



APIA OBSERVATORY. SAMOA.

SEISMOLOGICAL REPORT.

1927. January. to March.

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.

Jan.	Cha	Phase	G.M.T.	T.	Ac	An	Av	microns.
			h m s					
19	Iv	P	5 53 26	1			1	
		S	53 43	1			1	
		L	5 54	5	8	5		
21		M	20 15 11	1	14	18	3	
24	IIIr	P	1 10 15	2	4	5	2	
		S	14 14	8				
		L	15 55	15				
		M	16 15	12			140	
		M	13 0	12		450		
		M	1 20 40	12	130			
	F	3						
24	Ir	P	6 47 0					
		L	53 16	15				
		M	6 54 15	12	3	4		
		F	7 20					
25	Ir	e	7 57 20					
		L	8 4 36					
		M	5 10					
		F	8 20					
25	Ir	P	23 15 16	2	7	5	1	
		S	19 19	8				
		L	21 45	12				
		M	22 35	10		33		
		M	23 24 50	10	17			
26		F	0 15					
26	Ir	P	15 41 27				1	
		S	45 19					
		L	46 45	12				
		M	48 30	10	7	8		
		M	15 55 20	10	11			
		F	16 40					

Distance 22 deg.
 O 1h 5m 10s.
 Ambrym Island.
 16 S, 163 E.

Distance 22 deg.
 Probably a repetition of
 shock on Jan. 24.

	Cha.	Phase	G.M.T.	T.	Ac	An	Av	
Jan.			h m s	s				micros.
30	Iv	e	16 13 27					
			16 14 40	8		2		
Feb.								
4	Ir	P	2 54 33					
			54 59					Distance 11½ deg.
		S	53 43					
		L	53 14					
		M	2 5 50	8	7	9		
		F	3 15					
4		e	5 10 30					
		M	5 11 17	1	65	85	10	Felt in Apia, 2 RF.
16	Iu	P	1 47 6	2			1	Difficult among large micros.
			2 6 43					
			11 16					
			15 26					
		L	27 51					Weak traces of more L waves.
			3 47					
21		M	21 31 24	1	20	25	4	
22		M	5 36 45	1	20	27	4	
25	Iv	e	16 47					
		M	16 48	5		7		
26	Ir	P	2 8 16					Distance 12½ deg.
		L	11 4					
		M	12 43	12	35	110	70	
		F	2 40					
27		i	9 28 56					
		M	29 19	1	160	150	30	Felt in Apia, 3 RF.
		M	9 29 35	1	190	130	35	
28	Iu	L	14 50					No earlier phases.
		M	14 53	20	6	13		
Mar.								
3	Iu	P	1 16 26					Difficult. large micros.
			26 49					S ? Distance 73 deg.
			33 39					
		L	41 9	20				
		M	1 45	20	7			

Cha.	Phase	G.M.T.	T.	A ₀	A _n	A _v	
Mar. 7	Iu	P S L M	h m s 9 39 20 9 48 23 9 59 27 10 1 2 10 11	s 18 37 20	18		microns. Doubtful. Obscured by micros. Period ? Japan.
9		M	3 23 30	1	40	13	
10	Iv	e F	17 15 17 20				
11	Iv	e M	1 31 37 1 33	4	17		Confused by small local shock 1h 32m.
17		e M	22 22 20 22 22 42	1	160	45	Felt in Apia, ,2 RF.
23	Iv	e M	7 40 12 7 41 40	1 3	11	12	
23	It	L M F	9 29 0 33 45 9 50	13 01	9	20	10 No earlier phases.
26	Iv	P S L M M	2 29 37 33 53 31 27 33 53 2 38 37	13 8 8	12 23	9 20	Distance 6 deg.
26		e M	3 33 12 3 33 51	1	33	20	4
31	Iv	P L M	7 13 48 7 14 53 7 16 8	10 8	11	27	

The results tabulated above include 3 small earthquakes known to have been felt in Samoa, and 5 other shocks which may have been felt by a few persons but have not been reported. There are also 59 movements too small to be felt, of which 12 occurred in January, 18 in February, and 29 in March.

Printed at the Observatory,

APIA OBSERVATORY. SAMOA.

SEISMOLOGICAL REPORT.

1927. April to June.

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

Instruments: Wiechert Astatic Pendulum Seismometer. 1000 kg
 Wiechert Vertical Seismometer. 130 kg.

C. J. Westland, Seismologist.

A. Thomson, Director.

Cha	Phase	G.M.T.	T.	Ae	An	Av	
Apr, 1	Iv	e	h m s	s			microns.
		L	19 8 10	9	45	100	22
		M	9 35	9			Distance 6 deg.
		M	9 40	9	480		
		M	19 10	8	105		
		F	20 30				
7		M	2 8 28	1	14	28	1
14	Iu	P	6 36 43	2	4	4	Distance 89 deg.
		S	47 34				O 6h 23m 32s.
			49 28	24			PS ?
		L	7 6 10	36			
		M	9 15	20	13	50	Chile and Argentina.
		F	7 40				
16			8 50				Traces of L waves,
18		e	10 9 0				
		M	10 9 32	1	105	230	30
23		e	13 6 41				
		M	13 7 21	1	50	1 00	10
23		M	16 17 50	1	10	12	3
27	Ir	P	2 53 21	2	2	5	1
			54 24				Distance 10 deg.
		S	55 17				
		L	55 49				
		M	58 19	9		60	
		M	2 59 5	9	10		
		F	3 15				

Cha Phase G.M.T. T. Ae An Av

			h	m	s	s					
May.											
1		c	22	30	44						micros.
		M	22	31	7	1	15	90		S	
15		e	22	12	53						Felt in Apia, 2RF.
		M	22	13	26	1	20	90		2	
16		c	0	20	7						
		M	0	20	35	1	20	65		6	
21		e	16	56	5						
		e	16	56	15						Confused.
		M	16	57	31	2	30	90		7	
		M	17	1	45	6	12	15			
22	IIIu	P	22	51	14						EW component not working freely.
		S		57	47						
				59	12						
			23	4	0						
		L		14	20	40					
		M		21	10	24					
		M		26	10	25					
		M	23	44		20					
23		M	0	2		17					
		F	0	30							
26		M	8	58	0	1	14	36		1	
27	Iv	e	3	36	59						
		L		37	33						
		M		39	42	8		25			
		M	3	41	7	8	7				
30			5	40							Traces of L waves.
30			9	30							
31	Iv	e	8	52	37						
		M	8	35	7	4	20	80		1	
June,											
1	Iv	c	12	38							
		M	12	39		7	9	15			
3	IIIu	P	7	21	57	3	8			1	
				24	16	5					
				24	59						
				26	50						
		S		30	2	7		18			
				30	25	9	22				
		L	7	40	4	26	140	270			
		F	8	30							

Cha	Phase	G	M	T	T	Ac	An	Av		
June									microns.	
4	e	2	26	26						
	M	2	26	53	1	25	50	5	Felt in Apia, 2RF.	
4	M	20	42	15	1	15	27	2		
18	e	12	17	4						
	M	12	17	19	1	18	12	4		
14	Iu	e	17	26	25					
		L	45	8	28					
		M	17	46	20	24	12	45		
14		e	18	29	46					
		M	18	30	14	1	25	45	5	Felt in Apia, 2 RF
18		e	5	21	46					
		M	5	22	21	1	130	120	20	Felt in Apia, 3 RF.
20		e	7	2	50					
		M	7	3	23	1	36	60	13	
22		e	7	12	47					
		M	7	13	22	1	20	30	6	
23	Iv	M	10	34		9	2			
29			21	31						Traces of L-Waves
			21	42						

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 61 movements too small to be felt, of which 22 occurred in April, 19 in May, and 20 in June.

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