

RATHFARNHAM CASTLE.



BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

FEBRUARY 1935.

Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude. 52m.

Foundation : Boulder clay resting on limestone.

INSTRUMENTS :

1. MILNE-SHAW Seismometer. (E.W)

Period.	Damping Ratio.	Magnification.
12s.	20:1	260

2. WEICHERT-O'LEARY Seismometer (1700 kgs.) (NS,EW).

Date.	Phase.	G.M.T.			Per.	Dist.	Remarks.
		h.	m.	s.			
Feb. 7.	e	18	11	00			
	eL	18	16	17			Very small
	eM	18	23	40			
Feb. 9.	e	19	48	54			
	eL	20	03	00			
	M ₁	20	09	48			
	M ₂	20	12	05			
	M ₃	20	18	06			
	F	20	31	12			
Feb. 22.	i	17	27	41			iP ?
	i	17	35	51			iS ?
	M	17	52	24			
Feb. 25	iP	02	57	05			
	iS	03	01	45		2950	Crete.
	L	03	04	34			
	M	03	06	53			

13th. March, 1935

J.P. McCARTHY S.J.

DIRECTOR.

RATHFARNHAM CASTLE.

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

MARCH 1935.



Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude 52m.

Foundation. Boulder clay resting on limestone.

INSTRUMENTS :

1. MILNE-SHAW Seismometer. (E.W.)

Period.	Damping Ratio.	Magnification.
12s.	20:1	260

2. WEICHERT-O'LEARY Seismometer. (1700 kgs.) (NS,EW.)

Date.	Phase..	G. M. T.	Per.	Dist.	Remarks.
		h. m. s.	s.	km.	
Mar. 5.	e	10 48 00			
	M ₁	10 54 40			
	M ₂	56 20			
	M ₃	59 50			
Mar. 29.	e	13 46 02			
	i	13 49 45			
	e	13 57 12			
	i	13 57 34			
	i	14 00 19			
	M ₁	14 20 15			
	M ₂	14 23 50			
Mar. 31.	eP	03 26 29			
	eS	03 30 30		2450	
	L	03 32 46			
	II	03 35 13			

9th. April, 1935

J.P. McCarthy S.J.

Director.

RATHFARNHAM CASTLE.



BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

APRIL 1935.

Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude 52m.

Foundation Boulder clay resting on limestone.

INSTRUMENTS :

I. MILNE-SHAW Seismometer. (E.W.)

Period.	Damping Ratio.	Magnification.
12s.	20:1	260

2 WEICHERT-O'LEARY Seismometer (1700 kgs.) (NS,EW.)

Date.	Phase.	G. M. T.	Per.	Dist.	Remarks
April		h. m. s.	s.	km.	
3	e	11 23 24			
	e	26 24			
	M	35 00			
11	iP	23 23 08			
	iS	29 46		4890	Southern coast of Caspian Sea.
	SS	32 52			
	L	36 26			
	M	41 46			
12	e	13 03 00			
	M	13 49			
19	iP	15 29 04			
	PP	29 39	11		
	iS	33 43	22	2890	
	SS	35 09			
	L	36 21			
	M	38 57	18		
	M	40 09	13		
	M	42 57	10		
19	eP	18 03 31			
	eS	08 08		2910	Repetition of pre-ceeding shock.
	L	09 20			
	M	11 33			
19	eP	20 37 36			
	iS	42 06		2810	Another repetition
	L	44 16			
	M	46 05			
20	iP	5 16 42			
	iPPP	17 32			
	iS	21 18		2900	Another repetition.
	iSS	22 34			
	L	23 35			
	M	26 27			
20	eP	22 15 14			
	iS	26 04		9900	
	eL	43 25			
	M	57 30			

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

APRIL 1935.

Date.	Phase.	G. M. T.	Per.	Dist.	Remarks.
		h. m. s.	s.	kms.	
April 24	e	16 02 38			
	e	13 40			
	eL	40 13			
	M	48 05			
24	e	19 04 14			
	e	11 00			
	eL	28 00			
	M	36 20			
27	iP	19 09 03			
	eS	12 54		2310	Destructive in
	M	16 51			the Island of St. Michael, Azores.

J.P. McCarthy S.J.,
Director.

16th. May, 1935.

RATHFARNEAM CASTLE.

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNEAM CASTLE.
RATHFARNEAM, DUBLIN, IRISH FREE STATE.



MAY - JUNE 1955.

Geophysics Library

Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude 52m.

Foundation : Boulder clay resting on limestone.

INSTRUMENTS :

1. MILNE-SHA seismometer. (E.M.)

Period.	Damping Ratio.	Magnification.
12s.	20:1	260.

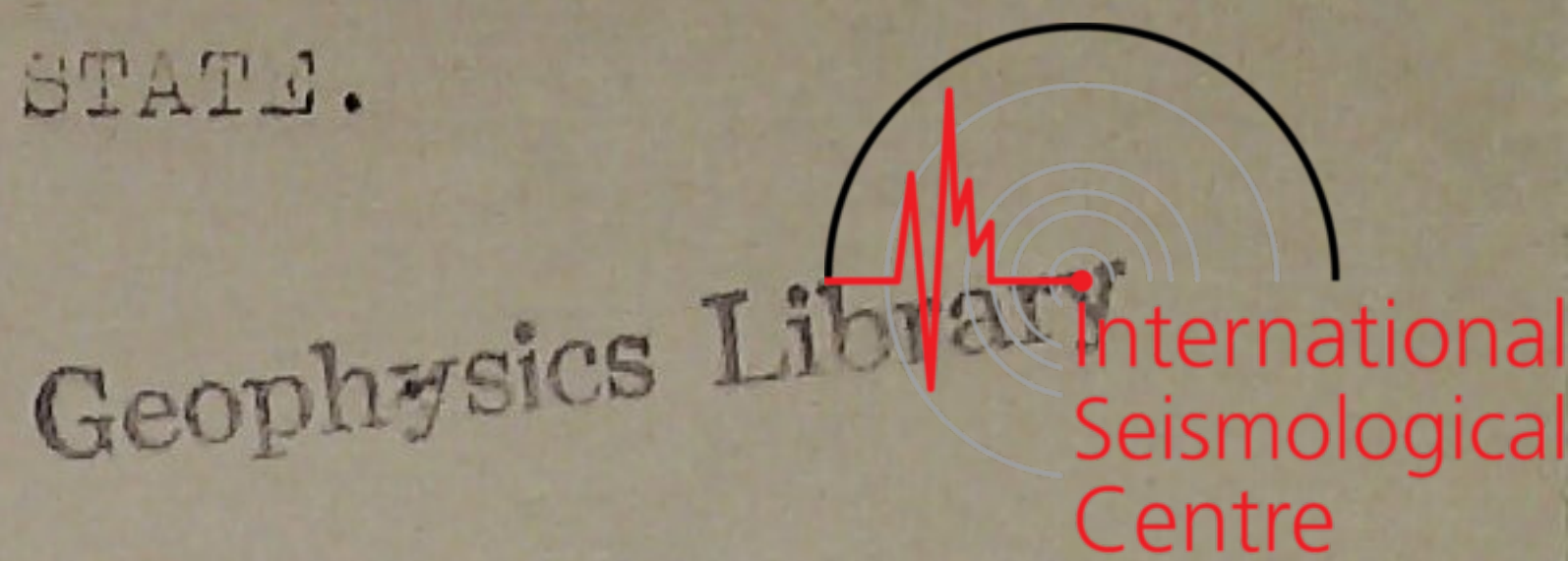
2. O'LEARY Seismometer. (1700 kgs.) (NS, E.M.)

Date.	Phase.	G.	M.	I.	Per.	Dist.	Remarks.
May 11	eP i iS L M	10	31 32 37 42 45	26 29 11 41 59		3980	
4	e L	23	50 59	13 38			
7	e L	07	45 53	50 20			Very small.
13	e eL M	20	24 34 38	20 17 20			
14/15	e i i i i i eL L	23 00	43 50 52 52 02 02 07 18	02 09 10 44 03 56 44 20			
15	e e eL M	02	11 19 32 36	24 32 42 01			

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATEFARNHAM CASTLE.

RATEFARNHAM, DUBLIN, IRISH FREE STATE.

MAY - JUNE 1955.



Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
			h.	m.	s.		
May 16	e L M	17	33 50 01				
16	e eL M	21	12 50 56			35	
19	e eL M	6	08 14 25	20 30			
21	e M	7 8	49 09	23 10			
22	eM F	8 9	57 07	12			
23	e e i i	18	06 12 13 16	45 59 27 46			Very small.
24	e e e iL M M	5 6	50 54 01 02 22 30	48 53 13 04 23 12			
25	e L M F	0 1 2	35 58 06 06	10 00 22			
26	e e M	22 23	28 30 06	22 00 20			
27	e L M	3 4	55 32 38	21			
28	e F	17 18	41 15				

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

MAY - JUNE 1935



Geophysics Library

Date.	Phase.	G.	M.	T.	PER.	Dist.	Remarks.
		h.	m.	s.			
May 29	e	20	16				
	M	20	32				
	F	20	59				
30	iP	21	42	42			
	PPP		45	51		4190	
	iS		50	40			Quetta.
	i		53	03			
	iSS		56	11			
	i		58	08			
	L		59	31			
	M	22	04	04			
31	e	02	38	06			
	M		41				
	F		58				
31	e	07	20	25			Possibly not seismic.
	i	07	20	40			
31	e	06	39	25			
	i		39	37			
	F	09	40				
JUNE.							
1	e	04	47	40			
	e		52	30			
	eL	05	05	10			
	M		07	45			
	M		11				
"2	i	09	26	11			
	eL		47	45			
	M		53	48			

Station closed 19th - 30th.

J.J. McAsey S.J.

Director.
19th July 1935

RATHFARNHAM CASTLE.

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

JULY 1935.

Geophysics Library



Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude 52 metres.

Foundation: Boulder clay resting on limestone.

Instruments:

1. Milne-Shaw Seismometer. (E.W.)

Period	Damping Ratio	Magnification
12s.	20:1	260

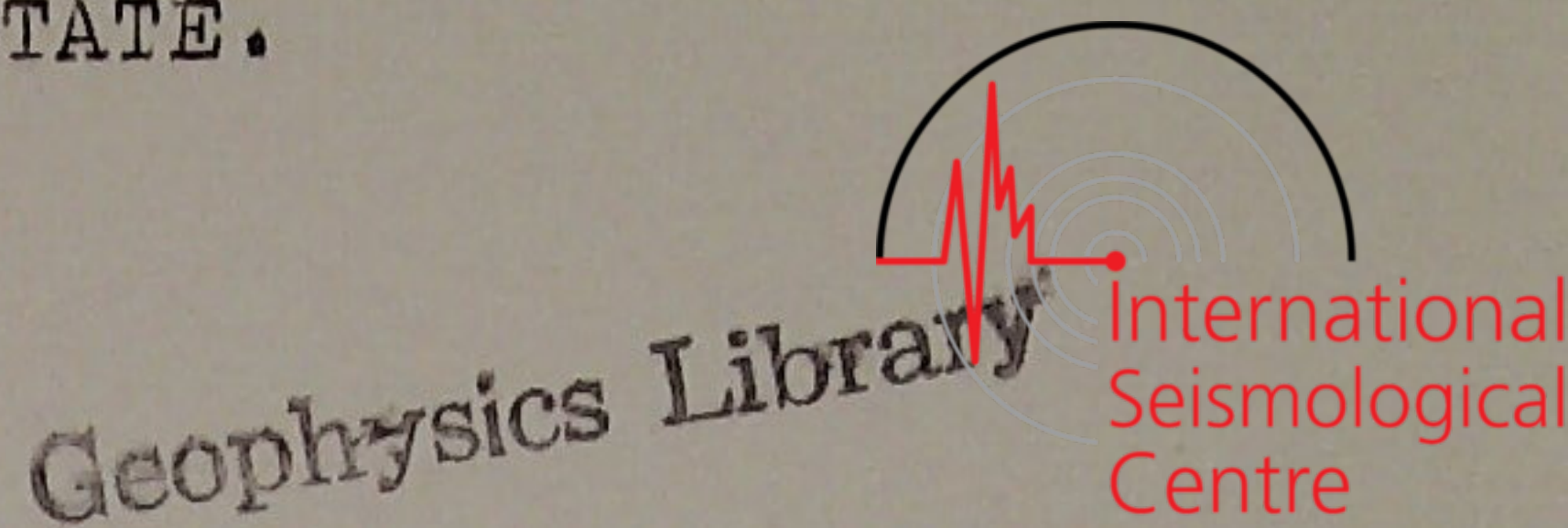
2. O'Leary Seismometer. (1700 Kgs. NS., EW.)

Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
July		h.	m.	s.		km.	
7	eP	14	59	20			
	eS	15	06	47			
	eSS		10	27			
	eSSS		12	10		5745.	
	L		15	12			
	M		19	02			
8	iP	12	53	01			
	iS	13	01	04			
	L		10	28		6390.	
	M		14	54	22		
	M		20	13	15		
11	iP	08	45	23			
	eS		53	30			
	eSS		57	35		6450.	
	L	09	04				
	M		08	22			
11	e	22	53	46			
	L	23	04	32			
	M		09				
	M		13	07			
16	e	16	43	50			
	e		55	36			
	eL	17	05	00			
	L		09	20	21		
	M		16	17	17		

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

JULY, 1935.



Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
		h.	m.	s.		km.	
July.							
I7	e eL M M	I4	25 42 45 52				Large wind movements masked earlier phases.
I9	iP ePP ePPP iS iSS iSSS eL M M F	0I	02 36 05 49 09 54 13 09 19 01 22 19 29 20 36 40 43 03 51		I6	9260	
26	iP S SSS eL M	05	05 51 12 08 15 20 17 28 21 30			4490	Very small.
26	eL M	II	09 35 13 25				Earlier phases masked by wind.
29	eP'I iP'I iP'2 i i i e e e eSKPKPKS e i ePSKPKS i e i i i iSS e e e	07 08	57 50 58 01 58 39 59 18 01 14 01 37 02 08 03 54 07 35 08 47 09 34 11 32 13 22 13 29 13 57 16 27 20 35 22 49 23 10 24 34 28 00 28 41			18165	Probably North. Island New Zealand.

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RATHFARNHAM, DUBLIN. IRISH FREE STATE.

JULY, 1935.

Geophysics Library



Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
		h.	m.	s.		km.	
July.							
29 (Cont.)	eSSS	08	29	35			
	i		32	13			
	i		38	52	20		Very remarkable Phase.
	e		46	00	26		
	L		57	52			Surface waves of small amplitude.
	M	09	06	30	20		Deep focus.
29	e	23	34				
	M		50				Very small.
	F	00	21				
30	eP	06	15	50			
	ePPP		20	11			
	eS		25	14			
	eSS		30	26		7970.	Small.
	L		40	46			
	M		45	36	21		

Station closed 1st-7th.

James J. McAsey, S.J.

Director.

2nd. August, 1935.



AUGUST 1935.

Geophysics Library

Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude 52m.

Foundation: Boulder clay resting on limestone.

Instruments:

1. Milne-Gray Seismometer. (L.W.)

Period.	Damping Ratio.	Magnification.
12s.	20:1.	260.

2. O'Leary Seismometer. (1700 kgs.) (MS, EM.)

Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
August.		h.	m.	s.	sec.	km.	
1	e	14	20	20			
	e		24	32			
	e		30	18			
	M	15	06	32			
1	15	16	29	41			Distance from S-F.
	L		43	00		8365	Epicentre 110 N. 86. W.
	--		54				(Jesuit S. A.)
3	eP	1	23	31			
	iSKS		34	13			
	eS		34	31			Minute-marks failed.
	iPS		34	58			
	iPPs		36	03			Time by measurements.
	e		36	33			
	e		37	13		10,380	
	eLS		40	33			
	e		43	13			
	e		46	38			
	e		48	01			
	L		54	16			
	M	02	01	00	30		

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.



RATHFARNHAM, DUBLIN, IRISH FREE STATE.

AUGUST 1935.

Geophysics Library

Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
August.		h.	m.	s.	sec.	km.	
22	e	20	40	56			Earlier phases masked by microseisms.
	e		46	28			
	eL		50	26			
	M		57	33			
24	e	15	55	32			Microseisms conceal earlier phases.
	eL?		59	04			
	e	16	06	08			
	M		08	07			
26	e	04	52	53			
			55	55			
			57	53			
		05	04	20			
	i	05	06	08			
			10	45			
	eL		17	56			
	M		20	29			
26	e?	14	58	49			
	i		05	43			
			7	04			
	i		13	35			
	L		20	26			
	M		24	29			
31	e	18	18				
	eL		24				
	F	19	27				

James J. McAsey, S.J.

Director.

16th September 1935.

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.



SEPTEMBER 1935

Geophysics Library

Lat. 53° 17' 55" N. Long. 6° 16' 57" W. Altitude 52m.

Foundation: Boulder clay resting on limestone.

Instruments

1. Milne-Shaw Seismometer. (E.W.)

Period. Damping Ratio. Magnification.

12s. 20:1. 250.

2. O'Leary seismometer. (1700 Hgs. No., E.W.)

Date.	Phase.	G.	L.	T.	Per.	Dist.	Remarks.
Sept.			h.	m.	s.	sec.	km.
4	eP	01	37	12			
	e			48			
	es		45	37		6765.	Very small.
	e		46	05			
	L		57	01			
	..	02	01	40			
4	eP	01	50	51			Superimposed
	ePP		54	33			on preceding
	e	02	01	17		10100	shocks.
	i(amb)			21			
	is			49			
	L		22				
	L		29	00	22		
	L		37	20	15		
4	e	04	10	50			Small.
	L		14	20			
	L		19	18			



Date.	Phase.	G.	M.	T.	Per.	Dist.	Remarks.
Sept.		h.	m.	s.	sec.	kms.	
9	eP	06	32	26			
	e		35	24			
	e		36	32			
	e		37	15			
	e		38	07			
	e			52		12,700	
	eSMB		42	48			
	eS		44	43			
	eSB		45	22			
	e		53	10			
	L	07	07	30			
	M		14		35		
11	iP	14	16	14			
	oP			28			
	iPP		19	18		8,845	
	iS		26	19			
	iSB			42			
	M		50		30		
20	e	02	06	20			
	e		07	21			heavy microseisms
	e		09	57			mask early phases.
	i		10	47			
	i		13	00			Time by measurement.
	i		20	02			
	i		26	10			
	i		30	47			
	L		45				
	M		50	20	25		
	M		52		25		
20	e	05	46	10			
	e		52	51			
	e		55				
	e	06	01	25			
	L		21	15			
	M		44	08			
24	eP	22	23	06			
	e		31	37			
	e(S)		32	09		(7520)	
	L		43	40			
	L		54	06			
25	e	10	40	53			
	e		42	00			
	e		45	52			
	e		49	24			
	eL	11	21				
	M		35	17			



OCTOBER-NOVEMBER 1935.

Lat. 53° 17' 55" N. Long. 6° 16' 57" W. Altitude 52m.

Foundation: Boulder clay resting on limestone.

Instruments:

1. Milne-Shaw seismometer. (L.S.S.)

Period. Damping Ratio Magnification.

12s. 20 1 260

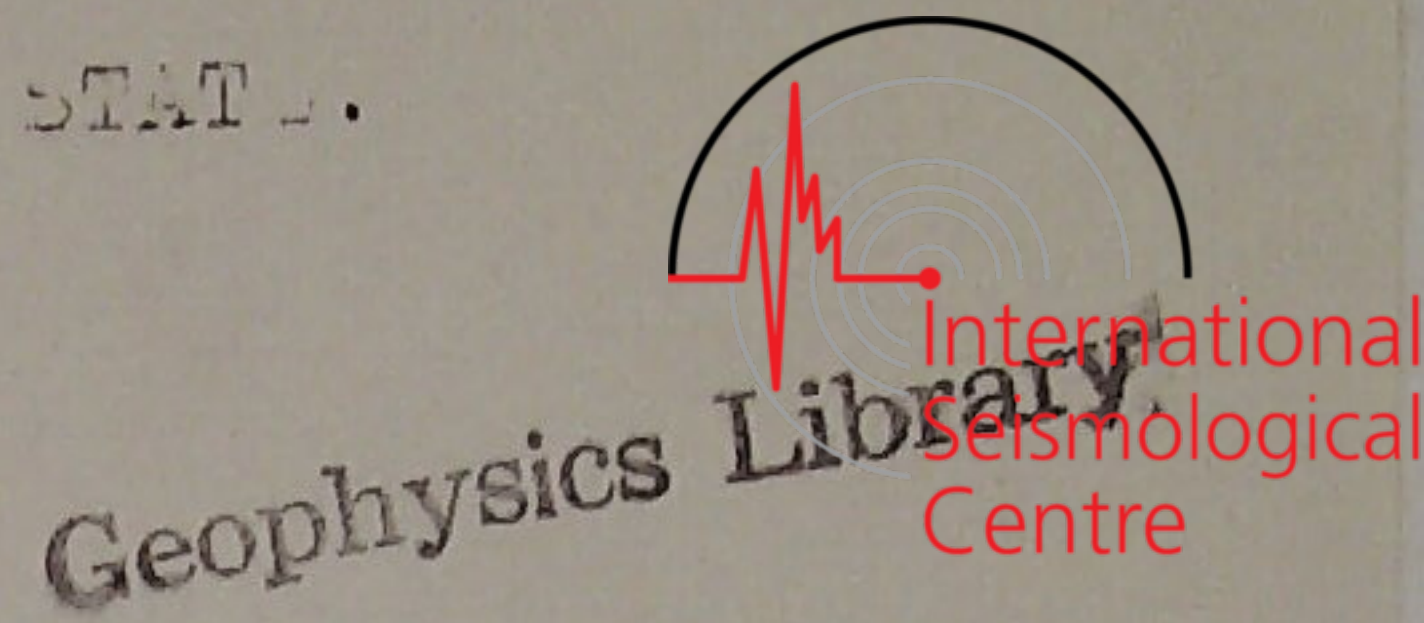
2. O'Leary seismometer. (1700kg.s.M.S., M.S.)

Date.	Phase.	G. M. T.	Per.	Dist.	Remarks
Oct.		h. m. s.	sec	km.	
2	iP	05 45 09			
	ipP				
	1PP	47 25			
	ePPP	47 14		9010	
	es	55 13			
	is				
	iss				
	L	06 14 10			
	M	19 30	20		
8	e	09 12 11			Destructive in
	e	24 53			
	e	40 02			Santiago del Chile
	L	45 10			
	i.	52 40			
9	eP	22 12 13			
	is	15 21			
	iss	15 53			
	L	16 51			
	M	19 06	13		
	M	20 27	9		

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE

RATHFARNHAM CASTLE, DUBLIN, IRELAND STATE.

OCTOBER-NOVEMBER 1935.



Date.	Phase	G.	L.	T.	Per.	Dist.	Remarks.
Oct.		h.	m.	s.	sec.	km.	
11	L L	23	12 28				Traces crossed concealing early phases.
12	LS e SSS e L L	17	06 12 16 18 22	27 36 27 11 27 27	18		
18	eP i e ePPP eSLS eb e SS ebbb L M	00 01	24 26 30 32 34 39 39 44 55 06	06 12 01 24 40 17 29 59 55 02 10	20	9000	
18	iPP e(c) iPb iPPb SS SSS L L L	11 12	24 31 35 34 39 44 00 06 13	22 14 42 52 27 57 10 57 12	25 19		
18	eP eb L L	15	11 16 38 44	35 42 02 42	20	3355	

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE,

RATHFARNHAM, DUBLIN, IRISH FREE STATE.



OCTOBER-NOVEMBER 1935.

Geophysics Library

Date.	Phase	G.	M.	T.	Per.	Dist.	Remarks.
Nov.							
1	iP	06	11	58			
	iS		18	44			
	e		21	56		5020	
	iSS		22	03			
	i			11			
	iSSS		23	16			
	L		26	45			
	M		29	00	16.		
7	e	04	44	38			
	e		46	56			Microseisms and
	L		47	16			large wind-movements
	M		48	32	16		continuous through-
	M		53	44	12		out this month.
10	e	18	34	12			
	e		35	47			
	e		41	06			
	L		45	55			
	M		48	37			
	M		55	27			
14	L	20	23				
	M		26				
23	L	08	31	36			
	M		23	00			
			34				

12th. December, 1935

James J. McAsey, S.J.,
Director.

RATHFARNHAM CASTLE.

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.



DECEMBER 1955.

Geophysics Library

Lat. 53 17' 55" N. Long. 6 16' 57" W. Altitude 52m.

Foundation: Boulder clay resting on limestone.

Instruments:

1. Milne-Shaw Seismometer. (E.W.)

 Period. Damping Ratio. Magnification.
 12s. 20:1. 260.

2. O'Leary Seismometer. (1700 kgs. NS., EW.)

Date.	Phase.	G. M. T.			Per.	Dist.	Remarks.
December		h.	m.	s.	sec.	km.	
5							Seismic activity about 18.50. Masked by microseisms.
14	eP	01	42	27			
	e		46	41			
	iS		51	59	13		
	iSB(?)		52	55			
	i		53	02			
	i		56	01		9,000	
	i		7	53			
	i		58	03			
	i	02	00	33			
	i		00	48			Surface waves undevel-
	i		01	14			
	M		12	08	15		oped.
14	iP	22	17	04			
	e			52			
	e		18	27		8755.	
	iPP		19	37			
	i		20	17			
	iPPP		22	14			

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

DECEMBER 1935.



Geophysics Library

Date. Phase. G. M. T. Per. Dist. Remarks.

14 (Cont.) e 22 22 39
 i 23 59
 i 26 46
 i 57
 iS 27 05
 i 39
 i 28 32
 i 29 25
 iSS 32 02
 i 33 07
 iSSS 36 09
 M 51 30

15 eP 07 20 12
 ePKP 22 35
 epPIP(?) 46
 e 23 43
 ePP 25 39
 e 26 20
 e 28 12
 eSRS 29 35
 i 47 15300.
 i 57
 i 31 33
 i 48
 i 32 14
 i 34 40
 i 37 48
 e 40 07
 i 09
 iSSS 48 19
 L 08 03

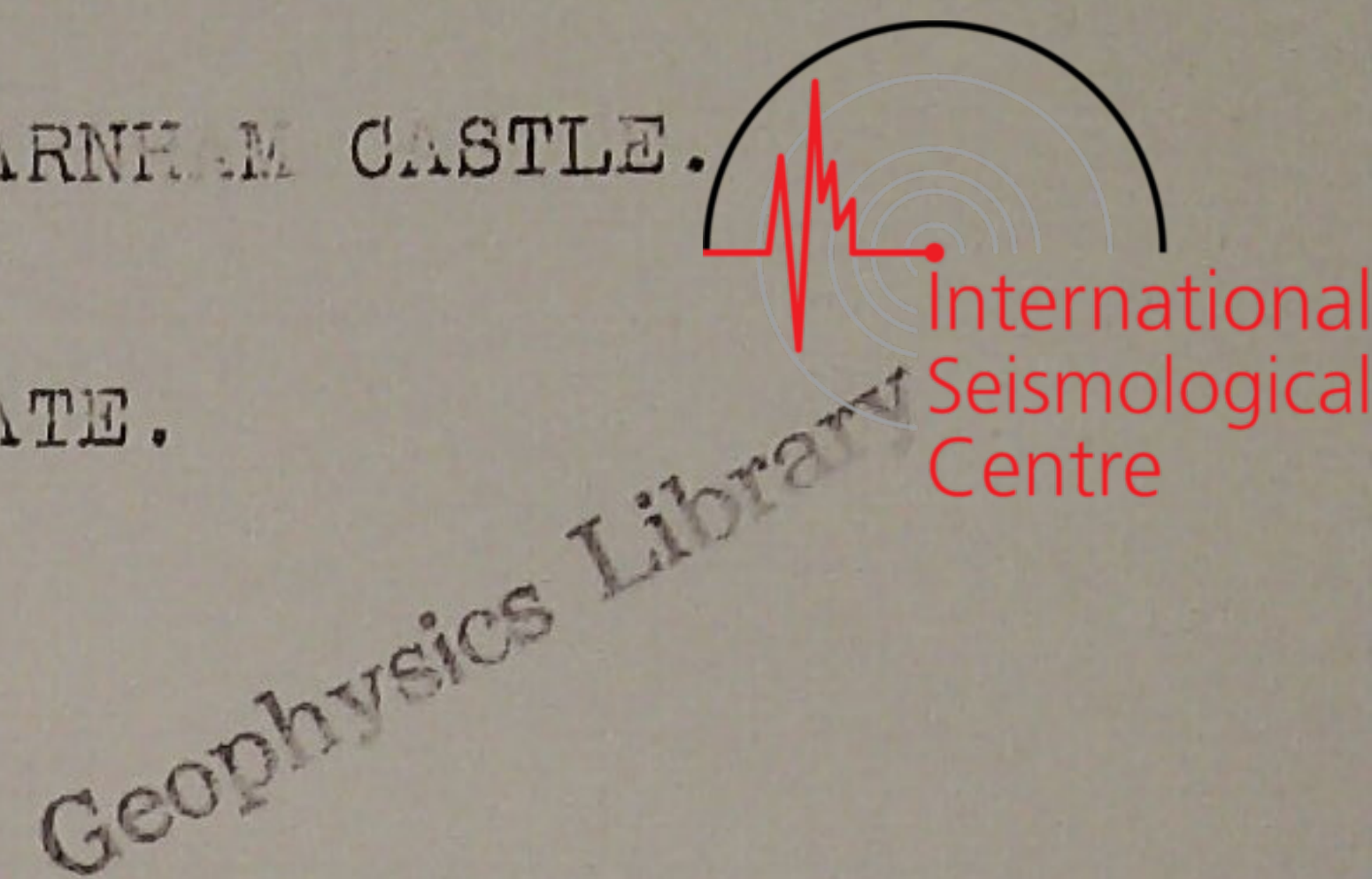
17 Earthquake recorded from about 19.30. Minute marks failed.

18 e 07 39 20
 e 44 28
 L 50
 M 53 55

BULLETIN OF SEISMOLOGICAL OBSERVATORY RATHFARNHAM CASTLE.

RATHFARNHAM, DUBLIN, IRISH FREE STATE.

DECEMBER 1935.



Date.	Phase	G.	L.	T.	Per.	Dist.	Remarks.
December.		h.	m.	s.	sec.	km.	
28	iP	03	49	19			
	epP			49			
	i		53	21			
	i		55	27			
	i		57	01			
	i			12			
	i			14			
	i		59	31		10500.	
	i			55			
	i	04	00	12			
	iS			36	38		
	i			38			
	i			47			
	i			55			
	i		02	11			
	i			17			
	i			26			
	eSS		07	28			
	iSS			35			
	iSSS		12	41			
	M		37	00			

James J. McAsey, S.J.,
Director.

16th. January 1936.