

Records from the Seismological Observatory,
Rathfarnham Castle,
Co. Dublin, Ireland.

JANUARY 1958

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Jan. 2	Z	iP	02	13	52		36N 22E
	Z	ePP		14	28		H = 02 08 15
	Z	e		15	08		D = 3000 km
	NE	eS		18	30		
	NE	eL		23	00		
	Z	eP	21	24	30		Poorly defined
3	Z	i	02	30	29		
	Z	e	06	31	27		Very small
	Z	e	07	09	07		Microseisms
	Z	e(P)	18	00	50		
4	Z	e	06	54	55		
5	Z	i	00	30	04	D	
	Z	iP	11	41	13		D = 7500 km
	NZ	eS		50	13		
	Z	iPKP	12	49	05		
6	Z	iP	03	04	10	C	Small
	Z	i		04	54		
7	Z	eP	06	14	26		
9	Z	i	17	10	31		
	Z	iP	17	49	11	C	44.5N 85E
	Z	i		52	21		H = 17 39 24
10	Z	i	14	44	43		Seismic?
11	Z	iPKP ₁	13	38	39	C	23.5S 177W
	Z	iPKP ₂		38	47		H = 13 18 47
	Z	e		39	27		
13	Z	iP	00	13	54	C	52.5N 177E
	Z	ipP		14	30		00 02 24
	Z	e	00	59	47		
	Z	iP	20	27	25	D	
	Z	e		30	03		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Jan. 14	Z	e	04	04	22		
	Z	iPKP	06	14	36	D	22S 175W
	Z	iPKP ₁ 2	14	42		C	H = 05 54 48
15	Z	iP	19	27	19	C	0.9S 1.5 μ
	Z	ipP		27	39		H = 19 14 29
	Z	iPP		30	53	C	16.5S 71.5W
	NE	eSKS		37	39		h = 100 km
	NE	eL		50			D = 10100 km
	Z	iPKP?		53	08		
	Z	e	22	38	54		
	NE	eL	23	18	-		
16	Z	iP	04	23	48		
	Z	i		24	00		
	Z	i		25	09		
	NE	eL		31	-		
19	Z	iP	14	19	28	C	8.5S 79.5W
	E	iP		19	33	D	H = 14 07 23
	Z	iPP		22	34	D	D = 8850 km
	N	iS		29	31		20S 80 μ
	NE	eSSS		38	11		
	N	eLQ		48	-		
	E	eLR		52	-		
	NE	M		53	10		18S 250 μ
	Z	iP	14	55	31		H = 14 43 24
	Z	ePP		58	37		
	NE	eS	15	05	34		D = 8850
							22 to 24 Jan. Record on loan
23	Z	iP	13	38	26		
24	Z	i	18	14	36		Seismic?
	Z	iP	23	11	06		
	Z	eP	23	27	(45)		Confused traces
	Z	e		28	36		
25	Z	iPKP	00	12	00	D	17.5S 178.5W
	Z	i		15	25		H = 23 53 39 h = 550 km
27	Z	i	07	30	21		
	Z	ePKP	08	03	(41)		Microseisms
	Z	i		04	20		
28	Z	e	17	24	26		

Date	Comp.	Phase	G. M. T.	Type	Remarks
1958			h. m. s.		
Jan. 30	Z	e	06 40 16		
	Z	e	19 18 02		
31	Z	ePKP	06 52 41	C	
	Z	e	59 36		

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			se	G. M. T.	Type	Remarks
			h. m. s.			
Feb. 12	Z	iP	23	55	30	52N 175W H = 23 43 45
	Z	i		56	17	
15	Z	iP	01	58	56	C
	Z	i		59	08	
16	Z	iP	06	16	39	D
	Z	i		16	52	
	NE	eL		45	-	
17	Z	i	02	40	51	C 35.5N 70E H = 05 18 35 h = 200 km D = 6200 km
	Z	iP	05	27	49	
	Z	i		28	11	
	Z	iP		28	34	
	ZE	eS		35	20	
18	Z	e	20	02	37	
19	ZN	e	19	55	22	
22	Z	iP	11	02	15	D 50.5N 175W H = 10 50 23 D = 8600 km
	Z	i		02	29	
	Z	eS		12	07	
	NE	eL		28	-	
	Z	e	22	07	47	
23	Z	i	03	36	29	C
	Z	iP	08	27	06	
	Z	i		27	36	
	Z	i	10	31	57	
	Z	i	12	33	35	
24	Z	iP	12	37	28	D V. small large
	Z	i		37	30	
	NE	eS		45	56	
27	Z	eP	23	41	36	D = 10300 km 21N 120E H = 23 27 49
	NE	eSKS		52	09	
	NE	eSS		58	20	
	N	eL	00	21	00	
28	Z	eP	10	02	24	Very small
	Z	i		02	30	

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MARCH 1958

Date	Comp.	Phase	G. M. T.	Type	Remarks
1958			h. m. s.		
Mar. 1	Z	e	09 35 (00)		Disturbed
3	Z	iP	16 29 39	D	D = 8000 km
	Z	i	29 50		55.5N 166E
	Z	eS	39 03		H = 16 18 17
	N	eL	17 00		
	Z	eP	17 44 17		
4	Z	iP?	02 02 38	C	Small
	Z	iP	11 37 51	C	Small
9	NE	eL	11 50 -		
	Z	e	21 33 50		
11	Z	e	00 37 24		
	NZ	iP	00 38 56	D?	
	Z	ipP	39 15		25.5N 125E
	Z	iPP	42 20	C	H = 00 25 56
	Z	i	43 37		h = 60 km
	NE	iS	49 33		D = 9700 km
	N	i	50 16		
	NE	e	56 13		
	N	eL	02 00		
	NE	M	16 -		
	NE	M	22 -		
	NZ	M	27 -		16s. 200 μ
	Z	e	08 56 00) Seismic?
	Z	i	08 57 39	C	
	Z	e	14 20 21		
15	Z	e	00 36 59		
	Z	eP	06 32 11		Confused by microseisms
	Z	e	40 10		
18	Z	e	22 32 40		
20	Z	iP	01 49 53		
	Z	i	50 04		

Date	Comp.	Phase	G. M. T.	Type	Remarks
1958			h. m. s.		
Mar. 22	Z	e	06 48 19		
	Z	eP	10 23 19		23.5N 94.5E
	NE	eS	33 09		H = 10 11 27 Microseisms
26	Z	e	00 04 14		
	Z	e	00 39 40		Microseisms
28	Z	eP	04 19 10		Microseisms
	Z	epP	20 05		
	Z	iP	12 16 13	C	"
	Z	ipP	17 03		
	NE	M	40 -		
30	Z	iPKP	17 51 47		

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APRIL 1958



Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Apr. 2	Z	e	16	43	20		Microseisms
3	Z	iP	02	28	32	D	41.6 N 19.8 E (BCIS)
	Z	i		28	43		H = 02 23 48
	Z	iS		32	24		D = 2350 km
	ZNE	eL		34	20		
	Z	M		36			12S 10 μ
	Z	e	07	26	21		Microseisms
	NE	eL		33	00		
	Z	eP	08	37	18		
4	Z	i	02	13	09		Seismic?
5	Z	e	10	47	55		Microseisms.
7	Z	iP?	14	27	48		Very small
	Z	i		27	58		
	EZ	iP	15	40	43	D	4S 4 μ
	Z	iPcP		41	14		66.5N 157W
	NE	iS		48	52		13S 10 μ H = 15 30 38
	N	iSS		52	50		D = 6500 km
	E	eLQ		54	40		
	E	M		57	20		35S 100 μ
	N	eLQ	16	00	50		
	N	M		02	00		15S 70 μ
	N	MZ		09	00		18S 200 μ
	Z	i	16	10	20		
	Z	iP	18	17	39	C	1S 1 μ
	Z	i		18	01		
	Z	ePP		20	59		
	Z	iP	18	42	52	C	
	Z	i		43	03	C	
	Z	iP	18	50	57	D	
	Z	iP?	19	00	05		Very small
	Z	iP	19	02	21	C	
	Z	iP	19	23	50	C	
	Z	i		24	04	C	

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Apr. 8	Z	eP	00	24	21		
	Z	e	10	10	08		
9	Z	iP	04	45	15	C	
	Z	e		45	58		
	Z	iP	06	25	49		D = 7300 km
	Z	i		25	59		
	NE	eS		34	41		
10	Z	e	09	54	15		
	Z	eP	11	05	23		Indistinct
	Z	iP	12	02	42	C	38.5N 143E
	Z	ipP		02	55	D	H = 11 50 05
	Z	i		03	06		D = 9,500 km
	Z	e		10	08		
	Z	iP?	13	27	32	D	
11	Z	iP	01	10	51	C	2 sec. 0.3 μ
	Z	ipP		11	02		
	Z	iP	23	23	16	D?	D = 8400
	Z	i		23	50		48N 152.5E
	Z	iPP		26	06	C	H = 23 11 19
	NE	eS		32	04		
12	Z	eP	11	58	58	D?	26.5N 111W
	Z	e		59	11		H = 11 46 58
	Z	iP	13	38	32	C	
13	Z	eP	04	19	16		
	N	eP	12	40	(40)		No z record
	NE	eS		50	31		D = 8600 km
	NE	eL	13	20	-		H = 12 29 07 53N 161E
14	Z	iP	03	01	46	C	
	EZ	iP	21	44	48	C	4S 5 μ
	Z	i		45	00		H = 21 32 28
	Z	ePP		47	44		IN 79.5W
	ZN	eS		54	48		
	Z	iP	23	01	31	D	
15	Z	iP	01	42	54		
	Z	i	01	45	06		
	Z	iP	04	04	29	D	3S 0.8 μ
	Z	i		04	45	C	9N 84E

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Apr. 15 (contd.)	Z	i	04	07	44		H = 03 52 39 D = 8500 km
	NE	eS		14	21		
	E	eIR	04	32	-		
16	Z	iPKP	06	42	54	D	
	Z	i		42	57	D	
	Z	iP?	12	49	16	C	
	Z	e		50	14		
17	Z	e	03	26	48		
	Z	eP	11	45	45		
18	Z	iP	03	23	52	C	48 ¹ / ₂ N 154E H = 03 11 55
	Z	iPKP	07	50	45	C	
	Z	i		50	56	C	
19	Z	eP	04	15	(20)		Very small
	Z	eP	22	54	52		
20	Z	e	13	11	05		
21	Z	ePKP	20	34	31		
	Z	eP	22	50	29		
	Z	iPP		55	45	C	
22	Z	e	00	16	02		
23	Z	iP	03	09	53	D?	45N 152E H = 02 57 40 D = 9000 km
	Z	ipP		10	07		
	Z	ePP		12	41		
	Z	iP	05	04	50	C	
	Z	ipP		05	07	D	
	Z	i		05	32		
	Z	e	06	06	06		
24	Z	eP	18	21	48		Microseisms
25	Z	ePKP	09	45	08		
27	Z	iP	17	29	47	C	42.5N 143.5E H = 17 17 39 h = 100 km
	Z	ipP		30	17	D	
	Z	iP	19	15	27	D	
	Z	ipP		15	41	C	
28	Z	iP	12	00	08		D = 9600 km 11S 74W H = 11 47 40
	Z		12	01	09		
	N	eS		10	40		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Apr. 30	Z	iP	08	25	53		
	Z	i		26	41		
	Z	iP	14	11	57.5	D?	D = 1780 km
	Z	i		12	02		37.5N 13W
	Z	ePP		12	17		H = 14 08 07
	Z	i		12	27		
	Z	i?!		14	46	D	(Repetition?)
	Z	e		14	59		
	Z	eS		15	08		
	Z	iLR		15	12		
	Z	eP	19	40	26		Doubtful

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MAY 1958

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
May 1	Z	ePKP	00	48	17	D	D = 16000 km
	Z	iPKP		48	22	C	13.5S 167.5E
	Z	i		48	55		H = 00 29 15
	Z	ipPKP		49	15		h = 200 km
	Z	e		51	17		
	Z	iSKP		51	23		
	Z	e		21	20	33	
2	Z	e(P?)	20	41	26		Very small
	Z	iP	21	29	20	D	28.5N 55E
	Z	i		34	38		H = 21 20 13
3	Z	iP	07	08	38		Near. Very small explosion?
				09	04		
	Z	e	07	20	13		
	Z	iP	20	23	51	C	36.5N 22E
	Z	iPP		24	13	C	H = 20 18 16
	Z	i		26	39		D = 2850 km
	NZ	e		29	18		
4	Z	iP	10	55	58		44.5N 7.4E
	Z	i		56	20		H = 10 52 45
	Z	i		56	27		D = 1400 km
	Z	i		57	46		(BCIS)
	Z	i		58	05		
	Z	iS?		58	22		
	Z	iL?		58	49		
	Z	M		59	46		1s. 0.4 <i>ms</i>
5	Z	eP	05	29	03		
	Z	iP	06	42	48	C	9.5S 27.5E
	Z	ipP		43	02		H = 06 31 39
	Z	i		43	17		D = 7800 km
	Z	iPP		45	34		
7	Z	iP?	08	23	39	D	
	Z	i		24	49		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
May 8	Z	iP	02	51	11	C	0.6s. 1.0 μ 45.5N 28.0W
	Z	e		55	17		H = 02 47 14 Microseisms
	Z	iP	12	53	45	C	Microseisms
	Z	ipP		54	32	D	
9	Z	e	00	30	45		
	Z	eP	02	46	59		
	Z	e		47	23		
07 May 10 — 07 May 11 no Z record.							
12	Z	eP	05	50	04		Microseisms
	Z	eP	17	02	(50)		"
	Z	iP	21	24	41		
15	Z	i	10	03	59		
17	Z	eP	05	33	07		
	Z	e		34	56		
18	Z	iPKP	02	52	23	D	
	Z	i		53	39		
20	Z	i	00	48	16		
	Z	e	06	03	26		
23	Z	i	00	52	32		
25	Z	e	00	07	38		
	Z	i		08	47		
	Z	e	00	47	30		
	Z	iP	15	06	10		51.5N 177W
	Z	i		06	18		H = 14 54 30
	Z	iP	21	23	47		3S 77W
	Z	ipP		24	33		H = 08 49 47
	Z	iP?	21	40	47		
	Z						
26	Z	iP	09	02	00		
	Z	iPKP	16	36	41		17.5S 178.5W H = 16 18 10 h = 600 km
27	Z	iP	18	33	39	C	37N 27.1E
	Z	ipP		34	06	D	H = 18 27 45
	Z	i		36	31		D = 3200 km
	Z	eS		38	10		Beginning in fold of paper -
	Z	e		39	22		may be earlier
	Z	e		43	24		
	Z	e					

Date	Comp.	Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
May 29	Z	iP?	08	48	05		
30	Z	e	16	28	05		
	Z	iP	18	16	24		D = 8350 km
		i		16	29		52.5N 169W
		iPKPPKF	43	41			H = 18 04 50
	Z	iP?	19	20	43		
	Z	iPKP	21	39	35	D?	
31	Z	iPKP	19	52	04	C	
	Z	i		52	09	D	15S 169E
	Z	i		55	06		H = 19 32 30
	N	i		58	08		D = 15500 km
	E	eSKS		59	08		
	NE	iSS		13	46		
	E	e		25	10		
	N	eLQ		43	—		
	Z	i	23	03	40		Small

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June 1958.

Date	Comp.	Phase	G.M.T.	Type	Remarks
1958			h. m. s.		
June 1	Z	e	03 57 31		
	Z	iP	04 11 42	D	Small
	Z	iP	18 31 38		
	Z	e	19 02 58		
2	Z	e	06 18 12		
3	Z	iPKF	19 51 30	D?	15S 168E
	Z	e	55 09		H 19 31 52
	Z	e	59 17		
	Z	i	21 19 20		
4	Z	iP	14 41 23	D	1.7S 0.7 μ
	Z	i	41 37		52.5N 167W
	Z	ePPF	46 29		H 14 29 50
	NZ	eS	50 03		
	Z	e	51 28		
5	Z	iP	13 35 07	C?	
	Z	i	35 31	D	
6	Z	eP	09 23 20		Microscisms
	Z	iP	19 27 28	D	
8	Z	iP	00 50 26	D	
	Z	eP	21 18 28	C	
		e	18 43		
10	Z	e	04 21 34		
	Z	e	23 03		
	Z	iP	07 12 36	D?	30.5N 51.5E
	Z	i	13 34		H 07 04 02
	Z	ePP	14 16		
	Z	e	08 32 31		Doubtful beginning

Date	Comp.	Phase	G.M.T.	Type	Remarks
1958			h. m. s.		
June 12	Z	iP	12 06 12		
	ZN	iP	21 04 30	C	53N 167W
	Z	i	07 34		H20 52 57
	Z	ePP	07 15		D8200 km
	NE	eS	14 12		
	NE	eL	33 -		
	NE	M	37 -		20S 20 μ
	N	M	41 30		
	Z	iP	21 44 56	C	
	Z	e	45 20		
13	Z	iPKP	11 18 43		
	Z	i	19 20		
15	Z	iPKP	02 59 51		
	Z	iPKP	15 13 13	D	18S 178.5W
	Z	i	14 25		H14 54 37
	Z	i	15 52		h 600 km
	Z	e	16 03		
16	Z	iPKP1	19 11 24	C	
	Z	iPKP2	11 28	C	
17	Z	iP	19 20 15	C	
18	Z	iP	01 18 53	(D)C	2.5S 3 μ
	Z	iPP	19 04		68.5N 16W
	Z	iPPP	19 15		H 01 15 02
	Z	i	20 17		Small dilatation
	Z	eS	21 56		precedes compression
	Z	eL	22 29		D: 1750 km
	Z	iP	02 27 22	C	
	Z	ePP	27 33		H 02 23 27
	Z	ePPP	27 43		Repetition
	Z	eS	30 23		
	Z	eP	04 37 49		
	Z	iPPP	38 04		H 04 34 04
	Z	eS	40 53		Repetition
	Z	iP	05 21 41		" (?)
Z	i	16 34 01	C		
Z	iP?	19 48 10	D		

Date	Comp.	Phase	G.M.T.	Type	Remarks
1958			h. m. s.		
June 19	Z	iP	05 29 53	C	D: 8300 km 45.5N 156E H 05 18 00
	Z	i	30 07		
	Z	i	30 54	D	
	Z	eS	39 31		
	NE	eL	55 30		
	Z	iPKP	18 22 39	C	
	Z	e	23 01		
	Z	e	25 12		
20	Z	iPKP	17 51 17		
	Z	i	51 21		
21	Z	e	12 53 15		Seismic ?
	Z	i	13 59 41		Seismic ?
23	Z	iP	05 20 28	C	very small
	Z	i	07 38 58		
	Z	iPKP	19 11 51		
	Z	iPKP	19 36 12	D	
24	Z	eP	04 58 04		small, short period.
	Z	eP?	06 11 57		
25	Z	ePKP	09 55 36	D	D 13800 km
	Z	iPP	57 30		3S 144.5E
	NS	eSS	10 13 25		H 09 36 30
	N	e	15 00		
	EN	eLQ	35 -		45S
	N	eLR	39 -		
	NE	M	53 -		20S 60 ^u
26	Z	eP	04 49(40)		microseisms
30	Z	iP	08 48 32	D	small D, large C.
	Z	i	48 36		2s 3 ^u
	Z	iPP	48 45		D 3200 km
	Z	iPP	49 38		H 08 42 33
	Z	iS	53 20		36.5N 27.5E
	Z	i	54 34		
	Z	e	58 22		
	Z	eP	18 59 38		

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JULY 1958



Date	Comp.	Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
July 1	Z	eP	06	04	55	D	D = 8600 km 51.5N 176.5W H = 06 53 57
	Z	i		05	30		
	NZ	eS		14	55		
	Z	i	06	34	17		
July 1, 18hrs to July 2, 08 hrs							no vertical record.
3	Z	i	05	58	44	D?	
	Z	i		59	17		
	Z	ePKP ₁	06	46	58	D?	
	Z	iPKP ₂		47	26		
	Z	i		49	00		
	Z	ePP		50	01		
	Z	i	10	43	08		
4	Z	iP	01	09	17	C	
5	Z	e	02	12	35		
6	Z	e	03	48	33	Near Seismic?	
	Z	i		48	49		
	Z	i		48	56		
	Z	iP	04	52	27		
	Z	i		52	40		
	Z	iP?	19	01	39		
	Z	iP	05	27	57		D?
7	Z	iP	13	49	52	D	
	Z	iP	05	04	53		
8	Z	iPP		04	55	50.8N 10.2E H = 05 02 26 (BCIS) D = 1200 km	
	Z	i		05	03		
	Z	iS		07	07		
	Z	eLR		07	45		
	Z	e		07	59		
	Z	iP?	15	54	43		
	Z	iPKP	14	13	09		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
July 10	Z	e	06	18	16		
	ZN	eP	06	26	14		
	ZN	iP!		26	23	C	1.5S 2.6 ^{1/2}
	N	iPPP		30	07		58.5N 136W
	NE	iS		34	46		H = 06 15 54
	N	iPS		35	11		D = 6750
	NE	iSS		38	43		
	EN	eLQ		44	10		
	NE	eLR		46	40		
	NE	M		49	50		30s. 900 ^{1/2}
	E	M		02	00		N. pen damaged
	E	M		09	30		
	NE	eL ₂		45			
11	Z	iP	06	54	53		
	Z	iP	19	23	32	C?	
	Z	i		23	47		
	Z	iPP		27	14		
14	Z	eP	03	05	19		Microseisms
15	Z	eP	08	05	10		
	Z	e		05	31		
	NS	eL		13	00		
	Z	i	21	52	22		
17	Z	iP	05	42	19	D	D = 2750 km
	Z	i		42	28	C	40.5N 24.5E
	ZN	eS		46	47		H = 05 37 00
	Z	eL		48	-		
	Z	eP	21	11	08		
18	Z	e	00	51	01		Small
	Z	e		51	34		
	Z	e		52	35		
	Z	iP	01	59	43	D	
	Z	ipP		00	05		
	Z	i	22	37	32		Small
19	Z	e	06	47	05		
	Z	e		49	02		
	Z	iPP		49	37	D	
	Z	iP	15	09	55	C	
	Z	e		10	44		
	Z	iP	17	35	06	D	
	Z	ePP	18	36	47		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
July 20	Z	iP	19	29	12		France
	Z	iPP		29	15		
	Z	i		29	24		begins in minute mark, may be
	Z	i		29	46		+ 1s.
	Z	eS		30	39		H = 19 27 17
	Z	i		30	49		D = 900 km
	Z	eLR		31	34		(BCIS) 46N 1.2W
	Z	iLg?		31	40		
21	Z	iP	07	37	12	C	D = 9000 km
	Z	i		37	29	C	44.5N 147.5E
	NE	eS		47	15		H = 07 24 58
	Z	iP	14	49	03		
	Z	i		49	21		
	Z	ePP		52	19		
	Z	ePKP	18	52	42		Very small
	Z	e		53	11		
22		From	04	01	40		Disturbances.
		to	06	00	00		Seismic? Unidentified.
23	Z	eP	10	40	41		Poorly recorded
		eS		51	40		
24	Z	iP	13	19	41	D	
26	Z	e	06	32	26		
	Z	e		35	58		
	Z	iP	17	48	45	D	D = 9500 km
	Z	ipP?		51	20		h = 650km
	Z	i		53	31		13 1/2 S 69W
	Z	iPPP		54	53		H = 17 37 09
	Z	e	18	14	08		
	Z	iP?	18	14	57		
	Z	ipP?		17	19		
	Z	eP	18	35	06		
	Z	i		37	34		
27	Z	iPKP	00	41	13		
	Z	i		41	17		
	Z	i		41	30		
	Z	iP	02	25	34		55N 34W
	Z	iP	18	35	19		H = 18 30 33
	Z	i		38	05		D = 2000 km
	Z	eL		40			

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
July 29	Z	iPKP	11	09	18	C	
	Z	e		10	40		
	Z	iP	21	46	37	D	Atlantic
	Z	i		46	51	C	4N 26W H = 21 37 25
30	Z	iP	02	59	29	D	
	Z	i		59	59		
31	Z	iP	02	15	30	C	
	Z	iP	02	38	07	C	

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August 1958



Date	Comp.	Phase	M. T.			Type	Remarks
			h.	m.	s.		
1958							
Aug. 1	Z	iPKP ₁	05	56	36	D	
	Z	iPKP ₂		56	45		
3	Z	ePKP ₁	01	25	06		D = 16500 km
	Z	i		25	09	D	21.5S 179W
	Z	iPKP ₂		25	15		H = 01 06 24
	Z	i		25	24		h = 550 km
	Z	i		25	41		
	Z	ipPKP		27	29		
	Z	e		27	50		
From 12 hrs to 4 Aug. 08 hrs no record.							
6	Z	iP	17	18	29	D	59.5N 5.5E
	Z	e		19	14		H = 17 16 05
	Z	i		19	55		D = 1100 km
	Z	i		20	03		(P-H)
	Z	i		21	54		
	Z	iPKP ₁	21	28	40	C	
	Z	iPKP ₂		28	31		
	Z	e		30	26		
8	Z	iP	05	32	43	C	D = 1500 km
	Z	i		33	52		H = 05 29 35
	Z	i		35	59		
	Z	iLg		36	44		41.4N 2.8E
	Z	i		37	07		BCIS
	Z	iP	20	40	33.5	C	D = 1500 km
	Z	i		40	42	D	H = 20 37 26
	Z	iS		43	14		
	Z	iLg		44	45		
	Z	eL		46	42		
9	Z	e	13	49	00		
10	Z	eP	23	55	07		
11	Z	iPKP ₁	08	12	51	D	18S 168.5E
	Z	iPKP ₂		13	02		H = 07 53 12
	Z	i		13	20		
	Z	ePP		15	57		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958 Aug. 12	Z	eP	08	28	53		
	Z	iP	15	47	39	C	
		ipP	18	01		D	
	Z	e	19	53	(03)		
	Z	i		53	42		
	N	eL	20	29	00		
13	Z	eP	07	42	48		
	Z	i		44	04		
	Z	iP	20	24	50	D	
14	Z	iPKP	10	05	05	D	
	Z	i		05	30	C	
	Z	iP	11	34	57	C	34.5N 48E
	Z	ePP		36	34		H = 11 27 00
	Z	iPPP		37	07		D = 4700 km
	Z	i		39	29		
	N	eL		47	00		
	Z	iP	12	17	14		
	Z	iP	15	06	44	C	52N 175W
	Z	i		07	07		H = 14 55 10
	Z	i		07	35		D = 8200
	Z	i		08	27		
	NE	iS		16	18		
	N	eL		32	00		
15	Z	iP	15	34	16	C	
	Z	i		34	26	D	
	Z	ePP		36	04		
	NZ	iP	20	07	09	C	53N 160.5E
	Z	i		09	19	D	H = 19 55 39
	NE	eS		16	45		D = 8200 km
	N	e		19	00		
	NE	eL		35	00		
	EZ	ePP	22	48	16		1.5N 125E
	Z	ipPP		48	50		H = 22 29 17
Z	ePPP		50	47		D = 12500 km	
NE	eSP		57	00		h = 200 km	
Z	ePKKP		58	13			
NE	eSSS	23	08	15			
N	eLQ		13	00			
EN	eLR		20	00		60s.	
EN	M		24	00		30s. 100 <i>At</i>	
EN	M		30	00		25s.	
16	Z	iP	13	29	40	D	51.5N 176W
	Z	i		30	45		H = 13 17 52
	Z	iPP		32	16	C	
	Z	i		35	37		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Aug.16 (contd.)	EZ	iP	19	21	40		34.5N 48E
	Z	iPP		23	12		H = 19 13 45
	NE	eS		28	04		D = 4700 km
	Z	i(P?)		28	23		
	NE	eSS		30	50		
	N	eLQ		32	30		
	N	M		35	00		50s. 120 ^{1/1}
	E	eIR		38	00		
17	Z	i	04	56	38		Seismic?
	Z	eP	09	20	22		
	Z	e	19	18	01		
	Z	iPKP?	21	31	59		
18	Z	e	15	31	(30)		Microseisms
19	Z	e(PKP)	00	00	01		Microseisms
	Z	iP	16	02	26	C	
	Z	iP	16	41	08	D	
	Z	i		41	16		
20	Z	e	01	59	59	D	
	Z	ePKP	03	59	49	C	
21	Z	iPKP ₁	01	28	56	C	24S 176W
	Z	iPKP ₂		29	09	D	H = 01 09 00
	Z	i		29	54		
	Z	iPKP ₁	04	22	24	D	H = 04 03 26
	Z	iPKP ₂		22	30	C	Tonga Is.
	Z	e		27	42		
	Z	iP	12	30	34	D	
	Z	iPKP ₁	21	18	17	C	1.0s. 0.9 ^{1/1}
	Z	iPKP ₂		18	23		H = 20 59 10
	Z	i		18	38		18S 176W
	Z	ipPKP		19	14		h = 250 km
	Z	i		20	12		D = 15900 km
	Z	i		20	34		(PKP - H)
26	Z	iPKP	23	51	12	C	
27	Z	iP	13	20	35		
	EZ	iP	15	21	52	C	2.1s. 2.6 ^{1/1}
	EZ	iPP!		22	20	D	37.8N 20.5E BCIS
	EN	iS!		26	16		14s. 20 ^{1/1}
	EW	eSS		27	02		D = 2700 km

Date	Comp.	Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
Aug. 27 (contd.)	NE	eL	15	30	10		H = 15 16 34
	NE	M		35	00		13s. 35 ^u
	NE	M		41	00		12s. 20 ^u S is very well defined
28	Z	i	16	19	02		Seismic?
Aug. 29 07 hrs to Aug. 31 07 hrs							No record
31	Z	iP	23	10	25	D	May be 1 sec earlier in minute mark
	Z	i		10	45		
	Z	eS		18	46		
	NS	eL		30			
							D = 6800 km

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September 1958

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Sep. 1	Z	iPKP	01	17	03		
	Z	i	01	20	34		
2	Z	iP	01	19	02	D	37.7N 20.9E
	Z	i		19	51		H = 01 13 27 B.C.I.S.
3	Z	iP	03	53	52	D	ON 18W
	Z	i		54	17		H = 03 44 24
	Z	i		54	40		B.C.I.S.
4	Z	eP	00	09	30		
	N	ePP	22	09	20		11500 km
	N	eSKS		15	51		33.5S 69.5W
	E	eLR		45	20		H = 21 51 08
8	Z	iP	05	37	10		
	Z	i		37	31		
9	Z	eP	11	44	12		
	Z	iP	22	35	09	C	
13	Z	i	04	44	15		Seismic?
14	Z	iP	14	31	52	D	57N 121E
	Z	i		31	53	C	H = 14 21 37
	Z	i		32	24		D = 6900km
	Z	i		32	57	C	
	Z	iPP		34	14	C	
	ZN	iS		40	24		
	Z	i	19	51	39		Local disturbance?
	Z	i		54	02		
	Z	i	21	44	40		
	Z	i		44	48		
15	Z	iPKP	17	08	47	D	
	Z	iP	19	13	13	C	
	Z	eP	19	59	08		2.5N 120.5E
	Z	eSP	20	02	20		H = 19 45 40
	Z	iPKP	03	05			h = 600km

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Sep.15 (contd.)	Z	ePP	20	03	42		D = 12000km
	Z	i		04	13		
	Z	ePPP		06	10		
	Z	iPKKP	20	14	16		
	Z	i		14	39		
16	Z	iPKP	13	05	10	D	
18	Z	e	21	02	26		Microseisms
20	Z	iPKP	17	28	39		
21	Z	iP	05	57	48	D	
	Z	i		59	39		
22	Z	iPKP ₁	19	25	43		33.5S 177W H = 19 05 44
	Z	iPKP ₂		26	33		
	Z	ePP		30	30		
24th - 25th No Z record.							
30	Z	e	08	52	10		

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October 1958



Date	Comp.	Phase	G. M. T.	Type	Remarks
1958			h. m. s.		
Oct. 1	Z	e	16 51 30		
4	Z	e	03 30 21		Microseisms
	Z	e	10 15 56		
5	Z	e	06 24 26		
6	Z	iPKP?	02 27 45		
	Z	e	29 24		
	Z	iP	19 04 13	C	
9	NE	eL	12 06 00		
10	Z	e	08 41 --		Changing record.
11	Z	iP	02 12 09	D?	
		i	12 35		
	Z	e	09 18 31		
12	Z	e	08 13 34		Very small.
			Oct.12 0830 to Oct.16 0920	No records.	
18	NE	eL	10 10 00		Microseisms
19	Z	ePKP?	02 13 15		Small
	Z	i	13 49		
	Z	ePKP	12 02 43		
20	Z	eP	01 07 21		Small
	Z	e	01 31 37		
	Z	iPP	31 56	C	
	Z	e	34 12		
21	Z	e	06 36 31		
	Z	e	17 52 35		Small
22	Z	e	08 38 40		
23	Z	ePKP	00 02 29		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
Oct. 23 (contd.)	N	eL	06	54	00		
	Z	iP	15	50	45	C	34.5N 47E
	Z	i!		50	50		H = 15 43 00
	Z	i		51	41		D = 4600km
24	Z	i	08	23	23		Nuclear explosion.
25	Z	iP	06	36	54	C	22.5S 11W
	Z	i		37	02		D = 8500
	Z	e		38	27		H = 06 25 04
27	Z	iP?	18	29	20		
28	Z	iP	10	57	22	D	30.5N 85E
	Z	i	11	06	42		H = 10 46 27
	N	eL	11	13	00		D = 7400km
29	Z	iP	00	01	53	D	
	Z	P	07	56	-		Changing records
	Z	iP	08	07	02	C?	
	Z	iP	08	18	06	C	
30	Z	iPKP?	10	24	02	C	
31	IE	eL	07	48	-		
	NE	eL	19	56	-		

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November 1958



Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Nov. 1	Z	e	12	31	00		
	Z	iPKP	12	36	08	C?	17.5S 168E
	Z	i		37	12		H = 12 16 36
	Z	e		41	32		
	Z	iPKP	16	09	39	C	
	Z	e		09	51		
3	Z	eP	14	42	(42)		Indistinct
	NE	eL	15	05	-		
4	Z	ePKP	23	54	43	D?	Microseisms
6	Z	eP	15	02	06		
	NZE	iPKP	23	10	12	C	N 14S
	NE	i		10	48		44.5N 148.5E
	NE	iS		20	15		h = 60km
	N	iSS		25	35		H = 22 58 06
	N	iSSS		28	55		D = 8850km
	NE	eLQ		33	20		
	NE	eLR		37	20		50s.
	N	M		42	30		15s. 700 μ
	NE	M		45	-		15s. 700 μ
	Z	iP	23	26	23		Repetition
	Z	iP	23	28	21		
	Z	iP	23	39	43		
7	Z	eP	00	23	22		
	Z	iP	00	48	27	C	
	Z	i	00	50	01		
	Z	iP	00	51	37	D	
	Z	iP	01	14	11	C	
	Z	iP	01	17	08	C	
	Z	iP	01	25	57	C	
	Z	iP	01	26	47	D	
	Z	iP	01	55	12		
	Z	iP	02	07	47		
	Z	P	02	22	(40)		

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1958							
Nov. 7 (contd.)	Z	iP	02	29	36		
	Z	eP	03	03	00		
	Z	iP	05	12	03	D	
	Z	e	07	17	06		
	Z	i	07	52	59		
	Z	eP	10	41	29		Indistinct
	Z	eP	11	36	32		
	Z	eP	17	44	56		
	Z	iP	19	06	43	D	
	Z	iP?	19	27	16		
	Z	eP?	20	43	07		
	8	Z	eP	09	34	21	D
9	Z	iP	14	45	33		
	Z	e	18	05	10		
	Z	e	21	18	04		
12	ZN	iP	20	35	37	C	
	Z	i!		35	39	D	
	Z	e		37	12		
	NE	eS		45	42		1.8S 4.0 μ
	E	eLQ		56	20		D = 8850km
	N	eLR		59	30		44.5N 149E
	N	M		10	10		H = 20 23 26
	E	M		12	00		
N	M		16	--		20s. 120 μ	
13	Z	e	03	08	40		Microseisms
	Z	iP	04	16	49	D	
14	Z	iP	05	47	04	D	
	Z	i		47	23	C	
	Z	iPKP	14	07	15	C	
	Z	e		08	52		
15	Z	iP	05	47	53		37.5N 21.5E (B.C.I.S.)
	Z	i		48	00		H = 05 42 40
	Z	i		48	19		D = 2700km
	Z	iP	09	12	53	D?	
16	Z	e	04	59	44		
			06	27	41		

Date	Comp.	Phase	G. M. T.	Type	Remarks
1958			h. m. s.		
Nov. 17	Z	e	15 46 29		
	Z	e	19 07 08		
18	Z	i	07 57 08		Seismic?
		i	57 54		
19	Z	iP	09 35 59	C	
	Z	i	36 14	D	
	Z	eP	15 12 53		
20	Z	iP	05 48 16	C	
	Z	iP	14 30 09	D	45N 149.5E
	Z	ipP	30 25		H = 14 18 04
23	Z	iP	20 27 42		29N 87E
	Z	i	28 14		H = 20 15 48
	Z	i	29 50		Small
25	Z	iP	02 26 34		42.8N 0.3E
	Z	i	26 45		H = 02 23 54
	Z	e	27 15		(B.C.I.S.)
	Z	iS	29 00		D = 1300km
	Z	iL	29 56		
	Z	i	31 04		
26	Z	eP	09 25 47		
30	Z	iP	01 45 (45)	C	Time by measurement

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December 1958

Date	Comp.	Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
Dec. 3	Z	eP?	16	12	50		Microseisms
4	NE	eL	19	51	--		Microseisms
6	Z	eP	09	46	(00)		Microseisms
	Z	e	09	53	26		
7	Z	e	18	12	33		Microseisms
		e		16	08		
8	Z	iP	12	20	36	C	44N 149.5E
	Z	i		20	50		H = 12 08 23
	Z	e		29	10		
10	Z	iPKP	07	22	30	D	37S 176.5E
	Z	i		23	23	C	H = 07 02 59
	Z	i		27	07	C	h = 300km
	Z	i		27	22	D	D = 18000km
	Z	e		35	04		
	Z	e	14	54	09		
14	NE	eL	08	30	00		
15	Z	i	14	02	07	C	
	Z	i		03	19	C	
16	Z	e	03	36	53		Microseisms
17	NE	eL	16	22	--		
18	Z	e	07	45	50		Microseisms
	Z	e		48	20		
19	Z	eP	11	28	(00)		Microseisms
20	Z	i	19	32	58	D	Seismic?
21	Z	iP	05	55	58	D	44.5N 81E
	Z	i		56	20		H = 05 46 26
	Z	e	06	00	02		
	Z	e		04	41		
	NZ	eL		10	--		

		Phase	G. M. T.			Type	Remarks
1958			h.	m.	s.		
Dec.23	Z	iP	12	31	49		
	Z	i		31	58		
	Z	i		32	55		
	Z	i		33	34		
24	Z	e(PKP)	20	55	50		
25	Z	ePKP.	08	24	44		
26	Z	e	06	09	46		
28	Z	iP	05	45	17	D	29.5N 80.0E H = 05 34 36 D = 7300km
	Z	i		45	49		
	Z	iPP		47	33		
	NE	eL	06	02	00		
31	Z	iPKP	02	05	01		
	Z	i		05	06		
	Z	e	04	01	22		

R. E. Ingram, S.J.

Supplement

1958					
Jan.23	Z	iP	13	38	26
		i		38	35