Honolulu

MAGNETIC OBSERVATORY

EARTHQUAKE REPORT FOR THE MONTH OF Jan., 1925

GREENWICH MEAN TIME, MIDNIGHT TO MIDNIGHT.

DATE	PHASE	TIME h m s	PERIOD s	AMPLITUDE E μ	AMPLITUDE N μ	DIST-ANCE km	REMARKS
1925							
Jan. 14	•E	10 38 10					(*) INDICATES TRACE AMPLITUDE in mm.
	•N	10 39 08	15				
	•ME	10 41 33					
	•MEFE	10 39 33	12	20			
	•MEFN	10 42 08			2.0*		
		10 45					
		10 50					
Jan. 18	0	12 05 23				542	0
	iPE	12 14 18	9	37			
	iPN	12 14 18	7				
	iPRN	12 16 08	8				
	•E	12 17 47	15	12			
	iE	12 18 37	9	25			
	•N	12 18 30	10				
	iN	12 20 10	10				
	•EFE	12 21 13	12	41			
	iSN	12 21 33	10	97			
	•E	12 21 23					
	•N	12 21 57	13	39			
	•L SR1E	12 22 03					
	SR1N	12 23 47	7				
	SL	12 24 57	26				
	iSR2	12 24 50	40				
	•LE	12 25 34	14				
	LN	12 26 13	10				
	•ME	12 26 53					
	MEE	12 27 23	21				
	MEN	12 27 13	30				
	MN	12 28 22	18	213			
		12 30 25	8	101			
		12 33 38	19	105			
		12 39 00	13	65			
		12 29 30	19			255	
		12 33 11	10			59	

HONOLULU

MAGNETIC OBSERVATORY Jan., 1925

EARTHQUAKE REPORT FOR THE MONTH OF
GREENWICH MEAN TIME, MIDNIGHT TO MIDNIGHT.

DATE	PHASE	TIME h m s	PERIOD s	AMPLITUDE E μ	AMPLITUDE N μ	DISTANCE km	REMARKS
1925							
Jan. 18 (Con'd)	M_N	12 37 43	10		37		
	L_N	12 42 19	10		37		
	i_E	12 32 40	10				
	i_N	12 32 52	10				
	F_E	14 40					
	F_N	14 34					
Jan. 23	e_E	17 17 50					
	e_N	17 20	13		50		
	F	17 34					
Jan 28	iS_E	4 21 42	10	24			
	S_N	4 21 50	16		28		
	e_E	4 25 23					
	e_N	4 24 25					
	iSR_E	4 26 11	18	61	3.5		
	iSR_N	4 26 11	20		68		
	e_N	4 27 40	15				
	e_N	4 28 31					
	iL_E	4 28 45	22				
	M_E	4 30 21	21	93			
	M_N	4 30 34	18		80		
	F_E	5 52					
	F_N	5 48					
Jan. 30	e_N	17 41 56					E not recording
	e_N	17 43 55	17				
	L_N	17 46 38	11				
	M_N	17 47 36	11		26		
	F_N	?					

HONOLULU

MAGNETIC OBSERVATORY

EARTHQUAKE REPORT FOR THE MONTH OF Feb., 1925

GREENWICH MEAN TIME, MIDNIGHT TO MIDNIGHT.

DATE	PHASE	TIME h m s	PERIOD s	AMPLITUDE E μ	AMPLITUDE N μ	DISTANCE km	REMARKS
1925							
Feb. 1	S(?)	5 40 10	11				
	L	5 47 09	22				
	M	5 48 00	20	70			
	M	5 54	19	35			
	M	6 00	16	20			
	M	5 49 18	21		64		
	F	6 36					
	F	6 82					
Feb. 1	0	20 30 01				11,540	Interpretation doubtful Origin based on P.S. and SR_3. All preliminary tremors except eS_E are merely irregularities in the Microseism.
	eP_N	20 44 12					
	S_E	20 56 18					
	eS_N	20 56 42					
	SR_{3E}	21 11 18					
	SR_{3N}	21 11 35					
	iL_E	21 17 37					
	L_E	21 18 57					
	eL_N	21 17 13	9				
	iL_N	21 18 12	10				
	L_N	21 20 32	7				
	M_E	21 19 23	8	30			
	M_E	21 22 36	7	35			
	M_N	21 20 41	7		42		
	L_{RE}	22 17 53					Periods of pendulums: 12.0 S
	L_{RN}	22 18 14	10				Damping ratios: E 25:1;
	M_E	22 22 33	5	15			N. aperiodic
	M_N	22 21 03	7		15		
	F	22 25					Multiplication: 150
							Sensitivities: E, 0.172;
							N, 0.203

H. E. MC COMB,
MAGNETIC OBSERVER.

HONOLULU MAGNETIC OBSERVATORY

EARTHQUAKE REPORT FOR THE MONTH OF Feb. 192 5

GREENWICH MEAN TIME, MIDNIGHT TO MIDNIGHT.

DATE	PHASE	TIME	PERIOD	AMPLITUDE E	AMPLITUDE N	DISTANCE	REMARKS
1925		h m s	s	μ	μ	km	
Feb. 2	S	13 45 20					
	eE	13 46 30					
	SR_1N	13 49 25					
	SR_2E	13 51 15	18				
	L_E	13 52 51	20				
	L_N	13 52 29	20				
	ME	13 54 00	20	42			
	MN	13 54 34	20		42		
	F	15 00					
Feb. 2	iS	20 03 00					
	SR_1E	20 06 58	21				
	SR_1N	20 07 03	25				
	iL	20 09 47	22				
	L_{N2}	20 10 30	20				
	M_E	20 12 58	20	97			
	M_N	20 12 15	20		68		
	CE	20 23					
	CN	20 30					
	F	21 06					
Feb. 9	O	14 10 05				5740	
	P	14 19 20					
	eE	14 23 22					
	eN	14 24 38					
	iSE	14 26 42	22				
	SN	14 27 00					
	eE	14 30 09					
	eN	14 30 25					
	SR_2E	14 32 30	14				
	SR_2N	14 32 25					
	iL	14 34 50	28				
	M_E	14 38 35	20	120			
	M_N	14 37 44	20		106		
	CE	14 59					
	FE	15 18					
	FN	15 06					

HONOLULU MAGNETIC OBSERVATORY
EARTHQUAKE REPORT FOR THE MONTH OF MARCH, 1925
GREENWICH MEAN TIME, MIDNIGHT TO MIDNIGHT

DATE	PHASE	TIME	PERIOD	AMPLITUDE E	AMPLITUDE N	DIST-ANCE	REMARKS
		H. m. s.	Sec.	μ	μ	Km.	
Mar 1	e_E	2 41 00					INDEFINITE. NS NOT OPERATING.
	e_E	2 52 35					
	e_E	2 57 18					
	e_E	3 01 45					
	M_E	3 02					
	F_E	3 30					
Mar 16	ePS_E ?	15 07 33					MICROSEISMS MASK PRELIMINARY PHASES.
	eSR_{2N}	15 15 55					
	e_E	15 19 48					
	eL_E	15 25 13					
	eL_E	15 26 40	30				
	eB_N	15 22 41	25	35			
	M_E	15 28 41	27		50		
	F	15 58					
Mar 18	e_N	14 25 30	11				
	e_N	14 26 45					
	L_E	14 28					
	L_N	14 28 44	17				
	M_E	14 33 12					
	M_N	14 31 35	10		12		
	F	14 37					
Mar 22	e	8 41 28				6040	
	P_E	8 51 04	20				
	P_N	8 51 01	20				
	e_N	8 52 20	17				
	e_E	8 58 13	18				
	S_N	8 58 39	21				
	iS_E ?	8 58 51	17				
	e_N	9 01 00	23				
	iSR	9 03 16					
	iL_E	9 05 20	13 ?				
	iL_E	9 05 55	20				
	e_E	9 06 17					
	eL_N	9 05 15	30				
	iL_N	9 06 48	22				
	M_E	9 07 17	20	263			
	M_N	9 07 09	20		270		
	F	10 40					

			H. m. s.	Sec.	μ	μ	Km.
Mar 29		S E L E M E F E	21 34 37 21 50 21 58 22 20	11 17	 17		

T_o = 12.0 sec.
V = 150
DAMPING RATIO, 25 : 1
SENSITIVITY: E, 0.172; N, 0.203

H. E. MCCOMB,
MAGNETIC OBSERVER.

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory, Honolulu (HWA.)

φ = 21° 19.'2 N λ = 158° 03.'8 W h = 15 m.

Instrument	Component	Mass	T_o	V	ϵ	Sensitivity
Milne-Shaw	EW	1 gm.	12.0 s	150	26:1	24.9 mm.
do	NS	1	12.0	150	20:1	29.2

Date	Phase	G. M. T.	Period	Amplitude E	Amplitude N	Remarks
1925		h. m. s.	s	μ	μ	
Apr 6	e_E	21 18 06				
	eI_N	21 19 36				
	M_E	21 20 37	10	15		
	M_N	21 20 50	10		16	
	F_E	21 42				
	F_N	21 41				
7	e_N(?)	18 26 59				Microseisms mask phases on N-S. Heavy microseisms on both components. M and F lost in microseisms.
	e_E	18 39 36				
	eL_E	18 42 05	16	24		
11	0	10 41 37				Distance 17140 km.
	P_E	11 01 50	2	29		Primary phase very pronounced on both components. Long wave phase lasts about one hour on both components with several points of maximum amplitude.
	P_N	11 01 57	3		17	
	PR_{1N}	11 05 18	10		55	
	PR_{2E}(?)	11 07 46	6	10		
	PR_{2N}(?)	11 07 52	11		15	
	L_E	11 13 35	16	14		
	e_E	11 14 00	12	7		
	iPS_N	11 17 12	4		10	
	e_N	11 19 30	15		13	
	SR_{1N}	11 24 55				
	e_E	11 25 58	9	8		
	e_E	11 28 10	12	10		
	eSR_{2E}(?)	11 30 30	9	8		
	L_E	11 35 20	20	29		
	e_N	11 42 50				
	e_N	11 49 50				
	L_E	11 54				
	eL	11 58 16	21			
	M_E	11 59 40	22	44		
	M_N	11 59	20			
	L_{KE}	12 34 50	25	39		
	F	13 11				
16	0	19 52 50				Distance 8180 km.
	P_E	20 04 20	6	12		No definite L phase or M on N-S component.
	S_E	20 13 53				
	iSE_{1E}	20 18 22	10	13		
	S_N	20 13 49				
	e_N	20 14 02				
	SR_{1N}	20 18 23				
	SR_{2N}	20 21 57	-			
	e_N	20 23 29	27		52	
	eL_E	20 27 15	25	60		
	M_E	20 32 30	20	48		
	F	21 06				

* indicates trace amplitude in one-tenth millimeters.

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory. Honolulu (Ewa.) (Continued)

Date	Phase	G.M.T.	Period	Amplitude E	Amplitude N	Remarks.
1925		h. m. s.	s	μ	μ	
Apr 22	e_E	23 33 22				No definite L phase or M on N-S component.
	eL_E	23 45 10	30			
	e_N	23 45 39			1*	
	M_E	23 49 20	20	42		
	C_E	23 58				
	F	24 03				
25	e_E	13 34 59	6	12		Possibly non-seismic.
	e_N	13 34 59	10		16	
	e_N	13 37 38	10			
	e_N	13 40 38	10			
	F	13 47				
26	e_E	9 07 00				
	eL_N	9 06 30	20		23	
	M_E	9 11 30		20*		
	M_N	9 12 00	20		23	
	F_E	9 19				
	F_N	9 20				
27	eL_E	7 15 30	20			
	M_E	7 16 30	20	10		Microseisms mask phases on N-S component.
	F_E	7 19				
May 3.	O	17 22 08				Distance 8260 km.
	P_E	17 33 43	2	12		
	e_E	17 37 57	8	9		
	eP_N	17 33 57	7		7	
	S_E	17 43 21	22	93		
	S_N	17 45 16			27*	
	L_E	17 56 18	30	174		
	M_E	18 00	22	209		
	L_N	17 53 21	37			
	M_N	17 54 18	27		123	
	M_N	18 00	20		50	
	F_E	18 35				
	F_N	18 40				
3	O	23 00				Approximate distance 16500 km.
	P_E	23 18 53	6	20		
	P_N	23 18 58	3		13	
	e_N	23 28. 05	15		10	
4	eL_E	0 11 53	20	19		
	M_E	0 17	20	40		
	eL_N	0 13 57	20			
	M_N	0 17	20		27	
	F	1 30				
4	e_E	11 50 06	5	4		
	e_N	11 46 43	7		6	
	eL_E	11 53 23	12	8		
	M_E	11 57	20	25		
	eL_N	11 54 15	20		15	
	M_N	11 57	15		12	
	F_E	12 03				
	F_N	12 02				

* indicates trace amplitude in one-tenth millimeters.

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory, Honolulu (Ewa.) (Cont'd.)

Date	Phase	G.M.T.	Period	Amplitude E	Amplitude N	Remarks
1925		h. m. s.	s	μ	μ	
May 5	0	10 06 26				Distance 8430 km.
	eP_E	10 18 10	4			No definite L phase or M
	S_E	10 27 52	6	10		on N-S component.
	S_N	10 27 52			15*	
	eSR_{1N}	10 32 49	10		13	
	e_N	10 38 03			19*	
	L_E	10 41 41	30	87		
	M_E	10 44 56	25	64		
	F_E	11 36				
	F_N	11 17				
5	0	23 21 21				Distance 8400 km.
	eP_E	23 33 03	3	7		Practically no L phase on
	iS	23 42 43		17*	22*	N-S component. Well-marked
	e_N	23 52 43	30		43	L phase on E-W component.
	L_E	23 56 03	27	50		
	M_E	23 59 48	29	115		
	M_N	23 53	30		38	
6	e_N	0 05 23	18		16	
	F_E	0 34				
	F_N	0 39				
15	e_E	12 21 38	5	9		e_E of approximately same
	eL_E	12 41 58	25	33		period as microseisms.
	M_E	12 44	20	23		
	e_N	12 42 56	slight irregularity.			
	F_E	13 00				
	F_N	12 45				
19	0	5 24				
	iP	5 43 31	9	19	11	P and L phases are well de-
	e_E	6 06 24	slight irregularity.			fined on both components,
	iL	6 35 57	20		19	especially on E-W. Bureau
	M_E	6 41	20	31		central seismologique de
	M_N	6 41 15	17		22	Strasbourg locates epicenter
	F_E	7 35				in 31° S, 57° E., with a mean
	F_N	8 00				time of origin 5h. 24 m. 11s.
						This record believed admiss-
						able for time curves. Dis-
						tance 16390 km.
20	e_E	11 22 00	15	12		Except e_N at 11-28-57
	e_E	11 29 40		10*		phases are all definite. But
	e_E	11 33 57	20			they did not seem to fit any
	M_E	11 34 42	20	21		scheme for distance.
	e_N	11 28 57	slight irregularity.			
	e_N	11 31 07				
	M_N	11 31 15	11		7	
	F_E	12 34				
	F_N	12 41				

* indicates trace amplitude in one-tenth millimeters.

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory, Honolulu (Ewa.) (Cont'd.)

Date	Phase	G.M.T.	Period	Amplitude E	Amplitude N	Remarks.
1925		h. m. s.	s	μ	μ	
May 20	e_E	23 13 22	15	7		
	e_E	23 20 25				
	M_E	23 24 30	15	8		
	e_N	23 12 55	15			
	M_N	23 13 15	20		15	
	F_E	23 31				
	F_N	23 24				
22	0	(9 42 14)				Distance 5000 km.
	iS_E	9 57 24	10	8		Interpretation doubtful because beginning of L phase very indefinite on both components, especially on N-S.
	eL_E	10 05 23	10			
	M_E	10 11	17	25		
	eL_N	10 04 13			6*	
	M_N	10 09 55	20		23	
	F_E	10 56				
	F_N	10 35				
23	0	(2 09 55)				Distance 6200 km.
	S_E	2 27 24	3	4		Interpretation doubtful.
	e_E	2 29 13	6	7		Period of S_E and S_N approximately equal to periods of microseisms.
	S_N	2 28 08	3		6	
	e_N	2 34 33	20		12	
	eL_E	2 37 33	15			
	M_E	2 38 43	10	13		
	eL_N	2 37 02	13			
	M_N	2 40 05	10		12	
	F_E	3 25				
	F_N	2 55				
June 3	0	4 34 23				Distance 8180 km.
	iP	4 45 53	2	13	7	
	eS_E	4 55 22	10	28		
	eS_N	4 55 29	10		14	
	eL_E	5 08 29	35	177		
	M_E	5 16 53	21	128		
	eL_N	5 05 29	40			
	M_N	5 05 53	40		83	
	F_E	7 14				
	F_N	6 18				
June 4	e_E	1 27 35	10	18		
	e_N	1 27 28	9		14	
	F	2 00				
4	eL_E	12 16 52	16	20		Earlier phases apparently lost in the heavy microseisms.
	M_E	12 21 53	5	63		
	eL_N	12 16 48	20			
	M_N	12 18 53	10		67	
	F_E	14 10				
	F_N	14 19				
6	e_E	9 14 54	15	10		
	e_N	9 17 50	slight irregularity			
	F	9 19				

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory, Honolulu (Ewa.) Cont'd.

Date	Phase	G. M. T.	Period	Amplitude E	Amplitude N	Remarks
1925.		h. m. s.	s	μ	μ	
June 7	0	23 42 45				Distance 8200 km.
	eP_E	23 54 17	slight			
8	eS_E	0 03 47	10	6		
	ePS_E ?	0 04 54		15		
	e_N	0 04 19	slight irregularity			
	eL_E	0 19 39	20	10		
	M_E	0 05 07	14	15		
	F_E	0 47				
9	0	13 40 49		—		Distance 7390 km.
	iP	13 51 38	2	6	10	
	e_E	13 56 30	10	14		
	e_E	13 57 13	12	11		
	e_N	13 53 58	10		8	
	e_N	13 56 43	-		10*	
	S	14 00 27	5	24	15	
	eSR_{1E}	14 04 49	10	16		
	eSR_{2E}	14 07 18	7	8		
	e_N	14 03 08			18*	
	e_N	14 04 42			13*	
	eSR_{1N}	14 05 12	10		10	
	eSR_{2N}	14 07 40	18		27	
	eL_E	14 11 51	24	81		
	M_E	14 21	18	124		
	F_E	14 32 18				
	L_N	14 12 10	12		19	
	eL_N	14 13 09	20		17	
	M_N	14 14 28	17		41	
	F	16 00				
9	eL_E	19 25 06	19	9		Phases apparently marked by microseisms on N-S
	F_E	19 35				
11	0	(15 55 07)				Distance 8160 km.
	eP_E ?	16 06 36	3	2		Interpretation doubtful.
	eS_E ?	16 16 04	6	3		eP_E may be a heavy microseism.
	eS_N ?	16 16 29	6		4	
	eL_E	16 28 42	20	10		
	M_E	16 34 52	15	12		
	eL_N	16 33 54	16		4	
	F_E	17 06				
	F_N	Lost in microseisms.				
12	0	10 58 47				Distance 7600 km.
	eP_E	11 09 47	10	6		
	eP_N	11 09 32	9		2	No well-defined L phase on N-S and no definite maximum on either phase.
	eS_E	11 18 32	10	8		
	eS_N	11 18 39	9		5	
	eL_E	11 29 12	30	39		
	F	12 11				
18	eL_E	0 22 29	60	20		
	eL_N	0 22 53	50		30	
	M_E	0 35	20	10		
	M_N	0 35 35	22		12	
	F	0 38				

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory, Honolulu (Ewa.) (Cont'd.)

Date	Phase	G. M. T.	Period	Amplitude E	Amplitude N	Remarks
1925		h. m. s.	s	μ	μ	
June 19	0	7 49 48				
	iP	7 57 48	4			Distance 4590 km.
	ePR_{1E}	7 59 15				
	ePR_{1N}	7 59 33			7*	No well-marked L phase on N-S
	iS	8 04 08	8		7	
	eSR_{1E}	8 06 58	13	25		
	eSR_{2E}	8 08 17	9			
	eSR_{1N}	8 07 08	18		15	
	eSR_{2N}	8 08 12	13		12	
	M_E	8 08 48	9	20		
	eL_E	8 09 04	12	19		
	M_N	8 10 27	12		19	
	F_E	9 12				
	F_N	9 29				
24	e_E	5 54 28	20	8		
	e_N	5 58 18	20		10	
	F	6 13				
28	0	1 20 55				Distance 5040 km.
	iP	1 29 26	10	10	10	
	i_E	1 30 30				
	ePR_{1E}	1 31 15				
	e_E	1 34 08				
	P_N	1 29 26				
	e_N	1 30 16	10			
	ePR_{1N}	1 31 22	10			
	S_N	1 35 06				
	iS_E	1 36 10				
	i_E	1 37 10	6			
	e_E	1 37 27	11			
	SR_{1E}	1 39 37				
	SR_{2E}	1 41 02				
	iS_N	1 36 22				
	SR_{1N}	1 39 43		16		
	SR_{2N}	1 41 41 ?	11			
	L_E	1 43 17	10			
	L_E	1 43 49	10			
	M_E	1 47 47	10	71		
	eL_N	1 43 35				
	M_N	1 44 42	10		83	
	F	4 10				
29	0	14 41 20				Distance 4370 km.
	P_E	14 49 05				e_E may be S
	iP_4P_E ?	14 51 00				SR_{1N} has characteristics
	P_4P_N ?	14 51 08				of L phase.
	e_E	14 54 40				
	S	14 55 13				
	SR_{1E}	14 57 22				
	SR_{1N}	14 57 13	20			
	iSR_{2E}	14 57 44	15	24		
	eL_E	14 59 30	10			
	M_E	15 00 49	10	119		
	M_N	15 00 02	10		245	
	C_E	15 06				

Table II. Instrumental Reports, April 1, 1925 to June 30, 1925.

HAWAII. C. and G. Survey Magnetic Observatory, Honolulu (Ewa.) (Cont'd.)

Date	Phase	G. M. T.	Period	Amplitude E	Amplitude N	Remarks
1925		h. m. s.	s	μ	μ	
June 29	C_N	15 04	9			
	F	18 10				
30	e_E	4 00 44	10	9		
	e_N	4 00 51			8*	
	F	4 17				