

GIFT
NOV 11 1929



APIA OBSERVATORY. SAMOA.

SEISMOLOGICAL REPORT.

1929. January to March.

Lat. 13° 48' 23" S.

Long. 11h 27m 6s. W.

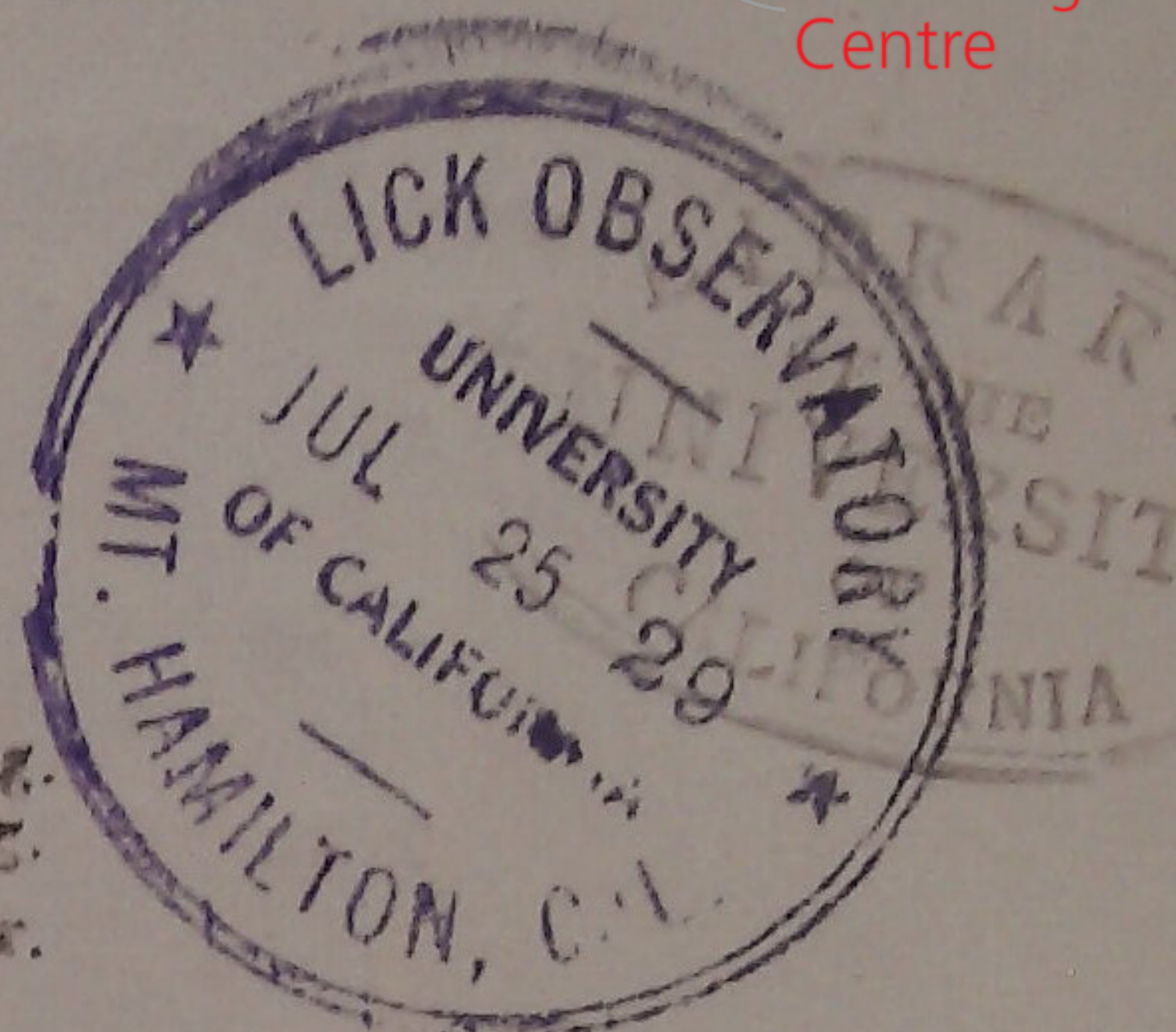
Instruments:

Wiechert Astatic Pendulum Seismometer. 1000 kg.

Wiechert Vertical Seismometer. 180 kg.

C. J. Westland. Seismologist.

A. Thomson. Director.



Cha Phase U T T Ae An Av

Jan.		h	m	s						
										microns.
										The horizontal seismograph was not working before Feb 9.
2	e	1	39	34						
	M	1	39	54					6	
9	M	0	10						3	
9	e	3	38	50						
	M	3	39	7	1				16	Felt in Apia, 2RF. Felt also in Pagopago.
14	M	18	43						5	
Feb										
2	e	2	8	14						
	M	2	17	30	20				10	
7	M	13	32							
9	e	18	22	12						
	M	18	22	42	1		50	2		Felt in Apia,, 2RF.
16	Ir	P	19	48	18					
		M	19	53	18	8	100			
20		i	21	5	18					
		M	21	6	40	1	180	40		Probably 2 shocks. Felt in Apia, 2RF
23		e	6	51	4					
		M	6	51	40	1	25	1		
26		c	9	30						
		F	9	50						

Cha	Phase	U	T	T	Ac	An	Av	
Mar				h m s				microns,
1		e		1 15 36				
		M		1 15 57	1	15	40	2
1	Iv	e		22 58 41				
		M		23 0 5	3	35	60	2
7	Iu	P		1 45 26				
		S		1 53 50				
		L		2 4 20				
		M		2 6 30	14	350		
		M		2 9	12	420	390	30
		F		3 30				
9	Ir	S		11 3 12				
		L		7 30				
		M		11 9	16	220		
		M		11 14	14	180	110	
		M		11 21	12	95		
		F		13				
12		M		20 27	1	17	50	20
14	Iv	e		22 16				
		M		22 21	10	25	16	
19	Iu	L		21 23				
21	Iu	L		3 17				Obscured by micros.
24		M		10 56 20	1	22	60	6

Distance 62 deg. O 10h 5m 1s
Near Aleutian Is.

Distance 34 deg. @ 10h 50m 32s
Arthurs Pass, New Zealand.

The results tabulated above include 3 small earthquakes known to have been felt in Samoa, and 7 other shocks which may have been felt by a few persons but have not been reported. There are also 23 movements too small to be felt, of which 3 occurred in January, 3 in February, and 17 in March.

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Cha Phase U T T As An Av

Month	Day	Phase	h	m	s	s	U	T	T	As	An	Av	Notes
May	18	e	1	21	37								microns
		M	1	22	0	1	40	95	12				
	20	Iu	S	5	12	40							Distance 67 deg. Near Aleutian Is.
			L	5	23	20							
	21	e	17	7									
		e	17	12									
		L	17	17									
	22	e	0	31									
		F	0	55									
	22	M	1	39		1	10	12	2				
	22	M	1	49		1	88	36	17				
	26	Iu	e	22	58	15							PR1 ?
			S	23	1	24							
				6	22								
				13	15								
				14	18	10							
				23	16	10	86						
			L	23	17	30	20	110					
June		e	18	25	7								Felt in Apia., 2 RF.
	10	M	18	25	35	1							
	13		11										Traces Not clear.
	16	Ir	P	22	53	51							New Zealand, O 22h 47m 40;
			e	57	8								171 E, 41½ S.
			S	59	16								
			e	59	46								
			M	23	4	18				190			
			M	23	9	16				240			
	24		M	6	37	14	1	30	2				Felt in Apia, 2 RF;
	26	e	21	19	5								
		M	21	19	38	1	140	25					Felt in Apia, 3 RF

Cha Phase U T, T Ac Am Av

June			h	m	s	s				microa.
27	Iu	P	19	5	51	I			I	
		e			11	53				
		S			16	40				
		L	13	37						
		M	13	51		20	250	90		Distance 90 deg. @ 12h 52m 35s.
		M	13	54		18	180	60		79 W. 40 S.
		F	14	30						
28	Iv	P	1	13	42					
		S			15	32				
		L			16	12				
		M			17	30				
		M	1	18	10	8	130	55		
		F			2					

The results tabulated above include 8 small earthquakes known to have been felt in Samoa, and 6 other shocks which may have been felt by a few persons but have not been reported. There are also 34 movements too small to be felt, of which 11 occurred in April, 14 in May, and 9 in June.

GIFT
MAY 23 1930



APIA OBSERVATORY. SAMOA.

SEISMOLOGICAL REPORT.
1929. July to September.

Lat. 13° 48' 26" S.

Long. 11h 27m G. W.

Instruments:

Wiechert Astatic Pendulum Seismometer.

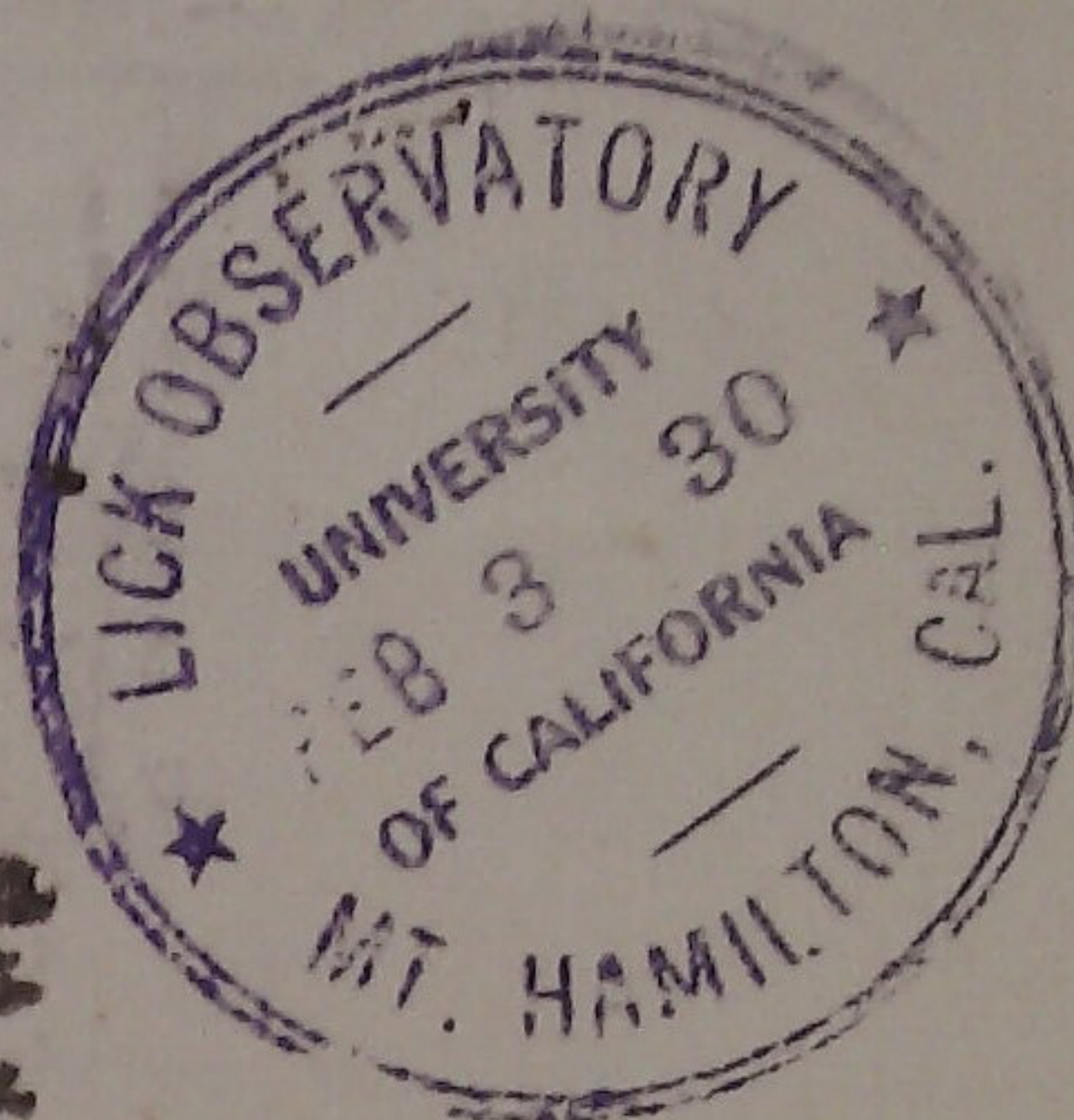
1000 kg

Wiechert Vertical Seismometer.

180 kg

C. J. Wortland. Seismologist.

A. Thomson. Director.



Cha Phase U T T As An Av

July	Phase	h	m	s	a	As	An	Av
5	Iv	c	14	24	20			
		S		88	30			
		L		50	40			
		M	14	55		18	50	
6	M	16	54	8	1	30	2	
7	Iu	P	21	34	2	1	13	1
		S		42	34			
		L		54	0	30		
		M	21	58		20	250	90
		F	23	15				
11	Ir	P	17	38	34			
		S		40	53			
		L		42	35			
		M		43	10	8	23	
		M	17	43	30	8	20	14
		F	18	10				
12	Iv	P	7	5	43			
		S		7	6	1	1	260
16	Iv	e	0	54	0			
		M		58	31	8	50	20
		F	1	40				
17	Iv	P	19	58	0			
		S		59	0			
		M	20	0	12	5	27	5
		M	20	5		4	45	3
18	Iv	P	2	6	56			
		S		2	7	27	1	240

microns.

Time uncertain.
Distance 64 deg.

Distance 64 deg. O 21h 23m 24s.

Distance 12 deg.

Felt in Apia, 3 RF.

Felt in Apia, 3 RF.



Cha	Phase	U	T	T	Ac	An	Av	
July				h m s	°			microns.
19	Iv	e		21 13				
		F		21 21				
21	Iv	e		5 59 0				
		M		6 3 32	8		18	
21		e		10 7 25				Felt in Apia, 3 RF. Horizontal
		e		7 40				seismograph put out of action.
		M		10 8	1		30	10
		M		10 10	2			15
22		M		13 15	1		25	
30	Iv	e		9 15				
		F		9 20				
Aug		P		8 17 20				
1		S		18 44				
		M		8 25				
		M		8 27	8		24	14
3		S		12 50 12				Felt in Apia, 4 RF. Horizontal
3		S		12 50 39	1			seismograph put out of action.
3		P		17 9 57				
		S		17 10 25	1		45	2
4	Iv	e		22 41 9				
		L		42 34	3			
		M		22 45	8		12	
6		e		12 33 10				
		M		12 33 41	1		53	1
18	Ir	P		8 46 15				Felt in Apia, 2 RF.
		S		47 54				
		L		48 11	25			
		M		8 51 23	12	20	25	
20		e		20 21 53				
		M		20 23 0	1	22	50	3
20		M		20 41 40	1	13	15	1

Sept	Phase	U	T	T	Ac	An	Av	
17		c	4	1	30			microns.
		M	4	2	0	1	38	50
								12
								Time uncertain.
								Felt in Apia, 2 RF.
17		•	9	27	33			
		M	9	28	0	1	10	25
								2
17	Iu	P	19	28	34			
		S		88	13			
		c		49	33			
		c		51	34			
		L	19	53				
		M	19	55				
								Disturbed by changing paper.
18		•	6	25	6			
		M	6	25	47	1	13	60
								5
								Felt in Apia,, 2 RF.
23	Ir	c	23	12	17			
		L		19	27			
		M	23	30				3
24	Ir	c	1	30	0			
		c		31	22			
		M		32	50	10	30	47
		M		35	50	8	33	55
		M	1	37	40	8		75
		F	2	30				
								20
								14
								Confused,
26	Ir	P	7	52	14	4	2	
		S		56	26	6	4	
		L	7	59	16	10		
		M	8	1	15	8	10	
		M	8	1	30	8		9
								Distance 23 deg.
27	Ir	P	14	38	53			
		S		41	0			
		M		41	20	9		12
		M	14	42	50	10	5	

The results tabulated above include 9 small earth quakes known to have been felt in Samoa, and 10 other shocks which may have been felt by a few persons but have not been reported. There are also 45 movements too small to be felt, of which 13 occurred in July, 19 in August, and 13 in September.

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1927. July to September.

Lat. 13° 48' 26" S.

Long. 11h 27m 6s. W.

Instruments:

Wiechert Astatic Pendulum Seismometer, 1000 kg.

Wiechert Vertical Seismometer, 180 kg.

C. J. Westland, Seismologist.

A. Thomson, Director.

Cha	Phase	G	M	T	T	Ae	An	Av	
July									
2	e	18	47	49	s				microns.
	M	18	48	17	1	70	80	15	Felt in Apia, 2 RF.
3	Iv	P	10	38	17	1	120	300	70
	S	10	38	38	2			85	Felt in Apia, 3 RF. Both seismographs put out of action. O 10h 37m 51s. 172 W 15 S, Felt also in several islands south of Samoa.
5	Iv	e	7	24	32				
	S	25	44						
	L	28	0	14					
	M	7	26	50	12	170	260		Distance 8 deg.
	F	8							
5	Iv	e	14	14	18				
	M	14	16	0	8	6	14		
18	Iv	e	5	34	34				
	L	35	27						
	M	36	40	10			75		
	M	5	38	50	11	55			
	F	6	10						
18	Iv	e	11	34	36				
	M	11	34	50	5	23	36		Confused
	M	11	39	15	8	25	22		
19	Iv	e	9	10	59				
	S	13	31						
	L	13	40	14		20	23		Distance 13 deg.
	M	9	15	5	12				
19	Iv	L	9	49	20				
	M	9	50	30	11	20	26		

Cha	Phase	G	M	T	T	Ac	An	Av	
Aug. 18	Iu	e	19 46	20					microns. Record interrupted by change of paper at 20h.
		e	19 56						
		L	20 10	25					
		M	20 13	23	45				
		F	21						
20		M	0 44	18	20				Not clear.
20	Iv	P	16 22	28					Distance 3.2 deg.
		\bar{P}	22 35						
		S	23 7						
		L	23 14	6		9			
		M	16 24	30					
21		M	15 46	54	1	6	35	1	
21		e	22 42	20	1			14	Confused.
		M	22 43	35	10	30			
		M	22 45	30	3		24		
25		M	16 48	23	1	12	40	2	
25		M	17 27	55	1	25	35	1	
Sept 2		M	18 21	43	1	18	70	4	
7	Ir	e	20 18	21					
		L	20 24	55	16	8			Distance 25 deg.
		L	20 25	16	16		7		
11		e	16 59	39					Felt in Apia, 2 RF.
		M	17 0	17	1	40	55	10	
11	Iu	L	23 37		29				In Crimea.
		L	23 49		28				
13	Iv		16 0						
			16 10						
15		i	19 37	11					
		M	19 37	47	1	55	85	20	Felt in Apia, 2 RF.
18	Ir	e	2 5	35					
			2 10	56					
		L	2 12	15	20	12			Distance 25 deg.
18	Iv	e	18 53						
		F	19 6						

Cha	Phase	G.M.T.	T.	Ae	An	Av	
Sept. 19	Iv	M	h m s	s		40	microns. Beginning lost while changing paper.
		M	20 6 30	10	100		
		F	20 30				
21		c	2 46 20		170	180	50
		M	2 47 10	1			
		M	2 47 20	1			
24		L	22				Traces.
27		c	5 15 4				6
		M	5 15 43	1	20	65	
30		i	14 51 39				3
		M	14 51 04	1	25	55	
30	Iv	P	23 53				Distance 8 deg. Falcon Island ?
		S	23 54 34				
		L	23 55 10	13			
		M	23 56 15	11	70		
Oct. 1		M	0 5	8		20	
		M	0 6	9		35	
		F	1				

On October 7 H.M.S. Laburnam reported that Falcon Island had reappeared and was in a state of active eruption.

The results tabulated above include 5 small earthquakes known to have been felt in Samoa, and 10 other shocks which may have been felt by a few persons but have not been reported. There are also 44 movements too small to be felt, of which 16 occurred in July, 15 in August, and 13 in September.

APIA OBSERVATORY. SAMOA.



SEISMOLOGICAL REPORT.
1927. October to December.

Lat. 13° 48' 26" S. Long. 11h 27m 6s. W.

Instruments:
 Wiechert Astatic Pendulum Seismometer. 1000 kg.
 Wiechert Vertical Seismometer. 180 kg.
 C. J. Westland. Seismologist. A. Thomson. Director.

Cha	Phase	G M T	T	Ae	An	Av	microns.
Oct. 9	M	h m s	s	15	50	3	
10	Ir	e	23 24 17				
		L	23 26 29	12			
		M	24 28 20	12	25	20	Distance 9 deg.
11	M	20 54	1	25	16	1	
20	Iv	e	5 53 35				
		M	5 56 10	5	9		
		M	5 56 52	5		5	
24	Iu	e	16 12 5				Distance 74½ deg.
		S	21 39				Off coast of Alaska.
			31 39				
			34 51				
		L	36 25	22			
			38 30	12			
		L	43 15	25	430	460	
		M	16 51	21	500	390	
		F	18 30				
Nov. 2	i	5 38 39					
	M	5 38 52	1	32	85	10	
2	i	5 49 26					
	M	5 49 45	1	50	85	12	
4	Iu	P	14 2 6				
		S	11 15				E W component.
		S	11 24				N S component.
		L	21 53	25	400	320	Distance 71 deg.
		M	14 24 6	18	150		○ 13h 50m 43s.
		M	14 15	18			California,
		F	15 40				

Cha Phase G M T T Ae An Av

Nov.			h m s	s					
6	Iv	M	20 45						
7	Iv	M	0 9						
7	Iv	M	0 46						
10		M	23 20 50	1	27	30	4		
12		i	15 28 17						
		M	15 28 53	1	35	75	10		
14	Iu	.L	5 47						
14	Iu	P	7 33 5						
		S	7 42 45						
		L	7 43 55						
		L	8 2						
15	Iv	e	12 3 19			10			
		M	4 52	7					
16	Iu	e	21 21 8						
			23 10						
		S	29 25						
		L	40 38	32					
		M	21 42 20	25	160				
		F	22 15						
17		e	14 39						
		L	14 45	24	15	3			
19	Iv	P	7 31 4						
		S	32 8						
		L	32 28						
		M	32 36	3					
		M	7 32 45	12	125				
		F	8 30						
21	Iu	S	23 35 57						
			51 0	10					
			53 4	12					
		L	23 59 5	18					
22		M	0 0 5	18	75				
		M	0 3 20	16					
		F	0 30			45			
22		i	1 6 58						
		M	1 7 31	1	310	230	40		

Distance 89 deg.
Chile.

Doubtful.
PRI
Distance 75 deg.
O 21h 8m 13s.

Lat 19 S. Long 173 W.
O 7h 29m 44s.
Felt slightly in Haapai Is.

Chile.

Felt in Apia, 8 RF.

Cha Phase GMT. T Ae Ad Av

Nov.	Phase	GMT	T	Ae	Ad	Av	microns.
28	Ir	P	10 15 48				Very large microseisms on Nov 25 and 28 attributed to storm of Samoa.
		S	19 5				
		L	19 50	13			
		M	10 27	8	75	80	
Dec. 11	Ir	e	15 31 46				
		L	40 5	16			
		M	41 0	12	90		
		M	43 50	12	10		
		M	15 54 50	9	26		
		F	17				
12		L	18 59 11				
		M	19 1 51	12	45		
13		L	1				Traces
19		P	6 0 43				
		S	6 0 59				
		M	6 1 30	1	35	36	Felt in Apia, 2 RF.
19		M	8 46 50	1	45		
		M	9 13 50	1	50		
21		e	4 31				
		F	5 0				
23	Iv	e	10 2				
		F	10 30				
27		i	2 28 43				
		M	2 29 4				
		M	2 29 39				
28	Iu	P	18 32 6				PRI. Distance 73 deg. O 19h 20m 30s. In vicinity of Kamchatka.
			35 33				
		S	41 32				
		L	18 50 40				
		L	18 54 10				
		M	19 4	18	70		
31		M	3 46 37	1	14		
		M	4 35 48	1	20		

A renewal of the eruption of Falcon Island was reported by Nukualofa Wireless Station on December 11.

The results tabulated above include 2 small earthquakes known to have been felt in Samoa, and 10 other shocks which may have been felt by a few persons but have not been reported. There are also 53 movements too small to be felt, of which 18 occurred in October, 20 in November, and 15 in December.

Printed at the Observatory.