KEW OBSERVATORY, RICHMOND, SU[illegible]

SEISMOLOGICAL BULLETIN FOR...January.....19[illegible]...

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.	1939, June 30	24.5	8.2	0.00	77.7
E.	1939, July 21	24.3	8.1	0.00	72.8
Z.	1939, Nov. 21	14.25	12.3	-0.01	73.4

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK
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.
1940									
2	ZNE	e(L)	12	13	-				Confused by microseisms
		F		40	-				
6	ZNE	eL	09	00	-				
		F		40	-				
6	Z	i	14	23	02				eNE.
	Z	i			10				
	Z	i			31				
	N	i		26	40				
	Z	e		27	01				
	ZN	i			26				
	N	i		28	51				
	Z	i		30	30				
	Z	i		31	34				
	N	i		32	23				
	N	i		33	02				
	Z	i		34	10				
	ZN	i		36	58				
	N	i		37	12				
	ZN	i			34				
	Z	i		39	26				
	N	i		42	42				
	NE	e		45	50				
	E	e		51	50				
	E	eL_Q	15	05½	-				
	NZ	eL_R		13½	-				
	N	M		15	33	35	+54		
	Z	M		20	34	28	+29		
	E	M		24	15	26	+19		
		F	16	40	-				

FORM 3717.

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN.

....January.....19.40...

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
6	Z	iP	19	10	.04			2640	
	NE	iS		14	20				
	ZNE	i			25				Larger movement
	N	eL		17	-				
	N	i(P$_c$S)			46				
		F		40	-				
7	ZNE	e	04	10	-				
		F		30	-				
10	N	e	11	55	-				
	Z	e	12	00	-				
		F		10	-				
15	ZNE	e	13	29½	-				
		F		37					
17	Z	e	01	29	35				Doubtful pulse
	Z	e		33	24				
	ZN	i			32				eE.
	ZN	i			47				
	ZN	i		34	01				
	Z	e		37	35				
	Z	i			52				
	N	i		40	03				
	N	i			15				
	NE	i		41	07				
	E				29				
	ZN	i		42	47				
	Z	i		43	04				
	N	i			15				
	Z	i			43				
	Z	i			55				
	NE			48	25				
	N				43				
	ZNE				55				
	E	eL$_Q$	02	03	-				
	ZN	eL$_R$		08	-				
	E	M		12	00	25	-43		
	N	M		18	04	20	-43		
	Z	M			32	22	+44		
		F	04	10	-				
18			16	00	-				Time marking system out of order
19			15	00	-				Disturbance on 19d. from about 0600hrs. to 0620hrs.
20	ZNE	eL	11	15	-				
		F	12	10	-				
26	ZN	eL	08	00	-				Very small
26	Z	e	17	23	-				(Doubtful pulse
	NE	i		28	22				Small movement
	N	i		32	34				" "
	N	e		34½	-				" "
	N	e		41	34				" "
	NE	eL$_Q$		47½	-				

FORM 3718.

M.O. 455

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

January 1940

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1940.									
26	N	M	17	54	15	26	-32		
	Z	eL R		55	-				
	E	M		56	39	24	-25		
	Z	M	18	05	08	13	+19		
		F		40					
26	N	e	23	40	-				
	Z	e		44	-				
		F		48					

(Signed)

G.C. Simpson K.C.B.
Superintendent.

6th February 1940

FORM 3718.

SEISMOLOGICAL BULLETIN FOR...Febru

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.	1939, June 30	24.5	8.2	0.00	77.7
E.	1939, July 21	24.3	8.1	0.00	72.8
Z.	1939, Nov. 21	14.25	12.3	-0.01	73.4

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

DATE. 1940	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
7	Z	iP	17 27 53			8550	
	E	iS	37 41				
	N	i	38 05				52°N 175°E (USCGS)
	N	e	42 -				
	E	eL_Q	50 -				
	ZN	eL_R	59 -				Long waves poorly developed.
		F	19 00 -				
9	ZNE	eL	14 40 -				
		F	55 -				
12	NE	eL	00 48 -				
	Z	eL	53 -				Confused by microseisms
		F	01 15 -				
16	ZE	e	01 40 -				
		F	50 -				
20	ZN	iPKP	02 37 27				
	Z	i	39			15,200	Dilatation
	Z	ipPKP	38 17				
	ZN	ePP	40 23				
	N	iSKP	35				
	N	iPKS	41 09				eE
	Z	ipPP	16				Azimuth about North
	N	ipPKS	57				Focal depth about 200 Km
	ZN	epPPP	44 07				
	N	i	45 36				
	E	eSKKS	46 21				
	Z	iPSP	52 39				
	ZNE	eSS	58½ -				
	NE	eSSS	03 03½ -				

FORM 3717.

65,6036,4602,125, Gp 946, M&S3/40.

M.O. 455

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

February 1940

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
20	E	eL_Q		15	-				Long waves small
	ZN	eL_R		25	-				
		F	04	30	-				
20	ZNE	e	14	10	-				Small
		F		40	-				Confused by microseisms
22	N	eL	14	20	-				Very small
		F		35	-				
23	N	e	00	47½	-				
	N	i(L)		49	51				
	ZE	e(L)		51	-				
	N	M		51	55	10	+15		
		F	01	05	-				
24	Z	e	12	30	32				
	N	e		41	08				
	NE	eL_Q	13	01	-				
	Z	eL_R		06	-				
	Z	M		13	56	20	+15		
	N	M			59	20	+15		
		F		40	-				
29	ZNE	iP	16	13	05			2720	Compression
	ZN	i			17				
	ZNE	i			25				Amplitudes of first movement as read in mm:-
	N	iS		17	27				Z N E
	E	i			35				+2.1 +0.8 -0.8
	E	i			43				Giving azimuth 135°
	Z	i			51				
	Z	i		18	09				
	E	i			15				
	Z	i			19				
	E	i			30				
	N	i			41				
	N	eL		20½	-				
	ZE	eL		22½	-				
	N	M		23	07	14	-48		
	E	M		24	40	14	-26		
	Z	M			43	13	+40		
		F	17	10	-				

(Signed)

G.C. Simpson K.C.B.
Superintendent.

5th March 1940.

FORM 3718.

M.O. 455

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MARCH 1940

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.	D MPING CONSTANT μ^2.	$\frac{Ak}{\pi l}$
		sec.	sec.		sec-1
N.	1939, June 30	24.5	8.2	0.00	77.7
E.	1939, July 21	24.3	8.1	0.00	72.8
Z.	1939, Nov. 21	14.25	12.3	-0.01	73.4

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK
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.
1940									
3	Z	i(PkP)	00	25	18				
	Z	i			50				
	Z	i		26	13				
	ZN	eL	01	20	-				
	F		02	25	-				
4	ZN	e	20	15	27				
	N	e		19	11				
	N	eL		21	-				
	ZE	eL		22½	-				
	F			40	-				
6	ZN	eL	20	05	-				Small
	F			20	-				
7	Z	eL	08	12	-				Very small
	F			30	-				
11	ZNE	eL	12	10	-				Very small
	F			25	-				
12	ZNE	e	23	18	-				Small, not very distant
	F			22	-				
14	Z	e	18	42	49				Very small
	Z	e		47	17				
	Z	i		50	17				Small movement, confused by microseisms
	Z	i			57				
	Z	i		52	56				
	Z	e	19	00½	-				
	Z	e		02	44				
	N	e		07	37				
	Z	e		10	39				
	NE	eL_Q		30	-				

FORM 3717.

776, 8021, 3707 125. 6p. 94-8. M&S4/40.

SEISMOLOGICAL BULLETIN.

MARCH 1940

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1940									
14	Z	eL_R		40	-				
	N	M		45	19	34	+20		
	Z	M	20	03	28	22	+16		
		F		45	-				
15	ZNE	eL	06	28	-				Small
		F		42	-				Confused by microseisms
16	ZN	e	07	42	-				
		F		48	-				Very small.
18	Z	e	06	46	18				Confused by microseisms
	ZNE	eL	07	05	-				
		F		45	-				
19	N	e	04	52	05				Confused by microseisms
	N	e		56	36				
	N	e			46				
	N	e(L)	05	04½	-				
	ZE	e(L)		08	-				
		F		20	-				
21	Z	e	14	21	15				small movement
	ZNE	eL		53	-				
		F	16	10	-				
22	Z	e	20	43	40				small movement.
	ZNE	eL	21	40	-				
		F	22	40	-				
28	Z		12	43	12				All movements before 13h. 15m very small and confused by microseisms
	E	e			20				
	Z	e		48	15				
	ZN	e		50	11				
	E	e		53	-				
	ZN	e			30				
	N	e		55	27				
	Z	e(L?)		58½	-				
	E	e(L?)	13	05	-				
	N	eL		17	-				
	Z	M	13	26	20	17	+17		
		F	14	20	-				
	Z	i(P)	16	02	04			(10,500)	Focal depth about 200 km
	Z	e(pP)			54				
	Z	i(PP)		06	04				(Analysis tentative)
	Z	e(pPP)			47				
	NE	i(SKS)		12	19				
	Z	i(SP)		14	23				Large movement
	Z	e(PS)			51				
	Z			16	23				
	Z	(PKKP)		19	15				
	N	(SS)			56				
	N	e(SSS)		24½	-				
	N	eL		30	-				Long waves not well developed.
	ZE	eL		40	-				
		F	17	20	-				
30	Z	eL	00	55	-				Very small.
		F	01	10	-				

FORM 3718.

M.O.....

KEW OBSERVATORY, RICHMOND, SURR

SEISMOLOGICAL BULLETIN.

MARCH 19..40..

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1940									
31	ZE	e	17	43	-				Small, confused by microseisms.
		F		50					

(Signed)

G.C. Simpson K.C.B.
Superintendent.

2nd April 1940.

FORM 3718.

Lat. 51° 28′ 6″ N, Long. 0° 18′ 47″ W, Height abov

LITHOLOGIC FOUNDATION: RIVER GRAVEL RESTING

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.	1939, June 30	24.5	8.2	0.00	77.7
E.	1939, July 21	24.3	8.1	0.00	72.8
Z.	1939, Nov 21	14.25	12.3	-0.01	73.4

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK
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.
1940			h. m. s.	sec.	μ	km.	
1	Z	e	11 39 28				Small movements
	Z	e	42 18				
	E	e	47 15				
	ZE	e	49½-				
	Z		52 24				
	Z		55 56				
	E	e(L)	12 11½-				
	Z	eL	18 -				
	Z	eL	13 25 -				(by path greater than 180°)
		F	50 -				
6	ZE	eL	14 24 -				
		F	15 05 -				
8	ZE	e(L)	09 50 -				Confused by microseisms
		F	10 10				Very small
10	Z	e	20 36 37				
	E	eL	59 -				Very small movement
	Z	eL	21 03 -				
		F	45 -				
11	ZE	eL	09 48 -				
		F	10 15 -				Very small
13	ZNE	e	06 39 48				
	ZE	e(L)	45 -				Not very distant
		F	07 15 -				
14	E	e	15 35 -				
	Z	e	40 -				Small, confused by microseisms
		F	16 10 -				

FORM 3717.

797,8021.3707,125,Gp 946, M&S.5/40.

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1940									
16	ZN	iP	06	19	33			8,500	Compression
	Z	I			46				
	Z	i			55				Azumuth about North
	Z	i(PP)		22	49				
	NE	iS		29	19				
	E	iSKS			37				N component record defective
	ZE	iPS			55				
	Z	e(SS)		35	16				
	Z	eSSS		38	17				
	E	L_Q		39	57				
	ZE	eL_R		43½	-				
	E	M		55	08	19	+28		
	Z	M	07	05	22	17	+31		
		F							Overlapped by next shock
16	Z	iP	06	54	53			(8,600)	iP from short period instrument.
	E	(S)	07	04	45				Confused by later movement
	ZE	eL		18	-				of preceding shock
	E	M		35	54	18	+32		N component record defective
	Z	M		38	28	16	+50		
		F	09	45	-				
18	Z	eL	20	50	-				Very small
		F	21	05	-				
19	Z	e	15	18	20				Very small movement
	ZNE	eL		26	-				
		F		55	-				
20	ZNE	eL	20	36	-				Very small
		F		50	-				
22	NE	e	12	25	10				
	ZNE	e(L)		37	-				
		F		55					
23			19	50	-				No record on Galitzin
			20	40	-				instruments.
24	ZNE	eL	11	25	-				
		F	12	00	-				
24			15	15	-				No record on Galitzin
				55	-				instruments.
26	E	e(P)	07	56	35			(900)	First pulse very doubtful
	E	e(S)		58	12				(on Wood-Anderson E
	N	e(L)		59	-				component only)
	ZE	e(L)	08	00½	-				
	F			04	-				
26	N	E	21	13	50				Very small pulse.
	ZNE	e(L)		17	-				Not very distant.
		F		24	-				

SEISMOLOGICAL BULLETIN.

April 1940

DATE.	COMPT.	PHASE.	G.M.T. h.	m.	s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
1940									
26	N	e	22	26	20				Very small
		F		31	-				
27	Z	e	09	57½	-				All movements very small
	Z	E		58	32				
			10	08	-				No record during changing of charts.
				22	-				
	ZN	eL		35					
		F							Overlapped by next shock.
27	Z	e(PKPa)	10	42	42			(a15,000)	Analysis into two shocks
	Z	e(Pb)		44	39			(b8,000)	is tentative
	Z	e(PPPa)		48	39				
	N	e(SKSa)		50	07				
	N	e(Sb)		53	59				
	Z	e(SKSb)		54	48				
	N	e(SSb)		58	33				
	N	e(PSSa)	11	04	24				
	ZNE	eL(b)		06½					
	N	M(b)		09	52	13	+10		
	Z	M(b)			56	12	+9		
		F	12	45	-				
27	Z	e	18	24½	-				All movements very small
	N	e		28	-				
	Z	e		37	54				
	Z	e	19	01	-				
	ZNE	eL		10	-				
		F	20	30	-				
30	ZNE	e	05	33	-				Small
		F		55	-				

(Signed)

G.C. Simpson K.C.B.
Superintendent

3rd May 1940.

Correction to Kew Seismological Bulletin.

March 1940

The earthquake listed on the 28th at 12 hrs, is wrongly dated. The shock occurred on the 27th. The times are given correctly.

FORM 3718.

SEISMOLOGICAL BULLETIN FOR MAY

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

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.	1939, June 30	24.5	8.2	0.00	77.7
E.	1939, July 21	24.3	8.1	0.00	72.8
Z.	1939, Nov. 21	14.25	12.3	-0.01	73.4

TIME SERVICE: MINUTE TIME-MARKS ARE MADE ELECTROMAGNETICALLY BY CONTACT CLOCK
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	ZNE	eL	13 25 -				
		F	55 -				
4	Z	iP	07 35 55			8500	eN
	E	eS	45 41				
	N	iSKS	53				53°N 173°E (U.S.C.G.S.)
	N	ePS	46 11				
	N	eSS	51 03				
	ZNE	eL	08 04 -				
		F	09 40 -				
4	ZNE	eL	17 30 -				
		F	18 00 -				
4	Z	iP	21 10 07			4770	eE
	Z	ePP	12 02				(and PcP)
	N	iS	16 37				eZE
	ZN	iSS	19 53				(and ScS). large movement.
	N	i	23 23				Beginning of long waves
	N	i	24 18				not well marked.
	N	i	25 31				
	E	i	28 18				
	Z	M	31 25	17	+23		
	E	M	36	18	-20		
	N	M	52	17	+54		
		F	23 20 -				
5	Z	iP	02 16 40			9750	Compression
	E	eSKS	27 04				
	N	S	27				
	N	i	42				
	N	eSS	33½ -				
	N	eL	42 -				
	ZE	eL	45 -				

FORM 3717.

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M.O. 455

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY 1940

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
		F	04 50 -				
5	ZNE	eL	06 30 -				Very small
		F	45 -				
7	Z	P	22 30 03			3350	
	NE	eS	35 10				
	N	eSS	36 33				
	N	i(L)	41 30				Beginning of long wave
	N	i	42 26				not well marked.
	N	i	43 26				
	ZE	M	45 -				
		F	23 45 -				
10	ZE	e	02 11½-				Small
		F	20 -				
11	Z	P	14 06 30			8470	
	Z	(PcP)	56				
	Z	(ePP)	09 18				
	Z	e	12 46				
	E	S	16 14				
	ZE	eL	35 -				
		F	15 45 -				
11	Z	e(L)	21 45 -				Small
		F	22 00 -				
17	ZE	eL	02 40 -				Small
		F	03 00 -				
17			15 18 -				No record on Galitzin
			51 -				instruments
18			10 25 -				No record on Galitzin
			12 05 -				instruments.
19	Z	eP	04 48 53			8930	Felt in California
	Z	e(PcP	49 18				
	E	eS	59 -				
	N	eSKS	08				
	E	ePS	32				
	E	e	05 02 22				
	E	eSS	04 30				
	Z	eSSS	08 -				
	N	eL_Q	13 -				
	ZE	eL_R	15½-				
	N	M	21 58	14	-9		
	Z	M	25 53	14	+29		
	E	M	55	13	-16		
		F	07 45 -				
19	ZN	i	15 28 41				
	Z	i	31 39				
	Z	e	34 21				
	ZNE	e	37 33				
	E	i	41 09				N-Z records defective
		F	16 05 -				

FORM 3718.

SEISMOLOGICAL BULLETIN.

.....19.....

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
19	Z		18 28 37				
	Z		47				
	ZE	eL	19 05 -				N & Z records defective
		F	15 -				
20			10 10 -				No record on Galitzin
21			09 55 -				instruments.
	Z		19 08 03				
	Z	i	08				eE
	Z		17				Small
	Z	e	09 41				Near shock
		F	12 -				
23	Z	e	06 13½-				Small,
	ZE	e	23 -				
	E	eL	45 -				
	Z	eL	50 -				
		F	07 35 -				
24	Z	iP	16 46 55			10330	eNE, Compression
	ZNE	i	16				First movement in
	Z	iPP	50 52				minute break.
	NE	i	56 44				Small movement
	N	iSKS	57 48				eZE
	E	iS	58 08				eN. Large movement.
	N	iPS	59 22				
	ZNE	iSS	17 04 09				Large movement.
	E	eSSS	07 35				
	N	iSSS	53				Reported from Callao
	Z	i	08 30				
	N	eL_Q	10 35				
	E	eL	12 -				
	N	M	15 42	36	+970		
	Z	eL_R	18 -				
	E	M	22 50	23	+300		
	Z	M	23 18	22	+205		
	N	M	25 30	19	+250		
		F	21 40 -				
24	Z	e	19 10 55				In minute break, very small
	Z	i	13 15				larger movement.
	Z	i	31				Long train of very short
	Z	i	44				period waves.
	Z	i	58				
		F	18 -				
24	Z	iP	22 10 52			10370	eNE Compression
	Z	ePP	14½-				
	ZNE	eSKS	21 25				
	N	iS	22 07				
	NE	i	30				Probably repetition of
	Z	ePS	23 11				shock at 16h.
	N	e	25 20				
	N	eSS	27 45				
	N	eL_Q	35½-				
	ZE	eL_R	42 -				
	E	M	46 17	25	+24		
	N	M	48 32	20	-29		
	Z	M	49 56	18	+22		

SEISMOLOGICAL BULLETIN.

DATE.	COMPT.	PHASE.	G.M.T. h. m. s.	PERIOD. sec.	AMPLITUDE. μ	Δ km.	REMARKS.
25		F	01 00 -				
27	ZE	i	04 19 22				eN
	Z	i	20 37				eE Very small
	E	e	26 25				
	Z	i	33 07				
		F	50				
27	ZNE	eL	09 00 -				Small
		F	09 50 -				
28	Z	e	09 59 35				Very small (Doubtful Pulse)
	Z	e	10 00 59				Very small, on short period instrument only
	ZNE	i	01 08				
	Z	e	03 43				
	N	e	08 39				
	ZNE	e	11 03				
	Z	e	12 -				Doubtful pulse.
	NE	e	21 15				
	N	L	28 -				
	ZE	L	38 -				
	E	M	47 27	19	+10		
	N	M	52 59	22	+27		
		F	12 35 -				
29	Z	iP	02 07 35			6230	eN.
	Z	i	44				
	ZNE	eS	15 23				
	E	eSS	17 23				
	ZE	e(SSS)	22 15				
	NE	eL_Q	24 -				
	Z	eL_R	27 -				
	N	M	33 24	16	+20		
		F	04 50 -				
29	ZNE	eL	15 38 -				Small
		F	16 05				
31	N	eL	02 00 -				Small
			15 -				

(Signed)

G.C. Simpson
Superintendent

5th June 1940

FORM 3718.