

FORM : 3717.

METEOROLOGICAL
OFFICE
EDINBURGH

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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 / π 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.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
						μ	μ	μ	KM.	
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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SEISMOLOGICAL BULLETIN.

JANUARY 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
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 Felt in East of Scotland and in Norway.
	e(S)		21	(49)						
	L		22	30						
	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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..... JANUARY 1927.

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

J. G. Whipple
Superintendent
March 28th 1927.

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.

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DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
FEB. 1.	e _z	18	15	44					KM.	No S phase. Very distant
	i _z		19	2						
	i _H		19	8						
	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)					KM.	Felt in Shanghai
	e _H		15	(37)						
	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		?								
FEB. 3.	L	5	32						KM.	Initial phases masked by preceding movement. Probably a repetition. Felt in Shanghai.
	M ₁		37	58	19	+15				
	M ₂		38	8	19		+16			
	M ₃		41	55	16	+6				
	F	6	25							
FEB. 4.	e _z	3	10						KM.	
	L		31							
	F	4	50							



METEOR
OFFICE
EDINBURGH

FORM : 3717.

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.

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DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
						μ	μ	μ	KM.	
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	17	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 Sand L due to changing of sheets.
	PR ₁		43	33						
	iS		50	40						
	i _E	10	2	6						
L		7								

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SEISMOLOGICAL BULLETIN.

MARCH 1927.

DATE.	PHASE.	G.M.T.				PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.	SEC.		A _n	A _o	A _z		
MAR. 7. (cont.)	M ₁	10	12	59	28	-345			KM.	nearly all + maxima off the charts.	
	M ₂		13	12	28		-362			Probably +A _e at 12 ^m 59 ^s slightly greater	
	M ₃		14	26	22	-332				+A _n at 14 ^m 38 ^s " "	
	M ₄		14	38	22		-457*				
	M ₅		15	51	19			+141			
	M ₆		16	19	18			-311			
	M ₇		17	34	18		-402*				+A _n at 17 ^m 44 ^s " "
	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*			+A _e at 21 ^m 26 ^s " "
	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			+A _e at 24 ^m 10 ^s " "
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	40	(38)							
	e _t		40	46					Very small movements		
	e		40	59							
	F		43-44								
MAR. 13	e _z	5	45	25							
	L		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 _n ? 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	T.L	7	36								
	F		50								

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SEISMOLOGICAL BULLETIN.

MARCH 1927.

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		HR.	MIN.	SEC.		SEC.	A _n	A _e		
MAR. 18		2	30 to							Defective records
		6	50							
MAR. 20	eL F	17	1 30							
MAR. 21	eL F	10 11	50 25							
MAR. 21	e _z (P) e _n (S) L M ₁ M ₂ M ₃ M ₄ M ₅ F	15	19 28 29 59 49 0 35 5 53 8 33 9 29 9 33		20 21 18 18 18		+10 +10 +8		[9500]	P very doubtful.
MAR. 22	e L F	1	11 39 40							
MAR. 22	eL F	8	30 ?							F masked by wind effect.
MAR. 24	e L M ₁ M ₂ F	14 15	56 44 0 31 4 6 15		23 26	+13	+13			No records on V component instrument under repair.
MAR. 25	e L M ₁ M ₂ F	3	55 15 56 30 57 9 57 40 20		17 17	+7	+7			No records on V component - instrument under repair.
MAR. 25			{ 10 8 to 16 56							No records during alterations to electric light circuit.
MAR. 26			{ 9 12 to 12 10 to							
MAR. 29			{ 10 10 to 12 10 to							
MAR. 29	T _r F	22	45 48							
MAR. 29	T _r F	23	19 22							mainly on N component. Extremely feeble on E and Z components.
MAR. 29	T _r F	23	27 30							
MAR. 31	eL F	21 22	52 10.							

J. G. Whipple
 Superintendent
 April 5th 1927.

FORM : 3717.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON

OFFICE EDINBURGH
26 MAY 1927

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.

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DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
APR. 1	iP _z	19	25	15					8500	L phase very feeble
	PR ₁		28	47						
	iS _N		35	0						
	L		48							
	F	21	10							
APR. 4	eL	5	41							
	F	6	7							
APR. 9	T _r	17	14							? if seismic.
	F		18							
APR. 13	eP	13	57	(24)					(10700)	Time of P very uncertain.
	S	14	8	52						
	L		31							
	M ₁		37	55	22	+14	-10			
	M ₂		43	38	20			+10		
F	15	10								
APR. 14	iP _z	6	37	26					(11500)	Destructive in neighbourhood of Mendoza and Santiago de Chile, S. America.
	i _z		37	57						
	e		40	49						
	PR ₁		41	41						
	PR ₂		44.5							
	S		?							
	SR ₁		56	17						
	SR ₂	7	0	40						
	L		11							
	M ₁		21	7	20	+21				
	M ₂		21	11	20			+31		
	M ₃		21	29	20		+24			
	M ₄		26	34	17	+13				
	M ₅		26	49	19		+20			

S lost during adjustment of vertical pendulum

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.
SEISMOLOGICAL BULLETIN.

APRIL 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
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	e _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)	eN	20	40	(38)						
MAR. 13	L	6	14							

JGW Whipple
 May 5th 1927.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.SEISMOLOGICAL BULLETIN FOR MAY 1927

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		HR.	MIN.	SEC.		An	Ae	Az		
MAY 2.	e	12	57					5310	Horizontal components disturbed by wind.	
	L	13	39							
	F	14	0							
MAY 2	eL	22	35					5310		
	F		50							
MAY 3	e _z	14	3	20				5310		
	e		33							
	L		53							
	F	15	10							
MAY 3	eL	15	49					5310		
	F		53							
MAY 7	eL	22	33					5310		
	F		45							
MAY 9	eP	10	40	32				5310	Vertical record defective	
	eS		47	31						
	L		54							
	M ₁	11	1	20	22					
	M ₂		2	3	20	+9	+6			
	F		40							
MAY 9	e	20	27	50				5310	" " "	
	L		45							
	F	21	20							
MAY 11	Tr.L	2	30					5310		
	F		40							
MAY 13	e	0	28	30				5310		
	L		33							
	F		45							

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KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

MAY 1927

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

SEISMOLOGICAL BULLETIN.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
						μ	μ	μ	KM.	
MAY 22/23	eP	22	43	50						Compression. Azimuth = 55° 7560* → from (PR ₁ -P) 7660* → from (PR ₂ -P) (7460) [†] → from (S-P) or (7740) [†] } Time of commencement of eS very uncertain. 7560* → from (SR ₁ -P) * Using Gutenberg's Table Zeitsch. für Geophysik II, 1926, Heft 8, p 307 † Using British Association Table. Many of the maximum dis- placements exceeded the range of the recorders. †† Several maxima during these intervals. EPICENTRE near 37°N, 103°E Southern edge of Gobi Desert, CHINA.
	PR ₁		46	40						
	PR ₂		48	6						
	eS		52	(43)						
			or 52	(57)						
	m ₁		52	57	18	+127				
	m ₂		53	49	18		-101			
	SR ₁		57	41						
	m ₃		58	0	28	+83				
	m ₄		58	34	28		+154			
	(SR ₂)	23	0	26						
	m ₅		0	38	22	+250	+115			
	L		3							
	M _Z		7	14	11			+160		
	M _Z		9	2	10			+(180)		
	M _E		9.5		27		>500			
	M _E		13	7	16		>350			
	M _Z		16		12			>400		
M _Z		18		11			>450			
M _E		16 to 20		(16)		>270				
M _Z		22	38	14			380			
M _E		22	58	16		+350				
M _Z		24	59	12			310			
M _E		25	1	15		+350				
M _N		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							

Zgw
3. VI. 27.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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.

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 / π 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.
SEISMOLOGIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
JUNE 1	T _r L F	17	37							
			50							
JUNE 2	eP (S)	16	48	25					(7470)	
			57	19						
	L	17	14							
	M ₁		15	52	22	+7				
	M ₂		21	30	17		+5			
	F		45							
JUNE 3	eP ₂	7	27	21					(12800)	Probably near Island of Celebes, Malay Archipelago
	P ₂		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	ΔP	8	30	36					2860	
	eS		35	8						
	L		37							
	M _N		40	30	15	+17				

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JUNE 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
JUNE 5 (cont.)	Mz	8	42	47	16			+15		
	Me		42	51	16		+14			
	F	9	5							
JUNE 6	ePz	18	44	12						
	e		56.5							
	L	19	41							
	F	20	30							
JUNE 10	zPz	17	20	56				9230		
	eS		31	18						
	L		50							
	F	18	20							
JUNE 11	e1	2	51							
	e2	3	1							
	L		35							
	F	4	25							
JUNE 14	e	4	24	39					Vertical record defective	
	L		46							
	F	5	15							
JUNE 14	Tz.L	10	28							
	F		38							
JUNE 14	ePz	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							
	M1		39	30	17		+8			
	M2		39	34	17			+11		
	M3		40	10	14	+6				
	F	1	10							
JUNE 20	e2	14	27	35						
	L		59							
	F	15	30							
JUNE 24	Tz	0	15							
	F		40							
JUNE 26	eP	11	26	5				(2690)	Felt in Crimean Peninsula. N-S recorder out of action	
	eS		30	(23)						
	L		33							
	Mz		36	20	18			+14		
	Me		36	28	18		+29			
	F	12	15							

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			KM.	
		HR.	MIN.	SEC.		SEC.	An	Ae		
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 14⁰⁰ G.M.T. or that sent out at 19⁰⁰ G.M.T. (usually the earlier report). The code used is that adopted at Strassburg, (see - Comptes Rendus, Première Conférence, Union Géodésique et Géophysique Internationale, Annexe IV). The figure groups are preceded by the words "Seismo Kew".

JGW.

6. 7. 27.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

OFFICE
EDINBURGH

18 AUG. 1927

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.SEISMOLOGICAL BULLETIN FOR JULY 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	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.			PERIOD. SEC.	AMPLITUDE.			Δ KM.	REMARKS.
		HR.	MIN.	SEC.		A_n μ	A_e μ	A_z μ		
JULY 1.	iP	8	23	52				2440	Rarefaction. Azimuth - 124° E of N ? Epicentre - 36° N, 23° E Felt in Egypt, Greece, Italy.	
	iS		27	52						
	L		30							
	M ₁		31	36	23	+185	+113			
	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 _z	10	57	17						
	e	11	72							
	L		(45)							
	F	12	55							
JULY 4.	eL	14	31							
	F		55							
JULY 6.	iP	0	8	26				2210	Feeble movement	
	S		12	7						
	L		14							
	F		30							
JULY 7.	Tr.	8	19							
	L		24							

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.
SEISMOLOGICAL BULLETIN.

JULY 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
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 21 ^h 10 ^m to 7 ^h 20 ^m
JULY 11	eL	8	50							
	F	9	20							
JULY 11	eP	13	10	39					3690	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	
	eS _N		29	56						
	PS _N		30	38						
	L		76							
	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						Feeble disturbance
	e _z		40	50						
	e _N		51.9							
	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} (F)	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							

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

JULY 1927

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

SEISMOLOGICAL BULLETIN.

JULY 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS
		HR.	MIN.	SEC.		SEC.	An	Ae		
JULY 28	e	6	57			"	"	"	KM.	
	F	7	8							
JULY 28	iP ₂	16	29	13					8050	? Brazil
	eS		38	35						Compression
	L		52							
	M ₁		55	22	31	+13				
	M ₂		56	22	29		+17			
	M ₃		59	20	24			+15		
	M ₄		59	26	23	+11				
	M ₅	17	0	43	23	+10				
	M ₆		1	11	21			-14		
	M ₇		1	20	21		+5			
	F	18	0							
JULY 29	iP ₂	0	15	7					(8560)	Compression
	eS		24	(55)						
	L		45							
	M ₁		46	^o 45	25	+7				
	M ₂		54	19	18			-8		
	M ₃		55	16	18		+6			
	F	1	35							
JULY 30	eL	15	3							
	F		30							
JULY 31	Tr.L	21	8							
	F		15							

*J. J. Scaase
for Sept.
6. 8. 27*

FORM : 3717.

OFFICE
EDINBURGH
19 SEP 1927

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 SEISMOLOGIE" (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 / τ L (SEC) ²
N	3 rd . AUG. 1927	24.68	24.78	+0.014	46.5
E	4 th . AUG. 1927	24.80	23.90	+0.117	41.2
Z	17 th . 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.
SEISMOLOGIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
Aug. 1	eP _z	11	42	19		μ	μ	μ	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	—								912 ^m - 11 ^h 47 ^m 13 ^h 10 ^m - 15 ^h 12 ^m 9 ^h 16 ^m - 11 ^h 38 ^m	Records incomplete, standardisations in progress.
Aug. 4	—									
Aug. 4	—									
Aug. 4	Tr.	16	9							
	F	17	10							
Aug. 5	iP	21	25	31					9170	Compression, Azimuth = 28° E. of N. (± 4°) Epicentre near 40° N, 144° E. Destructive in Fukushima and Sendai, N.E. Japan.
	PR ₁		28	50						
	iS		35	50						
	(PS)		36	17						
	SR ₁		41.8							
	L		51							
	M ₁		56	1	36		-180			
	M ₂		57	28	32		-124			
	M ₃		58	25	30		+124			
	M ₄	22	2	35	25		+87			

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.
SEISMOLOGICAL BULLETIN.

AUGUST 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
Aug. 5. (cont'd.)	M ₅	22	3	33	23	μ	μ	μ	KM.	
	M ₆		5	5	23		+99			
	M ₇		5	8	24	+124		+147		
	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.	eH	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 _r	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 ₁₂	19	2	34						
	e ₂₂		4	40						
	L		(28)							
	F	20	5							
Aug. 9.	eL	1	57							
	F	2	20							
Aug. 10.	iP ₂	1	47	36					8860	Dilatation. Near Costa Rica.
	S		57	39						
	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			

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

..... AUGUST 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
Aug. 10. (contd.)	M5	2	17	13	22	μ	μ	μ	KM.	
	M6		19	38	20		-21	+27		
	M7		20	38	18			-22		
	M8		21	52	18	+13				
	F	4	0							
Aug. 10.	e(PR ₁)	11	55.5						Commencement confused by wind disturbance. No vertical component record. Probable epicentre (according to Strasbourg): West of New Guinea.	
	L	12	2	2						
	M1		31	29	33	+66				
	M2		40	2	21		+62			
	M3		41	17	23	+67				
	M4		41	49	20		+68			
	M5		45	34	22		+48			
	M6		47	34	22	+48				
	M7		48	42	21		+43			
	M8		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					9440 or 9830	
	?Sor & PS		51	14						
	(SE)		51	32						
	(PS)		52	31						
	L	20	8							
	M1		19	44	18		+46			
	M2		22	43	21	+55				
	M3		25	1	16	-54				
	M4		25	44	16			+40		
	M5		26	20	14		-37			
	M6		27	59	15	+46				
	M7		31	7	14			+40		
	F	22	50							
Aug. 20.	eL	0	5							
	F		30							
Aug. 20.	(e ₂)	21	54							
	L	22	21							
	F	23	0							

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

AUGUST 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
Aug. 21.	iP _z ,E.	0	6	46					8900	Dilatation. Epicentre :- Central America
	iS _N ,E.		16	51						
	SR ₁		22	22						
	L		28							
	M ₁		34	27	25		+60			
	M ₂		35	18	25	+20				
	M ₃		35	48	21			+63		
	M ₄		37	15	21		-47			
	M ₅		37	20	21			-56		
	F	2	50							
Aug. 21.	T _r L _z	10	5							Horizontal records confused by wind disturbance.
	F	11	8							
Aug. 23.	e(P)	6	42	(4)						
	eS		52.5							
	L	7	12							
	M ₁		21	56	17		+8			
	M ₂		25	38	17	-10				
	M ₃		34	42	12			+7		
Aug. 24.	eP _z	9	8	55					(9110)	9 ^h 47 ^m to 9 ^h 52 ^m - Records lost owing to changing of charts.
	eS _z		19	(11)						
	L		38							
Aug. 24.	F	10	25							
	eL	16	8							
Aug. 24.	F		33						(9400)	Destructive at Tainan, Formosa.
	eP _z	18	21	54						
Aug. 24.	i(P)		22	2						
	PR ₁		25	32						
	eS		32	24						
	L		52							
	M ₁		58	36	21	+15				
	M ₂		58	47	21		+16			
	M ₃	19	5	52	18	-24	-17			
	M ₄		6	6	16			-32		
	F	20	40							
	F		5							
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.E. Graham,
for Superintendent.

8:9:27.



METEOROLOGICAL OFFICE EDINBURGH 20 OCT 1927

FORM : 3717.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

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).

Table with 6 columns: COMPONENT, DATE FROM WHICH CONSTANTS APPLY, GALVANOMETER FREE PERIOD T1 (SEC), PENDULUM FREE PERIOD T (SEC), DAMPING CONSTANT μ2, Ak/πL (SEC).

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.

Main data table with columns: DATE, PHASE, G.M.T. (HR., MIN., SEC.), PERIOD (SEC.), AMPLITUDE (An, Ae, Az), Δ (KM), REMARKS.

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△ KM.	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n μ	A _e μ		
SEPT. 8. (cont'd)	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.	e _L	0	22							
	F		40							
SEPT. 10.	e _{L,N,E}	4	27						4 ^h 29 ^m to 9 ^h 53 ^m - No vertical component record.	
	F		43							
SEPT. 10.	e _{L,z,E}	17	19						13 ^h 1 ^m on 10 ^h to 6 ^h 54 ^m on 11 ^h - no north component record	
	F		50							
SEPT. 11.	e _{P_z,E}	22	21	2				2640	Compression Azimuth - 96° E. of N. This gives epicentre - 43° N., 34° E. From Strasboorg and Kew figures - epicentre - 45° N., 34° E. Destructive in Crimea and on North coasts of Black Sea. Repetition of the quake of 26 th June 1927.	
	i _P		21	12						
	e _S		25	18						
	i _S		25	28						
	L _{N,E}		27	18						
	M ₁		28	35	29	+362				
	M ₂		29	12	(28)		+133			
	M ₃		32	19	14		-163	-120		
	M ₄		32	40	19	-184				
	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.	e _{P_z}	23	49	50				2800	Repetition of preceding quake.	
	e _{S_E}		54	18						
	L		56.1							
	M ₁		59	38	12	+7				
	M ₂	0	3	6	12		-7			
SEPT. 12.	M ₃		4	55	10			+8		
	F	1	45							
	e _{P_z}	3	25	22				2750		Compression. Repetition of Crimean quake
e _S		29	46							
i _S		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								

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△ KM.	REMARKS.
		HR.	MIN.	SEC.		SEC.	A ₁₁ μ	A ₀ μ		
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 ₂	13	6	41						? Repetition of Crimean quake.
	L		15							
	F		30							
SEPT. 12.	eP ₂	14	29	12					2640	Repetition of Crimean quake.
	iP		29	21						
	eS ₀		33	38						
	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 _{2,N}	10	35	30						Compression. Probably very distant.
	L	11	25							
	F	12	35							
SEPT. 14.	eE	2	42	41						21 ^h on 13 th to 6 ^h 53 ^h on 14 th - no vertical component record.
	L		46							
	F	3	40							
SEPT. 16.	eL	8	33							
	F		50							
SEPT. 16.	e ₂	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 ₂	9	42							Horizontal components disturbed by wind.
	F	10	5							

SEISMOLOGICAL BULLETIN:

SEPTEMBER 1927.

DATE.	PHASE.	G.M.T.				PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.	SEC.		An	Ao	Az		
SEPT. 23.	iP _{Z,E}	14	3	53		μ	μ	μ	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.	e _Z P	1	9	(33)							
(3 rd shock)											
AUG. 21	T _r L _Z	10	58.								
(2 nd shock)											
<i>R. Watson</i> 5:10.27											

FORM : 3717.

17 NOV. 1927

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	$A_k / \pi L$ (SEC) ⁻¹
N	3 rd AUG. 1927	24.68	24.78	+0.014	46.5.
E	4 th AUG. 1927	24.80	23.90	+0.117	41.2
Z	17 th 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.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A_n	A_e		
						μ	μ	μ	KM.	
OCT. 1.	eL F	1	13							
		2	0							
OCT. 2.	eP _z L F	5	0	(23)						
			24							
			50							
OCT. 2.	T _r F	10	3							
			20							
OCT. 2.	eL F	21	38							
			50							
OCT. 4.	eL F	0	19							
		1	5							
OCT. 4.	eL F	3	2							
			15							
OCT. 4.	eL F	18	30							
			40							
OCT. 4.	eL F	22	3							
			25							
OCT. 5.	eL F	8	41							
		9	30							
OCT. 5.	eL F	17	26							
			40							
OCT. 7.	eL F	14	30							
			45							
OCT. 7	eL F	19	55							} No E component records.
		20	9							
OCT. 7.	eL F	22	2							
			15							

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

OCTOBER 1917.

DATE.	PHASE:	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _o		
OCT. 8.	eL	11	8			μ	μ	μ	KM.	
	M ₁		10	3	20	+5				
	M ₂		15	1	17					
	M ₃		15	6	17			+5		
	F		20				+5			
OCT. 8.	e(P)	19	54	30					(1190)	Felt in Vienna.
	L _E		55	3						
	L _N		55	7						
	L _Z		55	14						
	L _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							
	F	15	2							
OCT. 12.	eL	7	14							
	F		40							No Z component record.
OCT. 12.	eL	8	44							
	F		52							No N component record.
OCT. 13.	—									No records from 0 ^h 13 ^m to 4 ^h 26 ^m .
OCT. 13.	T _r 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.	T _r	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							

SEISMOLOGICAL BULLETIN.

SEPTEMBER 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _e		
						μ	μ	μ	KM.	
OCT. 22	T _r L F	2 3	55 2							
OCT. 24	i _z , e _E P	16	10	39					7320 - from (e _E - P) Dilatation. Epicentre: - near Coast of Alaska. No N component record.	
	PR ₁		13	4						
	PR ₂		14	6						
	e _{SE}		19	24						
	i _{SE}		19	32						
	(i _{SE})		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		?							
OCT. 24	eL F	19 20	52 45						F masked by following disturbance.	
OCT. 27	T _r L ₂ F	8	41 58						No N component record.	
OCT. 27	—								Horizontal components disturbed by wind.	
OCT. 30	i _{P,N,2} eN L M ₁ M ₂ F	3	13 17 20 20 21 45	55 46					No records from 17 ^h 35 ^m to 20 ^h 54 ^m .	
			200		16		+6			
					16	+5				
CORRECTIONS TO BULLETIN FOR SEPTEMBER 1927										
SEPT. 8 (First disturbance)	OMIT. S	8	59	8						
	INSERT. SE	8	59	31						
	eN		59	56						

JGW.
Nov. 5th 1927.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

EDINBURGH

6 DEC 1927

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 μ ²	Ak / π L (SEO) ⁻¹
N	3 rd AUG 1927.	24.68	24.78	+0.014	46.5
E	4 th AUG 1927.	24.80	23.90	+0.117	41.2
Z	17 th 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. SEISMOLOGIC READINGS CAN BE DETERMINED TO THE NEAREST SECOND.

DATE.	PHASE.	G.M.T.			PERIOD. SEC.	AMPLITUDE.			Δ KM.	REMARKS.
		HR.	MIN.	SEC.		A _n μ	A _e μ	A _z μ		
Nov. 2.	—									No records from 2 ^h to 7 ^h 30 ^m
Nov. 4.	eP	14	3	10		+2.0*	-2.0*	8940		Compression. * mm. on trace Azimuth = 313° (±4°), giving Epicentre - 33° N (±2°), 120° W (±4°) Destructive in California.
	i _z		3	13						
	PR _{1,2}		6	9						
	iS		13	17						
	iPS		14	2						
	SR ₁		18	50						
	SR ₂		22	35						
	(SR ₃)		25.5							
	L		27							
	M ₁		32	9	29		+116			
	M ₂		34	9	23		+97			
	M ₃		34	15	24			+130		
	M ₄		34	24	22	+99				
	M ₅		35	52	19	-92				
	M ₆		36	34	19		+98			
	M ₇		37	20	17			+125		
	M ₈		38	54	17	-47				
	M ₉		39	1	16		-104			
	M ₁₀		39	5	15			-90		
	M ₁₁		40	51	16	-47	-67			
	L ₂	16	6							
	W _{2,1}		22	36	21		+5			
	W _{2,2}		23	8	21	+10				
	W _{2,3}		23	12	21			+8		
	F	17	5							
Nov. 5	eL	7	27							
	F		40							
Nov. 6.	eL	3	25							
	F		40							

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.		SEC.	Am	Ae		
Nov. 7.	T _r 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						? S _c P _e S.	
	e _{N,E}		34.9							
	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.	T _r L	5	24							
	F		35							
Nov. 10.	T _r L	4	9							
	F		20							
Nov. 12.	eP	14	53	17				(4230)	Record disturbed by effect of wind.	
	PR _{1,z}		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.	
	PR _{1,z}		23	23					Epicentre (from Kew, Kisara, Belgrade & St. Louis data) = 70° N, 130° E. Northern Siberia.	
	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.	
	PR _{1,z}		7	49					Repetition of preceding quake.	
	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							

FORM : 3718.

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND.

SEISMOLOGICAL BULLETIN.

NOVEMBER 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ao		
Nov. 14.	eP ₂	7	33	21					(11000)	Compression. Felt in Chili. May be S; more probably ScPcS.
	PR ₁		37	29						
	eE		44	21						
	eE (P ₅)		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.	eP ₂	8	41	12					8440	Dilatation. Small disturbance.
	eSE		50	54						
	L	9	(7)							
	M		18							
	F		35							
Nov. 15.	eP ₂	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 ₂	21	24	10					(11500)	Epicentre probably in Malay Archipelago. ? ScPcS
	PR ₁		28.7							
	e _{N,E}		34	51						
	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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SEISMOLOGICAL BULLETIN.

NOVEMBER 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	A _n	A _s		
Nov. 17.	T _r E, Z F	15	0							
Nov. 18.	e L M F	4	6							Disturbed by microseisms.
			15							
			30	28	20	+9	+8			
			50							
Nov. 19.	eLz F	8	46							Horizontal components masked by wind disturbance
		9	5							
Nov. 19.	—									No records from 9 ^h 32 ^m to 10 ^h 26 ^m
Nov. 19.	T _r F	18	16							
			20							
Nov. 19.	e e _{N,E} i F	23	4	16						Felt in North of France.
			4	47						
			4	53						
			7							
Nov. 21	eL F	19	38							
			55							
Nov. 21/22	e _z (P) e _E e _N e _z e _{N,E} (SP) e _{N,E} (SE) L M ₁ M ₂ M ₃ M ₄ M ₅ M ₆ M ₇ M ₈ M ₉ M ₁₀ M ₁₁ M ₁₂ M ₁₃ M ₁₄ M ₁₅ F	23	32						(9500)	Disturbed by microseisms.
			38.6							
			39.6							
			43.5							
			48							
			53							
		0	1							
			4	3	29		-33			
			5	37	28		-38			
			7	10	24		+46			
			7	22	24	+47				
			10	43	24		+70			
			10	47	25			+70		
			11	19	26	+74				
			14	56	23		+86			
			15	1	23			+80		
			17	51	20	+58	+72			
			17	55	20			+100		
			19	36	19		+50			
			20	45	19	-44	-51			
			20	50	19			-65		
			22	54	19		+23			
		2	20							
Nov. 22.	T _r F	13	41							
			58							
Nov. 23.	T _r F	1	3							
			15							
Nov. 26	(e _z P)* e _{N,E} (S) e _{N,E} (PS)	13	7	51					(8270)	*May be microseism.
			17	24						
			18	1						

SEISMOLOGICAL BULLETIN.

NOVEMBER 1927.

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△ KM.	REMARKS.
		HR.	MIN.	SEC.		SEC.	An μ	Ae μ		
Nov. 26. (cont'd)	i _z L ME F	13	19	26						Surface phase very feeble.
CORRECTIONS TO BULLETIN FOR OCTOBER 1927										
FOR OCT. 15.	T _r	7	31							
READ OCT. 16	T _r	7	31							
FOR OCT. 30	e _N	3	17	46						
READ OCT. 30	e _{N(S)}	3	17	<u>56</u>					(2450)	
<p>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.</p>										
<p><i>F. J. Whipple</i> Sup? 6. x 11. 27.</p>										

FORM : 3717.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON.

METEOROLOGICAL OFFICE EDINBURGH

KEW OBSERVATORY, RICHMOND, SURREY, ENGLAND. 7 JAN. 1928

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 / π L (SEC) ⁻¹
N	3 rd AUG. 1927	24.68	24.78	+0.014	46.5
E	4 th AUG. 1927	24.80	23.90	+0.117	41.2
Z	17 th 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.			PERIOD.	AMPLITUDE.			Δ	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
						μ	μ	μ	KM.	
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.	T _r	23	15							
	F		25							
DEC. 5.	eL	18	48							
	F	19	5							
DEC. 11.	T _r L z	17	0							No N record. E record disturbed by wind.
	F	19	0							
DEC. 12.	T _r 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							

SEISMOLOGICAL BULLETIN.

DECEMBER 1927

DATE.	PHASE.	G.M.T.			PERIOD.	AMPLITUDE.			△	REMARKS.
		HR.	MIN.	SEC.		SEC.	An	Ae		
DEC. 28.	eP ₂	18	31	56		μ	μ	μ	8190	Epicentre probably in region of Sea of Okhotsk.
	PR ₁		34	43						
	PR ₂ z		36	24						
	LS _E		41	25						
	PS _{E, I.}		41	58						
	SR _{1, N, E.}		46	18						
	LE.		51.6							
	M ₁		53	54	33		+133			
	LN		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							

Fyfe Schippa.
Sup. E.
6. 1. 28.