International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND

SEISMOLOGICAL BULLETIN FOR JANUARY, 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec.$^{-1}$
N.	3 Oct., 1933	24.7	24.9	-.04	47.1
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
Jan.			h. m. s.	sec.	μ	km.	
1	N	e	4 59				Felt in Biarritz. Recorded only by experimental Wood-Anderson. instrument.
		F	5 2				
2	NE	e	21 11				
	N	eL	19				
	ZE	eL	23				
	N	M	30 29	15	+9		
		F	22 5				
3	N	iP	9 53 36			7730	No "Z" record of earlier phases. Sea off Okhotsk. 53°N., 155°E (U.S.C.G.S.) Surface waves poorly developed.
	E	iS	10 2 42				
	E	i	3 17				
	NE	eL	12				
	Z	eL	20				
		F	11 5				
12	ZNE	eL	14 11				Confused by microseisms.
	N	M	16 50	18	-15		
		F	40				
15	ZN	eP	8 54 20			7530	Disturbed by microseisms. Bombay = 1630 Km. Epicentre determined from Kew and Bombay, 26.8°N., 86.3°E. Near Churia Ghati Hills. Very destructive in North Eastern India.
	Z	iP	54 25				
	ZN	iPP	57 12				
	E	iPP	57 15				
	N	i	58 38				
	E	i	58 50				
	Z	i	58 55				
	N	i	9 1 50				
	NE	iS	3 16				
	Z	iS	3 18				
	N	i	4 35				
	E	i	4 41				
	N	i	6 37				
	E	i	7 18				
	ZNE	eL	9				

FORM 3717.

H 293.45.100.234.GP 928.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

JANUARY (Contd) 1934.

DATE.	COMPT.	PHASE.	G.M.T. H.	M.	S.	PERIOD. SEC.	AMPLITUDE. μ	Δ KM.	REMARKS.
15 contd.	ZNE	M		20-33		(20±)	300		Maxima doubtful; traces very faint and passing off lower edge of chart.
		F	13	15					
16		e	19	33					
		F	20	00					
19	NE	e	18	24					
	NE	eL		29					
	Z	eL		34					
	N	M		40	3	15	-20		
		F	19	5					
19/20	NE	e	23	25					
	NE	eL		38					
	Z	eL		43					
		F	0	5					
20	NE	eL	7	40					
	Z	eL		48					
		F	8	5					
28		e	14	55					
		F	15	25					
28	Z	iP	19	22	29			9170	Compression.
	NE	iP		22	31				
	Z	iPP		25	39				Destructive in southern and central Mexico.
	NE	eS		32	48				17°N., 100°W. (U.S.C.G.S.)
	E	eSS		38	10				
	E	eSSS		41	58				
	ZNE	eL		49					
	E	M		52	7	30	-30		
	N	M		52	33	27	-27		
	N	M		56	3	25	-40		
	Z	M		56	20	25	-54		
	E	M		56	30	24	+47		
	Z	M	20	1	6	17	+45		
	E	M		1	21	18	-48		
	N	M		2	22	19	+32		
		F	22	0					
30		e	20	28				(8000)	Very small.
	NE	eS		38	5				Felt in Nevada
	NE	eSS		42	(33)				39°N., 119°W. (U.S.C.G.S.)
	NE	eSSS		45	12				
	ZNE	eL		48					
	N	M		55	29	29	-14		
	E	M		56	1	26	+18		
	N	M		58	40	22	-25		
	Z	M		59	29	17	+18		
		F	22	40					
31	ZN	e	11	3					
	ZNE	eL		16					
	Z	M		23	44	23	-8		
	N	M		26	12	20	-8		
	E	M		27	50	20	+4		
		F	12	15					

F.J. Scrase,
for Superintendent.
6th. Feb., 1934.

FORM 3718.
H293.45.100.2'34-GP923.

SEISMOLOGICAL BULLETIN FOR FEBRUARY

International Seismological Centre From the ISC collection scanned by SISMOS

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N	3 Oct., 1933	24.7	24.9	-.04	47.1
E	3 Oct., 1933	24.8	24.8	-.04	43.3
Z	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Feb.									
2		e	15	51	12				
	NE	eL	16	0					
	N	M		5	9	33	+16		
	E	M		5	13	34	-18		
		eL		8					
		F		40					
2		e	17	10					
		F		30					
2		e	20	0					
		F		35					
3		e	14	54	16				
	NE	i		55	41				
	NE	e	15	12	13				
	E	eL		32					
	N	eL		37					
	N	M		43	5	26	+22		
	E	M		46	20	21	-12		
	N	M		46	58	23	+29		
		M		47	29	24	-29		
		M		50	14	21	-24		
	E	M		50	15	22	+16		
	N	M		50	29	22	+33		
		F	17	15					
4	N	iP	9	39	21			2230	P and S phases from experimental Wood-Anderson instrument. Felt in Central Albania. Large movements.
	N	iS		43	4				
		L		44	44				
	NE	i		45	27				
	E	M		48	35	17	+19		
		F	10	15					

FORM M.

H.309.45.100.3.34 [illegible].

M.O. 373

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SUI

SEISMOLOGICAL BULLETIN.

February (contd) 1934.

DATE.	COMPT.	PHASE.	G.M.T. H.	M.	S.	PERIOD. SEC.	AMPLITUDE. μ	Δ KM.	REMARKS.
Feb.									
4	Z E	iP	13	35	17			4690	
	NE	iS		41	42				
	NE	e		44	53				
	NE	eL		47					
	Z	eL		50					
	N	M		52	41	25	-33		
	N	M		54	13	20	-36		
	E	M		54	24	17	+31		
		F	15	0					
4		e	23	5					
		F		35					
9	NE	eL	10	32					
	Z	eL		37					
	N	M		42	36	24	+12		
		F	11	5					
12		e	12	11					
	NE	L		14					
	E	M		15	32	28	+10		
	N	M		16	12	25	+16		
	Z	L		17					
		F	13	0					
13	ZNE	e	9	56	24				
	ZNE	eL	10	1					
	E	M		2	43		-8		
		F		20					
14	ZNE	iP	4	12	54			10110	Compression. China Sea, 18°N., 118°E. (U.S.C.G.S.)
	ZNE	iPcP		13	7				
	ZNE	iPP		16	38				
	NE	eSKS		23	28				
	ZNE	iSKKS		23	44				
	Z	iS		23	57				
	NE	iPS		25	7				
	NE	iPPS		25	57				
	E	eSS		29	18				
	NE	eL		38					
	Z	eL		46					
	N	M		49	35	25	+150		
	E	M		49	49	25	+170		
	N	M		51	15	23	-270		
	N	M		58	7	20	+210		
	Z	M		58	57	16	>+270*		*Maxima passing off lower edge of record.
	E	M		59	8	16	>+190*		
	Z	M		59	39	14	>+220*		
		F	7	(30)					
14		e	18	3					
		F		30					
14		e	23	5					
		F		20					
16		e	7	28					
		F	8	5					

FORM 3718.

309.45 100 3.34 Gp. 923.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

February (contd) 1934.

DATE.	COMPT.	PHASE.	G.M.T. H.	M.	S.	PERIOD. SEC.	AMPLITUDE. μ	Δ KM.	REMARKS.
Feb.									
19		e	11	25					
		F		55					
20		e	4	8					
		F		35					
21	NE	e	0	49	50				
	ZNE	L		54					
	N	M		55	31	16	-5		
		F	1	30					
21	ZNE	eP	11	42	26			2770	
	ZNE	eS		46	52				
	ZNE	L		51					
	N	M		52	29	14	+8		
		F	12	10					
22	ZNE	e	8	14					
	ZNE	eL		20					
	Z	M		31	38	14	-6		
		F	9	5					
24		e	1	2					
		F		30					
24	ZNE	iP	6	37	26			10650	Compression. Marianne Islands. 21°N., 145°E. (U.S.C.G.S.)
	ZNE	iPP		41	29				
	NE	eSKS		47	50				
	E	eS		48	53				
	N	iS		48	57				
	NE	iSS		55	48				
	E	eSSS		59	24				
	NE	i	7	2	44				
	NE	L		9					
	E	M		13	52	31	+100		
	N	M		14	8	33	+73		
	Z	L		15					
	N	M		18	39	21	+64		
	E	M		18	39	21	+83		
	N	M		27	51	20	+94		
	Z	M		28	26	18	+100		
	E	M		28	29	19	+98		
	N	M		32	27	17	+57		
	Z	M		34	3	15	+36		
		F	10	30					
25		e	17	14					
		F		35					
28	ZN	e	14	41	24				
	Z	e		43	29				
	NE	e		53	11				
	NE	e		59	8				
	NE	e	15	1	18				
	NE	eL		5					
	Z	eL		13					
	N	M		24	22	37	+39		
	E	M		27	7	34	-50		
	N	M		30	35	29	-68		
	E	M		33	43	24	+62		

FORM 3718.

H.809.45.100.3.34.Gp.923.

M.O. 373

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SU

SEISMOLOGICAL BULLETIN.

February (contd.) 1934.

DATE.	COMPT.	PHASE.	G.M.T. H.	M.	S.	PERIOD. SEC.	AMPLITUDE. μ	Δ KM.	REMARKS.
Feb. 28 contd.	N	M		34	2	22	-42		
	Z	M		34	28	24	+36		
	Z	M		36	0	24	-42		
		F	17	40					

F.J.W. Whipple,
Superintendent.

6th. March, 1934.

FORM 3718.

M 103 65 100 3 34 Co 928

SEISMOLOGICAL BULLETIN FOR.....M...

International Seismological Centre From the ISC collection scanned by SISMOS

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N.	3 Oct., 1933	24.7	24.9	-.04	47.1
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
March									
1		e	4	53					Very small; possibly not seismic.
		F	5	15					
1	E	e	20	36					
	NE	eL		45					
	Z	eL		52					
	E	M		54	24	22	-5		
		F	21	55					
1	ZNE	e	22	4	23				Chile.
	NE	e		11	12				39°S., 73°W (U.S.C.G.S.)
	E	i		11	20				Probably deep focus.
	Z	i		13	46				
	NE	e		19	00				
	NE	eL		24					Surface waves poorly developed
	Z	eL		30					
		F	23	45					
4	NE	e	7	2					
	NE	eL		10					
	Z	eL		15					
		F	8	10					
4	NE	eL	11	49					
	Z	eL		53					
	E	M	12	1	25	21	-7		
		F		40					
5	Z	iP'	12	6	20			(19000)	Compression.
	Z	i		6	34				
	Z	eP_2'		7	38				P_2' by path of greater deviation.
	ZNE	iPP		11	18				
	ZNE	iPPP		15	41				
	NE	iSKKS		19	36				By path greater than 180°.
	N	eSKSP		21	52				

FORM 371/.

H.332.8036.100 434 Gp 923.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SUF

SEISMOLOGICAL BULLETIN.

March (contd.) 1934

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
March 5 contd.	N	ePS		25	4				Felt in North Island of New Zealand.
	Z	iSP		25	13				
	NE	iSS		32	12				
	NE	ePSS		33	36				
	N	e		37	22				
	N	iSSS		44	2				
	NE	L		57					
	Z	L	13	8					
	N	M		19	49	24	+99		
	N	M		27	37	21	+90		
	E	M		28	38	20	+125		
	Z	M		33	44	19	-105		
	N	M		36	53	19	+100		
	E	M		37	19	18	+96		
	Z	M		37	33	18	+105		
		F	15	20					
7/8	NE	e	23	3					Central America. 14°N., 88°W (U.S.C.G.S.)
	NE	eL		12					
	Z	eL		21					
	E	M		22	39	23	+8		
	Z	M		25	11	18	-7		
		F	0	5					
8		e	3	7					
		F		20					
9		e	14	45					Very small; possibly not seismic.
		F	15	15					
12	NE	e	15	15					Confused by microseisms.
	NE	eL		33					
	Z	eL		40					Near Great Salt Lake, Utah.
	N	M		43	39	18	+26		41.7°N., 112.6°W.
	E	M		46	19	15	-20		(U.S.C.G.S.)
		F	16	40					
12		e	18	49					
		F	19	20					
13	NE	e	13	52	21				
	NE	eL	14	17					
	Z	eL		22					
	N	M		27	3	24	+12		
		F	15	55					
15		e	12	17					Disturbed by wind and microseisms.
		F		40					
20	NE	e	3	16	52				Confused by microseisms.
	NE	eL		41					
	Z	eL		47					
	N	M		55	39	20	+11		
		F	4	25					
21		e	1	40					
		F		55					

FORM 3718.

H.332.8036.100.434.Gp.923

International Seismological Centre From the ISC collection scanned by SISMOS

Ms .....

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLI-TUDE. μ	Δ km.	REMARKS.
March									
24	Z	e	12	23	49				
	ZNE	i		26	57				
	ZNE	i		27	26				
	N	e		36	30				
	NE	e		37	10				
	Z	e		41	5				
	NE	i		42	34				
	E	i		44	36				
	NE	eL		57					
	Z	eL	13	9					
	E	M		13	35	29	+49		
	N	M		13	56	29	-73		
	N	M		18	31	25	+57		
	N	M		32	48	19	+40		
	Z	M		32	55	20	-50		
	E	M		40	4	20	-41		
		F	15	40					
29	ZE	eP	20	10	(59)			2030	In minute break; uncertain to ±1 sec.
	ZE	iP		11	2				
	ZE	iPP		11	35				Destructive in the
	ZN	eS		14	25				
	E	iS		14	27				Balkans.
	ZE	i		14	45				
	ZNE	i		15	10				
	NE	L		15	20				
		F		30					

F.J.W. Whipple,

Superintendent.

6th. April, 1934.

FORM 3718.

H.332.80 96.100.434.Gp.923

AIR MINISTRY, METEOROLOGICAL OFFICE
International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL 19/34

Lat. 51° 28' 6" N, Long. 0° 18' 47" W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER ".MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{ml}$
N.	3 Oct., 1933	24.7 sec.	24.9 sec.	-.04	47.1 sec^{-1}
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
3		e	8 15				
		F	40				
3		e	18 26				
		F	50				
3		e	23 12				
		F	50				
4/5			- - -				No records: 4d. 17h. to 5d. 7h.
6	Z	i	19 22 2				
	N	e	32 20				
	ZE	e	32 29				
	Z	e	33 27				
	NE	eL	49				
	Z	eL	53				
	E	M	55 43	30	+ 6		
		F	20 25				
9	Z	e	15 59 38				
	E	e	16 11 21				
	ZNE	eL	27				
	E	M	30 43	27	- 8		
	Z	M	31 1	26	+10		
	N	M	34 6	22	- 5		
		F	17 10				
9		e	17 28				Very small, possibly not seismic.
		F	35				
10		e	6 16				
		F	35				

FORM 3717.

H.342.8036.100.534 Gp923

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 373

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

APRIL (contd.) 1934

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
10	ZNE	e	10 51 43				
	ZNE	eL	11 17				
	N	M	33 18	20	+ 8		
		F	12 00				
10	Z	e	21 31 21				} Emergent on horizontal components.
	Z	i	31 28				
	Z	i	32 8				
	E	e	52 44				
	E	i	54 58				No surface waves.
		F	22 10				
11	NE	eL	4 10				
	Z	eL	18				
		F	30				
15/16	Z	eP	22 29 47			11800	Philippine Islands. 8°N., 127°E. (Strasbourg).
	ZNE	ePP	34 15				
	NE	iSKS	40 27				
	ZNE	ePS	43 17				
	NE	eSS	49 10				
	N	L	59				
	E	L	23 2				
	Z	L	7				
	N	M	6 48	43	+120		
	E	M	7 11	39	+ 80		
	N	M	10 30	29	+ 99		
	E	M	19 22	24	- 97		
	E	M	21 57	21	- 95		
	N	M	21 58	18	- 85		
	Z	M	22 13	19	- 95		
	Z	M	24 50	18	+ 77		
		F	1 15				
16	NE	eL	4 51				
	Z	eL	5 00				
		F	30				
16			- - -				10h. 39m. to 13h. 11m. no records.
16	NE	eL	14 26				
	Z	eL	35				
		F	45				
17	ZE	eP	2 41 11				
	ZNE	eL	45				
	E	M	46 3	25	+ 2		
		F	55				
18		e	13 00				Very small, possibly not seismic.
		F	30				
20	ZNE	eL	15 20				
		F	35				
24	NE	e	18 47				
	ZNE	eL	52				
	N	M	19 2 52	20	- 5		
		F	55				

FORM 3718.

H.342.8036.100.534Gp.923

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

APRIL (contd.) 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
26	NE	e	14	38					No "Z" record.
	NE	eL		43					
		F		55					
26	NE	e	21	41	18				No "Z" record.
	NE	eL	22	10					
	N	M		21	21	21	+ 4		Possibly more than one shock.
		F	23	25					
27	Z	e	21	7					
	NE	e		13	00				
	N	e		26	40				
	NE	eL		59					
	Z	eL	22	5					
	N	M		16	38	23	+5		
		F		45					
28		e	16	17					
		F		40					
28		e	19	9					
		F		30					

F.J.W. Whipple,
Superintendent.

4th. May, 1934.

FORM 3718.

H342.8036.100.534.Gp 923.

International Seismological Centre From the ISC collection scanned by SISMOS

M.O. 373

EDINBURGH.
14 JUN 1934
File

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{ml}$
		sec.	sec.		sec^{-1}
N.	3 Oct., 1933	24.7	24.9	-.04	47.1
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
May 1		e	4	14					
		F		20					
1	Z	i	7	17	53				Not very distant.
	NE	e							
		F		20					
1	E	i	7	28	12				Not very distant.
	ZN	e							
	E	i		28	42				
		F		33					
3	NE	eL	2	22					
	Z	eL		28					
		F		55					
4	ZNE	iP	4	46	42			7170	Amplitudes of iP as read in mm:-
	Z	iPP		49	4				Z N E
	ZNE	iS		55	20				-7.0 +2.2 -1.1
	N	i		59	20				Azimuth = 331°.
	E	L		5					
	ZN	L		7					
	N	M		10	5	30	-97		61°N., 148°W
	Z	M		10	17	30	+97		(U.S.C.G.S.)
	E	M		10	30	28	-58		
	N	M		16	6	19	-51		
	Z	M		16	12	18	+50		
		eL	7	4					Via the Antipodes.
		F		55					
5	Z	e	16	0					Very small; possibly not seismic.
		F		10					

FORM 3717.
H 350 8036 100 6346 P923.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SUR

SEISMOLOGICAL BULLETIN.

MAY (Contd.) 19 34.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
May									
9		e	16	55					
	ZNE	eL	17	3					
		F		30					
11			-	-	-				5h. 20m. to 9h. 40m. no records.
11		e	18	1					Very small
		F		10					
11	E	e	21	8	12				Very small, not very distant.
		F		11					
13	ZNE	e	9	23	21				
	NE	i		24	34				
	NE	eL		58					
	Z	eL	10	4					
	N	M		10	58	30	-14		
		F	11	20					
14		e	13	56					
		F	14	15					
14	ZNE	e	22	23	53				
	NE	i		32	50				
	NE	eL		40					
	E	M		46	13	37	+12		
	Z	eL		49					
		F	23	40					
19	NE	e	1	39	44				
	E	eL		46					
	ZN	eL		50					
		F	2	15					
20	NE	e	19	9	49				
	ZNE	L		11					
	N	M		11	49	19	- 5		
	E	M		12	32	18	+ 5		
		F		25					
21		e	5	28					
		F		40					
21	ZN	eP	10	11	59			2290	
	NE	eS		15	47				
	ZNE	L		17					
	E	M		18	44	17	+ 4		
		F		35					
22		e	2	18					Very small; possibly not seismic.
		F		30					
22	ZN	e	11	19	31				
	NE	e		25	34				
	ZNE	L		28					
	N	M		29	00	25	+ 8		
		F	12	00					

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

MAY (Contd.) 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
May 30		e	12	23					
		F		40					
31		e	13	30					Very small.
		F		40					
31		e	15	7					
		F		20					

F.J.W. Whipple,
Superintendent.

6th. June, 1934.

International Seismological Centre From the ISC collection scanned by SISMOS

AIR MINISTRY, METEOROLOGICAL OFFICE

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
N.	3 Oct., 1933	24.7 sec.	24.9 sec.	-.04	47.1 sec^{-1}
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
June 1	Z	e	6 5 58				
	ZNE	e	6 33				
	ZNE	e	15 20				
	E	e	24 11				
	ZNE	eL	33				
	Z	M	43 6	13	+1		
		F	7 10				
2	ZNE	iP	13 46 40			2050	Amplitudes as read in mm: N E Z; iP +0.7 -0.3 -1.2; i -5.2 +2.0 +5.3. Azimuth about 337°, giving epicentre near 68°N., 19°W.
	ZNE	i	46 49				
	E	iS	50 8				
	E	L	50 46				
	N	L	51 16				
	Z	L	51 19				
	N	M	51 48	23	-51		
	E	M	52 19	16	+76		Felt in Northern Iceland.
	N	M	53 24	14	+50		
	Z	M	53 25	13	-32		
		F	16 5				
2	Z	e	16 56 12				
	ZNE	eL	17 18				Horizontal components disturbed by wind.
		F	18 15				
2	ZNE	eL	21 27				
		F	22 40				
3	Z	e	16 34 59				
		F	17 5				Very small; possibly not seismic.
4		e	22 0				
	NE	eL	6				
	Z	eL	11				
		F	35				

FORM 3717.
S297/100 8036 7/34 GP 923.

International Seismological Centre From the ISC collection scanned by SISMOS

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
June							
5/6	Z	e	23 45				
	ZNE	eL	49				
		F	00 5				
6	ZNE	eL	4 30				
		F	5 30				
6	ZNE	eL	7 9				
		F	45				
8	Z	e	3 21 35				Not very distant.
	E	e	21 59				
	N	e	22 5				
	NE	e	22 19				
	NE	e	22 47				
	NE	e	22 58				
	N	L	23 14				
	E	L	23 22				
	Z	L	23 35				
	Z	M	23 46	8	+1		
		F	27				
8	NE	eS	5 9 46				
	NE	eL	20				
	Z	eL	25				
	E	M	32 57	17	-9		
		F	6 35				
8	ZNE	eL	16 44				
		F	55				
9	Z	i	13 17 37				
	ZNE	i	19 41				
	ZNE	i	20 23				
	NE	i	20 58				
	Z	e	22 55				
	NE	e	36 27				
	ZNE	eL	50				
	N	M	14 5 9	23	+13		
	Z	M	11 59	21	-5		
		F	15 45				
13	ZNE	iP	2 3 3			8780	Compression.
	ZNE	iS	13 2				Sea of Okhotsk.(Strasbourg).
	ZNE	eL	29				48°N., 148°E.
	E	M	34 30	29	-14		
	N	M	36 (3)	28	-22		
		F	3 55				
13	ZNE	e	9 9 40				Felt in Northern Italy.
	ZNE	e	9 59				
	ZNE	i	10 43				
	E	i	11 35				
		L	13				
		F	15				
13/14	ZE	eP	22 19 30			5680	Amplitudes of iP as read
	ZNE	iP	19 32				in mm. N E Z
	Z	i	19 49				(+0.1) -0.7 +2.0
							Azimuth about east.

International Seismological Centre From the ISC collection scanned by SISMOS

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	
June 13/14 contd.	ZE	iPP	22 21 36				Afghanistan. 29.5°N., 63.5°E. (Strasbourg.)
	E	iS	26 49				
	NE	i	26 51				
	Z	iSP	26 55				
	NE	iScS	29 14				
	ZE	i	31 34				
	ZNE	eL	34				
	E	M	39 53	31	-42		
	N	M	45 26	19	-60		
	Z	M	51 57	11	-16		
		F	1 30				
14		e	22 16				Very small.
		F	25				
15	NE	eL	3 45				
	Z	eL	58				
		F	4 30				
15	NE	eL	6 45				
	Z	eL	50				
		F	7 15				
16		e	5 56				Very small.
		F	6 15				
17	NE	e	15 7 27				
	ZNE	eL	17				
		F	40				
18	ZN	iP	9 24 50			6890	Alaska. 62°N., 150°W. (U.S.C.G.S.)
	NE	iS	33 13				
	NE	iPS	33 47				
	ZNE	eL	45				
	N	M	49 8	30	-7		
		F	10 45				
19	ZE	eP	18 48 44			2890	
	E	iS	53 19				Emergent on "Z" and "N" components.
	NE	L	56				
	Z	L	57				
	N	M	57 35	17	-11		
		F	19 20				
22	ZNE	eL	19 10				Horizontal components disturbed by wind.
		F	40				
23	ZNE	e	5 39 40				
	NE	eL	50				
	E	M	56 33	26	-10		
	Z	eL	57				
	N	M	58 26	13	+13		
		F	6 55				
24	Z	eL	2 26				Horizontal components disturbed by wind.
		F	3 5				
24	Z	e	4 46				
		F	5 40				

FORM 3718.

M.O. 373

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SUR..., ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE (Contd.) 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
June									
24	Z	iP	6	12	46			10110	Dilatation.
	Z	i		13	13				Emergent on horizontal
	Z	iPP		16	35				components.
	NE	iSKS		23	14				Argentina.
	NE	iS		23	49				23°S., 68°W.
	Z	iSP		25	10				(U.S.C.G.S.)
	E	iSS		30	23				
	ZNE	eL		38					
	N	M		48	39	25	-22		
	Z	M		50	9	25	-46		
	E	M		50	14	24	+37		
		F	9	0					
24		e	14	46					Very small.
		F	15	10					
25	Z	e	15	30	13				
	ZNE	eL		36					
	N	M		38	13	12	+ 3		
		F		50					
27	NE	e	1	21	33				
	N	e		25	21				
	NE	eL	2	4					
	Z	eL		13					
	N	M		20	4	20	+2		
		F	3	30					
29	Z	i	8	42	45				Deep focus.
	Z	i		44	7				
	Z	e		46	5				
	Z	e		47	6				
	NE	e		50	45				
	ZNE	i		52	37				
	Z	i		53	50				
	ZNE	i		54	31				
	ZE	e		56	49				
	ZE	e		58	5				
	ZNE	e	9	2	41				
		eL		(12)					very small.
		F	10	10					
29		e	13	1					Very small.
		F		15					
30	Z	e	10	35	32				
	ZNE	eL		40					
		F	11	5					
30	Z	e	12	16	0				
	ZNE	eL		21					Horizontal components
		F		55					disturbed by wind.
30	Z	e	13	35					
	ZNE	eL		40					
		F	14	10					

F.J.W. Whipple,
Superintendent.

5th. July, 1934.

FORM 3718.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SUR

SEISMOLOGICAL BULLETIN FOR JULY 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
N.	3 Oct., 1933	sec. 24.7	sec. 24.9	-.04	sec-1 47.1
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1	ZNE	eL	20	50					
		F	21	40					
3	ZNE	eL	4	30					
		F	5	0					
4	Z	e	2	1	2				
	NE	eL		30					
	Z	eL		36					
		F	4	20					
6/7	ZNE	eP	23	0	44			8400	Pacific Ocean off southern Oregon 42°N., 126 °W. (U.S.C.G.S.)
	ZNE	ePP		4	2				
	NE	eS		10	24				
	NE	i		10	32				
	NE	eSS		15	22				
	NE	L		22					
	Z	L		26					
	E	M		30	17	18	+38		
	N	M		30	41	18	-61		
	Z	M		35	3	15	-69		
		F	2	55					
			—	—	—				No records 7d. 14h. 59m. to 12d. 9h. 27m.
12		e	10	30					
	NE	eL		36					
	Z	eL		40					
		F	11	20					
12		e	15	30					Very small; possibly not seismic.
		F		50					
13		e	11	4					
		F		15					

FORM 3717.

H369 W 8036,100,834,GP,923.

M.O. 373

KEW OBSERVATORY, RICHMOND, SURREY, E

International Seismological Centre From the ISC collection scanned by SISMOS

JULY (Contd.) 19

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
13		e	13	19					Very small; possibly not seismic.
		F		25					
16	Z	e	8	31	30				
	ZNE	eL	9	4					
		F		40					
								9230	Amplitudes of iP as read in mm.:- N (0.0) E +3.0 Z +7.0
18	ZE	iP	1	48	29				Azimuth about west.
	ZE	iPP		51	28				Destructive in Chiriqui
	ZNE	i		58	41				Province, Panama.
	N	iS		58	51				
	N	i	2	5	39				
	ZNE	eL		13					
	E	M		13	12	39	+380		
	N	M		17	24	23	-165		
	Z	M		18	29	15	+155		
	E	M		19	29	21	+170		
	Z	M		20	9	15	+180		
	N	M		23	31	19	-160		
		F	-	-	-				Overlapped by next shock.
								8670	Confused by coda of preceding shock.
18	Z	iP	4	12	46				
	NE	eS		22	40				
	ZNE	eL		37					
	E	M		42	9	21	-25		
	N	M		46	39	18	+15		
	Z	M		54	33	17	-27		
		F	8	0					
18		eL	16	45					
		F	17	10					
								9070	Amplitudes of iP as read in mm.:- N 0.0 E +0.7 Z +2.2
18	ZE	iP	17	11	45				Azimuth about west.
	Z	i		11	59				Repetition from 18d. 1h.
	N	i		21	46				
	NE	iS		21	59				
	E	iPS		23	28				
	E	iSS		27	23				
	ZNE	L		35					
	N	M		35	44	24	-35		
	E	M		42	4	23	+46		
	N	M		43	57	19	+27		
	E	M		43	58	21	+43		
	Z	M		44	2	19	+41		
	Z	M		45	47	19	+43		
		F	-	-	-				Overlapped by next shock.
								(15500)	Dilatation. Emergent on horizontal components. Oceania.
18	Z	iP'	19	59	36				
	NE	iPP	20	2	46				
	NE	iPKS		3	38				
	E	iPPP		5	45				
	NE	i		16	35				
	E	iSS		21	26				
	NE	iPSS		22	26				
	NE	iSSS		26	48				
	NE	L		34					
	Z	i		37	58				
	Z	eL		47					

FORM 8718.

H369,W8036,10/8834,GP.925.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
18	N	M	20	53	to	-	>350		Maxima doubtful. Traces very faint and confused by overlapping.
	E	M	21	6		-	>300		
	Z	M	20	55	58	26	+630		
		F	-	-	-				
19	Z	i	0	26	18				Overlapped by following shocks.
	ZN	e		29	5				
	NE	i		29	54				
		F	-	-	-				
19	Z	i	1	47	18				Later phases obscured by coda of previous shock.
	Z	i		56	54				
	N	i	2	3	34				
	NE	eL		15					
	Z	eL		25					
	N	M		25	34	31	+67		
	E	M		25	52	30	+76		
	N	M		27	29	28	+67		
	Z	M		43	3	18	-38		
		F	5	0					
19	Z	e	6	4	39				
	Z	e		7	42				
	ZNE	eL		22					
		F	-	-	-				
19	Z	i	7	56	27				Overlapped by next shock.
	NE	e		59	54				
	NE	e	8	17	35				
	NE	eL		44					
	Z	eL		50					
	E	M	9	0	57	20	+12		
	N	M		1	23	19	+17		
	Z	M		3	32	18	+21		
		F	10	55					
19		e	23	17	12				Very small.
		F		55					
20		e	0	15					
		F	1	10					
20	Z	e	2	22	38				
	ZNE	eL		53					
		F	3	50					
20		e	5	30					Very small.
		F		35					
20		e	14	25					Very small.
		F	15	0					
20		e	18	30					
	NE	eL	19	13					
	Z	eL		20					
	E	M		57	20	25	-9		
	N	M	20	17	4	18	+6		
	Z	M		30	59	17	+5		
		F	21	45					

FORM 3718.

H369 W8036100 834 GP 923.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
21	NE	eL	5	27					
	Z	eL		32					
		F		50					
21	Z	e	6	37	46				
	ZNE	i		41	46				
	NE	i		49	37				
	NE	i		58	56				
	NE	i	7	0	23				
	E	i		1	19				
	N	i		4	14				
	E	i		4	26				
	NE	L		11					
	Z	L		14					
	E	M		27	28	25	+140		
	N	M		34	17	20	+59		
	Z	M		50	1	18	+61		
		F	-	-	-				Overlapped by next shock.
21	ZE	iP	10	51	3				Amplitudes of iP as read in mm.:- N E Z
	N	e		54	54				0.0 +1.1 +2.0
	NE	e	11	1	9				Azimuth about west.
	E	i		1	43				
	ZE	i		2	6				
	E	i		2	43				
	NE	e		6	10				
	ZNE	eL		15					
	N	M		19	37	20	+25		
	Z	M		20	2	21	+44		
	E	M		21	8	22	-42		
	Z	M		33	18	17	-40		
		F	14	50					
22	Z	e	3	17	14				
	ZNE	e		20	54				
	NE	eL	4	3					
	Z	eL		11					
	N	M	5	8	56	16	+2		
		F		40					
22	Z	i	20	5	39				Compression. Emergent on horizontal components.
	ZNE	i		6	36				
	ZNE	i		7	2				
	ZNE	i		12	41				
	NE	i		14	15				
	ZE	i		14	28				
	NE	eL		22					very
	N	M		27	46	21	-6		Surface waves/poorly developed.
	Z	eL		28					
	F	F	21	10					
23	Z	eP	18	30	43			5830	
	ZNE	eS		38	10				
	NE	eL		44					
	Z	eL		46					
	N	M		46	7	14	-4		
		F	19	45					

FORM 3718.

H369 W8036/100834 GP923

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
24		e	3	25					
		F		50					
27		e	2	52					
		F	3	25					Very small.
27		e	13	45					
		F	14	50					
28	ZNE	e	2	27	23				
	ZNE	eL		35					
	N	M		39	44	18	+3		
		F	3	10					
28		e	16	10					Very small.
		F		35					
28/29	ZN	iP	21	48	21			8000	Amplitudes of iP as read in mm.:- N E Z
	ZN	i		51	6				-1.0 (+0.2) +2.7
	ZNE	iS		57	41				Azimuth between N and NNW.
	E	L	22	11					
	E	M		12	44	32	-35		Alaska, 56°N., 157°W.
	N Z	L		14					(U.S.C.G.S).
	N	M		16	25	27	+57		
	E	M		16	32	26	-34		
	Z	M		16	59	26	-56		
	Z	M		22	12	18	-63		
	N	M		22	34	19	-56		
		eL_2	0	2					Via the Antipodes.
		F	1	0					
30	ZNE	eL	2	23					
		F		35					
30	ZNE	eL	3	13					
		F		25					
30	ZNE	eL	4	4					
		F		20					
30	ZNE	eL	4	49					
		F	5	10					
31	NE	eL	6	49					
	Z	eL		55					
		F	7	25					
31	ZNE	e	12	13	17				Very small.
		F	13	15					

F.J.W. Whipple,
Superintendent.

7th. Aug., 1934.

FORM 3718.

H362 W8036/1008 34 GP928

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN FOR.............

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
N.	3 Oct., 1933	sec. 24.7	sec. 24.9	-.04	sec-1 47.1
E.	3 Oct., 1933	24.8	24.8	-.04	43.3
Z.	4 Oct., 1933	13.0	12.3	+.13	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Aug.									
3	Z	e	7	23	56				Horizontal components disturbed by wind.
	ZNE	eL		50					
		F	8	40					
4	Z	e	13	30					
	NE	eL	14	5					
	Z	eL		11					
		F	15	35					
6	Z	e	12	19	16				
	ZNE	eL		46					
		F	13	15					
6		e	17	34					Very small.
		F		45					
"	ZNE	e	3	59	25				
	ZNE	e	4	2	35				
	N	e		18	38				
	ZNE	e		21	18				
	N	e		26	23				
	NE	eL		43					
	Z	eL		50					
	E	M	5	1	1	22	+19		
	N	M		1	45	22	+30		
	Z	M		1	50	21	-29		
		F	7	20					
7	Z	e	11	59	47				
	NE	eL	12	17					
	Z	eL		22					
	N	M		25	10	12	-13		
	Z	M		26	44	12	-13		
		F	13	40					

FORM 3717.
H3658036 30 5 34 G.

International Seismological Centre From the ISC collection scanned by SISMOS

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. mm	Δ km.	REMARKS.
Aug. 9		e	20	39					
		F	21	30					
10		e	23	29					Very small.
		F		55					
11	Z	e	8	31	18				
	NE	eL		58					
	Z	eL	9	6					
	N	M		13	48	19	+21		
	Z	M		16	7	16	+16		
		F	10	20					
11	ZNE	i	12	20	9				
	Z	e		25	19				
	ZNE	eL		30					
		F	-	-	-				Overlapped by next shock.
11	Z	e	13	3	36				
	ZNE	eL		7					
	N	M		15	29	22	+14		
		F	14	30					
11		e	15	26					
		F		40					
12		e	14	57					Very small; possibly not seismic.
		F	15	10					
13	ZNE	e	0	3	36				
	ZNE	e		7	46				
	ZNE	e		16	48				
	NE	eL		39					
	Z	eL		44					
	E	M		53	12	27	-56		
	N	M		55	46	19	-36		
	Z	M		56	0	20	-39		
		F	2	35					
14	ZNE	i	9	9	1				
	NE	eL	10	1					
	Z	eL		11					
		F	11	5					
15	ZNE	eL	11	44					
		F	12	20					
16		i	2	16	41				Very small. Felt in northern and central Scotland. Measurements taken from experimental Wood-Anderson instrument.
		i		16	56				
		i		17	3				
		i		17	26				
		i		17	49				
		F		20					
18	NE	eL	3	23					
	Z	eL		29					
		F		55					
19/20	ZNE	eL	23	44					
		F	0	5					

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN.

AUGUST, 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Aug.									
21	NE	eL	20	22					Horizontal components disturbed by wind.
	Z	eL		26					
	N	M		25	19	24	-5		
		F	21	0					
22		e	8	2					Very small; possibly not seismic.
		F		10					
23		e	23	29					
		F		40					
24									
	ZNE	e	0	8	7				
	ZNE	e		11	7				
	NE	eL		56					
	Z	eL	1	2					
	Z	M		12	56	18	+5		
		F	2	20					
26	NE	eL	2	6					
	Z	eL		13					
	Z	M		20	11	16	+4		
		F		50					
28		e	12	6					
		F		20					
31	ZNE	eP	5	9	50			3810	Dilatation.
	ZNE	iP		9	58				Amplitudes of iP as read in mm.:- N E Z
	ZNE	ePP		11	27				-2.3 +1.0 +2.8
	ZNE	iS		15	26				Azimuth about 335°
	ZNE	L		20					Baffin Bay.
	E	M		20	20	27	+48		
	N	M		20	43	27	+62		
	N	M		24	35	17	+41		
	E	M		25	44	13	+42		
	Z	M		26	53	13	+37		
		F	7	5					
31	ZN	e	15	6	42				
	NE	e		17	28				
	NE	eL		21					
	Z	eL		26					
	N	M		27	0	16	-77		
	E	M		27	1	17	+44		
	Z	M		29	51	13	+32		
	E	M		29	54	17	+36		
		F	16	40					

F.J. Scrase,
for Superintendent.

5th. Sept., 1934.

FORM 3718.

H385.8036. 100.9/34. GP 933.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURREY, E

SEISMOLOGICAL BULLETIN FOR SEPTEMBER 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N.	5 Sept. 1934	24.7	24.5	+.01.	46.7
E.	6 Sept. 1934	24.8	24.8	-.01.	42.6
Z.	11 Sept. 1934	13.0	13.1	+.01.	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON)
TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY.
SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Sept. 1		e	7 55				
		F	8 15				
1	ZNE	e	11 56 46				
	ZNE	eL	12 5				
		F	45				
4	ZN	e	16 54 34				
	ZNE	eL	17 50				
		F	19 5				
							No records during standardisation, etc., 5d. 13h. 10m. -15h. 31m. 6d. 8h. 28m. - 16h. 33m.
6	ZNE	e	2 41				
	NE	eL	3 12				
	Z	eL	18				
		F	35				
7	ZN	i	3 43 2				
	NE	e	46 6				
	ZNE	eL	47				
	E	M	47 38	15	-7		
	Z	M	50 16	8	-4		
		F	4 10				
7		e	20 31				
		F	40				
8		e	7 7				
	NE	eL	11				
	Z	eL	15				
		F	30				
8	Z	e	11 33 56				
	Z	i	34 24				
	ZNE	eL	12 34				
		F	13 40				

FORM 3717. H 398 W 8036 100 10'34 GP 923

International Seismological Centre From the ISC collection scanned by SISMOS

NEW OBSERVATORY, RICHMOND, SUR

SEISMOLOGICAL BULLETIN. SE... 19...

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLI-TUDE.	Δ	REMARKS.
Sept.			h. m. s.	sec.	μ	km.	
11	ZNE	eL	1 29				
		F	35				
12	NE	eL	15 15				
	Z	eL	17				
	E	M	24 13	13	+5		
	Z	M	24 15	13	-5		
		F	45				
12		e	16 32				Very small; possibly not seismic.
		F	35				
12	NE	eL	18 32				
	Z	eL	39				
		F	55				
13		e	3 52				
		F	4 10				
13		e	15 9				
		F	30				
15	NE	eP	7 9 26			9070	No "Z" record.
	NE	eS	19 40				Mexico,
	NE	eL	34				20°N., 105°W.
	E	M	45 23	18	+20		(U.S.C.G.S.)
	N	M	45 48	19	+9		
		F	8 35				
16		e	14 2				
		F	35				
21	NE	e	13 2 34				Very small, traces on "Z" record.
	NE	e	3 14				
	NE	e	3 52				
		F	50				
23		e	1 54				
		F	2 5				
23	Z	e	8 18 54				
	Z	e	29 9				
	ZNE	eL	9 23				
		F	10 0				
26	Z	e	7 37 10				
	NE	e	44 33				
	NE	e	47 42				
	ZNE	eL	53				
		F	8 45				
27	ZNE	eL	23 18				
		F	35				

F.J.W. Whipple,
Superintendent.

4th. October, 1934.

FORM 3718.

H 398 W 8036, 100, 10/34, G P 923.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURR...

SEISMOLOGICAL BULLETIN FOR OCTOBER 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
N.	5 Sept.,1934	24.7 sec.	24.5 sec.	+.01	46.7 sec^{-1}
E.	6 Sept.,1934	24.8	24.8	-.01	42.6
Z.	11 Sept.,1934	13.0	13.1	+.01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
5	Z	e	20	38	11				
	E	e		48	9				
	NE	eL	21	8					
	Z	eL		12					
	E	M		13	28	22	-10		
	N	M		15	8	25	+ 8		
	Z	M		20	10	17	+ 4		
		F		50					
5		e	22	42					
		F	23	25					
6	ZE	eP	0	24	3			2190	
	NE	iS		27	42				
	ZNE	eL		29					
	E	M		30	8	17	- 4		
	N	M		30	46	14	+ 5		
		F		50					
6	ZNE	e	13	5	57				
	E	eL		12					
	ZN	eL		15					
	N	M		15	27	24	+ 7		
	E	M		16	17	16	+ 5		
		F		50					
7		e	11	3					
		F		15					
8		e	7	22					
		F		30					

International Seismological Centre From the ISC collection scanned by SISMOS

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	
10	Z	i	16	0	57				Compression. Emergent on horizontal components.
	Z	i		1	1				
	Z	i		1	20				
	ZN	e		3	5				
	N	i		10	50				
	ZN	e		14	21				
	N	e		17	2				
	E	i		23	36				
	ZN	i		24	14				
	NE	e		28	0				
	E	e		29	24				
	ZNE	eL		32					Irregular.
	N	M		36	27	26	-22		
		F	18	25					
18	Z	e	8	8	41				
	Z	e		11	39				
	NE	eL		52					
	Z	eL		59					
	N	M	9	19	5	19	+ 7		
	Z	M		23	22	20	- 8		
	E	M		27	8	18	+ 7		
		F	10	35					
19	NE	eL	21	29					
	N	M		32	4	21	+ 7		
	Z	eL		35					
		F		50					
21		e	18	48					
		F	19	10					
26	Z	i	17	24	2				Emergent on horizontal components.
	Z	i		27	43				
	N	e		34	49				
	ZNE	i		36	0				
	E	e		45	36				
	NE	eL		54					
	Z	eL		59					
	E	M		59	35	28	+29		
	N	M		59	47	28	+22		
	E	M	18	8	49	19	+21		
	N	M		9	9	16	+23		
	Z	M		9	13	17	-23		
		F		50					
27		e	11	5					Possibly not seismic.
		F		35					
29	NE	eL	0	23					
	Z	eL		30					
		F		45					
29	NE	eL	3	13					
	N	M		17	13	22	- 6		
	Z	eL		18					
		F		40					
29	NE	e	16	22					
	NE	eL		33					
	N	M		36	3	29	-20		
	Z	eL		38					
		F	17	0					

F.J.W.Whipple.
Superintendent.
3rd. Nov.,1934.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SU

SEISMOLOGICAL BULLETIN FOR NOVEMBER 1934

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec^{-1}
N.	5 Sept., 1934	24.7	24.5	+.01	46.7
E.	6 Sept., 1934	24.8	24.8	-.01	42.6
Z.	11 Sept., 1934	13.0	13.1	+.01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
Nov.			h. m. s.	sec.	μ	km.	
4 *	Z	e	3 13				
	NE	eL	35				
	Z	eL	42				
	N	M	49 21	19	-7		
		F	- - -	Overlapped by next shock			* Confused by wind.
4 *	NE	eL	4 25				
	Z	eL	30				
	N	M	5 9 58	20	+10		
		F	45				
5/6	Z	e	23 14 16				
	N	i	25 12				
	NE	e	33 2				
	NE	e	37 0				
	ZNE	eL	40				
	N	M	54 9	19	-7		
	E	M	54 39	19	-7		
	Z	M	58 41	18	+7		
		F	0 50				
7		e	14 40				
		F	45				
9	ZN	i	13 46 0				Dilatation.
	ZN	eL	54				No E-W record.
		F	14 0				

FORM 3717.
H 4.22, WE 036100/1234 GP 9/23.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

November (contd.) 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Nov. 10	ZE	e	15	44	25				
	ZNE	L		49					
	N	M		50	9	20	+7		
	Z	M		50	37	20	-8		
	E	M		50	42	18	+7		
		F	16	20					
12	ZNE	e	7	27					
	NE	L		34					
	N	M		34	21	40	(-30)		
	Z	L		36					
	N	M		38	56	19	-20		
	E	M		38	59	21	+20		
	Z	M		43	3	14	+9		
		F	8	35					
16	ZNE	eL	10	53					
		F	11	35					
16	Z	e	14	16	28				
	NE	eL		42					
	Z	eL		47					
	N	M		48	23	26	-10		
	E	M		48	47	26	+9		
		F	16	15					
18	ZNE	iP	3	30	9			5430	Compression. Turkestan. 37°N.,66.5°E. (Strasbourg).
	ZE	i		31	22				
	ZE	i		33	0				
	E	iS		37	14				
	ZN	iS		37	16				
	E	e		38	34				Surface waves poorly developed.
	NE	e		41	7				
	N	M		52	17	19	-10		
		F	4	20					
18	NE	e	15	36					
	NE	eL		42					
	Z	eL		49					
		F	16	5					
18/19	Z	i	22	59	17				Compression. Felt in Sydney, Australia. Emergent on horizontal components
	ZNE	e	23	1	26				
	Z	i		2	32				
	NE	e		8	36				
	NE	eL		36					
	Z	eL		43					
	Z	M		49	17	27	-15		
	N	M		50	57	25	-13		
	E	M		53	52	25	+6		
		F	1	0					
21	E	e	22	36	22				
	ZNE	eL		43					
		F		55					
24	ZNE	eL	14	1					
	N	M		8	48	19	+4		
		F		45					

FORM 3718.

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

November (contd.) 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLI-TUDE. μ	Δ km.	REMARKS.
Nov.									
26	NE	eL	13	0					
	Z	eL		5					
	N	M		10	6	19	-7		
		F		30					
27	ZNE	ePP	6	33	22			12200	Philippine Islands.
	ZNE	eSKS		39	16				1°S., 127°E. (U.S.C.G.S.)
	ZNE	eSP		42	37				
	NE	eL	7	3					
	Z	eL		7					
	N	M		14	18	27	-16		
	E	M		15	21	26	-13		
	Z	M		26	37	19	-9		
		F	8	0					Amplitudes as read in mm: N E Z
30	ZE	iP	2	17	53			9280	(+0.2) -0.5 -2.0
	N	eP		17	53				-0.6 +2.1 +9.6
	ZNE	i		17	55				
	ZN	e		19	11				
	NE	eSKS		28	14				
	NE	iS		28	17				large movement
	NE	eSS		33	45				
	N	eL		40					
	ZE	eL		42					
	N	M		47	40	27	+99		
	E	M		49	33	25	+93		
	Z	M		54	3	17	-74		
		F	-	-	-				Overlapped by next shock.
30	Z	iP	3	1	6				Emergent on Galitzin horizontal components; clearly recorded by experimental Wood-Anderson seismograph (N-S component) Felt at Ancona, Italy.
	NE	i		4	12				
	N	i		4	59				
	NE	i		6	45				
		F	5	5					

F.J. Scrase,
for Superintendent.

6th. Dec., 1934.

FORM 3718.

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR DECEMBER 1934.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height above M.S.L. 5m.

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING ON LONDON CLAY.

INSTRUMENTS: GALITZIN APERIODIC SEISMOGRAPHS, PHOTO-GALVANOMETRIC REGISTRATION, THREE COMPONENTS.

CONSTANTS: FOR NOTATION SEE FÜRST B. GALITZIN "VORLESUNGEN ÜBER SEISMOMETRIE" (LEIPZIG, 1914) OR G. W. WALKER "MODERN SEISMOLOGY" (LONDON, 1913).

COMPONENT.	DATE FROM WHICH CONSTANTS APPLY.	GALVANOMETER FREE PERIOD T_1.	PENDULUM FREE PERIOD T.	DAMPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec-1
N.	5 Sept.,1934	24.7	24.5	+.01	46.7
E.	6 Sept.,1934	24.8	24.8	-.01	42.6
Z.	11 Sept.,2934	13.0	13.1	+.01	109.

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK (MORRISON); TIME COMPARISONS ARE MADE DAILY WITH SIGNALS FROM GREENWICH OBSERVATORY. SEISMOMETRIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	COMPT.	PHASE.	G.M.T.	PERIOD.	AMPLITUDE.	Δ	REMARKS.
Dec.			h. m. s.	sec.	μ	km.	
1		e	19 53				
		F	20 5				
3	ZN	eP	2 50 27				Central America
	ZNE	eL	3 18				15°N., 89°W.
	E	M	28 5	18	+ 5		(U.S.C.G.S.)
		F	4 5				
4	NE	e	17 48 8				Northern Chile
	NE	e	48 43				19°S., 70°W.
	ZNE	e	49 58				(U.S.C.G.S.)
	NE	eL	18 8				
	Z	eL	11				
	E	M	13 50	23	-16		
	Z	M	14 8	23	+ 7		
	N	M	14 37	21	-12		
		F	45				
8		e	10 24				
		F	45				
15	Z	eP	2 8 25			7330	Amplitudes of iP as read in mm.:-
	ZNE	iP	8 31				N E Z
	N	eS	17 11				-0.7 -1.2 +2.0
	NE	iS	17 16				giving azimuth = 62° ±5°.
	Z	i	17 22				Tibet, 31.5°N., 89°E.
	Z	e	21 53				(Strasbourg).
	N	i	24 3				
	NE	i	24 27				
	Z	i	24 34				
	NE	i	24 40				
	ZNE	eL	28				
	E	M	33 53	28	+210		
	N	M	34 6	24	>+320		
	E	M	36 39	20	+145		

International Seismological Centre From the ISC collection scanned by SISMOS

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN.

DECEMBER (contd) 1934.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
Dec									
15	N	M		37	24	15	-270		
	N	M		38	29	15	+230		
	Z	M		39	14	15	+120		
	E	M		40	1	17	+155		
	Z	M		40	13	14	+105		
	Z	M		42	47	11	- 63		
		F	4	(30)					
17	NE	eL	16	49					Masked by microseisms.
	Z	eL		58					
	N	M	17	7	6	23	+ 13		
		F	18	0					
21		e	13	17					Very small.
		F		25					
22	ZNE	e	14	52	21				Pacific Ocean off Central America.
	ZNE	e		57	16				
	NE	e	15	0	37				8°N., 89°W. (U.S.C.G.S.).
	N	eL		2					
	E	e		2	14				
	ZE	eL		5					
	E	M		10	8	23	-35		
	Z	M		10	13	23	-40		
	N	M		12	47	19	+20		
		F	16	10					
23	ZNE	e	10	16	5				
	ZNE	i		16	10				
	N	i		17	7				
	Z	e		18	6				
	NE	eL		30					Surface waves small.
	Z	eL		36					
		F	11	0					
23		e	23	48					
		F	0	0					
24	ZNE	e	16	0	45				Confused by microseisms.
	N	i		2	41				
	NE	i		2	53				
	NE	i		3	16				
	N	M		4	33	14	+16		
		F		10					
25		e	7	28					Possibly not seismic.
		F		50					
28		e	12	50					
		F	13	30					
30	Z	e	14	20	42				Disturbed by wind and microseisms. California.
	Z	e		24	52				
	NE	L		28					
	Z	L		31					
	N	M		36	33	17	+35		
	E	M		37	21	17	+25		
	Z	M		39	19	15	+26		
		F	15	55					

International Seismological Centre From the ISC collection scanned by SISMOS

SEISMOLOGICAL BULLETIN.

DECEMBER.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. mm	Δ km.	REMARKS.
								8570	Mexico.
Dec. 31	ZNE	eP	18	58	8				
	ZNE	ePP	19	1	38				
	NE	eS		7	57				
	NE	iS		8	2				
	Z	e		9	4				
	N	eSS		12	48				
	NE	L		18					
	Z	L		25					
	N	M		26	54	20	-135		
	E	M		29	27	17	-140		
	N	M		30	28	16	+120		
	Z	M		30	29	15	-110		
		F	23	0					

F.J.W. Whipple,
Superintendent.

5th. Jan., 1935.

FORM 3718.