

State of Israel
Ministry of Development
The Geological Survey
Seismology & Geom. Division
Malkhei Israel St.
Jerusalem

Jerusalem Provisional Readings

Bulletin No. 68

January 1960

No.	Date	Phase	G.M.T. H.M.S.			No.	Date	Phase	G.M.T. H.M.S.		
1	1	iP iS d = 1100 Km strong microseisms	06	10	48 12 28	20	17	iP e(S) 16N; 96,5E; Near South Coast of Burma	03	20	04 24 53
2	2	L	11	14	-	21		e(P) may be microseisms	18	10	02
3	3	eP eiS d = 1200 Km	08	35	35 37 26	22	12	iP 23,5N; 122E; Near East Coast of Formose	02	04	27
4		iP iS d = 55 Km	14	11	42 50	23		i(PKP) i	22	42	31 C 34
5		iP iS 39 1/2 N; 15 1/2 E; Tyrre- nian Sea h about 250 Km	20	23	28,5C 26 41	24	13	i	08	18	51
6	4	i(P)	06	12	51	25		iPKP ipPKP i!PS iPKKP M	15	59	02,5 45 16 09 16 10 32 44 20
7		i(P) i(S)	06	19	25,5 27 24	26		16S; 72W; Southern Peru Mag. 7 1/2; h about 200 Km			
8		iP eS 45N; 27E; Romania	12	55	29 58 19	27	14	i(P) iP Near Coast of Northern Soumatra	20	35	57 02 51 53 C
9		e	20	18	50						
10		e	22	18	50	28		iP i(S)	10	38	13 D 23
11	5	i	06	11	04	29		iP iS	14	17	54 59
12	6	iP iS d = 40 Km	04	06	55 07 01	30	15	iPKP ipPKP PP PS	09	48	56 49 35 49 56 59 42
13	6	iP ei(S)	23	01	04 07 16			15S; 75W; Near Coast of Southern Peru; h about 150 Km; Mag. about 7			
14	7	L	14	18	-						
15		i	23	27	36 C						
16	8	L	15	42	-traces	31		iP iS d = 750 Km	10	42	34 D 43 55
17	9	iP iS d = 770 Km	04	00	35 D 01 56	32	16	iPKP eiPPKP 20 1/2 S; 178W; Fiji Islands region; h about 600 Km	12	49	42 C 51 55
18		iP iS	07	29	47 D 32 48						
19	11	iP 28,5N; 131E; Ryukyu Islands	02	39	53 C	33		iP ipP 63N; 151W; Alaska; h about 150 Km	21	01	55 02 24

No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.	
			H.M.S.						H.M.S.	
34	17	iP iS h about 810 Km	02 53 54	33 59	C	53	24	iPKP iPKP ₂ ePKS	04 41 29 44	24 D 15
35		iP iS h about 780 Km	02 12 13	03 25				eSKS 15 ¹ / ₂ S; 179W; Fiji Islands Mag: 6 - 6 ¹ / ₂	48 06	
36		iP ipP 40 ¹ / ₂ N; 142E; off Coast of Northern Honshu, Japan h about 100 Km	04 31 45	29 D		54	25	eP 52 ¹ / ₂ N; 160E; Near East Coast of Kam chatka	08 59 07	
						55		eP e(L)	21 37 51 42 19	
37		iP iS d = 900 Km	11 32 35	57 10		56		ePKP Mag: 6 ¹ / ₄ ; 16S; 179W; Fiji Islands	16 49 09	
38	18	eiP 5N; 126 ¹ / ₂ E; South Coast of Mindanao P.I.	09 17	34 D		57		iP iS	17 21 24 22 46	
39		e	18 12	01		58	26	eP e	01 52 47 59 20	
40		e(P)	22 06	48		59	26	iP iS	03 13 36 C 14 57 S	
41	19	iP iS d = 800 Km	00 46 47	26 50	D			d about 770 Km		
42		iP 52N; 158E; Near South Coast of Kam chatka Mag: 6 ¹ / ₄ - 6 ¹ / ₂	02 29	20 D		60		iP	03 28	05
						61		i!P iS	07 55 37 57 17	
								d about 1070 Km		
43		ei(P) 23S; 180E; South Coast of Fiji Islands Mag: 6; h about 600 Km	09 33	48		62		iP iS	09 54 22 55 53	
								39 ¹ / ₂ W; 39 ¹ / ₂ E; Turkey		
44		iP iS Southern Turkey	21 28 29	27 51	D	63		iP iS	13 07 23 C 08 45	
								38N; 29E; Turkey		
45	20	iP iS d = 780 Km	18 12 13	05 27		64		i(P) i(pP)	20 30 37 31 17	
46	21	iPKP 16S; 179 ¹ / ₂ E; Fiji Islands h 600 Km	11 02	26 D		65		iP iS	13 36 09 37 32	
								d = 790 Km		
47		iP iS d = 770 Km	11 07 09	46 07	C	66		iP iS	20 09 14 D 10 34	
								d = 760 Km		
48		iP iS	11 31 32	27 41		67		iPKP 30S; 178W; Kermadec Islands	22 41 16	
49		iP iS h about 770 Km	19 54 55	04 25		68	27	iP iS	02 30 14 31 35	
50	23	(L)	05 38	-		69		i(P)	22 20	08
51		iPKP 17S; 177W; Fiji Islands region; h about 400 Km	06 43	12		70		iP 1(S)	14 13 45 51	
52		iP iPP 4S; 127 ¹ / ₂ E; Cerani Islands region; Mag: = 6 ¹ / ₄	07 44 48	38 22		71	28	ei	00 04	30
						72		iP	02 03	18
						73		iP iS	19 36 52 37 05	
								Mag: 2,5; d = 90 Km Felt at Nazareth region with intensity 3		

No.	Date	Phase	G.M.T. H.M.S.	No.	Date	Phase	H.M.T. H.M.S.
74	29	iP	16 45 34	76	31	eiP	05 20 31
		iS	46 54			33 $\frac{1}{2}$ N; 134 $\frac{1}{2}$ E; Near East of Shiroku Japan	
75	30	iP	09 28 25	77		ePKP	19 27 19
		iS	29 18			iPKP ₂	30
		d = about 490 Km				16S; 172 $\frac{1}{2}$ W; Samoa Islands region	
				78		iP	23 08 24
						iS	09 47
						d = 6 ^o	

Note: Preliminary Determination of epicenters according to U.S.C.G.S.

E. Arieh

Seismology & Geom. Division

State of Israel
 Ministry of Development
 Geological Survey
 Division of Recent Geology
 Seismological Section
 Malkhei Israel str.
 Jerusalem.



JERUSALEM PROVISIONAL READINGS

Bulletin No. 69

February 1960

No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.		
			h	m	s				h	m	s
1	1	iP iS 35 N; 23,5 E; Near west coast of Crete	12	02	17 04 09	13	7	iPKP 15,5 S; 173,5 W, Samoa I. Region	11	36	48,5 C
2		eP 50,5 N; 160 E, Off east coast of Kamchatka	14	08	44	14	8	iP e(s) (D = 770 Km.)	01	01	12 02 33
3		eiP 17 43 22	17	43	22	15		ePKP ePP 58,S; 67 W, Drake Passage	13	04	33 06 15
4		eiP iS 19 38 23 39 14	19	38	23 39 14	16	9	iP iPP ePPP eS 4 S; 128 E, Banda Sea	12	09	36 C 13 20 15 57 20 32
5		i(P) 20 19 32	20	19	32	17	10	iP ePP ePPP e(S) 4 S; 128 E, Ceram, Mag 6.3/4	00	09	12 D 12 41 14 42 19 54
6	2	i 02 07 11	02	07	11	18		iPKP iPKP ePKS ² 15,5 S; 173 W, Samoa I. region	23	39	48 C 55 43 23
7		iPKP 33,5 S; 179 W, Kermadec I. Region	06	49	51	19	11	iP iS D = 635 km.	02	23	33 C 24 22
8	4	e iP iPP 4,5 S; 153,5 E, New Ireland Region	04	06	10 45 07 12	20		iP e 04 18 21 C 19 49	04	18	21 C 19 49
9		iP 39 N; 143 E, Off East coast of Honsheu Japan	17	02	56	21		i may be microseisms	14	02	38
10		iPKP 18,5 S; 178 W, Fiji Islands Deep (h about 600)	20	57	04	22		ePKP i(P) i(PKS) 11,5 S; 166,5 E, Santa Cruz Islands.	21	15	23 C 17 41 18 51
11	6	i 22 24 14	22	24	14	22	7	iP iP 5 N; 123 E, Celebes Sea; Deep (about 600 km.)	10	19	31 C 21 45 D

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No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.		
			h	m	s				h	m	s
23	13	iP iS	02	02	48 03 45	37	19	iP eS D = 13°	21	39	16 41 37
24		iP iPP e(PS) 1,5 N; 127,5 E, Halmahera	15	54	13 57 54 16 06 10	38	20	e(P)	00	34	16
25	14	iPKP iPKP ₂ 29 S; 177 W, Kermadec Islands	15	59	44 C 16 00 36	39		i	12	41	28
26		i	17	02	55	40		iP 52 N; 159 E, Near East Coast of Kamchatka	14	39	40 C
27	15	iPKP 18 S; 176,5 W, Kermadec Islands	22	38	28 C	41		iP iS i D = 14°	14	42	42 45 02 14
28		iPKP 29,5 S; 176,5 W, Kermadec Islands	01	29	30 D	42		iP e eS D = 15°	14	52	00 54 10 41
29	16	iPKP iPKP ₂ 32,5 S; 179,5 W, Kermadec I. Region	05	41	42 C 49	43		ei	20	14	41
30		iP small, local	14	32	02	44	21	iPKP epPKP eiPP 42 S; 173 E, Soath Island, New Zealand. Deep (about 60 km.)	01	06	30 43 08 15
31		e(P) i	18	22	50 24 41	45		eP i	01	51	05 53 18
32	17	iPKP ePKP ePP ₂ 30 S; 112,5 W; Easter Islands Region. Mag 6,5	12	52	04 18 55 42	46		e	04	53	19
33		iP 43,5 N; 145,5 E, Near East coast of Hokkaido, Japan	16	40	03	47		eP ei ei eS 36 N; 4,5 E, Northern Algeria. 47 Killed and 88 injured; many houses destroyed at Beni Ilman and Melouza.	08	19	12 25 47 23 45
34	18	iP 52,5 N; 160 E, Near East coast of Kamchatka	21	47	40 D	48		iP iS L 38 N; 42 E, Turkey.	09	31	24 33 12 38
35	19	eiP 45,6 N; 10,5 E, North Lombardy, Italy.	02	35	29	49		i(P)	20	16	17
36		iP ipP iS isS 36 N; 70,5 E, Deep (about 200 km.) Hindu-Kush.	10	42	44 D 43 29 47 17 48 59	50	22	iPKP i i(pPKP) 20 S; 178 1/2 W, Fiji Islands. Deep (about 600 km.)	01	13	13 D 44 15 36

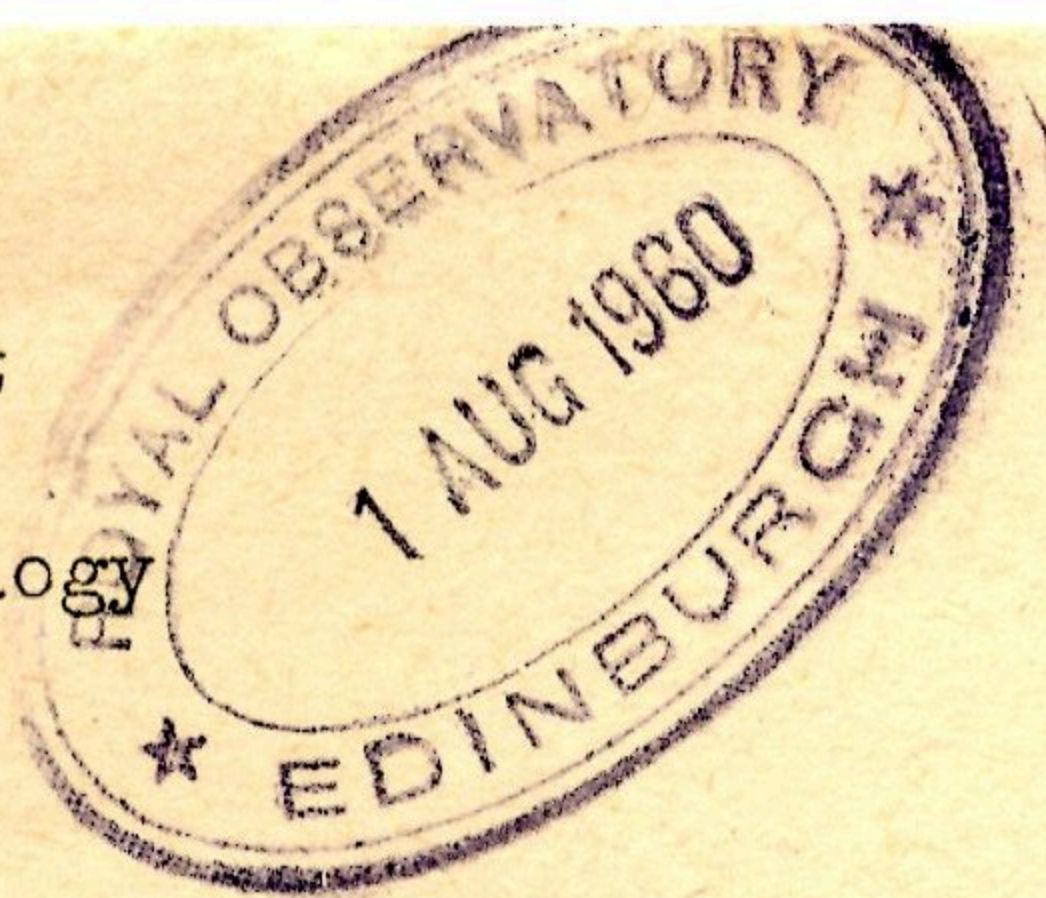
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No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.		
			h	m	s				h	m	s
51	22	eiP iS 39 N; 21 E, Greece	21	07	31 10 02	64	24	ei	22	06	09
52	23	iP eS 39 N; 20,5 E, Greece.	00	34	15 36 46	65	26	iP eS D = 790 km.	01	03	19 04 42
53		i(P)	01	13	45	66	iPKP ePP 20 S; 174 W, Tonga Islands	06	52	28 56 12	
54		iP iPcP 36 N; 70 E, Afganistan.	02	15	41 18 37,5	67	iP iS D = 1.300 km.	21	07	12 09 13	
55		iP iS 39 N; 20 E, Greece Mag. about 5 ¹ / ₂ , 125 houses destructured.	07	37	48 40 15	68	iP ePP 51,5 N; 178 W; Aleutian Island. Mag. 6 ³ / ₄ .	23	42	38 45 43	
56		eiP eS 39 N; 20,5 E, Greece.	07	51	02 53 35	69	i(P)	23	59	13	
57		i(P) i	10	48	02 17	70	27	eP 51,5 N; 178 W, Aleutian Islands	08	23	17
58		iPKP 19 S, 178 W, Fiji Islands Deep (about 500 km.)	11	49	58	71	iPKP 30,5 S; 179,5 W, Kermadec Islands.	09	15	56	
59		e(P) i(S)	21	47	03 49 21	72	iP iP 6,5 S; 102,5 E, Off South coast of Sumatra.	09	17	07 C	
60	24	iP iS 38 N; 41 E, Turkey.	18	57	34 59 55	73	28	iP iS D = 1.270 km.	01	02	05 04 00
61		ei	19	07	47	74	29	iP iS D = 750 km.	00	28	43 31 03
62		iP iS D = 1.200 km.	20	59	34 21 01 19	75	iP iPP iPPP eS 30 N; 9 W, Morocco. Mag. about 6,3; 10.000 dead 25.000 wounded, major property damage at Agadir.	23	47	39 49 12 28 52 56	
63		iPKP iPP 7,5 S; 156 E, Solomon Islands. Mag. 6.3/4	21	55	58 C 57 15						

E. Arieh

Note: Preliminary Determination of Epicentres
according to U.S.C.G.S.

State of Israel
 Ministry of Development
 Geological Survey
 Division of recent Geology
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 Jerusalem.



JERUSALEM PROVISIONAL READINGS

Bulletin No. 70

March 1960.

No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.		
			h	m	s				h	m	s
1	1	i	17	43	33	15	5	(iP)	11	28	55
2		iP iS Distance 8°	19	38	23 39 14	16		iP iPP eS 1N;129E. Halmera, Mag. 6,75	14	02	38 06 28 13 39
3		iPKP 22 S; 175 W, Tonga Islands	20	19	31 C	17		iP iS Distance 630 Km.	22	19	27 20 35
4	2	iP iS Distance 650 Km.	12	22	15 C 25 24	18	7	iP e eS 34,5N;55E. Iran	00	55	43 C 58 33 58 45
5	3	e(P) e	11	47	02 54 03	19		i(P)	05	26	10
6	4	i	02	29	16	20	8	iPKP ipPKP i!PP Deep (about 250 Km.) Mag 7-7,25 16,5S;168,5E. New Hebrides Islands	16	52	22 C 53 18 55 17
7	4	iP i(pP) i iPP i(pPP) e(S) Deep (about 100 Km.) Mag. 6,5 31N;129E. Near South coast of Kyushu Japan	04	04	57,5 C 05 11 07 08 08 02 08 33 14 48	21	9	e i!	23	12	53 13 39
8		i	14	43	36	22		iP iS Distance 800 Km.	23	16	22 17 46
9		iP e(PP) 72N;1,5W. Jan Mayen Islands region.	16	33	41 35 23	23	10	iPKP iPKP ₂ 15S;174W. Samoa I. region	14	04	16 58
10	4	eiP e(S)	18	32	02 29	24		iP 47N;152E. Kurile Islands	14	45	59 C
11		i	20	10	35	25	12	iP iS	05	36	55 C 37 01
12		eP i i(S)	20	20	14 21 54 22 16	25		iP eS i! 42N;21E. Southern Jugoslavia 1 killed and several injured at Tetovo.	11	57	39,5 C 12 00 33 00 45
13		iP i(PcP) 7,5N;94E. Nicobar Islands	21	15	57 C 16 37	14	5	eP iS Distance 8,5°	06	53	33 55 33

No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.			
			h	m	s				h	m	s	
27	12	ePKP ei e(PKS) Mag 6,5; 6S; 152E. New Britain	20	49	28	44	20	iP i iS Distance 6,5	10	44	15	
28	13	iP iS Local, very small	12	32	16	45	13	iP ipP 40N;143,5E. Japan, Deep (about 60 Km.)	13	49	15	
29		iP iS Distance 130 Km. V.S.	12	33	58	46	14	iP	14	15	10	C
30	14	iP 42,5N.;143E. Hokkaido, Japan	01	05	13,5	47	17	i!P iPP i(S) iPPS iSS iL M Deep (h about 60 Km.) Mag 7,3 40N; 143,5E. off northern coast of Honshu, Japan. 5 foot seismic sea waves at Miaka.	17	19	53	C
31		iP iPP i iS 29N; 49,5E. Persian Gulf.	20	17	55		23	10	30	38		
32	15	iP 51N;174,5W. Adreanof Islands Aleutian Islands.	09	34	16		31	29	35	46		
33		ePKP 20S;174W. Tonga Islands.	10	28	58		39	38	18	00	02	
34		iP iS Distance 760Km.	21	22	00		18	00	02			
35	16	iPKP ePP 15,5S;173,5W. Samoa I. region	17	58	38		18	01	47			C
36		iP	19	35	40		22	34	32			
37	17	iP iS Distance 6	23	43	59		36	38				C
38	18	e i	03	36	03		23	08	38			
39		iP iS Distance 760Km.	16	32	42		23	40	11			D
40	19	ei(P)	14	08	41		22	34	32			
41		ei(P) i iS	14	55	37		22	27	18			
42		i(P) i(S)	14	58	22		29	21				
43	20	iP iS Distance 810 Km.	03	58	28		29	21				
				59	53		22	27	18			
							29	21				
							22	34	32			
							36	38				
							23	08	38			
							23	40	11			D
							00	06	20			D
							00	47	16			C
							50	28				
							52	18				
							Mag 6,5. 39,5N; 143E. Near East coast coast of Honshu Japan					
							03	55	24			
							Burma.					
							07	22	19			
							24	10				
							Distance 7,7					
							09	30	48			C
							ePP eS 40N;143E. Near East coast of Honshu, Japan.					
							19	02	35			
							03	01				
							Distance 220 Km.					

-3-

No.	Date	Phase	G.M.T.				No.	Date	Phase	G.M.T.			
			h	m	s					h	m	s	
58	23	iP i! iPP eiPPP eiS L M	00	35	49	C	71	28	iPKP 13,5S;165E.	06	58	18	New Hebrides Islands
		Mag. 6,5-7. 39,5N; 143E. Near East coast of Honshu, Japan,					72	iP eiS	09	31	34	Distance 750 Km.	
							73	i(P) ei	12	54	04		
59	23	iP 39,5N;143E. Japan.	01	19	43	D	74	i!PKP iPP	12	57	45		
60		iP i L 39,5N; 143 East, Japan.	22	35	24,5		75	iP iS	13	00	35	23S; 176W. Tonga Islands Region.	
			23	13	40				14	52	46	Local, V.S.	
61	24	eiP i(S)	03	20	00		76	iP	20	57	57	58N; 32W. North Atlantic Ocean	
62		e(p) i(S) Obscured by microseisms.	23	26	50		77	29	iPKP	00	30	43	D 33,5S; 177,5W. Kermadec I. region.
63	25	iPKP i Deep (About 400 Km.), 19S; 177W. Fiji Islands	02	48	00	D	78	iP	01	01	38		
				49	33		79	iPKP iPKP e(PKS)	06	50	16		
64		i(P) i!(S)	09	50	37	D	80	30	e(P) e(S)	11	09	07	
				57	04					11	25		
From 26 March - 08:45, till 27 March - 07:40 Seismograms damaged.													
65	27	iP iPP i!PPP 6,5S; 102,5E. Off South coast of Sumatra.	09	17	12		E. Arieu Seismological Section						
				19	36		Note: Preliminary Determination of Epicentres according to U.S.C.G.S.						
				20	47								
66		iPKP 30,5S; 178W. Kermadec Islands.	17	44	38	D							
67		e(PP)	20	35	28								
68		iPKP iPKP ₂ iPKS 37,5S; 177E. Off coast of North Island, N.Z.	23	47	43	C							
				48	30								
				50	58								
69	28	ePP Mag. 6,5-6,8 (Pas.), 7,5N; 82,5W. South coast of Panama.	00	32	35								
70		ePKP ePP Deep (About 150Km.), 13,5S;165E. New Hebrides Islands.	06	55	18								
				57	39								

STATE OF ISRAEL
MINISTRY OF DEVELOPMENT
GEOLOGICAL SURVEY
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JERUSALEM PROVISIONAL READINGS

Bulletin No. 71

A, ril 1960

No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.		
1	1	iP iS	02	08	33 38	14		eP eiS	03	00	16 01 08
2		iP	12	33	25	15	10	iP	Distance about 480 km 20 39 30		
			Local, very small						53 N; 167,5 W; Aleution Islnds		
3		iP iS	16	48	34 49 28	16		iP iS	22	07	33 09 02
			Distance about 500KM.						Western Turkey		
4	2	eP iPP e(S)	22	38	43 39 29 40 39	17	12	iP iS	04	24	44 26 17,5
			36N;50E, Western Iran			12		from	16 00 untill		
5		eP eiS	23	35	55 38 19	13			08 00 Seismometer out of action		
			34,5 N; 48,5 E, Iran			18	13	iP iS	11	30	08 31 37
6	5	L	08	13	-	19		e(PP)	12	56	53
			traces			20	14	ei	00	57	15
7	6	eiP i(S)	03	16	24 17 21	21	15	iP iS	03	21	16 22 08
8		iP iS	10	20	44 21 34				Distance about 470 km		
			Distance about 460 KM			22		ePKP ePP	03	45	32 49 51
9	7	e iPKP epPKP	14	06	15 24 08 20				27S; 113W, Easter I. region, M=6,5		
			24 S; 179,5W, Fiji I. region, Deep(h= 500 KM) Mag = 6			23		iPKP	08	53	06
									28S; 177W Kermade Islands		
10	7	i(P) i(S)	14	14	26 15 11	24		eP iS	11	01	47 9 17
									Distance about 850 km		
11		ei	20	50	23	25		iP ePP	11	51	05 54 09
12	8	iPKP i!(PKP ₂)	00	15	21 27	26		iP iS	13	12	41 14 12
13		iP iS	02	46	28 47 47				Distance about 860 km		
			Distance about 760 km								

No.	Date	Phase	G.M.T.
64	29	iP	20 17 16 Celebes
65	30	iP ePP eS	04 14 21 18 08 25 03 Celebes
66		iP iS	10 14 47 16 19 Distance about - 280 Km.
67	30	iPKP 16 S; 173 W,	11 20 00 Tonga Islands region.
68		e	22 26 10

Note:

Preliminary determination of epicentres in accordance with U.S.C.G.S's data.

Correction:

March 1, serial n^o 2 Distance - should read: 470 Km.

E. Arieh
In charge of the Seismological Section.

EA/hk

No	Date	Phase	G.	M.	T.	No	Date	Phase	G.	M.	T.
25	14	iP iS Distance 4,9°.	01	17	07 18 06	39	20	iPKP Norfolk Island., Mag = 6,5	11	32	05
26		iP iS Distance 6,1°	03	18	35 19 47	40	21	iP iS 37,5 N; 21 E., Near W. Coast of Greece	06	44	28 46 53
27	14	eiP eiS Distance 6°	04	49	09 50 10	41		eP iPKP iPP iPKS ei(SKS) L M 37,5 S; 73,5 W., Near coast of Chile, Mag about 7,5; Many casualties and extensive property damage at Concepcion and surrounding area.	10	18	20 21 49 23 25 25 03 29 09 54 - 11 09 45
28		i(S)	07	32	08						
29		iP Kamchatka Interruptions of electrical current: 15 from 0600 till 0900 16 from 0608 " 0622	22	32	20						
30	17	e(P)	03	01	42	42	21	iPKP iPP	11	12	52 14 38
31	18	iP ipP eiPP eipPP Kyukyu I., h = 100 Km, Mag = 6 3/4	06	47	07 23 50 03 24	43		iPKP)	12	40	14
32		iP iPP i(S) i	08	44	55 45 14 46 31 47 57	44		iPKP iPP i(PPP)	13	18	57 20 38 23 18
33		e ei	14	27	06 28 15	45		ePKP	14	18	22
34	19	iP ipP Hindu Kush, China, h = 200 Km;	02	12	57 13 32	46		iPKP	14	50	57
35	19	iP iPcP iPP ePPP iS 17S; 66E., Mascarene I. region.	10	21	56 22 34 24 08 25 33 30 15	47		e	15	27	45
36		iP i iS Distance 7°	17	48	42 49 12 50 21	48	22	ePKP iPP iPKS Near coast of Chile., M = 6,3 - 6,5 ...	10	49	36 51 11 53 15
37		iP iS Distance 15,5°.	23	41	49 44 25	49		eiPKP iPP iPPP Near coast of Chile, Mag = 7 1/4 - 7,5. (Readings doubtful because of overlapping with the preceding shock)	10	51	39 53 47 55 57
38	20	eP ePP e(S) Persian Gulf	04	18	15 41 21 17	50		iP iS Distance 90 Km.	14	14	40 53
						51	22	eP ePKP i!PP iPPP eiPKP Near coast of Chile, Mag = 7 3/4	19	11	27 14 56 16 32 18 53 25 02

No	Date	Phase	G.M.T.			No	Date	Phase	G.M.T.		
52	22	e(P) iPKP iPP	19	26	05 29 42 30 49	68	24	e iPKP iPP eiPPP	15	06	02 17 09 27 12 19
		Near coast of Chile. Mag = 7,5 - 7 ³ / ₄ .					44,5 S; 167,5 E., South I. New Zealand. Mag = 6 ¹ / ₄ - 7; Felt Milford Sound.				
53		i(P) iPKP iPP	19	26	42 30 04 31 28	69		iPKP iPP	20	51	48 53 33
		(Readings doubtful because of overlapping with the preceding shock.) Series of earthquakes and accompanying seismic sea waves caused many casualties and major property damage along central Chile coastal area from 36° S to 44° S.					50,5S; 74W, Southern Chile				
54		e(PKP)	23	48	28	70	25	iP i iS	00	31	15 40 53
		Chile					Distance 3,1°				
55	23	iPKP	00	44	45	71		e iPKP iPP	08	53	39 46 55 37
		"					45 S; 76 W, Chile. Mag. = 6 ³ / ₄ - 6 ³ / ₄				
56		iPKP ePP ePPP	01	10	11 12 01 14 24	72		e(P)	10	33	29
		"									
57		iPKP	01	53	52	73		eiP iS L M	12	54	05 57 37 13 00 03 04 48
		"									
58	23	eiPKP iPP	03	05	30 07 13	74	25	eP ePP	13	51	49 55 22
		Southern Chile					1 N; 128,5 E., HaMadera				
59		iPKP ePP	03	15	21 17 09	75		i(P) i ei	15	17	59 18 05 21 32
		Chile									
60		iPKP iPP	05	32	35 34 09	76	26	iP iS	05	13	42 16 29
		"					40 W; 20 E; Albania - Grece border Mag = 6 ¹ / ₂				
61		iPKP ePP	07	28	22 30 18	77		eP eiS	13	52	22 55 15
		48S; 77W; Off coast of Chile					Distance 17°				
62		ePKP i(PP)	08	32	14 34 23	78		iP iS	14	10	26 28
		40,5S; 75,5W., Near coast of Chile									
63		e(PKP) e(PP)	10	11	12 12 49	79		iP iS	15	29	03 30 16
		Chile					Distance 6,2°				
64		ePKP ePP	10	57	02 58 46	80		i(P)	18	15	19
		Chile									
65		i(S) i	14	18	59 19 39	81		iP	20	14	05
		Chile					27 N; 93 E., Eastern India				
66		e(PKP) e(PP)	14	20	38 22 26	82		ei ei(P) ei(S)	20	36	02 37 06 39 28
		Chile									
67	24	e(P) i	00	33	58 35 16						

No.	Date	Phase	G.M.T.			No.	Date	Phase	G.M.T.		
83	26	eiP eiS Distance 6,7°.	23	11	45 13 04	95	30	iP	13	43	27
84	27	e(P) e(S) Distance 6,7°.	01	11	52 17 14	96		iP	16	18	10
85		iP	01	33	44						
86		iPKP	23	26	03						
87	28	iP iS Distance 7,9°.	11	37	12,5 38 44	97	31	i(P) ePP eiS Distance 55°.	00	29	14 31 43 36 58
88	29	iP	00	50	30	98		iPKP ePP 39,5 S; 75 W. Chile, Mag = 6	02	59	04 03 00 55
89		ei iS Distance 1,5°.	00	51	50 52 10	99		iP eiPP eiS 18 N; 62., Loewars I., Mag = 6	11	15	04 18 25 25 40
90		eiPKP eiPP eSAS 45 S; 76,5 W., Chile, Mag=6,5	07	58	27 08 00 16 05 23	100		iP iS	14	00	20 23
91		iP i	20	02	52 03 33	101		iP eipP 5,5 S; 109,5 E., Java Sea, h = 600 Km	21	11	55 14 13
92		eiP e(S) 0; 121,5 E., Celebes.	20	10	21 11 13						
93		eP iPKP iPP Near coast of Southern Chile	21	39	48 43 01 45 01						
94	30	eiP iS Distance 8°.	11	22	39 24 02						

Notes:

- 1) Preliminary determination of epicentres in accordance with U.S.C.G.S's data.
- 2) Please take notice of our new address as written above.

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JERUSALEM PROVISIONAL READINGS

Bulletin No. 73

June 1960.

No.	Date	Phase	G. M. T.			No.	Date	Phase	G. M. T.		
1	1	ePKP ePP 38 S; 73 W., Chile	05	21	55 23 29	12	4	iP iS Distance 7,2°	08	53	08 54 33
2		iP iS Distance 10°.	05	35	42 37 41	13	5	iPKP eiPKP ₂ Kermadec Islands	19	50	33 50 57
3	2	iPKP (obscured by microseisms) Southern Chile, Mag = 6,7.	06	17	13	14	6	eP eiPP ePPP eS Off coast of Northern California. Mag = 5 ¹ / ₂ - 5 ³ / ₄	01	32	11 36 23 38 36 43 00
4		iPKP Tonga Islands	07	38	50	15	6	ePKP iPP ePPP e(SKKS) M Near coast of Chile, Mag = 6,7 - 7	06	14	46 16 37 19 40 22 01 07 09 -
5		iP eiS 33,5 N; 49 E., Iran	12	45	26 47 51	16	7	iP Near East Coast of Kamchatka.	13	09	37
6		iPKP ipPKP Fiji Islands, h about 550 Km.	19	17	54 20 06	17		eiP ePP eS 14 N; 57 E., Arabian Sea.	15	40	35 41 25 45 03
7		iPKP ipPKP Fiji I. h = 550 Km.	20	07	17 09 32	18	8	i(P) i(S)	13	34	23 32
8		iPKP epPKP ei(PP) Fiji I., h = 600 Km, Mag = 6.	13	33	17 35 37 36 03	19		iP	16	29	41
9	3	iPKP ipPKP Fiji I., h = 600 Km, Mag = 6.	13	42	15 44 36	20	9	eP ePPP i iS 39,5 N; 39,5 E, Eastern Turkey	02	46	20 59 47 22 48 11
10		iP ePP Near south coast of Hokkaido, Japan.	16	30	12 33 21	21		eiP iS Eastern Turkey	04	59	53 01 48
11	4	ePKP ePP Near coast of Jalisco, Mexico Mag = 6 - 6 ¹ / ₄	02	45	23 46 15						

No	Date	Phase	G. M. T.			No	Date	Phase	G. M. T.		
22	9	iP iS Strait of Otranto.	08	27	39 15	38	15	iP iPP iPPP Near North Coast of Honshu, Japan.	15	49	10 19 06
23		iP	10	27	33	39		iP eS	18	01	50 56
24		eiPKP i ePP ePKS New Hebrides I., Mag = 5 ^{3/4} - 6.	11	43	21 36 45 58 46 59	40		iPKP	23	09	37
25		iP Azores Islands.	17	56	40	41		eP e	23	41	16 20
26	10	e	01	04	07	42	15	iP ePP ePPP Western New Guinea.	23	51	22 06 20
27		eiPKP e(PP) Samoa Is. region, Mag = 5,5	21	31	55 35 35	43	16	eiP	10	28	36
28		iP iS Distance 6,8°	05	23	31,5 24 5 1	44	17	e	00	40	14
29	11	eiPKP iPP e(PKS) ePKKS D'Entrecasteaux Is., Mag = 6	15	32	59 34 16 36 12 43 23	45		iPKP	05	21	18
30		ePKP ePP ePPP D'Entrecasteaux Is.	16	56	36 43 15	46		iP ePP Adreamof I., Aleutian I., Mag = 6	16	48	51 26
31	12	iPKP ipPKP iPP Fiji I. h about 600 Km.	04	15	25 40 11	47		e(P)	21	58	55
32		iPKP Kermadec Islands, h = 250 Km.	07	17	37	48	18	e e	00	39	10 45
33		ePKP ePP e(PKS) 36S; 98W, S. Pacific Ocean, Mag = 6,5.	07	39	23 14 04	49		iP	02	06	06 13
34	13	i(P)	03	38	23	50		Distance 5,3°			
35		iPKP ePP Off Coast of Southern Chile.	06	06	11,5 09	51	20	iP e i(S)	02	31	38 52 40
36	14	iP iS Distance 4,3°	01	47	01 53	52		ePKP eiPP Near Coast of Chile, Mag = 7 - 7,5	02	20	07 42
37		i(P) May be microseisms.	04	25	39	53		iPKP eiPP ePPP Chile, Mag = 6 ^{3/4} - 7	13	18	41 16 37
						54	22	iP ePP eS 12 N., 57,5 E, Arabian Sea.	16	18	05 11 10
						55		iP iS	17	52	11 55
								Distance 90			

No	Date	Phase	G. M. T.			No.	Date	Phase	G. M. T.		
56	27	i(P)	23	42	05	75	24	e(P)	18	23	33
57	23	eP	03	41	07	76		iP	19	27	59
		e		42	33						
		e(S)		43	18	77	28	iP	01	25	13
58		eP	12	55	10			i			18
		eS		56	52	78		e(P)	02	14	03
		Distance	9°.					ei(S)		15	30
59		iP	14	01	56	79		iP	14	07	49
		iS		02	03						
60		eP	15	51	54	80		iP	14	15	41
		i(S)		52	48	81		i(PKP)	21	11	31
61	24	iPKP	22	54	42	82		iP	21	19	14.5
		i(PKP ₂)		55	06			eS		20	43
		Kermadec Islands.						Distance	7,7°		
62	25	iPKP	02	22	35	83	28	iPKP	16	27	02
		ePKP ₂		23	09			Tonga Islands region.			
		e(PKS)		26	22	84	29	eiPKP	02	16	16
		Kermadec Islands.						Southern Chile			
63		iP	12	24	04	85		e	04	49	04
		iS		25	55			iPKP			11
		Distance	9,5°.					Kermadec Islands.			
64		i	15	01	07	86		iP	16	45	02
		ciPKP			36			iS			04
		ePKP ₂		02	13	87		eiP	17	20	16
		eiPKS		03	52			Fox Islands, Alution Islands.			
		e(PP)		05	07						
		Kermadec I., Mag = 5 ³ / ₄ - 6 ³ / ₄									
65		ePKP	15	18	56	88	30	iP	01	15	33
		Kermadec I.						iS			36
66		iP	20	04	21	89		iP	02	14	44
								iS			48
67	26	i(P)	11	56	35	90		iP	13	14	49
68		iP	18	28	48			iS			54
		iS		30	19	91		iP	20	11	25
		Distance	7,8°.					ePP		14	30
69	27	e(P)	12	57	08			e(PPP)		15	28
		e		58	03			Kenai Peninsula, Alaska.			
70		iP	13	13	33						
71		iP	14	00	30						
72		i(P)	16	07	16						
73		e(PKP)	17	10	21						
74		iPKP	17	53	50						
		Kermadec Islands									

Notes:

- 1) Preliminary determination of epicentres in accordance with U S C G S's data.
- 2) Please take notice of our new address as written above.

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 Jerusalem Provisional Readings
 July 1960
 Bulletin No. 74

No	Date	Phase	G.	M.	T.	No	Date	Phase	G.	M.	T.
1	1	eP 56N; 165E. Komandorskie Is.	08	11	24	14	5	iP iS Distance 5,9 Degrees, Small	15	06	39 07 48,5
2	2	iP ei(S)	09	21	37 56	15		iP	15	21	21,5
3		iP 41N; 131,5E. h-550Km. Sea of Japan.	12	55	08	16		iP	23	32	12,5
4	3	iP IPP eS Adreanof. Is. Aleutian Is. M- 6,5	20	34	04 37 52 44 52	17	6	iP iS Local, Small.	03	31	12 14
5		iP eiPP Adreanof Is. Aleutian Is.	23	05	42 09 18	18		iP ipP iS i 36,5N; 70,5E. Hindu Kush region Deep (h-200Km.)	05	22	35 23 20 27 13 28 23
6	4	eP eS lg Iran	03	47	03 49 40 51 44	19		e	07	18	25
7		eiP i eiPP ePPP eS 52N; 131,5W. Queen Charlotte Is. M= 6,5-6,7	04	42	03 12 46 03 48 04 53 27	19a7		iP	21	05	10
8		iP iS Distance 11 degrees, Small	08	57	25 59 41	20	8	iP eiPP 31N; 130,5E. Japan	13	03	24 06 26
9		eP iS (L) Iran.	11	49	07 52 26 53 37	21		i(P)	14	31	25
10		iP iS Distance 50 Km., Small.	12	26	53 27 01	22	9	eP 25,5N; 125E. Ryukyu Is.	00	54	22
11		eiP eiS Distance 2,5 Degrees, Small	12	39	38 40 10	23		eiP eiS Distance 33 Degrees	03	37	12 42 19
12		eP Queen Charlotte Is., M-6,	13	23	39	24		iP iS Distance 8,5 Degrees	04	12	13 13 48
13	5	iP	04	32	22	25		ei	07	43	49
						26		eiP eiS 41N; 21E. Southern Yugoslavia	22	46	20 49 02
						27	10	iP eiPcP eiPP M 0; 98E. Off Coast of Sumatra	00	16	15 51 18 31 47 -

+2-

No.	Date.	Phase	G.	M.	T.	No.	Date.	Phase	G.	M.	T.
28	10	eiP eiS Distance 5,5 Degrees, Small.	00	45	53 46 58	46	16	iP iS Distance 9 Degrees.	22	41	38 43 20
29		iP Lg	13	53	14 58 35	47	17	iP iS Distance 3 Degrees, Small.	01	37	48 38 25
30		e(P) (Lg)	23	00	04 05 16	48		iP 12N;125,5E. Samar Philip Is.	02	27	40
31	11	eiP eiS Distance 5 Degrees, Small.	01	21	28 22 27	49		L	05	35	-
32		ei	05	10	07	50		iP 10S;13W. Ascension Is. Region.	19	53	02
33		iPKP i(PKS) Tonga Is. Region, M=6-6,5	12	15	01 18 43	51	18	iP Nicobar Is.	01	04	05
34		iP iS Local, Small.	14	19	48 53	52		iP eiS Nicobar Is.	01	25	25 33 24
35		iP iS Distance 1,9 Degrees, Small.	14	48	46 49 11	53		e(P)	01	54	05
36		iP Local, Small.	15	17	21	54		i i	08	06	46 07 01
37	13	eiP eiPP L 53,5S; 1,5E. Bouvet Is. Region. M-6	08	09	03 12 52 42 -	55		iP iPP eS 7S;51,5E. Amirante Is	18	58	25 60 05 19 04 04
38		iP iS Greece; Minor damage at Chalcidic Peninsula.	13	04	11 06 43	56		e	20	11	17.
39		iP iS	13	15	29 16 42	57	19	ei(P) ei(S)	23	22	59 24 14
40	14	e(P) e(S)	03	38	30 40 52	58	20	i(P)	03	00	22
41		iP L	08	12	22 18 23	59		iP iPP 49N;157,5E. Kurila Is. Region	09	43	14 46 39
42		iP iSKS iS 5N;127,5E. Moluca Passage.	10	40	02 50 49 51 17	60		iPKP epPKP iPP New Hebrides Is. Deep (h-200Km.)	21	18	32 19 09 21 26
43		iP eiS 7N;38,5E. Ethiopia	18	45	02 49 17	61	23	ei(P)	02	57	39
44		eP eiPP eiPcP 36N;70E. Hindu Kush	22	17	11 18 09 20 12	62		iPKP Fiji Is. Deep (h-600Km.)	07	50	21
45	15	iP iPP 12S;45,5E. Off Northern Coast of Madagascar.	05	10	22 12 03	63		ei ei	13	29	23 37
						64	24	iP iPP iPPP Near Coast of Kamchatka.	10	01	18 03 50 05 11
						65	25	iP eS Distance 7,6 Degrees.	01	12	52 14 20

No.	Date.	Phase	G.	M.	T.
66	25	iP	03	53	28
		ePP		57	12
		eS		03	45
		55N;163E. Near Coast of Kamchatka			
		M=5,7-6,5			
67		iP	11	24	13
		iPP		27	15
		iPPP		29	16
		iS		34	15
		54N;159E. Kamchatka			
		Deep (h=100Km.) M=6,7-7			
68		eP	16	52	34
		iS		55	30
		Distance 17,5 Degrees			
69		iP	21	15	56
		eiS		19	10
		32N;56,5E. Iran.			
70	26	eP	04	08	19
		ePPP		13	10
		eS		17	59
		40,5N;144,5E. Japan			
71		iP	05	18	56
72		iP	12	38	29
		iS		40	08
		40,5N;37E. Turkey.			
73	27	eP	09	07	58
		eiP e P		08	10
		5,6S;103,6E. Sumatra (h=90Km.)			
74		eiPKP	10	24	00
		44,7S;75,1W. Near Coast of			
		Southern Chile. M=6-6,5 (h=25Km.)			
75	28	i(P)	01	38	28
76		i(PKP)	11	51	23
		Unreliable because of a damage in			
		the time signal system.			
		29 till 31			
		Readings entirely unreliable due			
		to lack of time signals.			

Note:

Epicentral data from U.S.C.G.S. preliminary determinations.

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JERUSALEM PROVISIONAL READINGS
BULLETIN No. 75
August 1960.

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
From 1st August until the 2nd 10:00 Time Signal System out of action.						17	8	eiP i(pP) iS	20	38	06 12 39 25
1	2	i(PKP)	10	26	15	36N;27,3E. Dodecanese Is. (h-87Km.)					
2		ei	18	45	52,5	18	9	iP	06	34	22
						Off East coast of Kamchatka.					
3		eP iS	19	20	16,5 21 54	19		iPP iPPS	07	58	02 08 15
						Off coast of Northern Calif. M-6					
4		iP	21	00	30	20		eiP iS	15	22	35 24 30
						Distance 8 Degrees.					
5	3	iP iS	02	28	36 30 04	Distance 9,5 Degrees, Small					
						Distance 7,6 Degrees.					
6		iP i(S)	16	01	21 30	21		iPKP ipPKP	17	06	14 34
						Tonga Is. Region. M-6. Deep (h-186)					
7		e(P)	21	58	38	22		eP ei eiS	22	03	37 45 05 49
						Distance 12 Degrees.					
8	4	iP iPP eS	07	47	55 51 35 58 57	23		eP ePKP ePP	23	52	51 56 02 58 25
						51,4N;179,1E. Rat Is. Aleutian Is. M=6-6,3. Deep (h-83Km.)					
9		iP	15	44	48	11,5S;166,3E Santa Cruz Is.					
10		iP iS	17	03	10 04 37	24	11	iP	03	06	19
						0;121,6E. Celebes.					
11	5	eiP ei(PcP)	16	19	02 17	25		iP	05	03	10
						8,8N;126,1E. Mindano, Philippine Is.					
						Off South coast of Kamchatka.					
12		eiP	22	40	42	26	12	iP i(pP) iPP	13	24	57 25 08 28 11
						36,1N;141,4E. Japan (h-95Km.)					
13	6	ei(i)	13	58	23	27		iP iS	12	28	05 08
						Local, small.					
14		iP iS	10	13	04 14 22	28	13	iP ipP iPP	07	23	21 34 26 25
						Distance 6,6 Degrees, small.					
15	7	iP iS	17	02	22 24	40,6N; 142,0E. Japan					
						Local, Small.					
16	8	iP eS L	12	33	00 37 12 39 11	29		iP iS	08	10	39 12 29
						Distance 9,5 Degrees. Very small					
						12,0N;44,4E. Gulf of Aden.					

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.	
30	15	eP i i(S)	09	07	23 44 09 38	17			19	30	untill	
						18			11	40		
									Seismometer blocked.			
31		eP	09	52	14	48	18	iP i(S)	17	03	52 04 57	
32		iPKP iPP iPPP	14	33	54 41 17	49		iP	20	59	25	
		39,7S;74,8W. Near coast of S. Chile.							Kurile Is.			
33		eP ei e(6)	22	32	22 19 38	50	19	eiP i(S)	01	11	33 12 43	
					40 38	51		iP	12	38	00	
34	14	iP ei	04	13	19 45	52		eiP	12	53	48	
		45,4N;151,1E. Ryukyu Is.							27,0N;140,1E. Bonin Is. Reg. (h-280Km)			
35		iP iS	11	55	21 27	53		iP	17	16	03	
		Distance 10 Degrees.							54,1N;160,6E. Near E. coast of Kamchatka.			
36		iP iS	21	18	09 21	54		e(P)	17	36	11	
		Distance 6,1 Degrees.					55	20	eP i(S)	12	20	50 21 23
37		iP iPP	22	43	06,5 4	56		eiP eiPP L	20	21	00 13 54 -	
		36N;69,3E. Hindu Kush.							35,6S;15,4W. Tristan da Cunha Reg.			
38	15	eiP ePcP ePP LQ	07	08	26 31 31 05	57		eiP	21	32	02	
		13,4S;65,8E. Indian Ocean					58		iP e(PP)	22	34	26 37 32
39		iP	14	08	42			0,5N;120,0E. Northern Celebes.				
		Local, small.					59	21	iP ipP eiPP	13	02	05,5 57 65 34
40		eiP e(PcS)	14	43	06 40			4,9N;125,1E. Philippine Is. (h-211Km.)				
		13,5S;67,0E Indian Ocean.					60		iP i(S)	13	14	13 24
41	16	eiP ePP	10	39	36 03	61		eiPKP eiPKS	17	40	44 13	
		3,6S;68,7E. Chagos Archipelago Reg.							15,3S;176,0W. Fiji Is. Reg.			
42		iP iS	14	19	27 33	62		eP	18	17	11	
		Distance 40 Km. Small.							44,6N;148E. Kurile Is. (h-184Km.)			
43	17	eP	09	44	44	63	22	iP iS	02	32	02 12	
		20,1S;0,4W. S. Atlantic Ocean							Distance 6 Degrees, small.			
44		eiP iPcP Lg	11	35	03 28 03	64		iP iS	03	33	55 22	
		19,8S;12,2W. S. Atlantic Ocean.							Distance 7,5 Degrees, small.			
45		iP iS	12	05	12 12	65		eiP iS	13	44	57 06	
		Distance 75 Km. Small					66		iP iS	16	42	52 58
46		iP	14	03	18			Local, Small.				
47		iP	14	08	44	67	23	ei ei(P) ei	04	34	00 02 39	

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
68	23	iP iS 29,0N;59,9E.	09	02	55 07 03 S.E. Iran (h-116Km.)	87	28	eP	16	24	19
69		iP iS Distance 4,7 Degrees.	10	07	44 08 41	88		iP iS Distance 40 Km. Very Small.	22	27	17 23
70		iPKP iPKP ₂ ei(SKS) 14,5S;176,4W. Fiji Is. Region. M-6	23	04	33,5 42 11 24	89	29	iP iS Distance 60Km. Small	13	57	36 45
71	24	eP iPPP eS 56,3N;163,8E. Near Kamchatka.	01	56	29 02 02 41 06 52	90		eiP iS 35,4N;27,1E Crete.	18	02	26 03 51,5
72		iPKP iPKP ₂ ei(PKS) 19,0S;174,1W. Tonga Is.	06	08	50 09 15 12 16	91		i(P)	18	10	04
73		iP ipP ePP 24,4N;95,0E. Burma-India Border.	19	36	58 37 22 39 14	92		iP iS Distance 3 Degrees, small	19	25	57 26 34
74	25	i(P)	11	53	19	93		iP iS Distance 7,7 Degrees small	20	26	13 27 43
75		eP 52,7N;169,6W. Fox Is. Aleutian Is.	17	55	14	94	30	iP iS Distance 7,1 Degrees, small	04	06	47 08 10
76	26	eiP	16	57	33	95		iP	15	29	54,5
77		eP e(PP)	17	21	01 22 44	96		iP iS Distance 7,7 Degrees, small.	20	27	48 29 17
78		iPKP ePP ePKS 13,5S;165,9E. New Hebrides Is.	18	46	28 49 03 50 08	97		eiP iS Distance 15Degrees, small	22	36	19 38 47
79	27	iP iS 34,4N;26,3E. Crete.	10	19	10,5 20 36,5	98	31	ePKP ePKP ₂ 20,9S;114,1W. S. Pacific Ocean.	07	36	03 25
80		iP	10	13	08	99		iP ePP Near coast of Mindano, P.I.	17	34	00 36 45
81		eiP iS Distance 2,9 Degrees, Small.	10	26	53 27 29	100		iP iS 39,1N;36,3E. Turkey.	22	13	42 15 04
82		iP	10	29	23	Note: Epicenters from U.S.C.G.S.					
83		eP eiS Distance 6,8 Degrees.	12	13	10 14 31						
84		iPKP 22,4S;179,0W. Tonga Is Region.	13	10	20,5	E. ArieH S e i s m o l o g i c a l S e c t i o n .					
85		iP eipP ePP 49,9N;153,7E. Kurile Is. M-6	18	28	17 29 02,5 31 27						
86	28	iP iS Distance 1,5 Deg. Small.	02	23	48 24 09						

Dr. Jellgett's Km.

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JERUSALEM PROVISIONAL READINGS
BULLETIN No. 76
September 1960.

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
1	1	eiPKP 27,6S;176,9W;Tonga Is. region h-500 Km.	07	54	33	16	3	iPKP eiPP eipPKP 6,1S;154,5E; Solomon I. h-457Km. M-6 2/2-63/4	12	59	35
2		ePKP ePP iPKS 16,8S;167,6E;New Hebrides Is. M-6	09	47	36 50 05 51 08,5	17		iP ePP CS- L _R M ^R 44,6N;149,1E; Kutille Is. M-6 1/4	23	58	52,5 00 02 30 09 09 32 42 03
3		eiPKP iPKS 16,8S;167,6E;New Hebrides Is. M-6	10	54	23 57 55	18		iP 14 07 09	14	07	09
4		i(P)	11	11	06,5	19	6	eiP iS Distance-2,7°	06	38	47 39 21
5		iP	14	07	37,5	20		eiPKP 34,0S;179,2W;Kermadec I. region h-117 Km.	10	18	17
6		eiP eiPP ePPP eS 56,1N;153,7W;Kodiak Is. Alaska M-6 1/4	15	50	19 53 49 55 37 16 01 34	21		eP ei(S)	12	50	54 53 03
7		iPKP 15,8S;179,2E;Fiji Is.	19	00	52	22		iP i(S) Small.	13	03	34,5 56
8		iPKP 16,1S;179,6E; Fiji Is.	20	21	36,5	23		iP iS Small, Distance-9,5°	13	15	17 17 13
9	2	iP ePPP 28,7N;98,3E; Tibet	13	55	38,5 58 43	24		iP Small.	13	53	33
10		i(P)	16	06	58	25		eiPKP ePP 20,4S;169,4E;Loya lty I. reg. M-6 1/4-6 1/2	14	22	22 25 08
11		iPP 31,9S68,9W;San Juan Prov. Argentina	18	52	30	26		iP ePP 41,9N;142,5E; Near South coast of Hokkaido, Japan h-109 Km.	15	36	48,5 39 53
12		eiP 52N;171,4W;Fox Is. Aleutian Is M-5 3/4	22	16	02	27	7	iP ePP e(S) 37,2S;16,1W;Tristan Da Cunha region	01	30	07 33 36 40 37
13	3	eiP iS L Distance-5,1°	00	02	34,5 03 33 04 20	28		eP	03	02	39
14		eiPKP ePKP 20,9S;174,4W; Tonga Is.	06	01	31,5 02 16,5	29		iP	04	02	58,5
15		iP i i(S)	11	12	17 52 13 10						

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No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
30	7	eP ei	10	18	32 54	52	10	iP iPP iPPP eS	15	55	08 14 14 14
31		iP 44,3N;149,1E;Kurile Is. h-89Km.	11	57	21			6,6N;93,8E;Nicobar Is.	16	03	14
32		iP	14	11	01	53	11	iPKP 33,5S;179,1W;Kermadec Is. region.	11	11	39,5
33		i	14	28	24						
34	8	iP iPcP 6,2N;126,2E;Near E. Coast,Mindano.	11	20	27 21 12,5	54		i(S) ei i	12	12	31 24 10
35		iP iS Small, Local.	13	58	17 25	55	12	iP iS Small, Distance 35Km.	00	11	44,5 50
36		iP	14	34	31	56		iP 60,8N;151,9W;S. Alaska h-230KM.	02	57	12
37		iP 52,3;158,8E. Kamchatka.	14	44	23,5	57		i(P) ei(S)	03	18	47 08
38		iP 45,4N;149,8E.Kurile Is. h-94Km.	23	25	03	58	12	iP eiPP 27,3N;128,4E;Ryukyu Is. M-64/2-63/4	12	29	10,5 12
39	9	iP i(S) Small. Local	10	06	59 07 03,5	59		iP iS Small, local.	13	57	10 13
40		iP 36,4N;71,6E Hindu Kush h-236Km.	10	11	18	60		iP Small, local	13	59	13
41		eiP eiPP 71,5N;2,4W;Jan Mayen Is. region	16	27	33 29 13	61		iP ipP 7,0S;117,0E;Java Sea h-611Km.	16	13	50 02
42		iP	19	24	30						
43		iP iPP 71,7N;1,3W;Jan Mayen Is. region	20	12	49 14 34	62		e	18	44	08
44		iP	22	58	32	63	13	iP	13	53	13
45	10	iP iS 34,4N;26,4E;Crete	00	21	05 22 30,5	64		iP Small, local.	14	12	36
46		iP iS Distance 7,1°	00	41	30 42 56	65		iP	14	48	46
47		eiP eiS Distance - 7,6°	01	20	13 21 41,5	66		iP i(S) Small, local.	15	46	51 01
48		eiP	02	09	04	67		iP iS Small, local	16	06	46 54
49		iP	10	05	49	68		iP iS Small, Distance-6,9°	23	33	09 30
50		iP ipP iPP 4,0N;122,6E;Celebes Sea h-629Km.	10	56	31 58 50 11 00 04	68	14	iP 16,9N;122,3E;Luzon, P.I.	00	46	29
51		e(P)	11	25	03	70		eiPKP ePP 35,1S;106,0W; S. Pacific Ocean.	05	16	57 56
						71		eP e	18	36	32,5 03

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No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
72	14	e(P) i(S)	22	49	48 5 51 43,5	93	20	eiPKP	01	01	32
											29,8S;177,9W;Kermadec I. h-493
73		iPKP	23	38	34	94		iPKP	03	24	28
											36,9S;177,2E;off N.coast of North Is. New Zealand h-91Km.
74	15	iP iS	14	14	48 15 50	95		iPKP	03	55	27
											28,2S;177,9W;Kermadec Is. h-471Km.
											Small, local Distance-5,2°
75		iP	16	58	41	96	21	iP	11	57	32
											Very small.
76		iP	18	10	19	97		iP	12	02	47
											21,4N;142,9E.Volcano Is. reg. h-361 Km.
77	16	eP e(S)	01	21	50 24 17	98		iP	16	19	45
											26,5N;124,8E; East China Sea h-207Km
78		iP iS	01	29	40 30 54	99		eiP i(S)	23	08	07 11 05
											31,9N;50,4E; Iran h-84Km.
											Distance 5,4°
79		eP	04	06	23	100	22	iP iPP eS L	05	45	11,5 46 36 50 42 56 29
											3,4S;29,1E;Congo
80		iP	12	26	50	101		iP iPPP eS L	09	12	34 14 06 18 06 20 42
											Small, local
81		e	18	19	45						3,3S;29,3E;Congo M-6 ¹ / ₄ -6 ¹ / ₂
82	17	iP	08	05	18	102		iP i M	09	21	56 24 37
											49,3N;155,4E;Kurile Is.
											M-6
83		iP iS M	08	17	59 28 16 59 26	103		e(P)	21	53	28
											2,8S;29,8E;Congo
84		iPKP	20	16	06	104		iP	23	00	22
											51,5N;168,8W;Fox I. Aleutian Is.
											20,9S;174,5W;Tonga I. h-281Km M-6
85		eP i	23	25	30 26 04	105	23	iP	00	32	52
											20,2N;56,7W;Atlantic Ocean h-171Km.
											Small
86	18	iP iPP	09	53	55 57 48	106		eP iS	04	54	32 55 55
											Distance-7°
											6,8S;129,2E;Banda Sea h-83
87		eiP iS	16	13	48 14 22	107		iP	05	29	35
											27,6N;96,2E;India h-81Km.
											Small, Distance - 2,7°
88		eiP i	18	56	21 57 10,5	108		eP iS	05	42	51 43 45
											Distance-4,4°
89	19	ei ei	01	12	06 15 32	109		e(P) e(S)	14	13	32 15 23
											Distance-9,5°
90		iP ipP eS	03	51	33,5 47 04 01 21	110		eiP e(S) L	18	07	51 10 48 12 45
											15,5N;120,0E;Luzon I. h-97
91		eP	04	10	50	111		iP iS	20	19	57 21 42,5
											Distance-9,5°
											15,5N;120,0E;Near W. coast of Luzon
92		e(PKP) e	19	15	55 30 46	112		ePKP	23	22	15
											22,2S;174,8W;Tonga I. M-53/4

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No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
113	24	iP iS Distance-7,8°	11	08 09	31,5 56	128	27	iP iS Distance-6,2°	17	05 07	57 11
114		eiPKP 41,6S;179,3W;North Is. N.Z. region.	11	26	26	129		eP ePP 14,4N;145,8E;Mariana I. h-109Km.	18	49 53	26 35
115		iPKP 12,4S;166,7E;Santa Cruz Is.	14	10	44	130	28	iP iS Distance-6,1°	02	18 19	10 22
116		eP i(S)	21	27 30	49 49	131		iP iS Distance-3,3°	17	11 11	10 51
117		iP iS Small, Distance-7°	22	31 32	25 48	132		i(P)	20	50	39
118		iP Small, local	23	45	05	133		iP ei(S)	22	27 29	05 41
119	25	iP IS Distance-8,8°	03	08 10	24 04	134	29	e e e	06	39 45 46	45 34 55
120		iP iS L 28,2N;53,2E; S. Iran h-53Km.	08	40 43 45	10 23 32	135		iP iS Distance-6,4°	10	49 50	24,5 41
121		iP Small, local.	14	21	04	136		iP ipP iPP eS	11	31 33 35 42	33 13 21 32
122		iPKP 17,3S173,4W;Tonga I. region h-132Km.	15	59	12			18,9N;144,7E; Mariana Is. h-470Km. M-6-6/2			
123	26	iP	01	19	07	137	30	e(P) ePKP 21,0S;174,6W; Tonga Is.	01	56 58	15 25
124		iP i	03	50 52	22 33	138		iP eiS	03	00 02	48 17
125		iP 32,4N;131,7E;Near coast of Kyushu.	11	48	24						
126		iPKP 15,6S;173,4W; moa I. region.	21	30	07						
127	27	e(P) ei(S) (L)		25 23 01	29 56 12						

Note:

Epicentral Data from U.S.C.G.S.

E. Arieh

Seismological Section

57.7.

State of Israel
Ministry of Development
Geological Survey
Division of Quaternary & Recent Geology
Seismological Section
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JERUSALEM PROVISIONAL READINGS
BULLETIN No. 77
October 1960.

No.	Date	Phase	G. M. T.			No.	Date	Phase	G. M. T.		
1	1	iP ePP 52.2N; 172.6W. Fox Is. Alentian Is M= 6-6 1/2	16	24	10	14	5	iP ei e	02	02	59 11.5 56
2		iP iS 35.4W; 26.2E; near Crete	05	32	39	15		iP	04	01	57
3		iP	05	40	36	16		e(P) i(PP) ei(S)	15	38	07 36 08
4		iP 6.1N; 124.5E. Mindano P. Is. H = 544 kms.	06	39	21	17		i(P)	21	27	06
5	2	iP iPcP 233N; 94.6E. Burma	05	10	04	18	6	iP ePP 52.2N; 107.2E. Lake Baikal region	16	28	45 48
6		iP iS Small; Distance = 7.2°	00	06	33	19		iP iPcP iPPP	20	04	47 02 40
7		eP ipP 18.6N; 94.9E. Burma h=104 km.	18	17	39	20		58.2N; 31.6W. N. Atlantic Ocean			
8		iP i	23	14	18	21	7	iP eiPP 58.1N; 31.9W. N. Atlantic Ocean M = 4 1/2 - 4 3/4	20	34	15 19
9	3	eP 29.8N; 68.2E. West Pakistan	00	55	09	22		iP iS Small; local	11	26	52 57
10		eP i(S) Small	05	11	49	23		iP iPP iPPP 7.4S; 130.7E. Banda Sea M = 6 1/2 - 7	15	32	08.5 00 23
11		iP iS Small; Distance = 9°	01	40	54	24		e ei(S)	18	52	55 42
12		iP eS 057S; 103.0E. Off coast of Sumatra.	20	02	26	25		e(P)	19	56	39
13	5	i(P)	00	47	14	26		iPKP 20.4S; 113.7W. Easter Is. region M = 5 1/4 - 5 1/2 h=203 Kms.	20	21	07

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
27	8	eiPP 16.7N; 97.9W Oaxaca, Mexico M = 4 3/4 - 5.	02	11	18	42	13	iPPP ei eS L	15	10	15 14 12 25
28		iP ipP iS 40.0N; 129.7E. Sea of Japan M=6 1/4 - 6 3/4 h= 608 kms.	06	03	38.5 38 18	43	14	iP i 10.1N; 125.8E. Near east coast of Leyte P.I.	01	10	45 40
29		i i	06	31	01 43	44	eP	12	27	55	
30		ei	09	41	35	45	4.7S; 103.1E. Near east of Sumatra. h _r = 159 kms.	13	25	00	
30a		ePKP 35.9S; 176.9E. Near coast of North Is. N.Z. h=176 kms.	17	53	41	46	iP iPP	21	32	24 04	
31		iP iPcP 7.9N; 92.9E. Nicobar Is.	20	50	01 47	47	iP iS	23	05	03 59	
32	9	i	05	05	52	48	51.7N; 172.1W. Fox Is. Alentina Is. M = 6 1/2.	02	03	31 40	
33		iP iPP iPPP eiS 40.8N; 141.2E. Near coast of North Houshu, Japan. M=6 - 6 1/4 h = 155 kms.	09	12	43.5 47 39 44	49	iP iS Small, distance	04	04	10 05	4.5°
34		EPKP 15.1S; 174.0W. Samoa Is. region h = 129 kms.	10	10	54.5	50	iP iS Small, distance	11	41	53	
35	10	eiP 47N; 153.5E. Rynkyn Is.	16	28	28.5	51	23.1N; 123.4E. off coast of Formosa.	18	08	51	
36		iP	21	57	16	52	15.1S; 173.2W. Samoa Is. region	09	09	58	
37	11	eP 16.1S; 67.1E. Mascarene Is. region, h = 100 kms.	18	36	14	53	Small, Distance = 5.7°	18	08	51	
38	12	ePKP 15.1S; 173.2W. Samoa Is. region	09	31	08	54	iP iS Small, Distance = 1.3°	09	39	49 07	
39		eiP iS Small, Distance = 1.3°	10	39	49 07	55	17	05	20	31 51	
40		iP i(S) Small, Local.	12	09	07 12	56	eP 30.7N; 40.4. Atlantic Ocean	19	12	49	
41	13	iP iS 45.2N; 25.8E Romania.	02	24	58 57						
42.		iP iPP i	15	04	55 03 35						

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
57	18	iPKP 25.3S; 178.4E. S. of Fiji Is. h = 636 kms.	00	19	36	75	26	iP 52.4N; 160.1E. Near coast of Kamchatka.	02	00	30
58		iP 52.5N; 170.2W. Fox Is., Alentian Is. M = 4 3/4 - 5.	00	35	03	76		iP i	08	42	08 02
59		iP iS Distance 10°	18	57	36	77		iP iS Small, distance = 2.5°	13	01	03 35
60	19	iP iS Small, Local.	01	11	13.5 20	78		eP 40.3N; 20.8E Greece	22	58	47
61		iP iS moderate, distance = 2.4°	01	35 (55)	36 (25)	79	27	iPKP eiPKP 15.2S; 175.0W. Samoa Is. region h = 253 Kms.	22	47	12 42
62		iP iS moderate, distance 1 = 1.8°	01	48 (51)	49 (15)	80	28	iP iPP eS 71.3N; 8.6W. Jan-Mayen Is. M = 5 1/2 - 6 3/4.	04	27	10 54 00
63		eiP iS Distance = 12°	04	46.0	33 45	81		iP iPP 71.3N; 8.4W. Han-Mayen Is.	07	55	02 40
64	20	iP iS Distance = 9°	04	26	03 46	82		iP ipP iPP 52.0N; 157.4E. Kamchatka.	13	30	31 16 42
65	22	iPKP iPP 10.3S; 161.2E. Solomon Is. reg. M = 6 - 7.	08	40	55 18	83		ei	19	11	31
66	23	e(P) e(S)	18	54	2(5) 5(5)	84		iP iPP eiS 34.4N; 141.1E. Near coast of Houshu.	22	41	53 10 27
67		eP e(S)	19	24	25 30	85	29	eiP iS Distance = 16°	07	42	21 08
68		e(S)	22	19	07	86		iPKP 15.8S; 172.9W. Samoa Is. region. M = 5 3/4 - 5 1/2.	09	57	23
69	24	e	04	17	12	87		iP iS 36.1N; 17.8E. East of Sicily, Mediterranean Sea.	20	47	18 34
70		eiPKP 15.0S; 167.4E. New Hebrides Is. region. h = 145 kms.	05	31	10	88		iP iS Local, Felt at Nablus	21	44	54 00
71	25	iPKP 20.0S; 174.6W. Tonga Is. region	01	26	11	89		iP iS Local.	22	13	21 33
72		iP iS Distance = 8°	02	30	51 25						
73		iPKP 19.3S; 175.8W. Tonga Is. region h = 254 kms.	22	21	01						
74	26	iP iS Moderate, distance = 1.8°	00	39	04 22						

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No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
90	29	iP 49.8N; 156E Kamchatka.	23	54	39	95	31	iP iS Small, local	20	31	55 01.5
91	30	iP	11	21	50	96		iP iS Small, local.	22	49	26 32
92		eiPP eiPPP 23.3S 70.3W; Near east of C Chile M=6 3/4	12	34	(14) 16	97		iP 54.7N; 161.8. Near coast of Kamchatka	23	56	37
93		iPKP iPP 22.8S 68.0W; Chile Bolivia Border M=6 3/4	21	51	22 17						
94		iP i iS	21	57	00 44 59						

 Note: Epicentral data from
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November 1960.

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
1	1	iP iPP 11.1S; 12.7W. Ascension Is. region M = 5.	06	25	58 28 18	13	8	iPKP 306S; 177.5W. Kermadec Is. Region.	00	16	29
2		iPKP iPP iPPP iPS 38.5S; 74.4W. Near coast of Chile. h=97 kms; M = 6 1/2 - 7 1/2.	09	04	55 06 34 09 15 16 33	14		iP 41.1N; 105.5E. China-Mongolia boarder.	00	30	00
3		iP 50.1N.; 153.9E. Near coast of Kamchatka, h = 162 kms	19	18	31	15		iP 45.2N; 149.8E Kurille Is.	05	34	38.5
4		iP Small, Local.	22	42	06	16		iP 45.2N; 149.7E. Kurile Is.	05	39	51
5	2	eiP Small, Local	02	11	21	17	9	eP iPP 60.7S; 24.8W. Sandwich Is. M = 6 1/4 - 6 1/2.	03	32	08 36 24
6		iPKP iPP 10.9S; 164.9E. Santa Cruz Is.	17	34	00 36 15	18		iP eS 32.7N; 103.4E. Szechwan Province China. M= 6 1/4 - 6 1/2.	10	53	29 11 01 32
7	3	iPKP 22.1S; 175.1W. Tonga Is. region.	03	02	52.5	19		eiPKP 30.7S; 177.1W. Kermadec Is. region.	19	52	33
8	4	iP iS distance = 2.2°	14	03	48 04 17	20		eiPP ePPP 23.2S; 70.6W. Near coast of Chile.	20	25	54 28 22
9	5	iP 30.5N; 130.9E. Kyushu, Japan.	01	03	39	21	10	eiP 30.2N; 40.4W. North Atlantic Ocean. M = 5	05	42	07
10		iP iS 39.2N; 20.5E. Greece M=5.	20	24	08 26 37	22		iP Small, local	08	58	57
11	6	iP eiPP M 53.ON; 159.8E. Near east coast of Ramchatka M = 5 1/2 - 6 1/4.	04	50	42 53 55 05 35	23		iP iPP 2.6S; 139.4E. Near coast of New Guinea, M = 6 3/4.	14	58	48 15 02 25
12	7	iP iS Small, Local	19	10	10 15	24		iP iS distance = 8°	18	42	37 44 11
						25		iP Small, local.	23	41	04

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
26	11	iP iS Local.	02	00	27 33	42	17	iP iS	16	55	15 18
27		iP iS 39.5N; 21.1E. Albania-Greece boarder.	05	34	45 15	43		iP is small	19	45	20 24
28		iPKP 19.6S; 179.1W. Fiji Is. region h = 707 kms.	06	33	14.5	44		iP iS	20	20	25.5 28
29		iP 6.5N; 94.4E. Nicobar Is.	22	32	32	45		iP	20	29	45
30		iP 53.2N; 159.6E. Near east coast of Kamachatka.	22	54	58	46		iP iS	20 31	31	56 00
31	13	iP iPP e(S) 1.4N; 127.2E. Mollicca Passage.	06	50	07.5 46 28	47		iP iS	22	14	43 47
32		iP iPP eiPPP eS iPS 51.1N; 168.8W. Fox Is. Alentian Is. M = 6 3/4 - 7 1/4.	09	33	33.5 47 49 44 22	48		iP iS	22	35	48 51.5
33	14	iP i(S)	14	03	05.5 18	49		iP	23	02	23
34		iPKP 20.5S; 177.7W. Fiji Is. region h = 536 kms.	18	12	16.5	50		iP	23	09	10.5
35	15	ePKP L 62.5S; 161.7W. Antarctic Ocean South east of N.Z. M = 5 1/2 - 5 3/4.	06	43	09 -	51		iS iP	23 09	12	02 09
36		iP iS Small, local	18	05	17 24	52	18	iP i(S)	00	12	52 55
37	16	i	13	58	43	53		iP iP iP iS	00 00 00	18 21 22	33 49 58
38		iP 38.N; 89.5E. Sinking Prov. China.	23	08	03.5	54		iP iS	00	22	58
39	17	e Nos. 40 - 68 a sequence of local shocks.	02	27	52	55		iP iS	00	23	02 02
40		iP i(S)	16	29	50 54	56	18	iP iS	00	48	09 12
41		iP local	16	39	24	57		iP	00	54	41
						58		iP	01	12	44
						59		iP	01	22	09
						60		iP	01	42	04
						61		iP	01	46	33.5
						62		iP	02	00	03
						63		ei(P)	02	10	15
						64		iP	02	14	47
						65		iP	02	49	17
						66		iP	03	10	19
						67		iS			23
						67		e	03	12	03
						68		iP	03	13	51
						69		iP eiS	06	05 06	10 (22)
											35.0N; 28.6E. East of Crete, Mediterranean Sea.
						70		iP	15	36	42.5
											6.3S; 130 E. Banda Sea
						71		iP iS	23	58	03 07
						72	19	iP local	00	00	52
						73		iP local	00	01	04
						74		iP iS	00	09	22 26
											Felt at Jericho
						75		e local	00	23	52

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
76	19	iP local	01	04	10	90	23	iP 4.6N; 125.8E. Near Mindano, P. Is. h = 143 kms.	17	04	54
77		iP	18	42	50	91		ePKP 24.5S; 176.4W. South of Tonga Is. region. h = 171 kms.	17	48	03
78		i i e masked by microseisms	19	33 34 36	18 36 58	92		iPKP 24.5S; 176.3W; South of Tonga Is. region.	18	16	33
79	20	ePKP eiPP eiPKP M 6.8S; 80.7W. Near coast of Peru; 2 killed and extensive property damage from seismic Sea waves, h = 93 kms. M = 6 1/2 - 6 3/4.	22	20 22 31 23	58 40 38 23	93		ePKP 24.1S; 175.7W. South of Tonga Is. region.	20	31	02
80		iP local	23	39	52	94		iPKP 22.1S; 179.5W. South of Fiji Is. region. h = 631 kms.	21	33	10
81	21	i	09	59	06	95		eiP ipP 13.1N; 120.2E. Near coast of Mindano. P. Is. h = 89 kms.	23	27	36 43.5
82	22	iPKP iPKS ePP 19.2S; 173.1W. Tonga Is. region	03	51 55 56	51 32 35	96	24	ePKP eiPP 4.6S; 153.0E. New Britain region. h = 87 kms. M = 6 1/4	05	08 09	54 58
83		iPKP 19.7S; 172.6W. Tonga Is. region	04	05	17	97		eiPKP The following Phases were omitted because of troubles with the seismeter. 24.2S; 176.1W. South of Tonga Is. region. M = 7 - 7 1/2.	07	12	33
84		iP iPiP iPP ePPP eiS 35.9S; 52.3E. Indian Ocean; north of Crozet Is. M = 6 3/4.	06	32 33 35 37 42	57 02 28.5 13 (37)	98		iP local	14	15	31
85		iP 53.0N; 159.4E. Near east coast of Kamchatka.	07	21	41	99		ei	15	04	51
86		iPKP iPP ePPP 40.0S; 74.3W. Near coast of southern Chile. h = 107 kms. M = 5 1/2 - 6 1/2.	12	47 49 51	51 28 49	100		ei(P) i(S)	20 21	59 00	02 30
87		i	14	16	28.5	101	25	ei	01	07	38
88		eP 7.3N; 95.7E. Nicobar Is.	18	01	48	102		iP eiPP eiPP eiS 38N; 140.5E. Honshu, Japan h = 157 kms.	22	06 09 16	22 46 29 15
89	23	ePKP iPKP2 eiPP eiPPP 24.2S; 176.1W. South of Tonga Is. region. M = 6 3/4 - 7.	14	32 36 39	15 25 22 45	103	26	ei	10	43	40
						104		eiPKP 24.3S; 175.5W. South of Tonga Is. region.	21	55	36
						105	27	e	20	59	-

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No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
106	28	iP iS	05	14	12	110	29	ei	22	55	52
		36.2N; 31.1E. Near coast of Turkey.		15	15	111	30	i ei	01	39	41 28
107		iP iS	16	56	25.5	112		ei(P) e	10	14	22 10
		Small, local			29						
108		ei	21	23	37.5						
109	29	iP	14	18	47						
		26.5N; 126.1E. Ryukyu Is. h = 147 kms.									

Note: Epicentral data from U.S.C.G.S.

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JERUSALEM PROVISIONAL READINGS
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No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
1	1	ei(P) ei(S)	00	13 16	42 41	14	3	e(P) e e	22 22 30	19 13 41	27 13 41
2		iP iS 38.1N; 30.6E Western Turkey h = 137 km.	04	04 05	23 47	15		e(P)	23	18	55
3		ePKP	11	00	28	16	4	eP 1.1N; 120.6E; Northern Celebes	16	00	13
4		i	13	27	39	17		iP 32.5N; 141.6E Off coast of Honshu, Japan. h = 106 km	16	33	09
5		i(P) i(S)	14	11 12	45 15	18		e(P) e	21 22	58 00	28 51
6		eP iS	22	01 03	52 32.5	19	5	iPKP ipPKP eiPP 21.2S; 179.0W Fiji Is. region h = 633 km	00 16 18	14 45 42.5	19 45 42.5
7		eP eS	23	26 28	56 42	20		iP e(S) 43.0N; 104.3E Outer Mongolia	08 55	48 03	16 03
8	2	eiPKP iPP ePPP 24.5S; 69.9W Near coast of Chile M = 6 3/4 - 7 1/4	09	29 30 33	32 20 21	21		e 11 07 49	11	07	49
9		iPKP iPP 24.3S; 69.8W Near coast of Chile M = 6 3/4	09	56 57	18 13	22		iPKP 54.3N; 166.2E Near East coast of Kamchatka.	18	19	51
10		eP eiS 38.5N; 40.3E Eastern Turkey h = 12.7 km	19	33 35	23 46	23	5	iP 35.7N; 6.5W, Straits of Gibraltar.	21	28	51
11	3	e	01	15	07	24	6	iP 42.9N; 104.5E. Outer Mongolia	03	44	59
12		iP eiPP eiS 42.8N; 104.5E Outer Mongolia M = 6 1/2 - 7	04	33 35 41	46 19 18	25		eP eiPKP ePP ePS 21.4S; 6.9W N. Chile, M = 5 1/4 - 5 1/2.	09 14 15 25	11 50 38 38	03 50 38 38
13		iP 43.1N; 104.3E Outer Mongolia	18	06	01	26		ePKP 8.5N; 82.7W. Near coast of Panama. h = 116 km. M = 6	09	15	04

No.	Date	Phase	G.	M.	T.	No.	Date	Phase	G.	M.	T.
27	6	iPKP 20.5S; 178.8W. Fiji Is. region h = 616 kms.	12	36	21	43	15	ei(P)	14	07	51
						44	16	i(P) i(S)	16	53 57	33 14
28		iP 2.6S; 101.5E Sumatra.	21	45	29	45		eiP	18	30	35
29	7	eiPKP 35.7S; 179.6W. North Is. N.Z. region	03	19	23			43.8N; 28.9W. N. Atlantic Ocean.			
						46	17	iP iS	01	58	02 44
30	8	eiPKP 35.8S; 179.6W. North Is. N.Z. region	01	21	13			Local, Small			
						47		iP ipP eS	10	48 49 58	57 59 47
31		iPKP epPKP 21.8S; 179.4W. Fiji Is. region h = 685 km.	01	42 45	51 18			6.4S; 109.3E. Java Sea. h = 295 km.			
						48		iP	16	57	16
32	9	e	23	23	19			47.3N; 153.6E Kurile Is.			
33	10	ei(P) i	05	29 31	26 48	49		iP	21	08	51.5
34		eiPKP 15.0S; 172.3W. Samoa Is. region.	13	52	12	50	18	e(P)	01	22	28
							18	From	13	30	
							20	Till	08	30	
								Seismometer out of action			
35		iP ipP 1.5N; 124.3E Celebes Sea. h = 292 km.	14	07 08	41 44	51	21	iP ipP ePP	14	52 53 55	31.5 03 37
								61.6N; 152.3W. Alaska h = 169 km. M = 5 3/4.			
36	11	eiPKP eiPP 22.1S; 171.4E Loyalty Is. region. h = 144 kms.	00	20 23	28 57	52	22	iPKP eipPKP	02	44 46	41 11
								29.8S; 179.6W. Kermadec Is. region. h = 379 km.			
37		iPKP iPP 15.7S; 166.9E. New Hebrides Is. region. h = 133 km. M = 6 1/4 - 6 1/2	19	12 14	17.5 47	53		iP eiPP eiPPP	03	12 14 15	18 39 27
	12	From till Seismometer out of action	10 18	00 00		54		ePKP	14	32	15
								27.8S; 176.1 N. Kermadec Is. region.			
39	13	ei	06	01	43						
40		ePKP iPP eiPPP 52.1S; 160.9E. Macquarie Is. M = 7 - 7 1/4.	07	55 58 01	57 23 23	55		ePKP ePP	21	20 22	43 11
								6.8S; 155.3E Solomon Is. h = 469 km. M = 5 1/2.			
						56		e	22	24	30
41		i(P)	09	52	56	57	23	iP	09	53	03
								3.3S; 101.9E Near coast of sumatra h = 134 km			
42	15	iP iPP eS 2.9N; 12.6E Molucca Passage M = 6 3/4	00	04 07 14	20.5 41 4(2)	58		iP	11	00	32
								8.2N; 125.7 E. Mindano, P. Is.			

No.	Date	Phase	G. M. T.	No.	Date	Phase	G. M. T.
59	23	iPKP iPKP 27.8S; 177.2W. Armadec Is. region. h = 261 km.	19 26 36 27 28	64	26	iP 33.8N; 136.2E. Near South coast of Honshu, Japan h = 109 km.	01 57 10
60		iP e	19 42 45 45 46	65	28	i(P)	
61	24	i	21 25 05	66		iP iS	
62	25	iP 54.6N; 161.6E. Near East coast of Kamchatka.	20 39 56	67	29	iP iS 25.3N; Medite	
63	26	iPKP 23.7S; 176.9W. Tonga Is. region.	01 16 06	68	31	iPKP iPP 43.9S; S. Chi h =	



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N.B.:

No. 38 (omitted)

38 11 eIPKP 19 15 53
48.9N; 129.7W. Vancouver Is.
region. h = 93 km.