

STATE OF ISRAEL ,  
 MINISTRY OF DEVELOPMENT ,  
 GEOLOGICAL SURVEY ,  
 GEOMORPHOLOGY & SEISMOLOGY DIVISION ,  
 Hebron Road , Jerusalem , Israel .



JERUSALEM PROVISIONAL READINGS  
 BULLETIN No. 58

JANUARY , FEBRUARY - 1959

ser. no.	Date	Phase	G h	M m	T s	Remarks	ser. no.	Date	Phase	G h	M m	T s	Remarks
1	Jan. 1	iP	02	16	03	D	19	Jan. 9	iP eS	18	57 59	52 05	D v. small
2		ePKP iPP i	07	45 49 50	58 38 52		20	10	iP iS	01	16 17	24 43	D
3		i i!	12	31	31 40	blasts	21		iP iS	01	37 38	27 39	D
4		iP i(s)	15	19	43 48	local	22	11	iP iS	00	40 41	27 08	
5		iP i(s)	15 16	59 00	09 23		23		iP iS	04	29 30	07 26	
6		ei	21	17	01		24	12	i(P) iS	00	31	41 53	local small
7	2	iP iS	11	58 59	39 52		25	13	eiP ePP eiPPP iPPS	01	29 32 35 41	13 43 28 26	C
Was not recording from 2/1-2151 untill 4/1-1340													
8	4	iP (iS)	14	44	36 41	local small	26	14	iP iS	04	28 30	47 06	
9		iP iS	23	16 17	15 29		27		iPKP i	13	36	13 18	
10	5	i(s) i	08 09	29 00	35 02		28	15	iPK1 iPKP2	21	39	21 27	C
11		iPKP i	10	06 09	07 12	D	29	16	eiPKP	00	28	04	
12		iP iS	21	00 01	14 39		30	17	iP iS	02	55 57	47 06	D
13	6	iP i(s)	14	30 31	22 42		31		iP iS	07	55 56	30 43	C
14	7	iP iS iPcP	05	17 20 22	07 24 34	C	32		iP	09	37	13	D
15		iP i(s)	22	23 24	40 59	D	33		eP eS	10	06 07	19 38	v. small
16	8	i	20	01	17		34		iP	20	35 36	21 41	
17	9	iP iS	01 02	57 00	53 00	small	From 18/1-1500 till 21/1-0354 masked by microseisms .						
18		iP iS	18	10 11	36 46	small	seismog. blocked from 21/1-0354 untill 22/1-1525 .						



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Ser. No.	Date	Phase	G h	M m	T s	Remarks	Ser. No.	Date	Phase	G h	M m	T s	Remarks
35	Jan. 24	iP iPP iPPP	05	20	55	D	8	Feb. 10	iP iS	23	08	53	v. small
36		iP iPP eS	20	04	02		9	11	iPKP iPKP2	21	56	41	C D
37	25	iP iS	01	45	03		10	13	i	11	37	38	
38		iP iS	17	22	06	v. small local	11	15	iP e	04	10	05	C
39	26	iP iS	11	40	22	C	12		eP	05	00	30	
40		iP i(S)	16	17	17		13		iP	05	48	47	
41		iP iS	22	41	42	v. small	14	16	i	18	28	22	
42	27	iP eiPP	03	43	43		15	17	iP i ePPS	12	16	28	
43	29	i(P) i(S)	02	50	10		16		iP	13	01	56	
44		iP iPP	23	32	25	C	17	20	i iS	10	50	35	
45	30	iP iPPP iP	20	51	17		18	21	iP i	08	39	22	
1	Feb. 2	iP iS	19	23	04		19	22	iP iS	00	21	08	D small
2	6	iP i(S)	08	56	01	local	20		eIP	02	02	47	
3		iP iS	12	05	01	local small	21		iP	03	38	28	D
4	7	eiPKP iPP iPS iPPS	09	55	30		22		i iS	14	06	32	local
5		iP iS	20	11	25		23	27	i iS	21	08	37	D
6	8	eiP i iPP eS	01	11	25								
7	9	iP i i(S)	21	51	09								

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microseisms

 A - amplitude in microns  
 T - period in seconds

Date	<u>00 h</u>		<u>06 h</u>		<u>12 h</u>		<u>18 h</u>	
	<u>A</u>	<u>T</u>	<u>A</u>	<u>T</u>	<u>A</u>	<u>T</u>	<u>A</u>	<u>T</u>
Jan.								
6	-	-	-	-	0,06	1,5	0,09	1,5
7	0,25	2	0,16	1,4	0,14	1,5	0,2	1,7
8	0,17	1,6	0,1	1,5	0,1	1,5	0,12	1,8
9	0,07	1,6	-	-	-	-	-	-
15	-	-	-	-	0,12	2	0,14	2
18	-	-	-	-	0,06	1,5	0,34	2
19	0,34	2	0,34	2	0,34	2	0,34	2
20	0,34	2	0,34	2	0,34	2	0,34	2
21	0,34	2	0,34	2	0,34	2	0,34	2
28	0,06	1,5	0,09	1,5	0,04	1	0,04	1
29	0,04	1	0,08	1,4	0,09	1,4	0,09	1,4
30	0,13	1,5	0,13	1,5	0,08	1,4	0,11	1,5
31	0,13	1,5	0,13	1,5	0,13	1,5	0,1	1,5
Feb.								
1	0,16	1,8	0,14	1,5	0,16	1,5	0,31	2
2	0,39	2	0,11	1,5	0,1	1,5	0,08	1,3
5	0,08	1,6	0,11	1,5	0,13	1,5	0,1	1,4
6	0,11	1,5	-	-	-	-	-	-
12	-	-	-	-	-	-	0,17	1,7
13	0,22	2	0,14	1,8	0,2	1,8	0,16	1,5
14	0,17	1,6	0,22	1,6	0,2	1,6	0,32	1,8
15	1,0	2,5	0,17	1,5	0,15	1,6	0,15	1,6
16	0,11	1,5	0,11	1,5	0,45	2	0,39	2
17	0,13	1,7	0,2	1,5	0,16	1,8	-	-
18	0,14	1,8	0,07	1,5	-	-	0,04	1
19	0,11	1,4	0,2	1,5	0,18	1,8	0,34	2
20	0,31	2	0,09	1,4	0,13	1,5	0,09	5
23	-	-	-	-	0,34	2	0,26	1,7
24 )	microseismic storm							
25 )	microseismic storm							
26	0,14	1,5	0,2	1,6	0,14	1,5	0,34	2
27	0,14	1,5	0,14	1,5	0,14	1,5	0,16	1,8
28	0,28	2	0,14	1,5	0,14	1,5	0,07	1,4

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## JERUSALEM PROVISIONAL READINGS

BULLETIN No. 59

March 1959

Ser. No.	Date	Phase	G.M.T. h.m.s.	Remarks	Ser. No.	Date	Phase	G.M.T. h.m.s.	Remarks
1	1	iP	00 39 39	D	34		iP	23 34 32	v.s., local
		iPP	41 30		35		i	23 06 20	D
2		i(P)	19 57 40	masked by microseisms	36	21	iP	02 48 30	v.s.
3		i	11 27 05		37		iP	03 19 18	
4	2	i	14 04 30	v.s.			iS	20 51	
5		iP	15 57 34	"	38		iPKP	04 46 03	
6	3	iP	22 25 07	" , Local			i	48 20	
		iS	26 25						not recorded from 22/2-2030 until 23/3-0900.
7		iP	22 41 01	" "	39	24	i	13 36 13	
		iS	07		40		i(P)	14 06 30	
8	8	eiP	11 19 05	" "	41		iP	17 31 02	
		eiS	20 42		42	25	i(P)	00 18 45	D
9		iP	14 08 32		43		iP	06 44 06	
		iS	37				i	46 58	
10		iP	14 52 33				i(S)	48 08	
		c(S)	57 19		44	26	iPKP	02 43 00	
11	9	eP	07 18 13		45		iP	05 37 47	
		iS	19 29				i	38 08	
12		iP	13 56 19		46	27	iP	07 14 44	
13		iP	18 56 40		47		eiP	13 47 40	v.s.
14	11	iP	00 50 42				i(S)	48 32	
15		iP	03 09 56		48		eiP	13 50 37	"
16		i	15 36 52				i(S)	51 31	
17		i(P)	21 28 17	D	49		eP	15 52 04	"
		i(S)	29 37				iS	31	
18	12	ePP	01 46 47	traces	50	28	e	00 44 44	
19		eP	04 59 10		51		e	03 57 09	
		eiS	05 00 27		52		i	06 41 54	
20		i(P)	06 42 11		53		i(PKP)	20 05 48	
		i	44 33				i!PKP	53	
21	13	iP	00 49 22				iPKS	08 08	
		i(S)	51 35		54	29	e(S)	01 03 39	
22		iPKP	16 59 49				i	04 14	
23		eiP	19 09 59		55		i	15 31 25	
		iS	10 21				i(P)	32 23	
24	14	eiP	03 08 02				iS	32 38	
25	17	eiP	04 12 57	v.s.	56	29	iP	11 23 10	v.s., local
		iS	13 24		57		iP	19 20 50	C
26		iP	08 37 33		58		iP	23 09 53	v.s.
		ePP	40 50				iS	10 54	
		es	47 40		59		iP	23 25 22	
		L	57 -		60	30	i	27	
27	18	iP	00 53 32	v.s.			eP	17 18 25	v.s.
		i(S)					i	19 25	
28		eiP	01 14 06				i	21 39	
		iS	15 59		61		i	14 34 36	
29		iP	00 04 38		62	31	e	07 40 35	
30		iP	01 50 31	v.s.	63		i(PKP)	40 40	C
31	19	e	05 35 30				eiP	16 03 42	
		i	22 31 02						
32	20	iP	00 10 20	v.s.					
		iS	27						
33		iP	01 15 10	D					
34		iPKP	02 30 28						

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JERUSALEM PROVISIONAL READINGS

BULLETIN No. 60

April 1959

No.	Date	Phase	G.M.T.			Remarks	No.	Date	Phase	G.M.T.			Remarks
1	1	eiP	00	43	05		21	iPKP	12	03	29	C	
		iPPP		45	23			e		05	15		
		eS		50	10								
2		eiPKP	19	32	39		22	iP	19	04	36		
		i			51			iS		06	07		
3	2	iP	00	37	18		23	9	iP	03	30	05	very small
		iS		38	27				iS		31	58	
4		iP	04	13	26	D	24		iP	06	30	37	D
5		eiP	04	36	50				iPcP		31	01	
		iPP		37	06		25		iIP	15	35	23	local
		iPPP			21		26		eiP	17	17	57	
		iS		39	13		27	10	iPKP	06	06	14	
6		iP	19	33	25	D			iPKP <sub>2</sub>			18	
		eS		43	14				ipPKP		08	31	
7		iP	22	08	20				esFKP		09	33	
8	3	eP	15	54	32		28		iP	13	23	25	v. s., local
		i			52				iS			51	
9		e(P)	17	35	02		29		iP	13	28	51	
		i		36	09		30	11	iP	00	11	35	
10	4	i(P)	00	51	16	very small	31		iP	07	54	16	v. s., local
11		iP	19	17	26	C			iS			42	
12	5	iP	10	53	28	D			i(P)	18	15	49	C
		e(S)		58	07		32	12	e(P)	05	24	28	
13		i(P)	13	41	09		33		eP	10	13	52	
14		i	18	13	29	D	34		iP	11	11	09	D
15		iP	20	12	28	C	35		i	13	54	38	
16		iPKP	21	25	02	C	36		iPKP	21	13	53	D
17	6	iP	14	25	47	C			iPKP <sub>2</sub>		14	08	
		i		25	57				i		15	17	
		eiPP		29	23		37	13	eiP	11	16	15	local, v. s.
		eS		36	47				e(S)		17	35	
		L	15	04	-		38		i	16	03	53	
18	6	i(P)	16	06	45	local blast?	39		iP	18	41	12	C
19	8	iPKP	01	42	27	D	40	14	L	01	40	17	long train
		iPKP <sub>2</sub>			32								surface waves
		ipPKP		44	12		41		iP	13	36	42	very small
20		iPKP	08	21	16	C			iS		41	16	
		iPKP <sub>2</sub>			21	D							



No.	Date	Phase	G.M.T.			Remarks	No.	Date	Phase	G.M.T.			Remarks
42	15	iP eP <sub>c</sub> P	00	27	41 55	D	67	24	iPKP iIPKP <sub>2</sub> iPKS <sub>2</sub> iPPP	18	17	52 59 21 37 25 05	D D
43		iP i	15	46	09 24		68	25	iIP i iIS	00	28	32 15 53	D
44		eiP iS	23	01	23 07	v.s., local	69		iP iIS	01	07	33 57	D
45		eP	19	23	44		70		eiP eiS	13	31	21 11	
46	16	iP	00	11	26		71	26	iP i	05	37	44 54	
47		iPKP	07	46	14		72		i i	06	04	27 33	
48	18	iP iS	03	44	36 31	v.s.	73		iP	14	50	21	
49		i(PP)	06	36	40		74		i(F)	15	53	26	local blast?
50		iP	09	58	53	local? v.s.	75		iIP ipP i! i!	20	52	11 45 13 48	D
51		iP iS	12	55	42 22	local, v.s.	76	27	eP iP iS	13	18	04 31 10	
52		eP eiS	21	51	20 05		77		iP iS	21	18	35 03	
53	19	iP iS	00	14	24 43	D local, s.	78		iP	22	17	23	very small
54		eiP eS	09	01	43 51		79	28	i(F) iP iS	03	58	05 27 48	G.v.s.
55	19	eiP iP <sub>c</sub> P	15	16	29 38		79a		iP iS	04	36	27 48	
56		iP i iS	17	42	00 34 21		80		iP iS	11	36	21 42	v.s., local
57		i e	20	03	00 10		81	29	iP e(S)	00	27	55 31	
58		e(P) e iS	20	25	51 18 29		82		iP	19	33	26	v.s.
59	21	iP	01	46	28	C	83		iP i	21	32	54 29	
60	22	i(P) iP	12	17	33 12	D	84	30	iP i L	02	42	09 31 37	C v.s.
60a		eFKP iPKP <sub>2</sub> iPP <sub>2</sub>	20	46	22 35 25		85		iP iS	15	51	53 56	D local
60b							86						
61		eP eiS	22	42	36 55		87		iP iS	22	46	37 10	D
62	23	eP eiS	00	33	50 44	very small							
63		iP	20	08	12								
64		eP ei	21	46	28 46								
65		iP	22	02	20	D							
66		eP	23	44	55								

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State of Israel  
 Ministry of Development  
 The Geological Survey  
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JERUSALEM PROVISIONAL READINGSBULLETIN No. 61May 1959

No.	Date	Phase	G.M.T.			Remarks	No.	Date	Phase	G.M.T.			Remarks
1	1	iP i(S)	05	53	52	D	25	10	iP	14	22	50	local, v.s.
				55	13		26		iP	15	25	13	local?
2		iP iS	06	55	33		27	11	e L	05	22	57	
				56	58						35	43	
3		ePP ePPP	07	36	32		28		iP i iS	08	41	47	D
				39	28						42	00	
4		eP i(S)	08	27	24		29		iP i(S)	11	40	39	
				30	21							50	
5		i(P)	13	22	40		30		eiP iS	13	08	48	
6	2	iP i(S)	10	08	43	C						52	
				10	02		31		iP iS	15	35	45	
												47	
7	4	iIP iS M	07	28	06	D	32		iP	16	41	12	D
				37	23								
				59	25		33	12	iP e(PP) e(S) L	05	10	11	C
8		iP	15	58	10	local, small					12	13	
9		i(P)	17	27	21						20	03	
10		iP	17	57	50		34		eiPKP iPP eiPS eiPPS	10	05	30	
11		i(P)	23	03	36						06	04	
12	5	e(P) iS	17	53	39						15	38	
				54	09						16	22	
13		iP	16	17	32	local, v.s.	35		eiP eS	19	26	00	
14		e(P) ePP e(S) L	19	16	39	C					27	23	
				19	51		36		iP e(S) L	22	13	11	C
				27	05						23	46	
			20	53	-						42		
15	6	iP	04	18	55	v.s.	37		iP	21	53	37	C
16		eiP	11	31	02	local, v.s.	38	13	iP iS	11	22	20	D
17		i	17	48	06	D						26	
18	7	ePKP	00	22	46		39		iP	08	40	18	D
19		eP	01	48	26		40	14	eP eS	00	58	57	v.s.
20		i i	15	49	32						59	34	
			16	00	27		41		iP	04	41	09	D
21	8	eiP	06	58	43		42		iP iS	06	29	15	C
											30	55	
22		iP ipP	11	47	10	D	43		iIP i(S) i	06	39	10	D
					34						40	52	
23		e	15	41	30						42	50	
24	9	i(PKP)	22	09	32	C	44		iIP	07	05	18	



No.	Date	Phase	G.M.T.		Remarks	No.	Date	Phase	G.M.T.		Remarks
45	14	eiP eS	11	28 48 30 22	v.s.	68	24	iP	04	58 02	
46		i i	15	25 08 32 54		69		iP	11	37 01	
47		i(S)	17	31 28		70		i(P)	13	25 18	
48		iP eiS	21	11 44 18 02	C	71		iP	16	26 35	local?
49	15	e	05	18 36		72		(eP) iPKP ipPKP iPPP	19	32 21 36 34 54 39 45	
50		iP iS	07	27 59 29 23		73	24	iP iS	20	33 35 34 15	
51	16	i(P) i	06	35 05 36 15		74	25	iP	05	22 47	D
52		iP iS	08	20 30 22 10	D	75		iP iS	23	12 46 53	v.s.
was not recording from 16-21 57 till 19-09 35						76	26	iP ipP	04	24 53 25 25	C
53	19	e(P) iPP iPPP iS i M	15	23 34 24 39 25 04 28 42 32 20 36 40	C	77		i(P)	05	40 29	
						77a		i(P)	06	42 04	
						78		iP iS	14	35 30 33	v.s.
54	20	e	01	09 57		79	27	eiP	20	42 37	
55		i(P)	15	30 39		80	28	iP iS	05	44 26 32	v.s.
56		iP iS	16	39 00 40 55		81		iP	15	26 59	
57		iP i!(S) i!	19	47 35 52 02 55 05	D D	82		iP iS	16	19 53 20 24	
58	21	iP iS	01	09 00 10 37	v.s.	83		iP	16	49 07	
59		iP iS	02	37 28 49		84		iP	17	22 59	
60		i(P) i(S)	10	53 26 54 51	v.s.	85		iP iS	21	09 02 10 25	v.s.
61		i(P)	16	31 53	local?	86	29	e iP i L	23	50 13 54 25 57 25	
62		iP iS	19	51 53 54 18		87	30	ei(P) i	05	46 11 48 18	
63	22	i(P) i(S)	07	16 45 17 07		88	31	(eiP) i(S)	02	28 29 29 32	
64		ei	08	40 29	C	89		ePKP e	09	47 09 48 29	
65		iP iS	17	17 04 36		90		iP	12	19 23	C
66		iP iS	18	52 57 53 50		91	31	iP i(S) i	13	04 49 05 40 08 33	
67	23	iP eiS	11	33 30 35 39		92		iP iS	15	21 16 21	

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State of Israel  
Ministry of Development  
The Geological Survey  
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JERUSALEM PROVISIONAL READINGS  
BULLETIN No. 62  
June 1959

No.	Date	Phase	G.M.T.	Remarks	No.	Date	Phase	G.M.T.	Remarks
1	1	iP	19 20 07		27	10	iP	01 02 27	
		iS	55				iS	32	
2		iP	04 08 26		28		i!P	04 18 33	
		iS	10 12				iS	20 23	
3		iP	08 58 46		29		iP	06 44 00	
		iS	09 00 25				iS	45 19	
4	2	i(P)	02 09 07		30		i(P)	09 28 13	
5		iP	02 49 43		31		iP	10 01 54	
6		iPKP	03 43 13		32		i	11 09 17	
		i	41		33	11	iP	00 14 30	C
7		i!PKP	03 51 55				e	16 29	
8		iPKP	04 08 22		34		iP	01 29 31	C
		iPKS	12 06		35		iP	11 45 12	
9		iP	05 09 13				iS	38	
10		iPK	06 01 15		36		iP	18 17 35	
11		iP	08 29 57	D			iS	14 52	
		iS	30 07		37		iP	21 12 38	
12	5	iP	20 11 57				iS	14 52	
		iS	13 44		38	12	iP	01 25 39	
13	6	iP	07 23 29				iS	26 58	
		iS	24 50		39		eiP	08 05 35	
14	7	iP	01 23 28				iS	06 57	
		iS	24 50		40	12	eP	09 02 25	
15		iP	08 28 52				iS	04 42	
		iS	30 07		41		iP	13 08 21	
16		eP	09 09 04				iS	09 41	
		i(S)	17 17		42	13	iP	00 55 56	
17		iP	13 49 43				iS	57 16	
		eS	58 00		43		iP	06 27 28	C
18		iP	17 56 19				iS	28 48	
19		iP	20 50 44		44		i!P	12 02 50	C
20	8	i(P)	06 10 52				i!S	03 34	
21		iP	14 13 50		45		eiP	13 55 10	
		iS	57				iS	56 36	
22		iP	15 12 55		46		i(P)	16 13 51	
		iS	56		47		eP	00 26 37	
23	9	iP	04 38 50				iPKP	30 09	
		iS	40 08				i!PP	31 13	
24		iP	11 23 02		48		iP	16 11 24	
		iS	24 23				i(s)	12 15	
25		iP	12 19 58		49		iP	21 21 46	
26		iP	24 46		50	15	i!(P)	16 15 51	



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No.	Date	Phase	G.M.T	Remarks	No.	Date	Phase	G.M.T.	Remarks
51		i	16 47 59		82		iP	12 44 11	
52		ei	19 26 03				iS	18	
53	16	iP	11 04 30		83		i	14 06 18	
		i(s)	37		84	26	i	04 36 38	
54	17	iP	03 16 34		85		iP	05 44 08	
		iS	17 51		86		iP	13 48 16	
55		iP	06 58 20		87	27	iP	03 13 30	
		iS	59 40				iS	15 00	
56	18	e	07 10 39		88	28	iP	19 56 38	D
57		iP	11 59 27				i	57 03	
		iS	34				ePP	20 00 28	
58		iP	14 02 03				ePPP	02 45	
		iS	12				eS	08 05	
59		e	15 43 47		89	29	i	07 36 37	
		i!P	52				eiP	12 58 38	
		iPP	46 49				iS	59 19	
		eS	53 50		90	30	iPKP	10 43 17	
60	19	i	07 29 48				iPKP <sub>2</sub>	26	
61	20	eP	00 36 15		91		iP	13 17 02	
		iS	37 36				iS	05	
62		eP	14 38 19		92		iP	17 15 31	
		iS	41 44				i	19 02	
63		e(P)	23 21 39						
		e	23 49						
64	21	iP	13 59 54						
		eS	57						
65		i(P)	23 45 39						
66	22	e(P)	08 23 32						
		i	24 07						
67		iPKP	14 26 27	C					
68		i	16 14 49						
69		eiP	18 13 55						
		iS	14 56						
70	23	iP	03 28 45	C					
		iS	29 51						
71		i	13 26 29	D					
72		i(P)	15 00 12						
73		i(P)	15 22 57						
74		iP	20 56 42						
75		i	22 18 50						
76	24	i(P)	06 31 12						
77		iP	16 05 51						
		i(s)	09 56						
78	24	iP	14 19 45						
		i(s)	20 17						
79		iP	14 30 55						
80	25	i	01 40 21						
81		iP	06 55 49						
		iPP	57 44						

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State of Israel  
Ministry of Development  
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Hebron Road  
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Jerusalem Provisional Readings  
Bulletin N. 63

July - August 1959

N	Date	Phase	G.M.T. n.m.s.			N.	Date	Phase	G.M.T. n.m.s.		
1	1	iP e	02 39 41	35 30	D	18		iP	18 35	29	D
2		i	15 36	14		19	12	iPKP	00 43	27	D
3		iP iS	21 28 29	59 50	D	20		iP iS	11 10	26 33	
4	2	iPKP	11 46	25	C	21		iP iS	13 27	20.5 40.5	D
5		iPKP iPKP <sub>2</sub>	11 53	01 05				Felt in Safed with intensity 3 M=2,5; d=160 Km.			
6		i(PKP)	14 34	02	D	22		iP	16 25	36	local v.s.
7		i	14 52	35	C	23		iP iS	16 54 56	32 00	
8	3	ePKP i PKP p	18 14 15	40 13	D	24	13	iP	12 42	02	C
9	4	iPKP i(PKP) p	05 14	01 39	C	25		i	15 43	40	
10	6	iPKP i! e(S)	09 27 28 35	47 28 49		26		iP	16 26	43	local v.s.
11		i!P i!pP iPKP iSKS i i(sS)	09 37 38 41 46 50 51	11 08 39 50 03 18		27	14	iP iS	23 11 12	52 31	C
12		iP	16 17	20	local v.s.	28	15	iP	04 04	11	
13	8	iP	04 12	52		29		iP iS	05 09	44 59	
14	9	iP	16 20	37	local v.s.	30	16	iP iS	01 09 10	51 27	C
15		iPKP ipPKP e(S)	16 23 24 33	52 34 35		31	17	iP iS	19 38 39	12 33	
16	10	iP iS	20 28	15 55	D	32	18	eP e iPP i(S)	04 54 55 58	06 16 25 30	
17	11	iP iPcP e(S)	12 13 14 23	53 09 59		33		iP iPP iS	20 05 08 15	39 42 28	C
						34		e i!	20 32 36	06 03	
						35	July 19	iP	03 52	52	





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No.	Date	Phase	G.M.T. n.m.s.				No.	Date	Phase	G.M.T. n.m.s.			
<u>July</u>													
35		e(PKP) i! i(S)	15	24	02 55 19		60	31	iP i(S)	10	31	18 25	C
37	20	i!P i!	02	52	34 23		61		iP iS	14	30	26 29	
38		iPKP	17	12	22	C	62		eP	19	59	11	
39	21	iPKP	08	02	35	C	63		iPKP iPKP <sub>2</sub>	20 21	59	52 42	
40		iP	15	24	42		<u>August</u>						
41	22	eiP iS	13	23	41 09	local v.s. v.s.	1	1	eP e(S)	00	09	03 11	v.s.
42		iP	19	35	22		2		iP iS	07	41	28 51	s.
43		eiPKP iPP	23	21	10 15		3	4	iPKP i	08	21	02 20	C
44	23	iPKP iPKP <sub>2</sub>	15	16	37 10		4		iP	13	58	39	local v.s.
45	24	eiP iS	07	23	07 57		5	5	i	05	48	51	
46		iP i!(PeP)	16	24	50 27		6		iP eiS	18	55	07 57	v.s.
47	25	eiP iS	08	18	03 27	v.s.	7	7	iP iS	09	39	27 51	s.
48		iP eiS	09	58	35 30	v.s.	8		L	05	49	58	traces
49		iP iS	10	57	07 46	s.	9	8	iP i(PcP) e(S) Lg	01	00	03 06 20 34	
50		iP	19	35	48		10		i(P)	02	57	36	blast?
51		iP ip <sup>P</sup>	21	32	49 12		11	9	iP	03	40	33	local v.s.
52	26	i	02	30	48		12		e(P) e L	04 05	56 02	41 39	
53	26	i	14	12	18					11	25		
54		i(P)	14	21	24	D	13		i(P) i	08	42	35 51	v.s.
55		i	16	54	33		14	10	iP iS	00	37	33 59	C
56		iP i(S)	17	09	40 52		15		iP iS	02	36	58 03	v.s.
57	28	i(P)	17	18	27		16		eP	03	33	13	v.s.
58	30	i	08	22	25		17		iP	04	37	09	v.s.
59		eiP i(S)	12	26	41 56		18		iP	17	46	33	
							19		i iP	23	17	50 56	C





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No.	Date	Phase	G.M.T. n.m.s.				No.	Date	Phase	G.M.T. n.m.s.		
20	11	i	11	42	54		41	23	iP	17	03	09
		not working from	11.8-1505				42		eP	22	28	02
		till	12-8-1500				43	24	iP	17	32	02
21	12	iP	13	39	20	v.s.			i(S)		34	23
		iS			23		44		iPKP	21	49	49
22		iP	23	36	24	D			ePP		51	58
		iS		40	35		45	25	i(P)	16	08	52
		L		41	55		46		eiP	22	29	52
									i		31	11
23	13	iP	13	50	34		47	26	eP	08	40	04
24	14	iP	04	52	11				ePKP		44	10
		i(PoP)			31				iPP			41
25		e(P)	09	39	29	v.s.	48		e(P)	11	05	15
26	15	iP	09	08	48	D	49	27	iS	05	57	32
		iPP		11	50				iS		58	08
		iPPP		13	31		50		iP	14	30	23
		iS		18	45				iS		32	30
		L		38			51	28	i(P)	00	02	35
		M		44	15		52		iP	02	09	30
							53	29	eP	11	47	50
27		ePKP	16	34	23				eiS		50	12
28		eP	18	54	22		54		eiP	13	02	36
29	16	ePKP	01	11	10				iS		04	35
		eiPKS		14	49		55		e(P)	14	58	35
30		eiP	01	32	55		56		iP	17	12	43
31		e(P)	13	35	36				iPP		14	54
		i(S)		41	10				eS		20	58
		L		42	53		57		iP	17	58	50
32		iP	18	44	56				iS	18	00	15
		iS		47	06		58	30	iP	05	43	15
33	17	iP	01	14	22				iS		44	40
		i		21	21		59		eiP	21	57	19
34		iP	01	36	52				i		58	50
		eiS		39	43		60		Lg	22	27	-
35		iP	04	32	39	v.s.			iP	23	02	54
		iS		35	24		61	31	i(P)	22	11	48
		not work ng from	17.8-0441									
		till	20.8-1030									
36	20	i(P)	12	31	34							
37	21	iP	07	23	02							
38		iPKP	08	24	05							
		e		26	10							
		Lg	09	04								
39		i(P)	22	06	09	v.s.						
40	22	eP	23	53	44							

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State of Israel  
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Jerusalem Provisional Readings

Bulletin No. 64

September 1959

No.	Date	Phase	G.M.T. N.M.S.	Remarks	No.	Date	Phase	G.M.T. N.M.S.	Remarks
1	1	iP iS	11 41 19 43 13	D 41 $\frac{1}{2}$ N; 20E; Albania (USGGS)	18	8	iP i(S)	08 56 32 57 41	D(d=650 Km)
2	2	iP	04 20 48		19		i(P) i	19 31 48 32 11	
3		i(P)	04 44 40		20	9	iP	02 02 35	
4		iP	08 16 14	60N; 151W; Kenai Peninsula (USGGS)	21		iP i(S)	13 13 57 14 07	Near east coast of Kamchatka (USGGS) C (d=75 Km)
				From 2/8 - 1921 till 3/8 - 0630 not working due to a damage in a time signal sistem	22	10	iP iS	03 55 05 56 23	C very small d=740 Km
5	3	iP iS	06 40 36 51 00	D 4 $\frac{1}{2}$ S; 123E; Celebes I <sup>3</sup> (USGGS)					From 10/9 - 1130 till 11/9 - 1050 records damaged.
6		i eiP iS	08 48 50 49 09 51 15	d = 10,5 $^{\circ}$	23	12	iP	21 25 53	D; d=29,5 $^{\circ}$ 36N; 71E; h = 200 Km (USGGS)
7		iP iS	20 09 15 36	very small d = 170 Km	24	14	i iPKP i!PKP2 iPKS	14 29 32 29 38 30 13 33 40	C long train D surface waves D; d=157 $^{\circ}$
8	4	iP	18 37 22	C 1S; 24W; Atlantic Ocean (USGGS)					Kermadec Island $\frac{1}{2}$ M = 73/4-8 (USGGS)
9		iP i(S)	23 29 35 30 32	very small	25		i iPKP iPKP2	17 26 07 14 38	C D Kermadec I, aftershock
10	5	iP	01 07 27		26		iPKP	22 43 52	aftershock
11		iP iS	08 56 35 57 59	v.s. d=7,1 $^{\circ}$	27	15	e(P) e	06 18 09 19 34	"
12		iP iS	09 45 27 46 02	v.s. d=2,8 $^{\circ}$			iPKP iPKS	40 23 23	D
13		iP iS	13 28 38 29 16	v.s. d=340Km	28		iPKP iPKP2	06 28 34 46	aftershock
14		i(P)	23 23 46		29		iPKP	06 37 29	"
15	6	iP i	00 40 53 41 15		30		iPKP	08 20 22	D "
				55 $^{\circ}$ N; 126 $\frac{1}{2}$ E; Philippine Is. (USGGS)	31		eiPKP	11 08 53	"
					32		ePKP	12 20 31	"
16	7	iP iS	15 56 59 58 59	d=12 $^{\circ}$	33		iPKP ipPKP iPP	11 24 14 26 32 27 50	D; d=148 $^{\circ}$
17	8	iP iS	02 46 19 26	v.s. d=60Km					21 $\frac{1}{2}$ S; 179 $\frac{1}{2}$ W; Fiji I. Region h = 600; M = 6 $\frac{1}{2}$ (USGGS)



No.	Date	Phase	G.M.T. N.M.S.		Remarks	N.	Date	Phase	G.M.T. N.M.S.		Remarks		
34	15	iP	13	30	48	d = 1400 Km	55	20	iPKP	06	27	41	d = 148°
		i			53				iPKP <sub>2</sub>			54	
		iS		33	05				13 <sup>1</sup> / <sub>2</sub> S; 111 <sup>1</sup> / <sub>2</sub> W;				
35		iP	19	30	29				Pacific Ocean				(USGGS)
36		iPKP	22	54	43	C	56		iP	10	50	41	Small;
		Kermadec Islands				(USGGS)			iS		51	59	d=740 Km.
37	16	iPKP	02	23	35	"							
38		eP	02	54	03		57	21	i	04	32	17	
		iPKP		55	59								
		Kermadec I.					58	23	eiP	03	36	08	Small
													d=880 Km.
39		i!P	05	15	54	d=855 Km			iS		37	40	
		iS		17	23		59		i(P)	10	53	35	C may be
		35 <sup>1</sup> / <sub>2</sub> N; 26E; Near East Coast of Crete				(USGGS)			i		57	28	two seisms?
40		ePKP	16	16	06		60		i(P)	11	02	24	
		Kermadec I.				(USGGS)	61		iP	14	23	45	very small,
41		iP	17	24	53	C, d=51°			eS			49	d=30 Km.
		eS		32	26								
42		eiP	18	01	07		62	25	iP	00	27	15	D; d=86°
		i		08	09				iPcP			32	
43		e	18	28	03				9S; 113 <sup>1</sup> / <sub>2</sub> E; Java				(USGGS)
							63		i	01	59	08	
44	17	iP	03	59	45		64		iP	02	48	37	D
45		i(PKP)	07	30	25				iPP		51	39	
46		iPKP	14	27	57				eiS		58	21	
		Kermadec I.				(USGGS)			22N; 122E; Formosa				
47		iPKP	14	56	12		65	26	eiP	02	25	58	d=560 Km.
		Kermadec I.				(USGGS)			eiS		26	58	
48		iPKP	15	11	52		66		eiP	04	03	25	v.s.
		Kermadec I.				(USGGS)							d=1400 Km
49		i(P)		17	33	23			eS		05	29	
50	18	iP	02	24	43	C	67	27	eiP	22	58	12	
		i		32	49				i		59	15	
									i	23	00	32	
51		e(PP)	12	19	40	d=105°	68	28	ei(PKP)	04	32	36	
		L		53			69		eP	05	15	31	d=1100 Km
		57 <sup>1</sup> / <sub>2</sub> S; 24W; Sandwich I.				(USGGS)			eiS		16	55	
52	19	iP	06	23	26		70		iP	10	17	45	C; d=610Km
53		eiP	16	05	43	d=23°	71	29	iS		18	49	
		iS		10	04				e	15	51	50	
									Kermadec I.				(USGGS)
54		iP	19	08	33				iPKP			57	
		iS		10	01								





No.	Date	Phase	G.M.T. N.M.S.			Remarks
72	29	iPKP Kermadec I.	17	58	29	(USGGS)
73		iP i(S)	10	28	27 30 21	Small
74		iPKP ei(PP)	20	45	25 48 02	18 S; 168 E; New Hebrides Is (USGGS)
75		ei(P)	22	54	36	

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Jerusalem Provisional Readings

Bulletin No. 65

October 1959

No.	Date	Phase	G. M. T.				No.	Date	Phase	G. M. T.			
1	1	iP	03	27	02	D	17	13	iP	15	49	03	
2		eiP iS d = 10°	04	40	44				iS	50	18		
				42	55		18	14	d = 685 Km.				
3		i(P)	16	08	24				iP	01	58	55	D
									iS	00	15		C
									d = 760 Km.				
4	3	iP	20	15	13	C	19		iP	21	19	54	
		42 N; 146 E; Japan				USCGS.			iS			59	
5	4	eP	04	00	25		20	15	iP	06	28	15	D
		iS	04	01	15				iPP	31	39		
6	5	e	18	06	14				iPPP	33	28		
7		iP	18	37	39				eS	38	47		
		83½N; 112½E; Arctic Ocean							L	50	29		
		Magn. 5¾ - 6; USCGS.							M	09	10	30	
8		i(P)	18	43	40				½ N; 120 E; Celebes				
		iS		44	55		21	16	Magn. 6½; USCGS				
9		iP	20	37	41				iP	11	16	08	
		iS		40	28				iS			11	
		41 N; 19.¾ E; Albania BCIS.					22		d = 25 Km.				
10		iP	22	39	55	D			iP	21	33	33	
		iS		41	27				iS			37	
		d = 90 Km.					23	18	d = 30 Km.				
11	7	iP	08	34	18	D			iP	02	58	47	
		iS		37	08				iS		59	07	
		41 N; 19.¾ E; Albania BCIS.					24		iP	13	30	12	
12		e(P)	22	10	32				local v.s.				
		i			55,5		25		iP	14	12	02	
									local v.s.				
13	9	i	02	34	07		26		iP	17	18	48	C
14		i	08	05	19	C			50½ N; 156 E; Off South coast				
									of Camchatka				
									USCGS.				
15	11	iP	09	46	03	D			iP	23	36	51	C
		41½ N; 142 E; Japan				USCGS.	27		i	37	13		
16	12	i(P)	03	32	42	D			iS; 105 E; Sunda Strait •				
		i			54				Deep (h = 150 Km.)				
		L	04	01	-				USCGS.				
							28	19	iPKP	02	32	47	
									25½ S; 177½ W; South of Fiji Islands				
									USCGS.				



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No.	Date	Phase	G. M. T.			No.	Date	Phase	G. M. T.			
29	19	iP	02	59	16	D	46	28	iP	08	38	29
			Kurile Islands						USCGS.			
30		iPKP	08	47	20		47		iP	19	28	08
		ePKS		51	04							
			Kermadec I.						USCGS.			
31		iP	11	46	00	blast?	49		iP	14	34	31
32		iP	14	11	23	D	50		iP	14	39	50
33		iP	16	09	32				i(pP)	41	00	
		eiS		13	34				eS	48	25	
			d = 23°						43N; 131E; China-Korea Border			
									Deep (h = 550 Km.)			
									USCGS.			
34		eiP	19	24	34		51		iP	18	22	43
35	20	iP	21	40	59	C			iS	23	20	
			may be microseisms.						d = 330 Km.			
36	21	eiP	03	34	25		52	30	iP	04	11	15
		eiS		36	14					66N; 136 $\frac{1}{2}$ E; Yakutsk ASSR		
			d = 1250 Km.						USCGS.			
							53		iPKP	07	23	48
37	22	iP	13	45	59				19S; 177 $\frac{1}{2}$ W; Fiji Islands			
		iS		46	62				Deep (h = 450 Km.)			
			d = 25 Km.						USCGS.			
38	23	e(P)	16	58	58		54		iP	20	21	49
		eS		02	42				iS	22	42	
			33 $\frac{1}{2}$ N; 59E; Eastern Iran;				55		iP	22	26	20
			USCGS.									C
39	24	eP	07	08	17		56	31	iPKP	04	46	04
		eiS		10	26				ipPKP		47	48
			d = 1370 Km.						16 $\frac{1}{2}$ S; 178W; Fiji Islands			
									Magn. 6 $\frac{1}{2}$ -6.3/4			
									USCGS.			
40		iP	23	46	37	D	57		eP	05	22	25
		iS		48	41				eiS	24	09	
			41 $\frac{1}{2}$ N; 70 E; Kazaks SSR				58		e(PKP)	17	07	30
			USCGS.									
41	25	e(P)	07	00	08							
			Atlantic Ocean, north of Asorea									
			USCGS.									
42		eiP	16	00	07							
		iS		02	11							
		L		02	41							
			39N; 42E; Turkey									
			12 Killed, many injured									
			USCGS.									
43	26	iP	07	47	37	D						
		ipP			46							
		iPP		51	00							
		eiS		58	09							
			37 $\frac{1}{2}$ N; 142 $\frac{1}{2}$ E; Japan; Magn 6-6 $\frac{1}{2}$ ;									
			Deep (about 60 Km.)									
			USCGS.									
44		iP	21	57	44							
		iS			57							
			d = 90 Km.									
45	27	iP	07	05	12	D						
		ipP		06	14							
		eS		15	32							
		M		47	15							
			45 $\frac{1}{2}$ N; 151E; Kurile Islands									
			Magn. 6 $\frac{1}{4}$ -6 $\frac{1}{2}$ Deep (about 100 Km.)									
			USCGS.									

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 Please note printing errors - Bull No. 64  
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 Kenai Peninsula (instead of Peminsula).  
 U.S.C.G.S. (instead of U.S.G.G.S.).  
 Kermadec I. (instead of Kermadec I.).



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Jerusalem Provisional Readings

Bulletin No. 66

November, 1959

No.	Date	Phase	G. M. T. h.m.s.	No.	Date	Phase	G. M. T. h.m.s.
1	1	iP iS d = 680 Km.	15 56 25 D 37 57	15	8	iP eS 44°N; 140°1/2E; Near west coast of Hokkaido-Japan; M = 6 1/2 (Pas)	14 07 02 17 41
2	2	eP eiPKP 5°1/2S; 151°1/2 E Deep (h = 60 Km) M = 6 3/4(Pas)	20 18 17 22 11	16	9	eiP eiS d = 10°	12 19 31 21 11
3		iPKP 23°1/2 S; 175°1/2 W; I. region	22 13 03 C Tonga	17		e	20 07 43
4	3	iP 3°1/2 W; 126°1/2 E, Molluca Pas.	00 45 23 D	18	10	iP iS d = 380 Km. small	02 31 47 32 29
5		iPKP 23°1/2 S, 175°1/2 W, Tonga I. region.	09 24 57	19		iP iS d = 150 Km M = 2 Felt at upper gallilee with intensity 3.	11 31 23 D 42
6		iP iPP eS 10°1/2 S; 111 E, South of Java	09 52 38 C 55 52	20		iP	18 06 05
7		e ei	21 21 11 22 10	21		iP local small	20 12 03
8	5	i	06 38 15	22		iP local, small	20 23 35
9	6	ei(S)	10 27 25	23		iP iPP 36°N; 89°E, Northern Tibet.	21 04 26 C 06 09
10		iPKP 24°S; 174°1/2W, Tonga I. region	12 03 08 C	24		iP iS d = 45 Km, small	21 37 05 11
11	7	iP iS d = 760 Km.	14 36 54 38 14	25	11	i(P) i(S)	03 06 23 07 07
12		eiPKP iPP 23°1/2S; 175°E, Tonga I. region M = 6 1/4 (Pas)	22 36 09 29	26	12	iP iS d = 70 Km; very small	14 33 03 13
13	8	i(P)	02 37 34	27	12	iP iS d = 610 Km, small.	19 08 54 C 09 59
14		iP iS d = 370 Km; very small	11 31 04 43				



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No.	Date	Phase	G. M. T. h. n. s.			No.	Date	Phase	G.M.T. h.m.s.		
28	13	eP i(S) d = 20°	08	52	02	44	22	eiPKP i!PKP ipPKP <sup>2</sup> 21° 1/2 S; 178° 1/2 W; Fiji I. region Deep (h = 550 Km.)	19	53	20 C 24 29
19		iP i(S) aftershock	09	23	30						
				26	19	45	24	iP i(S)	14	28	58 D 26 11
30		iP iS d = 40 Km. very small	13	12	13						
					19	46	26	iP iPP eS L M 5° 1/2 S; 102° 1/2 E, Near east coast of Sumatra	07	17	57 D 21 07 28 18 43 - 51 34
31	14	eP ei ei(S)	21	03	03						
				05	40						
				06	10						
32	15	iP iS 38° N; 174° 1/2 E, Tadzhik, S.S.R.	10	31	55						
				37	22	47		ePKP 15° 1/2 S; 175° W; Samoa I. region	07	59	35
33		iP iS 37° 1/2 N; 20° 1/2 E, Near west coast of Greece. Felt in Greece and Italy. Slight damage. M = 6 1/4 - 6.3/4 (Pas).	17	11	55	D 48					
				13	40			iP i(F.P) eS L M 5° 1/2 S; 103° E, Near coast of Sumatra. M = 6.3/4 (Pas)	23	21	01 D 24 13 31 05 45 - 55 00
34		iP iS aftershock.	17	34	50						
				37	00	49	27	iP iS 38° 1/2 N; 20° 1/2, Greece	00	25	34 28 01
35	15	iP	19	18	41						
36		iP local, very small	20	22	03						
37	16	iP iS d = 470, small	19	29	54	D 51					
				30	42			iP iS d = 690 Km.	03	28	50 D 30 03
38	17	i	02	37	47						
38a		iP 11° S, 66° 1/2 E, Indian Ocean.	02	41	52						
39	19	ipPKP 24° 1/2 S; 177° W, Tonga I. region	05	45	50						
						54		ePP e 28° 1/2 S; 71° W; Chile M = 6 1/2 (Pas)	12	54	31 57 37
40		e eiPKP 5 1/2 W; 146 E, M = 7 (Pas) Near North coast of New Gnivea	11	26	24						
				27	06						
41		iP iS 38° 1/2 N; 26° E; Off west coast of Turkey; Felt-Isim, Edremit, 56	14	02	53						
				04	41			iP iS d = 190 Km. small.	20	49	30 53
						55	29				
								iP iS d = 1300 Km.	23	51	16 53 10
42	20	ei	19	40	27						
43	22	ePKP ePKP <sup>2</sup> ePP <sup>2</sup> 54° S; 136° W; South Pacific Ocean	16	46	37						
					55						
				50	58						



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No.	Date	Phase	G. M. T.			
			h.m.s.			
57	30	eiP	11	20	12	D
		44° $\frac{1}{2}$ N; 80° $\frac{1}{2}$ E Sinkiang Province, China				
58	30	iP	15	31	33	
		iPP		36	50	
		e(S)		40	55	
		59° $\frac{1}{2}$ N; 152 W Kenai Peninsula - Alaska.				

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Seismology & Geom. Div.

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

EA/rd



State of Israel  
 Ministry of Development  
 The Geological Survey  
 Seismology & Geom. Division  
 Shneller - Jerusalem

Jerusalem Provisional Readings

Bulletin No. 67

December 1959

No.	Date	Phase	G.M.T. H.M.S.	No.	Date	Phase
1	7			14	11	iP
		From 1/12 - 10h 30m till 6/12 12h 34m - not working because of repairing		15	13	iP i i(s)
		iP 03 20 26 C 18 S; 178 W; Fiji Islands Deep (about 600 Km.)		16		ePKP i 18 S; Islan
2	8	iP 09 36 56 iS 38 17 d = 770 Km.		17	14	iP iP iPP e(S) 5 N; coast (abou
3		iP 12 55 05		18	14	iP i(PS) 1 N;
4		i 13 36 49 i(P) 52		19		iP i iPP iPPP eSKS iPS 59 1/2 S Island
5		iP 23 55 51 local, very small		20	17	e(iP)
6	9	iP 01 33 30 i(s)		21		eiPKP ePKP 36 1/2 S Pacifi
7		i(P) 03 55 37 i 58 16		22	18	i(P) ePP 53 N; Island; M = 6 1/2
8		iP 05 15 47 iS 16 20 L 16 43 Δ 290 Km.		23	20	iP 10 1/2 N; Mindanao Islands
9		iP 16 55 36 i(PP) 56 i(S) 57 35 (L ~ 11°)				
10	10	i(P) 02 25 17 i 43				
11		eP 18 37 55 i 38 22				
12	11	iPKP 01 58 32 23 8; 175 W; Tonga Islands region				
13		i 10 27 23				



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No.	Date	Phase	G.M.T. H.M.S.	No.	Date	Phase	G.M.T. H.M.S.
24	21	i(P)	03 05 23	41	iP		22 15 01
25		iPKP 27½ S; 176 W; Kermadec Islands region M = 6	10 40 32		iPP		18 15
26		iP iS 14 N; 52 E; Gulf of Aden M = 6½/4	11 24 27 28 52	42	53 N; 160 E; Kamachatka fore shock		
27	22	i(P) i	00 14 50 21 59	43	iP		00 10 36
28		iP local v.s.	02 29 22	44	eP e(P) ePPP 52½ N; foreshot		
29		iP iS	02 30 51 53	45	iP iS 35 N; 20 of Creta		
30		iP i(S)	10 37 47 53	46	iP 52½ N; foreshot		
31		iP 37½ N; 141½ E; off east coast of Honshu, Japan	17 32 43	47	iP ePP eS L 56 N; 16		
32		e	07 41 45				
33	23	eiP iS 38 N; 14½ E; Near north coast of Sicily; Several injured and minor damage	09 33 09 36 10	48	28		
34		i	14 19 14	49	iP iPcP ePP 52½ N; of Kamac		
35		iP iS D = 12°	21 42 09 44 17	50	29		
36	24	iP	01 24 24	51	iPKP 21½ S; Islands		
37		iP iS	05 41 35 44 34	52	iP iPP 18 N; 145 M = 6		
38		iP 9 N; 126½ E; Near North coast of Mindanao. P.J.	13 21 20	53	30		
39	25	iPKP 27½ S; 176W; Kerw adec I. region	04 08 57	54	31		
40	26	iP 59½ N; 151½ W; Kenai Peninsula - Alaska	18 32 06	55	i(P) iP iS		

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

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