°3	
			ZE	iPP	26 19	S/W		
			Z	iPPP	26 39	d		
			N	iS	30 25	S		
			E	i	35 33	W		
			N	iScS	15 35 36	N		
			F		15 54			
722	7	L	ZE	eP	17 33 02			
			E	e	22	E		
			F		17 36			
723	8	L	Z	ePKP	02 11 40			Epic:16.7N;97.9W(USCGS)
			F		02 14			h=about 74 km.
								Mag:4 3/4-5 (Pal).
724	8	L	ZN	iP	06 01 11	c/N	50°5	strong.
			NE	ePcP	02 19			0=05h 53m 01s.
			N	ipP	03 01	S		Epic:40.0N;129.7E(USCGS).
			N	iPP	03 19	S		h=about 608 km.
			E	i	07 04			Mag:6½-6 3/4(Pas).
			E	iS	07 41	E		6 1/4-6½(Berk).
			E	iSS	11 05	E		
			F		06 43			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
	8	D	Z	iP	06 01 09	c	51.0	strong.
			Z	ePcP	02 15	c		
			Z	ipP	03 00	c		
			Z	isP	04 08	d		
			Z	iPS	05 02	c		
			Z	i	06 01	d		
			NE	iS	07 41	S/E		
			NE	iScS	09 41	S/E		
			F in coda of no.725					
	8	M	Z	iP	06 00 39	c	46.0	strong.
			NE	iP	41	S/E		
			Z	iPcP	02 04	d		
			Z	ipP	02 27	c		
			Z	e(PP)	02 39			
			NE	iS	06 42	S/E		
			F		06 36			
725	8	L	Z	eP	06 21 49			
			NE	e(S)	22 35			
			F		06 39			
	8	D	Z	ePg	06 21 41	1.5		0=06h 21m 09s.
			NE	eSg	22 01			
			F		06 38			
726	8	L	Z	eP	11 29 08			faint.
			F		11 33			
727	8	L	Z	iP	17 45 05	c		Epic:35.9S;176.9E (USCGS);h=about 176 km.
			F		17 48			
728	8	L	Z	iP	20 44 44	d	23.0	0=20h 39m 47s.
			Z	ePPP	30			Epic:7.9N;92.9E(USCGS)
			ZNE	eS	48 44			h=about 84 km.
			NE	(eScS)	20 55 47			Rather strong.
			F		21 18			
	8	D	NE	eP	20 44 37		21.0	rather strong.
			NE	e	46 49			
			NE	eS	48 21			
			F		21 19			
	8	M	Z	iP	20 41 48	d	7.0	strong unreadable.
			NE	iP	50	S/W		
			Z	i	42 12	d		
			Z	i	42 50	d		
			NE	e(S)	43 06			
			F		21 04			
729	9	L	Z	eP	07 54 02		23.5	0=07h 48m 50s.
			N	e(S)	58 12			
			F		08 00			
730	9	L	Z	iP	09 10 14	c	57.1	rather strong.
			NE	epP	52			0=09h 00m 39s.
			NE	iS	17 55	S		Epic:40.8N;141.2E (USCGS);h=about 155 km.
			F		09 30			Mag=6 (Pal). 6 1/4(Pas).

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
	9	D	Z	eP	09 10 09	c	58°.0	rather strong.
			NE	eS	17 54	S/E		
			NE	e	21 02			
			NE	e	23 00			
				F	09 35			
731	10	L	Z	iP	21 46 10	c	4°.7	local shock.
			NE	eS	47 06			
				F	21 55			0=21h 44m 58s.
	10	D	Z	e	21 47 06			faint.
			NE	e	47 34			
			NE	e	48 16			
			Z	e	49 16			
				F	21 58			
732	11	M	Z	iP	09 46 17	d		faint.
				F	09 50			
733	11	L	Z	iP	18 34 17	d		faint.
			Z	iPP	35 53	d		Epic=16.1S;67.1E
				F	18 37			(USCGS);h=about
								100 km.
734	13	M	Z	iPg	02 27 20	d		strong.
			E	iSg	28 10	E		
				F	02 37			
735	13	M	Z	e	12 39 00			faint.
			NE	e	39 26			
				F	12 47			
736	13	M	Z	iP	15 03 59	d	71°.3	0=14h 52m 35s.
			E	eS	13 15			Epic=54.8N;161.2E
			N	eS	13 18			(USCGS);h=about 35 km.
				F	15 24			Mag=6 3/4(Pas)
								6 1/4-6½(Berk).
	13	D	NE	eP	15 04 18		76°.4	
			NE	eS	14 00	N		
			N	e	15 32			
				F	15 30			
737	14	D	Z	eP	09 52 48			faint.
			N	e(S)	53 20			
				F	09 59			
738	14	D	NE	eP	12 17 24			faint.
			NE	e(S)	18 08			
				F	12 41			
739	14	M	Z	eP	15 34 37		28°.4	0=15h 28m 43s.
			E	e	39 07			Epic:4.8N;125.5E(USCGS)
			E	e(S)	15 45			h=about 36 km.
	14	D	N	e	15 33 53			faint.
				F	15 45			

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No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
740	14	M	Z	ePKP	18 08 04	c		Epic=37.9S;74.7W (USCGS);h=about 25 km.
			Z	e	16			Mag=5 1/4-5½(Pal).
				F	18 13			
741	14	M	Z	eP	19 52 56		3°.5	faint.
			N	i(S)	53 38	S		
			E	i	59			0=19h 51m 59s.
				F	19 59			
742	14	M	Z	iP	21 31 56	d		rather strong, S-wave unreadable. Epic=
			E	i	32 37	E		51.7N;172.1W(USCGS)
			Z	i	34 27	d		Mag=6½(Pas)(Pal)(Berk).
			E	e	42 48			h=about 50 km.
				F	22 04			
	14	D	Z	e(P)	21 32 10			
			NE	e	43 25			
				F	21 59			
743	15	L	Z	e	06 15 46			faint.
				F	06 18			
744	15	L	Z	e	22 57 21			faint.
				F	23 02			
745	16	L	Z	i	12 40 02	c		faint.
			Z	i	06	c		
			Z	i	31	d		
				F	12 43			
746	17	L	Z	i	16 05 41	c		faint.
			Z	e	11 05			Epic=4.8N;78.4W
			Z	e	14 27			(USCGS).
				F	16 17			
747	18	L	Z	e	00 35 24			faint.
				F	00 38			Epic=52.5N;170.2W (USCGS).
	18	D	NE	e	00 35 49			faint.
				F	00 58			
748	19	L	Z	e	21 13 06			faint.
				F	21 18			
749	19	M	Z	eP	21 43 48			very faint.
				F	21 50			
750	20	L	Z	iP	11 15 39	d	55°.0	rather strong.
			Z	ePcP	16 39	c		0=11h 06m 04s.
			Z	iPP	17 39	c		
			N	eS	23 19	S		
			N	eScS	25 17	S		
				F	11 30			
	20	D	E	e	11 15 47			faint.
			N	e	20 56			
				F	11 40			
	20	M	Z	eP	11 16 54			faint.
				F	11 26			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	Δ	Remarks
OCTOBER 1960.								
751	20	M	Z	e	11 45 28	c		faint.
				F	11 49			
752	21	M	Z	iP	02 01 32	c	8.0°	0=01h 59m 32s.
			NE	iP	34	N/E		
			NE	eS	03 04			
				F	02 14			
753	21	L	Z	e(P)	06 29 57	c		faint.
				F	06 37			Epic=6.9S;127.6E (USCGS);h=about 134 km.
754	21	M	NE	e	06 54 47			faint.
				F	06 59			
755	21	M	E	e	16 05 10			faint.
			N	e	16 05 45			
				F	16 14			
756	21	L	Z	ePg	20 36 19			small.
				F	20 37			
757	22	L	Z	eP	08 31 13		53.0°	0=08h 22m 04s.
			N	ePcP	32 17			Epic=103.3S;161.2E (USCGS);h=about 100 km.
			N	i	32 59	N		Mag=6 (Pal)
			M	iPPP	34 19	N		6 1/4-6½(Berk)
			N	i	59	N		6 3/4-7(Pas).
			NE	iS	35 33	N		
			N	iPS	38 59	N		
			N	i	40 13	N		
			N	iScS	40 53	N		
				F	08 50			
	22	D	Z	iP	08 31 17	d	53.5°	faint.
			Z	ipP	31 42	c		
			Z	i	32 56	c		
			Z	i	33 52	c		
			NE	eS	38 40			
				F	08 59			
	22	M	E	eP	08 32 29		62.1°	rather strong.
			N	e(P)	37			
			NE	eS	40 45			
				F	08 57			
758	23	M	E	e(P)	02 51 19			faint.
			E	e	52 37			
				F	02 59			
759	24	L	Z	iP	05 21 53	c		faint.
			Z	i	22 21	d		Epic:15S;167.4E(USCGS) h=about 145 km.
				F	05 28			
760	24	M	Z	ePg	16 42 47		2.4°	faint.
			ZNE	iSg	43 20	d/E		
				F	16 48			0=16h 41m 59s.
761	24	L	Z	iP	17 17 01	d		faint.
				F	17 26			
762	25	M	NE	e	21 58 09			faint.
				F	22 02			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	Δ	Remarks
OCTOBER 1960.								
763	26	L	Z	iP	17 22 09	d		faint.
				F	17 26			
	26	D	N	e	17 22 23			faint.
				F	17 30			
764	26	L	Z	iP	19 56 16	d		faint.
				F	19 59			
765	27	L	Z	iPg	14 47 44	c	2°.5	local shock.
			NE	eSg	48 07			0=14h 47m 02s.
				F	14 58			Epic=6.2S;104E(USCGS)
								h=168 km.
	27	D	E	eP	14 47 22		3°.2	
			NE	eS	48 02			
				F	14 59			faint.
766	27	L	Z	iPg	18 16 27		4°.1	local shock.
			NE	eSg	17 21			
				F	18 24			0=18h 15m 02s.
	27	D	Z	eP	18 16 22			faint.
				F	18 24			
767	27	L	ZNE	iP	20 53 13	c/S/W		local shock, unread-
				F	20 59			able.
	27	D	NE	e	20 53 50			faint.
				F	21 02			
768	27	L	Z	iP	22 39 20	d .		faint.
			Z	i	44	d		
			Z	i	42 10	c		
				F	22 50			
769	28	L	Z	e(Pg)	03 25 30		1°.5	small shock.
			NE	eSg	50			
				F	03 28			0=03h 24m 58s.
770	28	M	Z	eP	11 18 22			faint.
			Z	i	35	c		
				F	11 23			
771	28	L	Z	iP	13 29 33	d	71°.6	strong.
			Z	i	44	c		0=13h 18m 18s.
			Z	ipP	59	d		Epic=52N;157.4E
			Z	ePP	32 15			(USCGS);h=about
			ZNE	iS	38 43	c/E		96 km.
			E	eSKS	39 31	E		
				F	14 01			
	28	D	Z	iP	13 29 31	d	73°.0	strong.
			Z	ipP	29 59	d		
			Z	e	31 23			
			Z	i	55	d		
			NE	iS	38 49	S/E		
				F	13 58			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
	28	M	Z	iP	13 29 11	d	69°5	
			Z	ipP	36			
			NE	iS	38 10	N/E		
			NE	esS	53			
			F		13 49			
772	28	M	Z	iP	13 57 27	d		faint.
			F		14 03			
773	28	L	Z	iP	22 38 33	d		Epic:34.4N;141.1E (USCGS);h=about 96 km.
			F		22 45			
	28	M	NE	e	22 38 15			faint.
			F		22 49			
774	29	M	Z	ePg	00 31 08	d	2°7	rather strong.
			NE	iPg	10	N/W		
			E	iSg	43	W		
			NE	i	59	E		
			F		00 39			0=00h 30m 12s.
775	30	M	Z	ePg	01 26 59	d	2.5°	local shock.
			Z	i	27 19	c		
			E	iSg	32	W		
			F		01 36			0=01h 26m 07s.
776	30	M	Z	eP	01 57 11			faint.
			NE	i	14	d		
			F		02 03			
777	30	M	Z	ePg	09 26 44		3°4	rather strong.
			E	iSg	27 29			
			F		09 34			0=09h 25m 34s.
	30	L	N	Faint traces between 09h 13m and 09h 25m.				
778	30	L	Z	eP	12 34 24	d		
			F		12 44			
	30	D	N	e	12 33 28			faint.
			F		12 43			
	30	M	Z	eP	12 34 38			faint.
			F		12 37			
779	30	L	Z	iP	15 55 25	d	21°0	rather strong.
			Z	iPP	48	d		
			E	eS	59 15			
			F		16 21			0=15h 50m 38s.
	30	D	NE	eP	15 55 28		21°7	
			NE	eS	59 24			
			F		16 13			
800	30	L	Z	iP	21 51 31	d		
			Z	i	55 01	d		
			N	i(ScS)	22 02 33	S		
			F		22 03			
	30	D	Z	eP	21 52 28			faint.
			Z	i	36	d		
			F		22 04			

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(G.M.T.)	Dir.	△	Remarks
OCTOBER 1960.								
	30	M	Z	eP	21 52 42	c		faint.
			Z	i	53 14	d		
			Z	i	40	d		
				F	21 59			
801	31	L	Z	iPg	17 21 48	d	1°.3	
			Ne	eSg	22 05			
				F	17 24			O=17h 21m 21s.

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International Seismological Centre From the ISC collection scanned by SISMOS

MINISTRY OF AIR COMMUNICATION

METEOROLOGICAL AND GEOPHYSICAL DEPARTMENT

D J A K A R T A

Seismological Bulletin

November, December 1960

Geographical position of the station :

DJAKARTA : Lat. 06°11'S ; Long. 106°50'E ; h = about 8 m
Foundation : River Quaternary
Seismograph : Wiechert Z = 1300 Kg
Wiechert N & E = 1000 Kg

LEMBANG : Lat. 06°50'S ; Long. 107°37'E ; h = about 1295 m
Foundation : Quaternary volcanics
Seismograph : Sprengnether Z-Comp. (T = 1.4 sec)
Sprengnether N-Comp. (T = 3.4 sec)
Sprengnether E-Comp. (T = 17.7 sec)

MEDAN : Lat. 03°33'N ; Long. 98°41'E ; h = about 32 m
Foundation : Marine Sediments
Seismograph : Sprengnether Z-Comp. (T = 1.5 sec)
Sprengnether N-Comp. (T = 1.5 sec)
Sprengnether E-Comp. (T = 1.5 sec)

Constants of the Wiechert Seismograph :

DJAK. 1960	T	r	F	V	e	T	r	E	V	e	T	r	E	V	e
Nov.	7.6	0.47	2.02	215	1.26	7.6	0.46	2.71	215	1.31	4.0	0.23	2.41	--	1.32
Dec.	7.6	0.41	2.37	215	1.28	7.6	0.34	2.78	215	1.28	4.0	0.23	2.36	--	1.29

Abbreviations used in the bulletin :

D = Djakarta station
L = Lembang station
M = Medan station
c = a compressive first movement
d = a dilatational first movement

Remarks :
From Nov. 19 till Dec. 31 the clock of the Sprengnether Seismograph of Medan was in disorder; no records were available during that period.-

Meteorological and Geophysical Department,

Ir. Suroto Mangunsumarto
(Director)

Address :

Meteorological and Geophysical Department,
Djalan Geredja-Inggris 3
DJAKARTA (INDONESIA)

Stc. No. 238/61/DMG.

International Seismological Centre From the ISC collection scanned by SISMOS

No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
NOVEMBER 1960.								
802	1	L	Z	ePKP	09 05 15			rather strong.
			NE	ePP	07 53			Epic:38.4S;74,4W
			NE	i	08 43	N		(USCGS); h about
				F	09 21			37 km.
								Mag=6½ - 6 3/4(Pal)
								6 3/4- 7 (Berk)
								7 1/4-7½(Pas).
	1	M	Z	ePKP	09 05 33	d		rather strong.
				i	09 03	c		
				F	09 22			
	1	D	NE	e	09 05 41			faint.
			N	e	08 49			
			NE	e	18 05			
			N	e	21 17			
				F	09 29			
803	1	L	Z	iP	10 25 16	c	5°.0	0=10h 23m 58s.
			NE	iS	26 16			Epic:5.5S;102.4E
				F	10 37			(USCGS). h about
								43 km. rather strong.
	1	M	Z	e	10 26 36			P-wave unreadable
			NE	e	28 33			
				F	10 38			
	1	D	NE	ePg	10 25 05		3°.6	
			NE	eSg	53			
				F	10 39			0=10h 23m 54s.
804	1	M	Z	iP	12 49 05	d		faint.
				F	12 54			
805	1	M	Z	e	15 37 37			faint.
				F	15 44			
806	1	M	Z	e	19 16 56			faint.
				F	19 20			Epic:50.1N;153.9E
								(USCGS);h about
								162 km.
807	2	L	Z	iPg	13 48 48	d		small.
				F	13 50			
808	2	M	Z	e	16 36 24			faint.
			NE	e	37 26			Epic:23.1N;93.8E
				F	16 50			(USCGS). h about
								126 km.
809	2	L	Z	iP	17 24 34	d	57°.0	0=17h 14m 49s.
			NZ	ipP	44	c		Epic:10.9S;164.9E
			Z	i	25 10	d		(USCGS). h about
			Z	i	26 30	c		25 km.
			N	iPP	38	S		
			NE	iS	32 24	S		
			N	iScS	34 25	S		
				F	17 49			
	2	D	Z	eP	17 24 38		58°.0	
			Z	e(PPP)	28 11			
			NE	eS	32 34			
			N	e(ScS)	34 21			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
NOVEMBRE 1960.								
	2	M	Z	eP	17 25 48		68°.5	faint.
			NE	eS	34 46			
				F	17 41 06			
810	2	L	Z	eP	17 54 06			faint.
				F	17 58			
	2	M	Z	eP	17 54 22			faint.
				F	18 02			
811	2	L	Z	iP	18 05 36	c		small.
				F	18 07			
812	2	L	Z	iP	18 18 07	c		small. Epic:44.8S;80.2E (USCGS); h about 23 km.
				F	18 24			
	2	M	Z	eP	18 18 50			faint.
				F	18 22			
813	3	L	Z	iP	02 54 45	d		
			N	e	55 08			
			N	e	03 00 31			
				F	03 06			
814	4	L	Z	iP	14 22 47	d	25°.7	Epic:1.1S;126.5E (USCGS); h=25 km.
			NE	(eS)	27 11			
				F	14 29			
815	5	L	Z	eP	05 29 14			faint.
				F	05 35			
816	5	L	Z	iP	20 34 00			Epic:39.2N;20.5E (USCGS);h=49 km. Mag=5(Pal).
				F	20 38			
817	6	D	Z	iP	04 49 52	d		faint. Epic:53N;159.8E(USCGS) h=32 km. Mag=5½-5 3/4 (Pal) 6-6 1/4 (Berk); 6 1/4 (Pas).
			Z	e	51 44			
			NE	e	59 08			
				F	05 05			
	6	L	Z	eP	04 49 54			faint.
				F	04 57			
	6	M	Z	iP	04 49 31	d		
			Z	i	46	c		
				F	04 57			
818	6	L	Z	eP	06 26 22	c	75°.0	O=06h 15m 00s. Epic:31S;177.7W(USCGS) h=184 km. Mag=5 3/4-6(Berk) 6½(Pas).
			N	e	28 02	S		
			N	eS	35 44			
				F	06 40			
819	6	L	Z	e	06 45 43			very faint.
				F	06 50			
820	6	M	Z	eP	20 09 51			faint.
			W	i	10 33			
				F	20 15			
821	6	L	Z	ePg	20 18 57		1°.3	small.

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
822	6	L	Z	eP	22 23 12			faint.
			Z	e	42			Epic:52.7N;168W(USCGS)
			Z	i	27 04	d		h about 42 km.
			F		22 30			Mag=5-5 1/4 (Berk) 5½ (Pal).
823	7	L	Z	ePg	06 17 21		1°.5	
			N	eSg	41			
			F		06 20			0=06h 16m 49s.
824	7	L	Z	iP	11 25 56	d	4°.5	faint.
			N	i(S)	26 46			
			F		11 31			0=11h 24m 48s.
825	7	L	Z	iP	13 21 26	c	45°.7	0=13h 23m 06s.
			Z	i	32	d		Epic=32.2N;131.5E
			NE	eS	38 06			(USCGS); h about
			F		13 42			25 km.
826	7	L	Z	e	16 36 21			Epic:10.7S;163.0E
			F		16 41			(USCGS); h=25 km.
								faint.
827	8	L	Z	ePKP	04 47 52	d		faint.
			Z	e	50 12			
			F		04 53			
828	8	L	Z	ePg	06 13 08		1°.6	
			NE	eSg	29			
			F		06 15			0=06h 12m 35s.
829	8	L	Z	iP	15 06 39	d		
			F		15 10			
830	9	L	ZN	ePKP	03 36 11			Epic:60.7S;24.8W(USCGS)
			N	e	37 17			h=37 km.
			ZN	e(SKS)	42 15			Mag=6 1/4-6½(Pal)
			F		03 51			faint.
	9	D	NE	e	03 42 37			faint.
			NE	e	43 45			
			F		03 54			
831	9	D	NE	eP	10 51 05		40°.9	0=10h 43m 32s.
			N	e	52 49			Epic=32.7N;103.4E(USCGS)
			NE	eS	57 08			rather strong.
			NE	e(ScS)	11 04 05			Mag=6 1/4-6½(Pal).
			F		11 29			
	9	L	Z	eP	10 51 13	d	41°.0	
			NE	eS	57 23			strong.
			NE	e(ScS)	11 04 00			
				eM	11 06			
			F		11 25			
832	9	L	Z	iPg	17 21 31	c	1°.3	
			NE	eSg	48			
			F		17 25			0=17h 21m 04s.
833	9	L	Z	iPKP	20 26 08	c		Epic=23.2S;70.6W.
			Z	i	20	c		h=52 km.
			Z	i	29 18	d		Mag=5½ - 5 3/4(Pal).
			F		20 36			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
834	10	L	Z	iP	14 51 13	c/N/E	31.°7	rather strong.
			Z	i	58	c		0=14h 44m 45s.
			Z	i	52 31	c		Epic:2.6S;139.4E(USCGS).
			NE	eS	56 19			h=25 km.
			ZNE	i	58 03			Mag: 6 3/4 (Pas).
				F	16 00			
	10	M	Z	iP	14 52 35	c/N/E	41.°0	strong.
			Z	i	59	c		
			Z	i	53 48	d		
			Z	i	54 35	d		
			NE	iS	58 47	E		
			NE	i	59 05	E		
			NE	eL	15 06			
				F	15 35			
	10	D	Z	eP	14 51 19	c		no clear S-wave.
			Z	e	53			
			Z	e	52 37			
			Z	e	53 15			
			NE	e(S)	56 51			
			NE	e	58 05			
				F	15 31			
835	10	L	Z	iPg	16 02 13	c	1.°0	small shock.
			NE	eSg	25			
				F	16 06			0=16h 01m 53s.
	10	D	Z	iP	16 02 21	c		
			NE	e	47			
				F	16 07			
836	10	L	Z	eP	16 40 39	d		faint.
			Z	i	48	d		
			Z	i	59	c		
			Z	i	43 15	d		Epic=22S;171.6E
				F	16 50			(USCGS);h about 128 km.
837	10	M	Z	iPg	20 46 31	d	1.°4	strong.
			NE	eSg	49			
				F	20 53			0=20h 46m 03s.
838	11	L	Z	iP	11 38 56	d		faint.
				F	11 40			
839	11	L	Z	iPg	19 33 39	c	2.°6	small local shock.
			NE	eSg	34 13			
				F	19 40			0=19h 32m 43s.
	11	D	Z	eP	19 33 43	c		faint.
			NE	e(S)	35 01			
			NE	e	35 37			
				F	19 46			
840	11	M	Z	iP	22 24 02	c	7.°0	strong.
			NE	iS	25 23	E		
			NE	i	25 35	E		
			NE	i	25 47	E		
			NE	i	26 15	W		
				F	22 36			0=22h 22m 16s.
841	13	L	Z	iP	06 41 54	d/N/W	21.°3	strong.
			NE	iS	45 34	W		0=06h 37m 08s.
			ZNE	iSeS	52 59			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
	13	M	Z	iP	06 41 03	c	17.0°	strong
			NE	i	46	E		
			E	i	42 33	E		
			NE	iS	44 09			
			NE	i(ScS)	06 51 53			
			F		07 10			
	13	D	ZNE	iP	06 41 55	d/N/E	22.0°	strong.
			Z	iPP	42 27	d		
			Z	i	42 53	c		
			Z	i	43 05	d		
			NE	eS	45 49			
			NE	eM	06 46			
			F		07 16			
842	13	L	Z	iP	09 33 37	d	92.0°	rather strong.
			ZN	i	37 13	c		0=09h 20m 37s.
			N	i	37 27	S		Epic:51.1N;168.8W
			N	e	40 47			(USCGS); h=65 km.
			Z	i	09 41 42	d		Mag=7(Pas)
			N	eSKS	43 43			7 1/4 (Berk)
			F		10 08			6 3/4 (Pal).
	13	M	Z	eP	09 33 18		88.0°	
			N	i	36	N		
			N	i	48	W		
			N	i	34 05	N		
			N	iS	36 48			
			N	eSKS	43 34			
			F		10 07			
	13	D	Z	eP	09 33 36	d		
			NE	e	44 46			
			F		10 30			
843	14	L	ZNE	General unrest between 05h 12m and 06h 10m.				
844	14	L	Z	iPg	08 19 39		2.0°	
			NE	eSg	20 05			
			F		08 22			0=08h 18m 58s.
845	14	M	Z	eP	16 00 38		41.0°	rather strong.
			Z	i	44	c		
			Z	i	01 44	c		
			NE	eS	06 50			
			N	i	07 14	N		
			E	i	07 32	E		
			E	i	08 20	E		0=15h 52m 52s.
			F		16 18			
846	14	L	Z	iP	18 04 04	d		Epic:20.5S;177.7W.
			N	e	10 34			h=536 km.
			F		18 12			very faint.
847	15	L	Z	i	07 01 13	d		very faint.
				F	07 05			
	15	L	Z	i	09 12 35	d		very faint.
				F	09 17			
848	15	L	Z	iP	17 49 40	c		
				F	17 51			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
849	15	L	Z	iP	21 51 28	d		very faint.
				F	21 56			
850	16	L	Z	ePg	16 58 50		0°.8	
			NE	eSg	59 01			
				F	17 01			0=16h 58m 34s.
851	17	L	Z	eP	04 19 29	d		Epic:30.8S;177.7W
				F	04 22			(USCGS).h=71 km.
852	17	L	Z	ePKP	05 30 22			Epic=43.5S;74.4W
			Z	i	31 11	d		(USCGS). h=123 km.
			Z	i	34 44			
				F	06 00			
853	18	L	Z	iPKP	13 02 23	d		Epic=22.5S;69.4W(USCGS)
			Z	i	03 09	d		h=163 km.
				F	13 04			
854	18	L	Z	iP	15 27 53	c		Epic=6.3S;130E(USCGS)
			Z	i	55	c		h=68 km.
			Z	i	29 40			
				F	15 32			
855	19	L	Z	iP	16 31 43	d		very faint.
				F	16 32			
856	19	L	Z	iP	20 16 05	d		very faint.
				F	20 18			
857	20	L	Z	iPg	07 54 52	d		very small.
				F	07 56			
858	20	L	Z	ePg	09 27 22			
				F	09 28			
859	20	L	Z	iPg	12 43 49	c	2°.2	
			Z	iSg	44 18	d		0=12h 43m 05s.
				F	12 46			
860	20	L	Z	iPg	18 16 44	d	1°.2	
			NE	eSg	17 00			
				F	18 19			0=18h 16m 20s.
861	20	L	Z	iPg	19 06 13	c	2°.0	
			NE	iSg	41	W		
			E	i	51	W		
				F	19 11			0=19h 05m 33s.
862	20	L	Z	iP	20 02 58	d		
				F	20 05			
863	20	L	Z	iPKP	22 22 01	c	(153°.0)	0=22h 02m 00s.
			Z	i	15	d		Epic=6.8S;80.7W
			Z	i	33	d		(USCGS).h=93 km.
			Z	iPKS	25 12	d		
			Z	i	27 03	d		
				F	22 40			
	20	D	Z	ePKP	22 22 12			
			E	e	31 12			
			E	e	44 20			
			NE	eL	23 26			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
864	20	L	Z	iPg	23 41 17	d		local shock.
				F	23 44			
865	21	L	Z	iP	04 37 45	c	52°.5	0=04h 29m 05s.
			N	epP	39 01			Epic=3.4S;152.3E
			NE	eS	42 45			(USCGS);h=371 km.
				F	04 44			h=371 km.
866	22	L	Z	iPg	01 14 18	c/S/E		strong local shock.
				F	01 19			
867	22	L	Z	iP	03 43 38	c	76°.0	0=03h 31m 54s.
			Z	i	44	c		Epic=19.2S;173.1W.
			Z	i	45	d		h=25 km.
			N	e	44 06			
			N	e	46			
			NE	eSKS	53 38			
				F	04 02			
	22	D	ZE	e	03 44 49			faint.
			E	e	54 53			
				F	04 03			
868	22	L	Z	iP	06 31 42	d	58°.0	0=06h 21m 40s.
			N	i	32 00	N		Epic=35.9S;58.3E
			N	e	36 32			(USCGS). h=35 km.
			N	e(S)	39 42			Mag=6 3/4 (Pas).
				F	06 40			
	22	D	ZE	iP	06 31 39	d	59°.0	faint.
			Z	e	32 25			
			NE	eS	39 41			
			NE	e	42 09			
				F	06 52			
869	22	L	Z	i(PKP)	12 48 09	c		Epic=40.0S;74.3W(USCGS).
			Z	i	50 39	d		h=107 km.
			ZNE	i	51 39	E		Mag=6½(Pas)
								5½ - 5 3/4(Pal).
	22	D	NE	e	12 51 45			faint.
				F	13 12			
870	22	L	Z	iPg	14 08 59	d	0°.2	
			NE	eSg	19 02			
				F	14 10			0=14h 08m 54s.
871	22	L	Z	iP	16 53 41	c		faint.
				F	16 54			
872	23	L	Z	iP	04 19 18	c	46°.7	0=04h 11m 37s.
			Z	iS	25 32	N/W/d		Epic=4.9S;153.8E
			NE	i	31 32			(USCGS).
			NE	e	33 32			h=516 km.
				F	04 35			
	23	D	NE	e	04 25 12			
			NE	e	26 17			
				F	04 37			
873	23	L	Z	iPg	10 22 38	c	1°.3	local shock.
			N	eSg	56			
			F					

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
874	23	L	Z	iP	14 24 04	d	76°.0	0=14h 12m 21s.
			Z	i	12	d		Epic:24.2S;176.1W
			Z	i	54	c		(USCGS). h=28 km.
			Z	ePP	28 44			Mag=6 3/4 (Pas)(Berk)
			NE	eS	33 44			6 3/4 - 7 (Pal).
			NE	eL	14 38			rather strong.
				F	15 25			
	23	D	Z	eP	14 24 09			no clear S-wave.
			ZN	e	24 53			
			Z	e	25 41			
			Z	e	26 49			
			NE	e	34 08			
			NE	eL	14 51			
				F	15 30			
875	23	L	Z	iP	16 56 56	d	22°.0	0=16h 52m 12s.
			Z	epP	57 21			Epic=4.6N; 125.8E
			NE	eS	17 00 46			(USCGS). h=143 km.
				F	17 14			rather strong.
	23	D	Z	eP	16 56 59	d	22°.0	faint.
			Z	e	59 09			
			NE	eS	17 01 49			
				F	17 21			
876	23	L	Z	iP	18 08 16	d		Epic=24.0S;176.3W
				F	18 13			(USCGS). h=51 km.
877	24	L	Z	iP	04 58 30	d	46°.0	0=04h 50m 16s.
			N	e	05 01 20			Epic=4.6S;153E(USCGS)
			N	eS	05 07			h=87 km.
			N	eScS	08 20	S		Mag= 6 1/4 (Pas).
				F	05 30			
	24	D	NE	e	04 57 27			very faint.
			NE	e	05 05 09			
				F	05 24			
878	24	L	Z	iP	07 04 23	d	76°.0	0=06h 52m 38s.
			Z	iPP	07 23	d		Epic=24.2S;176W.
			Z	ePPP	09 13			h=23 km
			NE	eS	14 03	E		Mag= 7 1/4-7½(Berk).
			NE	eL	07 31			7 - 7 1/4(Pal).
				eM	07 34			strong.
				F	08 04			
	24	D	Z	iP	07 04 29	d		rather strong.
			Z	i	05 15	d		S-wave unreadable.
			NE	e	13 29			
			NE	e	49			
			E	e(S)	14 21			
				eL	07 34			
				F	08 10			
879	24	L	Z	e	20 38 44			
				F	20 39			
880	24	L	Z	iPg	22 42 49	d	2°.6	strong local shock.
			NE	eSg	43 22			
				F	22 51			0=22h 41m 57s.

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
NOVEMBER 1960.								
	24	D	Z	eP	22 42 51			faint.
			Z	e	44 09			
				F	22 53			
881	25	L	Z	e	11 37 03			
				F	11 38			
882	25	L	Z	iP	22 03 29	d		Epic=38.0N;140.5E
			Z	i	37	d		(USCGS).h=157 km
			Z	i	55	d		(USCGS).
			NE	e(S)	11 05			
				F	22 13			
883	25	D	Z	e	22 10 57			faint.
				F	22 16			
884	25	L	Z	ePg	22 34 39		3°0	rather strong.
			N	eSg	35 19			
				F	22 38			0=22h 33m 40s.
	25	D	ZN	e	22 35 57			
				F	22 53			
885	26	L	Z	i	05 14 20	d		
				F	05 16			
886	26	L	Z	iP	07 46 17	c		Epic=36,6N;141,0E
				F	07 48			(USCGS). h=100 km.
887	27	L	Z	i	03 03 55	d		faint.
				F	03 05			
888	27	L	Z	iPg	10 58 02	c		rather strong.
				F	11 03			
889	27	L	Z	iP	13 17 31	d		Epic=5.6S;146.4E(USCGS)
				F	13 20			h=100 km.
890	27	L	Z	iP	14 15 04	d		
				F	15 06			
891	27	L	Z	iP	15 27 09	d		Epic=42.8N;143.3E(USCGS)
				F	15 31			h=122 km.
892	28	L	Z	iP	03 23 17	d		
				F	03 26			
893	29	L	Z	i	14 14 12	c		
			Z	i	20 18	d		
				F	14 22			
894	29	L	Z	i	18 12 42	d		faint.
				F	18 14			
895	30	L	Z	i	17 47 21	c		faint.
				F	17 48			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	R e m a r k s
DECEMBER 1960.								
896	1	L	Z	eP	09 43 12		22°.1	faint.
			Z	e	44 00			0=09h 38m 19s.
			Z	i	45 12	c		Epic:6.9S;128.9E
			NE	eS	47 12			(USCGS). h=32 km.
				F	09 52			(Banda).
897	1	L	Z	eP	10 18 55			Epic=5.7S;145.9E
			ZN	e	24 55	c		(USCGS). h=45 km.
				F	10 27			
898	1	L	Z	e	11 51 06			very faint.
				F	11 52			
899	1	L	Z	iPg	12 32 07	d/S/W		faint.
				F	12 34			
900	1	L	Z	iPg	12 37 07	d	0°.2	faint.
			E	eSg	10			
				F	12 39			0=12h 37m 03s.
901	2	L	Z	iP	01 40 54	c		
				F	01 43			
902	2	L	ZN	eP	04 45 44			Epic=6.6S;152.5E(USCGS
			N	e	52 04			h=33 km.
				F	04 58			faint.
903	2	L	Z	ePKP	09 30 28	c		rahter strong.
			E	i	48	E		Epic=24.5S;69.9W(USCGS
			E	i	31 16	E		h=37 km.
			E	i	33 08	d		Mag=7-7½(Berk).
			Z	i	34 28	c		6 3/4-7(Pal).
				F	09 55			
	2	D	N	e(PKP)	09 30 37			faint.
			N	e	33 01			
				F	in coda of no.904			
904	2	L	Z	iPKP	09 57 21	c		Epic=24.3S;69.9W
			NE	i	31	S/W		(USCGS).h=64 km.
			Z	i	10 00 57	d		Mag=6 3/4(Pas).
				F	10 13			
	2	D	N	e(PKP)	09 57 25			
			N	e	58 01			
			N	e	10 00 55			
				F	10 47			
905	2	L	Z	iPg	11 23 34	c	1°.4	
			NE	eSg	53			
				F	11 25			0=11h 23m 04s.
906	2	L	Z	iP	17 50 35	c		Epic=25.7N;129.2E
			Z	i	51 06	d		(USCGS).h=81 km.
				F	17 54			
907	2	L	Z	iP	19 48 32	d		Epic=41.6S;88.3E(USCGS
			Z	i	50 12	d		h = 35 km.
				F	20 00			

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No.	Date	Stat.	Comp.	Phase	Time (GMT)	Dir.	△	Remarks
DECEMBER 1960.								
908	2	L	Z	iPKP	22 49 51	c		Epic=24.2S;69.6W
			Z	e	50 19			(USCGS). h=45 km.
				F	22 52			
909	3	L	Z	eP	04 33 10		50°5	0=04h 24m 13s.
			N	ePcP	34 27			Epic=42.8N;104.5E
			ZN	ePP	35 04			(USCGS). h=45 km.
			NE	eS	40 20			Mag=7 (Pas) (Berk)
			NE	eL	04 53			6½-6 3/4(Pal)
				F	05 23			Rather strong.
	3	D	Z	iP	04 33 02	d	50°1	
			Z	iPcP	34 30	d		
			Z	i	35 26	c		
			E	iS	40 10	E		
			NE	eL	51 26			
				F	05 31			
910	3	L	Z	iP	07 20 17	d		Epic=52.5N;177.3W
			ZN	e	23 41			(USCGS).h=79 km.
			N	e	24 43			faint.
				F	07 26			
911	3	L	Z	eP	09 18 39			Epic=21.1N;121.1E
			N	e	19 59			(USCGS).h=35 km.
				F	09 20			
912	3	L	Z	ePg	13 59 49		1°2	
			NE	eSg	14 00 05			
				F	14 03			0=13h 59m 24s.
913	3	L	Z	iPg	19 20 52	d	1°5	faint.
			NE	eSg	21 12			
				F	19 23			0=19h 20m 20s.
914	3	L	Z	iP	21 22 16	c		faint
				F	21 23			
915	4	L	Z	e	00 02 10			faint.
				F	00 03			
916	4	L	Z	ePg	13 09 19		1°3	
			NE	eSg	37			
				F	13 11			0=13h 08m 51s.
917	4	L	Z	iP	15 51 07	c	16°7	0=15h 47m 14s.
			Z	i	52 00	c		Epic=1.1N;120.6E
			Z	i	53 01			(USCGS).h=46 km.
			NE	eS	54 11			
				F	16 07			
	4	D	E	eP	15 51 01		16°8	faint, no clear
			E	e(S)	54 06			S-wave.
				F	16 13			
918	4	L	Z	e	16 29 32			Epic=32.5N;141.6E
				F	16 33			(USCGS).h=106 km.
919	5	L	Z	iP	00 06 07	d		faint.
			Z	i	15	d		Epic=21.2S;179W

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
DECEMBER 1960.								
920	6	L	Z	iPKP$_1$	09 16 00	c	157°.0	0=08h 56m 08s.
			Z	i	06	c		Epic=21.4S;69.0W
			Z	i	12	c		(USCGS).h=25 km.
			ZE	iPKP$_2$	22	c		Mag=6 (Pal).
			Z	i	17 42	d		rather strong.
			Z	iPKS	19 43	d		
			Z	iPP	09 20 00	d		
				F	09 32			
	6	D	Z	iPKP	09 16 06	d		faint.
			Z	i	30	c		
			Z	i	17 27	d		
				F	09 40			
921	6	L	Z	iP	12 28 08	d		faint.
				F	12 30			Epic=20.5S;178.8W
								(USCGS). h=616 km.
922	6	L	Z	e	12 25 09			very faint.
				F	12 28			
923	6	L	Z	iP	21 35 55	d	8°.2	strong.
			Z	i	36 41	d		0=21h 33m 53s.
			NE	iS	37 31	W		Epic=2.6S;101.5E
			ZE	i	39 05	d		(USCGS). h=54 km.
			Z	i	39 51	d		
				F	22 09			
	6	D	Z	eP	21 30 06			strong, no time cor-
			NE	e(S)	31 37			rection.
				F	22 03			
924	7	L	Z	iP	16 23 03	c	17°.3	0=16h 19m 02s.
			Z	i	29	d		Epic=1.2N;121.8E
			E	eS	26 13			(USCGS). h=40 km.
				F	16 41			
925	7	L	Z	ePg	19 43 58		1°.1	0=19h 43m 35s.
			NE	eSg	44 13			faint.
				F	19 45			
926	8	L	Z	iP	01 34 41	d	72°.8	0=01h 24m 16s.
			Z	i	34 57	d		Epic=21.8S;179.4W
			N	eS	43 15			(USCGS).h=685 km.
				F	01 46			
927	8	L	Z	iP	10 06 33	c		Epic=7.8N;127.2E
			Z	e	46	c		(USCGS).h=25 km.
				F	10 11			
928	8	L	Z	i	11 39 23	c		very faint.
				F	11 43			
929	8	L	Z	eP	12 02 44			
				F	12 03			
930	8	L	Z	e	17 04 21			very faint.
				F	17 07			
931	8	L	Z	iP	21 41 28	d	23°.5	0=21h 36m 21s.

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
DECEMBER 1960.								
932	8	L	Z	eP	19 17 31			faint.
				F	19 23			Epic:9.8N;125.5E (USCGS).
933	9	L	Z	eP	10 00 50		3°8	
			NE	eS	01 26			
				F	10 04			0=09h 59m 47s.
934	9	L	Z	i	21 37 15	c		Epic=72.0N;1.6W
				F	21 38			h=60 km.
935	10	L	Z	i	06 06 27			faint.
				F	06 07			
936	10	L	Z	iP	09 15 01	d		
				F	09 18			
937	10	L	Z	iP	13 44 26	d		Epic=15.0S;172.3W
			N	e	52 26			(USCGS). h=25 km.
				F	13 53			faint.
938	10	L	Z	iP	13 59 15	c	19°0	0=13h 55m 13s.
			Z	i	14 00 05	c		Epic=1.5N;124.3E
			Z	i	14 00 31	d		(USCGS). h=292 km.
			NE	eS	14 02 29			
			Z	i	14 02 59	d		
			Z	i	14 03 15	d		
			NE	eScS	14 10 25			
			Z	eScS	14 10 26			
				F	14 15			
939	10	L	Z	iPg	16 03 09	d	1°1	
			NE	eSg	03 23	c/N		
				F	16 06			0=16h 02m 47s.
940	10	L	Z	ePg	18 32 22		0°2	
			Z	iSg	25	d		
				F	18 33			0=18h 32m 17s.
941	10	L	Z	iP	22 13 49	d		faint.
			Z	i	14 08	d		
				F	22 16			
942	11	L	Z	iPg	00 24 48	d	2°2	
			NE	eSg	25 17			
				F	00 27			0=00h 24m 03s.
943	11	L	Z	iPg	03 16 14	c	0°3	
			N	eSg	18			
				F	03 17			0=03h 16m 07s.
944	11	L	Z	eP	03 22 50			Epic=1.6N;126.4E
			N	e	23 20			(USCGS).h=52 km.
			NE	e(S)	26 40			faint.
			N	eScS	34 18			
				F	03 38			
	11	D	N	e	03 23 16			very faint.
				F	03 39			
945	11	L	Z	e	05 50 32			faint

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
DECEMBER 1960.								
946	11	L	Z	iP	19 03 00	c	60°.0	0=18h 53m 04s.
			Z	i	06	c		Epic=15.7S;166.9E
			Z	i	51	c		(USCGS).
			NE	eS	19 11 00			h=133 km.
				F	19 15			
	11	D	NE	eP	19 03 00			very faint.
				F	19 23			
947	12	L	Z	eP	04 28 19			faint.
				F	04 30			Epic=10.7S;164.8E
								(USCGS).h=198 km.
948	12	L	Z	iPg	08 18 27	d	1°.8	
			NE	eSg	51			
				F	08 20			0=08h 17m 49s.
949	12	L	Z	ePg	11 06 16		1°.6	
			N	eSg	38			
				F	11 08			0=11h 05m 42s.
950	12	L	Z	iP	13 44 00	c		faint.
				F	13 45			
951	12	L	Z	iP	16 36 41	c		faint.
			Z	i	37 00	d		
			Z	i	27	c		
				F	16 40			
	12	D	E	eP	16 36 40			very faint.
			E	e(S)	38 24			
				F	16 53			
952	13	L	Z	ePg	07 46 44			
				F	in coda of no.953.			
953	13	L	Z	iP	07 47 04	d	69°.0	0=07h 36m 00s.
			NE	e	14			Epic=52.1S;160.9E
			E	e	30			h=29 km.
			N	iS	55 44	N		Mag=7 (Pal).
			NE	eL	08 06			7 1/4(Pas).
				F	09 09			
	13	D	Z	eP	07 47 04		66°.6	Strong, no time
			Z	i	48 40	c		correction.
			ZN	i	52 04	c/S		
			E	eS	55 52	E		
			N	i	56 44	S		
			N	i	08 02 50	N		
				F	in coda of no. 954.			
954	13	L	ZN	iP	10 14 05	c/N	47°.5	0=10h 05m 30s.
			Z	ipP	15	d		Epic=27.7N;142.4E
			Z	i	37	c		(USCGS).h=28 km.
			Z	i	15 23	c		
			Z	ePP	15 57			
			NE	eS	20 57			
				F	10 33			
	13	D	NE	e	10 21 04			very faint.
				F	10 33			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
DECEMBER 1960.								
955	13	L	Z	iP	22 30 58	d		rather strong.
			Z	i	31 23	d		
			Z	i	37	d		
				F	22 35			
956	14	L	Z	eP	01 07 10	c	58°.0	0=00h 57m 22s.
			ZN	ePP	09 22			Epic=10.8S;165.4E
			N	eS	15 04			(USCGS).h=65 km.
			N	eScS	17 04			
				F	01 24			
957	14	L	Z	i	10 37 42			faint.
				F	10 38			
958	14	L	Z	i	11 25 20	c		faint.
			Z	i	44	d		
			Z	i	27 32	c		
				F	11 28			
959	14	L	Z	i	14 23 07	c		faint.
				F	14 24			
960	14	L	Z	iP	14 33 50	c	50°.0	faint.
			Z	i	34 00	d		Epic=51.9S;160.7E
			Z	i	10	d		(USCGS). h=77 km.
			Z	i	34 51	c		
			Z	e	35 02			
				F	14 36			
961	14	L	Z	iPg	15 34 44	c	1°.3	
			NE	eSg	35 01			
				F	15 36			0=15h 34m 17s.
962	14	L	Z	iP	23 56 09	c	21°.3	strong.
			N	ePP	53			0=23h 51m 28.6s.
			ZN	eS	59 55			Epic=2.9N;126.5E
			E	eScS	00 07 23	E		(USCGS). h= 77 km.
			N	iScS	29			Mag=6 3/4(Pas)(Berk).
				F	in change of record.			
	14	D	Z	iP	23 56 14	c	21°.0	strong.
			Z	i	58 08	d		
			E	eS	00 00 00			
			Z	i	00 16	c		
				F	00 31			
963	15	L	Z	iP	12 15 03	d		Epic=13.6N;120.7E
			Z	i	13	d		(USCGS).h=149 km.
			Z	i	29	d		faint.
			Z	i	17 07			
				F	12 19			
964	15	L	Z	ePg	15 12 08	d/S	1°.3	0=15h 11m 40s.
			NE	eSg	26			
				F	15 20			
	15	D	Z	iPg	15 12 16	c	2°.2	local shock.
			NE	iSg	44	N		
				F	15 22			0=15h 11m 31s.
965	15	L	Z	e	15 33 28			faint.
				F	15 36			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
DECEMBER 1960.								
966	15	L	Z	i	18 44 10	d		faint.
				F	18 45			Epic=18.1S;17.8W(USCGS) h=702 km.
967	16	L	Z	e	09 03 26			faint.
				F	09 07			
968	16	L	Z	iP	17 00 15	c	69°.5	0=16h 49m 08s.
			Z	e	35	c		Epi=13.6N;42.3E(USCGS)
			NE	eS	09 19			h= 25 km.
			N	e	09 45			
				F	17 13			
969	16	L	Z	iPg	18 10 59	c	2°.1	small.
			N	eSg	11 27			
				F	18 14			0=18h 10m 15s.
970	16	L	Z	i	20 30 56	c		small
				F	20 31			
971	17	D	Z	iPg	10 37 56		2°.4	no time correction,
			NE	eSg	38 28			strong. 0=10h 37m 06s.
				F	11 05			Epic=6.4S;109.3E(USCGS) h=295 km.
	17	L	ZNE	iP	10 37 58	d/N/W		strong.
			NE	iScS	51 50			S-wave unreadable.
				F	11 03			
972	17	L	Z	eP	13 32 31			Epic=11.1N;141.3E
			Z	e	33 35	c		(USCGS).h=25 km.
				F	13 35			
973	17	L	Z	iPg	15 51 04	c		faint.
				F	15 53			
974	17	L	Z	iP	16 52 10	c		Epic=47.3N;153.6E(USCGS).
			Z	i	57 04	c		h=15 km.
				F	16 58			
975	17	L	Z	i	20 11 15	d		faint.
				F	20 13			
976	17	L	Z	iPg	20 53 42	d	1°.5	0=20h 53m 10s.
			ZN	eSg	54 02	c/S		
				F	20 57			
977	18	L	Z	iP	18 25 56	d	24°.0	0=18h 20m 44s.
			Z	iPP	26 35	c		
			Z	iPPP	41	c		
			NE	eS	30 06			
				F	18 35			
	18	D	Z	eP	18 24 40			no time correction.
			NE	e	29 00			
				F	18 50			
978	19	L	Z	iPKP	13 41 54	c		
			Z	i	42 12	d		
			Z	e	44 02			
				F	14 02			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	R e m a r k s
DECEMBER 1960.								
979	19	L	Z	iP	19 06 58	c		Epic=11.3N;191.2E
				F	19 11			(USCGS). h=77 km.
980	19	L	Z	ePg	19 19 37		1°3	
			N	eSg	54			
				F	19 22			0=19h 19m 10s.
981	19	L	Z	e	22 53 47			faint.
				F	22 56			
982	20	L	Z	iP	11 51 30	c		faint.
				F	11 52			Epic=21.1S;179.1W(USCGS).
								h=662 km.
983	20	L	Z	ePg	23 56 22		5°3	strong.
			NE	eSg	57 30			0=23h 55m 32s.
				F	00 04			Epic=3.8S;103.1E(USCGS).
	20	D	Z	iPg	23 56 12	c	4°0	
			N	iSg	57 06	S		
				F	24 07			0=23h 54m 50s.
984	21	L	Z	iP	21 01 08	c	39°0	0=20h 53m 50s.
			N	eS	06 58			Epic=11.2N;141.3E(USCGS).
				F	21 08			h=72 km.
985	21	L	Z	eP	22 41 08	c		faint.
			Z	i	58	c		Epic=62.5S;167.1E.
				F	22 46			h=29 km.
986	22	L	Z	eP	03 06 58			faint;no clear S-wave.
			NE	e	14 06			Epic=9.8N;94.2E(USCGS).
				F	03 26			h=60 km.
	22	D	NE	e	03 06 52			
			E	e	07 33			
			E	e	15 10			
				F	03 29			
987	22	L	Z	eP	06 42 55		74°0	0=06h 31m 18s.
			ZN	ePP	45 45			Epic=30.8S;177.1W(USCGS).
			NE	eS	52 27	S/E		h=46 km.
				F	06 58			
988	22	L	Z	eP	14 23 54			faint.
			Z	i	24 18	c		Epic=27.8S;176.1W(USCGS).
				F	14 25			h=60 km.
989	22	L	Z	e	16 33 54			faint.
				F	16 35			
990	22	L	Z	ePg	19 39 31		1°2	faint, small.
			Z	eSg	47			
				F	19 41			0=19h 39m 06s.
991	22	L	ZE	iP	21 10 34	d/W	47°3	strong.
			ZNE	iPcP	11 54	c		0=21h 02m 41s.
			Z	ipP	12 04	c		Epic=6.8S;155.3E(USCGS).
			Z	i	13 44	d		h=469 km.
			Z	i	15 10	d		Mag= 5½(Pal).
			N	i	15 18	s		

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	Remarks
DECEMBER 1960.								
	22	D	Z	eP	21 10 38	d	48°.0	strong.
			N	eS	17 00	S		
				F	21 33			
992	23	L	Z	e	07 26 27			faint.
				F	07 28			
993	23	L	Z	iP	09 43 20	d	7°.0	0=09h 41m 39s.
			E	i	38	E		strong.
			E	iS	44 40	W		
			E	i	45 12	W		
			N	e	49 14			
				F	10 03			
	23	D	Z	iP	09 43 09	c	5°.2	strong.
			E	eP	43 09			
			N	i	43 12			
			NE	iS	44 11	S		
				F	10 00			
994	23	L	Z	e	09 57 19			faint.
				F	09 58			
995	23	L	Z	eP	10 53 13		25°.0	0=10h 47m 54s.
			Z	i	33	d		Epic=8.2N;125.7E
			NE	eS	57 29			(USCGS). h=67 km.
				F	11 15			
	23	D	Z	e	10 53 32			no clear P-wave.
			NE	eS	57 39			
				F	11 10			
996	23	L	Z	iP	15 52 14	d		faint.
				F	15 55			Epic=8.8N;125.7E
								(USCGS).h=120 km.
997	23	L	Z	iP	19 18 18	c		faint.
				F	19 20			Epic=27.8S;177.2W
								(USCGS).h=261 km.
998	23	L	Z	iP	19 36 22	d		Epic=15.6N;121.7E
			Z	i	40	d		(USCGS).h=49 km.
				F	19 40			
999	24	L	Z	iP	16 50 32	d		Epic=38.4S;143.6E
				F	16 52			(USCGS);h=77 km.
1000	24	L	Z	e	20 40 34			faint.
				F	20 42			
1001	24	L	Z	ePg	22 12 42			faint.
			Z	eSg	56			
				F	22 14			
1002	24	L	Z	iPKP	23 27 09	d		faint.
				F	23 28			Epic=3.6S;77.8W(USCGS)
								h=25 km.
1003	25	L	Z	iP	05 29 36	d		faint.
				F	05 31			Epic=29N;142.8E(USCGS).

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	△	R e m a r k s
DECEMBER 1960.								
1005	25	L	Z	eP	08 54 14			faint.
				F	08 57			
1006	25	L	Z	e	13 04 32			faint.
				F	13 05			
1007	25	L	Z	iPg	13 30 04	d	1°.8	rather strong.
			NE	eSg	28			
			Z	e	37 38			
				F	13 39			0=13h 29m 26s.
	25	D	Z	ePg	13 30 00			
			NE	iSg	25	S		
				F	13 38			
1008	26	L	Z	iP	01 53 30	c	49°.0	0=01h 44m 51s.
			NE	eS	02 00 26			Epic=33.8N;136.2E
				F	02 05			(USCGS). h=109 km.
	26	D	N	e	01 51 38			no time correction.
			N	i	02 00 30	S		
				F	02 10			
1009	26	L	Z	eP	13 53 43			faint.
			Z	e	57 23			Epic=49.4S;164.3E
				F	13 58			(USCGS). h=37 km.
1010	26	L	Z	iPg	19 47 37	d	1°.3	
			NE	eSg	47 55			
				F	19 49			0=19h 47m 09s.
1011	27	L	Z	iP	11 52 15	d		faint.
			Z	i	35	c		
				F	11 56			
1012	27	L	Z	iPKP	18 29 40	c		Epic=13.7S;74.3W
			Z	i	30 19	c		(USCGS). h=82 km.
			Z	i	31 04	c		
			Z	i	32 15	c		
			Z	i(PP)	34 00	c		
			Z	i	34 26			
				F	18 38			
1013	28	L	Z	i	18 07 21	d		
				F	18 10			
1014	29	L	Z	e	00 39 41			
				F	in coda of no.1015.			
1015	29	D	Z	iPg	00 41 23	d	1°.9	
			NE	eSg	48	N/W		
				F	00 52			0=00h 40m 43s.
	29	L	Z	iPg	00 41 27	c		strong local shock.
				F	00 51			
1016	29	L	Z	e	06 13 35	c		faint.
				F	06 20			Epic=18.4S;174.7W.
								h=104 km.
	29	D	Z	e	06 14 00			faint.
			E	e	16 12			
				F	06 25			

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No.	Date	Stat.	Comp.	Phase	Time(GMT)	Dir.	Δ	Remarks
DECEMBER 1960.								
1017	29	L	Z	ePg	09 29 41			faint.
				F	09 31			
	29	D	NE	e	09 36 24			faint.
				F	09 42			
1018	29	L	Z	iPKP	10 55 46	c	129°.0	0=10h 36m 40s.
			Z	iPP	57 51	c		Epic=44.8S;75.6W
			Z	e	11 03 06			(USCGS). h=30 km.
				F	11 06			Mag=6½- 6 3/4(Pas)
								5 3/4-6(Berk).
1019	29	L	Z	iP	13 49 54	c		faint.
				F	13 54			Epic=5.5S;146.1E
								(USCGS).h=57 km.
1020	29	L	Z	e	18 05 50			faint.
				F	18 06			
1021	29	L	Z	iPKP	19 21 29	d	156°.0	faint.
			Z	i	37	d		0=19h 01m 38s.
			Z	iPP	25 22			Epic=18.8S;69.4W(USCGS).
				F	19 27			h=39 km.
1022	31	L	Z	i	12 14 09	d		faint.
				F	12 15			
1023	31	L	Z	iP	16 08 24	c		Epic=7.8S;120.1E
			Z	i	54	c		(USCGS).h=25 km.
				F	16 16			faint.
1024	31	D	N	e	17 03 40			very faint.
				F	17 20			
1025	31	L	Z	iPKP	18 27 16	c		faint.
			Z	e	29 22			Epic=43.9S;75.0W
			NE	e	30 36			(USCGS).h=92 km.
				F	18 32			Mag=6½- 6 3/4(Pas)
								5 1/4-5½(Pal)
	31	D	N	e	18 28 48			very faint.
				F	18 39			
1026	31	L	Z	iP	20 03 54	d		very faint.
				F	20 06			Epic=6.6S;129.1E
								(USCGS). h=112 km.

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