SEISMOLOGICAL OBSERVATORY

RATHFARNHAM CASTLE

BULLETIN

for January 1 to March 31, 1955

Rathfarnham

Co. Dublin, Ireland

Date	Comp.	Phase	G. M. T.	Type	Remarks
1955			h. m. s.		Epicentres and times of origin are as determined by U.S.C.G.S. unless otherwise noted.
Jan. 1	E	e	10 39 (35)		Microseisms
3	Z	iP	01 12 19	D	39N 22E
	Z	i	12 22	C	01 07 02
	Z	i	13 05	C	D = 2600 km
	ZNE	eS	16 33		
	Z	eLR	21 00		
5	Z	$iPKP_1$	01 10 28	D	Large microseisms
	Z	e	10 33		50S 162½E
	Z	$iPKP_2$	11 52	D?	H = 00 50 12
	Z	e	12 30		D = 19200 km
	Z	e	14 42		
	Z	iPP_1	15 52	D	
	Z	iPP_2	16 44		
	Z	$iPPP_1$	19 46		
	Z	$ePPP_2$	21 45		
	NE	i	24 46		
	E	e	26 45		
	EN	e	35 32		
	E	eSS	37 06		
	NE	e	40 30		
	NE	e	44 50		
	E	eLQ	02 12 00		
	N	eLR	20 00		
	E	MQ	30 00		20s.
	N	MR	32 00		20s. 60μ
	N	M	34 00		16s.
	Z	iP	15 40 18	D?	
	Z	iPKP?	18 07 (46)	D	Large microseisms
	Z	i	08 16	C	16S 167E
	Z	e	09 10		H = 17 48 35
	Z	e	17 16		
	NE	eL	19 10		
6	Z	iPKP	00 01 53		
	Z	i	01 58		
	Z	e	04 08		
	Z	e	05 55		
	Z	e	02 43 16		
	Z	e	43 24		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Jan. 8	Z	ePKP(1)	07	53	07	C	(1) 11½S 166½E
	Z	i (1)		53	28	C	H = 07 33 36
	Z	i (1)		54	10	C	(D = 15300 km from PKP-H)
	Z	e (1)		57	05		
	Z	iP (2)		58	24	D?	(2) 39N 22·5E
	Z	i(PP)(2)		58	49	D	H = 07 52 57
	Z	iPPP(2)		59	10	D	D = 2700 km
	Z	eS (2)	08	03	16		Time by measurement, uncertain
	ZNE	eL (1)	08	43	00		
	Z	i	14	02	25		Seismic?
	Z	iP	19	15	41		
9	Z	iP	00	39	14	C	
13	Z	iP	02	15	12		Microseisms
	Z	i		15	44		53N 167·5W
	Z	iPP		17	38		02 03 43
	Z	e		22	36		D = 8050 km
	NS	eS		24	41		
	N	ePS		25	30		
	N	eSS		30	05		
	E	eLQ		35	40		
	N	eLR		40	30		
	NE	M		44	00		
	N	MR		45	30		
	N	MR		48	30		
	Z	iP	02	47	08		Repetition
21	Z	i	14	31	46		Microseisms
22	Z	iPKP	21	29	30	C?	
	Z	i		32	48	D	
27	8.00 - 20.00 hrs no records on Z compt.						
28	Z	iP	07	48	06	C	Disturbed by changing records
	Z	i		48	23	C	
	Z	iP	17	13	31		D = 7600 km
	Z	eS		22	37		
	NE	eL		39	00		
31	Z	iP	05	15	06	C	
	Z	i!		15	07	D	
	Z	i		15	11	D	
	Z	i		15	12	C	
	Z	iP	16	14	13	D	

Date	Comp.	Phase	G. M. T.			Type	
1955			h.	m.	s.		
Jan. 31	Z	i	16	14	20	C	
(contd.)	Z	i		14	26	D	
	Z	i		14	38	D	
Feb. 1	Z	i	19	28	29		
4	Z	eP	07	35	08	D?	
	N	eS		46	30		
	NE	eL	08	00	00		
	Z	e	09	08	53		Cery small
5	Z	i	20	53	58	C	
	Z	i		54	06	D	
	Z	e		56	02		
6	Z	eP	00	59	46	D?	Foreshock of following
	Z	e		59	57	D	
	E	eLQ		05	25		
	NE	eLR		07	10		
	ZN	iP	02	32	02	C	70N 13W BCIS
	Z	i		32	11	C	H = 02 28 06
	ZN	i!		32	17	D	D = 1890 km
	N	iS		35	27		
	E	e		35	47		
	E	eLQ		36	00		
	N	eLR		36	40		
	E	M		38	00		15S
	NE	M		39	40		11S
10	Z	iP	00	15	06	C?	
	Z	e		15	18		
	Z	e	10	44	26		
11	Z	i	04	51	28		
	Z	i		51	51		
	Z	i		53	02		
13	Z	iP	17	27	54	C	
	Z	e		28	10		
	Z	i		28	27		
	Z	ipP?		28	36		
15	Z	iP	06	21	28		
	Z	iPKP?	06	40	10		
17	Z	iP	19	35	25	C	38·5N 13·5E
	Z	i		35	37	C?	H = 19 30 42
	Z	i		35	50	C	
	Z	i		36	01	D	

Date	Comp.	Phase	G. M. T.			Type	
1955			h.	m.	s.		
Feb. 18	Z	eP	22	58	20	C	Small
	Z	e		59	10		
	NE	eL	23	18	00		
21	Z	iP	23	19	22	D	
	Z	i		19	33		
	Z	e		19	46		
	Z	e		22	48		
23	Z	iPKP	11	59	34	D	
	Z	e		59	48		
27	Z	eP?	10	43	53		
				44	16		
	Z	e	19	31	23		
	NZ	iPKP	21	03	16	D?	27·5S 176W
	Z	i		03	21	C	H = 20 43 24
	Z	i		03	25	D	D = 16900 km
	Z	i		03	30	C	Small beginning (D?) followed by large impulse (C)
	Z	i		03	37		
	Z	i		04	07	C	
	ZN	iPP1		07	10	C	
	ZN	iPP2		07	36		
	NE	e		14	00		
	NE	eSKSP		17	37		
	NE	e		23	22		
	NE	eSS		26	40		
	NE	eSSS		32	15		
	NE	e		36	07		
	NE	e		40	00		
	NE	eLQ		50	30		
	N	eLR		55	10		50S
	NE	M	22	07	00		20S 200μ
	NE	M		14	30		20S 100μ
28	Z	e	20	55	45		Doubtful
Mar. 1	Z	iP	01	58	13		
	Z	e	02	00	23		
	ZN	iP	04	52	33	C	D = 6300 km
	Z	i		53	11	C	
	Z	iPcP		53	40	D	65N 133W
	Z	iPP		54	46	D	H = 04 42 59
	Z	iPPP		55	42	D?	
	NE	eS	05	00	(30)		in hour mark
	E	eSS		05	00		
	E	eLQ		08	10		
	N	eLR		10	40		
	NE	M		15	00		
	NE	M		18	00		

Date	Comp.	Phase	G. M. T. h.	m.	s.	Type	
1955							
Mar. 1 (contd.)	Z	iP	14	12	01		
2	Z	iP	20	51	38		
	Z	e		51	51		
	Z	eL		59	30		
6	Z	e	06	38	08		
	Z	e	11	13	46	D	Small
	Z	i		16	56		
	Z	eP	13	47	36	C	Small
	Z	i		52	35		
	Z	i		56	26		
7	Z	iPKP	05	04	26	D	18S 169E
	Z	i		04	41		H = 04 44 44
8	Z	i	23	42	03		
9	Z	e	09	34	26		
10	Z	e	21	29	40		
11	Z	iP	09	22	45	C	
	Z	iP	22	55	18		
12	Z	ePKP	13	44	48		
	Z	e		47	40		
13	Z	iP	04	15	42		
	Z	i		15	58		
	Z	i	04	36	20		
14	Z	iP	13	23	30	C	52½N 173½W
	Z	ipP?		23	49	C	H = 13 12 04
	Z	e		24	04		
	Z	i		24	34		
	Z	i		25	31	D	
18	ZN	iP	00	18	10	C	54·5N 161E
	Z	i		18	28		H = 00 06 42
	Z	i		18	44		D = 7950 km
	Z	i		18	58		
	NE	iS		27	33		27S
	NE	iPS		28	27		24S
	NE	eSS		32	53		28S
	E	eLQ		37	15		
	N	eLR		41	00		
	NE	eL		57	00		

Date	Comp.	Phase	G. M. T.			Type	
1955			h.	m.	s.		
Mar. 18	Z	i	09	21	47		Seismic?
(contd.)	Z	e		22	51		
20	Z	i	02	54	20		Seismic?
21	Z	e	14	13	26		Microseisms
22	Z	iP	02	37	08		Microseisms
	Z	e		37	36		45N 28W
	Z	e		38	13		H = 02 33 09
	Z	iP	06	26	14		
	EZ	iPP	14	22	31		8·5S 92E
	Z	i		22	37		H = 14 05 04
	Z	ePPP		25	32		D = 11400 km
	E	ePS		32	21		
	E	ePPS		33	14		
	NE	eSS		37	46		
	E	e		47	15		
	NE	eL		57	00		
	NE	M	15	07	00		
	NE	M		11	00		
27	Z	e	14	51	06		
	Z	e		52	36		
28	Z	iP	01	03	07	C	53N 35W
	Z	i		04	14		H = 00 59 09
	Z	iS?		06	40		D = 2000 km
	Z	iP	14	51	11		37·6N 21·1E BCIS
	Z	i		51	16		H = 14 45 54
	Z	i		52	12		D = 2700 km
	Z	eS		55	24		No surface waves recorded.
31	Z	iP	18	31	31	C	8N 124E
	ZNE	iPP		35	33	D?	H = 18 17 00
	Z	i		37	37	C	D = 11900 km
	ZNE	ePPP		38	00		
	NE	iSKS		41	56		
	E	ePS!		45	15		
	NE	ePPS		45	50		
	NE	eSS		51	24		
	NE	e		54	15		
	N	eLQ	19	04	30		
	E	eLR		08	20		
	Z	eL		13	00		
	NEZ	M		15	30		20S 200μ
	NE	M		18	00		20S 200μ
	ZNE	M		26	30		18S 150μ

R. E. Ingram, S.J.

S E I S M O L O G I C A L O B S E R V A T O R Y

R A T H F A R N H A M C A S T L E

B U L L E T I N

for April 1 to June 30, 1955

Rathfarnham

Co. Dublin, Ireland

Date	Comp.	Phase	G. M. T. h.	m.	s.	Type	Remarks
1955							
Apr. 1	Z	iP	18	44	37	C	64N 21W
	Z	iPP		44	43	C?	H = 18 41 27
	Z	iPPP		44	47	C	D = 1340 km
	Z	iS		47	01		
	Z	iSS?!		47	05		
	Z	i		47	12		
	Z	eLR		47	29		
4	Z	eP	11	24	34	C?	
	Z	e		25	09		
	NE	eL	12	00	-		
	Z	iP	19	35	48	C	
	Z	i		36	15		
5	Z	i	14	41	47	D	
	Z	e		43	27		
	Z	iP	15	21	23	C?	25N 110W
	Z	i		21	33	C?	H = 15 09 15
	Z	e		25	35	D	D = 9000 km
	N	eS		31	36		
	NE	e		32	08		
	NEZ	eLR		45	00		
	NEZ	eLR		51	00		16S
	Z	iP	16	28	37	C	
	Z	iP?	19	31	03	D	
13	Z	iP	20	51	15	C	37·25N 22·25E
	Z	i		51	29		H = 20 45 45
	Z	iPP		51	48	C	BCIS
	Z	iPPP		52	01	C	D = 2900 km
	Z	ePcP		54	50	D?	
	Z	eS		55	54		
	EZ	eL		58	15		
14	Z	iP	01	40	48	C	30N 101·5E
	Z	iPcP		40	57	D?	H = 01 28 58
	Z	ePP		43	46	D	D = 8500 km
	Z	ePPP		45	21		
	Z	e		46	02		
	Z	e		46	42		
	NE	iS		50	37		
	N	i		50	45		
	E	iPS		51	21		
	NE	iSS		55	59		

Date	Comp.	Phase	G. M. T. h.	m.	s.	Type	Remarks
1955							
Apr. 14 (contd.)	E	eSSS	01	58	39		
	N	eLQ	02	01	20		
	E	eLR		05	37		
	NE	M		11	-		20s 350μ
	NE	M		15	-		
	NE	M		18	-		14S 200μ
	Z	iP	04	19	37	C	
15	EZ	iP	03	50	20	C	40N 74·5E
	Z	i		50	34	C	H = 03 40 52
	Z	ePcP		51	26	C	D = 6100 km
	Z	iPP		52	27	D	
	Z	i		53	02	C	
	Z	iPPP		53	27	C	
	E	e		57	10		
	NE	iS		58	03		
	E	ePS		58	27		
	NE	e	04	00	07		
	NE	eSS		02	00		
	N	eLQ		04	25		
	E	eLR		06	45		
	NE	eLg		09	55		
	N	M		10	40		27S 400μ
	NE	M		15	00		14S 300μ
	NE	M		18	00		14S 180μ
	Z	iP	04	20	39		Repetition
	Z	i		20	52		
	Z	iP	04	22	54		Repetition
	Z	ePcP		24	00		
	NE	eL		46			
	NE	M		49			
17	Z	e	04	02	19		
	Z	i	10	01	41		Seismic?
	Z	iP	18	47	04	D	52N 159·5E
	Z	i		47	07	C	H = 18 35 27
	Z	iPcP		47	19	D	h = 60 km
	Z	i		47	30		D = 8400 km
	Z	i		49	14		
	Z	ePP		49	54		
	E	eS		56	50		
	E	eL	19	12	00		
	E	eL		18	-		
	NE	eL		22	-		
	Z	iP	23	33	13	C	

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Apr. 18	Z	iP	19	25	05		Small.
	Z	i		25	15		
19	ZE	iP	16	52	38	D	39·25N 23E (BCIS)
	Z	iPP		53	10	D?	H = 16 47 17
	Z	iPPP		53	24	D	D = 2700
	Z	i		54	00		
	Z	iPcP		56	21		
	NE	iS		56	59		
	E	e		57	32		
	N	eLQ		59	50		
	E	eLR	17	00	15		
	N	M		01	00		
	E			03	00		
	Z	iP?	17	04	41		
	Z	iP	20	38	03	C	30S 72W
	Z	i		38	17	C	H = 20 24 05
	Z	i		38	40	C	
	Z	ePP		42	02	C?	D = 11,200 km.
	Z	e		42	33		
	E	eSKS		48	35		
	NE	eSKKS		49	21		
	NE	eSS		57	15		
	NE	e	21	04	30		
	NE	eLQ		08	-		
	NE	eLR		16			
	NE	M		18	30		
			23	30			No Z record until 20 April 7:10:-
21	Z	iP	07	23	37	C	39·5N 23E
	Z	i!		23	39	C	H = 07 18 16 (BCIS)
	Z	i		23	57	D	D = 2700 km
	Z	iPP		24	05	D?	
	Z	i		25	09	C	
	ZN	eS		27	58		
	Z	eLR		31	40		
	Z	M		34	10		9S
22	Z	P	10	08	(13)		Beginning masked by a small local disturbance
	Z	i		08	48		
	Z	iP	16	39	29	C	
	Z	i		39	42		
	Z	i		40	09	C	
24	Z	iP	13	08	59	D	
	Z	iP(?)		14	09	C	

Date	Comp.	Phase	G. M. T.			Type	
1955			h.	m.	s.		
Apr. 24 (contd.)	Z	i	13	14	21		
	Z	eL		29	00		
	Z	e	20	49	42		Very small
26	Z	e	03	14	30		
28	Z	iP	19	16	46	C	
	Z	i		16	52	C	
	Z	e		17	24		
	Z	e (S?)		26	31		
	Z	iPKP	22	06	14		
29	Z	i	08	33	23	C	Seismic?
	Z	i	20	30	53		Seismic?
30	Z	iP	01	44	40		
	Z	e		44	57		
	Z	iP	01	55	38		
	Z	i		56	04		
	Z	i	10	20	42		
	Z	e	14	17	48		
	Z	iP?	15	16	36		Seismic?
	Z	i	16	20	27		
May 1	07 hrs to 18 hrs no records.						
	Z	iP	21	27	41	C	
	Z	i		27	50		
	Z	e		31	00		
2	Z	i	11	18	50		Seismic?
3	Z	i	15	32	42		
	Z	i		35	43		
5	Z	i	06	04	24	D	
6	Z	i	00	17	26		
	Z	i		17	53		
	Z	iP	11	45	47	C	35·5N 36W
	Z	i		46	13	C	H = 11 39 53
	Z	eLR		55	24		D = 3100 km

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
May 6	Z	iP	16	47	36		
(contd.)	Z	e		48	00		
8	Z	iP	03	45	00	C	
	Z	e		45	29		
	Z	e		48	09		
	Z	eP	21	43	14		Microseisms
11	Z	iP	11	16	11	D?	
	Z	i	16	51	48	C	
	Z	iPKP	19	41	32		(Banda Sea)
	Z	i		44	57		
	Z	e		50	20		
13	Z	i	07	18	02	D	
14	Z	iP	13	44	47		Microseisms
	Z	iP	20	12	29		Microseisms
17	ZN	iP	15	02	53	D	
	Z	i		03	24	C	7N 94·5E
	Z	e		04	46		H = 14 49 47
	ZNE	iPP		06	34	C	
	Z	iPPP		08	32	D	D = 10250 km
	Z	e		08	44		
	NE	e		13	30		
	NE	iS		13	58		
	NE	ePS		14	58		
	NE	ePPS		15	48		
	NE	i		17	53		
	NE	eSS		20	21		
	NE	eSSS		24	10		
	N	eLQ		25	40		
	E	eLR		32	00		
	N	M		38	30		32S 80μ
	NE	M		42	00		27S 150μ
	N	M		46	00		20S 150μ
	E	M		49	00		22S 120μ
18	Z	iP	05	39	25		Microseisms
22	Z	iP	05	00	43		47·3N 11·6E (BCIS)
	Z	eLR		03	42		H = 04 57 43 D = 1380 km (P-H)
23	Z	iPKP	18	01	26		
	Z	i		01	46		Recording disturbed.

Date	Comp.	Phase	G. M. T.	Type	Remarks
1955			h. m. s.		
May 24	Z	iP	01 24 36	D	
	Z	e	24 50		
25	Z	eP	03 20 52		
	Z	i	21 09		
	Z	e	21 37		
	Z	e	23 47		
	Z	eP	04 09 54		
	Z	iP	12 28 55		D = 1650 km
	Z	i	29 14		46N 27W
	Z	e(S?)	31 47		H = 12 25 25
	Z	eL	32 15		
	Z	iP	18 32 56	C	
	Z	i	32 59	C	
	Z	e	33 15		
	Z	i	35 47	D	
26	Z	iPKP	16 42 40		Poor recording
	Z	ePP	45 28		
	NE	eL	17 26 00		
28	Z	iP	06 33 56	C	30½S 60W
	Z	i	34 06	C	H = 06 20 40
	Z	i	34 29	C	D = 10900km (P-H)
	Z	ipP(?)	34 42	C	h = 200k ?
	Z	e	36 43		
	Z	e	38 50		
	Z	e	53 39		
	Z	e	56 25		
29	Z	iP	13 42 21	C	
	Z	e	43 03		
	Z	e	43 48		
	Z	e	45 18		
	Z	e	49 37		
	Z	i	50 23		
	Z	ePP	15 51 55		
	Z	e	56 00		
	Z	iP?	17 53 47		Seismic?
	Z	i	54 00		
	Z	i	54 33		
	Z	i	55 05		
30	Z	iP	12 44 24	D	24·5N 142·5E
	Z	i	44 54	D	H = 12 31 41

Date	Comp.	Phase	G. M. T.			Type	Remarks
			h.	m.	s.		
1955							
May 30	Z	ipP	12	46	27		h = 600 km
(contd.)	NEZ	iPP		48	23	C	D = 11100 km
	Z	i		48	32	C	
	Z	ipPP		50	23	C	
	NEZ	iPPP		50	41	C	
	NEZ	iSKS		54	09		
	NEZ	iSKKS		56	22		
	NZ	iSP		56	42		
	NEZ	eSS	13	02	12		
	Z	eP'P'		10	00		
	Z	iPKP	17	14	31	D	
31	Z	iP	09	50	48	C	
	Z	i		50	52	C	
	Z	e		54	20		
	Z	iP	14	56	19	C	
	Z	e		57	29		
	Z	iP	18	10	02	C	
	Z	i		10	06		
June 1	Z	i	16	25	50	C	
	Z	e		27	37		
	Z	i	22	06	00		
2	Z	iP	00	30	44	C	51·5N 180E
	Z	iPcP		30	57	C	H = 00 18 56
	Z	i		32	15		D = 8500 km
	Z	ePPP		35	27	C	
	Z	iP		34	41		
	Z	eP	00	46	20		
	Z	iP	02	13	59	C	
	Z	i		14	08		
	Z	i(PcP)		14	12	C	
	Z	i	11	25	29		
	Z	iP	23	40	03	D,C	Small dilatation followed by large compression.
	Z	e		40	24		
	Z	ePP		40	37	D	
	Z	i		40	47	C	39·75N 26E (BCIS)
	Z	i		41	13	D	H = 23 34 28
	ZNE	eS		44	40		D = 2900 km
	Z	e(L)		46	30		

Date	Comp.	Phase	G. M. T.			Type	
1955			h.	m.	s.		
June 3	Z	iP or P)	05	28	36	D	
	Z	i(Pn/	11	42	03·5		61N 6E (BCIS)
	Z	i		42	12		H = 11 39 48
	Z	i		42	54		D = 1200 km
	Z	iS		43	50	C	Very clear record, interpretation
	Z	i		44	45	C	doubtful.
	Z	eLR		45	29		
	Z	e		45	58		
4	Z	iP	14	52	19	D	
	Z	eP	17	35	38		
5	Z	iP	02	05	05	D?	
	Z	i		05	25		
	NZ	iP	15	00	26	C	36·5N 1·5E
	Z	iPP		00	42	C	H = 14 56 13
	Z	e		01	50		D = 2000 km
	ZNE	eS		03	52		
	E	eLQ		05	30		
	N	eLR		06	30		
	NE	M		07	00		
	NE	M		11	00		
	Z	i	15	52	10		Seismic?
7	Z	i	01	00	41	C	
8	Z	iPKP	22	35	18		
	Z	e		36	16		
	Z	e		42	17		
10	Z	i	16	13	40		
	Z	i	19	15	50		
11	Z	$iPKP_1$	21	30	45	C	
	Z	$iPKP_2$		30	47	C	
	Z	e		35	48		
	Z	iP	22	31	58	D	
	Z	e		32	06		
	Z	e		32	42		
	Z	epP		34	09		
	Z	e	23	24	20		
12	Z	iP	20	42	42	C	
	Z	e		43	18		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
June 13	Z	e	14	05	01		
15	Z	e	15	56	23		
16	Z	e	06	24	40		
17	Z	iPKP	18	19	11	D	
18	Z	e	16	22	13		
19	Z	iP	21	36	51		
	Z	i		37	02		
	Z	i		37	15		
20	ZN	iP	12	19	12	D?	
	Z	i!		19	14	C	51·5N 180E
	Z	i		19	17		H = 12 07 25
	Z	i		20	05		D = 8350 km
	ZN	iPP		21	53		
	Z	e		22	13		
	NE	iS		28	55		
	NE	eSS		33	55		
	NE	eLR		43	20		
	N	M		47	30		20S 120μ
21	Z	i	03	50	31		Seismic?
		i		50	55		
	Z	i	04	25	27		Seismic?
	Z	i	07	53	30		Seismic?
	Z	iP	11	02	43		
	Z	i		02	51		
23	Z	iP	22	25	38	C	
	Z	i		25	44	C	
	Z	e		28	36		
27	Z	iP	10	24	31	D	
	Z	i		24	35		
	Z	e		24	54		
	Z	e	13	57	50		
28	Z	eP	04	35	08	D?	
	Z	e		35	46		
	Z	iPKP	17	50	09		
30	Z	iP	04	19	20		

R. E. Ingram, S.J.

SEISMOLOGICAL OBSERVATORY

RATHFARNHAM CASTLE

BULLETIN

for July 1 to September 30, 1955

Rathfarnham

Co. Dublin, Ireland

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
July 3	Z	eP	14	11	11	C?	
	Z	e		11	47		
	Z	e		14	34		
	Z	iP	14	38	17	D?	52N 178E
	Z	i		38	25	C	H = 14 26 32
	Z	iPcP		38	33	D	D = 8,400 km
	Z	i		38	49	D	
	Z	ePPP		42	41		
	NE	eS		48	02		
	Z	e		48	41		
	NE	eL	15	01	-		
	Z	e	15	05	28		
	Z	i	16	40	47		Seismic?
	Z	i	17	09	51		Seismic?
	Z	i	18	38	55		
4	Z	iP	14	31	32	C	51·5N 177E
	Z	i!		31	34	D	H = 14 19 44
	Z	iPcP?		31	43	C	D = 8300 km
	Z	ipP?		31	49	C	Deep?
	Z	i		32	25	D	
	Z	iP	14	40	18	D?	
	Z	i		40	29	C	
5	Z	iP	04	15	09		
6	Z	iP	02	05	58	C	51N 158E
	Z	i		06	07	D	H = 01 54 17
	Z	i		06	12	C	D = 8400 km
	Z	i		06	59	C	
	NE	eS		15	43		
	NE	eL		31	-		
	Z	i	10	32	47	C	
	Z	eP	10	40	58		
	Z	e		41	18		
	Z	ePKP	15	19	02		
	Z	i		19	14		
	Z	e		19	51		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
July 7	Z	e	09	14	52		
	Z	iP?	18	14	19	C	
	Z	ePKP1	18	38	49		Foreshock
	Z	iPKP2		38	55		
	Z	i!		38	58	C	
	Z	i	18	45	39		
	Z	iPKP1	18	57	49	C	D = 16400 km
	Z	iPKP2		57	54	?	20·5S 179·5W
	Z	i!		57	58	C	H = 18 39 11
	Z	ipPKP		00	08		h = 600 km
	Z	e		00	32		
	Z	iP	19	15	52	C	Java Sea
	Z	ipP?		18	21	C	Very Deep
9	Z	i	11	38	03		
	Z	eP	23	58	47		D = 2600
	Z	e		58	53		40N 22E
	NS	eS	00	02	59		H = 23 53 40
	E	eL		05	00		
10	Z	ePKP1	14	40	33	D?	
	Z	i!		40	44	C	
	Z	i		40	50	C	
	Z	e		41	06		
	Z	i	14	47	20	C	
11	Z	e	02	10	48		
	Z	e	14	55	56		Seismic?
	Z	iP	20	30	53		D = 6020 km
	Z	i		31	05		1S 13W
	NE	eS		38	35		H = 20 21 21
	NE	eL		47	00		
12	Z	eP	14	53	01	D?	Very small
	Z	i		53	16		
13	Z	i	05	03	42	C	Seismic?
	Z	ePKP1	10	14	36		28S 178·5W
	Z	iPKP2		14	41	C	H = 09 55 32

Date	Comp.	Phase	G. M. T.	Type	Remarks
1955			h. m. s.		
July 13	Z	e	10 15 53		h = 300 km
(contd.)	Z	ipPKP	16 01	D	
	Z	e	11 47 47		Very small
	Z	e	47 54		
14	Z	i	10 03 10		Local quarry explosion
			14.00 - 14.20		Disturbed
15	Z	i	04 53 09		
16	ZNE	iP	07 13 03	D	37N 27·5E
	ZE	i	13 07	C	H = 07 07 08
	ZE	iPP	13 43	C?	D = 3150 km
	ZE	iPPP	14 05	D?	
	NE	iS	17 53		
	NE	i!	18 09		15S 75μ?
	NE	iSS	19 00		
	N	iLQ?	19 59		
	N	i	20 24		
	E	eLR	21 30		
	NE	iLg	23 08		
	NE	M	24 00		20S 400μ
	NE	M	26 00		13S 250μ
	Z	iPKP	12 36 41	C	
17	Z	i	06 19 10	C	
	Z	i	07 25 35	D	
18th July 8.00 - 19th July 8.00 no Z record.					
19	Z	iP	08 56 43		
	Z	i	20 03 56		
20	Z	iP	21 12 50	D	
	Z	i	12 53	D	
21	Z	iP	11 58 30	D	15S 74W
	Z	i	58 43	C	H = 11 45 40
	Z	ipP	58 56	D	h = 100km
	Z	e	59 06		D = 10000km
	Z	e	59 16		
	Z	ePP	12 01 45		
	Z	i	12 36 29	C	

Date	Comp.	Phase	G. M. T.	Type	Remarks
1955			h. m. s.		
July 22	Z	i	15 35 53		Seismic?
July 23 - Aug.1 Interrupted records.					
26	Z	i	04 15 18	D	
	Z	i	15 33		
	Z	e	24 05		
27	Z	iP	01 33 36	D	
	Z		33 40		
	NE	e	44 02		
	N	eL	02 00 00		
	Z	iP	18 30 08	C	56·5N 153W
	Z	i	17	C	H = 18 19 08
	Z	iPcP	35	C	D = 7600 km
	Z	ePP	32 34		
	NE	eS	39 16		
	NE	eL	53 00		
31	Z	e	13 33 29		
Aug. 3	Z	e	19 57 04		
4	Z	eP	06 51 45		Very small
6	Z	$iPKP_1$	08 50 29	C	21·5S 177·5W
	ZN	$iPKP_2$	50 32	C	H = 08 31 25
	Z	i	51 31		h = 300 - 400 km
	Z	ipPKP	52 01	C?	D = 16350 km
	Z	isPKP	52 50		
	ZN	iPP	53 55		
	Z	ipPP	55 12	D	
	Z		56 15		
	ZNE	e(SKS)	57 55		
	ZNE	iSKSP	01 51		
	Z	eS PP?	04 29		
	Z		04 46		
	Z	iP'P'?	10 23		
	ZNE	eSS	14 00		
	NE	eL	35 00		
9	Z	i	00 51 47		Seismic? Very small.
14 Aug. 8·00 - 15 Aug. 8·00 No Z record.					
16	Z	iPKP	12 05 39	D	6S 155W
	Z	i	05 44	D	H = 11 46 58
	Z	e	06 02		D = 14000 km

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Aug. 16	Z	ipPKP	12	06	38	D	h = 200 km
(contd.)	Z	iPP		07	52	C	
	Z	iSKP		08	47	D	
	Z	i		08	52		
	Z	i		09	06		
	Z	e		10	03		
	Z	iPPP		10	21	D	
	NE	eSKS		12	30		
	N	eSKSP		17	18		
	NE	eSS		24	20		
	ZNE	e		34	40		
	ZN	eLR		47	00		
17	Z	e	15	18	22		
18	Z	e	00	18	39		
19	Z	i	07	54	37	D	
	Z	iP	16	40	14	D?	
20	Z	ePKP	19	16	51		
21	Z	iP?	17	49	35	D	D = 13500 km
	Z	i		52	34	C	3S 137·5E
	ZE	iPP		54	18	C	H = 17 33 58
	Z	i		55	04	D	First movement is very small
	Z	ePPP		57	18		
	ZNE	e		58	47		
	NE	eSKKS	18	01	00		
	ZNE	iPS		04	30		
	Z	e		07	02		
	NE	eL		30	00		
23	Z	iP	15	43	58	C	43·5N 128W
	Z	i		44	01	C	H = 15 32 40
	Z	e		44	17		D = 6900 km
	Z	ePP?		46	27		
	ZNE	eS		53	21		
	NE	e		57	10		
	ZE	eLR	16	04	00		
	Z	e	23	03	20		
24	Z	iPKP	04	54	52	C	D = 16100 km
	Z	i		55	28	C	18S 178W
	Z	ePP		58	19		H = 04 36 22
	Z	eSKS?	05	01	08		h = 600 km

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Aug. 26	Z	iPKP	21	12	46	C?	
	Z	e		13	00		
28	Z	iP	20	25	08	D	14N 91W
	Z	i		25	26		H = 20 13 30
	Z	e		25	50		h = 60 km
	Z	i		26	02	C	D = 8400 km
	Z	ePP		27	59		
	Z	i		28	20	C	
	Z	ePPP		29	38		
	N	e		34	12		
	NE	eS		34	54		
	N	e		42	40		
	N	eLQ		49	00		
	NEZ	eLR		51	00		
	N	M		59	30		
30	Z	e	12	13	15		
31	Z	i	12	32	01		Seismic? Microseisms
Sept. 2	Z	i	12	29	43	D	Microseisms
3	Z	iP	05	33	11	C?	Microseisms
	Z	i		33	20		
	Z	eP	12	47	59	D?	14N 91W
	Z	ipP		48	33	C	H = 12 36 20
	Z	i		49	21		h = 100 km
	Z	iPP		51	04	D?	D = 8400 km
	Z	iPPP		53	12		
	NE	eS		57	50		
	NZ	ePS?		59	09		
	Z	i	13	03	12		
	NZ	eLR		12	00		
	NZ	M		22	00		
	Z	iPKP	16	41	28	D?	1N 123E
	Z	iPP		42	15	C?	H = 16 22 52
	Z	i		42	54		D = 12600 km
	Z	ePPP?		45	05		
	NEZ	eSKS		48	03		
	NEZ	ePS		51	40		No surface waves!
	NEZ	eSS		58	20		
4	Z	i	11	48	43		
	Z	iP	19	21	49	C	
	Z	i		22	02	C	
	Z	e		25	10		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Sept. 5	Z	i	18	17	57		Seismic?
	Z	i		18	06		
	Z	i		19	40		
	Z	i		20	46		
7	Z	iP	03	31	48		
	Z	i		31	54		
	Z	ePP		35	00		
8	Z	e(P)	02	17	43		Very small
	Z	ePP		21	12		
	Z	e		24	58		
	Z	e		26	01		
	Z	iPKP	03	46	33	C	
	Z	i!		46	38	D	7S 155·5E
	Z	i		46	45	C	H = 03 27 14
	Z	ePP		48	47	C?	D = 14500
	ZN	ePKS		49	58		
	Z	i		50	20		
	Z	e		52	50		
	Z	i		55	05		
	ZNE	eL	04	22	00		
	Z	i	05	28	20		
	Z	iP?	11	10	51	D	
	Z	e	17	13	43		
	Z	e		18	50		
10	Z	iP	06	05	50		Microseisms
12	ZNE	iP	06	15	59		32N 30E (BCIS)
	ZE	i		16	14		H = 06 09 25
	ZN	iPP		16	59		h = 50 km
	Z	iPPP		17	24		D = 3700 km
	ZNE	i		17	48		
	NE	iS		21	13		
	N	i		22	01		
	E	i		22	20		
	NE	eLQ		23	31		
	N	e		24	14		
	NE	eLR		25	05		
	NE	M		26	00		20S 50μ
15	Z	i	04	48	18	D	Microseisms
18	Z	i	11	42	54	D	Very small. Seismic?

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Sept.20	08.00 - 20.00		No	Z	record.		
21	Z	e	06	28	33		
	Z	e		29	23		
	Z	iPKP	06	58	54		Microseisms
	Z	e		59	06		
	Z	i	12	49	34		Seismic?
22	Z	eP	03	38	(17)		24N 123E
	Z	i		38	33		H = 03 25 03
	Z	i		39	45		D = 10100 km
	NZ	iPP		41	38	C	Very small beginning
	Z	iPPP		44	06		
	NE	e		47	55		
	NE	eS		49	12		
	N	ePS		50	24		
	NE	eSS		55	30		
	NE	eLQ		06	10		
	NE	eLR		11	10		
	NE	M		15	00		20S 80μ
	N	M		19	30		15S 80μ
	N	M		24	30		15S 50μ
	Z	i	15	30	37	D	Microseisms
23	Z	iP	15	18	27	D	27N 101·5E
	Z	iPcP		18	37		H = 15 06 19
	Z	i		18	48	D	D = 8800 km
	Z	i		19	03	C	
	Z	i		19	44	C	
	Z	iPP		21	29	C	
	Z	iPPP		23	10	D	
	NE	eS		28	30		
	NE	iSS		34	16		
	Z	iPKKP		36	29		
	NE	eSSS		37	08		
	N	eLQ		40	46		
	NE	eLR		45	00		
	NE	M		52	20		18S 60μ
	NE	M		54	30		20S 60μ
	NE	M		55	50		17S 80μ
	Z	i	18	03	51		
	Z	i	19	20	54		
	Z	i	23	32	52		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Sept.23 (contd.)	Z	iP	10	34	33	D	
	Z	i		34	46		
	Z	i		36	32		
	Z	iPP		38	49		
25	Z	iP?	08	42	31	D	
	Z	i	19	01	39		
	Z	eP	19	13	47		
	Z	i		14	28		
	Z	ePP		18	26		
	Z	eL	19	51	00		
26	Z	iP	08	39	48	D	15·5N 92·5W
	Z	iPcP		39	58	C?	H = 08 28 20
	Z	ipP		40	38	D?	h = 200 km
	Z	isP		40	50	C?	D = 8400 km
	Z	i		41	00	C	
	Z	iPP		42	40	C	
	Z	i		43	13		
	Z	iPPP		44	34	D	
	Z	i		44	51		
	Z	e		48	14		
	ZNE	eS		49	(21)		
	ZNE	e		50	55		
	NE	eSS		54	00		
28	Z	eP	18	21	(45)		Time by measurement. Faint record.
29 - 30 Sept.		No photographic record.					

R. E. Ingram, S.J.

SEISMOLOGICAL OBSERVATORY

RATHFARNHAM CASTLE

BULLETIN

for October 1 to December 31, 1955

Rathfarnham

Co. Dublin, Ireland

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Oct. 2	Z	i	16	01	33		
	Z	i		02	30		
	Z	i		04	53		
	Z	i	18	06	48		
	Z	i		07	24		
	Z	e	19	12	06		
	Z	i	19	23	44		Seismic?
	Z	i	19	57	32		
3	Z	iPKP	10	20	38		
	Z	i		22	09		
5	Z	iP	09	09	51		
	Z	i		10	06		
6	Z	i	11	13	14		
	Z	eP	11	17	10		36S 70W
	Z	e		17	28		H = 11 03 16
	Z	i		23	17		h = 150 km
	Z	e		25	58		Microseisms
	NE	eL		47	00		
9	Z	iP	23	25	22		
		i		25	34		
10	Z	iPKP	09	16	51	C?	1·4s 0·6μ
	Z	i		17	09		5S 153E
	Z	i		17	25		H = 08 57 44
	Z	i		18	22		D = 14200 km
	EZ	ePP		18	48		
	NEZ	ePKS		20	25		
	Z	ePPP		21	47		
	N	eSKS		23	54		
	NE	eSKKS		26	02		
	NE	ePPS?		30	25		
	NE	eSS		36	19		44s (N)
	NE			39	00		
	NE	eSSS		41	50		
	NE	eLQ		56	20		
	NE	eLR	10	00	00		
	NE	M		07	00		30s 150μ

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Oct.10	NE	M	10	10	20		24s 110μ
(contd.)	NE	M		15	00		24s 100μ
	NE	M		20	00		18s 60μ
11	Z	e	04	21	41		
	Z	e		23	17		
13	Z	iPKP	09	46	05	C	9·5S 161E
	Z	i		46	07	C	H = 09 26 44
	Z	i		46	33		D = 15000
	Z	iPP		48	43	C	
	Z	i!		49	35		
	NZ	iPKS		49	44		
	Z	i		50	06		
	Z	i		53	24		
	ZNE	e		55	30		
	ZNE	e		57	45		
	ZNE	e		58	32		
	NE	eSS	10	06	40		
	NE	eL		24	--		
16	Z	e	17	27	25		
18	Z	i	15	48	22		
19	Z	iP	10	06	37	C	1·2s 3μ
	Z	i		06	42		49·5N 155E
	Z	i		06	50		H = 09 54 43
	Z	i!		07	01		D = 8500km
	Z	ePP		09	27		
	NE	eS		16	24		
	N	eL		31	20		
	Z	e	20	49	52		Microseisms
20	Z	iP	07	39	36		
21	Z	eP	04	45	27		
	Z	i		48	13		
	Z	i		49	50		
	Z	e	06	33	09		
	Z	$iPKP_1$	19	21	12	D	1·4s 0·4μ
	Z	$iPKP_2$		21	17	D	
	Z	i		21	42		21S 179W
	Z	$ipPKP_1$		23	42	D	H = 19 02 40
	Z	$ipPKP_2$		23	50	C	h = 600 - 700 km
	Z	i		24	03		D = 16400 km

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Oct.21	Z	iSPKP?	19	24	36		
(contd.)	Z	ePP		25	43		
	Z	e		28	04		
	Z	i		29	00		
	Z	e		39	00		
	NEZ	eSS		42	50		
	Z	ePP	23	29	17	C	
	Z	i		30	18		
	ZNE	e		32	28		D = 12800
	Z	e		34	56		
	ZNE	eSS		43	30		
	ZNE	eL	00	02	10		
25	Z	iP?	03	13	43		Very small
	Z	i		13	54		
	Z	iPP?		14	04		
	Z	i	12	00	48		
	Z	iP	16	46	08		
	Z	i		46	42		
27	Z	iP	00	15	49	C	Small
	Z	i	00	16	58	D	
	Z	iPKP	03	44	38		
29	Z	e	03	26	52		
	Z	e	21	07	24		
	Z	e		07	32		
30	Z	iPKP	02	20	14		
	Z	i	02	30	51		
	Z	i		31	40		
	Z	iPKP$_1$	19	39	20	D	19S 180E
	Z	iPKP$_2^1$		39	23	D	H = 19 20 50
	Z	i		39	47		h = 600 - 700 km
	Z	e		40	01		
	Z	epPKP		41	38		
	Z	ePP		42	52		
	Z	ePPP		45	53		
31	Z	iP	01	17	36	D	
	Z	i		17	46	D	
	Z	e		18	09		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Oct.31	Z	i	01	18	27	D	
(contd.)	Z	e		19	52		
	Z	e	08	24	47		
Nov. 2	Z	iPP	18	55	03		Microseisms
	Z	e		58	37		
4	Z	e	23	04	18		Microseisms
	Z	e	23	52	18		
5	Z	iPKP	04	13	07	D?	
	Z	iPKP?	07	51	36	D	
	Z	e		54	07		
9	Z	iP?	05	52	53	C?	
10	Z	ePKP	02	03	29		15S 174W
	Z	iPKP		03	35	D	H = 01 44 04
	Z	i		03	42		h = 100 km
	Z	ipPKP		04	03		D = 15700 km
	Z	ePP		06	34		
	Z	e		06	59		
	Z	e		07	52		
	NE	e		15	17		
	Z	e		16	42		
	ZNE	e		17	50		
	ZNE	eSS		26	43		
	Z	i	04	12	28	D	
11	Z	iP?	18	34	34	D	Microseisms
	Z	i		34	49		
	Z	e		35	39		
12	Z	iP	05	39	55	C	25N 35E
	Z	i		40	04	D	H = 05 32 15
	Z	i		40	15		BCIS
	Z	ePP		41	09	C	
	Z	i		42	01	C	
	Z	$iPKP_1$	12	38	24	D	1·2s 22½S 179E
	Z	$iPKP_2$		38	31	D	H = 12 19 44
	Z	i!		38	39	D	1·0s h = 600km
15	Z	iP	10	17	56		55·5N 155W
	Z	i		18	04		H = 10 06 49
	Z	i		18	15		D = 7800km

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Nov.15 (contd.)	Z	e	10	18	43		
	NE	e(S)		27	15		
	NE	eL		40	-		
17	Z	eP	07	07	00		
	Z	epP		07	45		
	Z	e		08	29		
19	Z	i	08	45	10		Seismic?
	Z	e		45	39		
21	Z	e	21	24	55		
22	Z	i	06	32	32		Poorly defined record
	Z	i		32	40		
	Z	i		32	58		
	EZN	iP	06	41	11		50·5N 157E
	Z	i		41	43		H = 06 29 29
	Z	i		43	13		h = 60km
	Z	ePP		44	03		
	Z	e		44	09		D = 8300km
	NE	iS		50	49		
	NE	e		51	19		
	NE	ePS		51	46		
	E	eLQ?		01	30		
	N	eLR		05	10		
	N	M		09	00		30s 150μ
	N	M		13	00		
27	Z	i	17	31	35		
29	Z	i	00	27	45		Seismic?
	Z	e		29	24		
	Z	e	06	15	20		
	Z	e	09	13	20		
Dec. 4	Z	iP	14	10	09	D?	Small
	Z	i		10	18		
6	Z	iP	04	44	00		
7	Z	iPP	15	20	37		26·5N 142E
	N	e		20	57		H = 15 03 11
	NE	iSKS		27	17		D = 10800km
	NE	iPS		29	19		
	N	iPPS?		30	08		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Dec. 7 (contd.)	NE	e(SS)	15	36	00		
	E	eSSS		37	10		
	E	eLQ		43	30		
	N	eLR		46	00		
	N	M	16	00	00		30s
8	Z	e	23	05	23		
	Z	e		07	49		
9	Z	i	05	08	09		Seismic?
	Z	e	21	28	24		
	Z	i		29	42		
10	Z	e	06	08	17		
	Z	e		09	50		
	Z	i	20	39	16		
12	Z	e	09	17	45		
14	Z	iP	11	03	33		Confused by microseisms
	Z	e		04	24		
	Z	i		05	06		
	Z	i		15	18		
	ZNE	e		19	51		
	Z	e	13	18	06		
16	Z	i	03	33	01		
	16th 08 hrs. - 17th 09 hrs. No Z record.						
18	Z	eP	05	45	55		
	Z	e		46	18		Microseisms
	Z	e		47	40		
	Z	e	22	49	47		Microseisms
19	ZN	e	03	43	46		Microseisms
	Z	i		47	50		
	Z	e	04	00	16		
23	Z	e	23	38	23		
24	Z	iPKP	08	39	48	D	
	Z	e		39	54		
	Z	e		45	53		
25	Z	e	11	20	32		

Date	Comp.	Phase	G. M. T.			Type	Remarks
1955			h.	m.	s.		
Dec.26	Z	iP	09	21	30	C	Microseisms
	Z	i		23	46		
27	Z	ePKP	02	47	30		
	Z	e		47	52		
29	Z	e	05	06	42		
	Z	i	12	48	03		Seismic? Microseisms.
30	Z	i	09	47	02		
31	Z	e	20	38	32		

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