

DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey



Preliminary Earthquake Report of the Seismological Station at

HONOLULU, T. H.

Geophysics Library

Instruments: Milne-Shaw. T - 12 s. V - 150. Damping, nearly critical.
See quarterly reports of the C. and G. Survey for other constants.

1929 Date	Phase	Time h. m. s.	Period s.	Trace Amplitude		Remarks
				E	N	
				In 1/10 mm		
Jan. 13	iPEN	0 11 32				LN waves lost in SR waves.
	iSE	0 18 17				
	iSN	0 18 17				
	iSR ₁ N	0 22 29				
	eL _q E	0 23.2				
	M ₁ E	0 28 28	10	486		
	M ₁ N	0 24 50	34, 12		315	
	F	3.1				
Jan. 16	eLE	8 45.0				Practically nothing on NS.
	eLE	8 51 30	18	7		
	F	8 59				
Jan. 17	eLrE	12 48.3	17	8		Nothing apparent on NS.
	F	12 54				
Jan. 21	eLE	5 40.0	20	3		
	eLN	5 40.0	20		4	
	F	5 45.0				
Jan. 21	e _N	10 41.2				
	eS _{EN}	10 45 50				
	L _q E	10 49.0	16			
	M ₁ E	10 52.4	11	20		
	eLr _N	10 52.0	19			
	M ₁ N	10 56	20		29	
	F	11 22				
Jan. 24	ePE	20 47.5				Maximum occurs on First iL wave.
	S _E	20 56.0	16			
	S _N	20 56.0	13		64	
	L _q E	21 03.7	16	30		
	iL _q N	21 03 40	16		100	
	F	22 15				

(signed) J. H. Peters,
In Charge.

Honolulu, T.H.,
January 5, 1929.



DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey.

Preliminary Earthquake Report of the Seismological Station at
HONOLULU, T. H.

Instruments: Milne-Shaw. T - 12 s. V - 150. Damping about 20:1

See quarterly seismological reports of the C. and G. Survey for other constants.

Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Feb. 1	iS ₆ P ₆ S _N ? SR _{1E} LqE F	17 39 54 17 47.8 17 58 20 18.6				
Feb. 2	PR _{1E} eE SR _{1E} eLqN eLrE F	0 22.7 0 23.6 0 39 50 0 55.5 1 00.8 2.7	40 60 50	16	11	
Feb. 5	PeN M _E M _N F	12 55 38 12 57 12 57 13 00	10? 2	40	36	Felt in Mauna Loa section of Honolulu.
Feb. 6	eL _N F	3 04.2 3.3	18	3		Nothing on EW.
Feb. 6	eE LE? F	7 04.2 7 08.4 7.3	10?	4		
Feb. 10	eE? iSEN iLqE LrN F	15 50.2 15 58 28 16 16.0 16 09.1 17.0	13 23 20	15 17	13	
Feb. 15	eS, LE? LE F	8 35.3? 8 43.2 8.9	12	5		
Feb. 16	LrE M _{1E} F	20 01.0 20 03 20.9	29 22	24		Practically nothing on NS

Honolulu.- February, 1929.

		h. m. s.	s.		
Feb. 22	S _c P _c S _E	21 06 50	18		
	PS _E	21 16 22	13		
	SR ₁ E	21 16 30	18		
	L _Q N	21 26.7	50		5
	L _N	21 41.3	20		16
	eLE	21 39.5	20	15	
	F	22.6			
Feb. 26	eS _{EN}	9 12.9			
	e _N	9 15.0	10		
	L _{QE}	9 14.7	20		
	M ₁ E	9 15.8	10	75	
	L ₁ N	9 15.9	30		
	M ₁ N	9 18	20		50
	F	10.5			

(Signed) J. H. Peters,
In Charge.

Honolulu, T.H.
March 6, 1929.



DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey

Preliminary Earthquake Report of the Seismological Station at
HONOLULU, T. H.

Instruments: Milne-Shaw. T - 12 s. V - 150. Damping about 20:1
See quarterly seismological reports of the C. and G. Survey for other constants.

Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Mar. 1	e _N	7 47.4	10		30	
	eL _{1E}	7 46 44				
	M _{1E}	7 50 04	6	35		
	iL _{1N}	7 50 02				
	M _{1N}	7 50 22	8		40	
	F	8 20				
Mar. 1	e _N	9 09.1				
	e _E	9 09.1				
	M _{1N}	9 09 59	6		18	
	F	9 19				
Mar. 2	i _N	20 54 37				
	i _E	20 54 25				
	L _{1N}	20 55 07				
	M _{1N}	20 55 25	2		40	
	L _{1E}	20 55 24				
	M _{1E}	20 55 33	2	45		
	F	20 59				
Mar. 7	iP _N	1 41 00				Amplitude so large and record so long that overlap makes reading nearly impossible.
	iP _E	1 41 02	7	50		
	iPR _{1E}	1 42 00				
	iS _E	1 46 02	10	110		
	iL _{1N}	1 49 40				
	M _{1N}	1 53.3			88	
	iL _{1E}	1 47 48				
	M _{1E}	1 49.2	10	?		
	F	6.6				
Mar. 9	?e _E	2 29.0				
	eL _{1E}	2 36.8				
	M _{1E}	2 42.5	16	19		
	e _N	2 37.3				
	M _{1N}	2 40.8	20		10	
	F	2 56				

Honolulu - March, 1929.

		h. m. s.	s.			
Mar. 9	e _N	11 11.2				
	e _E	11 12.0				
	e _E	11 15 25				
	e(S) _N	11 16 52	16		15	
	eL _{1N}	11 21 45				
	M _{1N}	11 26.3	23		80	
	e _E	11 28 20				
	e _E	11 21 20				
	L _{1E}	11 23 24				
	M _{1E}	11 26.5	20	40		
	F	12 45				
	Mar. 19	eS _E	21 12 43	13	9	No activity on NS component.
?e _E		21 18.3				
L _{1E}		21 23.7				
M _{1E}		21 24.1	20	10		
F		21 33				
Mar. 21	?e _E	2 56.3	10	15	No activity on NS component.	
	eL _E	3 07.0	20	12		
	F	3 18				
Mar. 31	e _N	5 52.6				
	e _E	5 55.6				
	eL _{1N}	5 55 34				
	M _{1N}	5 56.5	11		15	
	M _{1E}	5 56.2	10	7		
	F	6 02				
Mar. 31	e _N	20 41.9			No activity on EW.	
	eL _{1N}	20 42.7				
	M _{1N}	20 44.2	10			10
	F	20 49				

Washington, D. C.,
June 13, 1929.



DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey

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Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Apr. 8	ePE	10 31				Only faint trace on NS.
	iSEN	10 36 56				
	M _E	10 36 59	8	3		
	M _N	10 41 30				
	F	10 50				
Apr. 26	iPS _{EN}	3 00 40				Local shock; felt by residents near observatory

(Signed) J. H. Peters,
Officer in Charge.

Honolulu, T. H.,
May 6, 1929.

SITKA, Alaska.

No earthquakes were recorded in April, 1929.



DEPARTMENT OF COMMERCE
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Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
May 1	eSR ₁ N	16 13.0	20		8	
	eSR ₁ E	16 12 30	19	10		
	eL ₁ N	16 23.5	20		10	
	eL ₁ E	16 21.0	12	10		
	eL ₁ PN	16 31.0				
	M ₁ N	16 37.7	17		42	
	eL ₁ E	16 28.0	20			
	M ₁ E	16 33.5	19	45		
	M ₂ N	16 41.3	20		46	
	F	17 31				
May 2	L ₁ EN	14 52	20			
	M ₁ EN	14 55	20	10	10	
	F ₁ EN	15 00				
May 3	iPS ₁ EN	22 03 22				Slight local.
	F ₁ EN	22 05				
May 7	e ₁ N	16 55 25				
	L ₁ E	17 08 --	25	10		
	F ₁ E	17 25				
May 18	e ₁ N	7 39.5	25		5	No activity on EW.
	e ₁ N	7 45.0	18		7	
	F	7 50				
May 20	eP ₁ EN	5 00 30				
	eS ₁ N	5 04 57	9		20	
	eS ₁ E	5 05 00	10	20		
	L ₁ EN	5 06 30	12			
	M ₁ N	5 10 20	10		120	
	M ₁ E	5 11 30	10	200		
	F ₁ EN	6 30				

Honolulu - May, 1929.

		h. m. s.	s.		
May 21	S _{EN}	16 54 30		20	20
	eSR _{1EN}	16 59 00			
	eL _{EN}	17 02 00	25,20	20	30
	e _{EN}	17 06 00	25,20	30	20
	M _{EN}	17 07 00	25,22	30	30
	F _{EN}	17 45			
May 26	ePR _{1EN}	22 47 18	7	13	
	e _N	22 48 54	7		28
	e _E	22 49 24	10	23	
	SR _{1EN}	22 53 19	11	27	
	iL _{EN}	22 55 42			
	M _{1EN}	23 00.8	8	850	
	F	2 30			
May 30	PS _E	10 10 20	7	6	
	eL _N	10 26.3	20		5
	eL _E	10 30.5	17	5	
	F	11 16			

(Signed) J. H. Peters,
Officer in Charge.

Honolulu, T. H.,
June 6, 1929.

DEPARTMENT OF COMMERCE
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Preliminary Earthquake Report of the Seismological Station at

HONOLULU, T. H.

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Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
June 2	iP _{EN}	21 47 55		20	10	
	iS _{EN}	21 55 32	10	20	20	
	L _{1EN}	22 02 30	20			
	M _{1N}	22 05 40	11		20	
	F _{EN}	22 30				
June 4	iP _{EN}	15 36 23	7	40	20	First motion on E downward, indicating Eastward motion of the ground. First motion on N downward, indicating Northward motion of the ground.
	iS _{EN} ?	15 36 46	9	30	20	
	M _{1EN}	15 36 30	8	40	30	
	F _{EN}	15 55				
June 9	eS _E	9 23 30	15	30		
	eS _N	9 23 34	10		20	
	L _N	9 29 40	25		20	
	L _E	9 29 45	25	20		
	F _{EN}	10 30				
June 12	eP _E	11 53 17		10		
	eP _N	11 53 21				
	iS _E	12 02 19	10	10		
	iS _N	12 02 32	10		10	
	L _{1N}	12 10 30	15			
	L _{1E}	12 12 00	15			
	M _{1E}	12 02 15	15	10		
	M _{1N}	12 10 40	15		20	
	F _{EN}	12 30				
June 13	eP _E	0 21 06	6	5		Finish lost in following shock.
	PR _{1E}	0 23 08	9	5		
	PR _{2E}	0 23 40	7	6		
	S _E	0 27 48	13	25		
	iS _N	0 27 52	14		26	
	eSR _{1N}	0 29 30	13		25	
	SR _{1E}	0 29 50	10	14		
	eSR _{2N}	0 31 40	14		15	
	L _{1E}	0 33.6				
	L _{1N}	0 33 50	26			

1929		h. m. s.	s.			
June 13	PR ₁ N	0 36 33	10		25	
	iS _E	0 41 20	13	55		
	iS _N	0 41 30	15		50	
	SR ₁ E	0 45 00	13	39		
	eSR ₂ N	0 46 04	11		24	
	L ₁ E	0 47.8				
	M ₁ E	0 49.4	13	70		
	L ₁ N	0 47 34				
	M ₁ N	0 49.5	11		85	
F	3.0					
June 13	iP _E	9 36 14	5	20		
	iP _N	9 36 23	5		20	
	iS _N	9 45 40	10		40	
	iS _E	9 45 43	10	120		
	P _S E	9 46 10	12	70		
	P _S N	9 46 15	10		60	
	L ₁ N	9 55 00	35		40	
	L ₁ E	9 58 20	40	40		
	M ₁ E	9 46 10	10	120		
	M ₁ N	9 46 20	10			
	M ₂ N	9 56 00	28		40	
	M ₂ E	10 01 15	23	80		
	F _E N	11 30				
June 15	e _E	0 57 00	12	9		
	e _N	0 57 00	11		5	
	F	1 01.0				
June 16	iP _E N	22 58 30		20	40	First motion on E upward, indicating Westward motion of the ground. First motion on N upward, indicating southward motion of the ground.
	iS _N	23 08 00	13		40	
	iS _E	23 08 10	11	90		
	L ₁ E	23 18 00	15			
	L ₁ N	23 20 00	25			
	M ₁ E	23 22 20	14	140		
	M ₁ N	23 23 15	15		220	
June 17	F _E N	2 00				
June 18	e _E	19 13 32				Local; very short period.
	e _N	19 13 40				
	L ₁ E	19 14 24				
	M ₁ E	19 14 50	?	15		
	L ₁ N	19 14 33				
	M ₁ N	19 14 55			14	
	F	19 17.0				
June 18	iP _E N	20 02 50				Local shock; not reported as felt.
	M ₁ N	20 04 00		120		
		(continued)				

1929		h. m. s.	s.		
June 18		(continued)			
	M _{1E}	20 04 35		160	
	F _{EN}	20 11			
June 19	e _E	7 43 10	8	6	
	eS _E ?	7 51 16	8	9	
	S _N ?	7 51 53	12		5
	?e _N	8 04.0	10		4
	eL _{1E} ?	8 04.5	20	5	
	F	8 48			
June 22	e _E	15 51 06	10	5	
	?e _N	15 51.0			
	e _E	15 55.2	6	5	
	?e _E	15 59.0			
	eL _{1E}	16 02.9			
	M _E	16 06.6	12	5	
	eL _{1N}	16 02.9			
	M _{1N}	16 05.0	20		9
	F	16 25			
June 25	e _N	9 43.0			EW record lost.
	eL _{1N}	9 45.0			
	M _{1N}	9 47.8	7		10
	F	9 56			
June 26	?e _E	6 42 24			
	?e _N	6 45.5			
	i _E	6 46 00	10	10	
	e _N	6 46.9	10		4
	eL _{1E}	6 48.0			
	M _{1E}	6 48.7	10	15	
	eL _{1N}	6 48 20			
	M _{1N}	6 48 36	10		12
	F	7 33			
June 27	P _E	13 06 19	7	15	
	P _N	13 06 23	5		15
	PR _{1E} ?	13 08 30	8	25	
	iPR _{1N} ?	13 08 37	7		59
	PR _{2E} ?	13 09 55	12	24	
	iPR _{2N} ?	13 09 43	16		57
	?SR _{1N}	13 15.9	13		25
	?SR _{2N}	13 18 47	10		32
	eL _{1E}	13 41.0	60	10	
	L _{1N}	13 46.8			
	M _{1N}	13 50.0	20		121
	eL _{2E}	13 47.0			
	M _{2E}	13 54.1	18	35	
		(continued)			

From 13^h 13^m to 13^h 47^m the NS record seems to smooth out. Having nearly the same amplitude over the whole period phases are difficult to determine. The first and also the L phases of the shock are distinct. The EW record is marked throughout for uniformity of amplitude and weak phase definition.

Honolulu - June, 1929.

1929		h. m. s.	s.		
June 27		(continued)			
	L ₂ N	13 53.4			
	M ₂ N	13 55.1	18		148
	L ₃ N	13 59.3			
	M ₃ N	14 01.9	18		105
	M ₃ E	14 08.8	17	50	
	F _E	15 47			
	F _N	16.1			
June 30	e _E	3 05 45	9	10	
	e _N	3 06.0	14		5
	e _N	3 12.8	10		6
	e _E	3 18.5	30	5	
	e _N	3 24.0	18		7
	e _E	3 25.1	18	5	
	e _E	3 34.0	18	6	
	e _N	3 39.4	13		5
	F	4 00			

Honolulu, T. H.,
July 8, 1929.

(Signed) J. H. Peters
Officer in Charge.



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Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
July 4	eE	4 47.0	10	6		
	eN	4 51.0	21		6	
	F	5 14				
July 5	ePEN	14 25 40				
	iSEN	14 31 10	12		50	
	L ₁ E	14 33 00	15	20		
	L ₁ N	14 33 20	13		40	
	M ₁ E	14 51 30	11	250		
	M ₁ N	14 53 30	20		390	
	F	17 30				
July 5	ePEN	22 43				
	iSE	22 48 10	15	30		
	iSN	22 48 21				
	L ₁ EN	22 51 00	11	60	30	
	M ₁ N	22 53 45	18		160	
	M ₁ E	22 54 10	19	110		
	F	25 00				
July 6	ePEN	2 10				
	eSE	2 15 40	10	10		
	eSN	2 15 50	11		10	
	L ₁ E	2 18 00	11	30		
	L ₁ N	2 18 00	10		20	
	eEN	2 20 00	10	130	50	
	M ₁ EN	2 21 30	10		150	
	F	4 30				
July 7	eE	6 31 20				
	eN	6 33.0	18		3	
	F	6 40				
July 7	eEN	9 42.3				
	M ₁ E	9 42.6	12	9		
	M ₂ E	9 44.8	9	10		
	eLN?	9 44.4				
	M ₁ N	9 45.0	10		10	
	F	9 52				

1929		h. m. s.	s.		
July 7	iPE	21 29 58		20	
	iPN	21 29 58			40
	iSE	21 35 20	11	80	
	iSN	21 35 20	13		180
	L ₁ E	21 37 00	12		
	L ₁ N	21 37 15	12		
	M ₁ E	21 38 30	10	900	
	M ₁ N	21 41 30	10		830
F	25 30				
July 8	eE	2 19.0	10	14	
	eN	2 20.0	20		10
	F	2 27			
July 8	L ₁ E	19 22 50	12		
	L ₁ N	19 22 55	12		
	M ₁ N	19 24 00	10		20
	M ₁ E	19 24 15	10	40	
	F	20 30			
July 9	eE	8 53.0	9	6	
	eN	8 54.0	8		6
	F	9 00			
July 11	L ₁ E	21 11 07			
	L ₁ N	21 12 40			
	M ₁ EN	21 15	10	30	30
	F	21 45			
July 13	iE	15 08 36	10	10	
	eN	15 15.4			
	eL ₁ E	15 18.4			
	M ₁ E	15 19.5	25	10	
	eL ₁ N	15 19.0			
	M ₁ N	15 20.0	20		10
	F	15 35			
July 14	eL ₁ E	9 30.2			
	M ₁ E	9 31.5	10	6	
	eL ₁ N	9 31.0			
	M ₁ N	9 31 50	10		10
	*F	9 45			
July 14	iPN	9 45 18			
	iPE	9 45 20			
	iSE	9 52 00		20	
	iSN	9 52 02	11		40
	L ₁ EN	9 55 --	15		
	M ₁ N	9 57 20	11		60
	M ₁ E	9 58 36	10	60	
	F	11.1			

*Probably overlaps beginning of next quake.

Honolulu - July, 1929.

- 3 -



1929		h. m. s.	s.		
July 17	eP _{EN}	8 44 57			
	iS _{EN}	8 50 20	10	10	20
	L _{1E}	8 52 00	13		
	L _{1N}	8 52 30	12		
	M _{1E}	8 53 35	18	60	
	M _{1N}	8 56 45	18		70
	F	10.6			
July 21	eE	6 15.0	8	3	
	eN	6 15.0	12		3
	F	6 32			
July 21	eE	10 23 20	11	6	
	eN	10 23 45	10		10
	F	10 50			

Honolulu, T.H.
August 15, 1929.

(Signed) J. H. Peters,
In Charge.

DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey

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Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Aug. 3	iP _N	12 57 10				
	S _N	13 03 15				
	L _{1N}	13 06 30				
	M _{1N}	13 09 --	18		10	
	F	13 20				
Aug. 3	e _N	15 13 27	7		1	E out of adjustment.
	e _N	15 17.5	10		5	
	eL _{1N}	15 22.7				
	M _{1N}	15 23.1	11		12	
	F	16 05				
Aug. 3	?e _N	19 58 08				
	L _{1N}	19 00 20				
	L _{1E}	19 00 00				
	M _{1EN}	19 01 40	12	40	20	
	F	20 30				
Aug. 4	e _N	22 40.1	8		1	
	L _{1EN}	22 53 --				
	M _{1N}	22 57 --	20		10	
	M _{1E}	22 58 --	11	10		
	F	23 40				
Aug. 8	e _E	13 21 27	6	1		
	e _E	13 27 32	6	2		
	eL _{1EN}	13 38.1				
	M _{1E}	13 49.0	20	5		
	M _{1N}	13 47.0	20		4	
	F	14 16				
Aug. 14	L _{1E}	14 52 40				
	L _{1N}	14 53 00				
	M _{1E}	14 55 10	8	20		
	M _{1N}	14 55 15	8		20	
	F	16 00				

Honolulu - August, 1929.

- 2 -

1929		h. m. s.	s.			
Aug. 14	L ₁ N	19 17 30				
	L ₁ E	19 17 40				
	M ₁ E	19 20 15	8	30		
	M ₁ E	19 20 20	8		20	
	F	20 30				
Aug. 15	iS _N	20 17 40	9		8	
	iS _E	20 17 47	10	3		
	eL ₁ E	20 29.0				
	M ₁ E	20 35.3	8	10		
	eL ₁ N	20 28.0				
	M ₁ N	20 22.7	7		7	
	F	21.5				
Aug. 18	eL ₁ E?	0 07.0			Preliminary phases lost by changing records.	
	M ₁ E	0 10.6	10	10		
	eL ₁ N	0 06.7				
	M ₁ N	0 08.3	10			9
	F	1 24				
Aug. 18	L ₁ EN	8 58 00				
	M ₁ E	8 59 30	13	20		
	M ₁ N	9 01 25	11		30	
	F	9 45				
Aug. 19	eP _E	2 54 45				
	iS _E	3 03 55				
	iS _N	3 04 00				
	L ₁ N	3 13 --				
	L ₁ E	3 18 --				
	M ₁ N	3 14 --	30		10	
	M ₁ E	3 20 --	21	20		
F	3 55					
Aug. 28	iS _E	19 08 27				
	M ₁ E	19 08 40	13	20		
	F	20 30				

Honolulu, T. H.
September 9, 1929.

(Signed) J. H. Peters,
Officer in Charge.



DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey

Preliminary Earthquake Report of the Seismological Station at
HONOLULU, T. H.

Instruments: Milne-Shaw. T - 12 s. V - 150. Damping about 20:1
See quarterly seismological reports of the C. and G. Survey for the other constants.

Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Sept. 1	?eE	16 10 42				
	eE	16 11 17	12	4		
	eN	16 11 26	10		5	
	eE	16 17 20	10	3		
	eN	16 17 20	10			5
	F	16 40				
Sept. 2	eE	11 23 45	11	4		
	?eN	11 34.0				
	eSE	11 33 48	10	8		
	eN	11 48 22	14		5	
	eL ₁ E	11 46.0				
	M ₁ E	11 48.0	25	5		
	eN	11 55.6				
	M ₁ N	11 56.9	20			5
	F	12 25				
Sept. 17	ePN	19 24 40	8		5	E component not operating at this time as a result of blasting nearby.
	ePR _N	19 26 00	6		12	
	eN	19 29 21	6		13	
	?eSN	19 30 37				
	eN	19 32 27	15		350	
	iL ₁ N	19 33 40				
	M ₁ N	19 37.0	10		350	
	F _N	23				
Sept. 23	ePEN	5 04 00				The following shocks with origin in the volcano district on Hawaii Id. were recorded. The period is short, between 1 and 2 seconds, and only the "P" phase is definitely distinguishable.
	M _N	5 04 30			10	
	M _E	5 05 00		10		
	F	5 06.5				
Sept. 23	ePEN	7 58 00				
	M _N	7 59 00			20	
	M _E	7 59 15		20		
	F	8 05				

1929		h. m. s.	s.		
Sept. 24	ePEN	18 14 40			
	MN	18 15 40			30
	ME	18 16 00		40	
	F	18 18.5			
Sept. 25	ePEN	0 20 30			
	MN	0 21 35			50
	ME	0 21 40		60	
	F	0 26			
Sept. 26	iPN	4 51 30			
	iPE	4 51 32			
	MEN	4 53 00		910	770
	F	6 18?			
Sept. 26	ePEN	20 53 00			
	MN	20 53 50			20
	ME	20 54 15		30	
	F	20 56.5			
Sept. 28	iPEN	8 49 50			
	ME	8 50 45		40	
	MN	8 50 55			30
	iPEN	8 57 25			
	MEN	8 58 30			
	F	8 59.0			
Sept. 28	iPE?	8 57 35	1	20	
	F	9 00.2			
Sept. 28	iPE	9 15 30			
	iPN	9 15 38			
	MW	9 16 30			40
	ME	9 16 35		50	
	F	9 20.5			
Sept. 28	iPEN	17 40 15			
	MEN	17 41 40		150	140
	F	17 48.0			
Sept. 29	ePEN	1 47 35			
	MEN	1 49 00		120	140
	F	1 55			
Sept. 29	ePEN	4 16 10			
	MEN	4 17 40		70	110
	F	4 21.0			

Felt extensively in Honolulu, intensity 2. F is uncertain owing to changing of traces.

Honolulu - September, 1929.

- 3 -

1929		h. m. s.	s.		
Sept. 29	eP _{EN}	16 01 15		60	60
	M _{EN}	16 02 30			
	F	16 07.0			
Sept. 30	iP _{EN}	9 19 00		50	50
	M _{EN}	9 20 00			
	F	9 23.0			
Sept. 30	eP _{EN}	22 24 10		70	80
	M _{EN}	22 25 30			
	F	22 30.0			

Honolulu, T. H.,
October 9, 1929.

J. H. Peters,
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Preliminary Earthquake Report of the Seismological Station at

HONOLULU, T. H.

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Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Oct. 2	e _N	10 53 02				
	e _E	10 53 20	5	8		
	eL ₁ E	10 55.0				
	M ₁ E	10 56 10	7	10		
	eL ₁ N	10 55 31				
	M ₁ N	10 55 45	6		10	
	F	10 59.5				
Oct. 3	e _E	5 07 40	1	1		
	e _E	5 08 06	6	5		
	eL ₁ N	5 08 43				
	M ₁ N	5 09 05	2		20	
	iL ₁ E	5 08 34				
	M ₁ E	5 08 56	2	20		
	F	5 13				
Oct. 3	iP _N	20 12 43	1		11	
	eL ₁ E	20 12 49				
	M ₁ E	20 13 40	2	20		
	iL ₁ N	20 12 56				
	M ₁ N	20 13 00	1		17	
	F	20 15.6				
Oct. 5	eP _N ?	17 07 56	7		9	
	S _N	17 14 50	7		17	
	eL ₁ E	17 20.0				
	M ₁ E	17 24.3	9	10		
	L ₁ N	17 20 55				
	M ₁ N	17 24.5	18		15	
	F	17 40				
Oct. 6	eL ₁ E	6 16 46				
	eL ₁ N	6 18.1				
	M ₁ N	6 19.7	6		18	
	F	6 33				

Honolulu - October, 1929.

- 2 -

1929		h. m. s.	s.			
Oct. 6	i _N i _E	7 52 13 7 52 13			Both components dismantled by this shock.	
Oct. 7	e _E e _N F	15 25.9 15 30.0 15 35				
Oct. 8	i _E ? e _E i _N L _{1E} M _{1E} iL _{1N} M _{1N} F	11 07 45 11 08 37 11 09 14 11 09 10 11 10 23 11 09 36 11 09 41 11 14.0		2 4 ? 1	6 15 50 25?	Local.
Oct. 8	i _{PN} i _{PE} e _{PR2N} ? i _{SE} i _{SN} i _N L _{1E} M _{1E} L _{1N} M _{1N} F	17 24 52 17 25 10 17 29 50 17 32 52 17 32 36 17 36 37 17 37 10 17 39.9 17 39 37 17 39 50 18.9		5 6 5 9 11 9 12 12 11	15 11 11 12 15 11 30 30	
Oct. 14	iL _{1E} M _{1E} iL _{1N} M _{1N} F	10 25 30 10 26.0 10 26 50 10 27 30 10 40		10 9	50 40	Record masked by heavy micro- seisms.
Oct. 15	? _{PN} ? _{PE} iL _{1E} M _{1E} iL _{1N} M _{1N} F	10 05 27 10 05 35 10 05 52 10 07.0 10 05 57 10 06 38 10 22		6 7	280 220	

Honolulu, T. H.

J. H. Peters,
Officer in Charge.

DEPARTMENT OF COMMERCE
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Preliminary Earthquake Report of the Seismological Station at
HONOLULU, T. H.

Instruments: N-S, Milne-Shaw T_0 - 12.0 s. V - 150 Damping: 20:1
E-W, " " T_0 - 12.0 s. V - 150 Damping: 20:1

See quarterly seismological reports of the C. and G. Survey for the other constants.

Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Nov. 9	eE	1 51 45				
	iE	1 53 35	10	28		
	eN	1 54 27	10		21	
	M ₁ E	1 55 50	10	51		
	M ₁ N	2 01 25	8		32	
	F	2 45				
Nov. 13	eL ₁ E	1 10 25				
	eL ₁ N	1 13 40				
	M ₁ E	1 14 --	20	13		
	F	1 30				
Nov. 15	iP _{EN}	19 00 35*				* Time uncertain within 5 ^s due to hourly time break.
	iS _{EN}	19 08 40	11	75	64	
	L ₁ N	19 15 30	20			
	L ₁ E	19 15 55	20			
	M ₁ E	19 20 15	20	190		
	M ₁ N	19 20 30	14		255	
	F	21 30				
Nov. 17	iP _E	3 54 55				
	iP _N	3 55 03				
	iS _N	4 04 40	10		50	
	iS _E	4 04 47	10	45		
	L ₁ E	4 17 00				
	L ₁ N	4 19 00				
	M ₁ E	4 18 30	26	68		
	M ₁ N	4 21 20	20		40	
	F	5 15				
Nov. 18	eP _N	20 44 25	4			
	eP _E	20 44 28	3			
	iS _E	20 54 50	15			
	iS _N	20 54 55	13			
	L ₁ EN	21 20				

(continued)

Honolulu - November, 1929.

1929		h. m. s.	s.		
Nov. 18		(continued)			
	M ₁ N	21 20 40	19		50
	M ₁ E	21 21 00	19	60	
	M ₂ E	21 24 00	19	50	
	M ₂ N	21 24 30	19		50
	M ₃ E	21 27 15	16	60	
	M ₃ N	21 27 15	19		60
	F	22.0			

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DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey

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Instruments: N-S, Milne-Shaw T_0 - 12.0 s. V - 150 Damping: 20:1
E-W, " " T_0 - 12.0 s. V - 150 Damping: 20:1
See quarterly seismological reports of the C. and G. Survey for other constants.

Date	Phase	Time	Period	Trace Amplitude		Remarks
				E	N	
1929		h. m. s.	s.	In 1/10 mm.		
Dec. 9	eE	7 48.0	18	6		
	F	7 54.0				
Dec. 16	eLN	11 50.9	12	23 31		
	eLE	11 52.9				
	MEN	11 53 15				
	F	11 58				
Dec. 17	iPEN	11 06 15	10	430 350		First motion on N upward, indicating southward motion of the ground; first motion on E downward, indicating eastward motion of the ground.
	iSEN	11 12 10				
	LE	11 15 00				
	LN	11 16 00				
	MEN	11 21 00				
	F	14 45				
Dec. 18	eN?	12 52 45	20	10		Faint. "E" trace lost in micros. Wave probably "L".
	F	12 54				
Dec. 31	eN?	5 13 00	14	18		Faint. "E" trace lost in micros.
	MN	5 14 30				
	F	5 15				

Honolulu, T. H.

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