

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR JAN. - FEB. 19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER s.	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
Jan. 5	e L M L M	22	01 18 24 27 34	30 0			Microseisms.	
7	iP i iPR1 PR2 iS i SR1 ? SR2 L M M M	13	31 32 34 36 41 41 45 46 48 52 14 1 4 7	54 06 34 02 08 35 46 24 30 38 52 30 50	19 19 20	181 520 228	7800	
8	e L M	15 16	53 08 23	20 00			Very faint.	
19	e L L	21 22	53 01 17	05 00				
23	L L	11	52 57	00			Confused by wind movements.	
25	e i i e i i L M L M	06 07	56 07 09 13 16 18 36 49 46 56	31 15 16 49 01 57 42	24 20	62 36		

Rathfarnham Castle Observatory, Dublin, Ireland.



International
Seismological
Centre

SEISMOLOGICAL BULLETIN

JAN. - FEB. 19

1937

DATE	PHASE	G. M. T.			PER	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
Feb. 10	iP ?	08	20	06				
	i		20	49				
			23	07				
	iS ?		24	40			2865	
	L		26	40				
	M		29	0	14	14		
	M		30		14			
21	iP	07	14	52				
	i		15	16				
	i		18	02				
	i		19	52				
	i		21	06				
	iS		25	01			8960	
	iSR1		30	36				
	SR2		34	04				
	L		41	30				
	M		49	30	20	125		
	M	8	03		15	130		
	M		09	20	120			
22	L	14	05					
	L		15					
	F		52					
23	iP	01	0	28				
	iSKS		10	26				
	S ?		10	45			9135	
	SR1		16	43				
	L		33	0				
	M		38	30	19	14		
	M		41	0	20	15		

R. E. INGRAM S.J.,

DIRECTOR

14 March 1937.

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR MAR. - APRIL. 19

37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
Mar 9	iP	15	51	49				
	i		52	0				
	iS?	16	01	32			8345	
	PS		02	07				
	IPR2		9	12				
	L		16					
	M		20		20	12		
23	e	01	15	00				
	L		43					
	M		48		20			
24	L	14	39					
	M		44					
	F		53					
April 4	L	16	00	00				
	M		04					
	F		17					
5	iP	07	16	46				
	i		20	30				
	i		26	17				
	i		27	39				
	i		32	45				
	L		50					
	M		58					
16	eP'	03	20	52				
	i		21	16				
	i		24	24				
	e		30	29				
	e		31	13				
	L		42	49				
	M	04	03		33	56		
29	iP	18	16	21				
	PR1			43				
	PR2			51				
	S		20	13				
	M		24	00				
	M		25	00				
	L	19	00	20				

R.E.Ingram, S.J.,

8th. May 1937.

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR MAY 19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
May 2	eL F	23 00	59 30	0			Very faint.	
4	eL L M L F	05 6	36 41 42 51 50	0 0 30 30	29 13	9		
7	e L	14	49 50	12				
	e L L F	22 23	44 47 51 02	0				
9	e i L L M	15	09 09 28 31 40	00 13 10	21	11		
12	L M F	03 4	59 4 25	0				
16	e L M	11 13 13	59 0 13	41 0	14			

Rathfarnham Castle Observatory, Dublin, Ireland.

SEISMOLOGICAL BULLETIN

MAY (contd.)



1937

International
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DATE	PHASE	G. M. T.			PER s.	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
23	i	08	32	2				
	i		36					
	L		49					
	eP(?)	11	2	20				
	iS		06	35		2600		
	L		09	40				
	F		38					
	28	e	15	57	01			
		e		58	33			
		e		59	34			
F		16	30					
i		20	18	30				
iS(?)			19	0				
i			20	55				
L			28					
8 June 1937								
R.E.Ingram S.J.,								
Director.								

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR JUNE 1937

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER s.	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
JUNE 1.	e	15	47	56				
	e		53	10				
	eL	16	0	0				
	F		16					
2	i	01	30	24				
	L		31					
	F	02	12					
8	iP	22	41	29				
	i		42	15				
	iS		51	19				
	L	23	4					
	F		50					
L3	e	23	36	22				
	L	0	2					
14	e	13	32	02				
	L	14	19					
	F	15	52					
21	iP	15	25	28				
	i		25	39				
	iS		35	42				
	i		36	25				
	i		44					
	L		50					
	M		56					
	M		59					
F	20	40						
24							No Records.	

June 19th.-30th No records on
Milne Shaw Seismograph.

R. E. Ingram S.J.,
Director.

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR JULY 19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

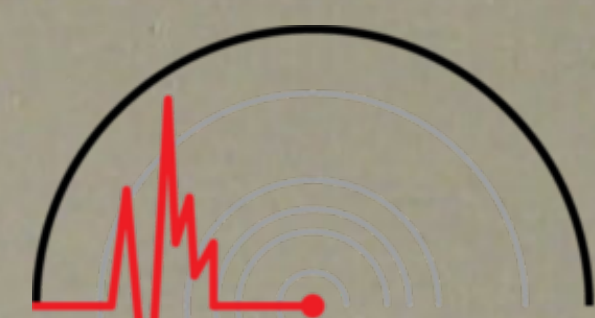
DATE	PHASE	G. M. T.			PER s.	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
July 4	eL	06	40					
	L		42					
	F	10	40					
10	e	21	39	43				
	e		44	22				
	eL		50	52				
	M		54	52				
11	e	13	52	32				
	e		57	33				
	L	14	30					
	F	15	16					
	e	17	37	03				
	F	18	26					
12	e	12	23	08				
	e		28	05				
	L		28	44				
	F		41					
14	e	22	52	13				
	L	23	12	30				
	M		16					
16	e	10	30	06				
	E		51					
	L	11	05					
	F	11	40					
19	iP	19	47	18				
	ipP		48	16				
	iS		57	10		9020		
	i		58	18				
	isS		58	35				
	iSR ₁	20	02	24				
	i		03	46				
	L		10					

Depth 150-200 kms.
by Brunner Chart.

Rathfarnham Castle Observatory, Dublin, Ireland.

SEISMOLOGICAL BULLETIN

JULY (contd.)



1937 International
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DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
July 20	i L F	07	08	31				
<i>July 22nd</i>	iP	17	19	28				
	e		20	51				
	iPR ₁		21	42				
	PR ₂		22	47				
	iS		27	33			6420	
	iSR ₁		31	21				
	L		37	22				
	M		43	32	25			
	M		45	22	18	120		
26	iP	03	58	48				
	i		58	57				
	ipP		59	20				
	iPR ₁	04	01	54				
	PR ₂		04	23			8420	
	iS		08	11			Depth by Brunner Chart 150 km.	
	iSS		08	59				
	P _b		09	32				
	i		12	01				
	L		25					
	M		32					
		iP	20	09	03			
ipP?				24				
iPR ₁			12	19				
iS			19	15			9120	
iSS			19	50			Depth 100 kms.	
iSR ₁			23	58				
L			36					
M			43		23	58		
30	eL	14	32	30				
	L		48					
	F	16	16					
31	iP	20	47	49				
	PR ₁		50	46				
	PR ₂		52	29				
	iS(E)		57	44			8620	
	iS(N)		57	48				
	iPS		58	12				
	L	21	16	20				
	M		21	30	18			

R. E. Ingram S.J.,
Director.

11th. Aug. 1937.

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR AUGUST 19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
Aug. 1	iP	10	53	05	18	41	8620	Repetition of the Chinese Quake of July 31st.
	iPP		56	07				
	iS	11	03	1				
	L		19	30				
	M		26	50				
2	iP	15	57	39	22		(8300)	Doubtful
	eS?		07	20				
	L		23					
	M		28	31				
5	i	15	05	7				
	e		5	43				
	i		09	12				
	i		10	23				
	L		18					
11	F	16	35		21	9	8365	Deep focus.
	iP	01	09	40				
	i		12	02				
	e		14	42				
	e		16	30				
	i		17	42				
	iS		19	23				
	i		23	13				
	L		34					
	M	2	02					
15	eL	15	17					
	L		24					
	F		30					
17	iP	13	22	24				
	e		43	10				
	L		51					
	F	14	37					

Rathfarnham Castle Observatory, Dublin, Ireland.



SEISMOLOGICAL BULLETIN

.....AUGUST.....

1937 International Seismological Centre

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
AUG 20	i iPR1? i iS i	06	54	20 50 43 31 21				Interrupted by changing of Chart. No surface waves recorded.
20	eP i iPR1 iS i i L M F	12	13	0 49 51 38 03 09 46 54	21	425	10900	
22	(eP) i iS L	11	40	54 14 24 54			(5810)	
24	iP i i e L F eL F	18	47	47 5 51 55 30 20 21 46				
26	eL M F	19	40	52 20	21			
31	eP i iS L M	14	24	(08) 52 48 50 58	20	35	(8420)	

R.E.Ingram, S.J.,
Director

15 Sep. 1937

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR SEP. 19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

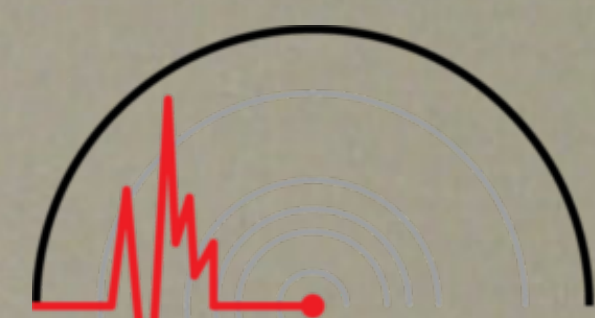
2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
SEP 1	c i iPP c c L M M	9	2	9				
			2	50				
			3	43				
			11	10				
			22	50				
			54					
		10	11	15	25	20		
			40					
3	iP ipP i iPP iS i iS i M	18	59	38				
			59	59				
		19	0	16				
			2	30				
			9	04				
			9	26				
			9	53			8220	Focal depth(h) 100kms.
			14	23				
			25		36	100		
4	cP cP' c L	6	34	28				
			37	(42)				
			38	30				
		7	26					
15	iP' i cPP iS iPPS iSSS L	12	46	48				
			48	23				
			48	55				
			57	20			14865	
		13	1	35				
			12	34				
			22					
20	c c L M	7	33	15				
			39	53				
			44					
			52		21			
25	iP iS	4	33	51				
			37	20			2045	

Rathfarnham Castle Observatory, Dublin, Ireland.

SEISMOLOGICAL BULLETIN



International
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Centre

SEP.

1937

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
SEP. 25 (Contd.)	iL M L M	4	38	26				
27	cP iPP iSLS Is iPS iSSS L L	9	9	50				
			14	28				
			20	53				
			22	26				
			23	58				
			35	10				
			48					
			56	20	30			

R.E. Ingram S.J.

Director,

15 SEP. 1937

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR

19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER s.	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
OCT. 1	e	20	38	44				
	e		45	25				
	L	21	30					
5	eL F	7	03 20					
6	i	10	8	32				
	e		9	8				
	i		19	29				
	l		26					
	iP	17	23	34				
	i		26	05				
	i		26	56				
	L		56					
	F	19	50					
	iP	21	58	04				
iS	22	05	20					
L	22	11			5555?			
M		15	30					
F		50						
12	eP	21	04	32				
iS			14	33		8755		
L			27					
17	i	5	10	43			Strong microseisms prevailing.	
L			29					
24	i	11	59	26				
		12	07	36				
	L		12	14				

R. E. INGRAM S.J.,
DIRECTOR

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR

NOV.

19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

2. Milne Shaw Seismometer. (E.W.)

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

DATE	PHASE	G. M. T.			PER s.	AMP.	DIST. Km.	REMARKS.
		h.	m.	s.				
Nov. 13	eL b	10 11	35 40					
14	iP i iBq iPR2 iS i L	11	7 9 9 11 14 19 25	21 27 45 22 44 52		5665		
15	iP iS i L M	21 22	46 55 2 8 17	(30) 44 23				
21	eP iS L M	20	34 38 40 41	27 22	11	6	2555	
28	e i L F	5 6 7	31 39 30 20	2 50				
30	e e L L iP iS? L M	1 13	05 17 26 34 7 16 23 35	0 20	22	12	6220	
					19	56	Strong wind movements mask early phases.	

R. E. INGRAM S.J.,

RATHFARNHAM CASTLE OBSERVATORY,

RATHFARNHAM, DUBLIN, IRELAND.



SEISMOLOGICAL BULLETIN FOR ~~DECEMBER~~ 19 37

Lat. 53° 17' 55"N. Long. 6° 16' 57"W. Height above M.S.L. 52m.

Foundation : Boulder Clay resting on limestone.

INSTRUMENTS 1. O'Leary Seismometer. (1700 Kgs., N.S., E.W.)

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

DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
DEC 8	eP	8	45	01				
	i		47	45				
	iS		56	05			10200	
	i		57	40				
	L	9	15	30				
	M ₁		23		21	63		
	M ₂		25		16	64		
	M ₃		31		16	116		
	eL	21	24	-				
	M		32					
M		38						
10	L	18	12	0				
	M		13	30				Strong microseisms mask
	F		16					early phases.
13	iP	19	6	59				
	iPP		10	39				
	iPPP		12	37			10,100	
	iSKS		17	18				
	iS		17	54				
	L		37					
	M ₁		45		21	39		
	M ₂		47	30	17	51		
	M ₃		57	40	17	51		
	L	23	17					
F		50						
16	iP	17	40	33				
	iPPP?		42	22				
	iS		44	50				
	i		46	9			2,635	
	L		46	30				Epicentre in Greece.
	M		48	30				

Rathfarnham Castle Observatory, Dublin, Ireland.

SEISMOLOGICAL BULLETIN

DEC. (Contd.)



1937
International
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DATE	PHASE	G. M. T.			PER	AMP.	DIST.	REMARKS.
		h.	m.	s.				
Dec. 17	eP	9	45	02			10,100	Repetition of Dec 13th. 19h.
	i		55	57				
	iS		56	18				
	L	10	16					
	M1		23		22			
	M2		25	30	16			
	M3		32		16			
18	eP	13	26	10				
	i		38	04				
	L		44	59				
	M		51					
22	eL	4	17					
	M		24					
	F	5	10					
23	iP	13	30	4			8,745	Felt in Mexico.
	i		31	34				
	iPP		32	59				
	iPPP		34	48				
	iS		40	4				
	iPS		40	43				
	ISS?		44	50				
	iSSS		47	15				
	L		55					
	M1	14	0	40	21	156		
	m2		3	20	20	240		
	M3		7	10	19	120		
	F	17						
24	eP	6	33	(40)			(9,200)	
	iSKS		43	50				
	iS		44	1				
	iSS		49	22				
	L	7	3					
	M		8					
28	iP	6	29	1			6,110	
	iS		36	48				
	i		38	50				
	iSS		40	51				
	L		44					
	M		47		10			
30	L	10	30					Wind movements mask early phases.
	F	12						
31	eP	17	53	32			9,100	10 Jan. 1938
	iS	18	3	47				
	i		4	42				
	L		20					

R. E. INGRAM S.J.,
Director.