

PRELIMINARY SEISMIC BULLETIN

APIA, WESTERN SAMOA

Cepid EK



NO.	DATE	PHASE	COMP	TIME			AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE & REMARKS
				h.	m.	s.				
1	1	eP eS	NE NE	10	15 15	09 22	0.6 0.4	0.5 0.5		South of Tonga Is. (BCIS) 0 = 10 10.0
2	1	eP iS	NE	23	03 54	22	2.5 15.5	0.5 0.6	3.2	Tonga Is. region (USCGS) 16 S., 174 W 0 = 23 02 33 iS to W and N
3	11	iP P iS S	NE NE NE NE	13	21 40	37 40	8.5 14.0	0.5 0.5	10.6	Tonga Is. region (USCGS) 23½ S., 177 W 0 = 13 18 47 Mag.: 6¼ (Matsushima)
4	13	eP	NE	02	59	31	1.7	2.0	21.6	Santa Cruz Is. (USCGS) 11 S., 166 E 0 = 02 54 37 h about 100 km
5	13	iP eS	E NE	07	13 14	18 48	1.1 0.6	0.8 0.8		Fiji Is. (USCGS) 0 = 07 10 30 iP to W
6	13	eP iS	NE NE	18	00	02 28	2.5 4.5	0.5 0.5		Samoa Is. region
7	13	eP iS	NE NE	23	00 01	46 06	1.1 8.0	0.4 0.5		Samoa Is. region
8	14	eP iS	NE NE	05	56 58	56 28	1.7 2.5	0.6 0.7	8.8	Tonga Is. (USCGS) 22 S., 175 W 0 = 05 54 48 iS to S & W.

JANUARY, 1958.



NO.	DATE	PHASE	COMP.	TIME		AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE
9	14	eP eS	NE NE	07	24 06 26 56	0.5 0.9	0.5 0.6	16.6	Kermadec Is. 29 S., 179 O = 07 20 25 h = 350 km
10	15	iP! e eL _R	E E E	22	20 39 24 (27) 25 .54	1.7 1.0 1.3	3.0 4.0 18.0	19.7	New Hebrides Is. (USCGS) 15½ S., 167 E O = 22 15 44 iP to W, 10 mu 3.0sec.
11	16	iP! iS	NE E	04	17 55 18 40	8.0 18.5	0.5 0.5	3.7	Tonga Is. region (USCGS) 16S., 175 W O = 04 16 46 h about 250 km. iP to S & W; iS to W.
12	16	eP eiS	NE NE	06	54 39 59	3.0 11.5	0.5 0.7		Samoa Is. region
13	16	iP eiS	N NE	21	08 33 50	9.0 15 ⁺	0.5 0.5		Samoa Is. region iP to N
14	18	iP iS	NE E	22	38 46 39 23	3.5 17.0	0.5 0.6		iP to N & E; iS to E. iS 14 mu, 0.6 sec.
15	19	eL _Q eL _R	E E	14	51.3 56.3	0.5 0.5	21 17		Near coast of Ecuador (USCGS) 1½ N., 79½ W. O = 14 07 27 Mag.: 7½, h about 60km
16	25	eP eS	NE E	08	56 35 00 (01)	0.6 0.3	0.7 1.0	18.1	New Hebrides Is. (USCGS) 18½ S., 170 E. O = 08 52 23, h about 150 km.

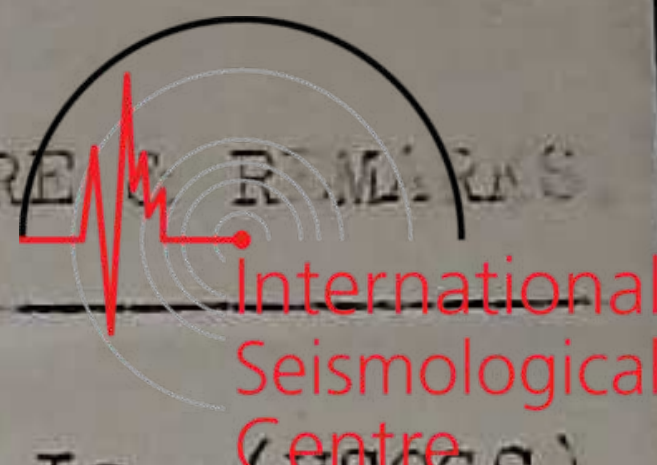
JANUARY, 1958.



NO.	DATE	PHASE	COMP.	TIME			AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE	REMARKS
17	23	iP! i iS!	NE NE NE	16	23 24 24 20 25	2.4 1.2 4.0	0.5 0.5 0.5	4.7 ca	Tonga Is. region Near 18 S., 175½ W.		
18	23	eP eS	NE NE	23	49 03 51 18	0.8 0.8	0.5 0.5	13.5 ca	South of Tonga Is. Near 26 S., 178 W O = 23 45.8 (BCIS)		
19	24	e(P)	E	06	06.1	0.4	1.2	73	Near E coast of Kamchatka (USCIS) 56½ N., 163 E. O = 05 53 58. Mag.: 6½ (Pas.)		
20	24	eP eS	NE NE	13	10 48 12 07	0.3 0.4	0.5 0.5		Fiji Is. region (BCIS) O = 13 08.0		
21	24	eiP eS	NE NE	23	55 28 57 02	4.5 1.5	0.5 0.5	7.5	Fiji Is. (USCIS) 17½ S., 178½ W. O = 23 53 29 n about 550 km.		
22	26	eP eS	NE NE	12	28 35 29 27	0.8 0.9	0.4 0.5		Tonga Is. region (BCIS)		
23	27	eiP S	NE NE	07	44 36 45 (04)	10.5 22.0	0.5 0.5	2.6	Samoa Is. (USCIS) 15 S., 174 W. O = 07 43 58 Mag.: 6¾ (Pas.) 6.0 (Wellington) Coda for over ½ hour		
24	28	iP eS	NE NE	08	32 18 33 06	2.1 1.0	0.6 0.5	4.5 ca	Tonga Is. region O = 08 31.2 ca. iP to N & E.		
25	29	eiP eiS	NE NE	18	40 52 41 29	3.5 11.0	0.4 0.5		Samoa Is. region.		

JANUARY, 1958.

NO.	DATE	PHASE	COMP	TIME		AMP	PERIOD	DISTANCE	EPICENTRE	REMARKS
				MM	SS					
26	30	eP eS	NE NE	02	11 29 13 21	0.5 3.0	0.4 0.5	10.3	S of Fiji Is. (USCGS) 21 S., 179½ W. O = 02 08 44 h about 250 km.	
27	30	eP eS	NE NE	04	59 22 00 17	1.1 5.0	0.4 0.4	5.5	Tonga Is. (USCGS) 18 S., 172½ W. O = 04 58 01 Mag.: 5.2 (Roxburgh)	
28	30	eP eL _R	NE NE	06	20 05 29.4	0.6 0.8	1.7 15	32.4	Solomon Is. (USCGS) 7½ S., 155½ E. O = 05 13 24 Mag.: 6½ (Pas., Wellington)	
29	30	eP eS	NE NE	22	44 09 46 14	0.9 1.2	0.8 0.8	12.4 ca	Tonga Is. region (USCGS) O = 22 41 27 h about 600 km. Near 26½ S., 170½ W.	
30	31	eP eS	NE NE	21	01 52 03 28	0.7 1.0	0.5 0.5	9.9 ca	South of Tonga Is. (BCIS) Near 23 S., 175 W. O = 20 59.5	



KEW
OBSERVATORY
21 DEC 1959
RICHMOND,
SURREY.

~~155~~ *Apia*
155

new
Copied
International
Seismological
Centre
MARCH, 1959.

PRELIMINARY SEISMIC BULLETIN.

APIA, WESTERN SAMOA

NO.	DATE	PHASE	COMP	TIME			AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE & REMARKS.
				h.	m.	s.				
45	1	eP	NE	06	24	46	2.0	0.5	3.3	Tonga Is. region (USCGS) 17S., 172½W. 0 = 06 23 58 iS to W.
		iS	E		25	25	4.5	0.5		
46	1	eP	NE	07	26	58	0.5	0.4		Samoa Is region.
		eS	NE		27	33	1.5	0.4		
		eT	E		30.1		0.7	1.5		
47	1	eP	NE	11	23	46	1.4	0.4		Samoa Is. region.
		iS	NE		24	18	11.3	0.5		
48	1	eIP	NE	16	16	52	12.0	0.5	3.2	Tonga Is. region (USCGS) 17S., 173W 0 = 16 16 01 Felt Apia MM 2
		iS	NE		17	25	26.0	0.5		
49	3	iP	NE	04	51	37	4.5	0.4	3±	Fiji Is. region (USCGS) 0 = 04 50 44 iP to N & E iS to E
		iS	E		52	06	20	0.5		
50	3	iP	E	07	56	59	3.7	0.5		Samoa Is. region iP to W. iS to N & E.
		iS	NE		57	28	25	0.5		
51	3	eP	NE	08	29	29	1.5	0.4		Samoa Is. region. iS to N & W.
		iS	NE			47	8.0	0.4		

MARCH, 1958.



NO.	DATE	PHASE	COMP	TIME			AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE & REMARKS.
				h.	m.	s.				
52	3	eP eS	NE NE	11	06 07	32 33	0.6 3.0	0.5 0.4	6.7	Tonga Is. (USCGS) 20S., 174½W. O = 11 04 49
53	3	eP iS	NE NE	14	45	31 47	1.3 16	0.4 0.4		Samoa Is. region. iS to N & E.
54	4	eP eS	NE NE	04	39 41	53 18	0.4 0.8	0.4 0.8		South Pacific (BCIS)
55	5	eP	NE	05	41	47	0.2	0.4	23.3	Off coast of North island New Zealand (USCGS) 35.3S., 178.9E O = 05 36 58 h = 260 km. Mag. = 5.9 (WN)
56	5	eP iS	NE NE	22	26	31 51	1.0 5.0	0.4 0.5	1.6ca	Samoa Is. region. iS to N & E.
57	6	eP iS	NE NE	01	10	17 42	2.3 21	0.3 0.5	2.1ca	Samoa Is. region. iS to N & W.
58	6	iP! iS!	NE NE	03	22 23	48 33	2.9 4.5	0.5 0.5	3.4	Fiji Is. region (USCGS) 15S., 175W. O = 03 21 49 h = 250 km iP to N & E iS to S & W.
59	7	eP iS!	NE NE	17	33 35	34 09	2.9 4.5	0.5 0.5	7.3	Tonga Is. (USCGS) 20S., 176... O = 17 30 38 iS to S & W.

MARCH, 1958.



NO.	DATE	PHASE	COMP	TIME			AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE & REMARKS
				h.	m.	s.				
60	9	eP eS	NE NE	10	27 30	08 36	0.5 0.7	0.5 0.7	20.8	Kermadec Is. region. (USCGS) 34S., 178 $\frac{1}{2}$ W. O = 10 22 25 h about 60 km. Mag. 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$ (Pas.)
61	10	eP eS	NE NE	21	33 34	33 43	1.0 6.5	0.4 0.4	7.3	Tonga Is. (USCGS) 20S., 176W. O = 21 31 48 h about 200 km.
62	11	eP iPP	E E	14	03 04	(56) 09	0.5 0.8	1.4 2.0	20.7	New Hebrides Is. (USCGS) 13S., 167E. O = 13 59 00 Mag. 5 $\frac{3}{4}$ - 6 (Mat.) iPP to E
63	15	eP iS	NE NE	07	53 54	(20) (52)	0.5 1.6	0.4 0.4		Fiji Is. region?
64	24	e(P)	NE	21	51	(19)	0.5	2.0	18.5	Loyalty Is. region (USCGS) 21 $\frac{1}{2}$ S., 170 $\frac{1}{2}$ E O = 21 46 31
65	28	eP iS	NE N	09	00.1 01	(37)	0.5 1.1	0.7 0.6		Fiji Is. region? P confused by microseisms. iS to N.
66	28	eP eS	NE NE	14	47.1 48.3		1.0 2.6	0.5 0.5	7.0	Tonga Is. (USCGS) 20 $\frac{1}{2}$ S., 174W. O = 14 45 22

MARCH, 1958.

NO.	DATE	PHASE	COMP	TIME			AMP mm	PERIOD secs.	DISTANCE deg.	EPICENTRE & RESEARCH
				h.	m.	s.				
67	30	eP	NE	14	37	56	1.7	0.3	4.8	Tonga Is. region (BCIS) 17S., 175 $\frac{3}{4}$ W. O = 14 36 48 iS to S & E.
		iS	NE		38	45	20	0.4		
58	30	iP	N	17	35	49	1.2	0.5	12.2	Fiji Is. region (USCGS) 23S., 179 $\frac{1}{2}$ E. O = 17 35 01 h about 550 km. iP to S.
		eS	NE		38	00	0.7	0.5		
30	30	eP	NE	22	39	06	0.5	0.5	8.4	Tonga Is. (USCGS) 22S., 176W. O = 22 36 53
		eS	NE		40	36	0.7	0.5		
		eS	N	21	36	05	0.2	0.6		Kermadec Is. region (BCIS) O = 21 30.7

The recording instruments are two short period Wood-Anderson seismographs, designated N and E, and orientated approximately NS and EW.

Instrumental constants:

N T = 0.80
 V = 2050 \pm 100
 Damping ratio 15:1

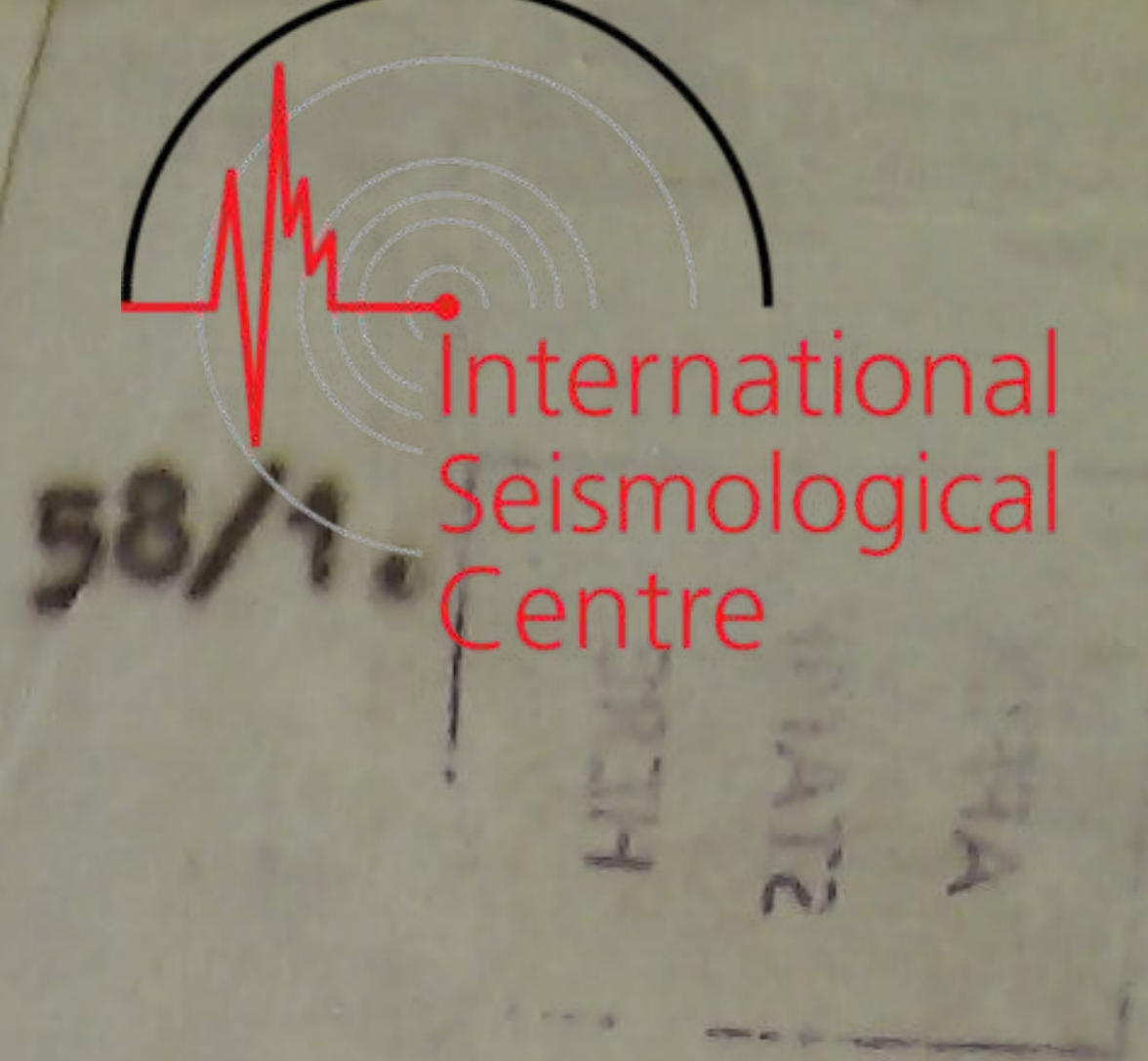
E T = 0.80
 V = 2050 \pm 100
 Damping ratio 15:1

The amplitudes and ground motions refer to the component recording the largest values.

Deflection time marks are controlled by a Synchronome clock which is corrected daily against WWVH time signals.

J.G. Keys,
 Observer-in-Charge,
 Apia Observatory.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA.



58/1.

JAN.	1	eP iS	23	03 03	22 54
	6	e(P) e e e	22	26 26 29 30	01 42 00 00
	11	eP e(S)	03	17 21	16 19
	11	eP iS	13	21 21	37 40
			foreshock.		
	11	iP iS	13	23 23	31 34
	13	e	02	59	31
	15	i(P)! i eL	22	20 22 25	39 39 54
	16	iP!	04	17 18	53 40
	16	eP	06	54 54	39 59

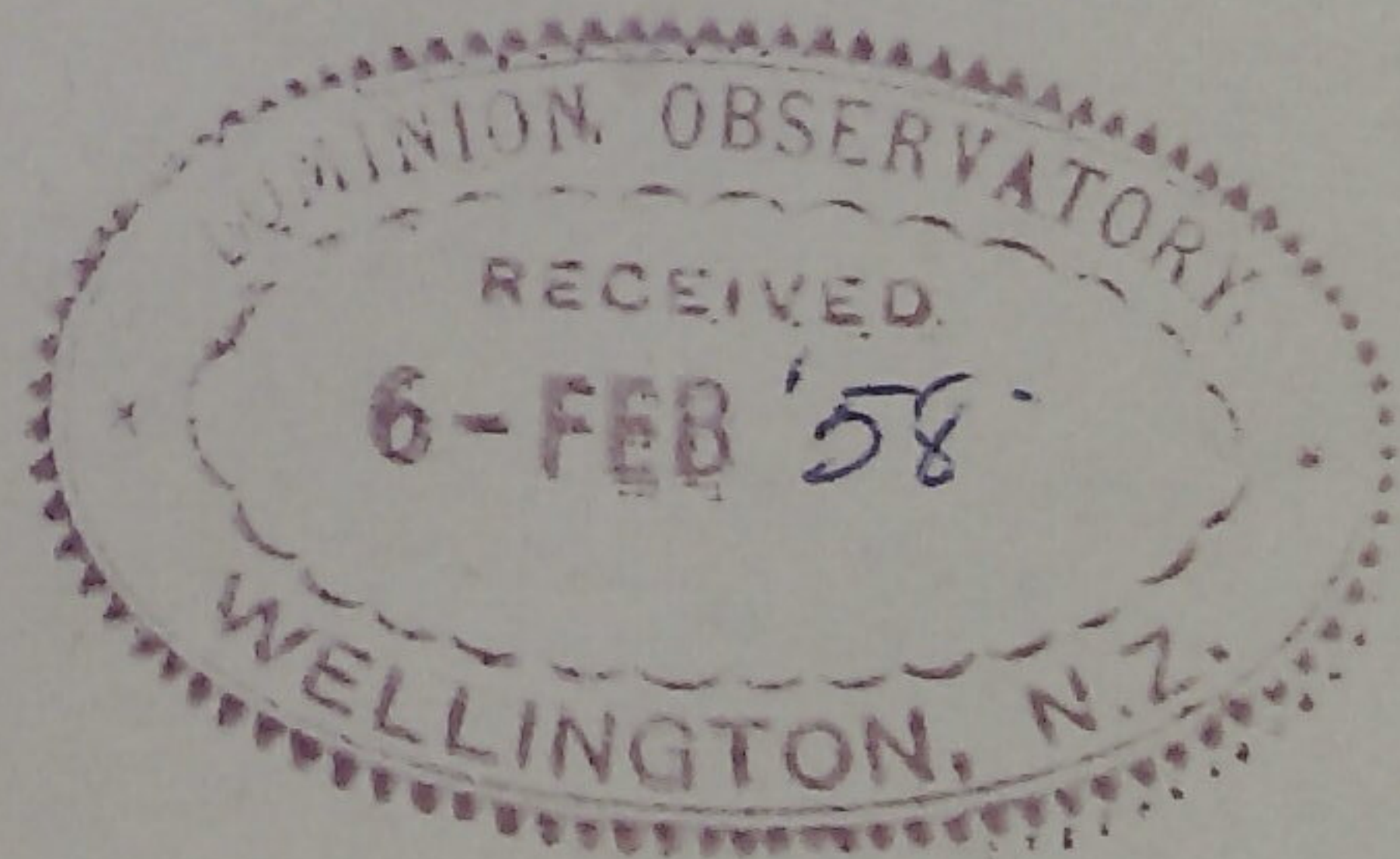
Apia Observatory,
Apia,
WESTERN SAMOA.
17th January, 1958.

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PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 58/3.



JANUARY 24	1P	23	53	28
	eS		55	02
26	e(P)	12	28	35
	e(S)		29	27
27	eP	07	35	05
	1S		35	24
27	e1P	07	44	36
	e1(S)		45	04
	e		46	11
		Code for over 1/2 an hour		
28	1P	08	32	18
	eS		33	06
29	e1P	18	40	52
			41	29
30	eP	00	07	47
	1S		08	04
30	eP	04	59	22
	eS	05	00	17
30	e	05	04	22
30	1(S)	06	20	03
	eL		29.4	
30	eP	22	44	09
	e(S)		46	14
	i		47	00
31	eP	08	56	55
	e1S		57	18



Apia Observatory,
WESTERN SAMOA.
31st January, 1958.



PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA.

58/2

JAN.	31	e(P)	19	46	52
	31	eP	20	47	26
		eS		48	00
	31	eP	21	01	52
		e		03	28
		e(L _Q)		05	10
		e(L _R)		06	15
FEB.	1	eP	07	36	31
		eS		37	02
	3	eP	07	29	24
		(e)		31	47
		e(S)		32	53
	3	eP	08	27	07
		e		28	08
		e(S)		34	29
	4	eP	01	43	09
		IS!		43	33
	6	IP!	09	24	26
		IS!		24	53
	7	e	01	18	13



Apia Observatory,

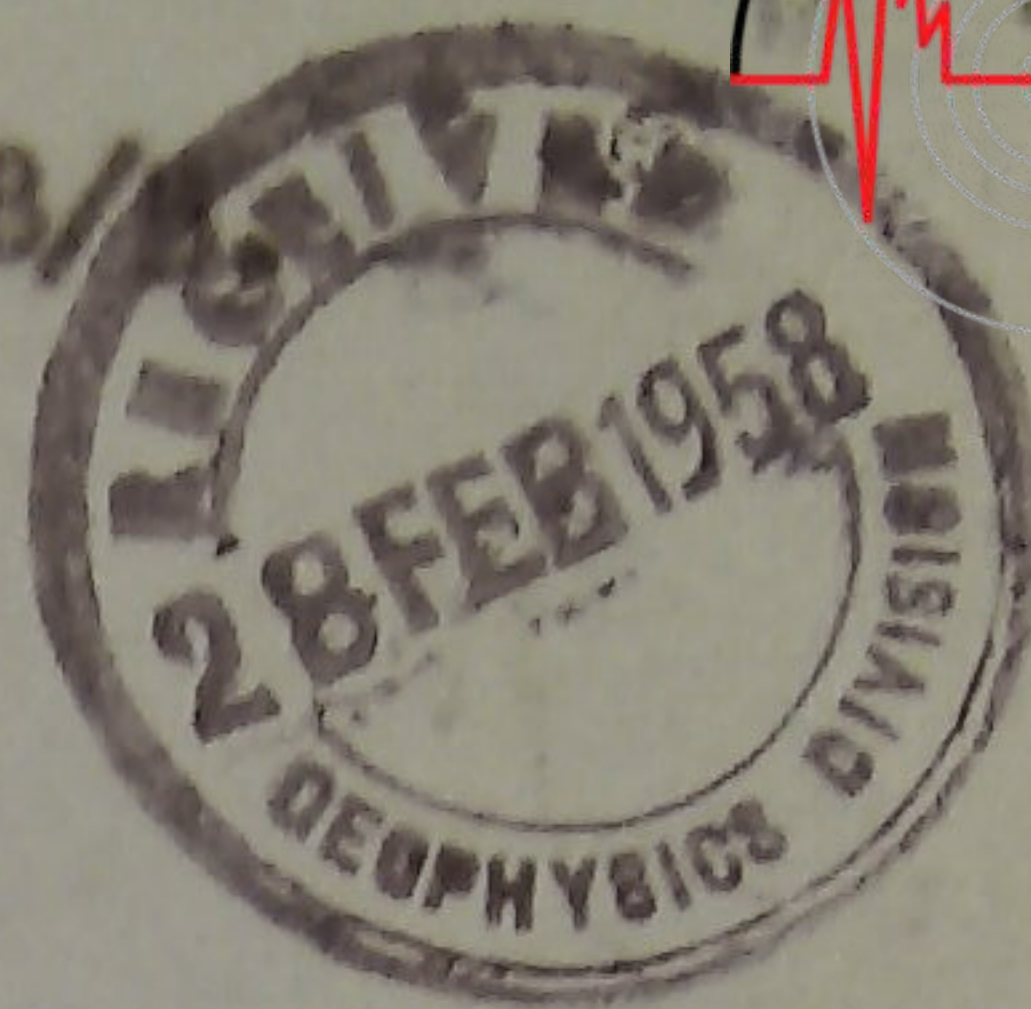
WESTERN SAMOA.

7th February, 1958.

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PRELIMINARY SEISMIC READINGS FROM APIA ETC.

58/



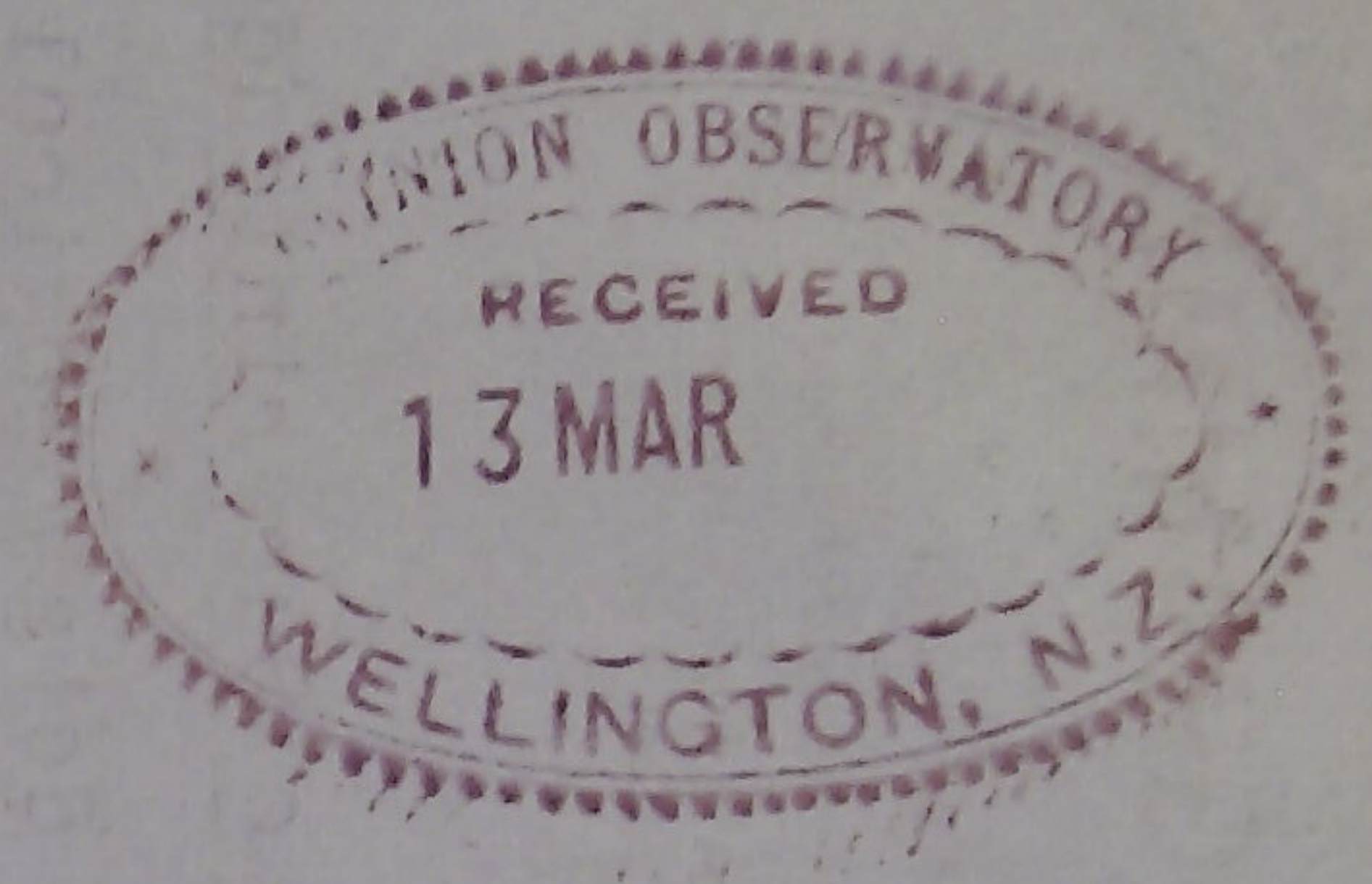
1958.

FEB.	8	eP	22	53	21	
		eS		54	27	
	9	eP	20	29	41	
		iS		31	46	to E
	14	eP	22	16.1		confused by microseisms.
		iS		16	49	to N
	14	e	22	19.8		confused by microseisms.
	17	i	02	17	50	To E
	18	eP	07	35	53	
		iS		37	11	to NE Tonge Is.?
	18	e	07	42	57	
		i		44	20	to N
			1	52m,	7.0secs.	
	18	eL	13	31.4		
	19	eP	07	46.7		
		iS		47	01	to NE.

Apia Observatory,
WESTERN SAMOA,
21st February, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA ETC. 5 8/6

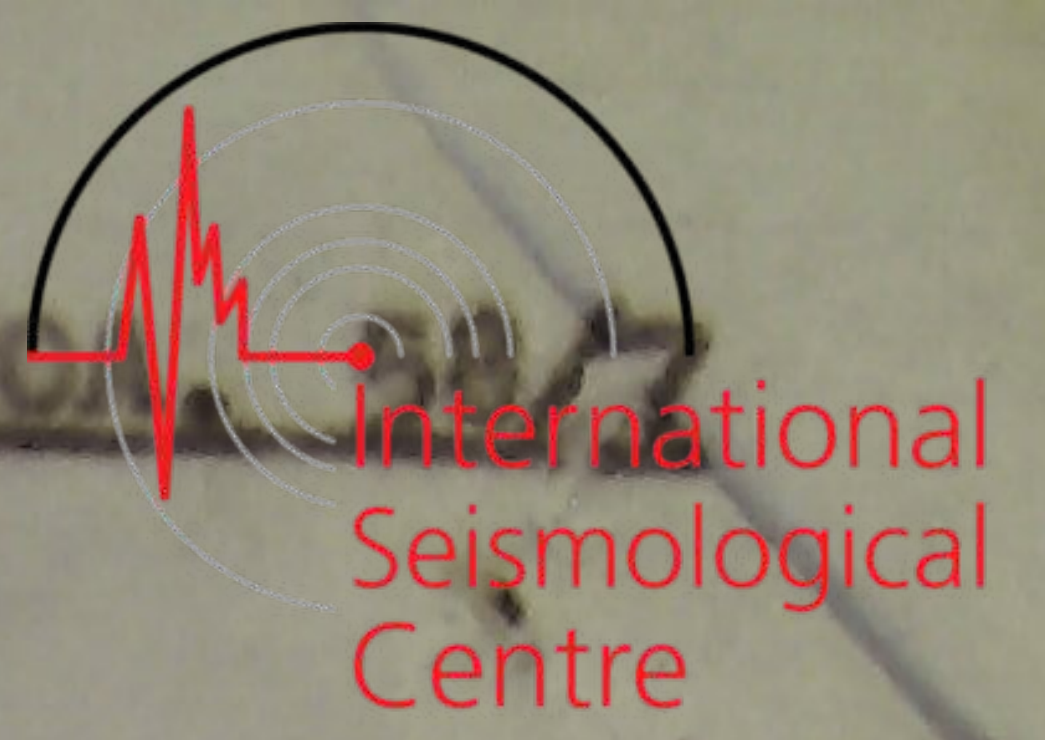
FEB. 22	1P	08	06	42	to S
	1S		07	12	to W
22	e(P)	11	01	10	
23	e	10	57.4		
24	eP	02	23	05	
	1S		23	25	to SW
24	eP	21	25	58	
	1S		26	20	to N
26	eP	02	40.6		
	eS		42	27	
27	eP	06	21	11	
	1S		21	32	to NE
27	e	23	39	40	
28	eP	00	02	55	
	1S		03	15	to SW.



Apia Observatory,
Apia,
WESTERN SAMOA.
28th February, 1958.

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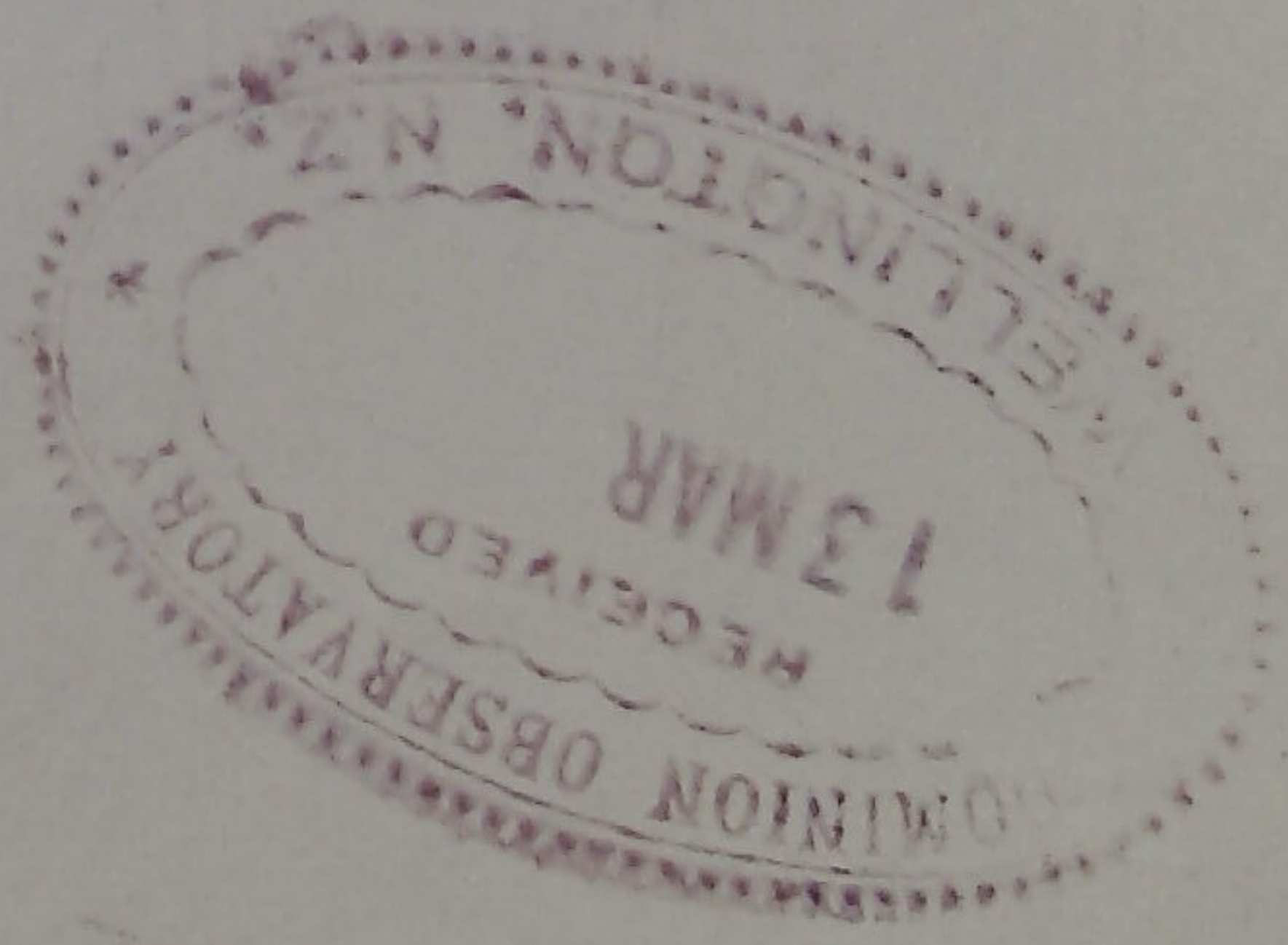
PRELIMINARY SEISMIC READINGS FROM APIA OBSERVATORY, SAMOA 1958



MARCH 1958.

1	eP 1S	06	24 25	46 25
1	eP eS	07	27 30.1	01
1	eP 1S	11	23 30	46 18
1	eP 1S	16	16 17	52 25
Felt Apia MM 1-2.				
2	eP 1S	17	31 32	45 10
3	1P 1S	04	51 52	37 06
3	1P 1S	07	56 57	59 28
3	eP 1S	08	29 29	29 47
3	eP eS	11	06 07	32 33
3	eP 1S	14	45 45	31 47
5	eP 1S	22	26 26	31 51
6	eP 1S	01	10 10	17 42
6	1P! 1S!	03	22 23	48 33
7	eP 1S!	17	34 35	(03) 09

Confused by microseisms.



NOTE: All phases from Apia (AA) not Afiamelu (AF).

Apia Observatory,
Apia,
WESTERN SAMOA.
7th March, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA, 58/8.



All phases from Apia (AA), not Afiamalu (AF)

MARCH	8	eP 1S	08	35	00
				35	28
	8	e	08	37	33
	9	eP eS	10	27	08
				30	37
	9	1P 1S	15	00	59
				01	17
	10	eP eS	13	20	50
				21	28
	10	eP eS	21	33	33
				34	43
	11	(e) 1!	14	03	(56)
				04	09
	13	1P 1S	08	22	(14)
				22	(36)
	14	eP (eS)	00	12	(43)
				15	(25)
	14	eP 1 (eS)	00	49	(53)
				50	(14)
				51	(46)

SEISMOLOGICAL OBSERVATORY

24 MAR 1958

Apia Observatory,
Apia,
WESTERN SAMOA.
14th March, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA



All phases from Apia (AA) not Afiamalu (AF)

SEISMOLOGICAL OBSERVATORY

1958.

MARCH. 15

eP
1S

07 53 (20)
54 (52)

28 MAR 1958

17

eP
eS

11 53 47
54 11

17

eP
1S

22 07 56
08 29

18

eP
1S

13 00 11
00 33

20

eP
eS

12 20 38
20 57

21

eP
1S

01 11 59
12 18

Apia Observatory,

Apia,

WESTERN SAMOA.

21st March, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/10.



All phases from Apia (AA) not Afiamalu (AF).
** denotes ± 2.0 secs. - non-linearity clock rate.
* " " ± 1.0 " " " " " "

Year	Month	Day	Phase	Time 1	Time 2	Time 3
1958.	MARCH	22	eP	18	26	19**
			eS		26	39**
		26	eP	15	25	39**
			eS		25	59**
		27	e	09	01	38**
		28	eP	14	47	07**
			eS		48	16**
		28	eP	21	21	02**
			eS		21	30**
		29	eP	03	39	17
			IS		39	47
		29	eP	12	15	34*
			IS		15	56*
		30	eP	14	37	56*
IS			38	46*		
30	eP	17	35	48*		
	eS		38	00*		
31	iP	02	34	50*		
	IS		35	02*		
31	eP	22	39	06		
	eS		40	34		

Apia Observatory
WESTERN SAMOA,
1st April, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA, 50/11.

SEISM...
17 APR 1958

1958 APRIL	4	1P!	01	58	30
		eS		00	32
	4	eP	12	08	14
		1S!		08	34
	5	eP	23	37	46
		1S!		38	20
	7	eP	07	11	04
		eS		12	35
	7	e(P)	15	43	10
		eL _Q	16	03.7	
		eL _R		06.9	
		(P)	1.3	mu,	1.8 secs.
		L _Q	506	mu,	36.0 secs.
		L _R	90	mu,	14.0 secs.
	8	eP	13	23	04
		1S		24	07
	8	eP	23	39	43
		eS		40	10
	9	eP	13	32	59
		eS		33	22
	10	eP	00	39	16
		eS		39	35
	10	eP	19	11	30
		eS		12	20

Apia Observatory,
WESTERN SAMOA,
11th April, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 58/12

APR. 11	e(P)	23	52	36	
12	eP e(S)	05	52 55	20 (40)	
13	1P! 1S!	08	27 28	08 21	
14	eP eS	14	06 07	52 10	
14	eP eS	23	36 37	39 12	
15	eP	08	29	18	AP
17	eP 1S!	15	36 36	18 48	AP
18	eP 1S	07	34 35	12 48	AP
18	e1P 1S	22	22 22	03 23	AP
18	eP 1S	22	35 35	28 48	AP
20	1P 1S	09	54 54	36 (58)	AP

Coda for 15 minutes.

APR. 20	eP 1S	23	39 40	51 26
20	e	23	42.5	
21	1P 1S	20	15 16	35 12
Coda for over 30 minutes.				
22	1P 1S	05	39 40	55 29
23	eP eS	09	35 35	00 20
23	eP 1S	10	36 37	55 25
23	eP (e) e	15	12 13 14	50 41 52

NOTE: All phases from Apia (AA), not Afiamalu (AF).

Apia Observatory,
24th April, 1958.
WESTERN SAMOA.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/13.

APR.	24	eP	12	10	36
		eIS		10	57
	24	e(P)	13	14	13
24	eP	23	27	59	
	iS		28	20	
25	iP	19	19	(50)	
	iS		20	(10)	
26	eP	04	21	36	
	iS		22	00	
26	eP	13	50	19	
	iS		50	38	
27	eP	08	15	10	
	iS		16	41	
29	e(P)	03	17.4		
	Confused by microseisms.				
30	eP	01	31	40	
	eS		33	57	
MAY.	1	eP	00	33	16
		iS!		33	42

NOTE: All phases from Apia (AA) not Afiamelu (AF).

Apia Observatory,
2nd May, 1958.
WESTERN SAMOA.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/14.

MAY	2	eP 1s	22	28 28	18 48
	4	1P! 1S	01	03 03	03 23
	6	eP eS	03	34 36	17 23
	7	eP 1S	05	48 49	55 12
	7	eP 1S	16	04 05	43 11
	9	eP 1S!	18	43 44	30 10
	11	1P! 1S	07	49 49	29 58
	15	eP e(3) Confused by microseisms.	14	29 35	(20) (13)
	15	e	15	07	05

NOTE: All phases from Apia (AA) not Afiamalu (AF)

Apia Observatory,
WESTERN SAMOA.
16th May, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/15.

MAY 17	eP eS	04	51 52	45 07
17	e	17	01.2	
17	eP eiS	17	45 46	10 05
18	eP eS	01	51 51	00 30
18	ei(P) eL	02	37 42. (5)	45
18	e(P)	03	36	11
18	eP e(PP) e ePcP eL	12	25 26 26 27 32.5	12 07 36 23
19	eP iS!	03	48 49	53 20
20	eP eS	00	49 49	20 39
20	eP eS	02	08 08	24 43
20	eP e(S)	05	47 49	40 58
21	eP iS	13	01 02	48 23
22	iP iS	11	10 11	27 11
22	iP iS	14	44 44	41 51

Note: All phases from Apia (AA) not Afiamalu (AF)

Apia Observatory,
23rd May, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, -- 58/16



58	MAY 23	eP	07 44 09
		eS	45 08
25		e	16 45(10)
25		eP	16 55 07
		eS	55 34
25		e	16 56 16
25		eP	16 57 23
		e	57(55)
26		eP	12 28 53
		1S	31 13
28		eP	12 33 46
		1S	34 28
29		eP	03 41 34
		eS	43 02
29		eP	15 07 49
		1S	08 10

NOTE: All phases from Apia (AA), not Afiamalu (AF).

APIA OBSERVATORY.

30.5.58

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA -----58/17-----

MAY		eP	04	58	04
		iS		58	50
	31	iP	19	37	04
		i(PP)		38	00
		e		38	52
		eS		41	16
		eLQ		42.	(2)
		e		45	(00)
		i		46	00

Coda for 1 hour
 $\Delta = 23.6^\circ$ ca.

JUNE	3	eP	19	36	26
		e		37	00
		eL		44.4	
		e(L)		48.1	
	4	eP	10	53	04
		iS		53	47

Apia Observatory,
 Apia,
 WESTERN SAMOA.
 6th June, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA.

58/18

ADDITIONAL	MAY 30	eIP	21	23	08
		iS		24	49
			Fiji Is. region?		
CONT.	JUNE 7	eP	10	27	45
		iS		28	10
	8	eIP	00	44	55
		iS		45	20
	9	iP	10	40	00
		iS		40	15
	9	eP	13	22	04
		iS		22	20
	10	eP	01	22	56
		eS		24	26
			Fiji Is. region?		
	11	eP	06	22	01
		eS		22	28
	11	eP	12	44	28
		iS		44	48
	12	eP	18	09	09
		iPP		09	55
		i(PPP)		10	12
		iPcP		11	35
		eS		13	53
		i		14	26
		i(PcS)		15	07
			Deep.		
	13	eP	00	25	02
		eS		25	38
	13	iP	08	55	23
		eS		55	41
	13	eP	14	04	18
		eS		04	40

Apia Observatory,
WESTERN SAMOA.

13th June, 1958.

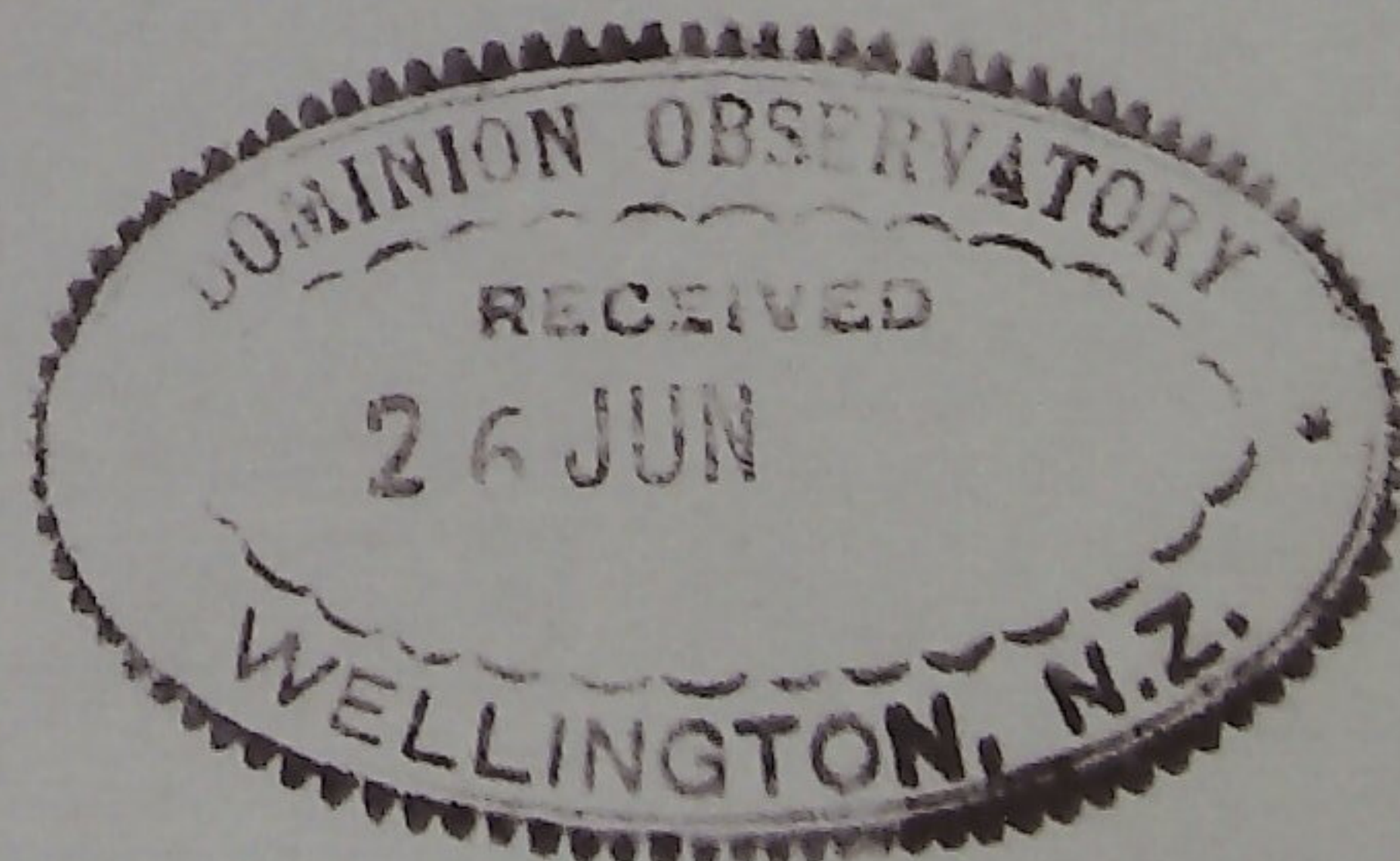
PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA. 58/19.



JUNE. 14	eP IS	12	00 01	54 36	
15	eP IS	02	43 44	14 49	
15	iP eS	14	56 58	33 00	
16	eP eIS	00	57 57	23 40	
16	eP eS	05	47 47	36 55	
16	eP eS	06	39 39	16 3(7)	
16	eP eS eL e i	08	10.6 14 15.5 16 22	05 30 05 52	Weak

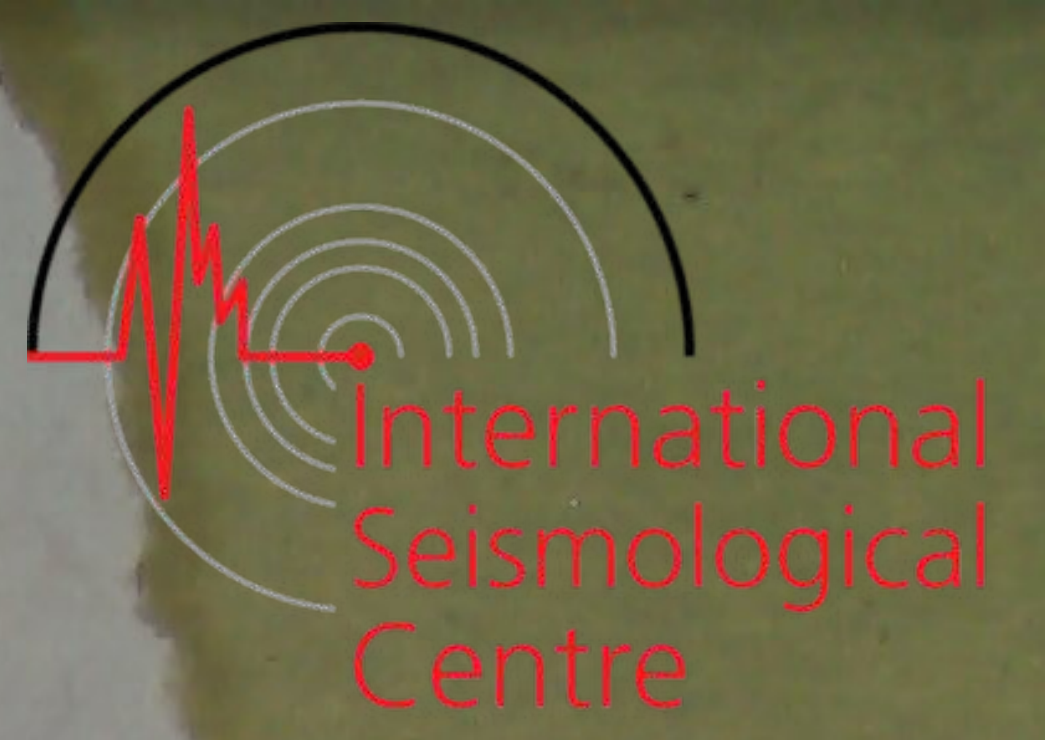
Coda for $\frac{1}{2}$ hour.

17	eP IS	10	49 49	02 22	
17	eP eS	20	01 02	34 00	
18	eP eS	16	35 35	30 49	
19	eP IS	08	54 55	58 23	



Apia Observatory,
WESTERN SAMOA.
20th June, 1958.

02-3 1958

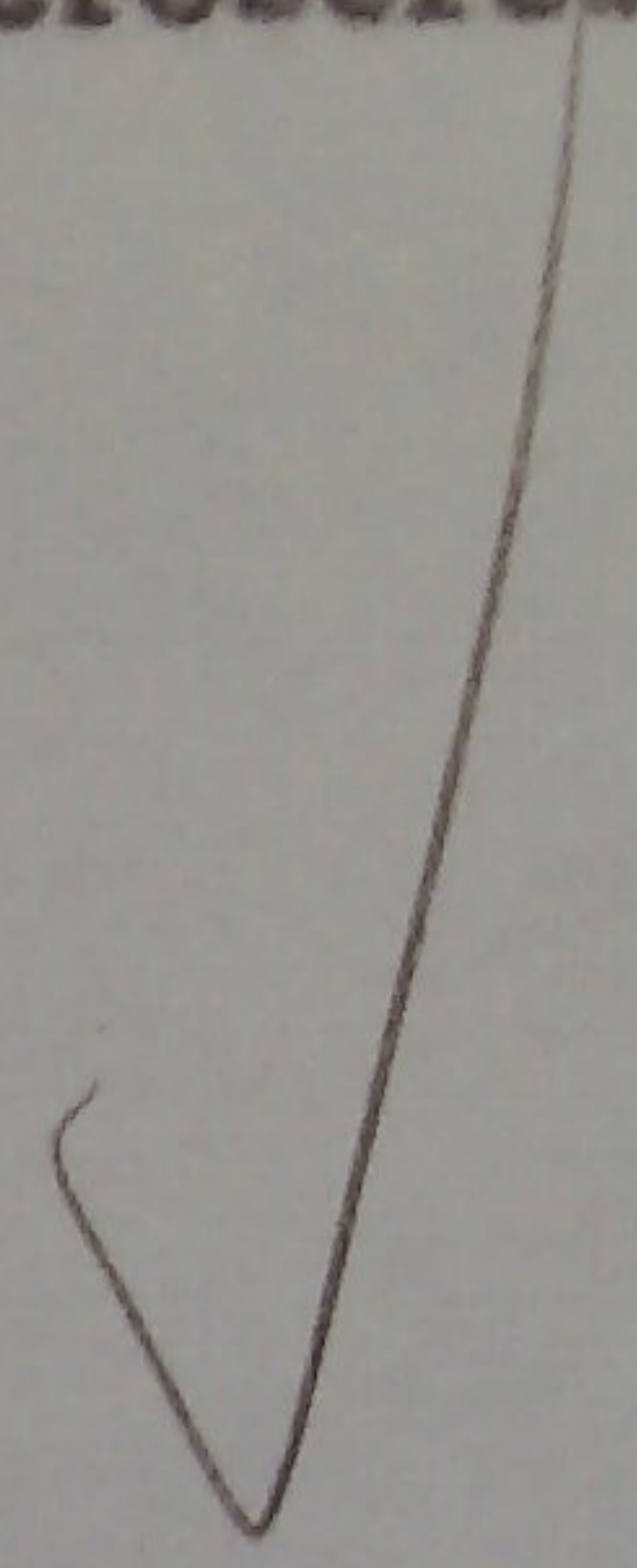


PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA.

58/20.

JUNE 19	eP	21	55	07
	eS		55	40
19	e	21	58	29
20	eP	00	48	29
	eS		49	08
21	eP	02	00.2	
	e(S)		04	(11)
21	eP	16	18	56
	eS		19	15
22	eP	16	43	00
	1S		43	14
24	eP	00	46	(09)
	eS		46	38
25	1P	00	24	38
	i		25	30
	eL		25.8	
	e		27	(35)
25	eP	10	49	36
	1S		50	02
26	eP	15	43	34
	eS		45	07

Confused by microseisms.



Apia Observatory,
WESTERN SAMOA.
27th June, 1958.



PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA.

58/21.

JUNE 29	eP	13	05	13	03
	eS			13	23
29	eP		09	15	22
	eS			15	53
29	eP		12	41	26
	eS			41	58
JULY 2	iP		04	49	46
	iS			51	06
2	iP		16	41	36
	iS			41	55
3	eP		06	31	22
	iS			34	17

Apia Observatory,

WESTERN SAMOA.

4th July, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, WESTERN SAMOA.

58/22.

JULY 4	eP	00	21	50
	1S		22	47
4	eP	00	25	40
	(e)		27	(28)
8	eP	06	08	(21)
	eS		09	(45)
9	1P	13	56	(39)
	1S		58	(21)
10	eP	06	28	0(6)
	1PP		29	2(7)
	e		37.9	
	eL	06	50	
Coda for 1 hour.				

Apia Observatory,

Western Samoa.

11 July, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA.

58/23



JULY 11	e	04	34	54	JULY 21	eP	15	44	29
						1S		44	47
12	eP	06	48	00					
	1S		48	32	22	1P	14	56	29
14	1P	20	44	(26)		1S		58	27
	1S		45	(05)	24	eP	10	50	30
15	eP	00	40	09		1S		50	48
	eS		40	25					
16	eP	06	59	55					
	1S		00	26					
16	eP	23	32	59					
	1S		33	20					
18	eP	05	00	(05)					
	1S		00	(35)					
18	eP	19	50	12					
	eS		50	46					
19	1P	09	19	(06)					
	eS		19	(20)					
19	eP	19	19	(26)					
	1S		19	(46)					
21	eP	08	14	(52)					
	1S		15	11					
21	eP	08	17	50					
	eS		18	26					

Note: All phases from Apia (AA) not Afiamalu (AF).

Apia Observatory,
WESTERN SAMOA.

25th July, 1958.

40
AUG 15 1958



PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/24.

July 25	eP	17	32	23
	eS		32	44
26	e(P)	18	20.4	
	e		22	(05)
	e		24	(01)
	e		29	(41)
	e		30	(42)
Coda for 30 minutes.				
26	eP	21	18	40
	iS		22	09
26	eP	23	24	30
	iS		26	32
27	iP	04	52	(10)
	iS		52	(14)
29	e	10	51	(26)
	eL	10	53	
	e		57	(00)
29	eP	04	00	40
	iS		01	32
Aug. 1	eIP	05	39	07
	iS		40	08
1	eP	15	11	31
	iS		11	51
2	eIP	01	08	(53)
	eIS		10	(42)

AUG. 4	eP	02	21	14
	eS		21	34
4	eP	06	27	41
	iS		27	56
4	eP	09	52	11
	iS		52	33
4	eP	17	30	42
	iS		31	26
5	iP!	01	28	51
	iS		29	12
6	eP	03	16	(19)
	eS		16	40
6	eP	10	13	00
	eS		13	20
6	eP	11	12	16
	iS		12	50
6	iP!	21	09	58
	S		10	31
8	eP	00	28	36
	eS		28	56
8	eP	00	33	39
	iS		33	56

Apia Observatory,

WESTERN SAMOA.

9th August, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA.

58/25.



AUG. 9	eP eS	10	20 55 21 28
9	eP eS	17	56 18 56 36
13	eP IS	20	50 38 51 00
15	e	22	39 (42)
16	eP eS	01	30 (07) 30 (31)
16	eP IS e	11	16 24 18 23 19.5

AUG. 21	eP eS	01	11 34 13 (24)
21	eP eS	02	45 16 47 (08)

Apia Observatory.
22.8.58.

Coda for over 30 mins.

17	eP IS!	01	05 16 05 35
17	eP eS	02	04 30 06.5
17	eP eS	09	05 32 04 22
18	e(L)	04	52.5
20	e(P) e e(L)	03	45 (01) 49 (22) 50.2

Coda for over 30 mins.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA.

58/26.



Aug. 21 eP 21 00 25
s 01 21

Felt Apia ma 1-2
Coda for 15 minutes.

22 eP 10 02 40
s 03 00

23 eP 08 18 40
eS 19 00

23 eP 09 52 20
eS 52 40

24 eP 10 30 34
eS 31 17

27 eP 18 58 (47)
s 59 (07)

27 eP 19 06 (15)
eS 06 (35)

29 e(P) 12 29 18

29 eP 21 19 34
IS! 19 54

30 eP 00 08 28
IS! 09 09

SEPT. 1 31 eP 23 59 47
e 00 01 (44)
e(L) 00 02.5

Coda for 30 minutes

2 eP 15 44 (23)
eS 46 35

SEPT. 2 eP 17 32 51
eS 33 39

2 eP 19 01 48
e 02 14
e 04 08

3 eP 18¹⁷ 00³⁰ (11)²
s 00 30

4 eL 22 34

4 e(P) 23 11 03
e 12 15
e 13 39

Apia Observatory,

WESTERN SAMOA.

5.9.58.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/27.



International
Seismological
Centre

SEI	5	eP eS	04	54 55	35 00
	7	1P 1S	11	41 41	18 38
	9	eP eS	08	09 10	56 16
	11	e(P) 1(S)	23	35.1 42	 01
	12	e(P) e e	02	35.3 39 41	(00) 18
	12	e(P) (e) e(L) e	16	21 23 24 26	(40) 17 08
	12	e	18	22	(15)
	13	e(P) e(S)	03	13 17	(58) (50)
	13	eP eS	03	52 52	23 51
	13	eP eS	17	26 27	42 01
	13	eP S	18	18 19	43 03
	14	eP e1S	00	21 21	06 26

SEPT. 14	eP	01	40	19
	1		41	07
	e(L)		41	54
	e		44	(45)

Apia Observatory,
WESTERN SAMOA.
19th September, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 58/28.



15 i(P)! 19 55 (56)

21 eP 07 50 59
eS 51 39

21 iP 13 29 48
S 30 (18)

Felt Apia mm 2

22 eP 03 57 17
S 57 (50)

22 iP! 19 10 27
e(S) 13 57
i 14 48

27 iP! 13 55 45

Strong local shock
S unreadable.

29 eP 00 04 26
S 04 54

3 eP 12 04 16
eS 06 08

5 eP 05 07 28
eS 07 49

7 eP 11 17 42
eS 19 15

7 i(P)! 12 39 49
eL 49.7 (AF)

NOTE: Unless otherwise specified, all phases from Apia (AA),
not Afiamalu (AF).

Apia Observatory,
WESTERN SAMOA.
9th October, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA. 58/29.

OCT.	8	eP	14	26	41
		eS		27	02
	9	eP	10	04	22
		eS		04	50
	12	1P	09	46	10
		1S		47	04
	12	eP	10	09	31
		eS		11	(51)
	16	eP	15	37	21
		1S		37	40
	16	e	18	06	50

NOTE: All phases from Apia (AA).

Apia Observatory,
WESTERN SAMOA
17.10.58.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 50/30.

1958

OCT. 16	1P eS	22	53	21 59
17	eP 1S	10	25 27	58 28
19	eP S e(L)	01	55 56	07 57 52
19	eP S	01	59	08 50
19	e	02	03	(06)
19	eP S e(L)	02	15 16	13 06 52
19	eP eS	02	19	09 58
19	e	02	23	19
19	1P eS eL	11	47 51 53.2	35 (10)
19	eP eS	15	37 38	25 14
20	1(P)	01	24	13
21	e(P)	02	54	(15)
21	1(P)	06	22	42
21	eP eS	17	36 39	56 44

OCT. 23	1P S	16	45	43 (59)
Felt Apia mm 1				
23	eP eS	19	42 43	46 42

NOTE: All phases from Apia (AA),
not Afiamelu (AF.)

Apia Observatory,
WESTERN SAMOA.
24.10.58.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 58/31.




DATE	TYPE	HR	MIN	SEC	DATE	TYPE	HR	MIN	SEC
OCT. 25	eP	10	08	(04)	NOV. 5	eP	06	52	14
	S			(37)		1S		52	36
25	1	10	11	26	5	1(P)	13	01	24
25	e(P)	12	31	19		1		02	20
25	eP	13	03	44	6	eP	23	09	08
	eS		04	56		1P		10	08
27	eP	15	07	09		1S		18	10
	S		08	52		e(SS)		22	(00)
28	eP	10	00	51		e		26.0	
	eS		01	32		e(LQ)		28.1	
29	eP	00	02	16		eLR		29.4	
	eS		02	58		Coda for 3 hours. <i>Tsunami recorded.</i>			
29	eP	03	26	54	8	eP	07	16	43
	1S		27	24		S		17	02
30	eP	06	40	52	9	eP	08	21	27
	1S		41	33		S		21	47
30	eP	10	06	56	9	1P	11	38	58
	eS		07	10		S		39	31
NOV. 1	e	12	21	18	12	eP	20	34	(10)
1	1	15	54	53		ePeP		34	40
1	eP	19	38	39		eS		43.	(5)
	eS					eLQ		53.3	
3	eP	10	38	(02)	13	eP	02	40	07
	eS		41	(56)		1S		40	25
4	1(P)	23	39	31		Coda for 1 hour.			

Apia Observatory.

14.11.58

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 58/32

NOV.		eP 1	13	58 58	08 34
		e(P)	16	54	(42)
		eIP S	19	54 15	34 55
		eP S	09	56 57	45 12
		eIP S	17	45 45	28 49

Felt Apia mm2.

18	eP	04	55 55	07 32
19	IP eS 1	03 04	58 01 01	35 (34) 51
19	eP S	07	33 33	27 49
19	eP eS	18	³⁸ 37 37	18 44
20	eP eS	07	30 33	41 (10)
21	eP eS	20	27 28	55 17

SEISMOLOGICAL OBSERVATORY
RECEIVED
5 DEC 1958
WELLINGTON, N.Z.

Apia Observatory.
28th November, 1958.

PRELIMINARY SEISMIC READINGS FROM APIA, W. SAMOA, 58/33.

NOV.	eP	13	14	53
	eS		15	21
29	1P	10	39	56
	eS		40	41
DEC. 2	eP	07	12	(01)
	ePP			12
	eS		14	56
	1PeP		16	51
2	eP	07	20	00
	ePPP			30
	eS		22	41
2	eP	10	13	34
	1S			58
4	eP	10	17	58
	i(PF)		18	22
	i(PPP)			28
	e(S)		20.5	
4	eP	17	36	49
	1S		37	24
4	eP	19	39	09
	1S			43

NOTE: Records missing from 29d. 2024 - 01d. 2007 Felt report 01d. 0610 (approx), wa2. Readings from Apia, not Afiamalu.

Apia Observatory,
WESTERN SAMOA.
5.12.58.

PRELIMINARY SEISMIC READINGS FROM APIAMAU WESTERN SAMOA

58/34



DECEMBER	4	1P 1S	21	01	22 42
	6	1P eS	06	23 24	05 35
	7	1P 1S	22	48	17 32
	8	1P S	09	35	02 34
	9	P 1S	17	10 11	(17) On time-break 15
	10	1P eS	03	30	16 50
	10	e		32	12
	10	1P! (ei) 1PcP! eS eLQ	07	08 09 11 12 13.5	00 40 28 30
	12	1P! 1S!	02	19	14 56

Apia Observatory.

WESTERN SAMOA.

12.12.58.

PRELIMINARY SEISMIC READINGS FROM APIA OBSERVATORY, W. SAMOA.



58/35

<u>Apia.</u>				
DEC. 12	1P! S	03	01	32 53
12	eP 1S	03 04	59 00	38 09
15	eP 1 1(s)	05	35 36 37	(45) 02 27
18	1P S	19	24	33 59
18	1P 1S	20	32	10 30
19	eP 1S!	? ²⁰ 21	21 22	53 38
24	eP 1 1	06	34.2 34 38	58 24
25	e	08	12	(48)
26	eP 1S	05	53 55	(39) 35
26	eP eS	14	29	21 45
26	eP eS	18	16 17	54 28
28	eP eS	06	46 48	48 15

<u>Afiomalu.</u>				
DEC. 25	1P	08	12	50
	1PcP		14	02
	e(SoS)		22.7	
	eL		25.1	
	eL		28.5	

Apia Observatory.
WESTERN SAMOA.
31.12.58.