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FORM : 3717.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

METEOROLOGICAL OFFICE KEW OBSERVATORY MAY. 1927 LIBRARY

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JANUARY 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT μ^2	$Ak/\pi L$ (SEC)$^{-1}$
N	1st. NOV. 1926	24·68	23·45	+0·102	47·6
E	2nd. NOV. 1926	24·80	23·31	−0·052	43·5
Z	4th. NOV. 1926	13·04	10·82	−0·220	113·9

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.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
JAN. 1	eL	8	57							
	F	9	10							
JAN. 1	eL	9	57							Part lost during changing
	F	10	10							
JAN. 2	eL	15	29							
	F		34							
JAN. 3	eL	6	19							
	F		30							
JAN. 3	e	22	(57)							
	L	23	4							
	F		20							
JAN. 11	Tr.	20	37							Not on horizontal compts.
	F		42							
JAN. 12	Tr.	1	5							
	F		15							
JAN. 15		6	54	to						Records defective
		10	0							
JAN. 15	Tr.	20	57							
	F	21	2							

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2257/20

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JANUARY 1927

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
JAN. 17	(e)	22	20							
	L		38							
	M_1		49	41	24	+17				
	M_2		50	9	22		+11			
	F	23	10							
JAN. 20	e	11	19	58						
	L		35							
	F	12	10							
JAN. 24	eP	1	25	20					[9300]	No S phase
	PR_1		29	1						
	L	2	4							
	M_1		29	39	24	+35				
	M_2		31	29	24		+21			
	M_3		32	0	21	-26				
	M_4		36	46	19			+38		
	M_5		55	41	21		-35			
	M_6		58	23	21		+36			
	M_7		58	39	23	+56				
	M_8		59	33	21			+60		
	M_9	3	0	35	22	+63				
	M_{10}		0	39	21			+59		
	M_{11}		4	54	19		+45			
	M_{12}		5	28	20	+36				
	M_{13}		5	54	20			+50		
	M_{14}		8	37	18	+33				
	M_{15}		11	50	18	+31				
	F	4	20							
JAN. 24	eP	5	20	4					(880)	Epicentre - North Sea
	e(S)		21	(49)						Felt in East of Scotland
	L		22	30						and in Norway.
	M		24		20	8	9			
	F		28	30						
JAN. 24	eL	8	2							
	F		50							
JAN. 26	eL	0	28							Badly masked by large microseisms
	F	1	25							
JAN. 30	eL	9	25							
	F		40							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. ....JANUARY....1927..

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
JAN. 31	Tr.	1	9							
	F		20							
JAN. 31	eL	6	11							
	F		18							

F. W. Whipple
Superintendent
March 28th 1927.

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR FEBRUARY 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT μ^2	$Ak/\pi L$ (SEC)$^{-1}$
N	1st. Nov. 1926	24·68	23·45	+0·102	47·6
E	2nd. Nov. 1926	24·80	23·31	−0·052	43·5
Z	4th. Nov. 1926	13·04	10·82	−0·220	113·9

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.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
FEB. 1.	e_Z	18	15	44						
	i_Z		19	2						No S phase.
	i_H		19	8						Very distant
	L		54							
	M_1	19	5	23	27	−29				
	M_2		9	53	25		+14			
	M_3		12	55	24			+25		
	M_4		13	2	23	+21				
	M_5		15	3	22		+11			
	M_6		15	30	22	−14				
	M_7		15	35	22			+16		
	F	20	25							
FEB. 3.	e	4	4	(9)						
	e_H		15	(37)						Felt in Shanghai
	L		34							
	M_1		38	39	19	+26				
	M_2		39	7	19		+27			
	M_3		43	10	17	+11				
	M_4		45	35	16	−11				
	M_5		45	38	15			+17		
	F		?							F in succeeding movement
FEB. 3.										
	L	5	32							Initial phases masked by preceding movement.
	M_1		37	58	19	+15				Probably a repetition.
	M_2		38	8	19		+16			Felt in Shanghai.
	M_3		41	55	16	+6				
	F	6	25							
FEB. 4.	e_Z	3	10							
	L		31							
	F	4	50							

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MARCH 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT μ^2	$Ak/\pi L$ (SEC)$^{-1}$
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E	2ND. NOV. 1926	24·80	23·31	−0·052	43·5
Z	4TH. NOV. 1926	13·04	10·82	−0·220	113·9

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.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
MAR. 3	eP_Z	1	24	(39)					(9400)	Δ Very uncertain. Initial phases very indefinite and disturbed by wind effects.
	(eS)		35	(10)						
	(SR_1)		40	56						
	(SR_2)		45	28						
	e		50							
	L		53							
	M_1	2	6	55	32		−107			
	M_2		7	54	30	+133				
	M_3		8	37	30		+87			
	M_4		10	58	24	+52				
	M_5		13	23	24		+66			
	M_6		16	24	23	+54				
	M_7		16	52	20			−39		
	M_8		24	8	17			+29		
	F	3	55							
MAR. 3.	iP_Z	7	2	24					9100	
	eS		12	40						
	L		32							
	M		37		23	8	7			
	F	18	10							
MAR. 6	eL	1	50							
	F	2	10							
MAR. 7	iP	9	40	14					9310	Compression. Epicentre near Mineyama, province of Tango, JAPAN. Time of origin = $9^h 27^m 46^s$ About 3 minutes of each trace lost between S and L due to changing of sheets.
	PR_1		43	33						
	iS		50	40						
	i_E	10	2	6						
	L		7							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. MARCH 1927.

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
										Nearly all + maxima off the charts.
MAR. 7. (cont.)	M_1	10	12	59	28	-345				
	M_2		13	12	28		-362			Probably +Ae at 12m59s slightly greater
	M_3		14	26	22	-332				" +An at 14m38s " "
	M_4		14	38	22		-457*			
	M_5		15	51	19			+141		
	M_6		16	19	18		-311			
	M_7		17	34	18	-402*				" +An at 17m49s " "
	M_8		17	44	18			-192		
	M_9		18	14	16		-260			
	M_{10}		18	57	15	-382*				
	M_{11}*		20	9	15			-176		
	M_{12}		21	19	14		-189*			" +Ae at 21m26s " "
	M_{13}		22	21	14			-276		
	M_{14}		22	47	13	-362*				
	M_{15}		23	56	14			-261		
	M_{16}		23	59	14	-298				
	M_{17}		24	3	15		-235			" +Ae at 24m10s " "
	F	12	45							* These amplitudes obtained by extrapolation - turning points just off the charts.
MAR. 9.	eL	16	47							
	F	17	25							
MAR. 10.	eL	23	35							
	F		50							
MAR. 12	e_Z	19	3	50						
	L		46							
	F	20	30							
MAR. 12	e_N	~~21~~ 20	40	(38)						
	e_E		40	46						Very small movements
	e		40	59						
	F		43-44							
MAR. 13	e_Z	5	45	25						
	L	6	14							
	F	7	0							
MAR. 14	eL	18	19							
	F		50							
MAR. 15	eL	17	26							
	F		50							
MAR 15	e_Z ? P	21	59	20					? 7440	
	e_H ? S	22	8	12						
	e		15							
	L		22							
	M_1		25	56	14	+6				
	M_2		30	28	14			+10		
	M_3		30	30	15		+8			
	F	23	10							
MAR 16	Tr.L	7	36							
	F		50							

P.507.1574,112,85.5/27.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. MARCH 1927

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
MAR. 18		2	30 to							Defective records
		6	50							
MAR. 20	eL	17	1							
	F		30							
MAR. 21	eL	10	50							
	F	11	25							
MAR. 21	e_Z (P)	15	19	28					[9500]	P very doubtful.
	e_N (S)		29	59						
	L		49							
	M_1	16	0	35	20		+10			
	M_2		5	53	21	+10				
	M_3		8	33	18		+8			
	M_4		9	29	18	+10				
	M_5		9	33	18			+10		
	F	17	40							
MAR. 22	e	1	11							
	L		39							
	F	2	40							
MAR. 22	eL	8	30							
	F		?							F masked by wind effect.
MAR. 24	e	14	56	44						
	L	15	0							No records on V component instrument under repair.
	M_1		0	31	23	+13				
	M_2		4	6	26		+13			
	F		15							
MAR. 25	e	3	55	15						
	L		56	30						No records on V component - instrument under repair.
	M_1		57	9	17	+7				
	M_2		57	40	17		+7			
	F	4	20							
MAR. 25		10	8 to							No records during alterations to electric light circuit.
		16	56							
MAR. 26		9	12 to							
		12	10							
MAR. 29		10	10 to							
		12	10							
MAR. 29	Tr.	22	45							mainly on N component. Extremely feeble on E and Z components.
	F		48							
MAR. 29	Tr.	23	19							
	F		22							
MAR. 29	Tr.	23	27							
	F		30							
MAR. 31	eL	21	52							
	F	22	10.							

F J W Whipple
Superintendent
April 5th 1927.

P.507

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. FEBRUARY 1927.

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
FEB. 5	Tr. L	8	24							
	F		45							
FEB. 7	Tr.	6	20							
	F		30							
FEB. 11	eL	1	46							
	F		53							* FEB. 13. see sheet 3.
* FEB. 14	iP	3	47	3					1710	Rarefaction. Destructive in Dalmatia.
	S		50	1						Time of origin 3hr. 43m. 24sec.
	L		51	15						
	M_1		51	44	8			-22		
	M_2		51	58	14	-70	-31			
	M_3		52	16	10		+32			
	M_4		52	22	8			+23		
	M_5		52	42	11	-37				
	M_6		53	1	18		-38			
	M_7		53	27	9			+24		
	F	4	30							
FEB. 14	Tr.	5	1							
	F		8							
FEB. 16	iP	1	47	31					8830	Compression. Azimuth 20° ca. Epicentre near Kamtchatka
	PR_1		50	30						Time of origin 1hr. 35m. 27sec.
	PR_2		53	59						
	S_H		57	33						
	(S_Z)		57	44						
	(SR_1)	2	3	20						
	L		11							
	M_1		21	55	18		+41			
	M_2		25	30	17	+44				
	M_3		26	32	17	+49				
	M_4		28	47	17			+75		
	M_5		29	2	16	+56				
	M_6		30	34	15			-87		
	M_7		30	37	15	-71				
	M_8		31	39	15		+36			
	M_9		33	43	14			+53		
	M_{10}		33	44	14		+34			
	M_{11}		40	23	14	-43				
	M_{12}		40	26	15			+49		
	M_{13}		41	2	15		+39			
	L′	3	36							L′ - Long waves via antipodes.
	M'_1		49	18	17		+16			
	M'_2		50	34	18			+34		
	M'_3		50	37	19	+24	+18			
	M'_4		52	28	17	+22				
	M'_5		53	8	16		+19			
	M'_6	4	5	50	16			+17		
	M'_7		5	56	16	+18				
	F	6	20							
FEB. 16	eL	9	19							Part lost in changing.
	F		55							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

FEBRUARY 1927.

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
FEB. 16	e	12	5							
	i		4							
		13	13							
FEB. 16	eL	14	4'							
	F	15	5							
FEB. 17	e_N	23	18	20						Extremely small movements.
	e_E			39						Felt in Channel Islands and North of France
	e		18	51						
	F		20	30						
FEB. 18/19	e	23	20'							
	L		49							
	F	0	20							
FEB. 19	eL	4	34							
	F	5	5							
FEB. 19	e	23	41							
	L		47							
	F		58							
FEB. 20	Tr.	2	58							
	F	3	1							
FEB. 21		9	48	to						Records defective
		13	12							
FEB. 21	eL	13	23		20	6	5	6		
	M		36							
	F		50							
FEB. 22	Tr.	20	43							
	F	21	5							
FEB. 24	Tr.	4	56							
	F	5	10							
FEB 25	eL	17	7							
	F		40							
FEB. 26	eL	3	19							
	F	4	10							
FEB. 28	eL	14	58							
	M	15	2-4		24		25	30		North compt. disturbed by wind effect
	F		55							
FEB. 13	eL	4	12							
	F		27							

F G W Whipple
Superintendent.
March 28th 19

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FORM 3711

METEOROLOGICAL OFFICE KEW OBSERVATORY MAY 1927 LIBRARY

WDC

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR APRIL 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT $\mu 2$	$Ak/\pi L$ (SEC)$^{-1}$
N	1st. NOV. 1926	24·68	23·45	+0·102	47·6
E	2nd. NOV. 1926	24·80	23·31	−0·052	43·5
Z	4th. NOV. 1926	13·04	10·82	−0·220	113·9

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.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
APR. 1	iPz	19	25	15					8500	
	PR1		28	47						
	iSN		35	0						
	L		48							L phase very feeble
	F	21	10							
APR. 4	eL	5	41							
	F	6	7							
APR. 9	Tr.	17	14							? if seismic.
	F		18							
APR. 13	eP	13	57	(24)					(10700)	Time of P very uncertain.
	S	14	8	52						
	L		31							
	M1		37	55	22	+14	−10			
	M2		43	38	20			+10		
	F	15	10							
APR. 14	iPz	6	37	26					(11500)	Destructive in neighbourhood of Mendoza and Santiago de Chile, S. America.
	iz		37	57						
	e		40	49						
	PR1		41	41						
	PR2		44·5							
	S		?							S lost during adjustment of vertical pendulum
	SR1		56	17						
	SR2	7	0	40						
	L		11							
	M1		21	7	20	+21				
	M2		21	11	20			+31		
	M3		21	29	20		+24			
	M4		26	34	17	+13				
	M5		26	49	19		+20			

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. APRIL 1927

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
APR. 14 (cont.)	M_6	7	26	53	18			+24		
	F	9	0							
APR. 16	eP_2	8	26	51					(9500)	
	S		37							
	L		55							
	M_1	9	3	23	24	+17				
	M_2		5	24	19		+12			
	M_3		8	27	18			+13		
	F	10	50							
APR. 19	e_Z	17	47·3							? Epicentre near LUZON, PHILLIPINE ISLANDS.
	e(S)		55	43						
	e	18	10							
	L		19							
	M_1		22	51	21	+25				
	M_2		23	1	21		+17			
	M_3		24	46	18	+17				
	M_4		26	58	19		+15			
	M_5		28	51	17			+13		
	F	19	0							
APR. 20	Tr.	12	31							
	F		33							
APR. 27	i_Z	3	10							
	L	4	1							
	F		40							
APR. 27	eP	19	29	44					(9000)	E-W record defective.
	eS		40							
	L	20	6							
	M		11	32	20	+5				
	F		40							
APR. 28	eL	2	51							
	F	3	5							
APR. 29	eL	11	29							
	F		40							
APR. 30	e	14	18							E-W record defective.
	L		24							
	M_N		27	4	20	+31				
	M_2		32	16	15			+12		
	F		50							

CORRECTIONS TO BULLETIN FOR MARCH 1927

		CORRECTION								
MAR. 12 (second disturbance)	e_N	20	40	(38)						
MAR. 13	L	6	14							

F G W Whipple
May 5th 1927.

A522.3442.282.85.5.27.

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FORM : 3717.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR MAY 1927.

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).

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DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
MAY 2.	e	12	57							Horizontal components disturbed by wind.
	L	13	39							
	F	14	0							
MAY 2	eL	22	35							
	F		50							
MAY 3	e_z	14	3	20						
	e		33							
	L		53							
	F	15	10							
MAY 3	eL	15	49							
	F		53							
MAY 7	eL	22	33							
	F		45							
MAY 9	eP	10	40	32					5310	
	eS		47	31						
	L		54							
	M_1	11	1	20	22		+6			Vertical record defective
	M_2		2	3	20	+9				
	F		40							
MAY 9	e	20	27	50						" " "
	L		45							
	F	21	20							
MAY 11	Tv. L	2	30							
	F		40							
MAY 13	e	0	28	30						
	L		33							
	F		45							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. MAY 1927

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
MAY 13	eL	16	9							
	F		25							
MAY 13/14	e	23	29	52						
	L	0	9							
	M_1		11	8	30		+11			
	M_2		11	24	31	+10				
	F		40							
MAY 15	eP	2	51	1					1830	near Belgrade, Jugo Slavia. Slight damage.
	S		54	9						
	L		55							
	M_1		56	16	16	+53				
	M_2		56	49	10			+32		
	M_3		57	39	9			+23		
	M_4		57	49	17		+38			
	M_5		58	9	16	+35				
	M_6		59	13	13		+28			
	F		?							F in succeeding movement
MAY 15	eL	3	20.5							
	M_1		21	1	16	+8				Initial phases masked by coda of preceding disturbance
	M_2		21	32	10			+4		
	F		40							
MAY 16	eP_Z	12	14	18					(10000)	
	PR_1		17	55						
	eS		25	(18)						
	L		50							Horizontal records disturbed by wind effect.
	M_1		53	53	19	+5				
	M_2		54	11	19		-5			
	M_3	13	1	44	17			+4		
	M_4		1	50	17		+6			
	F	14	10							
MAY 17	e	22	4	17						
	L		12							
	F	23	0							
MAY 18	eL	23	40							
	F		55							
MAY 19	e	5	38							
	L	6	6							
	F		50							
MAY 21	e_Z	17	13	25						
	Tr. L		26							
	F		45							
MAY 22	Tr.	2	8	35						On vertical component.
	F		23							
MAY 22	Tr	11	39							
	F		43							
MAY 22	eL	12	54							
	F	13	20							

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SEISMOLOGICAL BULLETIN. MAY 1927

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MAY 22/23	iP	22	43	50						Compression. Azimuth = 55°.
	PR1		46	40					7560*	→ from (PR1-P)
	PR2		48	6					7660*	→ from (PR2-P)
	eS		52 or 52	(43) (57)					(7460)† or (7740)†	→ from (S-P) Time of commencement of eS very uncertain.
	m1		52	57	18	+127				
	m2		53	49	18		-101			
	SR1		57	41					7560*	→ from (SR1-P)
	m3		58	0	28	+83				* Using Gutenberg's Table Zeitsch. für Geophysik II, 1926, Heft 8, p 307
	m4		58	34	28		+154			
	(SR2)	23	0	26						
	m5		0	38	22	+250	+115			† Using British Association Table.
	L		3							
	Mz		7	14	11			+160		
	Mz		9	2	10			+(180)		Many of the maximum displacements exceeded the range of the recorders.
	ME		9.5		27		>500			
	ME		13	7	16		>350			
	Mz		16		12			>400		
	Mz		18		11			>450		
	ME		16 to 20	‡	(16)		>370			
	Mz		22	38	14			380		‡ Several maxima during these intervals.
	ME		22	58	16		+350			
	Mz		24	59	12			310		
	ME		25	1	15		+350			EPICENTRE near 37°N, 103°E Southern edge of Gobi Desert, CHINA.
	MN		7 to 25	‡	(16)	>310				
	F	3	20							
MAY 23	eL		3	21						
	F		4	0						
MAY 23	eL		14	24						
	F			50						
MAY 23	eL		23	20						
	F			35						
MAY 24	eL		0	18						
	F			50						
MAY 24	eL		16	43						
	F			55						
MAY 25	eL		2	58						
	F		3	10						
MAY 27	eL		3	31						
	F			45						
MAY 28	eL		2	28						
	F		3	10						

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR JUNE 1927

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

LITHOLOGIC FOUNDATION : RIVER GRAVEL RESTING ON LONDON CLAY.

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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.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
JUNE 1	Tr.L	17	37							
	F		50							
JUNE 2	eP	16	48	25					(7470)	
	(S)		57	19						
	L	17	14							
	M_1		15	52	22	+7				
	M_2		21	30	17		+5			
	F		45							
JUNE 3	eP_z	7	27	21					(12800)	Probably near Island of Celebes, Malay Archipelago
	P'_z		30	58						
	PR_1		32	23						
	(S)		40	11						
	PS		42·2							
	L	8	8							
	M_1		13	51	24	+116				
	M_2		16	50	28	+174				
	M_3		16	58	28		+126			
	M_4		17	16	28			+110		
	M_5		18	9	28	-194				
	M_6		19	22	22		+104			
	M_7		21	47	22	-92				
	M_8		22	50	24			+93		
	M_9		25	48	26		+102			
	M_{10}		30	54	21			+120		
	F	10	40							
JUNE 5	eP	8	30	36					2860	
	eS		35	8						
	L		37							
	M_N		40	30	15	+17				

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SEISMOLOGICAL BULLETIN. JUNE 1927

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
JUNE 5 (cont.)	M_z	8	42	47	16			+15		
	M_E		42	51	16		+14			
	F	9	5							
JUNE 6	eP_z	18	44	12						
	e		56.5							
	L	19	41							
	F	20	30							
JUNE 10	iP_z	17	20	56					9230	
	eS		31	18						
	L		50							
	F	18	20							
JUNE 11	e_1	2	51							
	e_2	3	1							
	L		35							
	F	4	25							
JUNE 14	e	4	24	39						
	L		46							Vertical record defective
	F	5	15							
JUNE 14	Tr.L	10	28							
	F		38							
JUNE 14	eP_z	17	37	6						
	L	18	32							
	F	19	45							
JUNE 18	eL	1	43							
	F	2	0							
JUNE 19	eP	0	32	36					2640	
	S		36	50						
	L		38							
	M_1		39	30	17		+8			
	M_2		39	34	17			+11		
	M_3		40	10	14	+6				
	F	1	10							
JUNE 20	e_2	14	27	35						
	L		59							
	F	15	30							
JUNE 24	Tr.	0	15							
	F		40							
JUNE 26	eP	11	26	5					(2690)	Felt in Crimean Peninsula
	eS		30	(23)						
	L		33							N-S recorder out of action
	M_z		36	20	18			+14		
	M_E		36	28	18		+29			
	F	12	15							

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DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
JUNE 30	eP	23	4	34					2180	Felt in Greece
	eS		8	13						
	L		10							
	M		11	54	18	-24	-10			
	F	23	40							

Arrangements have been made for the circulation by wireless telegraph of details of important earthquakes observed at Kew Observatory. The information is issued from Air Ministry, London, (Call sign -G.F.A., wave length 4100m c.w.), being added to one of the meteorological synoptic reports, either that sent out at 14h 00m G.M.T or that sent out at 19h 00m G.M.T. (usually the earlier report). The code used is that adopted at Strassburg, (see - Comptes Rendues, Première Conférence, Union Géodesique et Géophysique Internationale, Annexe IV). The figure groups are preceded by the words "Seismo Kew".

J.G.W.
6. 7. 27.

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

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

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

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JULY 1.	iP	8	23	52					2440	Rarefaction.
	iS		27	52						Azimuth - 124° E of N
	L		30							? Epicentre - 36° N, 23° E
	M_1		31	36	23	+185	+113			Felt in Egypt, Greece, Italy.
	M_2		32	2	8			+50		
	M_3		32	59	14	−144				
	M_4		33	55	19		+62			
	M_5		34	22	9			+35		
	F	9	50							
JULY 2.	eL	21	16							
	F		40							
JULY 3.	eL	9	15							
	F		40							
JULY 3.	eP_2	10	57	17						
	e	11	7·2							
	L		(45)							
	F	12	55							
JULY 4.	eL	14	31							
	F		55							
JULY 6.	iP	0	8	26					2210	
	S		12	7						
	L		14							Feeble movement
	F		30							
JULY 7.	Tr.	8	19							
	L		24							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY 1927

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
JULY 7.	eP	20	15	39					5700	
	eS		23	0						
	L		32							
	M		39	11	25	-7				
	F	21	10							
JULY 8.	eL	1	22							
	F		35							
JULY 9/10										No records from 21h 10m to 7h 20m
JULY 11	eL	8	50							
	F	9	20							
JULY 11	iP	13	10	39					3690	DILATATION. Destructive in Palestine
	eS		16	8						
	L		20							
	M_1		24	11	18	+38				
	M_2		24	30	19		+16			
	M_3		25	42	22			+25		
	M_4		26	47	15			+15		
	M_5		27	2	17	+21				
	F	14	30							
JULY 12	eP	21	20	0					8720	
	iS_N		29	56						
	PS_N		30	38						
	L		46							
	M_1		53	18	24		+7			
	M_2		54	13	25	+7				
	F	22	35							
JULY 14	eL	13	38							
	F		55							
JULY 14/15	eP_z	23	37	15						
	e_z		40	50						
	e_N		51.9							Feeble disturbance
	L	0	8							
	F	1	0							
JULY 15	eL	19	11							
	F		35							
JULY 16	e_{1z} (P)	1	35	56					(2410)	
	e_{2z} (S)		39	54						
	L		40							
	F	2	0							
JULY 16	e_{1z} (P)	2	20	56					(2390)	Repetition of preceding disturbance
	e_{2z} (S)		24	52						
	L		25							
	F		41							
JULY 17	eL	9	51							
	F	10	10							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. JULY 1927

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
JULY 17/18										No records from 20h 53m to 6h 47m
JULY 17	eL	11	48							
	F	12	5							
JULY 18	e_E (P)	11	39	46						
	e		44	17						
	L	12	(33)							
	M_1		48	45	24		+4			
	M_2		51	7	22	+6				
	M_3		51	25	22			+7		
	F	13	30							
JULY 22	eP_E	4	3	5					4670	
	S		9	29						Vertical record defective
	L		14							
	M_1		21	5	19	+30				
	M_2		21	32	21		-40			
	M_3		23	42	26	-56				
	M_4		23	57	22		+32			
	F	6	10							
JULY 23	Tr.	8	52							
	L	9	2							
	F		40							
JULY 23	eL	18	15							
	F		35							
JULY 23	iP_Z	20	25	57					(4600)	
	eS		32	(17)						
	L		38.7							
	M_1		44	0	(18)	+8				
	M_2		44	27	20		+10			
	M_3		46	24	20	+14				
	M_4		46	51	20		+10			
	F	21	50							
JULY 23	iP_Z	22	48	27					(4600)	Repetition of preceding disturbance.
	eS		54	(47)						
	L	23	1.5							
	M_1		6	31	18	+5				
	M_2		6	58	19		-7			
	M_3		8	56	(18)	+9				
	M_4		9	23	(20)		+7			
	F	0	0							
JULY 25	eL	4	9							
	F		45							
JULY 25										No records from 09h 25m to 11h 58m
JULY 25	e_1	20	41	25						
	e_2		42	6						
	F		48							
JULY 27	Tr. Z	15	44							
	F	16	1							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. ..... JULY 1927

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS
JULY 28	e	6	57							
	F	7	8							
JULY 28	iP2	16	29	13					8050	? Brazil
	eS		38	35						
	L		52							Compression
	M1		55	22	31	+13				
	M2		56	22	29		+17			
	M3		59	20	24			+15		
	M4		59	26	23	+11				
	M5	17	0	43	23	+10				
	M6		1	11	21			-14		
	MT		1	20	21		+5			
	F	18	0							
JULY 29	iP2	0	15	7					(8560)	Compression
	eS		24	(55)						
	L		45							
	M1		46	45	25	+7				
	M2		54	19	18			-8		
	M3		55	16	18		+6			
	F	1	35							
JULY 30	eL	15	3							
	F		30							
JULY 31	Tr. L	21	8							
	F		15							

F. J. Scrase
for Supt.
6. 8. 27

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FORM : 3717.

METEOROLOGICAL OFFICE KEW OBSERVATORY 19 SEP. 1927 LIBRARY

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR AUGUST 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT μ^2	$Ak/\pi L$ (SEC).
N	3rd. AUG. 1927	24·68	24·78	+0·014	46·5
E	4th. AUG. 1927	24·80	23·90	+0·117	41·2
Z	17th. AUG. 1927	13·04	12·7	−0·35	115

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.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
Aug. 1	eP_z	11	42	19					8250	
	eS		51	51						
	L	12	18							
	F		40							
Aug. 1.	Tr. z	17	18							
	L		45							
	F	18	30							
Aug. 1.	Tr. z	18	59							
	L	19	28							
	F	20	35							
Aug. 2	e_z (P)	1	1	47						
	L		17							
	F		35							
Aug. 3.	Tr. L	7	11							
	F		20							
Aug. 3	—									$9^h12^m - 11^h47^m$ } Records incomplete,
	—									$13^h10^m - 15^h12^m$ } standardisations
Aug. 4	—									$9^h16^m - 11^h38^m$ } in progress.
Aug. 4	Tr.	16	9							
	F	17	10							
Aug. 5	iP	21	25	31					9170	Compression.
	PR_1		28	50						Azimuth = 28°E. of N. (±4°)
	iS		35	50						Epicentre near 40°N., 141°E.
	(PS)		36	17						Destructive in Fukushima
	SR_1		41·8							and Sendai, N.E. Japan.
	L		51							
	M_1		56	1	36		−180			
	M_2		57	28	32	−124				
	M_3		58	25	30		+124			

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1927.

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
Aug. 5. (contd.)	M_5	22	3	33	23		+99			
	M_6		5	5	23			+147		
	M_7		5	8	24	+124				
	M_8		5	37	22		+78			
	M_9		7	50	20			+99		
	M_{10}		8	5	20		-51			
	M_{11}		8	13	19	+61				
	M_{12}		9	30	18		+50			
	F	0	30							
Aug. 6.	iP	0	25	23					8050	Compression
	eS		34	45						
	L		49							
	M_1		51	30	31	+11				
	M_2		52	1	28		+10			
	M_3		57	18	21			-11		
	F	2	0							
Aug. 7.	e_H	6	40	50						No vertical component record.
	L		42·5							
	M_1		43	5	15		+4			
	M_2		43	12	15	-10				
	F		53							
Aug. 7.	eL	22	6							
	F		25							
Aug. 8.	T.	0	2							
	F		10							
Aug. 8.	e_z (P)	0	30	(32)					(2560)	
	e_H (S)		34	(42)						
	L		38							
	F		45							
Aug. 8.	e_z (P)	1	10	(33)					(7200)	
	e_H (S)		19	12						
	L		35.							
	F	2	15							
Aug. 8.	e_z (P)	3	49	30					2680	
	e_H (S)		53	49						
	L		58							
	F	4	5							
Aug. 8	e_{1z}	19	2	34						
	e_{2z}		4	40						
	L		(28)							
	F	20	5							
Aug. 9	eL	1	57							
	F	2	20							
Aug. 10	iP_z	1	47	36					8860	Dilatation.
	S		57	39						Near Costa Rica.
	PS		58	30						
	L	2	9							
	M_1		12	35	24	+16				
	M_2		13	59	27		+29			
	M_3		16	20	25	-12				
	M_4		17	7	22		+28			

P.618

Malby & Son, Tes

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. AUGUST 1927.

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
Aug. 10. (contd.)	M_5	2	17	13	22			+27		
	M_6		19	38	20		-21			
	M_7		20	38	18			-22		
	M_8		21	52	18	+13				
	F	4	0							
Aug. 10.	e(PR₁)	11	55.5							Commencement confused by wind disturbance.
	i_N	12	2	2						No vertical component record.
	L		31							Probable epicentre (according to Strasbourg). West of New Guinea.
	M_1		33	29	33	+66				
	M_2		40	2	21		+62			
	M_3		41	17	23	+67				
	M_4		41	49	20		+68			
	M_5		45	34	22		+48			
	M_6		47	34	22	+48				
	M_7		48	42	21		+43			
	M_8		55	1	22	+43				
	F	14	20							
Aug. 11. to 18.	——	9	0							Vertical component seismograph out of action for clock repairs.
	——	10	45							
Aug. 12.	e	0	56	33						
	L	1	27							
	F		45							
Aug. 12.	e	10	42							Records confused by wind disturbance
	F	11	5							
Aug. 12.	Tr.	16	48							
	F	17	5							
Aug. 13.	e	1	2	31						Felt in Canton of Grisons, Switzerland.
	F		5							
Aug. 16.	e	21	(40)							
	L	22	8							
	F		40							
Aug. 18.	eP	19	40	42						
	?S or S_c^PS		51	14					9440 or	
	(iS_E)		51	32					9830	
	(PS)		52	31						
	L	20	8							
	M_1		19	44	18		+46			
	M_2		22	43	21	+55				
	M_3		25	1	16	-54				
	M_4		25	44	16			+40		
	M_5		26	20	14		-37			
	M_6		27	59	15	+46				
	M_7		31	7	14			+40		
	F	22	50							
Aug. 20.	eL	0	5							
	F		30							
Aug. 20.	(e_z)	21	54							
	L	22	21							
	F	23	0							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. AUGUST 1927.

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
Aug. 21.	iPz,E.	0	6	46					8900	Dilatation.
	iSN,E.		16	51						Epicentre :- Central America
	SR1		22	22						
	L		28							
	M1		34	27	25		+60			
	M2		35	18	25	+20				
	M3		35	48	21			+63		
	M4		37	15	21		-47			
	M5		37	20	21			-56		
	F	2	50							
Aug. 21.	Tr.Lz	10	5							Horizontal records confused
	F	11	8							by wind disturbance.
Aug. 23.	e(P)	6	42	(4)						
	eS		52.5							
	L	7	12							
	M1		21	56	17		+8			
	M2		25	38	17	-10				
	M3		34	42	12			+7		
	F	8	10							
Aug. 24	ePz	9	8	55					(9110)	
	eSz		19	(11)						9h47m to 9h52m - Records lost
	L		38							owing to changing of charts.
	F	10	25							
Aug. 24.	eL	16	8							
	F		33							
Aug. 24.	ePz	18	21	54					(9400)	Destructive at Tainan,
	i(P)		22	2						Formosa.
	PR1		25	32						
	eS		32	24						
	L		52							
	M1		58	36	21	+15				
	M2		58	47	21		+16			
	M3	19	5	52	18	-24	-17			
	M4		6	6	16			-32		
	F	20	40							
Aug. 25.	eL	0	43							
	F	1	5							
Aug. 25.	e	17	20	57						
	L		48							
	F	18	20							
Aug. 25.	eL	23	35							
	F		50							
Aug. 26.	eL	16	51							
	F	17	0							
Aug. 29.	eL	6	23							
	F		42							
Aug. 29.	eL	8	24							
	F		55							
Aug. 29.	eL	18	31							
	F		38							

R.G. Watson,
for Superintendent.
8:9:27.

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FORM 5717
METEOROLOGICAL OFFICE
KEW OBSERVATORY
7 OCT 1927
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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KDC

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR SEPTEMBER 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT $\mu 2$	$Ak/\pi L$ (SEC)$^{-1}$
N	3rd AUG. 1927	24·68	24·78	+0·014	46·5
E	4th AUG. 1927	24·80	23·90	+0·117	41·2
Z	17th AUG. 1927	13·04	12·7	−0·35	115

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.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
SEPT. 2.	Tr.	3	10							
	F		13							
SEPT. 3.	P, i_Z, e_{NE}	19	57	8					5930	Compression.
	(PR_2)	20	0	3						Atlantic Ocean
	$i S_{N,E.}$		4	41						
	$i S_Z$		4	46						
	L		10	35						
	M_1		13	24	24		+48			
	M_2		13	30	14	+30				
	M_3		16	23	15	−25				
	M_4		16	50	17		+33			
	M_5		17	21	16			−45		$17^{min.}$ to $21^{min.}$ – long group of
	M_6		19	24	16	+24				waves with practically
	F	22	0							constant maxima.
SEPT. 5.	eL	1	51							
	F	2	20							
SEPT. 5.	Tr. L	20	37							
	F		50							
SEPT. 6.	Tr.	7	25							
	F		45							
SEPT. 7.	—									$9^h 21^m$ to $10^h 15^m$. No records.
SEPT. 7.	e_Z	13	20							
	L		33							
	F	14	15							
SEPT. 7.	e_Z	20	17·4							
	L	21	20							
	F	22	15							
SEPT. 8	P	8	56	43					(1800)	
	S		59·8							
	L	9	1							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. SEPTEMBER 1927

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
SEPT. 8. (contd.)	M_1	9	2	28	11		+9			
	M_2		3	42	11	-7				
	M_3		3	49	11			+6		
	F		30							
SEPT. 8.	e_Z	17	33							
	L	18	18							
	F	19	30							
SEPT. 9.	eL	0	22							
	F		40							
SEPT. 10.	$eL_{N,E}$	4	27							$4^h 29^m$ to $9^h 53^m$ – No vertical component record.
	F		43							
SEPT. 10.	$eL_{Z,E}$	17	19							$13^h 1^m$ on 10th to $6^h 54^m$ on 11th – no north component record
	F		50							
SEPT. 11.	$eP_{Z,E}$.	22	21	2					2640	Compression
	iP.		21	12						Azimuth - 96° E. of N. This
	eS.		25	18						gives epicentre - 43°N., 34°E.
	iS.		25	28						From Strasboorg and Kew
	$L_{N,E}$.		27	18						figures. epicentre = 45°N., 34°E
	M_1		28	35	29	+362				Destructive in Crimea and on
	M_2		29	12	(28)		+133			North coasts of Black Sea.
	M_3		32	19	14		-163	-120		A repetition of the quake of
	M_4		32	40	19	-184				26th June 1927.
	M_5		33	17	12			+85		
	M_6		34	43	11		+91			
	M_7		35	14	20	+121				
	M_8		36	16	11		+86			
	M_9		36	19	10			-130		
	M_{10}		37	12	10			+50		
	M_{11}		38	22	13		-81			
	M_{12}		40	34	18	+69				
	F		?							Overlapped by next shock.
SEPT. 11/12.	eP_Z	23	49	50						
	eS_E		54	18					2800	Repetition of preceding quake.
	L		56.1							
	M_1		59	38	12	+7				
	M_2	0	3	6	12		-7			
	M_3		4	55	10			+8		
	F	1	45							
SEPT. 12.	eP_Z	3	25	22					2750	Compression.
	eS		29	46						Repetition of Crimean quake
	iS.		29	52						
	L		31.8							
	M_1		34	53	11	+28				
	M_2		35	52	10			+18		
	M_3		38	45	10			+20		
	M_4		38	47	11		+20			
	M_5		38	49	11	-21				
	M_6		39	43	10		+20			
	M_7		39	46	10			-28		
	M_8		40	16	10	-21				
	F	4	40							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1927.

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
SEPT. 12.	eP	6	38	43					2730	Repetition of Crimean quake.
	eS		43	6						
	L		45	11						
	M_1		48	10	12	+5				
	M_2		51	58	12		-3			
	M_3		52	57	10			+4		
	F	7	15							
SEPT. 12.	T_r.	7	51							
	F	8	6							
SEPT. 12.	eP_z	13	6	41						? Repetition of Crimean quake.
	L		15							
	F		30							
SEPT. 12.	eP_z	14	29	12					2640	Repetition of Crimean quake.
	iP		29	21						
	eS_E		33	28						
	iS.		33	38						
	L		35·8							
	M_1		37	8	23	+16				
	M_2		38	55	11	+13				
	M_3		39	30	18			+20		
	M_4		39	36	16	+11				
	M_5		39	37	18		+20			
	M_6		41	17	12			-8		
	M_7		42	36	12		+8			
	M_8		44	27	10			-9		
	F	15	20							
SEPT. 12.	eP	19	36	(22)					(2690)	Repetition of Crimean quake.
	eS		40	42						
	L		44·1							
	F	20	0							
SEPT. 13.	$iP_{z,N}$	10	35	30						Compression. Probably very distant.
	L	11	25							
	F	12	35							
SEPT. 14.	e_E	2	42	41						21^h on 13^H to $6^h 53^m$ on 14^H – no vertical component record.
	L		46							
	F	3	40							
SEPT. 16.	eL	8	33							
	F		50							
SEPT. 16.	e_z	15	58	41						
	L	16	27							
	F	17	5							
SEPT. 17.	eL	1	37							
	F	2	10							
SEPT. 17.	T_r.	15	57							
	F	16	10							
SEPT. 18.	eL	2	44							
	F	3	40							
SEPT. 18	eL	6	36							
	F	7	0							
SEPT. 19	eL_z	9	42							Horizontal components disturbed by wind.
	F	10	5							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. SEPTEMBER 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
SEPT. 23.	$iP_{Z,E}$	14	3	53					6130	Compression
	eS		11	36						
	L		22							
	M_1		25	55	13	+40				
	M_2		29	13	16		+29			
	M_3		29	18	14			-29		
	F	15	0							
SEPT. 24.	eP_Z	6	19	15					(2680)	Probably a repetition of Crimean quake.
	eS_E		23	34						
	iS_E		23	41						
	L		24·5							
	M_1		27	28	19	+14				
	M_2		29	36	15		+11			
	M_3		30	24	12			+5		
	M_4		32	43	12			-6		
	F	7	10							
SEPT. 24.	eL	18	24							
	F	19	10							
SEPT. 30.	eL	8	23							
	M_1		26	52	20		+7			
	M_2		27	17	22	+7				
	F		45							

CORRECTIONS FOR BULLETIN FOR AUGUST 1927

		Correction		
AUG. 8. (3rd shock)	$e_x P$	1	9	(33)
AUG. 21 (2nd shock)	$T_r.L_Z$	10	58.	

R.G. Walker 5:10.27

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FORM 3717.

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR OCTOBER 1927.

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_f (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT μ^2	$Ak/\pi L$ (SEC)$^{-1}$
N	3rd AUG. 1927	24·68	24·78	+0·014	46·5
E	4th AUG. 1927	24·80	23·90	+0·117	41·2
Z	17th AUG. 1927	13·04	12·7	−0·35	115.

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.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
OCT. 1.	eL	1	13							
	F	2	0							
OCT. 2.	eP_z	5	0	(23)						
	L		24							
	F		50							
OCT. 2.	Tr.	10	3							
	F		20							
OCT. 2.	eL	21	38							
	F		50							
OCT. 4.	eL	0	19							
	F	1	5							
OCT. 4.	eL	3	2							
	F		15							
OCT. 4.	eL	18	30							
	F		40							
OCT. 4.	eL	22	3							
	F		25							
OCT. 5.	eL	8	41							
	F	9	30							
OCT. 5.	eL	17	26							
	F		40							
OCT. 7.	eL	14	30							No E component records
	F		45							
OCT. 7	eL	19	55							
	F	20	9							
OCT. 7.	eL	22	2							
	F		15							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER 1927.

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
OCT. 8.	eL	11	8							
	M_1		10	3	20	+5				
	M_2		15	1	17			+5		
	M_3		15	6	17		+5			
	F		20							
OCT. 8.	e(P)	19	54	30					(1190)	Felt in Vienna.
	i_E		55	3						
	i_N		55	7						
	i_Z		55	14						
	i_E		55	31						
	$e(S)_{E,N}$		56	37						
	F	20	2							
OCT. 9.	eL	5	36							
	F		50							
OCT. 10.	eL	18	40							
	F		55							
OCT. 11.	eL	0	42							
	F	1	35							
OCT. 11.	eL	1	55							
	F	2	15							
OCT. 11.	eL	3	52							
	F	4	10							
OCT. 11.	eL	5	14							
	F		35							
OCT. 11.	e	14	52							No Z component record.
	F	15	2							
OCT. 12.	eL	7	14							
	F		40							
OCT. 12.	eL	8	44							No N component record.
	F		52							
OCT. 13.	—									No records from $0^h 13^m$ to $4^h 26^m$.
OCT. 13.	Tr. L	6	46							
	F		56							
OCT. 13.	e	10	9	9						
	L		14							
	F		27							
OCT. 15.	eL	7	16							
	F		30							
OCT. 15.	eL	11	53							
	F	12	20							
OCT. 15.	Tr.	7	31							
	F		37							
OCT. 19.	eL	14	42							
	F	15	10							
OCT. 19.	eL	15	30							
	F		40							
OCT. 19	eL	23	18							
	F		55							

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SEISMOLOGICAL BULLETIN.

OCTOBER 1927

DATE.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
OCT. 22	Tr. L	2	55							
	F	3	2							
OCT. 24	i_z, e_E P	16	10	39					7320	From (eS_E − P) Dilatation.
	PR_1		13	4						Epicentre :- near Coast of Alaska.
	PR_2		14.6							
	eS_E		19	24						No. N component record.
	iS_z		19	32						
	(iS_E)		19	45						
	(PS)		19	55						
	SR_{1E}		23.7							
	SR_2		26.9							
	L		31.8							
	M_1		33	26	26		−161			
	M_2		34	55	25		−224			
	M_3		36	11	24			+180		
	M_4		36	19	22		−157			
	M_5		37	42	20		+157			
	M_6		38	53	17			+175		
	M_7		40	3	16		+146			
	M_8		40	7	15			+145		
	L_2	18	(25)							
	$W_{2,1}$	18	34	33	22		+12			
	$W_{2,2}$		41	43	19			+24		
	$W_{2,3}$		42	32	18		+12			
	$W_{2,4}$		58	6	17		+15			
	$W_{2,5}$		58	0	16			+20		
	F		?							F masked by following disturbance.
OCT. 24	eL	19	52							
	F	20	45							No N component record.
OCT. 27	Tr L_2	8	41							
	F		58							Horizontal components disturbed by wind.
OCT. 27	—									No records from $17^h 35^m$ to $20^h 54^m$.
OCT. 30.	$iP_{N,2}$	3	13	55						
	e_N		17	46						
	L		20.0							
	M_1		20	55	16		+6			
	M_2		21	20	16	+5				
	F		45							

CORRECTIONS TO BULLETIN FOR SEPTEMBER 1927

SEPT. 8 (First disturbance)	OMIT: S	8	59.8		
	INSERT: S_E	8	59	31	
	e_N		59	56	

FGWW.
Nov. 5th 1927.

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FORM : 3717.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN FOR NOVEMBER 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT $\mu 2$	$Ak/\pi L$ (SEC)$^{-1}$
N	3rd. AUG. 1927.	24·68	24·78	+0·014	46·5
E	4th. AUG 1927.	24·80	23·90	+0·117	41·2
Z	17th AUG. 1927.	13·04	12·7	−0·35	115.

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.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
Nov. 2.	—									No records from 2h to 7h30m
Nov. 4.	eP	14	3	10					8940	Compression.
	iz		3	13		+2·0*	−2·0*			* mm. on trace
	PR1 z		6	9						Azimuth = 313° (±4°), giving
	iS		13	17						Epicentre - 33°N.(±2°), 120°W(±4°)
	iPS		14	2						Destructive in California.
	SR1		18	50						
	SR2		22	35						
	(SR3)		25·5							
	L		27							
	M1		32	9	29		+116			
	M2		34	9	23		+97			
	M3		34	15	24			+130		
	M4		34	24	22	+99				
	M5		35	52	19	−92				
	M6		36	34	19		+98			
	M7		37	20	17			+125		
	M8		38	54	17	−47				
	M9		39	1	16		−104			
	M10		39	5	15			−90		
	M11		40	51	16	−47	−67			
	L2	16	6							
	W2,1		22	36	21		+5			
	W2,2		23	8	21	+10				
	W2,3		23	12	21			+8		
	F	17	5							
Nov. 5	eL	7	27							
	F		40							
Nov. 6.	eL	3	25							
	F		40							

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SEISMOLOGICAL BULLETIN. NOVEMBER 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
Nov. 7.	Tr. L	1	24							
	F	2	0							
Nov. 8.	e_Z (P)	3	23	51					(11000)	Epicentre probably in the Indian Ocean.
	e_Z (PR_1)		27.9							
	$e_{N,E}$		34.9							? ScPcS.
	$e_{N,E}$ (S)		35.8							
	L		59.1							
	M_1	4	5	59	22	+7				
	M_2		6	38	21		+8			
	M_3		11	41	18		+9			
	M_4		12	39	19	+8				
	M_5		19	7	15			+7		
	F	5	10							
Nov. 8.	Tr. L	5	24							
	F		35							
Nov. 10.	Tr. L	4	9							
	F		20							
Nov. 12.	eP	14	53	17					(4230)	Record disturbed by effect of wind.
	PR_{1Z}		54	51						
	(S)		59	(17)						
	SR_1	15	2	(12)						
	L		6							
	M_1		10	40	20	+7				
	M_2		12	55	13		+6			
	M_3		15	26	13			+5		
	F		35							
Nov. 14.	iP	0	21	25					5890	Dilatation. Epicentre (from Kew, Ksara, Belgrade & St. Louis data) = 70° N., 130° E. Northern Siberia.
	$PR_{1,Z}$		23	23						
	iS		28	55						
	SR_1		33	17						
	L		38.7							
	M_1		41	0	27	+33				
	M_2		43	21	20		+36			
	M_3		46	13	18	-32				
	M_4		47	27	15		+23			
	M_5		47	57	15	+42				
	M_6		49	58	14			+47		
	M_7		50	2	14		+39			
	F	2	0							
Nov. 14	iP	5	5	49					5930	Dilatation. Repetition of preceding quake.
	$PR_{1,Z}$		7	49						
	eS		13	21						
	SR_1		17.7							
	L		21.5							
	M_1		25	41	28	-60				
	M_2		27	45	20		+76			
	M_3		30	37	18	-65				
	M_4		31	58	16		-47			
	M_5		32	18	17			+85		
	M_6		32	23	14	+97				
	M_7		34	26	12			+50		
	M_8		34	35	14		+51			
	F	7	5							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. ..... NOVEMBER ... 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
Nov. 14.	iP_Z	7	33	21					(11000)	Compression. Felt in Chili.
	PR_1		37	29						
	i_E		44	21						May be S; more probably S_cP_cS.
	e_E (PS)		46	46						
	$SR_{1,N}$		52	44						
	L	8	3							
	M_1		8	26	31	+16				
	M_2		12	2	29			+30		
	M_3		12	10	31		-34			
	M_4		15	53	25	+15				
	M_5		20	18	19		+16			
	M_6		20	35	19	+15				
	M_7		20	40	18			+20		
	F	9	30							
Nov. 14.	$e_{Z,N}$	15	32							
	L		54							
	M_1	16	1	10	21		-8			
	M_2		1	29	22	+12				
	M_3		2	18	21			+9		
	F		45							
Nov. 15.	iP_Z	8	41	12					8440	Dilatation.
	eS_E		50	54						Small disturbance.
	L	9	(7)							
	M		18							
	F		35							
Nov. 15.	iP_Z	21	58	4					(5780)	
	e(S)	22	5	28						
	L		17							
	M_1		19	59	21		+4			
	M_2		24	35	15	+4				
	M_3		26	38	13			+5		
	F		50							
Nov. 16	—									No records from $6^h 54^m$ to $9^h 33^m$
Nov. 16	eP_Z	21	24	10					(11500)	Epicentre probably in Malay Archipelago.
	PR_1		28.7							
	$e_{N,E}$		34	51						? S_cP_cS
	e		38.3							
	$e_{N,E}(SR_1)$		45.2							
	$e_{N,E}(SR_2)$		49.5							
	L		58							
	M_1	22	3	20	35	+73				
	M_2		5	21	33		+57			
	M_3		12	10	28	-81				
	M_4		12	17	27			+60		
	M_5		12	58	24		+52			
	M_6		15	22	20			+40		
	M_7		15	38	23		+46			
	M_8		16	54	22	-36				
	F	0	0							

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FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN. NOVEMBER 1927.

DATE.	PHASE.	G.M.T. HR.	MIN.	SEC.	PERIOD. SEC.	AMPLITUDE. An μ	Ae μ	Az μ	Δ KM.	REMARKS.
Nov. 17.	Tr. E,Z	15	0							
	F		8							
Nov. 18.	e	4	6							Disturbed by microseisms.
	L		15							
	M		30	28	20	+9	+8			
	F		50							
Nov. 19.	eL_Z	8	46							Horizontal components masked by wind disturbance
	F	9	5							
Nov. 19	—									No records from $9^h 33^m$ to $10^h 26^m$.
Nov. 19.	Tr.	18	16							
	F		20							
Nov. 19.	e	23	4	16						Felt in North of France.
	$e_{N,E}$		4	47						
	i		4	53						
	F		7							
Nov. 21	eL	19	38							
	F		55							
Nov. 21/22	e_Z (P)	23	32						(9500)	Disturbed by microseisms.
	e_E		38.6							
	e_N		39.6							
	e_Z		43.5							
	$e_{N,E}$ (SR1)		48							
	$e_{N,E}$ (SR2)		53							
	L	0	1							
	M1		4	3	29		-33			
	M2		5	37	28		-38			
	M3		7	10	24		+46			
	M4		7	22	24	+47				
	M5		10	43	24		+70			
	M6		10	47	25			+70		
	M7		11	19	26	+74				
	M8		14	56	23		+86			
	M9		15	1	23			+80		
	M10		17	51	20	+58	+72			
	M11		17	55	20			+100		
	M12		19	36	19		+50			
	M13		20	45	19	-44	-51			
	M14		20	50	19			-65		
	M15		22	54	19		+23			
	F	2	20							
Nov. 22	Tr.	13	41							
	F		56							
Nov. 23.	Tr.	1	3							
	F		15							
Nov. 26	(e_Z P)*	13	7	51					(8270)	*May be microseism.
	$i_{N,E}$ (S)		17	24						
	$e_{N,E}$ (PS)		18	1						

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SEISMOLOGICAL BULLETIN.

NOVEMBER 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
Nov. 26. (cont'd)	i_z	13	19	26						Surface phase very feeble.
	L		33							
	M_E		39							
	F	14	5.							
	CORRECTIONS TO BULLETIN FOR OCTOBER 1927									
FOR OCT. 15.	Tr.	7	31							
READ OCT. 16	Tr.	7	31							
FOR OCT. 30	e_N	3	17	46						
READ OCT. 30	e_N(S)	3	17	56					(2450)	

NOTE:- Coded details of the North Siberian and the Chile earthquakes of 14th Nov. were broadcast with the Meteorological Office synoptic wireless report at 14.00 G.M.T. on the same date.

F. J. W. Whipple
Supt.
6. XII. 27.

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AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

LDC

SEISMOLOGICAL BULLETIN FOR DECEMBER 1927.

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 (SEC).	PENDULUM FREE PERIOD T (SEC).	DAMPING CONSTANT μ^2	$Ak/\pi L$ (SEC)$^{-1}$
N	3rd. AUG. 1927	24·68	24·78	+0·014	46·5
E	4th. AUG. 1927	24·80	23·90	+0·117	41·2
Z	17th. AUG. 1927	13·04	12·7	−0·35	115.

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.	PHASE.	G.M.T. HR.	G.M.T. MIN.	G.M.T. SEC.	PERIOD. SEC.	AMPLITUDE. An μ	AMPLITUDE. Ae. μ	AMPLITUDE. Az μ	Δ KM.	REMARKS.
DEC. 1.	e	5	2							Very distant.
	L		30							
	M_1		36	55	29	+13				
	M_2		38	58	27		+11			
	M_3		50	32	21	+10				
	M_4		58	4	18		+5			
	M_5		59	8	18	+7				
	F	6	10							
DEC. 1.	Tr.	23	15							
	F		25							
DEC. 5.	eL	18	48							
	F	19	5							
DEC. 11.	Tr.L z	17	0							No N record. E record disturbed by wind.
	F	19	0							
DEC. 12.	Tr. z	14	40							
	F	15	35							
DEC. 12.	(e_z)	19	13							No N record.
	L	20	20							
	F		50							
DEC. 17.	—									No records from $9^h 30^m$ to $10^h 37^m$ (oiling clocks)
DEC. 28.	eL	9	34							Earlier phases masked by microseisms and wind.
	F	10	10							

P692. 21686 85. 1/28.

Malby & Sons, T. to S.

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SEISMOLOGICAL BULLETIN.

DECEMBER 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
						An	Ae	Az		
		HR.	MIN.	SEC.	SEC.	μ	μ	μ	KM.	
DEC. 28.	eP_Z	18	31	56					8190	Epicentre probably in region of Sea of Okhotsk.
	PR_1		34	43						
	$PR_{2\,Z}$		36	24						
	eS_E		41	25						
	$PS_{E,Z}$		41	58						
	$SR_{1\,N,E}$		46	18						
	L_E		51.6							
	M_1		53	54	33		+133			
	L_N		54							
	M_2	19	0	32	29	−78				
	M_3		2	20	28	+70				
	M_4		2	39	22		+74			
	M_5		4	32	21	−96	+143			
	M_6		5	35	20	+82				
	M_7		6	35	18		−110			
	M_8		9	25	21		+85			
	M_9		12	27	14			+52		
	L_2	20	(50)							
	F	22	0							
DEC. 30.	eL	13	0							
	F		30							
DEC. 31.	eL	19	42							
	F	20	5							

J. W. Shipley.
Supt.
6. 1. 28.