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Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



International Seismological Centre

Apia Observatory,
P.O. Box 52,
Apia,
Western Samoa.

13 January, 1961.

PRELIMINARY SEISMIC READINGS 61/2

NOTE:

Unless otherwise stated, all readings from Afiamalu (AF) not Apia (AA).

JAN. 1	eP?		16	40	18 (AA)	JAN. 6	iP	z	00	01	50 dil.
	e(P)			41	05		ei(S)	z		05	08
	e(S)				49						
2	iP		10	16	36 (AA)	6	iP	zZN	18	10	02
	e(S)			20	49		iS	N			20
	e(L)			21	27	7	iP		18	19	35 (AA)
2	eP		20	10	48 (AA)		S				19
	iS			11	12						
											Felt Apia MM 2
4	eP		13	27	32 (AA)	8	iP	zZN	01	14	04
	e(S)			29	07		iS	N			24
4	eP		16	03	43 (AA)	8	P	z	03	14	48
	eiS			04	13		ei(S)	z		15	56
5	iP	z	05	41	(38) comp?	8	iP	z	07	33	34 dil.
	iS	z		42	(46)		i?	z		35	42
							i(S)	z			46
5	iP	z	14	17	(16) dil.	8	iP	z	10	04	05 dil?
	eS	ZN		25	(53)		(S)	z		06	31
	i	N		26	(22)						
	e(SS)	Z		28	(56)	8	eiP	z	20	18	53
	ei	Z		31	(26)		iS	z		20	32
	i	Z		33	(16) dil.						
	eLr	ZN		35.9		8	iP	zZN	23	53	59 comp.
											Coda about 1 1/2 hours.
5	iP?	z	16	02	12 dil.	9	iP	z	09	46	06
	i(P)	z			14 comp.		iS	z			58
	ei	z		03	01	9	iP	zZ	10	17	46 dil?
	e(S)	Z		08	46		e	Z		22.8	
	e	N		09.6			e	N		24	34
	e(L)	ZN		12.3							
5	iP	z	18	02	16 dil.	9	iP	z	12	48	15 comp.
	i	Z			18		(S)	z		50	50
	i	ZN			21						
	i	N		05	42	9	iP	z	13	34	20 dil?
	i(S)	ZN		05	36 comp		ei(S)	z		35	53
	i	N		06	00 from N						
											Coda about 1 hr.
5	iP	zZ	18	19	04 dil?						
	ei	N		20	20						
	iS	N		22	44						
5	iP	z	19	01	47 comp.						
	eiS	z		03	25						

Geophysics Division

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International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
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Western Samoa.

20 January, 1961.

PRELIMINARY SEISMIC READINGS 61/3

NOTE: Unless otherwise stated, all readings from Afiamalu (AF)
not Apia (AA)

JAN.	10	i(P)	z	05	50	44	
	10	eiP	z	14	33	29	
		eS	ZN		42	36	
		i(ScS)	Z		43	32	comp.
		eSS	Z		47	00	
		eSSS	ZN		50	02	
		eL	ZN		53	44	
	11	iP	zZ	09	37	07	dil.
	11	e(L)	ZN	12	36.6		
	12	iP	z	06	43	29	dil.
		ei(S)	z		44	29	
	12	iP	z	09	30	39	dil.
		(S)	z		33	20	
	12	i(P)	z	15	51	33	
		i(S)	z		53	08	
	14	e(P)		15	25	14	(AA)
		e				31	
		e			26	39	
	15	e(P)		16	48	56	(AA)
		e?			51.6		
	15	e(P)		23	44	38	(AA)
		iS			45	06	
	16	e(P)		14	09	28	(AA)
	17	iP	zZ	23	09	58	dil.
		i	z		10	36	dil.
		ei(S)	N		13	42	
		e	N		14	16	
		e(L)	Z		15	20	
	17	iP	z	23	57	59	comp?
		ei	z		58	42	
	18	eiP	z	05	00	42	
	18	P	z	15	12	28	
		i	z		14	21	comp?
		e	Z		25.2		
		e	N		25	26	
	18	eiP	z	20	53	14	
		i(S)	z		55	15	dil.
		e(L)	Z		56.2		
		e(L)	N		56.5		

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Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory
P.O. Box 52,
Apia, Western Samoa.

27 January, 1961.

PRELIMINARY SEISMIC READINGS 61/4

NOTE: Unless otherwise stated, all readings from Afiamalu (AF)
not Apia (AA)

JAN. 19	iP	z	02	12	12	JAN. 24	iP	zZN	07	29	24dil
	iS	zN			38		e?	N		32	48from
							e	N		35	40 N
19	iP?	z	04	26	00comp	24	i?	z	15	20	13
	iP	zZ			05dil.						
	ei(S)	ZN			30.2	24	iP	z	23	46	41
	e(L)	ZN			31.6		(S)	z		47	58
19	iP	zZ	05	58	40dil.	25	eiP	z	16	46	16
	e(S)	ZN	06	02	34		e	N		47	03
	e	N			04.1		i	Z			11
	e(L)	Z			06.1		e	Z		49	30
19	iP	z	10	08	03		e	N			56
	iS	N			20	25	(P)	z	17	09	53
20	iP	z	17	01	20		(S)	z		13	19
	iS	z			02	25	iP	zZN	17	50	03
	e(T)	z			09		iS	N			22
					57	25	ei(S)	z	22	55	49dil.
22	eP		02	13	55(AA)					58	13
	eS				14						
22	eP		03	01	45(AA)						
	(S)				02						
					15						
22	eP		03	29	13(AA)						
	e				30						
	e				31						
	eS				33						
	e				35.6						
	eL				36.3						
	eL				38.2						
22	eP		05	53	32(AA)						
	iS				51						
22	eP		09	30	21(AA)						
	eS				37						
22	e(P)		16	13	02(AA)						
	iS				31						
23	eiP	z	04	59	28						
24	iP	z	01	07	09dil.						

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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

3 February, 1961.

PRELIMINARY SEISMIC READINGS 61/5.

JAN. 26	iP	z	06	10	50dil?	JAN. 28	iP	z	19	47	23comp?
	i(S)	z		13	38		e	N		51.2	
							i	Z		52	46
26	iP	zZ	13	16	42comp?	29 (P)		z	00	55	12
	i(pP)	zZ		17	29comp	29	iP	z	15	18	23dil.
	i(S)	z		19	08						
26	eiP	zZ	16	17	42	29	iP	zZ	20	35	01
	i	Z		21	10		e(S)	N		36	12
	eS	N		22	32						
	i	Z			47	30	iP	z	16	11	26comp.
26	iP	zZ	18	53	16dil	31	ei(P)	z	06	17	57
	iS	ZN		56	51comp from N.	31	iP	z	13	56	29comp.
	eL	Z		58.2			eiS	z		58	10
26	iP	z	21	23	54comp.						
27	iP	z	00	58	55comp?	FEB 1	iP	z	20	11	09dil.
27	iP	Z	14	51	16dil.		i(S)	z		12	42
	(S)	ZN		56.3							
27	iP	zZ	15	10	18dil.						
	e	N		14.6							
	i	Z		15	51						
28	iP	z	05	16	47dil.						

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FEB 23 1961

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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.
17 February, 1961.

PRELIMINARY SEISMIC READINGS 61/7

<u>FEBRUARY</u>							
9	e(P) e(S)	Z ZN	14	48 53	48 38		
10	iP iS	Z ZN	00	07 08	55 19		
10	i(P) i(S)	Z Z	07	15 17	37 42		
11	i(P) i iS	ZN Z ZN	16	47 48 49	25 22 22		
11	iP ✓ iS eL	ZN ZN ZN	21	04 07 08.5	44 27	dil.	
12	e(P) e(S)	Z Z	06	24 25	16 50		
12	e(P) e(S)	Z Z	06	37 40	38 02		
12	iP ei	Z Z	12	10 14	24 50	dil.	
12	iP	Z	13	00	47	dil.	
12	iP ✓ iS eSS e eLr	Z Z Z Z Z	22	04 13 17.8 21 24	44 44 38 22	dil.	
13	iP (S)	ZN N	06	46	16 55	dil.	
13	e(L)	ZN	17	00.4			
14	e(S) eLr	ZN ZN	03 04	54.6 03.3			
14	eiP i e(S)	Z ZN ZN	15	51 52	48 30 41		
15	eP ✓ eiS	Z Z	06	30 32	17 34		

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International
Seismological
Centre

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

3 March, 1961.

PRELIMINARY SEISMIC READINGS 61/8

NOTE: Unless otherwise stated all readings from Afiamalu (AF)
not Apia (AA)

FEB. 16	iP e	Z N	12	56	14 16	FEB. 22	iP iS eL	zZ z N ZN	21	57 59	05 49 52	dil.
16	eP? e e e(S)	Z ZN Z N	13	28 30 32	34 34 12 46	23	P ei	z z	18	36 39	29 45	
16	iP (S)	 ZN	15 16	58 00	18 18	23	iP eiS	z N	19	42	02 24	dil?
16	e(P) e(S)	ZN ZN	17	22 26	49 50	24	e(P) e(S)		08	19 20	23(AA) 29	
17	eP eiS (T)	z z ZN	00	23 24 28	46 45 39	24	eP eS		08	48 49	30(AA) 12	
17	iP S	zZ z	00	47 48	55 12	24	eP eS		17 18	59 01	30(AA) 11	
17	iP S	z z	02	53 56	38 56	24	iP	z	23	28	27comp.	
18	e?		12	10	18(AA)	24	iP ei	z z	23	57	04comp.	
19	iP iS	zZ ZN	10	31 32	58 17	25	iP ei iS	zZ z N	00	52 53	08 38	dil.
19	iP? i(P) (S)	z z z	10	54 57	25 38 05	25	iP eiS eS	z z N	04	57 59	51 38 45	
19	iP	z	15	02	23 comp.	25	iP eiS eS	z z N	08	27 29	12 23 24	
19	iP	z	16	46	27	25	eiP e i	zZ N Z	15	02 03.5 03	55 52	
20	ei	z	21	01	30	25	iP iS	z ZN	16	44	17 49	
20	iP iS	z N	23	58 59	57 15	25	iP i(S)	z z	17	56 57	32 18	
21	iP iS	z z	01	01	05 34	25	iP i(S)	z z	17	56 57	32 18	
21	ei	z	05	45	39	26	iP S	z z	02 03	58 00	23 00	
22	iP iS	z z	16	31 32	56 42	26	e(S) e(Lr)	ZN ZN	06	06	54	
22	iP iS	z z	19	57 58	09 41				15.1			dil.

PRELIMINARY SEISMIC READINGS 61/8
 (Continued)



FEB.	26	iP	zZ	18	22	05	comp?
		ePP	Z		25	08	
		iS	ZN		31	22	
		(SSS)	ZN		39.2		
		e(Lq)	N		41.5		
		e(Lr)	N		45.5		
	27	iP	z	11	57	17	
		iS	N			53	
MAR.	1	iP	z	02	05	45	
		iS	z		06	32	
	1	iP	zZ	04	26	32	dil.
	1	iP	z	06	19	07	
		iS	N			29	
	1	iP	z	06	43	35	comp.
		i	zZ			40	comp.
		iS	N		45	01	
	1	iP	z	08	16	30	comp?
		ei(S)	z		18	42	

Geophysics Division.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

10 March, 1961

PRELIMINARY SEISMIC READINGS 61/9

NOTE: Seconds unreliable due malfunctioning of time circuits.

MAR. 2	P	z	14	31	42	MAR. 7	i(P)	z	19	52	07
							i(S)	z		54	39
3	iP	z	05	21	40	8	iP	z	00	40	39
	S	z		22	16		iS	zN		41	27
3	iP	zZ	06	29	55	8	eiP	z	08	30	32
	e(S)	N		33	23		iS	z		32	05
	L	Z			59						
3	iP	z	17	03	49	8	iP	z	11	06	20
	iS	N		04	09		iS	zZN			44
3	iP	zZ	21	38	12	8	iP	z	18	22	13
	eS	N			51		i	ZN			37
							i	ZN		24	26
4	iP	zZ	10	34	38						
	iS	N		35	05						
4	iP	z	15	03	03						
	iS	N			25						
4	iP	z	20	05	37						
	ei	z		07	31						
5	iP?	z	01	31	47						
	i(P)	zZ			58						
	e(S)	N		36	10						
	e(L)	N		37.5							
	eL	Z		38.4							
5	iP	z	10	40	50						
	iS	z		42	28						
5	eP	z	21	26	57						
	(S)	z		28	26						
7	P	z	04	10	40						
	ciS	z		11	27						
7	iP	z	08	01	34						
	S	z			54						
7	iP	zN	10	14	06						
	(S)	N		16	46						
	i	N		17	36						
7	iP	z	16	09	38						
	iS	N		10	02						

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

API 37 X



International Seismological Centre
Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

24 March, 1961.

PRELIMINARY SEISMIC READINGS 61/10

NOTE: Unless otherwise stated, all readings from Afiamalu (AF)
not Apia (AA)

MAR. 9	ei?	z	13	32	47	MAR. 16	iP	z	13	56	12comp?
9	iP	z	14	52	30 comp.	16	iP	z	13	59	33
	i	z		53	01		iS	z	14	00	02
	ei	z		54	40						
9	ei(P)	z	20	38	05	16	P	z	20	07	45
	ei	z		41	32		i(S)	z		09	37
10	iP	z	05	15	50	16	iP	z	22	35	41dil?
	(S)	N		16	17		i(S)	z		37	39
10	iP	z	09	26	51	16	iP	z	23	15	12comp.
	iS	N		27	14		i(S)	z		16	54
11	iP	zZN	02	25	58 dil	17	i(P)	z	13	59	(29)dil?
	S	zZN		26	21 from		ei(S)	z	14	01	(16)
					North						
11	eP		08	56	43(AA)	17	iP	z	14	08	(37)dil.
	iS			57	03		iS	z		10	(32)
11	eP		13	02	34(AA)	17	iP	z	16	18	(50)
	S			03	07		iS	z		20	(45)
11	eP		15	43	34(AA)	18	iP	z	06	02	07
	iS			55			S	z			21
12	eP		23	25	07(AA)	18	iP	z	06	41	03dil?
	eS			27	42		ei(S)	z		44	29
13	e(P)		07	46	23(AA)	18	i(P)	z	08	29	33
	e(S)			48	41		i(S)	z		31	26
14	eP		04	19	27(AA)	18	iP	z	09	31	35
	eS			20	13		i(P)	z	09	44	16comp.
							ei(S)	z		46	58
15	e(P)		01	06	27(AA)	18	iP	z	11	38	44
	eS			07	10		iS	zN		39	20
16	iP	zZ	04	33	33 dil.		ei	zN		41	58
	iS	zN		35	53comp						
					from						
					North						
16	iP	z	05	22	22		iP	z	13	17	09
	iS	N			44		iS	z		20	30
							ei	z			
16	iP	z	07	53	55		eiP	z	15	02	56
	iS	N		54	42		e(S)	N		09	20
	(T)	zN		58	42		e(L)	N		12.0	
16	iP	z	11	27	48comp.		iP	z	23	13	40dil.
	ei(S)	z		29	53		ei	N		14	18
							iS	z		16	59

MAR. 18	iP (S)	z z	25	25 27	06dil? 38	Mar. 21	ei(P) ei(S)	z z	14	24 27	31 17
18	iP iS	z z	25	46 47	19comp. 36	21	ei(P)	z	19	59	02
19	iP iS	z z	00	07 08	50comp? 49	22	iP ei(S)	z z	06	36 38	32 23
19	iP S	z N	05	43	10 26	22	i(P) i(S)	z z	08	42 45	19dil? 24
19	iP S	z z	07	16 18	31comp? 26	22	iP ei(S)	z z	18	10 14	59comp? 24
19	e(L)	N	07	23.2		22	iP i ei(S)	zZN z ZN	21	31 33	39dil. 53from 59North.
19	iP iS	zZ z	20	36 38	35dil? 29						
20	iP i i	z z z	03	11 12 14	30 03 43						
20	iP iS	z N	09	41 42	57 15						
20	iP	z	11	10	44dil.						
20	iP	zN	15	52	59comp. from North						
Motion too rapid for S registration.											
20	iP iS	z z	17	03 04	21 19						
20	ei(P) ei(S)	z z	17	51 54	47 39						
20	i(P) ei(S)	z z	18	21 23	10dil? 53						
20	eP e(S) eL		23	45 46 48.2	09(AA) 59						
21	iP iS	z N	02	41 42	58dil. 38						
21	i(P) ei(S)	z z	06	07 09	30dil. 16						
21	i(P) ei(S)	z z	06	27 29	18 20						
21	eiP iS	z z	07	40 42	24 18						
21	iP iS	z z	09	25 26	00comp. 58						
21	iP eiS	zN z	09	45 49	51dil 03						

Geophysics Division.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

7 April, 1961.

PRELIMINARY SEISMIC READINGS 61/11

NOTE:

Unless otherwise stated, all readings from Afiamalu (AF)
not Apia (AA)

MAR. 25	iP	z	09	51	54dil.	MAR. 30	iP	zZ	12	38	45
							iS	N		39	14
24	iP	z	18	13	22						
	iS	N			42	30	iP	z	13	52	46
24	i(P)	z	23	45	43dil?		iS	zN		53	16
25	i(P)	z	14	07	01	30	iP	zZ	15	24	49
							iS	zN		25	07
25	iP	z	14	17	22comp.						
25	P	z	17	06	05						
	iS	N			24						
25	iP	z	20	14	09	APR. 4	e(P)		02	28	32(AA)
	iS	N			27		e				50
25	iP	z	21	59	46	4	e		04	21	23(AA)
	iS	N	22	00	05						
25	iP	z	21	59	46	4	eP		07	49	39(AA)
	iS	N	22	00	05		eS			51	00
26	e(P)		08	16	42(AA)	4	eP		15	36	45(AA)
	e			17	21		eS			37	06
	iS				39						
27	eP		16	33	43(AA)	5	P	z	16	42	34
	eS			36	52		i	z		43	09
							ei	z		45	14
29	iP	z	14	06	33	5	eiP	z	22	13	49
	iS	N			56		iS	z		14	42
29	iP	z	17	06	09	6	iP	z	09	05	31dil.
	iS	N			28		(S)	z		06	59
29	eiP	z	21	29	41	6	iP	zZ	15	37	57comp.
	iS	z		30	00						
30	iP	z	05	28	53						
	eiS	z		29	48						
30	iP	zZ	07	59	46						
	eiS	zN	08	00	03						
30	iP	zZN	08	50	14dil						
	Motion too rapid for S registration Felt: Apia.					from North					
30	iP	z	09	07	35						
	iS	z			55						

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

14 April, 1961.

PRELIMINARY SEISMIC READINGS 61/12

APR. 7	iP S	z z	14	09	15 35		APR. 12	iP	zZ	22	35	09comp?
7	iP eiS	z zN	17	38 40	59 21	dil?	13	iP S	zZ zN	11	07 08	48 08
8	iP	z	04	43	29	dil?	13	iP i ei	zZ N Z	17	13	08comp? 46 52
8	iP eiS	z zN	05	28	15 34		13	ei(P)	z	21	15	03
8	eiP e(S)	zZ Z	16	04 09	11 24							
8	e(L)	ZN	18	40.2								
8	iP? ei	z z	21	45 46	38 06							
8	iP? i(P)	z z	22	31	29 31							
9	eiP	z	07	40	52							
9	i(P) e(S)	z zN	08	47 48	(57) (59)							
9	iP iS	z zZN	09	24 27	39comp? 14comp from N.							
9	iP	z	09	32	23							
10	iP S	zZN zN	08	04 05	47 07	dil.						
10	iP eiS	z zZN	13	30 31	58 18							
10	iP ei(S)	z z	17	42 43	23 57	dil?						
11	iP i(S)	zZ z	00	29 31	(55) (34)	dil?						
12	iP eiS	z zN	06	47 48	44 18	dil.						
12	iP i	z z	12	42	25 47							
12	ei(P)	z	17	13	47							

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Apia Observatory,
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21 April, 1961.

PRELIMINARY SEISMIC READINGS 61/13

APR. 14	ei(P)	z	02	51	56	APR. 18	iP	z	15	18	46	dil.
14	iP	z	03	17	42	18	iP	z	22	16	05	dil.
	iS	N		18	00							
14	eiP	z	07	14	41	18	i(P)	z	23	37	57	comp.
	i	z		15	18	19	(P)	z	02	49	34	
	ei	z		17	27		i(S)	z		50	41	
14	eP	z	19	01	45	19	i	z	02	54	33	
	eiS	N		02	24							
15	ei	z	10	04	30	19	iP	zZ	07	45	39	dil.
							i	zZ			52	
							e(L)	Z		49.2		
15	iP	z	15	30	39	19	iP	z	08	54	03	dil.
	iS	zN		31	14		i(S)	z		56	18	
15	iP	z	16	12	06	19	i(P)	z	16	23	30	comp.
	iS	z			33							
15	iP	z	21	28	07	19	ei(P)	z	16	32	22	
	i(S)	z		29	26		i	z		34	27	
16	ei(P)	z	00	06	06	20	iP	zZN	02	12	18	
	i	z		07	30		iS	ZN			51	
16	ei	z	09	45	13							
16	i	z	11	52	06							
17	i(P)	z	04	39	24							dil.
	iS	zN		40	59							
17	iP	z	07	46	33							comp.
	iS	zN		47	22							
17	iP	z	13	13	54							
	iS	N		14	21							
17	iP	zZ	20	50	28							dil.
	iS	z		52	15							
18	iP	z	01	51	12							
	iS	z			58							
18	iP	zZ	02	39	56							comp.
	iS	N		40	19							
18	iP	z	03	45	55							dil.
18	iP	z	07	02	27							comp.
	eiS	z		03	26							



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Apia Observatory,
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5 May, 1961.

PRELIMINARY SEISMIC READINGS 61/15

APR. 27	iP iS	z	08	52 53	53 comp. 57	MAY. 2	eiP i e	zZ z Z	19	41 42 44	53 57 58
28	iP S	zZ zZ	05	58	10 comp. 50						irregular wave for about 20 minutes.
29	iP S	z z	02	00 01	41 23	2	iP e e	z Z Z	20	53 57.5 59.8	58 comp?
29	iP i e ei	zZ z ZN zZ	05	52	11 comp. 40 43 43	2	iP ei(S) i	zZ zZ Z	22	48 50 51	06 dil. 21 28
29	iP e e(L)	zZ N Z	09	30 40.2 50.2	35 dil.	2	iP ei	z z	23	27 29	20 comp? 38
30	e(L) eL	N Z	11	46.6 46.8		2	eiP ei	z z	25	38 39	37 31
30	iP Motion too rapid for S registration. Movement follows for about 1/2 hr.	zZ	14	48	53 comp.	2	(P) ei i	z z z	23	39 40 41	35 43 54
						3	iP eiS	z z	15	17	04 49
MAY. 1	iP? eiP iS	z z z	03	46 47	22 24 17	3	iP? iP ei(S)	z z z	16 17	57 00	35 comp. 37 dil. 11
1	iP	zZ	16	23	27 comp.	3	ei(P) i	z z	17	06 09	29 06
2	eiP i i(S)	z z z	00	47 48	57 51 56	3	iP	z	17	45	51 comp.
2	i ei	z Z	00	52 53	44 20						
2	iP i? iS	z z z	01	32 34	37 dil. 07 10						
2	iP Motion too rapid for S registration.	zZ	18	51	27 comp.						
2	iP S	zZ z	19	14	11 32						

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12 May, 1961.

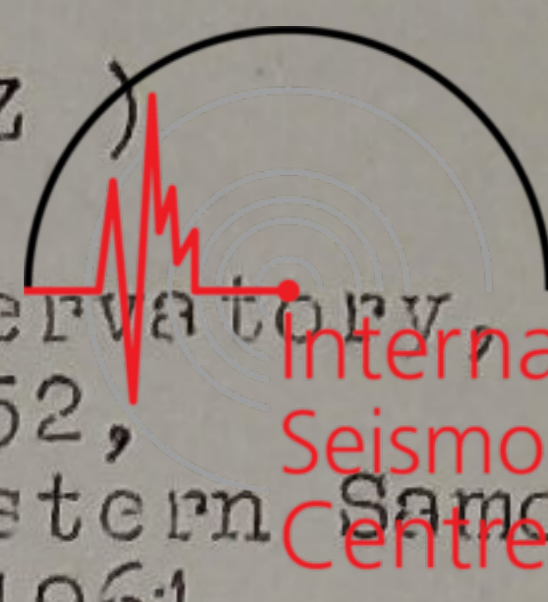
PRELIMINARY SEISMIC READINGS 61/16.

MAY.	4	iP eiS	zZ zZN	03	34 36	59dil 29	MAY 5	ei(P) ei(S)	z z	19	05 08	37 07
	4	eiP ei	z z	07	29 30	20 59	5	iP? ei(P) ei(S)	z z z	20	40 43	32dil 34 02
	4	eiP iS	zZ zZN	08	01 02	47 13	5	eiP i(S)	z z	20	50 52	18 53
	4	ei(P) i	z z	10	31 32	02 21dil	6	(P) ei	z z	11	48 52	43 58
	4	i	z	10	38	24comp						
	4	ei	z	14	01	36	6	iP i e?	zZ z? N	23	17 18 22.6	56dil 04dil
	4	iP S	z z	14	23 24	50 11		i(S)	Z		23	08
	4	ei(P)	z	18	52	30	7	iP e e eL	z Z N Z	00	32 37 40 41	16dil 30 06 13 56
	5	iP i ei	zZ zN z	00	02 03 05	35 07 10						
	5	iP iS	z zZN	04	06	02 22	7	iP i(S) e(L)	z zN N	04	38 39 40	14 comp? 32 13
	5	P i(S)	z z	06	42 44	33 57	7	i(P) i (L)	z z N	04	43 45 45.6	53 45
	5	iP ei	z z	07	30 32	29dil 24						
	5	iP ei	z z	08	47 50	36comp 09						
	5	iP ei e e(L) e(L)	zZ z N Z N	13	46 49 50	41dil? 09 34 52 46						
	5	iP ei(S)	z z	15	32 34	11comp 34						
	5	iP i iS	z z z	16	09 10 12	59dil 01 15						
	5	iP S	zZ z	16	18 19	03comp? 43						

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Apia Observatory
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 Apia, Western Samoa.
 19 May, 1961



PRELIMINARY SEISMIC READINGS 61/17

MAY	7	iP	z	07	02	56	MAY	11	e(L)	ZN	09	19.3
		i	N		05	16						
		iS	N			18		12	iP	z	04	47 52dil?
									i	z		50 30
	7	iP	zZ	07	48	05		13	eiP?	z	10	01 25
		iS	ZN			34						
	7	iP	z	08	33	05		13	iP	z	13	45 09comp?
		i(S)	z			47			ei	z		47 45
	7	ei(P)	z	10	33	22			e	Z		48.5
									e	N		49.6
	7	iP	zZ	12	45	59		13	iP	zZ	14	22 08dil?
		iS	zZN		46	26			i	zZ		23
	7	iP	z	14	58	36comp			i(S)	z		24 37
		ei(S)	z	15	00	13			e(L)	ZN		25.1
	7	iP	z	17	47	42		13	iP	zZN	14	54 50dil
		i	z		48	58			i?	Z		55 38
		i(S)	z		49	02			iS	ZN		56 19
	7	iP	z	22	47	08		13	iP	z	19	29 35dil?
									iS	z		31 08
	8	i(P)	z	08	08	13		14	iP	z	02	46 43dil?
		ei	z		09	44			ei	z		49 14
	8	ei(P)	z	14	28	17			(L)	Z		50.2
		i	z		30	44			e(L)	N		50.7
	8	(P)	z	16	29	18		14	iP	z	08	07 16
		i	z		31	19			iS	zZN		36
	8	iP	zZ	18	42	42		14	iP	z	08	23 09dil
		iS	ZN		43	03			i	z		24 30
	9	iP	zZ	05	30	14		14	i(P)	z	09	14 20
		iS	ZN			35						
	9	ei(P)	z	08	19	19		14	iP	z	12	50 59dil?
		ei	z		21	47			ei	z		52 59
	9	i(P)	z	08	32	41comp?		14	iP	zZ	13	20 53
		i	z		33	18			iS	ZN		21 26
		ei	z			53						
		e	ZN		35.4			14	iP	zZ	13	42 04comp?
									i	z		44 36comp
									e	Z		45 32
									e	N		47.3
									e	Z		47.7
	9	ei(P)	z	09	20	26		15	iP?	z	12	07 36dil
		i	z		22	07						
	10	ei(P)	z	03	15	14		15	iP	z	19	16 55comp
		i	z		16	06			e	N		21.1
	10	iP	zZ	10	05	41			e(L)	Z		22.0
		motion too rapid for S regn.										
	11	iP	zZ	05	28	29comp		15	iP	z	19	54 00
		iS	zZN		29	56			iS	zZN	20	55 50comp
												57 24

over

MAY 16	iP	zZN	12	59	56
	iS	N			56
16	iP	Z	14	25	49
	iS	N		24	03
16	iP	Z	17	10	10
	iS	Z		11	46
16	iP	Z	17	26	14
	ei				34
16	eiP	Z	17	30	55
	i	Z		33	30
	e(L)	Z		34.2	
16	iP	zZ	20	02	10comp
	i(S)	N			31
16	ei(P)	Z	21	56	36
17	iP	Z	00	41	00dil?
	i(S)	Z			53
17	ei(P)	Z	07	24	12
	i	Z		25	12
17	iP	Z	18	25	50
	iS	N		26	16
17	ei(P)	Z	19	40	14
	i?	Z			22comp?
	ei	Z		41	26
	e(S)	ZN		49	04
	e	Z		56.7	
	eL	ZN		59.7	
	coda for about 20 mins.				
17	iP	zZ	20	57	19dil
17	iP	zZN	22	36	14comp
18	iP	Z	10	32	28comp
	ei	Z		35	14
18	iP	zZ	11	06	31dil?
	i	Z			39
	ei	N		07	08
	i	Z			19
	ei	Z		09	14
	e	ZN			23
19	iP	Z	02	24	10dil?
	i	Z			12
	iS	Z		26	50

Geophysics Division,

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
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31 May, 1961.

PRELIMINARY SEISMIC READINGS 61/19

NOTE:

Unless otherwise stated, all readings from Afiamalu (AF)
not Apia (AA)

MAY 25	iP	z	05	20	48	MAY 27	iP	z	17	42	15	comp?
							i	z		44	08	
25	iP	zZ	12	28	27	28	iP	z	04	12	25	dil.
	i	z			45							
25	eiP	z	17	36	06	28	eP		19	31	41	(AA)
	iS	z		37	49		iS			34	03	
25	ei(P)	z	18	43	03	30	iP	z	15	39	05	
	i(S)	z		44	42							
25	iP	zZ	21	08	56	31	iP	z	02	39	34	
												comp.
26	iP	z	07	49	48	31	ei(P)	z	05	16	17	
	iS	N		50	15							
26	iP	z	12	38	04	31	ei(P)	z	13	25	48	
	ei	z		39	36		i?	z		27	54	
							i	z		28	12	
26	ei(P)	z	13	11	21	31	iP	z	17	35	38	dil?
	i	z		12	38							
26	iP	z	13	25	32	31	iP	z	19	23	03	dil.
	ei	z		26	21		i	z			16	
27	iP	zZN	09	49	25							
	iS	zZN			48							
27	i(P)	z	10	54	21							comp?
	ei	z		55	19							
	i	z			40							

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
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9 June, 1961.

PRELIMINARY SEISMIC READINGS 61/20

NOTE:

Unless otherwise stated all readings from Afiamalu (AF)
not Apia (AA)

JUNE 1	iP	z	05	25	56		June 5	e(P)		18	50	01 (AA)
	iS	N		24	17			eS				56
1	iP?	z	25	49	11 dil.		6	iP	zZN	08	12	29 comp.
	i(P)	z			15 dil.			i	N			34
	i	zZ			16			i	N			39
	e(L)	Z	00	15.0				iS	N			53
								Felt: Apia MM 2				
2	e	Z	00	40.0			6	i(P)	z	10	34	21
	e(L)	ZN		49.4								
	Coda for about 10 minutes.											
2	e	Z	01	21.2			6	iP	z	16	25	08
	e	N		21.6				S	zN			28
	(L)	Z		22.6			7	iP	z	06	26	01
	Coda for about 10 minutes											
								iS	zN			38
2	iP?	z	05	05	59 dil.		7	eiP	z	06	34	15
	i(P)	z		06	02 dil.			iS	zN			54
	i	z		08	32							
2	iP	zZ	05	11	02		7	iP	z	14	36	48 dil.
2	ei(P)	z	06	04	46		7	ei(P)	z	15	44	18
2	e?	N	06	28.8			7	iP	zZ	22	55	20 comp.
	(L)	Z		42.0				i	ZN			47
	(L)	Z		45.2				i(S)	ZN	56	00	
2	iP	z	14	40	03							
	iS	N			25							
3	(P)	z	03	44	58							
3	iP?	z	11	30	30							
3	eiP?	z	17	46	02							
3	iP	z	20	35	52							
	iS	N		34	22							
5	e(P)		03	47	34 (AA)							
	e(S)			49	15							
5	eP		10	15	29 (AA)							
	eS				56							
5	e(P)		14	45	18 (AA)							
	eS			44	05							

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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

16 June, 1961.

PRELIMINARY SEISMIC READINGS 61/21.

Note: Unless otherwise stated, all readings from Afiamalu (AF) not Apia (AA).

JUNE.	8	iP iS	zZN ZN	08	55	07 27
	8	iP iS	zZ ZN	09	19	26 59
	8	iP iS	z z	15	45 46	23 57
	8	i(P)	z	15	54	46
	9	iP ei	z z	15	55 56	59 47
	9	iP	zZ	22	48	14
	9	iP ei	z N	23	49 50	43 13
	10	i(P)	z	02	21	53 dil.
	10	iP iS	z zZN	08	33 34	50 37
	10	iP iS	zZ zZN	10	13 14	59 24
	10	ei(P) i	z z	11	13	05 56
	10	e(S) e? e(L) eL	ZN Z Z N	20	49 51 56.8 58.0	53 46
	12	eP iS		15	10	14 (AA) 32
	13	eP iS		21	39 41	57 (AA) 25
	14	i(P)		19	04	17 (AA)
	15	e		01	40	43 (AA)

Coda for about 20 minutes.

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
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Apia, Western Samoa.

23 June, 1961.

PRELIMINARY SEISMIC READINGS 61/22

JUNE 17	i(P) i	z z	02	50 52	41 38		JUNE 20	iP (S)	zZN ZN	05	06	22 38
17	iP eiS	z z	05	00 02	50 06		20	iP iS	z zN	08	11 12	32 20
17	iP i(S)	z z	09	37 40	49 39		20	iP? ei(P) e e(L)	z z N Z	14	31	27 30 35.3 36.7
17	iP iS	z zN	14	26	29 50		21	iP iS	z N	02	19	27 52
17	i(P) i e(L) e(L)	z z Z N	15	35 45.8 47.0	08 48		21	iP i(S)	z z	02	58 59	53 55
17	iP iS	zZ zZ	21	51 53	41 28	dil.	21	i(P) i(S)	z z	06	09 10	15 37
18	iP iS	z zN	12	38 40	51 21	dil.	21	iP iS	z z	06	38 39	54 22
18	iP eiS	zZN zZN	13 14	59 02	14 32	dil.	21	iP i(S)	z z	17 18	59 00	14 18
18	i(P) ei	z z	16	44 46	10 48		21	eiP eiS (T)	z z z	18	15 16 19	14 12 56
18	iP	zZ	16	50	03	dil.						
18	iP iS	z z	19	27 28	39 22							
18	e(L) e(L)	zN Z	22	33.3 34.8								
19	iP eiS	z z	00	49 51	58 54							
19	iP i? i(S)	z z z	06	31 34	57 16 21	dil.						
19	eiP (S)	z zN	12	20 21	56 25							
19	iP iS	zZ zN	22	42	39 59							
20	i(P)	z	03	41	15	comp.						

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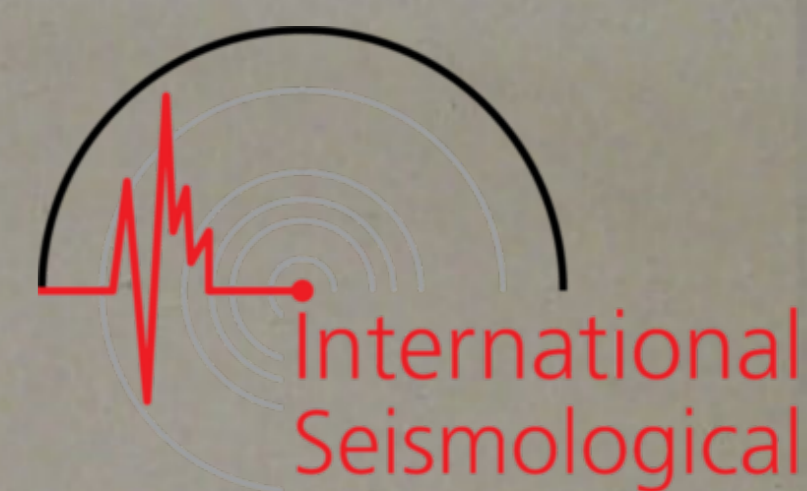
30 June, 1961.

PRELIMINARY SEISMIC READINGS 61/23

JUNE 21	iP	zZ	20	36	42	comp.	JUNE. 24	iP	z	23	24	12
								iS	N			31
22	eP	z	14	20	40		25	iP	z	00	49	10
	iS	z		21	35			iS	z			41
23	e(S)	N	09	24	25		25	iP	z	09	12	00 dil.
	e(L)	N		26.2				iS	z		13	30
	(L)	Z		26.6			25	e(L)	ZN	17	13.3	
23	eP	z	16	04	05		26	iP	z	07	06	08 dil.
	iS	z			31			e(S)	N		11	22
								e(L)	N		12.2	
23	iP	z	17	53	07		26	eiP	z	13	50	46
	iS	z			59			iS	zZN		52	06
23	iP	z	18	27	49		27	e(L)	Z	07	49.4	
	iS	zZN		28	25			e(L)	N		51.2	
24	iP	zZ	03	03	10	dil.	27	iP	zZN	08	10	51
	iS	zN		04	45			iS	N		11	11
24	iP	z	07	27	09		27	iP	z	08	26	59
	i(S)	z		28	01			iS	z		27	24
24	e(P)	z	13	29	28		28	iP	z	00	25	47
	ei(S)	z		30	44			iS	z		26	29
24	iP	z	23	13	21	dil?						

Geophysics Division

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Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

7 July, 1961.

PRELIMINARY SEISMIC READINGS 61/24

JUNE	29	eiP	z	09	27	45	
		i	N			49	
		e(S)	N			32	27
		i	N			34	07
		eL	N			36.0	
	29	iP	zZ	10	26	47 comp.	
		e(S)	N		28	50	
	29	iP	z	17	08	59 comp?	
		i(S)	z		10	59	
	30	iP	z	04	19	59	
		i	N		21	14	
		iS	N			21	
	30	iP	z	06	18	30	
		i(S)	N		19	06	
JULY	1	eiP	z	01	50	03	
		i	z			39	
		i	z			53	37
		1	iP	zZ	10	56	03
			iS	ZN			15
		1	iP	z	13	35	04 comp.
			i(S)	z		36	40
		1	iP	zZ	18	52	52 dil.
			iS	zZN		54	22
		1	e(L)	N	21	12.3	
			eL	Z		12.6	
		2	iP	z	11	45	04 comp.
			iS	zZN		46	04
		2	iP	z	17	39	38
			i(S)	zZ		40	24
	4	iP	zZ	12	11	09 dil.	
		iS?	z		14	13	
		i(S)	z			18	
	5	iP	z	12	07	52	
		i	z		08	25	
	6	iP	z	01	29	47 comp?	
		i(S)	z		31	34	

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Apia Observatory,
P.O. Box 52,
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14 July, 1961.

PRELIMINARY SEISMIC READINGS 61/25

JULY. 6	iP	zZ	05	20	58	JULY. 8	eiP	z	09	04	11
	iS	ZN		21	20		ei(S)	z		06	00
6	iP	z	15	00	52dil?	8	iP	zZ	13	54	56
	i(S)	z		02	29		iS	N		55	21
6	iP	z	20	13	41	8	iP	zZ	15	39	07dil?
	iS	N		14	05		i(S)	ZN		43	03
6	iP	zZ	22	13	53comp.		i(L)	Z		44	28
	i	Z		14	07		iL	N		45	04
	iS	ZN		17	26	8	eiP	z	18	59	23
	i(L)	N		18	38		(S)	z	19	00	40
	iL	Z		19	06						
Coda for about 30 minutes.											
7	iP	zZN	06	47	44	8	iP	zZ	21	18	26comp?
	iS	N		48	07		e(S)	N		22	29
7	iP	z	08	51	35		L	Z		23.7	
	ei(S)	ZN		52	12	8	iP	z	21	31	46
7	iP	zZ	13	18	06comp?		iS	N		32	06
	i	Z		19	56	8	iP	zZ	21	53	11dil?
	e?	N		23	48		e?	N		57	05
	i(S)	Z			57		e(S)	N			29
	e	N		26	58		e(L)	Z		58	30
	e(L)	Z		28.3			eL	N		59.2	
	e(L)	Z		30.3		8	eiP	z	22	14	47
7	eiP	z	14	46	13		i(S)	z		16	04
	i	Z			24	9	iP	z	22	12	55
	eS?	N		49	10		iS	N		13	30
7	iP	zZ	15	26	53	9	iP	z	23	34	22
	iS	ZN		27	12		eiS	N			58
7	iP	zZ	22	23	29dil?	10	iP	z	12	18	48dil.
	i	zZ			36		iS	z		20	30
	e(S)	ZN		27	26	10	ei(P)	z	14	25	19
	eL	Z		28.6			i(S)	z		28	22
7	iP	zZN	22	48	38comp.	11	i(P)	z	03	13	53dil.
	S	N			58						
Felt Apia MM 2.											
8	iP	zZ	02	39	50dil.	11	iP	z	05	48	48dil?
	i	Z		40	17		i(S)	z		51	21
	i	N		42	58	11	iP	z	11	26	01dil?
	i	Z		43	34		iS	z		27	42
	i(S)	N			48	11	iP	z	16	28	46
	i	Z		45	04		eiS	z		30	12
	e(L)	N			18	11	i(P)	z	18	45	27dil?
Coda for about 1/2 hr.											

(Contd)

JULY.	11	iP?	Z	21	18	34
		iP	Z			35
		iS	Z		21	00
	12	iP	ZZ	10	08	24
		iS	N			37
	12	ei(P)	Z	14	41	11



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PRELIMINARY SEISMIC READINGS 61/26

NOTE:

Unless otherwise stated, all readings from Afiamalu not Apia (AA)

JULY 13	iP	z	04	38	31	JULY 18	ei(P)	z	07	33	18
	eiS	zN		39	25		ei(S)	z		35	02
13	iP	zZ	07	19	40	18	iP	zZ	14	14	48 dil.
	eiS	N		20	06		iPP	Z		17	12
	iS	Z			09		iS	Z		23	36
13	iP	z	11	29	05		eS	N			38
	i(S)	z			53		eSS	Z		27	28
13	iP	z	13	47	05comp?		e	ZN		31	28
	S	z		48	32		eLr	Z		34	56
							Coda for over 30 minutes				
13	eiP	zZ	22	12	59	18	iP	zZ	14	35	13 dil.
	i(S)	z		15	20	19	iP	z	10	39	48 dil.
14	eP		10	19	53 (AA)	19	iP	zZ	12	09	55 dil.
	iS			20	14						
15	ei(P)	z	14	05	48	19	iP	z	18	01	55comp.
							i	zN		03	04
15	iP	z	20	35	30comp?		i	Z			38
	eiS	z		37	08		i	z		08	04
							i	Z			45
16	iP	Z	05	24	05comp.	19	iP	z	18	29	21 dil?
	iS	Z		25	09		iS	z		31	30
16	iP	Z	06	48	56comp.	19	iP	zZ	18	44	23
	iS	Z		49	58		iS	Z			43
16	iP?	Z	14	05	50comp.	19	iP	z	18	52	22 dil.
	iP	Z			52		eiS	z		54	08
	eS?	N		08	54						
	e(S)	N		09	16	19	iP	zZ	21	53	08
	(L)	ZN		09.7			iS	ZN			28
16	e(P)	Z	15	35	07						
	iS	ZN		36	06						
16	iP	Z	21	17	06 dil.						
16	iP	Z	23	05	21 dil.						
	iS	ZN		06	50						
17	e(L)	Z	16	51.8							
18	eiP	z	07	20	16						
	i	z			23						
	ei(S)	z		22	48						

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PRELIMINARY SEISMIC READINGS 61/27

JULY 20	iP	z	03	15	51 comp.	JULY 23	i(P)	z	15	33	24
20	iP	z	09	56	18	23	eiP	zZ	15	34	47
	ei(S)	z		57	26		e	N		38	43
							i	Z		39	21
20	iP	zZN	15	12	19 dil.		i(S)	Z			55
	iS	ZN		13	46		i(L)	Z		41	27
20	eiP	z	17	24	35	23	i?	Z	19	07	46
	iS	zZ		26	36						
20	iP	zZN	18	31	17	23	iP	zZN	21	55	37 comp.
	i(S)	ZN			38		i	Z			44
							i(S)	ZN		59	09
20	iP?	z	20	02	20	23	ei(P)	z	22	06	25 comp.
	i(P)	z			26		i(S)	z		07	48
	i(S)			05	37						
20	iP	z	23	01	38	23	iP	z	23	26	44 dil?
	iS	z		02	26						
21	ei(P)	z	07	49	05	23	iP	z	23	50	51 comp?
21	ei(P)	z	07	49	05	24	iP	zZ	01	33	17 comp.
							iS	zZN		35	08
21	iP	zZ	08	25	41						
	i	N		26	03	25	iP?	z	08	53	23
	i	Z			09		i	z		55	17
							i(S)	z			32
21	i(P)	z	13	11	31						
21	iP	z	19	07	32 dil?	25	iP	z	10	03	25 dil.
	iS	z		09	07		iS	z		04	30
22	iP	z	05	23	35 comp	26	iP	z	09	24	19 dil?
	iS	z		25	22		i	z			24
							i(S)	z		28	50
22	iP	z	10	29	25	26	iP	z	12	29	(29) dil.
	iP	zZ			28		i	z		30	(39)
	iS	zZN		30	36		iS	z			(42)
22	iP	z	12	29	44 dil?	26	iP	z	15	14	(03)
	ei(S)	z		31	12		iS	z			(51)
23	iP	z	09	08	39 comp.						
	ei(S)	z		11	20						
23	iP	zZ	14	08	11 dil?						
	e	N		12	23						
	i(S)	ZN		13	26						
23	ei(P)	z	14	21	06						
23	iP	z	14	47	06						

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PRELIMINARY SEISMIC READINGS 61/28

JULY 27	eiP?	z	02	25	22		AUG. 1	iP	z	16	21	47
	i	z		28	01			ei(S)	z		24	09
27	iP	z	08	29	46	dil.	1	eiP?	z	22	15	55
								i(P)	z		16	01
28	iP	z	06	16	23	dil?	1	iP	z	22	54	36
								iS	z		55	00
28	iP	z	12	39	39		2	iP	z	03	13	21
	i(S)	z		40	21			i	z		14	04
								ei	zZ		17	13
28	iP	z	17	00	24		2	iP	z	05	54	32
	iS?	z			58			i	z		55	15
	i(S)	z		01	05			i	z		58	13
28	iP	z	17	21	17	dil.	2	eiP	z	08	49	03
								i(S)	z			47
29	iP	zZ	16	29	54	dil.	2	eP	z	22	05	22
	iS	zZ		31	46			iS	z		06	07
	i	z		32	52		2	ei(P)	z	23	40	32
	i(L)	z		33	25			i(S)	z		42	03
30	i(P)	z	13	23	41		2	i(P)	z	23	42	13 dil.
30	iP	z	14	10	46	comp?						
30	P	z	15	37	57							
	i	z		39	08							
	i(S)	z			12							
	e	z		40	08							
31	iP	z	00	27	46	dil?						
31	iP	zZ	02	16	37							
	iS	z		17	02							
31	iP	z	15	48	15							
	iS	z			41							
AUG. 1	eiP?	z	01	20	00							
1	i(P)	z	01	22	34							
	ei(P)	z			38							
1	iP	z	05	45	36	comp.						
	i	z			41							
	i	z			51							
1	iP	z	07	08	48	dil.						
	i	z		09	32							
1	P	z	07	19	37							
	i(S)	z		21	25							

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PRELIMINARY SEISMIC READINGS 61/29

AUG. 3	iP? i(P)	z z	23	42	40 dil. 42 comp.	AUG. 7	(P) i	z z	17	01 03	15 50
4	iP i(S)	zZN N	09	00 01	46 06	8	iP ei e i i e	z z N Z Z N	00	22 24 25 26 28	15 49 17 36 57 25
4	i(P)	z	18	23	41						
4	L? (L)	Z Z	23	24.7 29.3							
4	iP ei(S)	zZ zZN	23	35 37	19 dil. 43	8	e(L)	Z	08	14.2	
5	iP iS	z Z	00	15	11 32	8	eiP? i(P) iS eSS eL	z z ZN ZN ZN	12	28 29 37 41 47	57 02 38 32 41
5	iP iS	zZ Z	00	45	07 46	9	iP iS	zZN N	00	19	16 36
5	ei(P) i(S)	z z	00	55 56	38 59	9	iP i(S) e(L)	Z N N	16	07 11 12	00 00 29
5	iP? iP iS	z zZ ZN	08	18	21 23 31						
5	i(P) ei	z z	13	20 22	36 dil. 09						
5	iP S	z z	20	49 50	33 00						
6	i(P) i(S)	z z	10	30 32	10 dil. 55						
6	iP iS	zZ ZN	15	48 49	40 00						
6	iP ei(S)	z z	22	03 04	04 04						
6	iP iS	z N	22	07	37 56						
7	iP	zZ	04	33	12 dil?						
7	iP i? i e i(L)	z z z N N	12	25 26 28 30	45 dil. 29 20 50 03						



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18 August, 1961.

PRELIMINARY SEISMIC READINGS 61/50

AUG. 10	iP iS	ZN ZN	06	39 40	10 dil. 47	AUG. 14	iP i ei(S)	z z z	17	01 02	02 05 40
10	e(P) e i	ZN N Z	07	04 05	04 24 28	14	P i iS e(L)	z ZN ZN ZN	18	53 55 56.4	21 on 23 time 14 break
10	e(P) iS	Z N	07	40 41	48 47	14	iP i iS	z z N	21	23	30 47 49
10	iP iS	Z ZN	12	54 55	47 08	14	iP iS	z z	23	10	19 52
11	eiP? iP i eS? e(S)	z z z N N	10	29 33 34	30 33 48 54 58	14	iP i i? e eS i i(L) iL	z z N Z N Z N Z	23	33	05 comp? 19 31 36 36 48 37 28 46 18
11	iP? i(P) i iS eSS i(SSS) eL iL	Z z ZN ZN Z Z N Z	16	02 11 16 19 22.5 22	38 dil. 50 dil. 52 40 05 37 46	15	e(L)	ZN	19	34.8	
11	i(P)	z	19	22	51						
11	iP	zZ	22	48	13 dil.						
12	iP i iS	z z N	06	42 43	51 01 22						
13	iP i	zZN ZN	10	13	18 34						
13	iP ci(S)	zZ z	22	01 03	40 dil. 59						
13	iP iS	zZN ZN	23	43 44	49 10						
14	iP iS	zN N	05	25	35 56						
14	iP iS	z ZN	06	39 40	18 comp. 50						
14	iP iS	z N	08	04	04 30						

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PRELIMINARY SEISMIC READINGS 61/31

AUG. 17	iP?	z	21	27	(14)	AUG. 20	iP	zZ	05	06	09dil.
	iP	z			(16)		i(S)	Z		07	48
	i	zN			(52)						
	iS	N		36	(08)	20	iP	z	20	14	20
	e	N		46.0			iS	z			40
	e(L)	N		47.7							
	eL	N		50.6		21	iP	zZN	02	09	14comp.
							iS	zN		11	15 dil.
18	i(P)	z	01	16	(26)						from
	i	z		17	(01)						North.
18	iP	zN	11	04	(10)comp.	21	iP	z	03	25	46
	iS	zN		06	(26)		iS	z		27	09
19	iP	z	05	22	25comp.	21	iP	zZ	16	08	00
	ei	z		24	28		i	ZN			04
	i	z			43		S	N			48
	i	z		26	31						
19	iP?	z	05	31	39	22	iP	z	09	04	13dil?
	iP	zN		32	07		e?	Z		08.2	
	i	N			40		e(S)	N		08	44
	i	N		33	12		i(L)	Z		09	46
	i	N		35	32	23	iP	z	00	38	37
	e	N		37	22		iS	z		39	24
	e	N		38.7							
	i	z		38	58	23	ei(P)	z	16	49	08
	e	N		44	02		iS	z		50	41
	i	z			42						
	i	N		46	20						
	e	N		51.1							
	e	N		53	56						
	e?	N		57	55						
	e(L)	N	05	02.2							
	eL	N		05.3							
	Three separate shocks?										
	Coda for about 1/2 hour.										
20	i(P)	z	01	34	53						
	e	Z		40	02						
	e(S)	N			10						
20	iP	z	01	46	45						
	iS	zN		47	10						
20	iP	z	01	50	38						
	iS	zN			58						
20	iP'	zZN	02	27	29comp.						
	S	N			59						
20	iP	zZ	02	44	27						
	iS	N			46						



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PRELIMINARY SEISMIC READINGS 61/32

AUG. 24	iP i(S)	z z	04	23 24	06 44	dil?	AUG. 29	e(P) ei	z z	10	07 10	40 18
24	eP iS	z zN	12	33 34	48 23		29	iP	z	10	53	19 dil.
24	iP i	z z	17	32 33	54 07	dil?	29	iP? i(P)	z z	21	38	23 27
24	P eS e(L)	zZ N Z	21	01 05	50 10 40	on time break	30	iP iS	z z	02	23 25	22 37 dil.
25	iP iS	zZ zN	16	05 06	47 20		30	iP i ei	z z z	20	56 59	30 02 10 comp.
26	iP iS	z z	04	44	04 54		30	iP i i(S)	z z zN	22	38	42 52 02 comp?
26	i(P) ei	z z	19	18 21	32 29		31	eiP i(S)	zZ z	00	26 28	07 40
26	iP iS	zZ zZN	20	36	13 33							
27	iP i iS	z zZ zN	06	45	21 25 46	dil.						
27	i? i(P)	Z Z	16	33	23 32							
27	e(L) eL	Z N	16	52.8 54.9								
27	iP i e(S) e e eL	zZ zZ N Z N Z	16 17	56 57 03 06.3 09 11.0	53 18 52 14	dil.						
28	ei(P)	z	06	41	17							
28	iP	z	07	45	04	comp.						
28	iP iS	z zN	09	46 47	06 33	dil.						
28	iP e(L)	zZ Z	20	35 51.7	38	dil?						

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PRELIMINARY SEISMIC READINGS 61/33

AUG. 31	iP	zZ	02	09	45 comp?	SEPT. 4	eP	z	22	31	09
	i	z		10	27		ei	zZN			36
	i	zZ		11	49		i	z			48
	i	Z		13	23						
31	i(P)	zZ	02	13	51	4	ei(P)	z	22	55	20
	i	ZN		19	28		i(S)	z		36	31
	i	Z		21	45	5	P	zZ	00	47	06
							S	N			36
31	iP	z	02	26	18 dil.	5	ei(P)	z	01	00	24
31	iP	z	03	31	47		i	z			52
31	iP	z	03	41	27	5	i(P)	z	01	33	10
	iS	N			41						
31	iP	zZN	03	57	17	5	iP	zZ	11	46	17 dil.
	iS	N			38		e(L)	ZN	12	09.0	
SEPT. 1	iP?	Z	00	23	48	5	i?	z	14	54	42 dil.
	i	Z		27	30	6	iP	z	00	32	57
	e(S)	ZN		33	46		eiS	ZN		33	25
	e	N		36	14	6	eiP	z	00	41	30
	e	Z			48		iS	N		42	01
	e	N		40	38	6	iP	zZ	12	23	04
	e	Z		42	12		i	zZN			38
	i?	Z		47	21		i	zZN		26	15
	e(L)	N		52	05	6	iP	z	17	12	22
1	eiP	z	16	27	02		iS	z		13	16
1	iP	zN	16	38	13	6	iP	z	23	28	54
	i	zN			22		iS	z		29	35
	iS	N		39	20	7	e(P)	z	01	21	26
1	iP	zN	18	43	28 dil.		iS	z		22	50
	iS	zN		45	00	7	iP	zZ	11	51	05
1	iP	z	19	02	58 dil.		iS	zZN			26
2	iP	z	08	28	37	7	i(P)	z	13	57	50 dil.
	iS	ZN			58		eiP	z	18	51	42
2	iP	z	22	25	22		iS	z		52	29
	iS	N			43	7	iP	z	23	04	19 dil.
4	iP	z	02	39	51 dil.		i	z			51
	iS	ZN		40	30		i	ZN		06	39
4	iP	zZN	06	37	29 dil.		i	z			44
4	iP	z	18	43	32						
	ei	z		44	47						
	i	z			53						



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PRELIMINARY SEISMIC READINGS 61/35

SEPT. 14	iP	z	06	10	09	SEPT. 20	iP	z	17	07	24
	eiS	zN			27		iS	z			50
14	i(P)	z	10	46	34	20	iP	z	17	45	40
							iS	z		46	10
14	iP	z	18	47	27 dil.	20	iP	z	18	24	52
	i(S)	z		49	35		i	z		25	26
14	eP	z	19	31	10		ei	zZN		27	22
	iS	zN			52	20	eiP	zZ	19	10	58
14	iP?	z	22	21	44		ePP	Z		12	30
	i(P)	z			52		eS	N		16	50
	ei	zZ		22	06		eSS	ZN		19	32
15	iP	zZ	02	05	53 comp?		e(L)	N		21	30
	i	zZN			57		Coda for about $\frac{1}{2}$ hr.				
15	iP	z	03	18	49						
	ei(S)	z		20	26						
17	iP	z	08	29	56						
	iS	N		30	15						
17	iP	zZ	23	29	46 comp.						
18	iP	zZ	15	41	14 dil?						
	e(S)	N		44	18						
	e(L)	Z		45	16						
19	iP	zZN	18	27	51 dil.						
	iS	zZ		29	42						
	iS	N			48						
19	iP	z	22	30	45						
	i	z		31	39						
	iS	z			46						
20	P	z	06	05	55						
	iS	N		06	15						
20	eiP	z	06	31	43						
	i	z		33	47						
	i(S)	z			51						
20	iP	z	11	57	14 dil.						
	ei(S)	z		59	00						
20	iP	zZ	14	33	12 dil.						
	iS	N			33						



Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.

29 September, 1961.

PRELIMINARY SEISMIC READINGS 61/56

SEPT. 21	iP	z	07	26	08	SEPT. 26	i(P)	z	07	27	20
21	iP	z	13	14	29	26	ei(P)	z	14	12	56
	iS	zN			49						
21	iP	z	13	23	01 dil.	26	iP	z	18	29	46
	ei(S)	z		24	36		iS	N		30	01
21	oP	z	20	12	40	26	iP	z	18	55	13
	iS	z		13	11		iS	z			33
22	e(P)	z	07	44	24	26	iP	z	18	59	25
	e(S)	z		46	05		iS	z	19	00	09
22	iP	z	11	05	02	27	iP	zZN	00	47	41 comp.
							iS	ZN		48	26
22	eP	z	16	06	33	27	iP	zZN	06	35	56 dil.
	ei(S)	z		08	05		iS	N		37	24
23	iP	z	08	19	56	27	iP	z	08	08	19
	ei(S)	z		22	39		eiS	zN			39
23	i(P)	z	08	34	45	28	iP	zZ	01	36	32 comp.
							i	z			48
23	iP	z	09	10	42	28	iP	z	02	54	05
	iS	z		11	15		iS	z			40
24	iP	z	02	05	37						
	iS	z		06	34						
24	iP	z	21	51	35 dil.						
25	iP	zZ	02	21	43						
	S	zN		22	00						
25	e(P)	z	07	12	41						
	i	z		13	05						
	i(S)	z		14	25						
25	iP	zZ	15	55	29 comp.						
	iS	z		57	01						
25	iP	z	22	51	21						
	iS	zN			44						
25	eiP	z	22	59	29						
	iS	z			47						
26	eiP	z	07	15	23						
	i(S)	z		17	24						



Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.

6 October, 1961.

PRELIMINARY SEISMIC READINGS 61/37.

SEPT.	28	e	ZN	04	00.8	
	28	iP	z	11	07	48
		iS	N		08	10
	29	iP	z	11	27	(11)
	29	iP?	z	19	16	(54)
		iP	zZ			(57)
		i(pP)	zZ		17	(16)
	30	iP	zZN	10	55	(06)
		iS	N			(25)
	30	iP	zZ	12	02	(06)
		iS	ZN			(45)
OCT.	1	iP	zZ	21	53	(05)
		iS	zN			(58)
	1	iP	zZ	23	33	(31)
		iS	ZN		34	(05)
	2	iP	zZN	02	22	(10)
		iS	ZN			(31)
	2	eiP	z	07	07	(41)
		e(S)	N		12.7	
	2	iP	z	09	51	(41)
		iS	z		52	(31)
	2	i(P)	z	21	31	(41)
		ei	z		34	(49)
	2	iP	z	21	40	(19)
		eiS	z		41	(55)
	3	e(L)	Z	19	10.7	
	4	iP	zZ	02	28	06 dil.
		eS	ZN		32	06
	4	iP	z	04	17	27
		i	z		18	40
		iS	z			43
	4	ei(P)	z	07	10	17
		i	z		11	58
		i(S)	z		12	02
	4	eiP	z	21	30	09
		i	z			56
		ei	z			02

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

13 October, 1961.

PRELIMINARY SEISMIC READINGS 61/38

OCTOBER						
	5	iP?	z	18	15	05
		iP	zN			08 dil?
	6	iP	z	15	31	21
		iS	N			42
	7	iP	z	10	21	04
		iS	zN			24
	8	iP	z	16	55	43
		eiS	z		56	36
	8	iP	z	19	02	10
		iS	z			29
	8	ei(P)	z	23	47	19
		i	z		51	02
	8	iP	zZ	23	51	47 dil.
	9	iP	zZ	01	39	02 comp.
		iS	z		40	36
	9	i(P)	z	08	01	16
	9	iP	z	08	39	10
		S	z			30
	10	iP	zZN	05	47	16 comp.
		iS	zZN		49	19
	10	ei(P)	z	08	32	29
	10	iP	zZN	18	45	48 dil.
		i	Z		46	34
		iS	N			47
		i	zZ		50	08
	10	iP	z	18	58	22
		iS	z			45
	11	eP	z	00	35	04
		eiS	z		35	41
		e(T)	z		45	53
	11	iP	zN	06	19	30
		iS	N			48
	11	ei(P)	z	09	03	06
	11	iP	z	16	07	08 comp.
		eiS	z		09	15
	11	iP	z	16	42	41
		iS	z		43	13

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

20 October, 1961

PRELIMINARY SEISMIC READINGS 61/39

OCT. 13	iP	z	02	21	47	dil?	OCT. 18	eiP	z	07	05	(28)
								iS	z		07	(45)
13	iP	z	04	47	42							
13	iP	zZN	08	35	49	dil.	18	e(P)	z	16	23	(55)
	iS	ZN		36	14			i(S)	z		26	(11)
13	eiP	z	17	30	32		18	iP	zZ	17	05	(12) dil.
	i	z			34			i	Z		06	(03)
	iS	N		32	11			eS	ZN		15	(50)
	Movement follows for several minutes.							eSS	ZN		21.7	
								eL	ZN		33.2	
								Cođa for about $\frac{1}{2}$ hr.				
14	iP	zZ	02	09	19		19	iP	z	11	02	06 dil.
	iS	ZN			36			i	z			45
14	eiP	z	11	26	08		19	iP	zZ	20	25	45
	ei(S)	z		28	29			iS	ZN		26	22
14	iP	zZ	14	26	33							
	iS	ZN			55							
14	i(P)	zZ	16	18	20	dil?						
15	iP	z	01	48	45							
	iS	z		49	05							
15	iP	z	04	06	43	dil.						
16	ei(P)	z	00	11	21							
	ei(S)	z		13	27							
16	iP	z	03	29	28	comp?						
	eiS	z		30	40							
16	eiP	z	11	11	21							
	iS	z		12	09							
16	iP	z	20	58	20	dil.						
	e(S)	z	21	00	26							
16	iP	z	21	27	17							
	ei(S)	z		28	41							
18	eiP	z	06	39	(21)							
	S	N			(44)							

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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
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27 October, 1961

PRELIMINARY SEISMIC READINGS 61/40

OCT. 20	eP	z	06	12	28	OCT. 23	iP	zZ	14	50	08dil?
	eS	z		14	34		e(S)	ZN		58.7	
							e(L)	NZ	15	06.2	
							eL	Z		09.5	
20	iP	z	08	16	01	23	iP	z	15	03	01dil.
	iS	z			46						
20	iP	z	11	52	38	23	iP	zZN	17	12	48comp.
	iS	z		53	00		S	ZN		13	23
20	e(P)	z	18	31	34	23	iP	zZ	19	22	57dil.
	e(S)	z		33	04		iS	zZN		24	30
21	iP	zZ	11	45	52 dil	24	iP	z	07	38	40dil.
	eiS	N		47	22		eS	ZN		40	50
	iS	zZ			31	25	iP	zZ	09	07	32dil.
21	ei(P)	z	16	46	06	25	eP	z	11	35	39
	e(S)	z		47	42		S	z		36	31
21	iP	zZ	17	38	13comp?	25	i(P)	z	11	40	32
21	eiP	z	23	00	04		i	z		41	07
	i(S)	z		02	02	25	i(P)	z	12	54	01
22	iP	zZ	09	54	06 dil?	25	eP	zZN	14	21	57
	i	zZ			17		eiS	ZN		23	06
	eS	ZN		57	12		eL	ZN		24	04
	e(L)	ZN		58.2		25	iP	z	20	19	31
22	i(P)	z	14	26	36	25	eP	z	22	39	42
22	iP	zZN	14	42	57 dil.		iS	z		40	49
	S	ZN		44	37		eL	N		42	14
22	iP	z	17	22	37	26	iP	zZ	00	46	14dil.
	i(S)	z		24	14		i	Z		48	24
22	iP	z	18	44	48		eS	N		55	34
23	e	ZN	00	56.6			e	N		57	58
	e(L)	ZN		58.7			e(L)	N	01	00.3	
23	eP	z	11	45	08						
	iS	z			40						



Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
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3 November, 1961.

PRELIMINARY SEISMIC READINGS 61/41

OCT. 26	eP i iS	z zN ZN	02	31 32	32 00 03	OCT. 31	iP iS	z ZN	19	01	14 54
26	e(P)	z	11	15	50	NOV. 1	iP iS	z zN	07	02 03	48 18
26	iP	zZ	15	40	04 comp?	1	iP i(S)	z z	10	44 45	14 comp? 46
26	i(P)	zZ	15	46	07 dil.						
27	iP iS	Z Z	05	03	10 30	1	iP ei(S)	zZ z	20	12 14	38 dil? 10
28	iP iS	z z	01	36 38	51 comp. 21						
28	iP	z	06	05	26						
28	i(P)	z	06	24	34 dil.						
28	iP iS e(T)	z z z	09	24 25 30	07 comp. 15 13						
28	eP ei(S)	z z	18	20 22	40 13						
28	eiP i e(S)	zZ Z zZN	22	49 53	18 38 17						
28	ei(P)	z	22	56	59						
29	e(S) e	N N	09	42 45.6	25						
29	iP iS	zZ zZN	17	29 30	23 08						
30	e(P) e(S)	z z	15	04 07	15 10						
30	eP iS i e(T)	zZN N z z	17	38 41 45 49	35 20 08 06						
31	iP i(S) e(T)	z z z	03 04	49 52 06	48 53 50						

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
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Apia, Western Samoa.

10 November, 1961.

PRELIMINARY SEISMIC READINGS 61/42

NOTE: Unless otherwise stated, all readings from Afiamalu (AF)
not Apia (AA).

NOV. 2	iP iS	z z	05	24 26	36 dil? 13	NOV. 7	e(P) eS		12 20	18 37	16(AA)
2	i(P)	z	17	22	32	8	eP iS		18	06	20(AA) 44
3	iP iS	zZ ZN	18	23 24	57 13	9	iP	Z	01	13	34 dil?
3	iP eiS	z z	18	44 45	31 comp? 44	9	iP iS	z ZN	09	19	33 54
3	iP eiS e(T)	z z z	21	07 08 13	23 comp? 31 42	9	iP iS	zZ zZN	10	46 47	57 30
3	iP i(S)	z z	22	05 07	50 56	9	iP	zZ	18	46	59 comp.
3	ei(P)	z	22	20	02						
4	iP iS	zZ N	02	04	19 42						
4	iP?	Z	12	25	49						
4	iP iS	z z	12	38	12 36						
4	i?	Z	19	48	57						
5	iP eiS e(T)	z z z	13	08 10 20	07 24 58						
6	eiP i i eS eL	Z Z Z N N	05	33	03 15 51 37 41.1						
6	eP iS		18	53	10(AA) 45						
7	e(P) eS		00	42 44	27(AA) 16						



Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

17 November, 1961.

PRELIMINARY SEISMIC READINGS 61/43

NOV. 9	iP iS	zN N	23	07 08	55comp. 40	NOV. 14	i(P) e? e	z N z	08	02 05 06	40comp. 08 02
10	ei(P) eS e(T)	z N z	12	01 02 32	32 06 20	14	iP i	z z	12	06 09	22dil. 25
10	ei(P) i(S)	z z	09	41 42	11 23	14	iP e(S)	z N	13	04 06	45 26
10	eiP e(S) e(T)	z z	12	51 52 58	39 47 02	14	iP iP	z zZ	15 17	22 26	54comp. 29comp.
10	iP iS	zZN ZN	18	02 04	43dil. 09	14	i(P) i	z z	23	31 35	34dil. 06
10	iP	z	22	20	11	15	iP i iPP	zZ z Z	07	28 29 30	22comp. 09 47dil.
11	iP iS	z N	04	50	24 44		eS eSS e(SSS)	ZN Z Z		37 41 44.0	16 15
11	e(P) ei(S)	z z	10	51 52	06 57		eL eL	N ZN		45.6 48.3	
12	i(P) ei	z z	01	03 06	31dil 58					Coda for 1/2 hr.	
12	iP eS e(T)	zZ N z	14	12 13 15	01comp. 16 46	15	e	z	08	43	08
						15	iP iS	zZN ZN	13	42	05dil. 24
12	iP i iS	zZ z z	18	15 17	01dil? 10 12	15	eiP eS	z ZN	19	28 31	51 06
										Coda for 1/2 hr.	
13	iP S	z z	03	06	28 52	15	eP iS	z NZ	20	07	18 42
13	eiP iS e(T)	z ZN Zz	12	21 22 24	50 20 11	16	eP ei e	z z z	01	43 44 48	41 39 15
14	iP ei(S)	z z	02	20 23	58dil. 21						
14	iP? iP eS e(T)	z z N z	07	39	47comp. 52dil? 36 20						

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

24 November, 1961.

PRELIMINARY SEISMIC READINGS 61/44

NOV. 16	eP eiS	z z	07	04 07	56 46	NOV. 19	iP i	zZ z	23	32 31	25
16	eP iS	z z	07	27 28	53 15	20	iP eS e(T)	z N z	02	47 48 50	33comp? 22 59
16	iP i e eS	zZ Z N Z	16	07 08 11	34 01 00 30	20	ei(P) e	z z	02	53 56	27 52
16	iP iS	zZ N	17	09 10	21dil. 15	20	iP eS (L)	zZ NZ Z	11	48 52 53.6	42dil 30
16	iP iS	z N	21	46 47	50 11	20	iP i	zZ zZ	13	08	27dil? 36
17	iP eiS	z z	08	15 17	44 13	20	P i	z z	18	56	00 07
17	iP iS	z zZN	09	04 05	48 10	20	iP iS	zZ z	23	30 32	50dil. 01
17	iP i iS	zZ Z Z	19	05 06	30dil. 42 47	21	iP iS	zZN ZN	00	56	28 46
17	iP	zZ	19	46	49comp.	21	iP	z	07	22	47
18	eiP i iS e(L) e(T)	zZ z z ZN z	11	20 22 24.2 32	02 15 28 24	21	iP iS	zZ ZN	08	09	27 46
18	iP iS	z z	11	49 51	56dil? 17	21	iP i iS	zZ z z	18	02 04	47dil 32 38
18	iP iS	z z	15	37 39	27 34	22	iP? i(P)	z z	02	49	48 51
18	iP S	z z	18	04 05	46 06	22	iP iS	zZ ZN	11	06	25 48
18	iP iS	zZN N	18	16	10 30	22	i(P) i	z z	11	11	02 10
19	iP iS	z N	14	06	02 23	22	eP	z	15	08	02
19	iP eiS	z z	15	37 38	14 10	22	iP eiS	z z	20	42 44	19 42
19	eP iS ei(T)	z N ZN	18	27 29	01 27 05	22	i(P) i	z z	20	55	13 47



Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

1 December, 1961.

PRELIMINARY SEISMIC READINGS 61/45

NOV. 25	iP	z	07	19	51	comp?	NOV. 28	iP	z	14	19	51
	iS	z		20	25			iS	zN		20	14
	ei	z		23	09							
23	eiP	z	15	28	19		28	iP	z	15	44	11
	eiS	zZN		29	16			iS	z			33
23	iP	z	17	01	18	dil.	28	iP	z	19	56	35
	ei(S)	z		03	14			eiS	z			57
24	iP	z	00	20	06	comp.	29	iP	z	22	00	04 dil?
24	iP?	z	00	26	47	comp.	29	i(P)	z	23	21	37 dil.
24	iP	z	05	03	40		29	iP	z	23	47	45 dil.
	eiS	z			58							
	e(T)	z		05	40		30	iP	z	01	36	55
24	iP	z	12	41	12			eiS	zN		37	23
	iS	zN			48			e(T)	z		39	11
25	iP	z	02	21	12							
	iS	z			52							
25	iP	z	06	20	06	dil?						
	ei(S)	z		21	37							
25	i(P)	z	10	29	12	dil.						
25	ei(P)	z	14	17	55							
25	iP	zZ	22	56	55	comp.						
	eiS	zN		58	28							
	e(T)	z	23	05	42							
26	iP	z	21	30	37	dil.						
26	iP?	z	22	37	18							
27	iP	zZ	17	20	55	dil.						
	i	z			59	dil.						
	e(S)	N		29	24							
	e?	N		30	58							
	e(L)	N		35.4								
27	iP	z	18	24	49							
	iS	zZN		25	30							
27	iP	z	00	39	02							
	ei(S)	z		40	30							

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O.Box 52,
Apia, Western Samoa.

8 December, 1961.

PRELIMINARY SEISMIC READINGS 61/46.

NOV. 30	i(P) e(S)	z N	14	18 23	28 31	comp?	DEC. 5	i(P) ei(S)	z z	00 11	07 11	33 01
30	eiP eS	z N	17	36 35	18 35		5	iP	z	07	18	55dil.
30	eiP	z	18	31	58		5	iP iS	z z	10	31	11 44
30	iP	zZ	20	05	26	comp.	5	iP	zZ	13	06	49dil?
DEC. 1	iP eiS	z z	20	05 39	55 32	comp?		i i ei e(PP) i e(S) e e(SS) i(L)	z z Z N N N N Z		07	12 23 16 30 17.7 18.2 24.3 35
1	iP e? e(L)	zZ z N	21	24 33.7 43.9	17	comp.		Coda for about $\frac{1}{2}$ hr. interpretation doubtful.				
2	i(P)	z	11	50	17	dil.						
2	iP ei(S)	z z	15	55 57	45 24	comp.						
2	eiP eiS e(T)	z z z	18	47 49 56	55 34 32		5	i(P)	zZ	13	14	19dil.
3	iP	z	07	53	53		5	iP eiS	z zN	18	39	23 43
3	i(P) ei(S)	z z	08	24 35	55 59		5	ei(P) ei(S)	z z	22	41	24 12
3	iP ei(S)	z z	09	08 10	46 55	comp?	5	iP iS	zZ ZN	23	18 19	54 15
3	iP iS	zZN zZN	15	57 58	38 08	comp.	5	iP eiS	z z	23	54 55	59 54
3	eiP iS e(L)	zZ Z Z	16	19 23 24.7	16 22		6	iP iS ei(T)	z N z	00	10 11 12	42 00 28
4	eiP iS e(T)	z z z	00	55 57 06	22 29 43		6	eiP iS	z N	10	45 46	20 04
4	ei(P)	z	01	09	49		6	iP eiS	z z	13	02 04	57dil. 15
4	iP eiS	z z	08	25 27	09 23	comp.	6	iP i iS i i(L) (T)	zZ z ZN N Z z	13	38 39 40 46 41 48	10 58 03 46 19 26
4	iP iS	z z	10	21 24	13 03	dil?						
4	iP i i	z z z	17	13 14 16	46 19 34		6	i(P) ei	z z	13	45 46	02dil? 47

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Apia Observatory,
P.O.Box 52,
Apia, Western Samoa.



15 December, 1961.

PRELIMINARY SEISMIC READINGS 61/47.

Correction to A/L 61/45. Date of earthquake

iP 00 39 02
ei(S) 40 30

should be Nov. 28, not Nov. 27. DEC. 9 iP zZN 19 52 08comp

DEC.	Time	Station	Phase	Time	Time	Time	Phase	Time	Time	Time	Notes
7	05	ei(P)	z	52	36			19	52	08	comp from N.
		i(S)	z	54	28		i N			10	
							eiS zZN		54	05	
7	08	iP	zZ	17	38	dil?					
		iS	z	20	24		9 iP z	21	44	10	
							ei(S) z		45	57	
7	11	ei(P)	z	26	19		9 iP z	22	46	19	dil
		(S)	z	28	57						
7	14	eiP	z	26	23		10 eiP z	07	51	44	
		ei	z	28	07		eiS z		52	13	
		iS	z		11		e(T) z		54	04	
7	16	iP	z	01	01		10 iP zZ	16	51	31	comp.
		iS	N		21		eiS ZN			55	
7	16	iP	z	31	39	dil.	10 P zZN	22	51	14	
		eiS	z	33	28						in time gap.
		e(L)	Z	34.8			eiS N			19	
							Felt Apia MM2.				
8	03	iP	z	48	51	dil.					
		iS	z	50	38		11 iP z	03	53	03	
							eiS z			55	
8	09	iP	z	45	17	comp.					
8	14	iP	z	45	09	dil?	11 iP z	05	12	37	comp?
		iS	z	46	59		ei(S) z		15	37	
8	15	iP	zZ	29	30		11 iP zZ	23	31	58	
		iS	ZN		56		iS N		32	20	
9	02	e(L)	ZN	48.5			13 iP zZ	03	05	40	dil.
9	04	eiP	z	30	56		13 iP z	13	11	11	
		i	z	31	21		iS zN			30	
		ei	z	34	58						
		e(L)	Z	43.2			13 iP z	16	54	25	dil.
							e(S) N		57.8		
9	04	iP	z	27	24	dil?	13 iP zZ	21	51	41	
		eiS	z	49	03		S zZN		52	07	
		e(T)	z	54	41						
9	11	eiP?	z	08	48						
		(P)	z	09	02						
		i(S)	z	10	46						
9	11	iP	zZ	30	43	dil?					
		i	z		45						
		ePPP	Z	36	14						
		eS	ZN	41	20						
		eSS	ZN	46.4							
		e(Lq)	ZN	53.4							
		eLr	ZN	56.6							

Coda about 20 minutes.

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.

22.12.61.

PRELIMINARY SEISMIC READINGS 61/48

DEC. 14	eiP	z	04	41	49	DEC. 16	iP	zZ	20	39	03 dil.
	iS	z		43	00		i	z		41	45
	e(T)	z		48	27		eiS	z			53
14	eiP	z	06	44	09	16	iP	zZ	21	16	25 comp.
	eiS	zN		45	02						
14	P	zZ	07	19	02 on	17	iP	zZN	01	54	04.
	e(S)	N		25.9	time		iS	N			27
	e?	N		33.2	break						
	eL	ZN		35.3		17	i(P)	z	08	19	49 dil.
14	iP	z	15	31	50	17	iP	z	22	21	36 comp.
	ei	z		32	21						
	i	z			28	18	eiP	z	22	26	40
14	eiP	z	18	50	54		eiS	zN		27	59
	iS	z		52	28		e(T)	zN		34	02
14	iP	zZ	23	29	11 dil.	18	iP	zZ	22	48	24
	iS	z		31	40		iS	ZN			57
15	eiP	z	01	17	52	19	iP	z	15	29	00
	ei	z		18	36		iS	N			20
	i	z		21	25	19	iP	z	22	24	23 dil.
15	iP	z	07	55	53		i(S)	z		26	40
	iS	N		56	15	20	ei(P)	z	10	10	17
15	eiP	z	08	47	41 comp?		ei(S)	z		12	00
	eiS	z		49	11	20	iP	z	13	38	55 comp?
15	iP	zZ	12	44	00 comp.		i	z		39	42
15	iP	z	15	18	33	20	e	Z	13	52	10
	iS	ZN		19	11		e?	N	14	05.5	
15	iP	z	16	38	37 dil.		L	Z		10.7	
	i	z		41	07		eL	ZN		12.7	
	ei(S)	z			12						
15	iP?	z	17	25	11						
	ei(P)	z			14						
	ei(S)	z		26	42						
16	iP	z	01	54	29						
	iS	z			55						
16	eiP	z	09	20	08						
	eiS	zN		22	26						
16	iP	zZ	10	01	40						
	eiS	z		03	29						
	e	ZN		04.1							
	e(T)	z		12	34						

