

JAN 18 1971

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Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
8 January 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/1

Dec. 31	e	N	06	06	12	Jan. 4	eP	Z	19	13	34
	e	Z		09	20		S	ZNE		14	09
							T	ZNE		16	40
Jan. 1	eiP	ZNE	08	06	35						
	eS	ZNE		13	27	5	eL	ZE	05	38	32
	e	ZN		16	36						
	e	NE		18	28	6	eL	ZNE	06	35	00
	eL	Z		20	58						
1	eP	Z	08	33	39	7	iP	ZNE	05	34	57
	S	ZNE		35	14		S	ZNE		35	23
2	e(P)	ZN	05	02	22	7	eP	Z	13	11	51
	(S)	ZNE		03	41		S	ZNE		14	05
3	(P)	ZNE	05	43	49						
3	iP	Z	05	29	18.7						
	eS	ZN		34	00						
	e	ZE		35	04						
3	e(P)	Z	17	53	16						
	e	E	18	02	32						
	e	ZN		04	15						
	e	N		09	16						
	e	ZE		10	07						
	e	ZNE		14	20						
	e	ZE		17	16						
	eL	ZNE		21	00						
	L	ZN		26	56						
4	eS	ZNE	04	17	12						
	eL	ZNE		25	08						
4	eP	ZNE	07	05	14						
	S	ZNE		06	43						
4	e	Z	14	12	36						
	e	E		13	44						
	eL	ZN		16	00						
4	eiP	ZNE	15	44	41						
	iS	NE		45	23						
4	eiP	ZNE	16	03	20						
	ei(S)	ZNE		06	03						

Seismograms interpreted
by I. Anapu

P.D. Muller
OBSERVER-IN-CHARGE

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
15 January 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/2

Jan.	8	P S	ZNE ZNE	04 47 48	02 31	Jan.	10	iP Z Compression	14 46 07
	8	iP Dilatation S	Z ZNE	10 59 54	34.3		10	iP Z Compression S NE e N eL ZE	16 16 34.4 23 38 29 08 31 32
	8	eS e eL	ZNE E ZN	15 05 10 16	36 12 08		10	eP ZNE eS NE i N L ZE	16 47 19 54 28 57 20 17 02 36
	9	No Readings							
	10	eiP S	ZNE ZNE	01 12 14	47 01		10	eP Z	17 20 30
	10	e?	E	02 48	02		10	eP Z	18 19 57
	10	e(L)	ZNE	03 43	40		10	eiP Z	19 14 11
	10	iP Compression i iS	ZE ZE ZNE	07 25 26 32	50 03 56		10	eiP Z	19 22 23
		Very large amplitude					10	eP Z	19 43 05
	10	iP Compression i	Z Z	07 52 53	34 24.2		10	eP Z	22 23 22
	10	iP Compression	Z	07 52 34			10	eP Z	22 23 22
	10	iP Compression	Z	08 02 40			10	eP Z	23 33 31
	10	eP e	Z ZNE	08 53 20 55	28		11	eP Z	07 56 03
	10	eP Z	ZNE	08 53 20			11	eiP Z Compression S ZNE	21 05 25.2 07 03
	10	eP ZNE	ZNE	10 12 50			11	iP ZNE Dilatation S ZNE	21 58 08 47
	10	eP ZNE	ZNE	10 53 53			12	iP Z Dilatation S ZNE	06 56 16.5 57 04
	10	iP Dilatation S	Z ZNE	12 53 29 54	11		12	iP Z Dilatation S ZNE	10 15 22.5 16 52
	10	eP eS e eL	Z ZNE N ZE	14 38 43 45 56 51 52 53	24		12	eP Z	15 05 54

Jan.	12	eP	Z	15	54	23
	13	eiP	ZNE	02	22	44
		S	ZNE		23	16
	13	e	N	04	18	24
		eL	ZN		21	28
	13	iP	Z	04	55	08.5
		Dilatation				
		S	ZNE			34
		T	ZNE		57	28
	13	e(L)	ZN	05	30	04
	13	iP	ZNE	06	14	18
		Compression				
		S	ZNE		15	32
	13	iP	Z	10	31	35.4
		e(S)	ZN		39	00
		e	N		47	48
		eL	Z		50	12
	13	eiP	ZNE	13	14	06
		(S)	ZNE		17	22
	13	eP	Z	15	24	22
		S	ZNE		26	02
		eT	ZNE		34	05
	13	eiP	ZNE	23	29	29
		S	ZNE		30	14
	14	eP	Z	09	32	23
	14	eP	Z	10	32	32.5
		e	N		39	56
		e	N		43	16
		eL	Z		45	12
	14	eP	Z	18	16	09
		e	ZN		23	16
		e	N		26	20
		e	Z		27	08
		eL	Z		31	16
		eL	Z		33	24
	14	eP	Z	20	25	58
		eiS	ZNE		27	44
	14	eiP	Z	21	48	38
		eiS	ZNE		50	14

Seismograms interpreted
by I. Anapu.

"
P.D. Müller
OBSERVER-IN-CHARGE

JAN 27 1971

Geophysics Division
 DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
 NEW ZEALAND

Apia Observatory,
 P.O. Box 52,
 Apia, W. Samoa.
 22 January 1971



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/3

APL

Jan.	15	eP	Z	19	37	14
		eS	ZNE		40	44
		e	ZNE		42	48
		e(T)	ZNE		57	35
	15	eP	Z	21	49	54
		e	E		56	20
	16	e	E	03	31	52
	16	e	ZE	05	03	22
	17	e	ZNE	16	56	32
	17	e(P)	Z	17	22	32
	17	eP	Z	21	30	18
		S	ZNE		31	02
	17	P	Z	21	53	00
		S	ZNE		54	50
	18	e	N	00	33	10
		e	ZE		35	32
	18	eP	Z	05	19	32
		eS	ZNE		24	40
	18	e(P)	Z	06	02	50
	18	eP	Z	11	33	45
		e	N		40	44
	18	P	Z	14	38	18
		S	ZNE		39	28
	19	e(S)	NE	03	38	16
		eL	ZNE		49	36
	19	P	Z	09	42	25
		S	ZNE		43	48
		T	ZNE		50	15
	20	iP	Z	22	58	08
		S	ZNE			40
	21	iP	Z	06	25	17
		<u>Compression</u>				
	21	eP	Z	12	25	30
		S	ZNE		26	59
	21	iP	Z	17	29	52
		<u>Compression</u>				
	22	eiP	ZNE	00	34	17
		S	ZNE			36

"
 P.D. Muller
OBSERVER-IN-CHARGE

1971 05 1971

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
29 January 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/4

AFI

Jan.	22	(P)	Z	02	38	05
		(S)	ZNE		39	35
	22	eP	Z	03	59	16
		(S)	ZNE	04	01	09
	23	P	Z	05	13	57
		S	ZNE		14	18
	24	P	Z	18	43	34
		S	ZNE		45	13
	25	P	Z	00	25	27
		S	ZNE		31	16
		L	ZNE		34	04
	25	P	Z	16	19	00
		S	ZNE		27	40
		e	ZNE		31	38
		e	ZE		35	06
		L	ZN		38	00
		L	E		40	40
	26	eP	Z	08	43	07
		S	ZNE		44	10
	26	e(S)	ZN	19	51	36
		eL	ZN	20	01	40
	27	eP	Z	23	52	49
		e	Z		53	26
		eS	ZNE		56	32
	28	eP	Z	06	30	55
		S	ZNE		32	25
	28	eP	Z	20	08	48
		S	ZNE		09	42
	28	eiP	Z	21	38	57
		S	ZNE		39	35

Seismograms interpreted
by I. Anapu
M. Pasefika

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P.D. Müller
OBSERVER-IN-CHARGE

FEB 10 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



International
Seismological
Centre
Apia Observatory
P.O. Box 52
Apia, W. Samoa.
5 February 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/5

Jan.	29	e(P)	Z	03	25	04	Feb.	2	iP	Z	14	57	49.5
	29	eP	Z	20	13	56			Compression				
		S	ZNE		14	38			S	ZNE	58	03	
	29	eP	Z	22	08	40		2	eP	Z	15	20	09
		i	ZN		10	28			S	ZNE	21	31	
		i	ZE		11	28			e	ZNE	22	12	
		e(S)	ZNE		17	24			eT	ZNE	27	10	
		(L)	ZNE		28	00							
	29	eP	Z	23	35	19		3	iP	Z	03	22	54
		e(P)	Z		36	09			Compression				
	29	eP	Z	23	39	52			S	ZNE	23	11	
		S	ZNE		41	41		3	eiP	Z	06	09	21
		eT	ZNE		50	20			(S)	ZNE	10	49	
	30	eP	Z	02	21	20		3	e	N	12	01	46
		S	ZNE		23	15			e	ZNE	06	20	
	30	e(P)	ZNE	13	10	11		3	eP	Z	19	57	12
	30	P	Z	18	31	56			eS	ZNE	20	04	38
		S	ZNE		33	45			eL	ZNE	11	20	
		L	ZNE		34	40		4	eP	Z	06	15	14
		eT	ZNE		41	40			S	ZNE	16	08	
	31	eP	Z	16	57	11		4	eP	Z	13	43	19
		S	ZNE		59	25			S	ZNE	45	34	
Feb.	1	eP	Z	04	36	03			T	ZNE	55	45	
		S	ZNE			21		4	P	Z	15	46	27
	1	e(P)	Z	05	30	48			e	ZNE	50	12	
		eS	ZE		38	53			S	ZNE	57	22	
		eS	N		39	12			e	ZNE	16	03	16
		e	E		46	16			e	Z	09	24	
		eL	ZN		48	40			iL	N	11	40	
	1	eP	Z	06	17	39			L	ZE	12	36	
		S	ZNE		19	46			Coda about 2 hours.				
		eT	ZNE		28	40			Seismograms interpreted by I. Anapu M. Pasefika				
	1	e(P)	Z	15	02	54							
	1	eP	Z	19	03	51							
		eS	ZNE		05	31							
	1	eP	Z	23	55	21							
		S	ZNE		56	10							
	2	iP	Z	12	28	51							
		Dilatation											
		S	ZNE		29	10							
	2	eP	Z	13	10	27							
		S	ZNE		11	50							
		T	ZNE		17	10							

P.D. Müller
OBSERVER-IN-CHARGE

FEB 18 1971

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Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



International Seismological Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
12 February 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/6

Date	Time	Phase	Direction	Time	Time	Time	Date	Time	Phase	Direction	Time	Time	Time
Feb. 5	02 08 18	eiP	Z	02 08 18	10 13		Feb. 7	16 53 12	eP	Z	16 53 12		
		S	ZNE						S	ZNE			
5	07 54 50	eS	ZNE	07 54 50	08 03 20		7	17 02 05	T	ZNE	17 02 05		
		e	NE				8	10 30 22	eP	Z	10 30 22		
		eL	ZN						S	ZNE			
5	10 29 27	e(P)	ZNE	10 29 27	13 35 42		8	20 18 55.5	iP	ZNE	20 18 55.5		
5	13 35 42	eP	Z	13 35 42	36 10				Compression				
		S	ZNE						S	ZNE			
		T	ZNE				8	21 17 03	eP	Z	21 17 03		
5	21 35 12	eL	ZNE	21 35 12	01 48 26				iS	ZNE			
6	01 48 26	eS	ZNE	01 48 26	54 12				i	N			
		eL	NE						e	E			
		eL	Z						i	Z			
6	01 58 09	iP	ZNE	01 58 09	55 53				i	Z			
		Compression							iL	E			
									iL	ZN			
6	04 09 00	eS	NE	04 09 00	16 12				Coda about 3 hours.				
		eL	NE				9	08 33 39	e(P)	Z	08 33 39		
		eL	Z						e	ZN			
6	08 24 14	eP	Z	08 24 14	37 26		9	14 11 53	P	Z	14 11 53		
		eS	ZNE						iS	ZNE			
		eL	N						e	E			
		eL	ZE						i	N			
6	11 13 52	e(L)	ZN	11 13 52	44 16				e	E			
6	18 10 07	eP	Z	18 10 07	48 40				i	NE			
		S	ZNE						iL	ZNE			
		eL	ZN				9	18 38 41	(P)	ZNE	18 38 41		
		T	ZNE				9	18 56 43	eP	Z	18 56 43		
6	20 48 51	eP	Z	20 48 51	50 54				eS	ZNE			
		S	ZNE				9	20 41 48	eP	Z	20 41 48		
7	01 06 47.5	iP	Z	01 06 47.5	07 13				S	ZNE			
		Compression					9	21 48 05	P	Z	21 48 05		
		S	ZNE						S	ZNE			
7	02 40 10	eP	Z	02 40 10	48 54		10	19 45 52	e	E	19 45 52		
		S	ZNE				10	23 29 20	e	E	23 29 20		
		e	ZE										
		L	E				11	03 20 08	(P)	Z	03 20 08		
		L	ZN						S	ZNE			
7	03 08 55	e(P)	Z	03 08 55	59 00								
7	03 50 11	eP	Z	03 50 11	51 21		11	13 15 38	e	N	13 15 38		
		S	ZNE						e(L)	ZN			

P.D. Muller
OBSERVER-IN-CHARGE

FEB 24 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
19 February, 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 METRES

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/7

FEB. 12	eP	Z	10	32	48
	S	ZNE		33	24
12	iP	Z	19	14	34.5
	Dilatation				
	S	ZNE		20	52
	E(L)	ZNE		24	12
13	e(P)	Z	01	32	25
	e(S)	ZNE		34	31
13	e(P)	Z	09	57	03
	e(S)	ZNE		58	03
13	eP	Z	16	13	14
	S	ZNE			49
	T	ZNE		16	23
13	eP	Z	22	17	23
	e(S)	N		27	12
13	e(P)	ZNE	23	39	23
14	iP	Z	06	03	58.8
	Compression				
	S	ZNE		05	10
14	eP	Z	19	34	28
	S	ZNE		36	12
15	P	Z	03	47	09
	S	ZNE		48	37
15	iP	ZNE	07	54	02.8
	Dilatation				
	S	ZNE		56	32
	T	ZNE			37
16	e(P)	Z	14	37	49
16	eP	Z	14	40	45
	S	ZNE		42	17
17	e(P)	Z	13	34	49
	S	NE		35	31
	(T)	ZNE		38	20
17	e(P)	Z	15	55	49
	(S)	ZNE		57	38
18	P	ZNE	12	16	02
18	eP	Z	22	21	58
	S	ZNE		22	24

Seismograms interpreted
by. I. Anapu.
M. Pasefika.

"
P.D. Muller
OBSERVER-IN-CHARGE

MAR 04 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
26 February, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/8

FEB.	19	eP	Z	06	55	28
		S	ZNE		56	27
	19	eP	Z	13	49	40
		e(S)	ZNE		50	48
	19	eP	Z	20	29	26
		S	ZNE		31	20
		T	ZNE		40	22
	20	eP	Z	05	34	40
		S	ZNE		36	38
	20	iP	Z	15	08	53.5
		Compression				
		S	ZNE		09	18
	20	eP	Z	17	04	43
		S	ZNE		05	24
		T	ZNE		08	30
	21	eiP	Z	03	06	11
		S	ZNE		07	27
		L	ZNE		08	00
		T	ZNE		12	30
	21	P	Z	03	23	00
		S	ZNE		25	06
	21	eP	Z	10	48	40
		i	ZE		52	38
		e	ZNE		59	06
		i	ZNE	11	00	30
		i	ZNE		02	06
		i	ZNE		06	52
		i	E		10	04
		i	Z		13	50
		i	NE		16	36
	22	P	Z	10	12	06
		S	ZNE		13	29
	23	(P)	Z	18	05	08
	24	P	Z	23	57	39
		S	ZNE		58	06
	25	e(L)	ZE	04	55	40
	25	iP	Z	10	28	49.8
		Dilatation				
		S	ZNE		29	32
	25	eP	Z	12	40	10
		S	ZNE			40
		T	ZNE		42	30

P.D. Muller
OBSERVER-IN-CHARGE

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

MAR 15 1971



International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
5 March 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/9

Feb. 26	eP	Z	05	01	20	Feb. 28	iP	Z	16	49	25
	e	Z		06	18		Dilatation				
	e	N		07	21						
	e	ZE		08	20	Mar. 1 X	P	Z	06	59	16
26	eP	Z	07	38	15		S	ZNE	07	00	00
	e	ZNE		42	20		T	ZNE		03	10
	e	Z		43	52						
	e	N		44	40	1	P	Z	09	25	38
26	e	NE	08	10	40		S	ZNE		27	13
26	e(P)	Z	11	01	45	1	eL	ZNE	12	35	40
	e(S)	NE		06	48						
26	eP	Z	19	02	46	1	e	ZN	13	27	32
	eS	N		07	12		e	E		28	20
	eS	ZE		08	20	2	e	ZN	01	31	40
26	eP	Z	21	25	40	2					
	S	ZNE		26	30		e	N	11	49	40
	T	ZNE		30	25		e	ZE		52	20
26	iP	Z	21	46	26.4	2	P	Z	12	41	20
	Compression						S	ZNE		42	53
	(S)	ZNE		47	30						
27	eP	Z	00	08	38	3	P	Z	10	27	27
	S	ZNE		10	35		S	ZNE			48
27	e(L)	ZN	01	03	28	3	e	NE	15	16	32
27	e	E	04	32	40		eL	ZNE		19	20
27	iP	Z	04	46	34	3	P	Z	22	05	04
	Compression						e	ZN		14	44
	S	ZNE		48	07		e	ZN		25	40
27	eiP	Z	13	28	34	4	iP	Z	00	38	35.5
	S	ZNE		30	12		Compression				
	T	ZNE		33	20		(S)	ZNE		40	50
27	e	ZN	17	04	20						
27	eiP	Z	23	12	35	4	e	ZNE	03	35	40
	S	ZNE		14	33						
28	eP	Z	10	39	16	4	eP	Z	13	12	46
	e	ZNE		40	12		S	ZNE		14	22
28	i(S)	NE	11	01	52	4	eiP	Z	17	18	07
							S	ZNE		19	04
28	P	Z	11	12	19	4	eP	Z	20	29	14
	iS	NE		13	32		S	ZNE		31	05
	iS	Z		14	26						
28	eP	Z	15	18	50						
	S	ZNE		19	30						
	T	ZNE		22	05						

P.D. Müller
OBSERVER-IN-CHARGE

C23

MAR 18 1971



Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
12 March 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/10

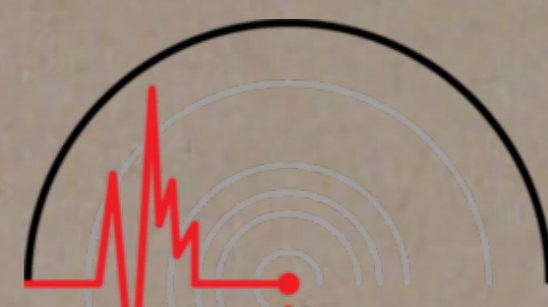
Mar. 5	eP (S)	Z ZNE	21	02 03	14 15	Mar. 9	iP Dilatation	Z	18	07	11.9
5	iP Compression S T	Z ZNE ZNE	23	13 15	16 35	9	P S	Z ZNE	20	46 48	46 48
6	iP Dilatation S	Z ZNE	04	42 44	52 20	9	e(P) S	Z ZNE	23	06 07	12 58
6	eP S	Z ZNE	08	37 38	43 02	10	e(P)	Z	23	05	49
6	(P) (S)	Z ZNE	12	26 27	50 50	11	eiP S	Z ZNE	07	08 10	51 18
6	eP S T	Z ZNE ZNE	23	14 17	04 15	11	eP S	Z ZNE	08	24 26	13 06
7	eiP S	Z ZNE	02	44 45	55 53	Seismograms interpreted by I. Anapu M. Pasefika					
7	P S	Z ZNE	07	08 10	24 00	P.D. Müller <u>OBSERVER-IN-CHARGE</u>					
7	eiP S	Z ZNE	08	24 25	16 50						
7	e(P) S	Z ZNE	17	44 46	55 27						
8	e e	N ZE	14	37 38	20 53						
8	eP S	Z NE	21	30 31	25 57						
8	eP S	Z ZNE	21	39	09 34						
9	eiP S	Z ZNE	01	35 36	27 09						

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

MAR 25 1971

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
19 March, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/11

DATE	TYPE	DEPTH	TIME	AMPLITUDE	DATE	TYPE	DEPTH	TIME	AMPLITUDE
MAR. 12	eP	Z	02	17 27	MAR. 14	P	Z	11	51 56
	S	ZNE		18 21		(S)	ZE		53 41
12	eiP	Z	02	22 44	15	e(P)	Z	09	30 07
	S	ZNE		23 15		S	ZNE		31 45
	T	ZNE		25 04	15	P	Z	10	49 02
12	eP	Z	03	39 15		S	E		55
	S	ZNE		41 18		T	ZE		53 04
12	iP	Z	14	29 45.8	15	iP	Z	14	26 12
	Compression					Dilatation			
	S	ZNE		30 46	15	eP	ZE	19	02 55
12	iP	ZNE	18	04 32		e(S)	E		04 28
	Compression					e	ZNE		07 12
	S	ZNE		53	15	P	Z	20	56 15
12	e	ZNE	23	09 52		e	ZNE	21	00 28
13	eiP	Z	15	51 24	15	P	Z	22	12 02
	S	ZNE		54 26		S	ZE		35
	L	ZNE		55 00		T	ZE		14 41
13	iP	Z	19	20 14	16	P	Z	03	18 01
	Dilatation					e(S)	NE		20 12
	e	ZE		40	16	eP	ZNE	08	03 53
	e	ZE		26 32	16	iP	Z	11	16 43.8
	e	N		27 24		Dilatation			
	e(S)	NE		30 50		S	ZNE		17 20
	(L)	ZE		34 00	16	P	ZNE	12	37 42
13	eP	Z	19	33 18		S	ZN		42 00
	S	ZNE		35 23		S	E		43 00
13	iP	Z	21	54 50	16	iP	Z	20	45 54.2
	Dilatation					Compression			
	S	ZNE		55 07		S	ZNE		54 40
13	iP	Z	23	22 25.5		e	E		56 28
	Compression					e	NE	21	02 12
	S	ZNE		46		e(L)	ZNE		05 12
14	eS	ZN	00	12 56	17	eP	ZNE	03	22 44
	eL	E		23 48	17	eP	Z	04	11 39
	eL	ZN		25 00		S	ZNE		13 15
14	eP	Z	06	13 46	17	eP	Z	20	31 40
	e	ZNE		17 24		S	ZNE		32 27
	e	N		18 00	18	eiP	ZNE	02	39 41
	e	ZE		19 00	18	P	Z	03	15 55
14	iP	Z	07	19 56.5		S	ZNE		17 35
	Dilatation				18	P	ZNE	05	21 45
	S	ZE		20 15		S	ZNE		23 00
14	P	Z	11	34 28	18	T	ZNE		28 50
	S	ZE		35 10		eP	ZNE	18	42 18

MAR 31 1971

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
26 March 1971

AFI

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/12

Mar.	Time	Type	Station	Mag	Mag	Mar.	Time	Type	Station	Mag	Mag	Mag
19	P	ZNE	02	26	53	23	e	Z	21	45	08	
	e	N		31	12							
	e	ZE		32	24	23	eL	ZN	22	33	40	
19	P	Z	03	04	58	24	eP	Z	02	33	20	
	S	ZNE		07	10		eS	ZNE		39	02	
19	iP	ZNE	03	10	37		e	ZNE		42	00	
	Compression						eL	ZE		43	32	
	(S)	ZNE		11	44							
	T	ZNE		18	47	24	eL	ZNE	14	35	44	
19	iP	Z	03	40	42.7	24	eP	Z	21	39	53	
	Dilatation						S	ZNE		41	04	
19	eP	Z	16	56	03		eT	ZNE		45	52	
	e	Z		57	14	25	eP	Z	03	48	22	
	e	ZE	17	04	24		S	ZNE		49	17	
	e	E		13	40	25	iP	ZNE	13	49	27.5	
	e	ZN		16	24		Dilatation					
	e	ZNE		20	20	25	eP	ZNE	19	59	27	
19	iP	Z	20	23	11.8	25	e	E	21	55	08	
	Compression											
	S	ZNE			35							
20	eP	Z	08	10	31							
	S	ZNE		11	10							
	T	ZNE		14	55							
20	e	NE	08	29	40							
	e(L)	ZNE		57	00							
20	iP	ZNE	13	21	37							
	Compression											
	S	ZNE			58							
21	eP	Z	05	45	46							
	S	ZNE		46	29							
21	P	Z	15	18	49							
	S	NE		20	23							
21	eP	Z	18	57	19							
	eS	ZNE		58	32							
22	e	E	03	29	24							
22	e	ZN	10	25	40							
23	eP	ZNE	02	17	40							
	S	ZNE		19	40							
23	e	N	09	56	56							
	e	Z		58	36							
	e	ZNE	10	03	56							
	e	N		07	24							
	e	E		09	08							
	e	ZE		14	40							
	eL	ZN		25	38							
	eL	E		29	12							

Seismograms interpreted
by I. Anapu
M. Pasefika

P.D. Müller
OBSERVER-IN-CHARGE

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
8 April 1971

APR 20 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/14

Apr. 2	eiP S T	Z ZNE ZNE	02	42 45 54	56 09 40	Apr. 5	P S	Z ZNE	14	29 31	30 56
2	eiP S	Z ZNE	12	48 49	32 07	5	eP S	Z ZNE	16	04 05	27 23
2	e e(L)	NE Z	19	30 35	00 00	5	eP S	Z ZNE	16	12 15	36 22
3	e e e e e(L)	ZE N E N Z	05	27 30 35 37 42	20 20 48 10 00	5	eiP (P) S	Z ZNE ZNE	20	03 03 05	01 22 06
3	e(P)	Z	10	35	40	6	iP Dilatation S	Z ZNE	03	41	34.5 55
3	P S	Z ZNE	15	20 22	39 00	6	P S T	ZNE ZNE ZNE	11	08 10 15	56 53 42
4	eP S	Z ZNE	07	09 55	01	6	eP S	Z ZNE	14	05 07	56 15
4	iP Dilatation S	Z ZNE	08	35 36	49.5 23	6	P S	ZNE ZNE	16	04 06	11 25
4	P S e e L iL	Z ZNE ZNE NE NE Z	10	25 33 35 37 38 39	16 16 20 00 52 36	7	eP eS	Z ZNE	03	07 09	39 08
4	eP e(S)	Z ZNE	13	54 56	23 38	7	P i i iS i iL iL	Z Z Z ZNE ZN N ZE	05	09 12 14 18 22 25 28	49 20 32 12 24 20 24
4	eP S	Z ZNE	18	33 35	23 30						
4	eP	ZNE	18	50	32						
4	e eL	E ZNE	19	07 10	40 24						
4	eiP S	Z ZNE	21	42 43	47 19						
5	eP e e e(L) eL	Z E N Z NE	05	12 22 29 33 36	46 27 40 44 08						
5	eP e(S)	Z ZNE	09	15 23	19 52						

Seismograms interpreted
by: I. Anapu
M. Pasefika

P.D. Müller
OBSERVER-IN-CHARGE

C 23

Punch circled data only APR 23 1971

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa
16 April 1971
International
Seismological
Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/15

Apr. 8	iP	ZNE	07	58	29	Apr. 13	eiP	ZNE	05	20	28
	Compression						S	ZNE		22	30
	ei	Z			49		L	ZNE		23	40
	S	ZNE	08	08	52		T	ZNE		31	10
	SS	ZNE		14	14	13	iP	Z	05	58	18.8
	SSS	N		17	52		Dilatation				
	e	N		21	52		S	ZNE			48
	eL	N		24	40		FELT AT APIA MW II				
	eL	ZE		27	40						
9	eiP	ZNE	00	19	49	13	eP	Z	08	44	16
9	eiP	ZNE	07	28	30		S	ZNE		46	10
10	iP	ZNE	00	08	17.5	13	eP	Z	10	50	40
	Dilatation						S	ZNE		51	58
10	eiP	ZNE	01	24	30		(L)	ZNE		52	36
	S	ZNE		26	18	13	T	ZNE		57	25
10	eiP	ZNE	08	59	36		iP	Z	17	49	17.5
	S	ZNE			58		Dilatation				
10	eP	Z	12	02	58	13	S	ZNE		50	49
	eS	ZNE		04	53		eP	Z	19	15	31
10	iP	ZNE	12	33	34.2	13	S	NE		17	30
	Compression						e(L)	ZNE	23	57	40
	S	ZNE			56	14	eiP	ZNE	04	39	52
10	e(P)	Z	13	05	22		S	ZNE		40	13
	S	NE		07	02	✓ 14	eiP	ZN	08	43	02
10	eL	ZN	23	38	52		S	ZN		44	57
11	eiP	ZNE	00	01	25		(L)	ZNE		45	40
	eS	ZNE		03	17		eT	ZNE		54	43
11	eP	Z	11	23	10	14	e	NE	12	08	16
	S	ZNE			36		e	Z		11	20
12	eiP	ZNE	05	12	26	✓ 15	eP	ZN	00	42	30
12	eiP	ZNE	18	59	53		(S)	ZN		46	48
	S	ZNE	19	01	46	✓ 15	T	ZN	01	02	50
	eT	ZNE		11	07		(T)	ZN	01	08	09
12	eiP	ZNE	19	38	11	15	eP	ZNE	04	51	42
	S	ZNE		40	16		S	ZNE		52	38
12	eiP	ZNE	20	46	16	✓ 15	iP	Z	05	52	33
12	iP	ZNE	21	02	29		Compression				
	Dilatation						S	ZNE		53	42
	S	ZNE		04	00	✓ 15	P	Z	08	56	02
12	eiP	ZNE	21	31	52	15	iP	Z	09	24	11.5
	S	ZNE		33	53		S	ZNE			33
13	eP	Z	04	13	12	15	eP	Z	10	14	40
	S	ZNE		14	25		S	ZNE		15	39
						15	P	Z	10	55	44
							S	ZNE		56	08
						15	iP	Z	19	11	26.5
							Compression				
							S	ZNE			55

APR 29 1971

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa
23 April 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLFTIN 71/16

Apr. 16	eP S T	Z ZNE ZNE	06	33 35	24 48 45	Apr. 20	eiP S	Z ZNE	01	25	27 46
16	eP S	Z ZNE	11	22	16 40	20	e(P)	ZNE	13	17	27
17	eiP (L) L	ZNE N ZE	01	47 55 57	55 52 40	20	e e e	ZNE N NE ZNE	14	37 44 53 57	48 52 56 40
17	iP Compression S	ZNE ZNE	06	07 08	11 23	20	iP Dilatation (S)	Z NE	14	48 51	17 18
17	iP Compression S	Z ZNE	10	17 18	37 18	21	eiP eS e(T)	ZNE ZNE ZNE	06	24 26 37	21 55 49
17	(L)	ZNE	17	56	20	21	eS e e(L) eL	ZNE NE E ZN	07	02 06 10 12	20 37 28 36
17	eP S	Z ZNE	20	06 12	14 00	21	eP S L L T	Z ZNE E ZN ZNE	08	37 39 40 48	38 35 20 56 35
18	e(P)	ZNE	06	38	56	21	eP S L L T	Z ZNE E ZN ZNE	08	37 39 40 48	38 35 20 56 35
18	e(S) e	NE ZN	14	45 47	28 12	21	eP S T	Z NE ZNE	11	05 07	18 48 34
18	eP e e e eL	Z N N N ZE	17 18	53 03 09 15 18	39 52 08 24 24	21	P S	Z ZNE	19	04 06	59 23
18	iP Dilatation S	Z ZNE	18	54 55	46.8 32	22	eP S	Z ZNE	22	03 04	58 17
19	e	E	01	10	20	22	e(P) (S) (T)	Z ZNE ZNE	23	05 07 12	43 00 50
19	eP	ZNE	13	45	24						
19	iP Compression	Z	14	40	43.4						
19	eiP S T	ZNE ZNE ZNE	19	10 11 13	54 23 17						

Seismograms interpreted
I. Anapu
M. Pasefika

"
P.D. Muller
OBSERVER-IN-CHARGE

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
30 April 1971
International
Seismological
Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/17

Apr. 23	eP S	Z ZE	08	08	36	Apr. 27	ei(P)	Z	03	29	20
				09	08	27	e	ZNE	08	53	56
23	e e(L) eL	E N ZE	12	16	32	27	iP Compression S	Z ZNE	10	28	17.5
				47	10				29	33	
23	e(P)	Z	12	39	21	27	e	Z	10	38	40
23	eP eS	Z ZE	13	35	04	27	iP Compression S	Z ZNE	14	23	42
				36	03				24	00	
23	eP S T	Z ZE ZE	15	28	40	27	P S	Z ZNE	15	05	33
				29	19				54		
				32	15	27	eiP S L L T	Z ZNE Z N ZNE	19	59	21
23	P S	Z ZE	16	28	58				20	03	20
				29	29				04	08	
23	eP S	Z ZE	21	09	09				13	15	
				10	39	28	P S	Z ZNE	10	12	19
23	eiP S T	Z ZE ZE	21	46	12				13	00	
				49	25				12	19	
24	eiP S	ZNE ZNE	02	20	30	28	eP eS	Z ZNE	11	10	23
					52				12	23	
24	P (S)	ZNE ZNE	02	40	43	28	eP S	Z ZNE	12	33	22
				44	36				35	02	
24	eP S eT	ZNE ZNE ZNE	11	21	05	28	e(S) e e	ZNE NE E	14	44	16
				22	02				47	56	
				25	47				50	52	
24	iP Compression S	Z ZNE	21	57	05.7	28	e e e(S) e eL	ZNE ZE ZN ZE ZNE	15	56	28
					26				57	36	
25	e(P) e(L) eL	Z N ZE	04	09	45				16	02	52
				17	50				11	44	
				19	32				15	44	
25	P S	ZNE ZNE	19	05	48	29	eP S	Z ZNE	15	15	16
				06	08				16	03	
26	eiP S L L eT	Z ZNE ZE N ZNE	04	21	55	29	e L	NE ZNE	16	35	00
				23	51				36	52	
				24	40	29	e e(S) e(L)	NE NE ZE	20	16	36
				25	32				25	56	
				31	45				29	36	
26	e	Z	19	17	28						
27	eiP S T	ZNE ZNE ZNE	01	01	32						
				02	14						
				04	15						

Seismograms interpreted
by I. Anapu
M. Pasefika

APR 12 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory, International
P.O. Box 52, Seismological
Apia, W. Samoa, Centre
2 April, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/13

MAR. 26	eP	Z	09	17	21	MAR. 30	eiP	Z	02	41	31
	S	ZNE		25	00		S	ZNE		43	00
	e	NE		29	20		30 (P)	ZNE	05	53	53
	e	ZN		32	00		30 eP	ZNE	06	01	29
26	e(L)	ZNE	10	47	48		e(S)	ZNE		06	56
26	eP	Z	15	41	20		30 iP	Z	08	53	03
	S	ZNE		43	47		Dilatation				
	T	ZNE		54	07		S	ZNE			13
26	e(P)	Z	17	47	15		30 eP	Z	11	41	18
	eL	ZN	18	11	52		e	N		50	36
27	eiP	ZNE	01	20	08		eL	ZNE	12	00	44
	S	ZNE		21	17		30 P	Z	22	42	00
	e	ZNE		22	00		S	ZNE		44	00
	T	ZNE		26	30		eL	ZN		45	20
27	eP	Z	05	32	56		T	ZNE		52	14
	S	ZNE		33	41		30 iP	Z	23	44	07.5
	eT	ZNE		36	51		Dilatation				
27	eiP	Z	15	23	41		S	ZNE			47
	S	ZNE		25	50		31 iP	Z	07	48	06.1
27	eP	Z	16	30	23		Dilatation				
	S	ZNE		31	00		S	ZNE		49	17
	T	ZNE		33	52		31 eP	Z	09	24	50
27	eP	Z	20	34	04		e	ZE		34	20
	S	ZNE		36	11		e(L)	ZE		44	26
28	eP	Z	00	24	42		31 eP	Z	10	34	48
	S	ZNE		25	50		e(L)	ZNE		53	08
	T	ZNE		30	56		31 eP	Z	11	36	50
28	eiP	Z	04	19	47		S	ZNE		39	30
	S	ZNE		21	20		eL	ZNE		40	40
	eT	ZNE		30	10		T	ZNE		50	20
28	P	ZNE	08	01	22		31 eP	Z	14	07	07
	S	ZNE		03	48		S	ZNE		09	09
28	e(L)	ZNE	09	09	52		31 eiP	Z	15	12	07
28	eP	ZNE	18	07	22		S	ZNE		13	06
29	e(L)	ZNE	04	15	40	APR. 1	eiP	ZNE	00	15	20
29	e	N	06	44	48		(S)	ZNE		19	18
	e	ZE		54	24		L	ZE		20	32
29	eP	Z	11	30	18		1 (P)	ZNE	00	18	02
	S	ZNE		31	51		1 eiP	ZNE	05	40	23
29	P	ZNE	11	56	01		S	ZNE		44	20
29	eP	Z	16	00	13		L	ZNE		45	24
	S	ZNE			53		1 eiP	ZNE	06	02	43
	T	ZNE		04	00		S	ZNE		03	16
							1 eiP	ZNE	07	28	06
							S	ZNE			21

2.

APR.	1	eiP	ZNE	19	42	07
		S	ZNE		45	04
	1	eL	ZE	13	28	36
	1	eiP	ZNE	19	42	07
		S	ZNE		45	04

Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
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MAY 12 1971

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
7 May, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/18

DATE	TIME	TYPE	COMPONENT	HR	MIN	SEC	DATE	TIME	TYPE	COMPONENT	HR	MIN	SEC
APR.	30	eiP	Z	02	05	46	MAY	3	eiP	ZNE	11	31	26
			ZNE		07	26							
	30	P	Z	05	46	21		3	P	Z	15	18	44
			ZNE			42							
30	P	Z	10	29	42	4	eP	ZNE	02	16	46		
		ZNE		30	49								
30	L	ZN	16	19	12	4	e	ZNE		19	50		
30	P	Z	16	51	37	4	e	ZN		27	00		
		ZNE			56								
MAY	1	P	Z	04	53	19	4	eP	Z	13	08	17	
			ZNE		54	32							
1	iP	Z	11	50	11	4	S	ZNE		10	30		
		ZNE			21								
1	P	Z	12	00	50	4	T	ZNE		16	46	44	
		ZNE		02	19								
1	eiP	Z	14	19	32	5	P	Z	02	54	10		
		ZNE		22	44								
1	(P)	Z	14	27	29	5	S	ZNE	03	06	34		
1	eP	Z	14	51	53	5	T	ZNE	04	56	17		
		ZNE		53	42								
1	eP	Z	15	10	33	5	Compression	Z					
		ZNE			55								
1	e	NE		11	08	6	S	ZNE	16	09	19		
		ZNE		12	23								
1	e(L)	ZE	19	20	12	6	S	ZNE		10	03		
2	iP	Z	02	01	58.8	7	iP	Z	00	12	13		
		ZNE											
2	Dilatation	N		02	12	7	Compression	ZNE		14	19		
2	e	ZNE	06	19	10	7	T	ZNE		18	50		
		E		22	14								
2	e	ZN		23	52	7	P	Z	00	32	19		
		ZNE		27	54								
2	i	N		30	56	7	S	ZNE		41	40		
2	i(SS)	ZE		31	44	7	e	N		44	36		
		ZE		35	00								
2	i(SSS)	ZE		37	20	7	e	E		46	16		
		NE		38	00								
2	L	Z		38	00	7	L	ZNE		49	12		
2	P	Z	06	47	49	7	S	ZNE					
3	eP	Z	10	54	59	7	e	ZNE					
		ZN		59	28								
3	e	ZE	11	00	32	7	e	ZE					
		ZE		02	44								

Seismograms interpreted
by I. Anapu.
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P.D. Muller
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Geophysics Division
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MAY 20 1971 023

Apia Observatory,
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Apia, W. Samoa. International
Seismological
Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/19

MAY	7		Z	04	05	12	MAY	9	eP	Z	12	40	48
		S	NE		06	04			S	ZNE		41	55
		T							T	ZNE		47	20
	7	P	Z	07	16	00		9	eS	ZNE	18	54	36
		S	NE		17	43			eL	ZNE	19	04	12
	7	eP	Z	08	50	53		9	eP	ZNE	19	48	31
	7	eP	Z	09	02	6		9	eP	Z	22	25	55
		e	ZNE		06	16			S	ZNE		27	09
	7	eP	Z	18	40	08		10	iP	ZNE	09	20	57
		S	ZNE		41	09			Compression				
		T	ZNE		46	35			S	ZNE		21	18
	7	(P)	ZNE	19	09	38			Felt Apia mm IV				
	7	eP	Z	19	18	11		10	eP	Z	12	04	27
		S	ZNE		19	35			eS	ZNE		13	12
	7	P	Z	19	50	45			e	N		21	00
		S	ZNE		52	15			e	ZE		23	48
	7	ei(P)	ZNE	22	31	44			eL	ZNE		27	12
	8	iP	Z	01	02	21.5		10	eP	Z	13	44	20
		Compression							S	ZNE			50
		e	ZN		12	40			T	ZNE		46	58
	8	e(P)	Z	08	36	58		11	eiP	Z	05	59	20
	8	eP	Z	12	04	36			S	ZNE			42
	8	iP	Z	22	33	46.8		11	P	Z	06	32	00
		Compression							S	ZNE		33	33
		S	ZNE		34	22		12	eP	Z	02	55	48
	8	eP	ZNE	23	20	13			e	ZE	03	08	12
		e(S)	ZE		26	40		12	ei(PKP)	Z	06	45	08
	9	P	Z	01	42	00		12	e(P)	Z	10	30	25
		S	ZNE			13		12	iP	Z	12	04	30.5
	9	eP	Z	03	56	53			Compression				
		S	ZNE		57	30			e(S)	NE		05	16
	9	iP	ZNE	07	34	24.5			(T)	ZNE		07	55
		Compression						12	e(P)	Z	13	17	15
		S	ZNE		35	09		12	iP	Z	13	36	41.5
	9	iP	Z	08	07	56.5			Dilatation				
		Compression							S	ZNE		37	20
		S	ZNE		08	16			T	ZNE		40	10
	9	P	Z	08	35	31		12	eiP	Z	14	31	31
		S	ZNE		44	20		13	P	Z	19	25	00
		e	Z		48	00			S	ZNE		27	44
		e	ZN		51	20		13	eP	ZNE	21	20	11
		L	ZNE		54	00			(S)	ZNE		23	20
	9	e(P)	Z	09	04	21		13	iP	Z	23	58	30
									Compression				
									S	ZNE		59	01

" P.D. Muller
OBSERVER-IN-CHARGE

MAY 26 1971

Geophysics Division
 DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
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Apia Observatory,
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 21.5.71
 International
 Seismological
 Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/20

MAY	Time	Type	Mag	Time	Type	MAY	Time	Type	Mag	Time	Type	
14	05 15 00	P		18	07 00 22	18	00 22	eiP	ZNE	07	00	22
	20 20	S			01 39		01 39	S	ZNE		01	39
	17 00	T			04 20		04 20	T	ZNE		04	20
14	08 08 51	e(P)	Z	18	22 57 09	18	22 57 09	eiP	ZNE	22	57	09
14	14 00 20	eP	Z		23 06 44		23 06 44	e	Z	23	06	44
	01 45	S	ZNE		07 36		07 36	e(s)	ZNE		07	36
14	21 29 34.5	iP	Z		08 32		08 32	e	Z		08	32
	31 07	Compression			09 10		09 10	e	N		09	10
		S	ZNE		12 32		12 32	e	N		12	32
15	05 23 53	e(P)	ZNE		13 06		13 06	e	ZE		13	06
15	16 06 09	e(P)	ZNE		16 38		16 38	e	ZNE		16	38
16	02 51 01	P	Z		19 32		19 32	iL	E		19	32
	52 02	S	ZNE		27 00		27 00	L	ZN		27	00
16	05 13 24.8	iP	Z	19	05 24 25	19	05 24 25	ei(P)	ZNE	05	24	25
	14 52	Dilatation		19	22 13 33	19	22 13 33	eiP	ZNE	22	13	33
		S	ZNE	20	00 44 27	20	00 44 27	iP	ZNE	00	44	27
16	07 02 45	eP	Z		47		47	Compression				
	03 52	(S)	ZNE	20	08 33 32	20	08 33 32	S	ZNE			
16	07 26 17	eP	Z	20	12 56 04.5	20	12 56 04.5	e(L)	ZNE	08	33	32
	27 46	e(s)	ZNE					iP	Z	12	56	04.5
16	17 39 25	iP	Z	20	13 01 17	20	13 01 17	Dilatation				
	45	S	ZNE		23		23	S	ZNE			
17	01 49 10	eP	Z	20	13 01 17	20	13 01 17	eiP	Z	13	01	17
	53	S	ZNE		35		35	S	ZNE			
17	02 01 23	iP	ZNE	20	19 13 48	20	19 13 48	e	NE	19	13	48
	03 45	Compression			16 20		16 20	e	Z		16	20
	03 14	S	ZNE	20	20 34 59	20	20 34 59	iP	Z	20	34	59
		T	ZNE		35 39		35 39	Dilatation				
17	05 48 30	eiP	Z		38 45		38 45	S	ZNE			
	50 20	S	ZNE	20	20 51 26	20	20 51 26	T	ZNE			
17	11 17 06	eiP	Z		20 52 13		20 52 13	eP	Z	20	51	26
	21 00	e	Z		55 20		55 20	S	ZNE			
	28 16	e	N	21	00 32 25	21	00 32 25	T	ZNE			
	29 08	e	ZE		33 44		33 44	S	ZNE	00	32	25
		i	N									
	31 20	e	N									
	34 28	e	ZNE									
17	11 55 55	ei(P)	Z									
18	00 49 55.6	iP	Z									
	52 54	Dilatation										
		S	ZNE									
18	06 37 08	e	ZNE									
	50 48	e	N									
	56 24	eL	ZNE									

Seismograms interpreted
 by I. Anapu.
 M. Pasefika.

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JUN 02 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
28 May, 1971.

STATION: AFIAMALU

LATITUDE: $13^{\circ} 54' 33.6''S$ LONGITUDE: $171^{\circ} 46' 38.1''W$ ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/21

DATE	TYPE	COMPONENT	TIME	AMPLITUDE	PERIOD	DATE	TYPE	COMPONENT	TIME	AMPLITUDE	PERIOD
MAY 21	eP	Z	11	37	09	MAY 24	eP	Z	18	00	36
	S	ZNE			33		S	ZNE		01	09
	T	ZNE		39	32		T	ZNE		03	06
21	iP	Z	12	39	05	24	eiP	Z	22	47	32
	Compression						S	ZNE		48	01
	S	ZNE			26		T	ZNE		49	45
21	e	ZNE	19	16	27	25	P	ZNE	06	03	14
	e	E		24	16		e(P)	Z	13	11	39
	eL	ZN		26	20		(L)	ZN		33	40
21	(P)	Z	19	59	38	26	eiP	ZNE	00	14	41
	(S)	ZNE	20	01	12		S	ZNE		16	51
21	P	Z	20	02	52		T	ZNE		19	50
	S	ZNE		03	20	26	P	Z	06	33	05
	T	ZNE		05	12		S	ZNE			35
22	eiP	ZNE	06	13	44	26	e(S)	ZNE	06	34	32
	S	ZNE		15	37		e(L)	E		43	28
22	ei(PKP)	Z	17	03	39		eL	ZN		46	08
23	iP	Z	03	27	15.9	26	P	Z	07	21	00
	Dilatation						S	ZNE		23	40
	S	ZNE		29	20		T	ZNE		31	35
23	eP	Z	17	32	38	26	P	Z	07	21	33
	S	ZNE		34	13		(S)	ZNE			58
24	ei(P)	ZNE	03	03	20	26	P	Z	08	54	36
24	iP	Z	03	06	14.4		S	ZNE		56	43
	Compression						T	ZNE	09	04	36
	S	ZNE			34	26	(P)	Z	15	38	03
24	eP	Z	04	21	49		S	ZNE		40	10
	S	ZNE		22	07	26	eP	Z	21	18	56
24	e	ZNE	05	05	08		S	ZNE		20	05
24	eP	Z	09	47	18	27	iP	Z	06	35	13
	S	ZNE		48	00		Compression				
	S	ZNE					S	ZNE			33
24	eP	Z	10	04	22	27	P	Z	16	52	40
	S	ZNE		05	27		(S)	ZNE		53	20
24	e	ZE	12	04	16						
24	eP	Z	15	49	25						
	S	ZNE		50	10						

Seismograms interpreted
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JUN 22 1971

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
11 June 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/23

June	Time	Phase	Component	Time	Phase	Component	Time	Phase	Component	Time	Phase	Component
June 4	02 10 54	eiP S	Z	02 08 39	eiP S	Z	June 8	eiP S T	ZNE	02 58 18	ZNE	36
			ZNE			ZNE			03 00 10			
June 4	08 38 39	eiP S	Z	09 31 30	eiP S	Z	June 9	eiP S		Z	03 53 45	ZNE
			ZNE			ZNE			06 10 38			
June 5	09 31 30	P (S) eL	Z	14 33 51	eP e	Z	June 9	eiP S		Z	06 10 38	ZNE
			ZNE			ZN			09 23 56			
June 5	14 33 51	eP e	Z	15 02 40	eL	ZE	June 9	eS e		N	13 28 48	Z
			ZNE			N			31 00			
June 5	15 15 52	eP S	Z	21 03 52	e(S) eL eL	ZE	June 9	iP Dilatation S		Z	17 37 46	ZNE
			ZNE			ZN			38 21			
June 5	15 16 25	eP S	Z	22 07 03	eL eL	ZN	June 9	eiP S T		Z	20 27 06	ZNE
			ZNE			E			30 41			
June 6	13 07 03	eiP S T	Z	16 22 06	e(P) S	Z	June 10	eiP eS e eL		Z	07 01 11	ZNE
			ZNE			ZNE			18 08			
June 6	10 17 17	T	ZNE	16 23 45	S	ZNE	June 10	iP Compression		Z	20 10 50.4	ZNE
			ZNE			ZNE			30 28			
June 6	16 22 06	e(P) S	Z	17 08 27	e(P) S	ZNE	June 6	e e		NE	22 02 14	Z
			ZNE			Z			04 08			
June 6	16 28 07	eP S T	Z	18 36 00	(P) S	Z	June 6	eiP S		Z	23 56 55	ZNE
			ZNE			ZNE			57 54			
June 6	30 11 11	T	ZNE	19 43 00	P S	Z	June 7	e(L)		ZN	00 55 48	ZNE
			ZNE			ZNE			09 36 23			
June 6	17 08 27	e(P) S	ZNE	22 02 14	e e	NE	June 7	(P) (S)		Z	10 35 18	ZNE
			ZNE			Z			36 10			
June 6	18 36 00	(P) S	Z	23 56 55	eiP S	Z	June 7	e(L)		ZN	00 55 48	ZNE
			ZNE			ZNE			09 36 23			
June 6	37 25 25	S	ZNE	19 43 00	P S	Z	June 7	(P) (S)		Z	10 35 18	ZNE
			ZNE			ZNE			36 10			
June 6	43 00 23	P S	Z	22 02 14	e e	NE	June 7	eiP S T		Z	15 48 48	ZNE
			ZNE			Z			01 48			
June 6	02 04 08	e e	NE	23 56 55	eiP S	Z	June 7	(P) (S)		Z	10 35 18	ZNE
			Z			Z			36 10			
June 6	56 55 54	eiP S	Z	19 43 00	P S	Z	June 7	e(L)		ZN	00 55 48	ZNE
			ZNE			ZNE			09 36 23			
June 7	00 55 48	e(L)	ZN	23 56 55	eiP S	Z	June 7	(P) (S)		Z	10 35 18	ZNE
			ZNE			Z			36 10			
June 7	09 36 23	(P) S	ZNE	22 02 14	e e	NE	June 7	eiP S T		Z	15 48 48	ZNE
			ZNE			Z			01 48			
June 7	10 35 18	(P) S	Z	23 56 55	eiP S	Z	June 7	(P) (S)		Z	10 35 18	ZNE
			ZNE			Z			36 10			
June 7	15 48 48	eiP S	Z	19 43 00	P S	Z	June 7	e(L)		ZN	00 55 48	ZNE
			ZNE			ZNE			09 36 23			
June 7	51 01 48	S T	ZNE	23 56 55	eiP S	Z	June 7	(P) (S)		Z	10 35 18	ZNE
			ZNE			Z			36 10			

Seismograms interpreted
by I. Anapu
M. Pasefika

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JUN 23 1971

c23

Geophysics Division

JUN 23 1971

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
18 June, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/24

JUN. 11			02	14	40	JUN. 14			07	35	25
	e	ZE					P	Z			
11	iP	Z	07	08	39.2		S	ZNE		36	10
	Compression						(T)	ZNE		40	10
	eS	ZNE		09	08	14	e	ZN	14	33	48
	T	ZNE		11	20	14	eP	Z	14	45	30
11	e(P)	Z	11	11	34		S	ZNE			51
11	e	Z	13	10	08	14	eiP	Z	14	50	49
	e	ZE		14	40		S	ZNE		51	10
	eS	E		20	56	15	P	Z	03	23	30
	eS	N		22	16		e	NE		27	08
	e(S)	ZE		23	48		e	Z		28	20
	e	NE		29	40	15	e	ZN	14	39	40
	e	Z		30	06	15	eP	Z	16	22	26
	e	N		33	08		S	ZNE		23	12
	eL	N		40	06	16	eiP	Z	06	37	12
	eL	ZE		44	48		S	ZNE		39	10
11	eiP	Z	13	54	58		e	E			52
	S	ZNE		55	42		e	ZN		40	24
	T	ZNE		58	45		T	ZNE		48	18
11	eP	Z	14	09	28	17	P?	Z	18	20	58
	e	N		12	16		ei(P)	Z		21	08
	e	Z		13	04		e(S)	ZNE		25	04
	S	ZNE		18	28		e	NE		27	20
	e	Z		21	48		e	Z		28	12
	e	ZE		26	00	17	iP	Z	21	13	58
	L	ZNE		28	08		Dilatation				
11	eiP	Z	15	05	38		i	ZNE		17	56
	S	ZNE		06	28		i	E		24	44
	T	ZNE		09	32		iS	ZN		25	08
12	iP	Z	22	42	06.2		iS	ZE		26	30
	Compression						i	ZNE		31	36
	S	ZNE		43	17		i	N		36	20
12	iP	Z	23	39	24		i	ZE		38	48
	Compression						iL	N		39	34
	S	ZNE		41	08		iL	ZE		44	55
13	(P)	Z	00	27	20						
	S	ZNE		28	25						
13	e(L)	Z	04	36	40						
13	eP	Z	04	45	57						
	S	ZNE		46	46						
13	iP	Z	18	37	16						
	S	ZNE			42						
	T	ZNE		39	15						
14	eiP	Z	03	47	50						
	S	ZNE		48	43						

Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
P.D. Muller
OBSERVER-IN-CHARGE

023

JUL 2 1971



International
Seismological
Centre

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
25 June 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/25

June	18	eP S	Z ZNE	06 15 41 16 23	June	22	e	ZNE	20	22	30
	18	eP S	Z ZNE	14 57 45 59 00		23	No Readings				
	18	eiP e e e	Z E N Z	15 13 26 16 40 17 56 18 32		24	e(P) e(S)	Z NE	06	54 55	21 57
	19	P (S)	Z Z	11 00 00 05 36		24	eS e eL	ZNE N ZNE	14	13 23 26	36 32 24
	20	P e(S)	Z ZNE	02 55 34 03 00 36		25	e e eL	ZNE NE Z	00	09 12	02 04 52
	20	eiP S T	Z ZNE ZNE	10 01 52 02 14 04 20							
	20	iP S	Z ZNE	16 43 37.8 55							
	21	e e	E ZN	01 30 32 24							
	21	eiP S	Z ZNE	18 02 58 03 48							
	21	iP S	Z ZNE	20 12 01 22							
	22	eP S	Z ZNE	02 18 39 19 12							
	22	eP S	Z ZNE	06 04 35 05 33							
	22	eP S	Z ZNE	06 52 16 54 22							
	22	e(P) e(S)	Z ZNE	11 28 56 35 12							

Seismograms interpreted
by I. Anapu
M. Pasefika

P.D. Müller
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JUN 09 1971

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Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
4 June, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/22

DATE	TIME	PHASE	COMPONENT	AMPLITUDE	PERIOD	DATE	TIME	PHASE	COMPONENT	AMPLITUDE	PERIOD
MAY 28	04	e(P) S	Z ZNE	31 32	48 52	MAY 31	02	eP S	Z ZNE	05 06	26 48
MAY 28	07	P S T	Z ZNE ZNE	35 36 38	23 05 40	MAY 31	03	eP S	Z NE	41 42	39 58
MAY 28	14	e(P) S	Z ZNE	08 10	37 26	MAY 31	04	e eL	Z ZN	43 48	40 20
MAY 28	16	iP Compression S	Z ZNE	27 26	07.1	MAY 31	06	e eiP S (T)	Z ZNE ZNE	01 55 57 02	44 57 04 37
MAY 28	18	iP Compression S	Z ZNE	01 03	09 20	JUN. 1	04	(P)	ZNE	33	25
MAY 28	21	eP S	Z ZNE	27 29	10 28	JUN. 1	07	eP S	Z ZNE	17 18	12 48
MAY 29	06	eP S	Z ZNE	40 42	21 42	JUN. 1	12	i(P) Compression	Z	56	41
MAY 29	09	e e	ZN ZN	26 31	16 20	JUN. 1	15	P S	Z ZNE	33 34	50 08
MAY 29	23	eiP S	Z ZNE	09 10	25 40	JUN. 1	17	eiP S	Z ZNE	13 14	42 08
MAY 30	02	eP S	Z ZNE	13 14	23 45	JUN. 2	11	iP Dilatation S	Z ZNE	29	32.2 54
MAY 30	07	(P) (S)	Z ZNE	12 13	35 10	JUN. 2	15	iP Compression S	Z ZNE	48	13.5 45
MAY 30	08	iP Dilatation (S)	Z ZNE	55	16 50	JUN. 3		No readings.			
MAY 30	08	(P) (S)	Z ZNE	55 58	32 04						
MAY 30	09	iP Dilatation (S) (T)	Z ZNE ZNE	11 46 14	19 00						
MAY 30	15	iP Compression S T	Z ZNE ZNE	03 41 05	07.3 30						

Seismograms interpreted
by I. Anapu.
M. Pasefika.

P.D. Muller
OBSERVER-IN-CHARGE

JUL 15 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND.

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
9 July, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/27

Date	Time	Phase	Direction	Mag	Date	Time	Phase	Direction	Mag	Date	Time	Phase	Direction	Mag
JUL. 2	05 10 47	iP	ZNE		JUN. 7	17 02 15	ei(P)	ZNE						
		Compression				17 04 15	(S)	ZNE						
		S	ZNE											
				11 22										
2	05 54 40	eS	ZNE		7	18 46 18	eiP	Z						
	06 03 00	e	N			18 48 03	(S)	ZNE						
		eL	ZE											
				06 12	7	20 26 46.5	iP	Z						
							Compression							
3	00 41 13	eiP	ZNE				S	ZNE						
		S	ZNE											
				34										
3	00 51 25	eiP	ZNE		8	04 57 32	e	ZN						
		S	N			04 59 44	eL	ZE						
		S	ZE											
				43 57	8	11 07 27	P	Z						
3	04 10 03.8	iP	ZNE			11 08 04	S	ZNE						
		Compression												
		iS	ZNE											
				11 53	8	15 48 10	P	Z						
3	12 15 10	eiP	ZNE			15 50 24	S	ZNE						
		S	ZNE											
				17 16	8	17 14 20	e(P)	Z						
3	22 47 03	eiP	ZNE			18 18 12	e	ZNE						
		eiS	ZNE			20 20 44	e	Z						
				48 33		21 21 52	e	E						
						22 22 56	e	N						
4	09 19 36	e	NE		8	18 42 03	e(P)	Z						
		e	NE			18 45 36	e	ZNE						
		eL	Z			18 48 48	e	ZE						
				28 24	8	19 16 53	iP	Z						
4	11 47 24	iP	ZNE				Dilatation							
		Dilatation					i	Z						
		S	ZNE				iS	ZE						
				35			iS	N						
4	11 52 16	e	Z			24 25 28								
		e	ZN											
		eL	ZNE											
				04 08	8	19 30 11	iP	Z						
5	01 25 35	eiP	Z				Dilatation							
		eS	ZNE				S	ZNE						
				29 20										
5	13 05 49	eiP	Z		8	23 49 40	P	Z						
		S	ZNE			23 51 18	iS	NE						
				07 20										
5	23 56 24	e	ZNE											
6	10 46 15.2	iP	Z											
		Compression												
		S	ZNE											
				35										
6	19 09 22	iP	Z											
		Dilatation												
		S	ZNE											
				45										
7	07 41 06	iP	Z											
		Compression												
		eiS	NE											
				25										
7	12 42 48	eP	Z											
		(S)	NE											
				44 17										
7	15 54 36	P	Z											
		S	ZNE											
				56 30										

Seismograms interpreted
by I. Anapu.
M. Pasefika.

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JUL 22 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
16 July, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/28

JUL. 9	iP	Z	03	16	22	JUL. 11	eL	ZNE	22	43	20
	Compression										
	S	ZNE		26	50	11	eL	ZE	23	21	40
	L	NE		40	40		eL	N		24	08
9	P	Z	08	41	15	12	e(L)	ZNE	09	33	52
	S	ZNE		42	50	12	eP	Z	13	09	33
9	e(P)	Z	09	56	25		eS	ZNE		15	44
	eL	N	10	04	08		eL	ZNE		18	44
	eL	ZE		06	24	12	eL	ZN	16	19	40
9	iP	Z	12	29	28	13	eP	Z	04	14	49
	Dilatation						S	ZNE		15	42
	iS	ZNE		31	05		T	ZNE		19	30
	T	ZNE		34	30	13	iP	Z	07	04	59
9	e	ZN	17	21	48		Compression				
9	e	ZNE	19	39	12		S	ZNE		05	19
	e	Z		45	40	13	eP	Z	10	28	27
	e	ZNE		57	32		S	ZNE		30	11
	eL	ZE		59	12	13	eP	Z	17	24	05
	eL	N	20	02	10		S	ZNE		25	47
10	iP	Z	05	30	31.5	14	eiP	ZNE	06	18	18
	Compression					14	ei(P)	ZNE	07	44	12
	e	Z		35	56		(S)	ZNE		48	00
	eL	N		38	12	14	eL	N	12	06	06
	eL	ZE		40	16		eL	Z		08	32
10	eP	Z	12	04	31	14	e(P)	Z	12	37	02
	e(L)	ZE		18	16		e	N		44	24
10	eL	ZE	13	48	32		e(L)	Z		46	30
10	iP	ZNE	15	41	20.5	14	e	ZN	14	44	08
	Dilatation						e	N	15	07	36
10	eL	Z	22	13	56		e	Z		08	46
11	e(P)	Z	10	04	44	14	e(P)	Z	15	10	40
	S	ZNE		15	32	14	eP	Z	17	44	50
	e	ZNE		16	48		e	Z		45	40
	e	N		21	24		e	ZN		51	12
	e	Z			52		iL	N		54	36
	e	ZN		28	49		iL	Z		55	52
	eL	E		33	12	14	eP	Z	18	34	39
	eL	ZN		37	54		S	ZN		40	20
11	eP	Z	11	49	33		iL	ZN		43	56
	S	ZNE		50	00	14	eiP	Z	19	40	10
	(T)	ZNE		53	00		e	ZN		43	28
11	iP	Z	15	36	44		e	N		48	08
	Dilatation						e(L)	Z		50	04
	S	ZNE		37	20		(L)	N		52	00
11	eP	Z	20	32	39						

		2.				
JUL.	14	e(P)	Z	23	10	30
		e(S)	Z		19	16
		e	N		26	00
		e	ZN		31	44
		e	ZN		33	16
		e	ZN		36	28
		e(L)	Z		42	40
	15	e	N	00	27	40
		e(L)	Z		30	20
	15	eL	ZE	02	31	28
	15	eL	ZNE	02	57	40
	15	eiP	Z	02	58	48
		S	ZNE		59	33
	15	eiP	Z	07	27	57
		S	ZNE		28	46
		T	ZNE		32	42
	15	e(L)	ZE	11	47	52
	15	eiP	Z	14	04	10
		e	N		12	28
		e	ZE		13	44
	15	eiP	Z	16	25	52
		S	ZNE		26	30
	15	eiP	Z	18	18	44
		S	ZNE		21	10
	15	eP	Z	18	27	24
		S	ZNE		28	14
	15	e	Z	20	19	28
		e	Z		35	36
		e	N		36	32
	16	eiP	Z	00	32	06
		S	ZNE		33	42

Seismograms interpreted
by I. Anapu.
M. Pasefika.

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P.D. Muller
OBSERVER-IN-CHARGE

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
23 July, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/29

JUL. 16						JUL. 19					
	eL	ZNE	03	10	32		eP	Z	00	21	33
16	eiP	Z	07	54	30		iS	ZNE		27	04
	e	Z	08	00	24		i	N		29	26
	eL	N		02	40	19	eiP	Z	06	02	53
	eL	E		04	14		S	ZNE		03	12
16	iP	Z	13	26	25	19	e	N	06	11	16
	Compression						e	ZE		13	24
	eL	N		35	16	19	e	ZE	08	40	40
	eL	ZE		37	40	19	e	N	10	14	34
16	iP	Z	14	12	30.3		e	ZE		17	24
	Compression					19	eiP	ZNE	14	56	43
	e	Z		24	36		e	N	15	03	20
	eL	ZE		28	14		e	NE		06	40
16	eP	Z	20	08	04		e	ZE		11	52
	S	ZNE		09	05	19	P	ZNE	15	45	02
16	ei(P)	ZNE	21	09	17		S	ZNE		51	00
16	e	Z	22	02	52		i	Z		52	56
	eL	ZE		04	36		iL	N		53	48
16	e(L)	ZN	22	-48	40		iL	ZE		55	24
17	e	N	03	00	20	19	iP	Z	16	45	14.5
	e	Z		04	52		Compression				
	e	NE		05	40		S	ZNE			37
17	eL	N	03	29	28		T	ZNE		47	13
	eL	E		33	12	19	eiP	ZNE	17	10	14
17	e	NE	06	54	24		S	ZNE			54
	eL	ZNE		57	52		T	ZNE		13	40
17	iP	Z	08	49	13	19	eP	Z	18	41	41
	Compression						S	ZNE		43	49
	S	ZNE			33	20	e	ZE	02	57	12
17	eL	ZN	20	39	36	20	eL	ZNE	07	03	24
17	eiP	ZNE	23	40	32	20	eiP	ZNE	09	52	32
	S	ZNE		41	03		S	ZNE		53	16
18	e(L)	ZNE	09	44	52		L	ZNE		54	00
18	iP	Z	11	06	46.3		T	ZNE		56	15
	Compression					20	P	Z	13	13	01
	S	ZNE		08	31		S	ZNE			32
18	P	Z	13	35	57	20	eP	Z	14	21	41
	S	ZNE		36	32		S	ZNE		22	20
							T	ZNE		25	20
18	eP	Z	14	38	12	20	e	Z	15	24	20
	S	ZNE		44	00	20	eL	Z	16	04	62
	iL	ZN		46	24	20	eiP	ZNE	17	37	09
	iL	E		48	50		iS	NE		39	23
18	eL	ZE	19	56	32	20	e	ZN	19	12	12

JUL.	20	eiP eL	Z ZNE	21	32 42	43 24
	20	P S T	Z ZNE ZNE	23	23 24 27	53 40 37
	20	eiP S	Z ZNE	23	36 37	32 12
	21	eiP S T	Z ZNE ZNE	00	35 37 48	13 16 05
	21	eiP S	Z ZNE	01	57	17 59
	21	eiP S L eL	Z ZN N ZE	12	10 15 19	09 56 00 44
	21	iP Compression S	Z ZNE	13	38	21 37
	21	eL	ZE	19	13	28
	22	e e	N ZE	09	08 09	20 28
	22	ei(P)	Z	22	18	15
	22	e e e	N E ZE	23	27 28 30	48 40 48
	23	e e	N ZE	00	10 13	36 20

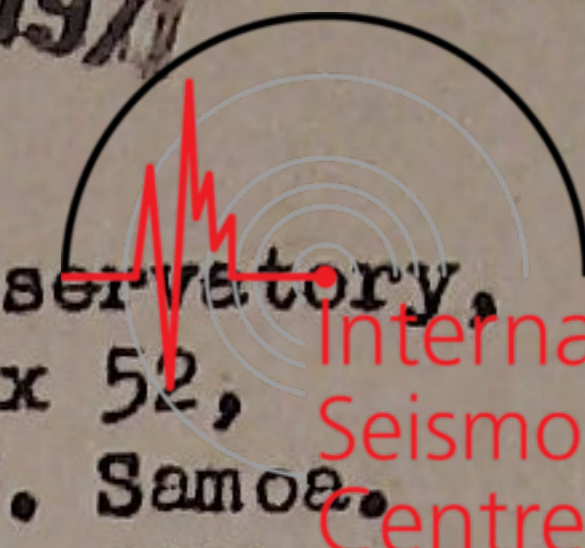
Seismograms interpreted
by I. Anapu.
M. Pasefika.

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P.D. Muller
OBSERVER-IN-CHARGE

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

AUG 06 1971

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
30 July, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/30

JUL.	Time	Type	Dir	Mag	Mag	JUL.	Time	Type	Dir	Mag	Mag
23	eP	Z	03	57	11	26	eiP	Z	02	06	11
	S	ZNE		58	30	26	iP	Z	02	09	45.6
23	iP	Z	06	47	37		Dilatation				
	S	ZNE		49	08	26	eiP	Z	02	26	28
23	eiP	ZNE	13	25	25	26	iP	Z	02	32	00.7
	S	ZNE		26	04		Compression				
	T	ZNE		28	56	26	eiP	Z	03	17	12
23	e(P)	ZNE	15	29	03	26	eiP	Z	04	26	12
24	eP	Z	10	19	43	26	iP	Z	06	30	56.7
	e	ZNE		23	32		Compression				
	e	NE		25	48		iS	NE		32	34
24	eiP	ZNE	12	50	05	26	eP	Z	06	34	52
	S	ZNE			50		S	ZNE		36	30
	T	ZNE		53	53	26	eiP	Z	07	06	32
24	(P)	Z	16	02	02	26	eiP	Z	09	42	10
	(S)	ZNE		04	00	26	eiP	Z		44	22
24	ei(P)	ZNE	18	01	20		(S)	NE			
25	eiP	ZNE	02	24	11	26	eiP?	Z	15	42	48
	S	ZNE		26	50		eP	Z			57
	(T)	ZNE		29	51	26	eiP	Z	19	22	41
25	eiP	ZNE	13	02	52	27	eiP	ZNE	05	41	07
	iS	ZN		11	56		e	Z		55	44
	eS	E		12	28	27	e	Z	06	51	20
	e	ZN		15	40		e	Z		53	48
	e	N		20	00	27	eiP	Z	07	42	47
	eL	ZNE		23	20		eS	Z		48	40
25	iP	Z	15	52	14		e	Z		51	24
	Dilatation						e(L)	Z		52	30
	S	ZNE	16	01	24	27	e	Z	09	28	48
	L	ZN		12	00		e	Z		30	12
25	P	Z	16	08	08		e	Z		35	24
	S	ZNE		09	29		e	Z		40	48
	(T)	ZNE		19	40	27	e	Z	11	41	12
25	e	N	18	36	20		eL	Z		50	56
	e	ZE		40	28	27	eL	Z	13	04	36
25	e	ZNE	20	09	40	27	e	Z	13	32	28
25	eiP	Z	22	31	30		e	Z		40	32
	e(L)	ZNE		40	06		e	Z		42	20
26	iP	ZE	01	30	16	27	e	Z	14	15	20
	Compression						eL	Z		19	28
	ei	ZNE			43	27	e	Z	15	12	54
26	ei(P)	Z	01	36	35		e	Z		17	40
26	ei(P)	Z	01	45	01		eL	Z		19	16
26	ei(P)	Z	01	57	40	27	eL	Z	16	23	44
26	eiP	Z	02	00	46						

2.

JUL.	27	iP Compression S	Z ZNE	18	20 21	48 19
	27	eS eL	Z Z	18	21 28	44 16
	27	eiP	ZNE	20	54	57
	28	eiP S	Z ZNE	05	45 47	36 10
	28	eiP S	Z ZNE	06	17 18	53 13
	28	eiP e e(L) L	Z ZNE ZNE Z	07 08	56 04 04 10	07 56 48 54
	28	eiP	ZNE	10	24	30
	28	eiP e eL	Z N ZE	13	21 31 33	30 48 22
	29	eL	ZNE	03	58	00
	29	e e eL	Z ZE ZE	10	31 35 37	28 40 08
	29	iP Compression	ZNE	11	53	11
	29	eL	ZNE	13	04	00
	29	eL	ZNE	14	18	00
	29	e(P) S	Z ZNE	15	30 31	42 53
	29	iP Compression	ZNE	20	05	03.9
	29	e(S) eL	ZN ZN	22	38 48	12 32

Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
P.D. Muller
OBSERVER-IN-CHARGE

JUL 8 1971

023

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52, International
Apia, W. Samoa. Seismological
2 July, 1971. Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/26

JUN. 25	eiP S	Z ZNE	07	24 25	13 11	JUN. 29	e(L) iP Compression S	ZN Z ZNE	14 18	35 11	40 38
26	eiP	Z	09	29	54	29	P e(S) e	Z ZN ZE	20	10 14 15	07 10 48
26	eP e e	Z ZN ZE	16	24 28 30	36 40 16	29	30	Z ZN ZE	03	21	53
26	e(P) (S)	Z ZNE	19	31 33	43 33	30	30	Z ZNE	07	06 07	40 48
26	eP eS e e eL	Z NE NE N N	19 20	40 51 57 00 03	16 12 16 20 44	30	30	Z ZNE N ZE	18	03 04	49 10
27	eP S T	Z ZNE ZNE	01	34 35 37	57 31 33	JUL. 1	1	Z ZNE	01	25	55
27	eiP S	Z ZNE	03	15	11 42	1	1	Z ZNE ZNE	01	51 52	24 06
27	eP S T	Z ZNE ZNE	08	34 35 36	50 15 53	1	1	Z ZNE ZNE	02	37 49	28 36
27	P S T	Z ZNE ZNE	10	49 50 53	49 27 04	1	1	Z ZNE ZN E	09	40 44 46	40 56 54
27	eiP S	Z ZNE	14	25 28	51 19	1	1	Z ZNE	11	58	33.5
27	e e e	ZE ZN Z	18	05 09 12	32 08 48	1	1	Z ZNE	17	48	55.6
28	e(P) e(S)	Z ZNE	11	58 59	40 28	1	1	Z ZNE ZNE	49 51	44 26	
28	eP eS	Z ZNE	19	03 05	40 40						
28	iP Dilatation eS eS	Z NE Z	20	41 45 46	35 28 44						
29	P S T	Z ZNE ZNE	03	10 11 13	30 03 40						
29	(P) e(S)	Z ZNE	09	27 30	50 20						
29	ei(P) S T	Z ZNE ZNE	09	28 29 34	14 27 50						

Seismograms interpreted
by I. Anapu.
M. Pasefika.

P.D. Müller
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Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

AUG 18 1971

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa
13 August, 1971.

International
Seismological
Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/32

AUG.	Time	Phase	Station	Time	Phase	Station	Time	Phase	Station	Time	Phase	Station
6	09 28 32	eiP	Z	10 04 31	P	Z	10 04 31	00				
		eiS	ZNE		e	ZE						
6	10 18 52	e	N	10 36 40	e	ZE						
		eL	ZE	10 39 36	e	NE						
6	14 56 24	e(L)	ZE	10 42 44	i	E						
6	15 19 40	eL	ZE	10 43 16	eL	ZN						
6	22 54 16	iP	ZNE	10 41 08	eP	Z	04	41	08			
		Compression		10 42 34	S	ZNE		42	34			
		S	ZNE	10 49 10	T	ZNE		49	10			
				10 44 48	eP	Z	14	44	48			
7	04 17 20	eP	Z	10 50 20	e	ZN		50	20			
		eiS	ZNE	10 51 03	i	ZE		51	03			
		eT	ZNE	10 52 48	e	ZNE		52	48			
7	05 52 24	iP	ZNE	10 54 20	i	ZE		54	20			
		Compression		10 55 52	i	Z		55	52			
		S	ZNE	10 58 28	iL	ZE		58	28			
				10 09 40	e	NE	23	09	40			
7	06 57 53	eiP	ZNE	10 10 36	eL	Z		10	36			
		e	Z	11 03 08	eiP	Z	00	03	08			
		e	ZNE	11 05 32	e	ZNE		05	32			
		e	ZNE	11 06 32	i	Z		06	32			
7	08 55 58.6	iP	ZNE	11 03 45	eiP	Z	05	03	45			
		Dilatation		11 32 54	e	ZN	14	32	54			
		S	ZNE	11 34 56	eiS	ZNE		34	56			
8	16 46 58	iP	Z	11 40 40	e	E		40	40			
		Compression		11 44 20	i	E		44	20			
9	12 18 43	iP	ZNE	11 46 10	e	ZN		46	10			
		Compression		11 47 32	eL	ZN		47	32			
		ei	Z	11 50 16	iL	ZN		50	16			
		i(PPP)	Z	11 02 42	eiP	Z	16	02	42			
		eS	ZNE	11 03 29	S	ZNE		03	29			
		e(SSS)	ZNE	11 08 39	eiP	Z	16	08	39			
		iL	ZE	11 09 32	S	ZNE		09	32			
9	16 37 30	iP	Z	11 54 36	e	ZNE	17	54	36			
		Dilatation		11 00 04	e	E	18	00	04			
		eiS	ZNE	11 01 28	e	ZN		01	28			
9	20 08 44	iP	ZE	11 04 20	eL	ZNE		04	20			
		Dilatation		11 05 42	eP	Z	23	05	42			
		ei	ZE	11 06 10	S	ZNE		06	10			
		i	ZE	12 20 57	eiP	Z	13	20	57			
		i	N	12 21 56	S	ZNE		21	56			
		e	Z	12 32 10	eiP	Z	14	32	10			
		iL	ZE	12 42 08	eS	ZNE		42	08			
9	21 36 34	eP	Z	12 46 30	e	Z		46	30			
		S	ZNE	12 50 20	e	N		50	20			
		T	ZNE	12 53 40	eL	ZNE		53	40			
9	23 23 18	eiP	Z									
		eS	ZNE									

P.D. Muller
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AUG 25 1971 23

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
20 August, 1971.

International
Seismological
Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/33

AUG. 13	eP	Z	14	49	05	AUG. 15	e	ZNE	22	47	32
	e	ZE		54	32						
	eL	ZNE		56	40	15	eiP	Z	22	52	28
							S	ZNE		53	40
13	eiP	ZNE	16	55	33	16	ei(P)	ZNE	01	01	46
	e	ZE		57	14						
	e	ZNE	17	01	08	16	eL	Z	05	41	40
	eL	NE		03	24						
	L	Z		08	00	16	eiP	Z	08	03	18
							eS	ZNE		04	28
13	eiP	Z	19	18	25	16	eL	ZE	10	46	12
	S	ZNE		19	55						
13	eL	N	20	44	20	16	e	ZNE	11	56	52
	eL	ZE		46	12	16	eL	Z	16	21	20
13	eL	ZNE	21	37	16	16	eL	Z	19	37	40
13	eL	N	22	29	12	16	e	E	19	47	40
	eL	ZE		31	12		e	ZN		48	32
14	iP	Z	00	19	48.5	17	e	ZNE	03	57	40
	Compression										
	S	ZNE		23	28	17	e	ZNE	07	06	52
14	iP	Z	00	27	21	17	e	E	14	22	52
	Compression										
14	eiP	Z	07	36	48	17	P	Z	23	47	12
	S	ZNE		37	22	18	e	ZNE	01	29	08
14	eiP	Z	09	03	05	18	(S)	ZNE	06	25	00
	i	ZNE		04	12						
14	eiP	Z	11	25	03	18	ei(P)	Z	10	47	10
	S	ZNE		26	12	18	eL	ZE	10	57	20
14	ei(P)	ZNE	11	38	46	18	eiP	Z	12	53	40
14	e	ZNE	19	12	40		eS	ZNE		55	44
14	e	ZNE	20	18	28	18	eiP	Z	14	04	35
14	e(L)	ZNE	21	25	28		(S)	ZNE		05	30
15	e	ZNE	01	17	52	18	e	ZNE	14	05	52
15	e	ZNE	08	02	12		e	N		11	52
15	eiP	Z	08	50	49		e	ZE		12	08
	S	ZNE		51	35	18	P	Z	14	10	50
15	eiP	Z	10	01	10		S	ZNE		11	50
	eS	ZNE		02	12						
15	e	NE	10	32	52	18	eiP	Z	23	14	25
15	e	ZNE	11	01	56		S	ZNE		15	07
15	eiP	Z	12	08	10	19	eiP	Z	07	00	40
	eS	ZNE		09	08		S	ZNE		02	12
15	e	ZNE	14	23	12	19	eiP	Z	08	40	36
	e	ZNE		28	36		eS	ZNE		51	12
15	eiP	Z	14	54	12		eL	ZNE	09	03	40
	S	ZNE		55	16						
15	eiP	Z	15	01	17	19	eiP	Z	11	51	44
	S	ZNE			37		e	Z		55	52
15	e(L)	ZNE	17	37	12		e	N		56	20
15	eL	ZE	19	50	40		e	ZE		57	24

2.



AUG.	19	eiP	Z	13	15	15
		eL	ZNE		25	48
	19	eP	Z	22	26	48
		eS	ZNE		35	50
		e	Z		39	56
		eL	E		43	24
		eL	ZN		46	52
	20	eiP	Z	00	18	43
		S	ZNE		19	00

Seismograms interpreted
by I. Anapu.
M. Pasefika.


"
P.D. Muller
OBSERVER-IN-CHARGE

SEP 1 1971

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
27 August, 1971.



International
Seismological
Centre

STATION: AFIAMALU

LATITUDE 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/34

DATE	TIME	TYPE	AMPLITUDE	PERIOD	DATE	TIME	TYPE	AMPLITUDE	PERIOD
AUG. 20	01 58 09	eiP Z	01	58	09	AUG. 23	eS ZNE	22	15
		S ZNE		59	20		e Z		19
		T ZNE	02	04	32		e ZE		23
							eL ZNE		26
20	04 33 53	eiP Z	04	33	53				
		S ZNE		34	38	24	eiP Z	01	29
							S ZNE		31
20	21 48 33	eiP Z	21	48	33				
		e ZE		59	40	24	eL ZE	08	50
		e ZE	22	04	24				
		e N		10	48	24	eiP Z	12	43
		eL ZNE		13	40		S ZNE		44
21	10 28 10	ei(P) Z	10	28	10	24	eiP Z	13	36
		e ZN		32	08		e Z		41
		e ZNE		33	16		e ZN		44
							eL ZE		46
21	15 51 20	e ZNE	15	51	20	24	e(L) ZNE	22	23
21	16 04 20	ei(P) Z	16	04	20				
		e Z		09	32	25	e Z	07	19
		e ZNE		11	56		e(L) ZNE		22
		eL N		14	52	25	e E	10	28
		eL ZE		15	48				
21	22 17 53	eiP ZNE	22	17	53	25	eiP ZNE	18	47
		S ZNE		19	00		e ZE	20	08
		e ZNE			30		e(L) E		14
		T ZNE		24	05	25			
22	03 42 04	eP Z	03	42	04	26	eL Z	00	04
		(S) ZNE		43	35		eL ZE	02	18
22	09 19 05	iP Z	09	19	05	26	e ZE	03	32
		Dilatation				26	iP Z	09	33
		S ZNE		20	35		Dilatation		32.8
22	10 46 23	iP Z	10	46	23	26	S ZNE		34
		S ZNE			48		e ZN	11	39
22	16 30 48	e Z	16	30	48		e Z		42
22	16 42 04	ei(P) Z	16	42	04		eL ZN		44
22	21 58 24	iP Z	21	58	24	26	iP Z	17	32
		Dilatation					Compression		45.5
		S ZNE			43		S ZNE		33
23	04 15 57	eiP Z	04	15	57	26	eiP ZNE	17	38
		S ZNE		22	24		e N		41
		e Z		25	28		e ZE		42
		e NE		26	16		e ZE		43
		eL ZE		28	20		e N		44
23	10 16 15	eiP Z	10	16	15	26	eiP Z	19	07
		S ZNE		18	20		S ZNE		08
23	15 42 57	eiP Z	15	42	57		(T) ZNE		14
		S ZNE		44	42	26	e(S) ZNE	23	49
23	18 52 06	e ZNE	18	52	06		e(L) ZNE	00	02
									48

P.D. Muller
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AUG 1 1971

023

Geophysics Division

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia,
W. Samoa.
6 August, 1971.
International
Seismological
Centre

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/31

DATE	TIME	TYPE	DIR	1	2	DATE	TIME	TYPE	DIR	1	2	3
JUL. 30	04	e	Z	14	16	AUG. 1	16	ZE		23	12	
30	05	iP	Z	00	48	e		N		25	32	
		Dilatation				eL		ZE		26	54	
		S	ZNE	01	20	1	e	ZE		17	02	44
30	06	eiP	Z	25	10	1	e	ZN		22	05	16
		eS	ZNE	30	44	e		E		08	36	
		eL	ZNE	33	28	eL		Z		10	28	
30	13	eP	Z	31	19	2	eiP	Z		00	17	23
		eS	ZNE	36	56	S		ZNE				57
		eL	ZNE	39	48	2	e	ZE		00	29	32
30	15	eiP	Z	41	45	e		ZN		35	20	
		S	ZNE	42	32	e		E		36	34	
30	18	eL	Z	46	44	2	eL	ZNE		05	04	44
		eL	NE	47	34	2	iP	Z		07	35	57
30	20	e	Z	48	16	Dilatation						
		e	Z	59	40	S		ZNE		45	00	
		e	NE	21	02	i		ZE		49	24	
		e	E	03	40	i		ZNE		52	52	
		e	Z	04	00	L		ZNE		56	00	
		e	ZE	05	40	2	e	ZE		13	20	32
		eL	ZE	09	22	e		Z		31	36	
30	23	e	N	11	08	2	eiP	ZNE		14	12	49
		e	ZE	15	48	S		ZNE		14	34	
31	00	e	Z	54	28	2	eiP	Z		16	15	20
31	08	eiP	Z	58	50	(S)		ZNE		16	07	
	09	S	ZNE	00	32	2	e	ZNE		19	22	56
31	15	eL	ZE	38	20	2	eiP	ZNE		21	54	27
31	18	e	ZNE	29	16	(S)		ZNE		56	11	
31	19	e	N	03	48	3	eiP	Z		03	46	49
		eL	ZE	10	24	S		ZNE		47	30	
31	20	e	ZE	20	16	3	e	ZE		05	04	20
31	21	e	ZNE	26	24	3	e	NE		14	07	40
31	21	eiP	Z	38	08	eL		Z		10	08	
		(S)	ZNE	39	36	3	eiP	Z		16	33	25
31	22	e	Z	50	52	S		ZNE				45
		e	E	51	40	T		ZNE		35	15	
		e	N	52	40	3	e(S)	ZNE		17	07	06
31	23	e	N	31	28	e		E		09	30	
		e	Z	34	08	eL		Z		11	44	
		eL	ZE	36	08	3	e	NE		19	33	16
AUG. 1	02	eiP	Z	17	15	e		Z		37	08	
1	02	eL	ZN	37	40	3	e	Z		23	20	36
						e(S)		N		23	44	
						e(L)		ZE		25	44	

2.

AUG.	4	eiP	Z	00	43	06
	4	e	Z	00	56	42
		eL	ZNE	01	00	44
	4	e(L)	Z	01	22	44
	4	eiP	Z	04	43	10
		S	ZNE			54
	4	e(S)	ZN	19	24	04
		eL	ZN		33	48
		eL	E		34	12
	4	e	E	23	16	40
		e	ZN		18	20
	5	ei(P)	Z	02	18	37
		i	N		41	12
		i	ZE			48
		i	ZE		46	32
		i	NE		59	56
		iL	ZE	03	07	56
	5	eiP	Z	06	27	13
		S	ZNE		28	10
	5	eiP	Z	09	04	50
		S	ZNE		05	15

Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
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SEP 16 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
10 September, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

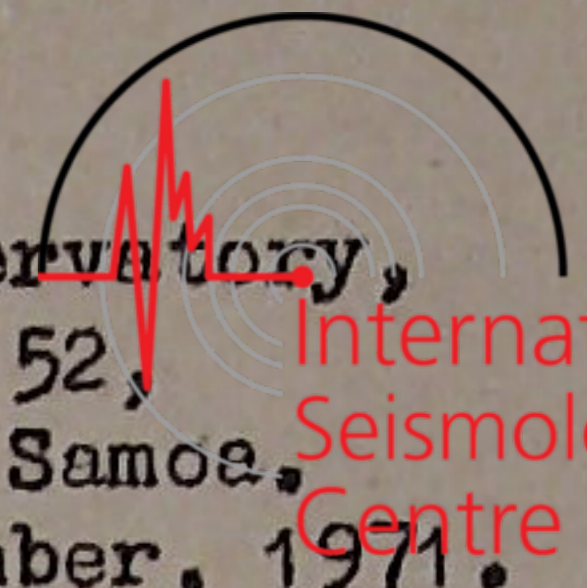
INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION:

PRELIMINARY SEISMIC BULLETIN 71/36

SEPT. 3		Z	07	00	11.0	SEPT. 6	(S)	NE	10	31	00
	iP	Z									
	Dilatation										
	S	ZNE	07	00	32.0	6	eL	NE	14	10	44
3	eiP	ZNE	15	59	48	6	eiP	Z	21	34	56
	S	ZNE	16	00	20		S	ZNE	21	36	05
	T	ZNE	16	02	11		T	ZNE	21	43	45
3	iP	Z	23	29	21.5	7	eiP	Z	00	10	13
	Compression						S	ZNE			38
	S	ZNE			40						
	Felt at Apia MM III					7	iP	Z	06	32	31
							iS	NE		33	04
4	e	E	11	53	40	7	S	ZNE	06	32	55
	e	Z	11	54	24		e	ZN		34	12
4	ei(P)	Z	16	04	19		T	ZNE		42	00
4	iP	Z	20	09	47	7	iP	Z	14	49	55
	Compression						iS	NE		51	24
	S	ZNE			10 05						
4	iP	Z	23	04	39	8	e	ZN	03	51	20
	Compression										
5	e	Z	00	42	44	8	e	Z	10	57	40
5	e	ZNE	03	15	40	8	(P)	Z	12	00	00
	eL	ZNE	03	18	16		e	Z		08	12
5	eL	ZNE	04	55	40		e	N		09	25
5	e(S)	ZNE	05	13	56		e	Z		14	20
5	e(L)	ZE	09	52	20		e	ZN		17	52
5	eL	ZN	15	28	32		e	ZN		19	24
5	eiP	ZNE	18	47	05	8	eiP	Z	17	08	31
	iS	NE		57	08		S	ZNE	17	09	55
	i	Z	19	01	20						
	iL	E	19	05	10						
	L	ZN		09	00						
5	e	ZNE	22	52	20	8	e	N	17	21	04
	e(S)	ZN	22	59	28		e	N	17	30	50
	eL	ZE	23	01	48	9	iP	Z	04	06	19.5
6	eL	ZN	07	19	40		Dilatation				
							S	ZNE			40
6	e(P)	ZNE	09	48	42	9	eiP	Z	05	41	50
	(S)	NE	09	49	44		S	ZNE	05	42	10
6	i(S)	NE	10	09	50	9	e	Z	08	52	20
						9	e(L)	ZE	09	32	12

07/33



SEPT.	9	eiP S	Z ZNE	15 15	04 05	37 27
	9	eiP S	Z ZNE	15 15	07 08	35 29
	9	eiP iS T	Z NE ZNE	19 19 19	06 07 09	56 30 25
	9	eL	ZN	20	32	40
	9	eiP S e eL eL	Z ZNE ZNE NE Z	23 23 23 23	12 21 25 28 31	04 00 12 48 40
	10	ei(P)	ZNE	00	00	05

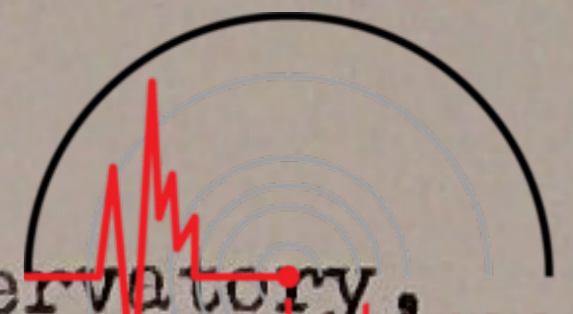
Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
P.D. Müller
OBSERVER-IN-CHARGE

SEP 22 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa
17 September, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/37

SEPT. 10	iP Dilatation S (L) T	Z ZNE ZNE ZNE	06	30	27	SEPT. 14	eiP S T	Z ZNE ZNE	07	23	33	
				31	41					24	03	
				32	00					25	52	
				37	20	14	iP Dilatation S	Z ZNE	10	38	10.9	
10	eiP S	Z ZNE	07	04	28							38
				05	20							
10	iP Dilatation S	Z ZNE	10	12	13	14	eiP S (L) T	ZNE ZNE ZNE ZNE	14	09	32	
				13	00					10	45	
										11	00	
										16	25	
10	eiP S	Z ZNE	13	54	47	14	e e	ZNE ZNE	18	33	40	
				56	32					37	16	
11	eiP S	Z ZNE	14	54	55	14	eL	ZNE	21	03	36	
				55	20							
11	eiP S T	Z NE ZNE	17	17	30	15	eiP S	Z ZNE	10	44	21	
				18	01					45	13	
				20	12	15	eiP S T	ZNE ZNE ZNE	10	48	58	
11	eiP S	Z ZNE	19	23	50					49	30	
				24	11					51	27	
12	eiP S (L) L T	ZNE ZNE E ZN ZNE	08	09	54	15	e(S) eL	ZNE ZNE	13	49	20	
				12	13					59	14	
				13	12	15	(P) eS eS e e(L) eL	Z ZN E Z E ZN	15	06	00	
				19	34					14	56	
										15	16	
										19	16	
										22	58	
										25	24	
12	ei(P) (S)	Z ZNE	16	44	53	15	iP Dilatation S	Z ZNE	15	31	31.6	
				47	12					33	18	
13	P S	Z ZNE	01	19	36							
				20	11							
13	e(L)	Z	02	39	54	16	iP Dilatation S e	Z ZNE ZNE	06	32	15	
14	iP Compression eS eL eL eL	Z ZNE N E Z	03	10	05.3							
				15	20					40	40	
				17	52					46	40	
				18	24							
				19	00							
14	iP S L iL	Z ZNE NE Z	05	27	36							
				33	20							
				36	08							
				39	48							

Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
P.D. Muller
OBSERVER-IN-CHARGE

C 23 SEP 29 1971

Geophysics Division
 DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
 NEW ZEALAND



Apia Observatory,
 P.O. Box 52,
 Apia, W. Samoa.
 24 September, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/38

SEPT. 17	eiP	Z	13	56	07	SEPT. 22	e(S)	ZE	14	36	52
	S	ZNE		57	54		eL	N		48	56
	iL	E		58	36		eL	ZE		51	52
	L	ZN		59	00						
	T	ZNE	14	06	50	22	eL	ZE	22	57	14
17	eiP	Z	14	22	45	23	iP	Z	00	09	49
	S	ZNE		24	01		Dilatation				
	(L)	ZN		25	00		S	ZNE		10	14
17	eiP	Z	15	54	49	23	eiP	Z	03	30	53
	S	ZNE		55	23		S	ZNE		31	48
18	iP	Z	00	45	38	23	P	Z	09	54	41
	Dilatation						S	ZNE		55	00
	S	ZNE		46	00						
18	eiP	Z	03	03	32	23	eiP	Z	22	52	17
	S	ZNE		05	12		S	ZNE		54	02
	L	ZNE		06	24	24	eiP	Z	00	05	52
18	eiP	Z	03	43	13		S	ZNE		07	25
	S	ZNE			40						
18	eiP	Z	16	03	05						
	S	ZNE			27						
19	eiP	ZNE	10	02	31						
	S	ZNE		04	16						
20	eL	ZN	07	17	20						
20	e	NE	08	32	40						
20	iP	Z	10	21	23						
	Compression										
	S	ZNE			51						
20	eiP	Z	20	15	08						
	S	ZNE			51						
21	eiP	Z	05	06	19						
	S	ZNE		07	35						
	eL	ZE		09	40						
	L	N		10	00						
22	eiP	Z	07	29	30						
	eS	NE		33	40						
	eL	ZE		35	08						

Seismograms interpreted
 by I. Anapu.
 M. Pasefika.

"
 P.D. Muller
 OBSERVER-IN-CHARGE

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

SEP 9 1971

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
3 September, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/35

DATE	TIME	STATION	TYPE	AMPLITUDE	PERIOD	DATE	TIME	STATION	TYPE	AMPLITUDE	PERIOD
AUG. 27	05 28 20	e	ZE			SEPT. 1	09 33 27	ei(P)	Z		
								(S)	ZNE		
27	09 32 28	e	ZE								
		e	N	33	32	1	12 37 31	ei(P)	Z		
27	20 58 15	eiP	Z					e	ZN	43	20
		S	ZNE	59	09			e	ZNE	45	52
27	20 59 52	e(L)	ZNE					eL	ZE	48	08
28	00 26 04	eiP	Z			1	14 04 25	ei(P)	Z		
		S	ZNE		23						
28	03 07 38.5	iP	Z			1	17 14 55	eiP	Z		
		Compression						S	ZNE	17	23
		S	ZNE	09	25	1	18 54 59	eiP	ZNE		
28	03 53 45	eiP	Z					S	ZNE	55	21
		S	ZNE	54	31						
		T	ZNE	57	40	1	20 24 44	e(P)	Z		
28	04 10 22	eiP	Z					e	Z	26	20
		S	ZNE	11	20			e	ZE	30	20
28	11 11 20	eL	ZNE					e	ZNE	33	00
28	16 18 40	e(S)	ZNE					eL	ZE	34	28
		e(L)	ZE	29	16			eL	N	36	20
29	03 54 28	eS	ZE			1	23 04 12	eL	ZNE		
		eL	ZE	04	40	1	23 33 12.5	iP	Z		
29	09 10 22	iP	ZNE					Compression			
		S	ZNE	11	23			S	ZNE		59
30	06 39 02	P	Z			2	05 23 06.5	iP	Z		
		S	ZNE		50			Compression			
		eT	ZNE	43	53			S	ZNE		27
30	22 57 52	eS	NE			2	08 41 23	eiP	Z		
		eL	NE	23	40			S	ZNE	42	00
		eL	Z	08	52						
31	01 05 57	eiP	Z			2	16 18 35	eiP	Z		
		S	ZNE	07	00			S	ZNE	20	19
31	14 47 34	eiP	Z			2	23 50 20	eiP	ZNE		
		S	ZNE	48	20			S	ZNE	52	16
		T	ZNE	51	25			L	ZN	53	20
31	18 20 27	eiP	Z					T	ZNE	58	15
		S	ZNE		55						
31	21 15 00	P	Z								
		S	ZNE		16						
		L	ZNE		17						
		T	ZNE		21						
SEPT. 1	01 25 48	e	ZN								
		e	ZN		29						
		e	ZN		32						
1	02 39 48	e(S)	ZNE								

Seismograms interpreted
by I. Anapu.
M. Pasefika.

P.D. Muller
OBSERVER-IN-CHARGE

C23

OCT 18 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.
8 October, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/40

OCT. 1	eiP	Z	03	50	15	OCT. 4	eL	N	15	59	44
	S	ZNE		51	42		eL	ZE	16	00	48
1	eiP	Z	05	23	22	4	P	Z	20	41	00
	e	E		25	42		S	ZNE			25
	e(S)	NE		29	44		T	ZNE		43	13
	eL	NE		32	24						
1	iP	Z	06	18	22	5	iP	Z	05	37	44
	Compression						Compression				
	S	ZNE			31	5	eiP	Z	23	05	41
							S	ZNE		06	02
1	eiP	ZNE	11	32	46	6	eiP	Z	07	17	51
	eS	NE		36	24		S	ZNE		19	33
1	eiP	Z	16	12	52	6	eiP	Z	07	29	19
	S	ZNE		14	25		S	ZNE		31	04
1	eiP	Z	21	57	45	6	eiP	Z	10	27	46
2	iP	Z	09	30	08.5		S	ZNE		28	31
	Compression						T	ZNE		31	42
	S	ZNE			55	6	e(S)	ZNE	11	39	32
2	eiP	Z	10	47	57	6	iP	Z	23	08	40.5
	S	ZNE		48	40		Dilatation				
	T	ZNE		50	40		S	ZNE		10	27
2	eiP	Z	19	21	40	7	eiP	Z	09	55	55
	S	ZNE		22	52		S	ZNE		56	31
2	eiP	Z	22	20	47	7	eiP	Z	20	06	23
	S	ZNE		21	25		S	ZNE			57
3	eiP	Z	08	42	40						
	S	ZNE		48	00						
	eL	N		50	20						
	eL	ZE		52	16						
3	e(L)	Z	12	10	22						
3	ei(P)	ZNE	12	38	58						
3	ei(P)	ZNE	13	27	44						
3	iP	Z	13	28	24						
	Dilatation										
	S	ZNE		31	20						
3	eiP	Z	19	26	33						
	S	ZNE		27	07						
3	eiP	Z	19	49	11						
	S	ZNE			46						
4	eiP	Z	00	44	17						
	S	ZNE		45	55						
4	iP	Z	01	37	16						
	Dilatation										
	S	ZNE		42	44						
	(SS)	ZNE		45	00						
	L	ZNE		47	00						

Seismograms interpreted
by I. Anapu.
M. Pasefika.

P.D. Muller
OBSERVER IN CHARGE

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

OCT 20 1971



International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
15 October, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/41

OCT. 8	e e	ZE ZE	01	46 51	52 14	OCT. 11	eiP S	Z ZNE	11	55 56	56 40
8	ei(P) S (T)	Z ZNE ZNE	03 04	53 06	12 20	12	eiP S T	Z ZNE ZNE	00 04	01 15	30 50 15
8	e eL	Z ZNE	14	33 37	48 40	12	eiP S T	Z ZNE ZNE	07 08	51 53 00	58 20 56
8	iP Dilatation S	Z ZNE	16	06 08	35 00	12	L	ZNE	10	24	00
8	ei(P)	Z	16	58	35	12	iP Compression S	ZNE ZNE	17	53	08.5 32
8	eiP S	Z ZNE	18	29	19 53	<u>Felt at Apia MM III</u>					
9	eiP S	Z ZNE	05	06 07	40 23	12	eiP (S)	ZNE NE	20	49 51	16 35
9	eiP S	Z ZNE	13	19 20	19 50	13	eiP S	Z ZNE	03	32 33	20 00
9	eiP	Z	13	27	12	13	(S) eL	ZN ZN	09	49 58	00 26
9	iP S	Z ZNE	19	23 25	41 40	13	eS eL	ZN ZN	12	08 17	46 40
10	eiP S (T)	Z ZNE ZNE	06	30 31 34	30 20 50	14	e	N	09	10	52
10	eiP S	Z ZNE	18	24 25	24 09	14	e	Z	13	17	44
10	ei(P)	Z	23	04	38	14	e e eL	ZN ZN Z ZN	23	05 11 18 32	20 56 36 32
10	iP Compression S	Z ZNE	23	56	01 20	Seismograms interpreted by I. Anapu. M. Pasefika.					
11	iP Compression S T	Z ZNE ZNE	04	51 52 55	27.5 07 34						
11	eiP S	Z ZNE	06 07	59 01	40 07						
11	eL	ZN	07	13	40	P.D. Müller <u>OBSERVER-IN-CHARGE</u>					

OCT 27 1971

23

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.
22 October, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/42

OCT. 15	eL	Z	11	19	12	OCT. 19	eiP	Z	06	47	54
15	eiP	Z	22	20	59		(S)	ZNE		49	05
	S	ZNE		21	29	19	eiP	Z	08	17	04
16	eiP	Z	05	22	04		(S)	ZNE		20	48
	e	Z		23	40	19	eiP	Z	09	15	52
	eS	ZNE		27	36		S	ZNE		16	11
	iL	N		29	50	19	eiP	Z	12	19	43
	L	ZE		32	00		S	ZNE		21	22
16	eiP	Z	07	55	56	19	iP	Z	13	20	18
	S	ZNE		57	20		Dilatation				
16	eiP	Z	09	48	28		S	ZNE		21	38
	S	ZNE			51	19	iP	Z	13	33	08
16	e(L)	ZNE	14	35	12		S	ZNE		34	38
17	eiP	Z	01	51	43	19	eiP	Z	13	59	10
	S	ZNE		52	58		S	ZNE	14	00	00
17	eiP	Z	14	43	12		T	ZNE		03	13
	S	ZNE		44	24	19	iP	Z	21	09	47
17	e(P)	Z	18	18	05		Compression				
							S	ZNE		10	25
17	eP	Z	20	27	41	20	eiP	Z	07	31	05
	S	ZNE		29	08		S	ZNE		33	32
18	iP	Z	03	48	58	20	ei(P)	Z	08	51	51
	Compression										
	S	ZNE		52	05	20	eL	N	09	12	20
18	ei(P)	Z	03	56	23		eL	ZE		14	36
18	eiP	Z	10	03	43	20	eL	ZNE	19	50	40
	eS	ZNE		07	08	20	eiP	Z	20	28	37
18	e(P)	Z	10	09	56		eS	ZNE		32	40
18	eiP	Z	12	34	47	21	eiP	Z	00	56	20
	S	ZNE		38	40		S	ZNE		58	05
18	iP	Z	12	59	47	21	eiP	Z	06	41	42
	Dilatation						S	ZNE		43	12
	S	ZNE	13	03	08	21	eiP	Z	06	48	38
18	ei(P)	Z	13	08	05		S	ZNE		52	40
18	eiP	Z	18	00	50						
	S	ZNE		01	24						

Seismograms interpreted
by I. Anapu,
M. Pasefika.

"
P.D. Müller
OBSERVER-IN-CHARGE

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

NOV 4 1971

Apia Observatory, International
P.O. Box 52, Seismological
Apia, W. Samoa Centre
29 October, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/43

OCT.	Time	Phase	Direction	20	39	38	OCT.	Time	Phase	Direction	17	49	24
22	iP	Z		20	39	38	25	eL	ZE		17	49	24
	Compression												
	S	ZNE			40	21	26	eiP	Z		03	56	07
								S	ZNE			57	45
22	eiP	Z		22	12	14	26	eiP	Z		06	14	40
	S	ZNE			13	25		S	ZNE			16	10
	(L)	ZNE			14	00							
	T	ZNE			18	25	26	eL	ZE		15	57	08
22	eiP	Z		22	42	14		eL	N		16	01	10
	S	ZNE			43	40	26	e(L)	ZNE		19	29	24
23	eiP	Z		01	50	19	26	eiP	Z		20	44	36
	iS	ZNE			57	52		eS	ZNE			48	36
	e	NE		02	03	32	26	e	ZE		22	45	40
	iL	ZN			06	16	27	eiP	Z		04	46	10
	L	E			08	00		S	ZNE			48	30
23	e	Z		04	11	24	27	e	ZE		09	48	32
	eL	ZN			20	48		eL	ZNE		10	02	24
23	eiP	Z		10	02	46	27	iP	Z		18	03	12
23	eL	ZE		21	05	48		Dilatation					
23	iP	Z		22	42	44		S	ZNE			07	00
	iS	ZNE			50	12	28	e	ZE		01	39	22
	i	NE			55	36	28	eiP	Z		05	42	38
	i	ZE			57	36		S	ZNE			43	28
	iL	Z		23	02	12	28	iP	Z		14	25	14
24	eiP	Z		01	46	41		Compression					
	S	ZNE			54	12		eS	ZNE			29	12
	i	N			56	40		i(L)	ZE			30	38
	i(L)	N			59	40	28	iP	Z		15	20	18.5
	L	ZE		02	02	04		Dilatation					
24	iP	Z		02	30	12.5		i	ZE			22	38
	Dilatation							S	ZNE			25	32
24	iP	Z		02	59	22.5		L	ZNE			29	00
	Dilatation						28	eiP	Z		16	53	46
	S	ZNE		03	00	45		S	ZNE			54	25
24	eiP	Z		12	01	43	28	iP	Z		18	04	45
	S	ZNE			03	55		Compression					
24	P	Z		14	21	39		iS	ZNE			08	38
	S	ZNE			22	00	28	eiP	Z		23	09	26
24	iP	Z		18	00	07		S	ZNE				49
	S	ZNE				28		T	ZNE			11	22
24	e	ZN		23	32	12	29	iP	Z		00	47	33
25	iP	Z		03	51	22		Dilatation					
	Compression							S	ZNE			50	18
	iS	ZNE			55	16							
25	iP	Z		14	19	04							
	Compression												
	S	ZNE				25							

P.D. Muller
OBSERVER-IN-CHARGE

OCT 7 1971

C 23



Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.
1 October, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/39

SEPT.	Time	Phase	Station	Mag	Mag	SEPT.	Time	Phase	Station	Mag	Mag	Mag
24	S	ZNE	01	30	00	26	eP	Z	16	43	53	
	e	ZE		37	44		eS	ZNE		52	12	
	eL	E		39	40		eL	N		59	44	
	eL	ZN		40	48		eL	ZE	17	04	16	
24	e	ZE	04	58	44	26	P	Z	23	41	00	
	e	Z	05	03	52		S	ZNE		42	30	
	eL	ZE		16	20							
	eL	N		18	12	27	e	N	02	34	40	
							eL	ZE		36	22	
24	eiP	ZNE	19	22	20	27	iP	Z	06	18	40	
	S	ZNE		24	13		Dilatation					
25	eiP	ZNE	02	52	52	27	eiP	ZNE	06	29	17	
	S	ZNE		54	25	27	eL	ZN	07	00	40	
25	eL	ZNE	03	30	28	27	eiP	ZNE	10	01	50	
25	eiP	ZNE	04	34	25		S	ZNE		03	58	
	S	ZNE		35	18		T	ZNE		10	30	
25	iP	Z	04	43	52	27	eiP	ZNE	12	14	57	
	Dilatation						S	ZNE		18	10	
	S	ZNE		50	00	27	eiP	Z	15	04	01	
	L	ZNE		53	20		e	NE		11	12	
25	eiP	ZNE	06	35	32		e	Z		13	38	
	S	ZNE		36	08		e	NE		14	32	
25	e(L)	Z	13	51	14	27	eiP	Z	17	48	48	
25	iP	Z	14	46	50		S	ZNE		49	44	
	Dilatation					27	eiP	ZNE	19	13	19	
	S	ZNE		48	23		e	NE		23	12	
25	eL	Z	18	28	48		e	ZN		27	40	
25	e(S)	ZNE	20	56	52		e(L)	E		31	36	
	e	N	21	03	40		eL	ZN		35	28	
	eL	ZE		05	30	27	eiP	ZNE	23	27	44	
25	iP	Z	21	30	15.2		e(S)	ZNE		33	52	
	Dilatation						e	Z		35	32	
	S	ZNE			34		e	ZNE		37	06	
							L	ZE		39	00	
25	eP	Z	22	19	39	28	eiP	Z	04	02	43	
	S	ZNE		20	57		S	ZNE		03	18	
26	eiP	ZNE	01	35	24	28	eiP	Z	19	51	30	
	S	ZNE		37	40		e(S)	ZNE		56	32	
	eL	ZNE		38	28		e(L)	NE		58	36	
	T	ZNE		45	30		eL	Z	20	00	20	
26	eP	Z	05	11	48	28	eL	ZE	22	38	40	
	S	ZNE		13	25		eL	N		39	48	
26	eiP	Z	06	39	01	29	eP	Z	13	58	35	
	S	ZNE		40	31		eS	NE	14	05	24	
26	iP	Z	09	26	09		e	NE		08	40	
	S	ZNE			31		eL	E		14	24	

2.

SEPT.	29	iP	ZNE	14	08	45
		S	ZNE		09	06
	30	eP	Z	08	29	27
		eS	NE		38	44
		e	E		43	14
		eSSS	NE		47	04
		iL	NE		50	36
	30	eP	Z	19	47	11
		eiS	ZNE		48	27
		eT	ZNE		54	13
	30	eiP	ZNE	21	21	58
		eiS	ZNE		24	01
	30	eP	Z	21	44	11
		e	Z			53

Seismograms interpreted
by I. Anapu.
M. Pasefika.

"
P.D. Muller
OBSERVER-IN-CHARGE

NOV 12 1971

Geophysics Division
 DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
 NEW ZEALAND



Apia Observatory,
 P.O. Box 52,
 Apia, W. Samoa.
 5.11.71

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/44

OCT. 29	e(P)	Z	14	17	28	NOV. 2	eL	ZN	22	42	20
	eS	ZN		26	32						
	eL	ZN		37	44	2	e(S)	ZN	23	44	40
29	e(P)	Z	17	10	50	3	P	Z	11	05	02
	eiS	ZNE		12	28		S	ZNE		06	41
29	e	ZE	20	09	36	4	eiP	NE	05	39	52
	e	ZNE		12	00		S	NE		39	20
	eL	ZE		15	06		T	NE		41	00
	L	N			40						
29	ei(P)	Z	20	12	10						
29	eiP	ZE	23	14	16						
	e	Z		18	04						
	e	NE			16						
	L	ZE		19	37						
30	eiP	ZNE	14	26	35						
30	e(P)	Z	16	35	50						
30	eP	Z	21	00	31						
	e	ZN		10	16						
	e	E			24						
	e	ZE		15	00						
	e	Z		20	08						
	eL	ZE		23	36						
30	eP	Z	22	40	15.5						
	e	ZE		45	48						
31	eP	Z	09	49	32						
	e(S)	NE		51	15						
31	iP	Z	11	07	56						
	Dilatation										
	eiS	ZNE		09	08						
31	eiP	Z	12	15	53						
31	e	E	17	55	08						
NOV. 1	eP	Z	10	03	55						
	e	ZNE		07	36						
	e	ZE		08	40						
1	eiP	Z	14	21	33						
	S	ZNE		22	07						

Seismograms interpreted
 by I. Anapu.
 M. Pasefika.

"
 P.D. Muller
 OBSERVER-IN-CHARGE

NOV 29 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
19 November, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

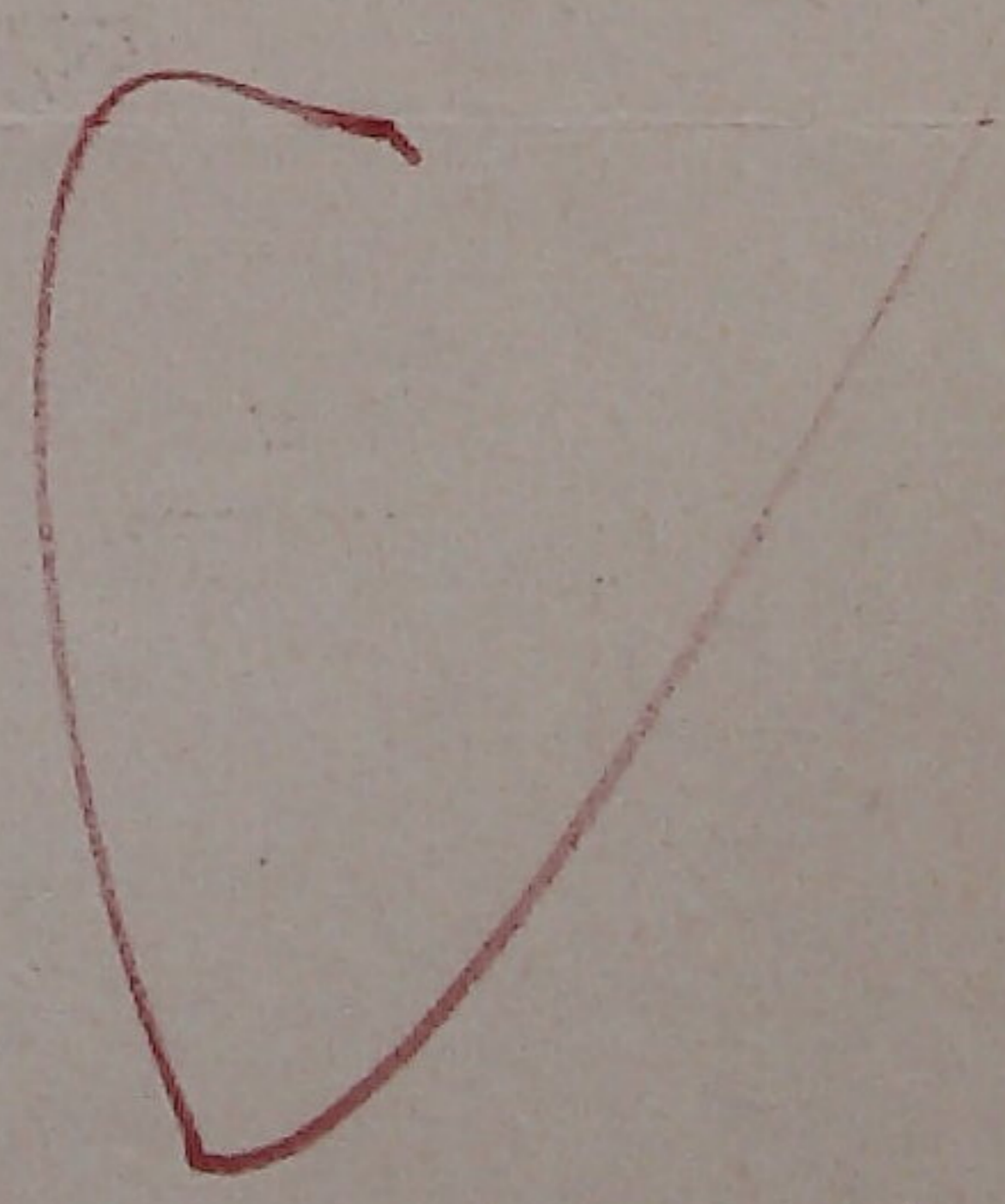
INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

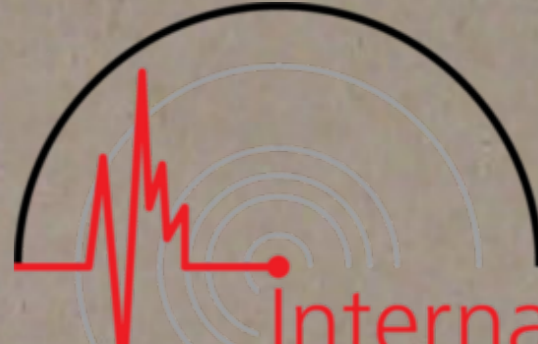
PRELIMINARY SEISMIC BULLETIN 71/45

NOV. 12	iP Dilatation S	Z ZNE	05	02 04	50 00	NOV. 18	eiP eiS	ZNE ZNE	09	26	04 44
12	iP S	Z ZNE	05	45 46	06 33	18	eP eS eT	ZNE ZNE ZNE	13	07 10 21	58 27 00
12	e(P) (S)	ZNE ZNE	18	33 36	26 17	18	eP eS eT	ZNE ZNE ZNE	19	30 32 43	31 56 06
13	iP S	Z ZNE	23	38 39	40.5 00	18	iP Compression S	ZNE ZNE	21	24	41 59
14	eiP S	Z ZNE	04	15	24 46	<p><u>NOTE:</u> No recording at Afiamalu between 041100Z and 120349Z due to main power failure.</p> <p>Seismograms interpreted by I. Anapu. M. Pasefika.</p> <p>" P.D. Muller <u>OBSERVER - IN - CHARGE</u></p>					
14	ei(P) S	Z ZNE	14	39 41	32 28						
15	e e	ZNE ZE	00	40 44	52 50						
15	iP S	Z ZNE	11	09 10	29 21						
15	iP S	Z ZNE	17	22	15 56						
16	eiP S	Z ZNE	08	42 44	31 06						
16	eP S	ZNE ZNE	19	03 08	30 44						
16	iP Dilatation S	Z ZNE	23	58 59	52.5 55						
17	eP e(S)	Z NE	03	05 06	02 23						
17	iP Compression eiS	ZNE ZNE	04	51 52	18.1 06						
17	iP eiS	ZNE ZNE	13	51 52	58 15						
18	eiP S	ZNE ZNE	05	33 34	48 34						
18	eiP (S)	ZNE ZNE	07	26 28	51 38						



DEC 1 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND


International
Seismological
Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
26 November, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/46

NOV. 19	iP	ZNE	17	04	37	NOV. 23	iP	ZNE	00	19	29.2
	Compression						Compression				
	S	ZNE			57		S	ZNE			49
	Felt Apia MMII										
20	iP	ZNE	05	05	12.5	24	eP	ZNE	18	06	17
	Compression						S	ZNE		07	04
	(S)	ZNE			31		T	ZNE		10	15
20	iP	ZNE	07	30	37.5	24	iP	ZNE	19	46	36.5
	Dilatation						Dilatation				
	S	ZNE		32	24		iPP	ZN		49	34
	Movement follows for several minutes						iS	ZNE		55	52
20	eiP	Z	19	39	42		iSS	ZNE	20	00	05
	e(S)	NE		41	14		iSSS	ZNE		03	45
20	e	N	21	45	36		iLq	NE		06	02
	e	ZN		54	40		i	Z		07	05
	eL	ZN		58	00		iLr	ZN		11	49
20	P	Z	23	04	02		M	ZN		17	
	e	ZN		08	08		M	ZN		23	
21	iP	ZNE	06	01	51.4		e(T)	ZNE	21	03	14
	Compression					24	eP	Z	20	14	34
	iS	ZNE		05	48	25	eP	Z	12	28	36.2
21	iP	ZNE	06	24	39		e(S)	Z		30	10
	Dilatation					25	eL	ZE	12	39	00
21	eiP	Z	06	35	50						
21	eP	ZNE	07	30	13.5						
21	eP	Z	17	05	36.4						
21	eP	Z	18	53	46						
	eS	NE		56	16						
22	e	ZNE	01	13	32						
	eL	ZN		16	16						
22	eP	Z	03	39	55.2						
22	eP	Z	07	41	21						
	eiS	ZNE			47						
	T	ZNE			43						
22	e(P)	Z	08	30	28						
22	iP	ZNE	08	36	14.4						
	S	ZNE			34						
22	iP	Z	20	58	57.2						
	Compression										
	eS	NE	21	00	30						
23	iP	ZNE	09	13	22						
	Compression										
	eiS	ZNE		15	07						

Seismograms interpreted
by I. Anapu.

"
P.D. Muller
OBSERVER-IN-CHARGE

DEC 16 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



International Seismological Centre
Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
10 December 1971

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/48

Dec. 3	eiP S	Z ZNE	14	57	26	Dec. 7	iP Dilatation S T	Z ZNE ZNE	17	36	24	56	00
4	iP Compression iS iL L	Z ZNE N ZE	02	32	29	7	eiP S T	Z ZNE ZNE	18	56	31	57	07
4	eL eL	ZE N	16	27	16	8	iP Dilatation S	ZNE ZNE	02	08	09.2	09	25
4	eL	ZN	18	23	40	8	eiP S T	ZNE ZNE ZNE	06	12	13	14	14
4	eL	ZE	19	11	40	8	eL eL	E ZN	09	08	28	13	44
5	eL	ZNE	00	11	28	8	iP S	Z ZNE	10	06	29.5	50	
5	S eL eL	ZNE NE Z	06	11	16	8	e e e eL	ZNE ZN Z ZNE	16	29	24	36	28
5	iP Dilatation (S)	Z ZNE	13	26	27	8	e e e eL	ZNE ZN Z ZNE	16	29	24	36	28
6	eP S (L) iL	Z ZNE N ZE	02	11	16	9	eiP e	Z ZE	02	48	40	54	20
6	e e	ZE Z	06	03	50	9	eP iS iS	Z NE Z	15	04	38	07	42
7	e e eL	ZN ZN ZN	03 04	55 01	08 40	9	eL eL	N ZE	19	11	08	12	40
7	iP Dilatation eS e eL	Z ZNE ZNE ZNE	06	33	30								
7	eiP S	Z ZNE	12	51	25								

Seismograms interpreted
by I. Anapu
M. Pasefika

P.D. Muller
OBSERVER-IN-CHARGE

DEC 22 1971

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
17 December, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/49

DEC. 10	eL	NE	05	12	48	DEC. 15	iP	ZNE	19	09	50.1
							Dilatation				
10	ei(P)	Z	07	32	45						
10	eP	Z	08	35	53	15	iP	Z	21	23	49.5
	eS	NE		38	48		Dilatation				
	eL	Z		39	23		ei	ZNE		24	24
11	iP	ZNE	03	40	11	15	iP	Z	22	12	03
	Compression						Compression				
	iS	ZNE					iS	ZNE			47
11	eP	ZNE	07	31	56	15	eiP	ZNE	23	28	55
	ePP	ZE		33	20		S	ZNE		29	40
	e(PcS)	ZE		37	20						
	iS	N			52	16	eiP	Z	15	31	45
	iSS	ZN		39	44		S	ZNE		32	05
	i(SSS)	E		40	04						
	L	ZE		41	28	16	eiP	Z	18	56	14
11	eiP	ZNE	22	15	38		S	ZNE		57	52
11	eP	ZNE	22	58	01						
	eiS	ZNE			43						
12	iP	ZNE	11	50	24.3						
	Dilatation										
	S	ZNE			50						
13	eiP	Z	11	44	22						
	S	ZNE			40						
14	eiP	Z	07	42	41						
14	L	ZE	10	34	28						
14	eiP	Z	16	04	51						
	S	ZNE		06	30						
	T	ZNE		15	20						
15	iP	Z	01	30	57						
	eiS	ZNE		31	52						
15	iP	ZNE	07	31	31						
	Dilatation										
	eiS	ZNE		34	44						
15	iP	ZNE	08	41	24						
	Dilatation										
15	eiP	ZNE	10	23	46.3						
	S	ZNE		24	12						

Seismograms interpreted
by I. Anapu.
M. Pasefika.

P.D. Muller
OBSERVER-IN-CHARGE

JAN 04 1972

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND



Apia Observatory,
P.O. Box 52,
Apia, Western Samoa.
24 December, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/50

DEC.	17	iP Compression S	ZNE ZNE	09	10	39.5
					11	12
	17	e eL	NE Z	19	35 38	24 16
	18	No readings				
	19	eP eiS eT	Z ZNE ZNE	00	25 27 37	01 14 24
	19	ei(P)	Z	06	03	45
	20	iP Compression S	Z ZNE	12	11	27.8 51
	21	No readings				
	22	eiP S	Z ZNE	10	41 42	45 26
	23	eiP S	Z ZNE	23	04 06	21 30

Seismograms interpreted
by I. Anapu,
M. Pasefika

P.D. Muller
OBSERVER-IN-CHARGE

Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

31 Dec 1971

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
31 December, 1971.



STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/51

DEC. 24	e _A (P) S	Z ZNE	00	50 51	36 48	DEC. 28	iP Compression S	Z ZNE	13	09	39
24	eiP S T	Z ZNE ZNE	21	14 15 18	08 13 08	28	e	Z	16	18	20
24	eL eL	N ZE	22	37 38	14 32	29	No readings				
25	eiP S	Z ZNE	03	08 09	27 03	30	eiP S T	Z ZNE ZNE	05	08 09 13	12 09 45
25	P S	Z ZNE	12	35	00 20	30	eiP S T	Z ZNE ZNE	06	39 40 44	06 02 15
25	P	ZNE	12	36	47	30	eiP eS L	Z ZNE ZNE	15	46 52 55	45 16 08
26	eiP e eL eL	Z Z N ZE	15 16	57 03	31 20	30	eL	ZN	19	38	20
26	iP Dilatation S	Z ZNE	21	15 16	53.8 24	31	eiP S	Z ZNE	00	48	12 33
27	eiP S	Z ZNE	11	02 03	32 40	Seismograms interpreted by I. Anapu. M. Pasefika.					
27	e	ZNE	20	06	44						
27	eiP S	Z ZNE	21	51 52	24 07						
28	iP Dilatation S T	Z ZNE ZNE	06	06 07 10	48.5 40 00	P.D. Muller OBSERVER-IN-CHARGE					
28	eiP S	Z ZNE	07	49 50	21 13						
28	eiP S	Z NE	08	06 07	50 40						

DEC 9 1971



Geophysics Division
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NEW ZEALAND

Apia Observatory,
P.O. Box 52,
Apia, W. Samoa.
3 December, 1971.

STATION: AFIAMALU

LATITUDE: 13° 54' 33.6"S LONGITUDE: 171° 46' 38.1"W ELEVATION: 705.6 metres

INSTRUMENT: WORLD WIDE STANDARD SEISMOGRAPH SYSTEM No. 72

NOMINAL SHORT PERIOD MAGNIFICATION: 12500

NOMINAL LONG PERIOD MAGNIFICATION: 750

PRELIMINARY SEISMIC BULLETIN 71/47

NOV.	26	iP S	Z ZNE	03 18	38.5 58	DEC. 1	eiP eiS	ZNE ZNE	11 14	14 15	54 15
	26	eiP eS	Z ZNE	14 45	10 16	1	eP eiS	Z ZNE	11 33	33 10	01 10
	26	eiP S	Z ZNE	22 44	35 27	1	iP eiS	ZNE ZNE	19 40	40 38.5	38.5 59
	27	e eL	ZNE ZNE	14 05	44 36	2	eiP	ZNE	03	41	45
	27	eiP S	Z ZNE	14 35	22 01	2	iP S	ZNE ZNE	09 45	45 09.7	16
	27	iP S T	Z ZNE ZNE	18 00 01	43 15 26	2	eiP iS eSS SSS iL	ZNE ZNE ZE ZNE ZNE	17 29 38 42 45 48	29 10 12 20 15 04	10 12 20 15 04
	27	iP Compression S	Z ZNE	18 26	43 13						
	27	eL	E	23	52						
	28	eS eL	ZNE ZNE	11 02	32 40						
	28	eS e eL eL	ZNE ZE NE Z	15 15 19 21 23	14 52 20 24						
	29	eiP S T	Z ZNE ZNE	03 39 40 47	21 40 17						
	29	eP e eL	Z Z ZN	20 27 39 56	14 20 20						
	29	eiP eS T	Z ZN ZNE	23 47 48 50	23 06 40						
	30	eL	ZN	07	16						
	30	ei(P) S	Z ZNE	08 51 53	52 37						

Seismograms interpreted
by I. Anapu.

P.D. Müller
OBSERVER-IN-CHARGE

SEP 30 1971

1-12



NEW ZEALAND
 Department of Scientific and Industrial Research
 Geophysics Division
 APIA OBSERVATORY

FINAL SEISMOLOGICAL BULLETIN
 STANDARD SEISMIC STATION (AFI)
AFIAMALU, WESTERN SAMOA

Latitude; 13° 54' 33.6"S Longitude: 171° 46' 38.1"W

Height above mean sea level: 705.6 metres, 2315 ft.

Geocentric direction cosines: a. - 0.961 070

b. - 0.138 883

c. - 0.238 862

Lithological Foundation: Basaltic Lava Flows

Instruments: World-wide standard seismograph system

Benioff short period seismometers

To = 1.0 sec. Tg = 0.75 sec.

Sprengnether long period seismometers

To = 15 sec. Tg = 100 sec.

Nominal Magnifications: S.P. 12500

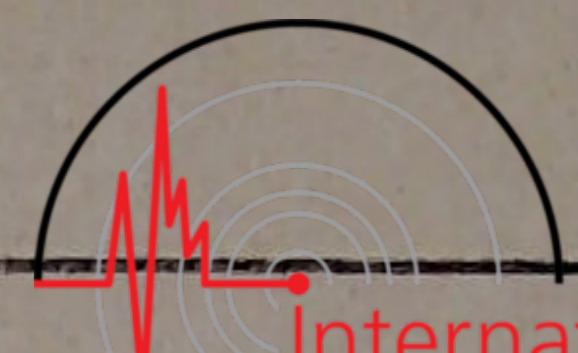
L.P. 750

January 1971

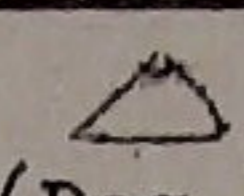
No	Date	Phase	Time (G.M.T.)						△ (Deg.)	Remarks	
				Az	T _z	An	Tn	Ae			Te
1	1	eiP	ZNE	08	06	35				47.5	USCGS: 4.0S, 141.2E. New Guinea Felt (V), at Lumi h about 17 km. H = 07 57 58.8 Mag. 6(PAS), 5.5MB 5.8MS (CGS)
		eS	ZNE		13	27					
		eSS	ZN		16	36					
		eSSS	NE		18	28					
		eL	Z		20	58					
2	1	eP	Z	08	33	39			8.2	USCGS: 19.2S, 178.2W. Fiji Islands region h about 688 km. H = 08 31 39.1 Mag. 4.6 (CGS)	
		S	ZNE		35	14					
3	2	e(P)	ZN	05	02	22					
		(S)	ZNE		03	41					
		e(T)	ZNE		10	29					
4	2	e(P)	Z	13	05	55			13.7	USCGS: 26.6S, 177.1W. South of Fiji Islands h about 179 km. H = 13 03 02.2	
		(S)	ZNE		08	02					
5	3	(P)	ZNE	05	43	49					
6	3	iP	Z	06	29	18.7			25.1	u USCGS: 11.0S, 162.6E. Solomon Islands h about 38 km. H = 06 23 55.0 Mag. 4.8 (CGS)	
		eS	ZN		34	00					
		eL	ZE		35	04					



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks	
7	3	eP	Z	10	22	40							66	USCGS: 33.6N, 138.7E. South of Honshu, Japan. Felt (II JMA) in Southern Honshu. h about 24 km. H = 10 11 39.8 Mag. 5.2 (CGS)	
8	3	e	Z	17	53	16							111	USCGS: 55.5S, 2.6W. South Atlantic Ridge h normal H = 17 35 40.2 Mag. 6.9(BRK), 6.4MB 7.1MS (CGS)	
		eS	E	18	02	32									
		iS	ZN		04	15									
		e	N		09	16									
		eSS	ZE		10	07									
		eSSS	ZNE		14	20									
		e	ZE		17	16									
		eL	ZNE		21	00									
9	4	eS	ZNE	04	17	12							58	USCGS: 29.6S, 112.0W. Easter Island region h normal H = 03 59 12.6 Mag. 5.2MB 5.5MS (CGS)	
		eL	ZNE		25	00									
10	4	eP	ZNE	07	05	14							7.7	USCGS: 18.0S, 178.6W. Fiji Islands region h about 606 km. H = 07 03 21.5 Mag. 4.3 (CGS)	
		S	ZNE		06	43									
11	4	eiP	Z	11	11	49							12.5	USCGS: 23.5S, 179.9E. South of Fiji Islands h about 580 km. H = 11 09 08.6 Mag. 4.9 (CGS)	
		eiS	ZNE		13	50									
12	4	eS	Z	14	12	36							45.8	USCGS: 3.3S, 143.0E. Near north coast of New Guinea. Felt (III) at Lumi h about 18 km. H = 13 57 30.6 Mag. 5.2MB 5.4MS (CGS)	
		eSSS	N		16	04									
		eL	ZE		17	05									
13	4	eiP	ZNE	15	44	41									
		iS	NE		45	23									
14	4	eiP	ZNE	16	03	20									
		(S)	ZNE			55									
		(T)	ZNE		06	02									
15	4	eP	Z	19	13	34									
		S	ZNE		14	09									
		T	ZNE		16	40									
16	4	eS	NE	21	29	24							68	USCGS: 34.5N, 137.1E. Near south coast of Honshu, Japan. Felt (IV JMA) on Honshu. h about 40 km. H = 21 08 53.4 Mag. 5.6MB 5.7MS (CGS)	
		eSSS	ZNE		36	44									
		eL	ZN		40	16									
17	5	e	N	05	37	20							25.8	USCGS: 10.8S, 162.0E. Solomon Islands h about 35 km. H = 05 26 16.2 Mag. 5.0 (CGS)	
		eL	ZE		38	48									



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
30	10	iP i	Z Z	07 53	52 24.2	34						49.1	u USCGS: 3.0S, 139.7E. West New Guinea. h normal H = 07 43 47.1 Mag. 5.9 (CGS)
31	10	iP	ZNE	08	02	40	2.0	1.0				49.1	u USCGS: 3.0S, 139.7E. West New Guinea. h normal H = 07 53 52.6 Mag. 5.6 (CGS)
32	10	eP	ZNE	08	53	20						49.0	USCGS: 3.2S, 139.7E. West New Guinea h about 21 km. H = 08 44 32.6 Mag. 5.5 (CGS)
33	10	eiP	ZNE	08	55	25						48.8	USCGS: 3.2S, 140.0E. West New Guinea. h normal H = 08 46 42.9 Mag. 5.2 (CGS)
34	10	eP	ZNE	10	12	50						48.7	USCGS: 3.3S, 140.1E. West New Guinea. h normal H = 10 04 06.6 Mag. 5.4 (CGS)
35	10	eP	ZNE	10	53	53						49.2	USCGS: 3.0S, 139.6E. West New Guinea. h about 36 km. H = 10 45 06.8 Mag. 6.1 (CGS)
36	10	iP S	ZNE ZNE	12	53 54	29 11							d
37	10	eP eS e eL	Z ZNE N ZE	14	38 45 51 53	43 56 52 24						49.0	USCGS: 3.2S, 139.8E. West New Guinea. h about 28 km. H = 14 29 56.3 Mag. 5.7 (BRK), 5.8MB 5.9MS (CGS)
38	10	iP	Z	14	46	07						49.2	u USCGS: 2.9S, 139.6E. Near north coast of west New Guinea. h normal H = 14 37 21.3 Mag. 5.2 (CGS)
39	10	iP S e eL	Z NE N ZE	16	16 23 29 31	34.4 38 08 32						49.0	u USCGS: 3.1S, 139.8E. West New Guinea. h normal H = 16 07 45.9 Mag. 5.8 (BRK), 5.7MB 5.7MS (CGS)
40	10	eP eS i L	ZNE NE N ZE	16 17	47 54 57 02	19 28 20 36							USCGS: 3.4S, 140.0E. West New Guinea. h about 27 km. H = 16 38 36.0 Mag. 5.8 (BRK), 5.5MB 6.0MS (CGS)

No	Date	Phase		Time (G.M.T.)									 (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
41	10	eP	Z	17	20	30							48.7	USCGS: 3.4S, 140.1E. West New Guinea. h about 27 km. H = 17 11 47.6 Mag. 5.2 (CGS)
42	10	eP	Z	18	19	57							49.0	USCGS: 3.1S, 139.8E. West New Guinea. h normal H = 18 11 01.9 Mag. 5.2 (CGS)
43	10	eiP	Z	18	28	27							49.6	USCGS: 2.7S, 139.3E. Near north coast of West New Guinea. h normal H = 18 19 38.1 Mag. 5.4 (CGS)
44	10	eiP	Z	19	14	11							49.1	USCGS: 3.1S, 139.6E. West New Guinea. h normal H = 19 05 23.3 Mag. 5.0 (CGS)
45	10	eiP	Z	19	22	23							49.0	USCGS: 3.2S, 139.8E. West New Guinea. h about 33 km. H = 19 13 36.8 Mag. 5.5(BRK), 5.8MB 5.5MS (CGS)
46	10	eP	Z	19	43	05							49.1	USCGS: 3.1S, 139.7E. West New Guinea. h about 39 km. H = 19 34 22.3 Mag. 5.7 (CGS)
47	10	eP	ZNE	22	23	22							48.9	USCGS: 3.2S, 139.9E. West New Guinea. h about 30 km. H = 22 14 37.4 Mag. 5.6(BRK), 6.1MB 5.8MS (CGS)
48	10	eP	Z	23	33	31							48.9	USCGS: 3.3S, 139.8E. West New Guinea h normal H = 23 24 46.7 Mag. 5.6 (CGS)
49	11	eiP	Z	07	56	03							49.0	USCGS: 3.2S, 139.8E. West New Guinea. h about 22 km. H = 07 47 16.6 Mag. 5.6 (CGS)
50	11	e(L)	ZNE	11	24	32							49.1	USCGS: 3.1S, 139.7E. West New Guinea. h normal H = 11 08 17.4 Mag. 5.1 (CGS)
51	11	eP eiS	Z N	19	34 36	28 57							14.7	USCGS: 25.1S, 178.3E. South of Fiji Islands h about 606 km. H = 19 31 32.7 Mag. 4.5 (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						Δ (Deg.)	Remarks
52	11	iP S	ZNE ZNE	21 05 07	25.2 03							9.4	u USCGS: 20.5S, 178.5W. Fiji Islands region h about 584 km. H = 21 03 23.2 Mag. 4.7 (CGS)	
53	11	eiP S	ZNE ZNE	21 58	08 47								d	
54	12	iP S	Z ZNE	06 56 57	16.5 04								d	
55	12	iP S	Z ZNE	10 15 16	22.5 52								d	
56	12	eP	Z	15 05	54							48.8	USCGS: 3.2S, 140.0E. West New Guinea. h normal H = 14 57 11.6 Mag. 5.8MB 5.6MS (CGS)	
57	12	eP	Z	15 54	23							49.0	USCGS: 3.2S, 139.8E. West New Guinea. h normal H = 15 45 34.4 Mag. 5.3 (CGS)	
58	13	eiP S	ZNE ZNE	02 22 23	44 16									
59	13	eiP S T	ZNE ZNE ZNE	04 55 57	09 34 28									
60	13	e(L)	ZN	05 30	04									
61	13	iP S	ZNE ZNE	06 14 15	18 32								u	
62	13	iP e(S) e eL	Z ZN N Z	10 31 39 47 50	35.4 00 48 12							49.1	USCGS: 3.1S, 139.6E. West New Guinea. h normal H = 10 22 46.9 Mag. 5.5 (CGS)	
63	13	eiP (S)	ZNE ZNE	13 14 17	06 22							18.9	USCGS: 31.1S, 179.9W. Kermadec Islands region h about 364 km. H = 13 10 12.2 Mag. 4.2 (CGS)	
64	13	eP S eT	Z ZNE ZNE	15 24 26 34	22 02 05									
65	13	eiP S	ZNE ZNE	23 29 30	29 14									
66	14	iP	Z	09 32	23							64	u USCGS: 2.1N, 126.6E. Molucca Passage h normal H = 09 21 56.1 Mag. 5.4 (CGS)	
67	14	eP eS eSS eL	Z N N Z	10 32 39 43 45	32.5 56 16 12							49.5	USCGS: 2.9S, 139.4E. Near north coast of West New Guinea. h normal H = 10 23 45.5 Mag. 5.2MB 5.4MS (CGS)	



No	Date	Phase		Time (G.M.T.)								△ (Deg.)	Remarks
							Az	Tz	An	Tn	Aø		
85	20	eSS	Z	05	16	16						95	USCGS: 8.8N, 79.2W. Panama Minor damage (VII) at Balboa. h about 33 km. H = 04 45 00.1 Mag. 5.1(BRK), 5.6MB 5.6MS (CGS)
		eSSS	Z		19	52							
		eL	Z		28	48							
86	20	iP	ZNE	22	58	08.1							u
		S	ZNE			40							
87	21	iP	Z	06	25	17						40.6	u USCGS: 6.8S, 147.5E. East New Guinea region h about 55 km. H = 06 17 30.8 Mag. 5.6 (CGS)
88	21	eP	Z	12	25	30						9.0	USCGS: 21.5S, 176.7W. Fiji Islands region h about 193 km. H = 12 23 32.0 Mag. 5.1 (CGS)
		S	ZNE		26	59							
89	21	iP	Z	17	29	52.1						66	u USCGS: 7.8S, 122.7E. Flores Sea. h about 196 km. H = 17 19 35.3 Mag. 5.7 (CGS)
90	22	eiP	ZNE	00	34	17							
		S	ZNE			36							
91	22	eiP	Z	02	38	07						7.5	USCGS: 18.0S, 178.4W. Fiji Islands region h about 597 km. H = 02 36 10.9 Mag. 4.7 (CGS)
		S	ZNE		39	40							
92	22	eiP	Z	03	59	16						10.4	USCGS: 21.4S, 179.1W. Fiji Islands region h about 570 km. H = 03 56 59.4 Mag. 4.4 (CGS)
		S	ZNE	04	01	12							
93	23	iP	Z	05	13	57							u
		S	ZNE		14	18							
94	24	eiP	Z	18	43	35	2.5	0.6				9.3	USCGS: 20.5S, 178.4W. Fiji Islands region h about 557 km. H = 18 41 28.0 Mag. 4.9 (CGS)
		S	ZNE		45	14							
95	25	iP	Z	00	25	27	1.0	1.0				36.3	u USCGS: 9.6S, 151.4E. Deutrecasteaux Islands region Felt (V) at Kurada and Salamo h about 38 km. H = 00 18 26.1 Mag. 5.9(PAS), 5.8MB 6.3MS (CGS)
		S	ZNE		31	16							
		eSS	NE		33	52							
		eL	Z		34	16							



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
96	25	eP	Z	16	18	59							65	USCGS: 51.5N, 177.7W. Andreanof Islands, Aleutian Islands. Felt on Adak h about 38 km. H = 16 08 15.1 Mag. 6.3(PAS), 5.9(BRK), 5.9MB 6.3MS (CGS)
		S	ZNE		27	36								
		eSS	ZNE		31	36								
		eSSS	ZE		35	06								
		eL	ZNE		37	20								
97	26	eP	Z	08	43	08								
		S	ZNE		44	11								
98	26	eS	ZN	19	51	36							65	USCGS: 51.7N, 174.9W. Andreanof Islands, Aleutian Islands Felt (III) on Adak h about 36 km. H = 19 32 04.9 Mag. 5.4MB 5.5MS (CGS)
		eL	ZN	20	01	40								
99	27	eP	Z	02	35	21							10.5	USCGS: 21.5S, 179.4W. Fiji Islands region h about 609 km. H = 02 33 00.0 Mag. 4.6 (CGS)
		S	ZNE		37	12								
100	27	eP	Z	12	41	22							13.7	USCGS: 24.5S, 179.3E. South of Fiji Islands h about 526 km. H = 12 38 31.9 Mag. 4.8 (CGS)
101	27	eiP	ZNE	23	52	50							20.4	USCGS: 15.0S, 167.3E. New Hebrides Islands Felt at Luganville (IV) and Lamap (III) h about 133 km. H = 23 48 22.2 Mag. 5.2 (CGS)
		e	Z		53	26								
		S	ZNE		56	32								
102	28	eP	ZNE	05	33	12.2							7.6	USCGS: 17.6S, 178.7W. Fiji Islands region h about 584 km. H = 05 31 20.0 Mag. 5.0 (CGS)
103	28	eiP	ZNE	06	30	55							7.6	USCGS: 17.9S, 178.5W. Fiji Islands region h about 616 km. H = 06 29 01.0 Mag. 5.0 (CGS)
		S	ZNE		32	25								
104	28	iP	Z	20	08	49								d
		S	ZNE		09	42								
105	28	eiP	ZNE	21	38	57								
		S	ZNE		39	35								
106	29	iP	ZNE	03	16	28								u
		S	ZNE			44								Samoa Islands region
107	29	eP	Z	03	25	05							49.0	USCGS: 3.1S, 139.7E. West New Guinea. Felt (IV) at Pagei. h normal H = 03 16 04.7 Mag. 5.4 (CGS)

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks		
108	29	iP ZNE	22	08	40							72	u USCGS: 51.7N, 150.9E. Sea of Okhotsk Felt (I JMA) at Nemuro and Kushiro, Japan. h about 544 km. H = 21 58 05.4 Mag. 6.6 (PAS), 6.1 (BRK), 6.7 (UPP), 6.1 (CGS)		
		ipP Z												10	24
		iPP ZNE												11	28
		iS ZNE												17	24
		isS E												20	28
		i(sSP)ZN												21	04
		i(SSS)ZNE												28	00
109	29	eP Z	22	35	19										
		e(P) Z												36	09
110	29	eP Z	23	39	52							10.8	USCGS: 23.9S, 176.0W. South of Fiji Islands h about 22 km. H = 23 37 24.5 Mag. 5.1 (CGS)		
		S ZNE												41	41
		eT ZNE												50	20
111	30	eiP Z	02	21	21							11.5	USCGS: 23.8S, 177.8W. South of Fiji Islands h about 262 km. H = 02 18 53.4 Mag. 4.3 (CGS)		
		S ZNE												23	15
112	30	eP ZNE	13	10	11							18.9	USCGS: 19.1S, 169.3E. New Hebrides Islands h about 264 km. H = 13 06 12.2 Mag. 5.2 (CGS)		
113	30	eP Z	18	31	56							11.0	USCGS: 24.1S, 176.0W. South of Fiji Islands h about 48 km. H = 18 29 31.9 Mag. 5.0 (CGS)		
		S ZNE												33	44
		L ZNE												34	40
		eT ZNE												41	40
114	31	iP Z	16	57	11								d		
		(S) ZNE												59	25

"
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FINAL SEISMOLOGICAL BULLETIN
 STANDARD SEISMIC STATION (AFI)
AFIAMALU, WESTERN SAMOA

February 1971

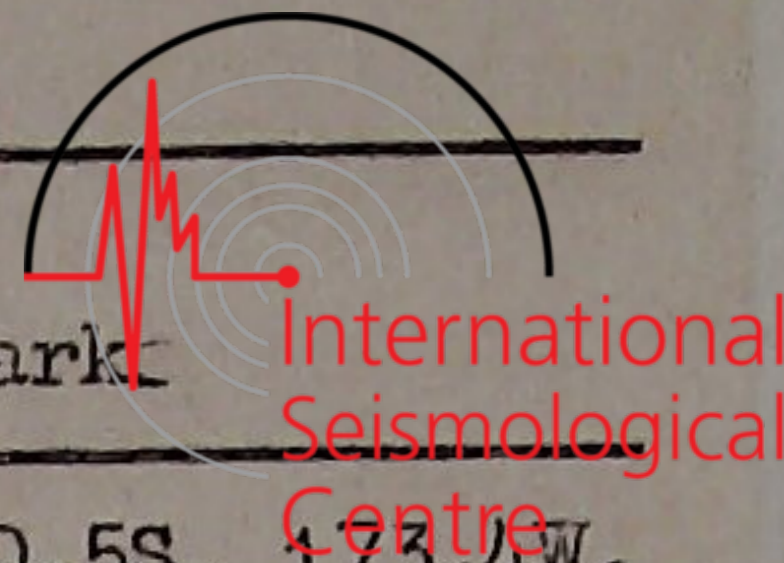
No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
1	1	eiP ZNE S ZNE	04	36	03								Samoa Islands region
2	1	eP Z eS ZNE cSSS E eL ZN	05	30 38 46 48	32 48 00 36							65	USCGS: 51.7N, 172.9W. Andreanof Islands, Aleutian Islands h about 40 km. H = 05 19 23.4 Mag. 6(PAS), 5.5MB 5.8MS (CGS)
3	1	eiP ZNE S ZNE eT ZNE	06	17 19 29	39 45 49							12.6	USCGS: 25.5S, 176.8W. South of Fiji Islands h about 44 km. H = 06 14 50.2 Mag. 5.4MB 5.5MS(CGS)
4	1	iP Z	15	02	54							33.9	d USCGS: 6.2S, 154.6E. Solomon Islands h about 103 km. H = 14 56 23.1 Mag. 5.4 (CGS)
5	1	eiP Z e(S) ZNE	19	03 05	51 31								
6	2	iP Z S ZNE	12	28 29	50.7 10								d Samoa Islands region
7	2	eP Z S ZNE eT ZNE	13	10 11 17	28 48 48								
8	2	iP ZNE S ZNE	14	57 58	49 03								u Samoa Islands region
9	2	eP ZNE S ZNE T ZNE	15	20 21 27	10 31 10							8.2	USCGS: 21.1S, 175.7W. Tonga Islands h about 87 km. H = 15 18 21.5 Mag. 5.4 (CGS)
10	3	iP ZNE S ZNE	03	22 23	54 11								u Samoa Islands region
11	3	iP Z (S) ZNE	06	09 10	21 51							7.8	d USCGS: 17.9S, 178.8W. Fiji Islands region h about 598 km. H = 06 07 34.0 Mag. 5.1 (CGS)
12	3	eL ZNE	12	01	36							42.0	USCGS: 3.3S, 147.0E. Bismarck Sea h about 41 km. H = 11 43 59.5 Mag. 4.8 (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
13	3	eP	Z	19	57	12						52	USCGS: 18.0N, 146.9E. Mariana Islands h about 40 km. H = 19 48 08.7 Mag. 5.3MB 5.1MS (CGS)
		eS	ZNE	20	04	32							
		eSS	E		07	14							
		eL	ZN		11	12							
14	4	eP	Z	06	15	14							
		S	ZNE		16	08							
15	4	eP	Z	13	43	19						13.3	USCGS: 26.1S, 177.3W. South of Fiji Islands h about 93 km. H = 13 40 24.9 Mag. 4.3 (CGS)
		S	ZNE		45	34							
		T	ZNE		55	45							
16	4	eiP	Z	15	46	27.9						90	USCGS: 0.6N, 98.8E. Northern Sumatra Damage in Northern Sumatra. Felt at Singapore h Normal H = 15 33 28.6 Mag. 6.7(PAS), 6 ³ / ₄ (BRK), 6.3MB 7.1MS (CGS)
		iPP	ZE		50	12							
		iS	ZE		56	56							
		iS	N		57	20							
		iSS	ZNE	16	03	03							
		iL	N		10	56							
		iL	ZE		12	36							
		iL	ZE		16	20							
17	5	eP	ZNE	02	08	18							
		ei(S)	ZNE		10	14							
18	5	eS	ZNE	07	54	48						74	USCGS: 51.8N, 130.8W. Queen Charlotte Islands region h Normal H = 07 33 29.1 Mag. 5.1MB 5.7MS (CGS)
		e	NE	08	02	40							
		eL	ZN		07	20							
19	5	eiP	ZNE	12	32	27							
		S	ZNE			45							
20	5	eP	Z	13	35	42							
		S	ZNE		36	10							
		T	ZNE		38	03							
21	5	eS	ZNE	21	18	04						92	USCGS: 28.2S, 70.6W. Central Chile Felt (VI) in Copiapo area h about 55 km. H = 20 52 32.8 Mag. 5.8 (CGS)
		eL	ZNE		35	12							
22	6	eS	ZNE	01	48	24						57	USCGS: 49.6S, 116.0W. Easter Island, 5 Cordillera. h Normal. H = 01 30 34.5 Mag. 4.8MB 5.6MS (CGS)
		eL	NE		54	12							
		eL	Z		55	53							
23	6	iP	ZNE	01	58	09							
		S unreadable due to rapid motion											
24	6	eS	NE	04	09	00						63	USCGS: 35.3S, 106.1W. Easter Island, Cordillera h Normal H = 03 50 04.3 Mag. 5.1MB 5.2MS (CGS)
		eL	NE		16	12							
		eL	Z		18	28							
25	6	eP	Z	08	28	14.4						63	USCGS: 2.2N, 126.9E. Molucca Passage h Normal H = 08 17 48.6 Mag. 5.6MB 5.6MS (CGS)
		eS	ZNE		37	26							
		e(SSS)	N		44	16							
		eL	ZE		48	40							

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te				△ (Deg.)	Remarks
26	6	eL ZN	11	13	48					68	USCGS: 47.0N, 154.1E. Kuril Islands h about 60 km. H = 10 43 05.5 Mag. 5.6 (CGS)
27	6	eP Z eS NE	16	56	20						
28	6	eP Z S ZNE eL ZN T ZNE	18	10	07					14.2	USCGS: 27.1S, 177.0W. Kermadec Islands region h about 129 km. H = 18 07 10.0 Mag. 5.0 (CGS)
29	6	eP Z eS ZNE	20	48	51						
30	7	iP Z S ZNE	01	06	47.5						u
31	7	eP Z iS NE iSS ZE iSSS E iL ZN	02	40	11					65	USCGS: 51.4N, 176.7W. Andreanof Islands, Aleutian Islands Minor damage (V) on Adak h about 50 km. H = 02 29 28.2 Mag. 6.5(PAS), 6.7(BRK), 6.0(CGS)
32	7	e(P) Z	02	52	49					65	USCGS: 51.2N, 177.1W. Andreanof Islands, Aleutian Islands Minor damage (V) on Adak Felt (III) on Adak h about 49 km. H = 02 42 04.5 Mag. 5.8 (CGS)
33	7	e(P) Z	03	08	55						
34	7	eP Z (S) ZNE	03	50	11						
35	7	eP ZNE S ZNE T ZNE	16	53	12					14.1	USCGS: 27.5S, 175.2W. Kermadec Islands region h Normal H = 16 50 01.4 Mag. 5.2MB 5.2MS (CGS)
36	8	eP Z S ZNE	10	30	22						
37	8	iP ZNE S ZNE	20	18	55.2						une Samoa Islands region
38	8	iP Z iS N iS ZE i NE iL ZN	21	17	03					86	d USCGS: 63.5S, 61.2W. South Shetland Islands Felt on Argentine Island h Normal H = 21 04 21.8 Mag. 7(PAS), 7.1(BRK), 6.3MB 7.0MS (CGS)
39	9	e ZN e ZN	08	34	00						

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
40	9	iP Z iPcP Z iS ZNE i E iSS N i N iLq NE iLr ZNE	14	11	53	1.0	2.0					70	u USCGS: 34.4N, 118.4W. Southern California 65 dead, many injured, est. damage 0.5-1.0 billion dollars. Total lateral extent of complex surface faulting about 12km. South of epicentre with overall trend 570E. Northern block has been thrust southwestward over southern block with max displacement about 2M. Acceleration of 1G measured on a steep mountain ridge. h about 13 km. H = 14 00 41.6 Mag. 6.6ML(PAS), 6.5ML (BRK), 6.2MB 6.5MS(CGS) Max. int. XI. 30° 24.0'N, 118° 23.7'W. Hypocentre by (PAS).
41	9	e(P) ZNE	18	38	41								
42	9	eP Z eS ZNE	18	56	43								
43	9	eP Z eiS ZNE	20	41	48								
44	9	iP Z ei(S) NE	21	48	06								u
	10	No Readings											
45	11	e(P) Z S ZNE	03	20	08								
46	11	iP ZNE S ZNE	10	35	23.2								u
47	11	eS N eL ZN	13	15	32						65		USCGS: 51.2N, 177.2W. Andreanof Islands, Aleutian Islands. h about 50 km. H = 12 55 53.8 Mag. 5.5MB 5.2MS(CGS)
48	12	iP ZNE epP Z S ZNE sS ZN e ZNE	19	14	34.3						41.8		d USCGS: 6.2S, 146.5E. East New Guinea region Felt (V) in Eastern New Guinea. h about 113 km. H = 19 06 53.6 Mag. 5.7 (CGS)
49	13	eP Z e N	22	17	23						42.1		USCGS: 6.0S, 146.2E. East New Guinea region Felt (IV) in Eastern New Guinea. h about 101 km. H = 22 09 39.4 Mag. 5.4 (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
66	21	eP	ZNE	03	06	11							6.9	USCGS: 20.5S, 173.4W. Tonga Islands h Normal H = 03 04 39.3 Mag. 5.0 (CGS)
		S	ZNE		07	27								
		L	ZNE		08	00								
		T	ZNE		12	30								
67	21	P	Z	03	23	00							12.7	USCGS: 23.8S, 180.0 South of Fiji Islands h about 512 km. H = 03 20 20.0 Mag. 5.2 (CGS)
		S	ZNE		25	07								
68	21	eiP	Z	08	34	08							10.3	USCGS: 20.9S, 179.5W. Fiji Islands region h about 597 km. H = 08 29 58.2 Mag. 4.3 (CGS)
69	21	iP	Z	10	48	40	1.1	1.4					97	d? USCGS: 23.8S, 67.2W. Chile-Argentina border region Felt at Antofogasta (IV) and Arica (III) h about 169 km. H = 10 35 20.1 Mag. 6.8(PAS), 6.3(CGS)
		i(PcP)	Z		49	48								
		iPP	ZE		52	36								
		iS	ZNE		59	00								
		(ScS)	ZNE	11	00	30								
		(PPS)	NE		02	00								
		i	ZNE		06	16								
		i	ZE		13	28								
		i	N		15	44								
		i	NE		16	33								
70	22	eiP	Z	10	12	06								
		(S)	ZNE		13	30								
71	24	eiP	Z	23	57	39								
		iS	ZNE		58	06								
72	25	eL	ZE	04	55	40							90	USCGS: 12.2N, 87.5W Near coast of Nigaragua. h about 52 km. H = 04 15 41.5 Mag. 5.3 (CGS)
73	25	iP	Z	10	28	49.5							3.3	d USCGS: 15.3S, 174.9W. Tonga Islands h about 260 km. H = 10 27 53.5 Mag. 4.4 (CGS)
		S	ZNE		29	33								
74	26	eP	Z	05	01	20							26.6	USCGS: 10.4S, 161.3E. Solomon Islands h about 90 km. H = 04 55 50.0 Mag. 5.9 (CGS)
		eS	Z		05	52								
		eSS	ZN		07	20								
		e	ZE		08	20								
75	26	eP	Z	07	38	12							21.9	USCGS: 10.6S, 166.0E. Santa Cruz Islands h Normal H = 07 33 14.8 Mag. 4.9MB 4.9MS (CGS)
		e(SS)	ZNE		42	16								
		eL	ZE		43	44								
		eL	N		44	40								
76	26	e	NE	08	10	40							21.8	USCGS: 10.7S, 166.1E. Santa Cruz Islands h about 56 km. H = 08 01 21.7 Mag. 4.6 (CGS)





No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
77	26	eP	Z	19	02	46							20.7	USCGS: 18.0S, 167.1E. New Hebrides Islands h about 11 km. H = 18 58 04.6 Mag. 5.6MB 5.0MS (CGS)
		eS	N		07	12								
		eS	ZE		08	20								
78	26	eP	Z	21	25	40								
		S	ZNE		26	30								
		T	ZNE		30	25								
79	26	iP	Z	21	46	26.2								u
		(S)	ZNE		47	30								
80	27	eiP	ZNE	00	08	38							11.1	USCGS: 22.2S, 179.6W. South of Fiji Islands h about 587 km. H = 00 06 11.9 Mag. 5.0 (CGS)
		S	ZNE		10	35								
81	27	eL	ZN	01	03	28							70	USCGS: 40.4N, 124.8W. Near coast of Northern California. Felt from McKenleyville to Fort Bragg. h Normal H = 00 31 39.9 Mag. 5.4(BRK), 5.3MB 5.1MS (CGS)
82	27	iP	Z	04	46	34							8.6	u USCGS: 20.2S, 177.8W. Fiji Islands region h about 524 km. H = 04 44 35.0 Mag. 5.0 (CGS)
		S	ZNE		48	07								
83	27	eiP	Z	13	28	34.2							9.6	USCGS: 21.4S, 177.9W. Fiji Islands region h about 390 km. H = 13 26 27.1 Mag. 5.0 (CGS)
		S	ZNE		30	12								
84	27	eiP	Z	23	12	35								
		S	ZNE		14	33								
85	28	eP	Z	10	39	16.6								
		e	NE		40	00								
		e	Z			12								
		e(T)	ZNE		42	45								
86	28	ei(S)	NE	11	01	52								
87	28	eiP	Z	11	12	19							7.0	USCGS: 19.3S, 176.5W. Fiji Islands region h about 109 km. H = 11 10 48.5 Mag. 4.8 (CGS)
		iS	N		13	28								
		i(S)	Z			32								
										11.120.0				
88	28	eP	Z	15	18	50								
		S	ZNE		19	27								
		T	ZNE		22	05								
89	28	iP	Z	16	49	25.1	2.7	1.0					42.7	d USCGS: 5.8S, 145.6E. East New Guinea region h about 118 km. H = 16 41 37.2 Mag. 4.8 (CGS)

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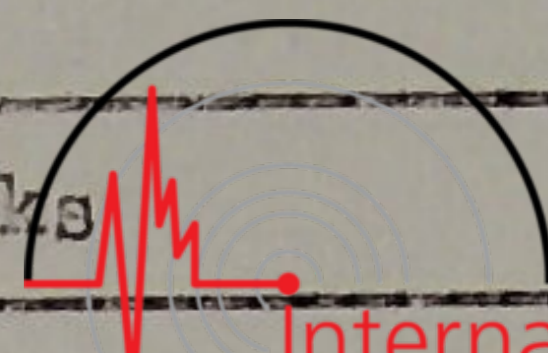
NEW ZEALAND
Department of Scientific and Industrial Research
Geophysics Division
APIA OBSERVATORY

FINAL SEISMOLOGICAL BULLETIN
STANDARD SEISMIC STATION (AFI)
AFIAMALU, WESTERN SAMOA

March 1971

No	Date	Phase		TIME (G.M.T.)			Az Tz An Tn Ae Te						Remarks
							(Deg.)						
1	1	eP	Z	06	59	16							
		S	ZNE			58							
		T	ZNE		03	10							
2	1	eiP	Z	09	25	39							
		ei(S)	ZNE		29	13							
3	1	eL	E	12	33	08							54
		eL	ZNE		35	48							
4	1	eL	ZNE	13	27	32							54
5	2	eL	N	11	50	20							34.3
		eL	ZE		51	32							
6	2	iP	Z	12	41	20.8							
		ei(S)	ZNE		42	52							
7	3	eS	NE	15	08	00							72
		eL	NE		16	32							
		eL	ZNE		19	04							
8	3	iP	Z	22	05	04.3							70
		eL	ZN		25	08							
9	4	eiP	ZNE	00	38	35							65
10	4	iP	Z	17	18	07							5.5
		i	Z			14							
		S	ZNE		19	05							

No	Date	Phase		TIME			Az Tz An Tn Ae Te						(Deg.)	Remarks
				(G.M.T.)										
11	5	iP	Z	21	02	14.6							53	d USCGS: 18.5N, 145.4E Mariana Islands h about 221 km. H = 20 53 17.6 Mag. 5.3 (CGS)
12	5	iP	Z	23	13	16								une
		S	ZNE			40								
		T	ZNE		15	35								
13	6	iP	Z	04	42	51.8							7.5	d USCGS: 18.8S, 177.6W Fiji Islands region h about 54.3 km. H = 04 40 57.5 Mag. 4.6 (CGS)
		iS	ZNE		44	20								
14	6	eP	Z	23	14	04								
		S	ZNE			40								
		T	ZNE		17	15								
15	7	iP	Z	02	44	55.2								d
		iS	ZNE		45	53								
16	7	iP	Z	07	08	24								u
		S	ZNE		10	00								
17	7	eiP	Z	08	24	16								
		eiS	ZNE		25	48								
18	7	e(P)	Z	17	44	55								
		ei(S)	ZNE		46	27								
19	8	eL	N	14	35	20							49.4	USCGS: 2.9S, 139.4E. Near North coast of West New Guinea. h about 15 km. H = 14 11 46.2 Mag. 5.2MB 5.4MS (CGS)
		eL	ZE		36	36								
20	8	iP	Z	21	30	25.3							7.8	u USCGS: 17.8S, 178.7W. Fiji Islands region h about 607km. H = 21 28 29.7 Mag. 4.7 (CGS)
		ei(S)	NE		31	57								
21	9	eiP	Z	01	35	27								
		S	ZNE		36	10								
22	9	eiP	Z	08	14	35							12.4	USCGS: 23.4S, 180.0E. South of Fiji Islands h about 511 km H = 08 11 52.8 Mag. 5.0 (CGS)
		eiS	NE		16	45								
23	9	iP	ZNE	18	07	11.9							2.3	d USCGS: 15.2S, 173.7W. Tonga Islands h Normal H = 18 06 41.4 Mag. 5.0 (CGS)
24	9	eiP	ZNE	20	46	47								
		eiS	ZNE		48	49								
25	9	eiP	ZNE	22	06	06								
26	9	e(P)	Z	23	06	12.7								
		S	ZNE		07	58								
10		No readings												

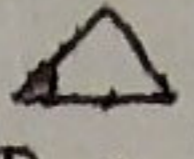


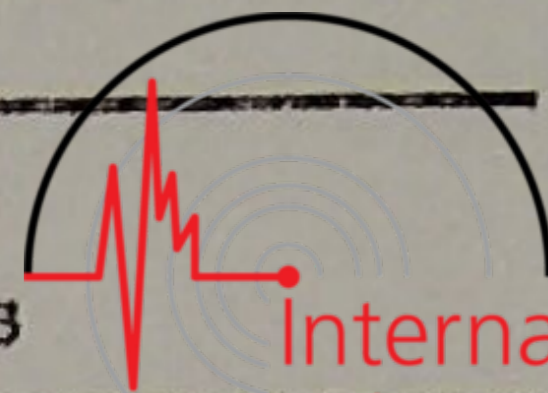
No	Date	Phase	TIME (G.M.T.)			Az	Tz	An	Tn	Ae	Te	(Deg.)	Remarks
27	11	eiP Z ei(S) ZNE	07	08	50							7.7	USCGS: 17.8S, 178.7W Fiji Islands region h about 619 km. H = 07 06 57.2 Mag. 4.5 (CGS)
28	11	eP Z eiS ZNE	08	24	13							11.5	USCGS: 24.5S, 175.9W. South of Tonga Islands. h normal H = 08 21 41.6 Mag. 4.8 (CGS)
29	12	eiP Z S ZNE T ZNE	02	22	45								
30	12	eiP ZNE eiS ZNE	14	29	46							5.8	USCGS: 18.3S, 175.7W. Tonga Islands h about 280 km. H = 14 28 28.8 Mag. 4.7 (CGS)
31	12	iP ZNE S ZNE	18	04	32								une
32	12	eL Z	23	07	44							75	USCGS: 18.8N, 119.8E. Philippine Islands region. h about 44 km. H = 22 32 51.0 Mag. 5.0
33	13	eiP Z iS N iS ZE L ZNE	15	51	24							14.7	USCGS: 18.4S, 173.6E. Fiji Islands region h about 20 km. H = 15 47 57.1 Mag. 5.6MB 6.0MS (CGS)
34	13	iP Z (pP) ZE S ZNE isS N i(sScS)NE	19	20	14.2	6.5	0.8					42.9	d USCGS: 5.7S, 145.4E. East New Guinea region Felt (IV) in Tabele area h about 118 km. H = 19 12 25.0 Mag. 6.3 (CGS)
35	13	eiP Z eS ZE	19	33	18								
36	13	iP ZE S ZE	21	54	50								d
37	13	iP Z S ZNE	23	22	25.6							74 *	USCGS: 50.6N, 129.9W. Vancouver Island region h normal H = 23 51 35.5 Mag. 5.7MB 6.1MS (CGS)
38	14	eS ZN eL E eL ZN	00	12	56								
39	14	eiP ZE S ZNE L ZE	06	13	45							19.7	USCGS: 21.3S, 169.2E. Loyalty Islands region h about 11 km. H = 06 09 14.5 Mag. 5.1MB 5.3MS (CGS)
40	14	iP Z S ZE	07	19	56.5								d Samoa Islands region

* Remarks on No. 37 should refer to earthquake No. 38

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
41	14	eiP (S)	Z ZE	11 53	51 41	56.2						7.7	USCGS: 17.5S, 178.9W. Fiji Islands region h about 641 km. H = 11 50 13.7 Mag. 4.1 (CGS)
42	14	eP eiS eT	Z ZE ZE	16	20 21 25	14 12 15							
43	15	P S T	ZE ZE ZE	10	49	00 45 46						4.0	USCGS: 17.6S, 173.0W. Tonga Islands h normal H = 10 48 10.7 Mag. 5.2MB 5.2MS (CGS)
44	15	eiP	Z	14	26	11.5	2.5	0.7					
45	15	eP e e	ZE ZNE ZE	19	02 07 08	55 08 24						20.8	USCGS: 13.1S, 166.7E. New Hebrides Islands. h about 49 km. H = 18 58 12.0 Mag. 4.8MB 5.2MS (CGS)
46	15	iP e	Z ZNE	20 21	56 00	15.8 28						20.0	u USCGS: 15.5S, 167.6E. New Hebrides Islands Felt (III) at Luganville h about 118 km. H = 20 51 47.8 Mag. 5.4 (CGS)
47	15	eP S T	Z ZE ZE	22	12 14	01 34 27							
48	16	e(P)	Z	03	18	01							
49	16	e(P)	ZNE	08	03	53							
50	16	iP S	ZNE ZNE	11	16 17	43.5 16							d
51	16	iP iS iS	ZNE ZN E	12	37 42 43	41 00 00						24.1	u USCGS: 10.9S, 163.7E. Solomon Islands h about 42 km. H = 12 32 30.6 Mag. 6.4 ¹ / ₄ (BRK), 5.8MB 6.4MS (CGS)
52	16	eP	Z	12	43	06.5							
53	16	eiP eS eSSS L L	ZNE ZNE NE ZE ZNE	20 21	45 54 02 04 05	54 36 00 04 08	1.3	1.4				65	USCGS: 8.3N, 127.1E. Philippine Islands region Felt (III RF) at Davao and Hinatuan h about 52 km. H = 20 35 18.8 Mag 5.7 (CGS)
54	17	eP	ZNE	03	22	44						49	USCGS: 3.2S, 139.8E. West New Guinea. h normal H = 03 13 59.7 Mag. 5.6 (CGS)
55	17	eP ei(S)	Z ZNE	04	11 13	39 16							
56	17	eP eiS	Z ZNE	20	31 32	40 27							



No	Date	Phase	Time (G.M.T.)							 (Deg.)	Remarks
				Az	Tz	An	Tn	Ae	Te		
57	18	eiP Z eiS ZNE	02 37 29 39 38							12.6	USCGS: 23.8S, 180.0E South of Fiji Islands h about 542 km. H = 02 34 48.7 Mag. 5.0 (CGS)
58	18	eiP Z ei(S) ZNE	03 15 55.5 17 35								
59	18	eiP ZNE S ZNE T ZNE	05 21 44 23 00 28 50							7.5	USCGS: 20.9S, 174.4W. Tonga Islands h normal H = 05 20 03.7 Mag. 5.2 (CGS)
60	18	eP Z e(S) ZNE	18 40 18 42 10								
61	19	eP ZNE eS N eL ZE	02 26 53 31 00 32 24	0.6	1.2					19.7	USCGS: 21.3S, 169.2E. Loyalty Islands region h about 36 km. H = 02 22 29.6 Mag. 5.3MB 5.4MS (CGS)
62	19	eiP Z eiS ZNE eT ZNE	03 04 58 07 12 17 58							13.2	USCGS: 26.0S, 177.2W. South of Fiji Islands h about 80 km. H = 03 02 03.0 Mag. 4.5 (CGS)
63	19	eiP ZNE S ZNE	03 10 37 11 44							5.5	USCGS: 16.2S, 176.9W. Fiji Islands region h about 429 km. H = 03 09 16.5 Mag. 4.5 (CGS)
64	19	iP ZNE	03 40 42.9								d
65	19	eP Z	16 56 03							64	USCGS: 2.1N, 126.8E. Molucca Passage h normal H = 16 45 30.1 Mag. 5.4MB 5.3MS (CGS)
66	19	iP ZNE S ZNE	20 23 12 35								u
67	20	eL Z	08 56 36								
68	20	iP ZNE S ZNE	13 21 37 58								une
69	21	eiP ZNE eiS NE	15 18 49 20 23							7.6	USCGS: 18.1S, 178.4W. Fiji Islands region h about 686 km. H = 15 16 56.9 Mag. 4.2 (CGS)
70	22	eL ZN	10 25 32								
71	23	eP ZNE S ZNE	02 17 36 19 20							10.1	USCGS: 22.9S, 176.4W. South of Fiji Islands h about 76 km. H = 02 15 26.9 Mag. 6.1(PAS), 6.0(BRK), 6.0(CGS)
72	23	e ZN eSS ZNE eL E eL ZN	09 56 44 10 03 52 17 44 23 36							123	USCGS: 71.ON, 7.OW. Jan Mayen Island region Felt (V) on Jan Mayen h normal H = 09 26 29.3 Mag. 6.2(PAS), 6.5(BRK)



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
102	31	iP	Z	07	48	06.1								d
		S	ZNE		49	17								
103	31	eP	Z	09	24	54						66	USCGS: 9.0N, 125.7E. Mindanao, Philippine Islands. Felt (IIIRF) at Surigao, (IIRF) at Hinatuan and (I RF) at Davao h about 49 km. H = 09 14 03.8 Mag. 5.1 (CGS)	
		eS	ZE		34	08								
		eL	ZE		44	28								
104	31	eP	Z	10	34	48						66	USCGS: 9.0N, 125.7E. Mindanao, Philippine Islands Felt (IIIRF) at Surigao and (IIRF) at Hinatuan and Davao. h normal H = 10 23 57.3 Mag. 5.4MB 5.1MS (CGS)	
		eL	ZE		53	48								
105	31	eP	Z	11	36	51						16.2	USCGS: 29.1S, 177.5W. Kermadec Islands h about 67 km. H = 11 33 14.1 Mag. 5.2 (CGS)	
		eiS	ZNE		39	31								
		eL	ZNE		40	40								
		T	ZNE		50	20								

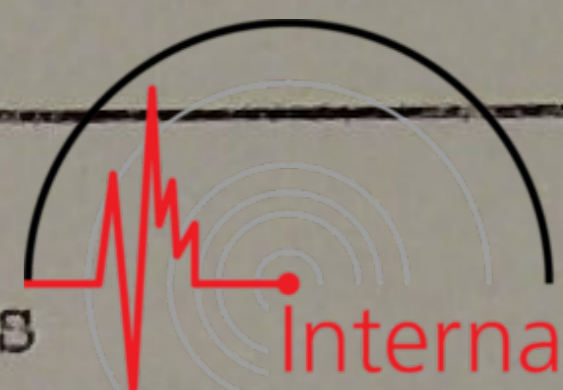
"P.D. Muller
OBSERVER IN CHARGE

No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	Δ (Deg.)	Remarks
14	4	eiP ZNE eiS ZNE	18	33 35	23 32							12.8	USCGS: 23.8S, 179.9E. South of Fiji Islands h about 564 km. H = 18 30 45.5 Mag. 4.7 (CGS)
15	4	eP ZNE eS ZNE e(SSS)ZNE eL ZNE	18 19	50 59 07 10	32 32 32 12							68	USCGS: 38.4N, 142.1E. Near east coast of Honshu, Japan. Felt (III JMA) in Northern Honshu. h about 52 km. H = 18 39 39.2 Mag. 5.8 (CGS)
16	5	eP Z eS E e(SSS)N eL ZNE	05	12 21 29 33	46 48 40 24							65	USCGS: 0.3S, 124.7E. Molucca Sea h normal H = 05 02 11.8 Mag. 5.8 (CGS)
17	5	eP Z eS ZNE	09	15 23	19 52							65	USCGS: 53.4N, 170.6W. Fox Islands, Aleutian Islands. h about 153 km. H = 09 04 42.8 Mag. 5.9(PAS), 6.1(BRK), 5.8(CGS)
18	5	eP ZNE eiS ZNE	14	29 31	29.5 53							14.3	USCGS: 25.9S, 179.8W. South of Fiji Islands h about 432 km. H = 14 26 30.7 Mag. 5.0 (CGS)
19	5	eP Z eiS ZNE	16	04 05	28 23								
20	5	eiP Z	20	03	01								
21	5	iP ZNE eiS ZNE	20	03 05	22 06							8.8	d USCGS: 20.1S, 178.3W. Fiji Islands region h about 522 km. H = 20 01 09.5 Mag. 4.7 (CGS)
22	6	iP Z S ZNE	03	41 55	34.5 55								d
23	6	eiP ZNE S ZNE	11	08 10	56 53							11.2	USCGS: 22.2S, 179.6W. South of Fiji Islands h about 603 km. H = 11 06 30.6 Mag. 5.6 (CGS)
24	6	eP Z S ZNE	14	05 07	56 15								
25	6	eiP ZNE eiS ZNE	16	04 06	11 25							13.2	USCGS: 23.8S, 179.2E. South of Fiji Islands h about 540 km. H = 16 01 25.2 Mag. 5.3 (CGS)
26	7	eiP Z eiS ZNE	03	07 09	39 08								
27	7	iP Z iS ZNE i N iSSS N iL ZE	05	09 18 21 25 28	49.7 12 57 20 16							61	USCGS: 2.4N, 129.1E. Halmahera h about 47 km. H = 04 59 39.4 Mag. 6.5(BRK), 6.5MB 6.6MS (CGS)



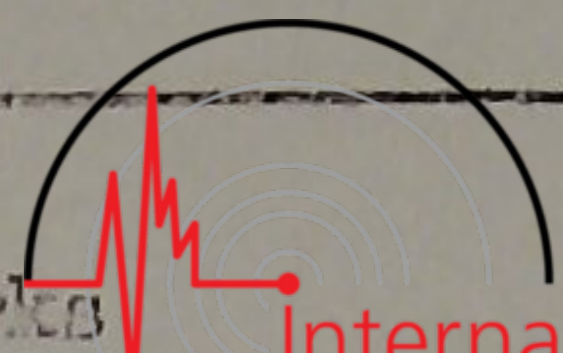
No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
28	8	iP ZNE eiPcP Z e Z ePP Z eS ZNE eSS ZNE i(L) N eL N eL ZE	07 08	58 00	29 04	3.5	1.0					87	u USCGS: 4.3S, 102.4E. Southern Sumatra h about 75 km. H = 07 45 57.8 Mag. 5.7(PAS), 6.3(CGS)
29	8	ei(P) ZNE ei(S) NE	20	12 14	41 50								
30	9	eiP ZNE	00	19	48	1.5	1.0						
31	9	eiP ZNE	07	28	30								
32	9	eiP Z eiS NE	10	30 32	43 12								
33	10	iP ZNE	00	08	17.3								d
34	10	eiP ZNE S ZNE	01	24 26	30 17							10.0	USCGS: 21.3S, 178.8W. Fiji Islands region h about 542 km. H = 01 22 17.2 Mag. 5.7 (CGS)
35	10	eiP ZNE S ZNE	08	59	36 58								
36	10	eP Z eS ZNE	12	02 04	58 53								
37	10	iP ZNE S ZNE	12	33	34.2 56								
38	10	e(P) Z S NE	13	05 07	22 02							9.7	USCGS: 20.8S, 178.7W. Fiji Islands region h about 582 km. H = 13 03 17.4 Mag. 4.7 (CGS)
39	10	eL ZN	23	38	52							20.8	USCGS: 11.2S, 167.1E. Santa Cruz Islands h normal H = 23 28 59.1 Mag. 5.0 (CGS)
40	11	eiP ZNE e(S) ZNE	00	01 03	25 17								
41	11	eP Z	09	19	45							67	USCGS: 0.2S, 122.9E. Northern Celebes h about 119 km. H = 09 09 06.8 Mag. 5.1 (CGS)
42	12	ei(P) ZNE	05	12	25								
43	12	eL ZNE	18	51	28							60	USCGS: 34.5S, 109.1W. Easter Island, Cordillera h normal H = 18 24 07.3 Mag. 5.1 (CGS)
44	12	eiP ZNE eS ZNE eT ZNE	18 19	59 01	53 46							11.6	USCGS: 24.6S, 176.0W. South of Fiji Islands h normal H = 18 57 19.5 Mag. 5.1 (CGS)

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
45	12	eiP eiS	ZNE ZNE	19 40	38 15	10.5						12.4	USCGS: 23.5S, 179.7W. South of Fiji Islands h about 546 km. H = 19 35 33.2 Mag. 4.9 (CGS)
46	12	eiP	ZNE	20	46	16						18.6	USCGS: 19.1S, 169.6E. New Hebrides Islands h about 272 km. H = 20 42 18.1 Mag. 5.2 (CGS)
47	12	iP S	ZNE ZNE	21 04	02 00	29						7.4	d USCGS: 17.9S, 178.2W. Fiji Islands region h about 612 km. H = 21 00 37.3 Mag. 5.3 (CGS)
48	12	ei(P) ei(S)	ZNE ZNE	21	31 33	52 53							
49	13	eiP eiS L T	ZNE ZNE ZNE ZNE	05	20 22 23 31	29 27 40 10						11.6	USCGS: 24.7S, 175.8W. South of Tonga Islands h normal H = 05 17 54.3 Mag. 5.3MB 5.3MS (CGS)
50	13	iP (S)	ZNE ZNE	05	58	18.9 48						3.0	d USCGS: 15.9S, 174.0W. Tonga Islands Felt (II) at Apia, Samoa Islands h about 73 km. H = 05 57 34.5 Mag. 5.5 (CGS)
51	13	eP eiS (L) T	Z ZNE ZNE ZNE	10	50 51 52 57	42 58 36 25							
52	13	iP S	ZNE ZNE	17	49 50	17.5 49						7.8	d USCGS: 17.7S, 178.8W. Fiji Islands region h about 559 km. H = 17 47 24.2 Mag. 5.3 (CGS)
53	13	eL	Z	23	57	48							
54	14	eiP S	ZNE ZNE	04	39 40	52 13							
55	14	eiP S eT	ZN ZN ZN	08	43 44 54	02 57 43							
56	15	eP eiS eT	ZN ZN ZN	00 01	43 08	31 39 07						25.0	USCGS: 36.7S, 177.3E. Off E. coast of North Island, N.Z. h about 245 km. H = 00 37 28.6 Mag. 5.5 (CGS)
57	15	e(P) eiS	ZNE ZNE	04	51 52	42 38							

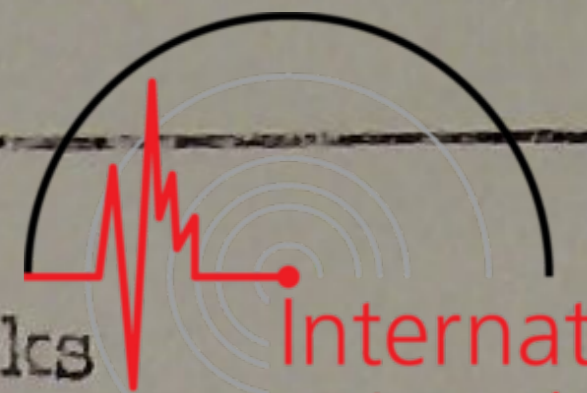


No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te				△ (Deg.)	Remarks	
58	15	iP eiS	ZNE ZNE	05 53	52 43	33 43	3.0	1.0			6.0	u USCGS: 15.5S, 177.7W. Fiji Islands region h about 395 km. H = 05 51 00.4 Mag. 4.7 (CGS)
59	15	iP	Z	08	56	02.1	1.0	1.0			25.3	d USCGS: 11.1S, 162.4E. Solomon Islands h about 41 km. H = 08 50 34.5 Mag. 4.9 (CGS)
60	15	iP S	Z ZNE	09	24	11.5 33						d
61	15	eP iS	Z ZNE	10	14 15	40 39.3						
62	15	iP S	ZNE ZNE	19	11	26.5 55						u
	16	No readings										
63	17	eiP e eL	ZNE N ZE	01	47 55 57	56 44 40	1.5	1.0			33.7	USCGS: 6.3S, 154.7E. Solomon Islands Felt (VI) at Panguna h about 72 km. H = 01 41 20.1 Mag. 5.7 (CGS)
64	17	eiP eiS	ZNE ZNE	06	07 08	10 21	3.1	0.9			6.1	USCGS: 16.0S, 177.7W. Fiji Islands region h about 463 km. H = 06 05 38.6 Mag. 4.6 (CGS)
65	17	iP eiS	Z ZNE	10	17 18	36.6 18						d
66	17	eS eL	E ZE	17	40 56	48 24					81	USCGS: 0.2S, 91.6W. Galapagos Islands Felt on Ship near Fernandina h normal H = 17 19 12.8 Mag 5.4MB 5.2MS (CGS)
67	17	eP eL	Z ZNE	20	06 11	17 32					20.1	USCGS: 19.8S, 168.1E. New Hebrides Islands h about 10 km. H = 20 01 35.8 Mag. 5.1 (CGS)
68	18	ei(P)	ZNE	06	38	57						
69	18	e eL	NE ZN	13	45 47	24 08						
70	18	eP eS eSS eSSS eL eL	Z N N N N ZE	17 18	53 03 09 12 15 18	58 44 04 24 04 08					81	USCGS: 0.2S, 91.4W. Galapagos Islands Felt on Fernandina h normal H = 17 41 27.9 Mag. 6.0(PAS), 5.7MB 5.5MS (CGS)
71	18	iP S	Z ZN	18	54 55	46.8 32						d

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks	
72	19	eP ZNE	13	45	24	1.0	1.0						18.8	USCGS: 21.3S, 170.1E. Loyalty Islands region h about 87 km. H = 13 41 08.3 Mag. 4.8 (CGS)
73	19	iP Z	14	40	43.3									u
74	19	eiP ZNE S ZNE T ZNE	19	10	54 11 23 13 17									
75	20	eP Z	14	26	09								96	USCGS: 21.8S, 69.0W. Northern Chile Felt widely in Northern Chile h about 93 km. H = 14 12 46.8 Mag. 6(PAS), 5.7(BRK) 5.7(CGS)
76	20	eP Z	16	23	50								64	USCGS: 4.7N, 126.5E Talaud Islands h about 79 km. H = 16 13 21.0 Mag. 5.6 (CGS)
77	21	eP ZNE eiS ZNE eT ZNE	06	24	21 26 57 37 47								15.2	USCGS: 27.9S, 177.8W. Kermadec Islands region h about 169 km. H = 06 21 01.1 Mag. 4.2 (CGS)
78	21	eS ZNE e(SSS)E eL ZN	07	02	20 10 00 12 44								66	USCGS: 53.9N, 161.5W. South of Alaska h about 21 km. H = 06 42 16.3 Mag. 5.1MB 5.4MS (CGS)
79	21	eP Z eiS ZNE eT ZNE	08	37	38 39 36 48 35								11.4	USCGS: 24.5S, 175.9W. South of Tonga Islands h normal H = 08 35 05.7 Mag. 4.7 (CGS)
80	21	eiP Z eiS ZNE	19	04	59.5 06 23								7.6	USCGS: 18.9S, 177.7W. Fiji Islands region h about 450 km. H = 19 03 13.4 Mag. 4.3 (CGS)
	22	No readings												
81	23	e(SSS)E eL Z	12	15	40 18 12								33.7	USCGS: 6.4S, 154.7E. Solomon Islands Felt (V) at Panguna h about 75 km. H = 12 02 06.7 Mag. 4.8 (CGS)
82	23	eP Z	12	39	21								33.7	USCGS: 6.3S, 154.7E. Solomon Islands Felt (VI) at Panguna h about 67 km. H = 12 32 46.0 Mag. 5.3 (CGS)
83	23	eiP Z S ZE	16	28	58 29 29									



No	Date	Phase		Time (G.M.T.)									△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
84	23	eP eS	Z ZE	21 10	09 39	09						7.7	USCGS: 17.8S, 178.7W. Fiji Islands region h about 599 km. H = 21 07 17.1 Mag. 5.0 (CGS)	
85	24	iP S	ZNE ZNE	02	20 52	30.1							u	
86	24	eiP	ZNE	02	40	43						21.9	USCGS: 10.7S, 166.0E. Santa Cruz Islands h about 22 km. H = 02 35 58.3 Mag. 5.3 (CGS)	
89	24	eP S eT	ZNE ZNE ZNE	11	21 22 25	05 02 47								
90	25	e eL	NE Z	04	18 19	32 12						32.5	USCGS: 7.3S, 155.8E. Solomon Islands h about 63 km. H = 04 03 34.5 Mag. 4.7 (CGS)	
91	25	eP S	ZNE ZNE	19	05 06	48 08								
92	26	eiP eiS e(L) eT	Z ZNE ZE ZNE	04	21 23 24 31	55 52 00 45						11.5	USCGS: 24.5S, 176.2W. South of Fiji Islands h normal H = 04 19 18.8 Mag. 5.3MB 5.5MS (CGS)	
93	27	eiP iS	ZNE ZNE	01	01 02	32 14								
94	27	iP	Z	03	29	20.7	0.5	1.0				48.7	u USCGS: 3.6S, 140.0E. West New Guinea h about 59 km. H = 03 20 30.1 Mag. 5.0 (CGS)	
95	27	e e	NE Z	08	53 54	56 28								
96	27	iP eiS	ZNE ZNE	10	28 29	17.3 33	4.6	0.6				7.1	u USCGS: 18.3S, 177.5W. Fiji Islands region h about 363 km. H = 10 26 38.3 Mag. 4.3 (CGS)	
97	27	eL	Z	10	38	00						74	USCGS: 19.2N, 121.2E. Philippine Islands region h about 18 km, H = 10 04 06.3 Mag. 5.0 (CGS)	
98	27	iP S	ZNE ZNE	14	23 24	42 00							u Samoa Islands region	
99	27	iP S	ZNE ZNE	15	05	33.1 54							u	
100	27	eP eiS	Z E	16	11 14	36 55						19.5	USCGS: 31.9S, 179.9W. Kermadec Islands region h about 480 km. H = 16 07 33.0	



No	Date	Phase		Time (G.M.T.)									△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
101	27	eP	ZNE	19	59	21							17.8	USCGS: 30.9S, 177.0W. Kermadec Islands h about 38 km. H = 19 55 18.1 Mag. 4.9 (CGS)
		eiS	ZNE	20	02	21								
		eT	ZNE		12	15								
102	28	eiP	ZNE	10	12	19								
		S	ZNE		13	00								
103	28	iP	Z	12	33	22.6							9.2	u USCGS: 20.5S, 178.3W. Fiji Islands region h about 580 km. H = 12 31 15.8 Mag. 4.5 (CGS)
		S	ZNE		35	02								
104	28	eSS	ZN	16	02	44							93	USCGS: 22.9N, 101.0E. Burma-China border region h about 15 km. H = 15 32 00.9 Mag. 5.6 MB 6.3MS (CGS)
		eL	NE		11	36								
		eL	Z		14	52								
105	29	eSSS	NE	16	35	00							49	USCGS: 54.5S, 136.7W. South Pacific Cordillera h normal H = 16 14 57.6 Mag. 5.0 (CGS)
		L	ZNE		36	40								
106	29	eP	Z	20	07	32							71	USCGS: 12.6N, 122.3E. Luzon, Philippine Islands h about 4 km. H = 19 56 11.6 Mag. 5.9 (BRK), 5.5MB 5.7MS (CGS)
		eS	NE		16	52								
		eL	NE		26	00								
		eL	ZE		29	36								
107	30	ei(P)	Z	02	05	46								
		ei(S)	N		07	23								
		i(S)	ZE			27								
108	30	eL	ZN	16	18	48							66	USCGS: 52.8N, 172.5E. Near Islands, Aleutian Islands Felt (II) on Attu and Shemya h about 37 km. H = 15 48 06.5 Mag. 5.5MB 5.0MS (CGS)
109	30	P	Z	16	51	37								
		S	ZNE			56								

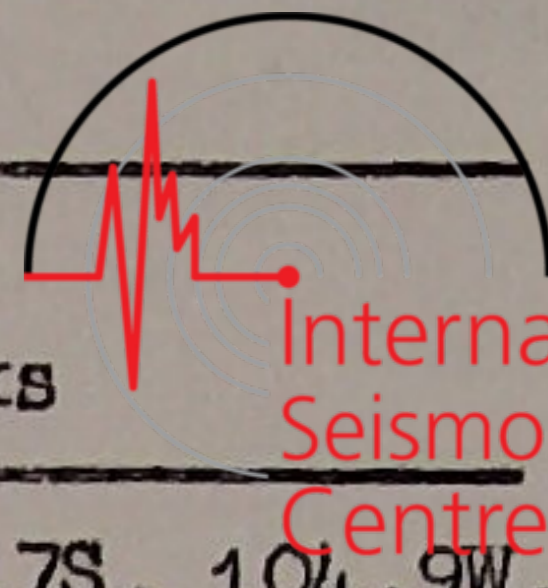
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No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
28	7	eiP eiS	ZNE ZNE	19 52	50 16	45					7.8	USCGS: 17.8S, 178.8W. Fiji Islands region h about 606 km. H = 19 48 54.2 Mag. 4.6 (CGS)
29	7	ei(P)	ZNE	22	31	44						
30	8	iP eS	Z ZN	01 12	02 40	21.4	3.4	1.2			88	u USCGS: 42.2S, 71.7W. S. Chile-Argentina border region Felt (V) at Valdivia, Chile h about 151 km. H = 00 49 45.6 Mag. 6.8(PAS), 6 $\frac{1}{4}$ (BRK), 5.9(CGS)
31	8	e(P)	Z	08	36	58						
32	8	eP	Z	12	04	36	0.5	1.1			66	USCGS: 0.5N, 123.7E. Northern Celebes h about 292 km. H = 11 54 20.5 Mag. 5.3 (CGS)
33	8	iP iS	ZNE ZNE	22 34	33 22	46.2	3.4				3.4	u USCGS: 16.6S, 173.8W. Tonga Islands h about 55 km. H = 22 32 55.6 Mag. 4.3 (CGS)
34	8	eP e(S)	ZNE ZE	23 26	20 40	13						
35	9	P S	Z ZNE	01	42	00 12						Samoa Islands region
36	9	iP iS	ZNE ZNE	07 35	34 09	24.3	6.0	0.8			4.2	une USCGS: 16.7S, 174.8W. Tonga Islands h about 212 km. H = 07 33 21.8 Mag. 4.7 (CGS)
37	9	iP S	ZNE ZNE	08 08	07 17	56.3						u
38	9	eiP eS eSS eSSS eL	ZNE ZNE Z ZNE ZNE	08 44 48 51 53	35 08 00 12 48	31	64				64	USCGS: 39.8S, 104.8W. Southern Pacific Ocean This epicenter and those at 08 53 25.9, 18 00 59.9 & 18 35 09.8 are located 450km south of the Chile rise seismic- zone, but may lie on an extension of the WNW-ESE fracture that passes through the rise 46°S 91°W. The only epicenter previously published near these was at 41°S, 106°W. in 1927 with magnitude 6 $\frac{1}{2}$ (Gutenberg and Richter) h normal H = 08 25 01.7 Mag 6.1(PAS), 6.5(BRK), 6.2MB 6.0MS (CGS)



No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
39	9	e(P) Z	09	04	21							64	USCGS: 39.7S, 104.9W. Southern Pacific Ocean h normal H = 08 53 25.9 Mag. 5.2 (CGS)
40	9	eP Z eiS ZNE eT ZNE	12	40	48								
41	9	eS ZNE eL ZNE	18	54	24							63	USCGS: 39.7S, 105.0W. Easter Island, Cordillera h normal H = 18 35 09.8 Mag. 5.4MB 5.4MS (CGS)
42	10	iP ZNE S ZNE	09	20	56.7							2.4	une USCGS: 15.1S, 173.8W. Tonga Islands Felt (II) at Apia h normal H = 09 20 25.0 Mag. 4.9 (CGS)
43	10	eP Z eS ZNE e(SSS)N eL ZE	12	04	28							65	USCGS: 8.0N, 126.8E. Mindanao, Philippine Islands h normal H = 11 53 53.0 Mag. 5.8MB 5.4MS (CGS)
44	11	eiP ZNE S ZNE	05	59	21								
45	11	(P) Z ei(S) ZNE	06	32	00								
46	12	eP Z eL ZE	02	55	48							36.7	USCGS: 6.3S, 151.8E. New Britain region Felt (II) at Rabaul h about 38 km. H = 02 48 44.4 Mag. 5.3 (CGS)
47	12	eiPKP Z	06	45	08							151	USCGS: 37.6N, 29.8E. Turkey 100 killed, many injured and major damage in Burdur area h about 23 km. H = 06 25 13.0 Mag 6.3(PAS), 5.5MB 5.9MS (CGS)
48	12	ePMP Z	10	30	29							151	USCGS: 37.5N, 29.7E. Turkey h normal H = 10 10 37.2 Mag. 5.5 (CGS)
49	12	iP Z e(S) NE e(T) ZNE	12	04	30.5	1.0	1.0						u
50	12	ePKP Z	13	17	18	0.9	1.5					151	USCGS: 37.6N, 29.6E. Turkey h normal H = 12 57 24.8 Mag 5.4MB 5.2MS (CGS)



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
84	21	eP eiS	Z ZNE	00	32 33	25 45							7.5	USCGS: 19.2S, 177.2W. Fiji Islands region h about 396 km. H = 00 30 43.8 Mag. 4.9 (CGS)
85	21	eP S T	Z ZNE ZNE	11	37 39	09 33 32								
86	21	iP S	ZNE ZNE	12	39	05 36								u
87	21	eS e(SSS) eL	ZN E ZN	19	16 23 26	36 20 12							65	USCGS: 52.5N, 173.2W. Andreanof Islands, Aleutian Islands Felt (II) on Adak h about 36 km. H = 18 56 43.7 Mag. 5.7MB 5.3MS (CGS)
88	21	eiP S	ZNE ZNE	20	02 03	52 20								
89	21	eiP eiS eT	Z NE ZNE	20 21	57 00 11	31 25 08							16.6	USCGS: 29.2S, 178.5W. Kermadec Islands h about 219 km. H = 20 53 54.0 Mag. 4.4 (CGS)
90	22	eiP ei(S) ei(S)	ZNE N E	06	13 15	44 33 38								
91	22	ePKP PP (PKKP) PPP (SKKS) SS SSS L L	Z Z Z Z NE ZNE Z Z Z	17	03 06 13 18 22 25 31 47 52	39 52 08 04 12 20 14 00 20							14.2	USCGS: 38.8N, 40.5E. Turkey 1000 dead, many injured and major property damage at Bingol and nearby villages. Felt (II) in Provinces of eastern Anatolia h about 3 km. H = 16 43 58.7 Mag. 6.9(PAS), 6.9(BRK), 6.0MB 6.7MS (CGS)
92	23	eiP eiS	Z ZNE	03	27 29	16 30							12.9	USCGS: 23.5S, 179.1E. South of Fiji Islands h about 580 km. H = 03 24 34.2 Mag. 4.6 (CGS)
93	23	eP ei(S)	Z ZNE	17	32 34	41 14								
94	24	ei(P)	Z	03	03	22								
95	24	iP S	ZNE ZNE	03	06	14.4 35								u
96	24	e(P) eiS	Z ZNE	10	04 05	23 27								
97	24	eiP S	Z ZNE	22	47 48	32 03								
98	25	ePKP	ZNE	06	03	14.6							14.2	USCGS: 39.0N, 29.7E. Turkey Slight property damage at Eskisehir, Afyon and Kytahya. h about 24 km. H = 05 43 27.0 Mag 5.8MB 5.5MS (CGS)



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					(Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
114	29	eS eL	ZN ZN	09 13 20 25 28							71	USCGS: 31.3N, 131.4E. Kyushu, Japan Max, int. IV JMA Felt throughout Kyushu and on Tanega Shima h about 43 km. H = 08 52 43.6 Mag. 5.5MB 5.7MS (CGS)	
115	29	iP eiS	Z ZNE	23 09 25 10 41								d	
116	30	eP eiS	Z ZNE	02 13 23 14 45							8.2	USCGS: 21.2S, 175.6W. Tonga Islands h about 115 km. H = 02 11 33.7 Mag. 4.4 (CGS)	
117	30	eiP	Z	07 12 38							18.7	USCGS: 19.1S, 169.4E. New Hebrides Islands h about 255 km. H = 07 08 38.1 Mag. 5.3 (CGS)	
118	30	iP S T	ZNE ZNE ZNE	08 55 16.1 58 04 56 04	6.5	1.0						d	
119	30	iP S T	ZNE ZNE ZNE	09 11 19 59 00 14 00								d	
120	30	iP eiS	Z ZNE	15 03 07.2 41								u	
121	31	eP eiS	Z ZNE	02 05 26 06 49							8.9	USCGS: 22.1S, 175.1W. Tonga Islands region h normal H = 02 03 26.9 Mag. 4.6 (CGS)	
122	31	e(P) eiS	Z NE	03 41 37 42 59									
123	31	eL	Z	04 43 00							123	USCGS: 72.2N, 1.2E. Norwegian Sea h normal H = 03 46 52.2 Mag. 6.0(PAS), 6.1(BRK), 5.5MB 5.7MS (CGS)	
124	31	eL	Z	06 00 40							98	USCGS: 25.2N, 96.5E. Burma h normal H = 05 13 59.7 Mag. 5.3MB 6.1MS (CGS)	
125	31	e(P) eiS e(T)	Z ZNE ZNE	06 55 57 04 07 02 37									

"
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NEW ZEALAND
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
Geophysics Division
APIA OBSERVATORY



FINAL SEISMOLOGICAL BULLETIN
STANDARD SEISMIC STATION (AFI)
AFIAMALU, WESTERN SAMOA

July 1971

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
1	1	iP	Z	01	25	54.8	6.4	1.0				56	d USCGS: 6.4S, 130.3E. Banda Sea h about 133 km. H = 01 16 16.8 Mag. 5.8 (CGS)
		eS	N		34	20							
		eS	ZE			52							
		eL	ZN		40	20							
2	1	eP	Z	01	51	24.8							
		eS	NE		52	05							
3	1	e	ZNE	02	37	28							
		e	ZNE		38	12							
4	1	e	ZN	02	48	48							
		e	ZNE		49	36							
5	1	eP	Z	09	40	44					22.9		USCGS: 11.0S, 165.0E. Santa Cruz Islands h normal H = 09 35 37.6 Mag. 4.4 (CGS)
		eS	ZN		44	56							
		eL	ZE		46	56							
6	1	iP	ZNE	11	58	33.3					2.0		une USCGS: 15.4S, 173.1W. Tonga Islands h about 17 km. H = 11 58 00.9 Mag. 5.0 (CGS)
		S	ZNE			54							
7	1	iP	ZNE	17	48	55.7							d
		iS	ZNE		49	36							
		T	ZNE		52	15							
8	2	iP	ZNE	05	10	47					3.4		u USCGS: 16.1S, 174.4W. Tonga Islands h about 160 km. H = 05 09 59.3 Mag. 4.4 (CGS)
		S	ZNE		11	22							
9	2	eS	ZNE	05	54	40					69		USCGS: 12.3N, 123.9E. Luzon, Philippine Is. Felt (V RF) on Masbate (IV) in Southern Luzon, and (III) on Samar. h about 35 km. H = 05 34 27.3 Mag. 3.3MB 5.6MS (CGS)
		eLq	N	06	02	56							
		eLr	ZE		06	12							
10	3	iP	ZNE	00	41	13.4							
		S	ZNE			34							
11	3	iP	ZNE	00	51	25.4					4.2		u USCGS: 17.7S, 173.2W. Tonga Islands h normal H = 00 50 32.1 Mag 5.2MB 5.0MS (CGS)
		S	ZNE		52	24							

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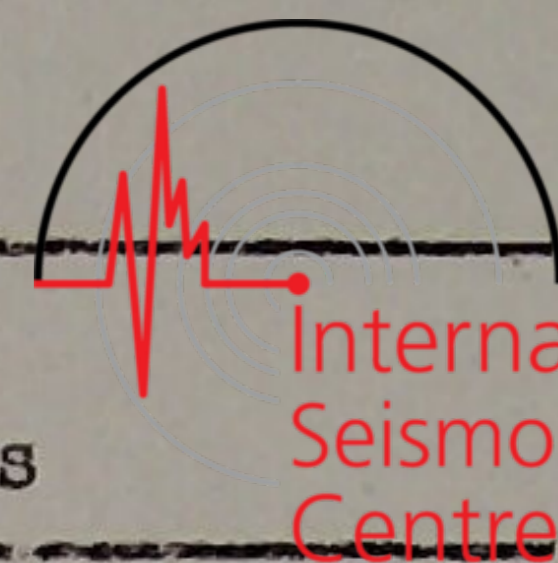
No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
12	3	iP iS	ZNE ZNE	04 11	10 53	03.8						10.5	u USCGS: 21.5S, 179.1W. Fiji Islands region h about 600 km. H = 04 07 44.3 Mag. 5.3 (CGS)	
13	3	iP S	ZNE ZNE	12 17	15 16	10						12.5	d USCGS: 23.5S, 180.0 South of Fiji Islands h about 543 km. H = 12 12 32.3 Mag. 5.4 (CGS)	
14	3	iP iS	ZNE ZNE	22 48	47 33	03						7.9	u USCGS: 19.5S, 177.5W. Fiji Islands region h about 580 km. H = 22 45 08.2 Mag. 4.8 (CGS)	
15	4	eS eLq eLr	NE NE Z	09 28	19 00 24	36						54	USCGS: 21.2N, 146.2E. Mariana Islands region h about 67 km. H = 09 02 30.8 Mag. 5.2 (CGS)	
16	4	iP S	ZNE ZNE	11	47 35	24							d	
17	4	e(S) eSSS eL	Z ZN ZNE	11 12	52 00 04	16						73	USCGS: 15.6N, 121.9E. Luzon, Philippine Is. Felt (V RF) in Manila area h about 30 km. H = 11 30 51.1 Mag. 5.5MB 5.1MS (CGS)	
18	5	eP S	Z ZNE	01 29	25 21	38						20.2	USCGS: 33.0S, 178.6W. South of Kermadec Is. h normal H = 01 21 05.1 Mag. 5.1 (CGS)	
19	5	eP S	Z ZNE	13	05 20	48								
20	5	e	ZNE	23	56	24								
21	6	iP S	ZNE ZNE	10	46 36	15.2								
22	6	iP S	Z ZNE	19	09 42	22								
23	7	(P)	Z	12	42	48								
24	7	P S	ZNE ZNE	15	54 30	36								
25	8	eS eL	Z ZE	04 59	57 44	12						27.0	USCGS: 10.0S, 160.9E. Solomon Islands Felt (II) at Honiara h about 53 km. H = 04 46 46.3 Mag. 5.4 (CGS)	
26	8	iP S SS SSS L	Z ZNE ZE ZN ZE	19 24 28 31 35	16 46 40 16	52.9						58	d USCGS: 6.9S, 129.6E. Banda Sea h about 33 km. H = 19 07 00.4 Mag. 6.3MB 5.9MS (CGS)	



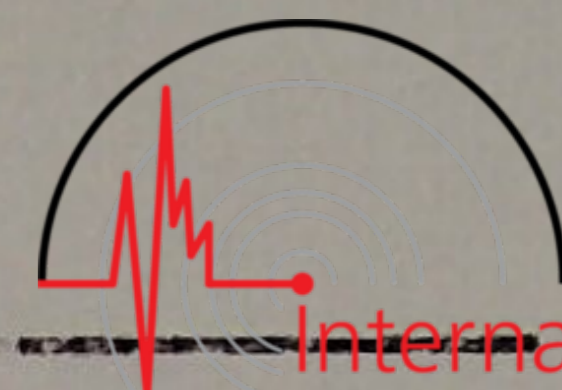
No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
38	11	eP	Z	10	04	40							91	USCGS: 32.3S, 71.8W. Near coast of Central Chile Felt at Mendoza, Argentina h about 36 km. H = 09 51 37.7 Mag. 6.3 (PAS).
		S	ZNE		15	16								
		e	ZNE		16	48								
		SS	ZNE		21	08								
		e	ZNE		28	36								
		L	ZNE		33	08								
39	11	ePKP	Z	20	32	39							146	USCGS: 37.2N, 36.8E. Turkey Felt in Gaziantep area h about 9 km. H = 20 12 54.8 Mag. 5.2MB 5.8MS (CGS)
	12	eP	Z	13	09	33							39.6	USCGS: 6.4S, 148.7E. New Britain region h about 33 km. H = 13 02 02.0 Mag. 5.1MB 5.6MS (CGS)
		S	ZNE		15	44								
		(SSS)	ZNE		18	40								
		L	ZE		21	16								
41	12	S	ZN	16	09	20							66	USCGS: 52.0N, 173.2E. Near Islands, Aleutian Islands. h about 25 km. H = 15 49 11.4 Mag. 5.3 (CGS)
		eL	ZN		19	40								
42	13	eP	Z	04	14	49								
		S	ZNE		15	42								
		T	ZNE		19	30								
43	13	iP	Z	07	04	59								
		S	ZNE		05	19								
44	13	iP	Z	10	28	27.5								
		S	ZNE		30	12								
														u
														USCGS: 20.5S, 178.9W. Fiji Islands region h about 520 km. H = 10 26 08.1 Mag. 4.7 (CGS)
45	13	eP	Z	17	24	05								
		S	ZNE		25	48								
46	14	P	ZNE	06	18	18							34.8	USCGS: 5.5S, 153.9E. New Ireland region Felt (VII) at Rabaul, New Britain. Tsunami heights (crest to trough in meters) 1.54 (Rabaul) 3.07 (Southern end of New Ireland) (Pomir New Britain) .62 (Sonano Buka Passage). One drowned on New Britain. Damage by Tsunami on New Ireland and Bouga- inville. h about 47 km. H = 06 11 29.1 Mag. 7.7(PAS), 7.8(BRK), 7.9MS (CGS)
47	14	eP	Z	07	23	51							35.4	USCGS: 5.8S, 153.2E. New Ireland region h normal H = 07 16 53.6 Mag. 4.9 (CGS)



No	Date	Phase		Time (G.M.T.)									△ (Deg.)	Remarks	
							Az	Tz	An	Tn	Ae	Te			
48	14	eP	ZNE	07	44	12							35.3	USCGS: 4.8S, 153.6E. New Ireland region h normal H = 07 37 15.9 Mag. 5.6MB 6.8MS (CGS)	
49	14	P	ZNE	07	48	01							34.9	USCGS: 5.5S, 153.8E. New Ireland region h normal H = 07 41 09.3 Mag. 5.7MB 7.2MS (CGS)	
50	14	eP	Z	08	49	42							34.9	USCGS: 5.6S, 153.8E. New Ireland region h normal H = 08 42 30.1 Mag. 5.0 (CGS)	
51	14	eP	Z	09	11	06							35.0	USCGS: 5.1S, 153.8E. New Ireland region h normal H = 09 04 10.2 Mag. 5.1 (CGS)	
52	14	P S L	Z N Z	12	37 43 46	02 20 04							34.5	USCGS: 5.7S, 154.1E. Solomon Islands h normal H = 12 30 15.6 Mag. 5.5 (CGS)	
53	14	eP	Z	15	10	43									
54	14	eP	Z	16	44	54							35.6	USCGS: 5.2S, 153.1E. New Ireland region h normal H = 16 37 58.1 Mag. 5.3 (CGS)	
55	14	eP S Lq Lr	Z ZN N Z	17	45 51 54 55	53 12 36 52							35.5	USCGS: 5.2S, 153.3E New Ireland region h normal H = 17 38 49.3 Mag. 5.2MB 6.3MS (CGS)	
56	14	P S (SSS) Lq Lr	Z ZN Z N Z	18	34 40 42 43 44	40 12 56 12 32							35.5	USCGS: 5.2S, 153.3E. New Ireland region h normal H = 18 27 43.7 Mag. 6.2(PAS), 6.7(BRK) 5.6MB 6.5MS (CGS)	
57	14	eP	Z	19	40	11							34.6	USCGS: 5.8S, 154.0E. Solomon Islands h normal H = 19 33 27.7 Mag. 4.9MB 6.3MS (CGS)	
58	14	eP	Z	23	10	14							60	USCGS: 2.6N, 129.3E. Halmahera h about 4.1 km. H = 23 00 05.9 Mag. 5.5 (CGS)	
59	15	eP eS Lq Lr	Z Z NE ZE	14	04 09 12 13	09 32 08 40							35.4	USCGS: 5.1S, 153.4E. New Ireland region h normal H = 13 56 52.9 Mag. 5.0MB 5.3MS (CGS)	



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
72	19	iP	ZNE	16	45	14.8							u
		S	ZNE			36							
73	19	P	ZNE	17	10	14							
		S	ZNE			54							
		T	ZNE		13	40							
74	20	P	ZNE	09	52	32					3.8		USCGS: 17.5S, 172.7W. Tonga Islands region h normal H = 09 51 42.0 Mag. 4.8MB 5.2MS(CGS)
		S	ZNE		53	16							
		L	ZNE		54								
		T	ZNE		56	15							
75	20	P	ZNE	17	37	09					12.0		USCGS: 19.6S, 177.3E. South of Fiji Islands h normal H = 17 34 20.1 Mag. 5.5MB 5.5MS(CGS)
		S	NE		39	24							
76	20	P	Z	21	32	43					34.8		USCGS: 5.6S, 153.9E. New Ireland region h about 53 km. H = 21 25 55.9 Mag. 5.4 (CGS)
		S	Z		38	36							
		L	Z		42	24							
77	20	P	Z	23	23	54					3.8		USCGS: 17.4S, 172.9W. Tonga Islands region h normal H = 23 23 03.3 Mag. 4.9 (CGS)
		S	ZNE		24	37							
		T	ZNE		27	37							
78	21	eP	Z	00	35	13					12.5		USCGS: 25.0S, 177.6W. South of Fiji Islands h about 213 km. H = 00 32 31.0 Mag. 4.6 (CGS)
		S	ZNE		37	16							
79	21	P	Z	12	10	10					34.6		USCGS: 5.9S, 154.0E. Solomon Islands h about 27 km. H = 12 03 27.3 Mag. 5.5MB 5.9MS(CGS)
		S	ZN		15	56							
		L	N		19								
80	22	eP	Z	22	18	16					68		USCGS: 35.5N, 138.8E. Honshu, Japan. Felt (III JMA) in Central Honshu. h about 24 km. H = 22 07 19.3 Mag. 5.4 (CGS)
81	23	iP	ZNE	06	47	37					7.8		d USCGS: 17.6S, 178.9W. Fiji Islands region h about 547 km. H = 06 45 45.1 Mag. 5.2 (CGS)
		S	ZNE		49	08							
82	23	eP	ZNE	13	25	25							
		S	ZNE		26	04							
		T	ZNE		28	55							
83	24	eP	Z	10	19	43					21.0		USCGS: 33.9S, 178.9W. South of Kermadec Is. h normal H = 10 15 07.4
84	24	P	ZNE	12	50	05					4.2		USCGS: 17.9S, 172.5W. Tonga Islands region h normal H = 12 49 11.2 Mag. 5.4 (CGS)
		S	ZNE			48							
		T	ZNE		53	53							



No	Date	Phase		(G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
85	25	eP	ZNE	13	02	52							69	USCGS: 12.4N, 123.7E. Luzon, Philippine Is. Felt on Southern Luzon h normal H = 12 51 42.0 Mag. 6.3(BRK), 5.6MB 6.3MS (CGS)
		S	ZNE		12	00								
		SS	N		16	20								
		SSS	ZN		19	36								
		L	ZNE		23									
86	25	eP	ZNE	14	24	03	2.0	1.0					58	USCGS: 5.9S, 129.8E. Banda Sea h about 151 km. H = 14 14 23.4 Mag. 5.7 (CGS)
87	25	iP	Z	15	52	13							66	d USCGS: 52.2N, 173.1E. Near Islands, Aleutian Islands Felt (I) on Shemya h about 28 km. H = 15 41 21.3 Mag. 6.0(PAS), 5.8MB 6.3MS (CGS)
		S	ZNE	16	01	16								
		Lq	E		09									
		Lr	ZN		12									
88	25	P	ZNE	16	08	08							6.9	USCGS: 16.8S, 178.3W. Fiji Islands region h about 450 km. H = 16 06 26.0 Mag. 5.1 (CGS)
		S	ZNE		09	27								
89	25	eP	Z	22	31	35							35.3	USCGS: 5.2S, 153.5E. New Ireland region h about 35 km. H = 22 24 26.0 Mag. 4.9 (CGS)
		S	Z		37	16								
		SS	ZN		39	28								
		L	ZE		41									
90	26	iP	ZNE	01	30	17							35.7	ue USCGS: 4.9S, 153.2E. New Ireland region Felt (VI) at Rabaul, New Britain. Tsunami height (crest to trough in meters) 6.5 in Rabaul harbour causing flood damage along water front. Damage by Tsuna- mi reported on Southe- rn New Ireland. h about 48 km. H = 01 23 21.3 Mag. 7.5(PAS), 7.9(BRK) 6.3MB 7.9MS (CGS)
91	26	(P)	ZNE	01	36	36								
92	26	(P)	Z	01	45	01								
93	26	(P)	Z	01	57	40								
94	26	(P)	Z	02	06	10								
95	26	iP	ZNE	02	09	46	2.0	1.0						
96	26	eiP	Z	02	26	28	1.5	1.0					36.9	d USCGS: 5.5S, 151.7E. New Britain region h normal H = 02 19 21.4 Mag. 5.8 (CGS)



No	Date	Phase	(G.M.T.)	Az	Tz	An	Tn	Ae	Te	(Deg.)	Remarks
97	26	iP	Z	02	32	00.7				36.6	u USCGS: 5.2S, 152.2E. New Britain region h normal H = 02 24 57.0 Mag. 6.4 (CGS)
98	26	e(P)	Z	02	36	40				36.6	USCGS: 5.7S, 151.9E. New Britain region h normal H = 02 29 38.2 Mag. 6.2 (CGS)
99	26	P	Z	03	17	12					
100	26	eP	Z	03	33	35				36.8	USCGS: 5.8S, 151.7E. New Britain region h normal H = 03 26 27.7 Mag. 5.3 (CGS)
101	26	eP	Z	04	26	07					
102	26	iP iS	Z NE	06	30 32	57 34					u
103	26	eP S	Z ZNE	06	34 36	52 30					
104	26	eP S L	Z ZNE N	07	06 12 15	31 20				36.6	USCGS: 5.5S, 152.1E. New Britain region h normal H = 06 59 28.3 Mag. 5.7MB 5.9MS (CGS)
105	26	eP	Z	08	10	43				57	USCGS: 5.9S, 130.3E. Banda Sea h about 119 km. H = 08 01 05.0 Mag. 5.4 (CGS)
106	26	eP	Z	09	42	09				36.9	USCGS: 5.7S, 151.6E. New Britain region h normal H = 09 34 51.5 Mag. 5.3MB 5.8MS (CGS)
107	26	P	ZNE	09	44	22				36.8	USCGS: 5.6S, 151.6E. New Britain region h normal H = 09 37 12.2 Mag. 5.4MB 5.5MS (CGS)
108	26	P S Lq Lr	Z ZNE NE Z	15	42 48 51 53	48 35 20				37.1	USCGS: 5.6S, 151.4E. New Britain region h normal H = 15 35 37.8 Mag. 5.4MB 6.2MS (CGS)
109	26	eP S SS L	Z ZNE NE Z	16 17	52 57 00 02	12 56 48 12				37.0	USCGS: 6.0S, 151.5E. New Britain region h normal H = 16 45 00 Mag. 5.5MB 5.4MS (CGS)
110	26	P S Lq Lr	Z ZNE NE ZN	17 18	57 02 05 07	00 32 12 12				35.7	USCGS: 5.2S, 153.1E. New Ireland region h normal H = 17 49 59.7 Mag. 5.3MB 5.4MS (CGS)



No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	Δ (Deg.)	Remarks
111	26	P (PoP) S Lq Lr	ZE ZNE ZNE NE Z	19 22 24 28 31 33	22 41	41 03 28 28 14						37.2	USCGS: 5.9S, 151.3E. New Britain region h normal H = 19 15 31.4 Mag. 6.4 (BRK), 5.6 MB 6.1MS (CGS)
112	27	P	ZNE	05	41	07						36.9	USCGS: 6.0S, 151.6E. New Britain region h normal H = 05 33 58.7 Mag. 5.0 (CGS)
113	27	P S	Z Z	07	42 48	47 40						36.9	USCGS: 5.9S, 151.6E. New Britain region h about 40 km. H = 07 35 41.1 Mag. 5.4MB 5.4MS (CGS)
114	27	S L	Z Z	14	15 19	20 28						35.9	USCGS: 5.1S, 152.9E. New Britain region h about 53 km. H = 14 02 25.3 Mag. 4.6 (CGS)
115	27	eS eL	Z Z	18	21 28	43						37.2	USCGS: 5.6S, 151.4E. New Britain region h about 46 km. H = 18 08 41.2 Mag. 5.4MB 5.3MS (CGS)
116	27	P	ZNE	20	54	57						35.8	USCGS: 5.2S, 153.0E. New Ireland region h about 43 km. H = 20 47 56.5 Mag. 6.3(PAS), 5.5MB 6.5MS (CGS)
117	28	eiP S	Z ZE	05	45 47	36 10						8.7	USCGS: 20.3S, 177.9W. Fiji Islands region h about 550 km. H = 05 43 35.0 Mag. 4.7 (CGS)
118	28	P S L	Z ZNE ZNE	07 08	56 02 04	08 00 48						36.7	USCGS: 5.8S, 151.7E. New Britain region h normal H = 07 48 58.2 Mag. 5.2MB 5.2MS (CGS)
119	28	P	ZE	10	24	30						36.1	USCGS: 5.6S, 152.5E. New Britain region h normal H = 10 17 29.4 Mag. 5.7 (CGS)
120	28	P	Z	13	21	33						35.7	USCGS: 5.3S, 153.0E. New Ireland region h about 52 km. H = 13 14 20.2 Mag. 4.8 (CGS)
121	29	P	Z	09	05	01						35.3	USCGS: 5.5S, 152.4E. New Ireland region h normal H = 08 57 48.3 Mag. 5.2 (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
122	29	e(P) S	Z ZNE	15 30 31	43 53									
123	29	iP S	ZNE ZNE	20	05 04 23								u Samoa Islands region	
124	29	S eL	ZN ZN	22	38 02 48 32						66		USCGS: 52.1N, 173.4E. Near Islands, Aleutian Islands. h about 42 km. H = 22 18 20.1 Mag. 5.6MB 5.6MS(CGS)	
125	30	iP S	ZNE ZNE	05	00 48 01 20								d	
126	30	P S (SSS) Lr	Z ZNE ZNE ZE	06	25 08 30 40 33 32 35						36.0		USCGS: 4.5S, 152.9E. New Britain region h about 42 km. H = 06 18 12.0 Mag. 5.5(BRK), 5.7MB 5.6MS (CGS)	
127	30	P S L	Z ZNE ZNE	13	31 19 36 48 39 48						37.0		USCGS: 6.0S, 151.5E. New Britain region h normal H = 13 23 58.3 Mag. 5.7(BRK), 5.3MB 5.5MS (CGS)	
128	31	P (s)	ZNE ZNE	08 09	58 50 34									

" P.D. Müller
OBSERVER-IN-CHARGE

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 APIA OBSERVATORY



FINAL SEISMOLOGICAL BULLETIN
 STANDARD SEISMIC STATION (AFI)
AFIAMALU, WESTERN SAMOA

August 1971

No	Date	Phase		Time (G.M.T.)			Az Tz An Th Ae Te						△ (Deg.)	Remarks
1	1	eP eL	Z ZN	02 17 37	15 40							70	USCGS: 50.4N, 156.8E. Kuril Islands h about 20 km. H = 02 06 06.6 Mag. 5.6 (CGS)	
2	2	P S	ZNE ZNE	00 17 23	57									
3	2	P L	Z ZNE	00 26 35	57 20							36.0	USCGS: 5.6S, 152.6E. New Britain region h about 36 km. H = 00 19 54.2 Mag. 5.6(BRK), 5.6MB 5.8MS (CGS)	
4	2	iP PcP S SS SSS L T	ZNE Z ZNE ZNE ZNE ZN ZNE	07 35 36 45 49 52 55 51	57 19 00 02 40 56							69	d USCGS: 41.4N, 143.5E. Hokkaido, Japan region Felt (V JMA) on Hokkaido and (IV) in Northern Honshu Max Tsunami .4 meters (peak to trough) at Hiroo h about 51 km. H = 07 24 56.8 Mag. 7.0(PAS), 7.3(BRK), 6.6(CGS)	
5	2	(P) (S)	Z ZNE	14 12 14	49 36									
6	2	P	ZNE	21 54 27								6.7	USCGS: 15.2S, 178.6W. Fiji Islands region h about 320 km. H = 21 52 36.4 Mag. 4.8 (CGS)	
7	3	e(Lq) eLr	ZNE ZE	17 07 09	04 32							40.1	USCGS: 3.5S, 148.9E. Bismarck Sea h about 9 km. H = 16 50 12.0 Mag. 4.7 (CGS)	
8	4	(P)	Z	00 43 06										
9	4	S Lq eL	ZN E Z	19 24 29 31	00 20 40							53	USCGS: 62.7S, 157.0E. Balleny Islands region h normal H = 19 06 52.9 Mag. 4.8 (CGS)	

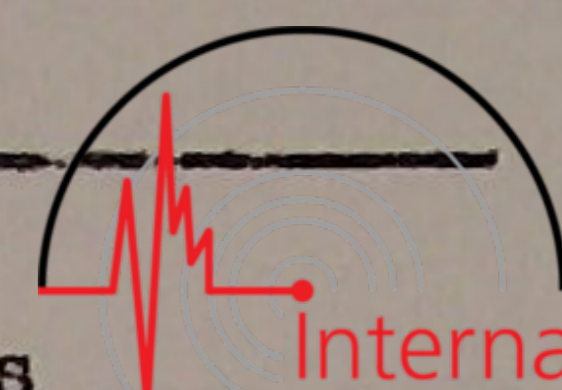


No	Date	Phase		Time (G.M.T.)									△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
10	5	PKP	ZNE	02	18	38						148	USCGS: 0.9S, 22.1W. Central Mid-Atlantic Ridge h normal H = 01 58 51.7 Mag. 7.0 (PAS), 6.3MB 7.0MS (CGS)	
		SKSP	ZNE		32	20								
		SKKS	ZNE		34	52								
		SS	ZNE		41	12								
		SSS	ZNE		46	32								
		L	ZNE		59	56								
		L	ZE	03	07	24								
11	5	iP	Z	06	27	14							d	
		S	ZNE		28	10								
12	5	eP	Z	22	39	15						18.6	USCGS: 31.5S, 177.7W. Kermadec Islands region h normal H = 22 36 00.0 Mag. 4.5 (CGS)	
13	6	P	Z	09	28	32								
		S	ZNE		29	29								
14	6	iP	ZNE	22	54	16						8.7	u USCGS: 20.2S, 177.9W. Fiji Islands region h about 530 km. H = 22 52 15.3 Mag. 5.3 (CGS)	
		S	ZNE		55	50								
15	7	iP	ZNE	05	52	24						2.2	u USCGS: 15.7S, 172.9W. Samoa Islands region h about 38 km. H = 05 51 50.5 Mag. 3.8 (CGS)	
		S	ZNE			47								
16	7	eiP	ZNE	06	57	53	3.5	1.2				20.4	USCGS: 13.9S, 167.2E. New Hebrides Islands Felt at Port Vila h about 178 km. H = 06 53 27.0 Mag. 5.4 (CGS)	
		pP	ZE		58	36								
		S	ZNE	07	01	37								
		sS	ZNE		02	24								
17	7	iP	ZNE	08	55	58.6							d	
		S	ZNE		56	44								
18	8	iP	Z	16	46	58	1.1	1.1				59	u USCGS: 7.1S, 129.1E. Banda Sea h about 164 km. H = 16 37 16.3 Mag. 5.6 (CGS)	
19	9	iP	ZNE	12	18	44						34.4	u USCGS: 5.9S, 154.3E. Solomon Islands h about 63 km. H = 12 12 01.7 Mag. 6.5 (PAS), 6.4(BR (BRK), 6.0(CGS)	
		PPP	Z		20	25								
		S	ZNE		24	06								
		SSS	ZNE		26	28								
		L	ZE		28	20								
20	9	iP	Z	16	37	30								
		S	ZNE		38	59								
21	9	iP	ZE	20	08	44						36.4	d USCGS: 5.8S, 152.2E. New Britain region h about 24 km. H = 20 01 38.2 Mag. 6.1(PAS), 6.2(BRK), 5.9MB 6.2MS (CGS)	
		PP	ZE		10	00								
		S	ZNE		14	24								
		SSS	N		17	03								
		Lq	N			32								
		Lr	ZE		18	51								



No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks	
34	13	P (PPP) S (SSS)	ZNE ZE ZNE ZNE	16 55 33 17 01 08 03 28								34.5	USCGS: 6.1S, 154.1E. Solomon Islands h about 21 km. H = 16 48 46.5 Mag. 6.2 (PAS), 6.3 (BRK), 6.0MB 6.2MS (CGS)	
35	13	iP S	ZNE ZNE	19 18 25 19 55										u
36	14	P S	ZNE ZNE	00 19 48 23 28	9.0	1.2						20.4	USCGS: 14.9S, 167.2E. New Hebrides Islands h about 120 km. H = 00 15 17.8 Mag. 5.6(BRK), 5.5(CGS)	
37	14	(P)	Z	00 27 21	1.8	0.9								
38	14	P S	ZNE ZNE	07 36 48 37 22										
39	14	P S	ZNE ZNE	09 03 05 04 12								6.5	USCGS: 15.2S, 178.4W. Fiji Islands region h normal H = 09 02 52.6 Mag. 6.8(BRK), 5.6MB 6.6MS (CGS)	
40	14	P S	ZNE ZNE	11 25 02 26 12								6.8	USCGS: 15.7S, 178.5W. Fiji Islands region h normal H = 11 23 28.6 Mag. 5.2 (CGS)	
41	14	P	ZNE	11 38 47								6.8	USCGS: 15.7S, 178.5W. Fiji Islands region h normal H = 11 37 11.4 Mag. 4.8 (CGS)	
42	15	P S	ZNE ZNE	08 50 49 51 36										
43	15	(P) eS	ZNE ZNE	10 01 10 02 14										
44	15	e(P) eS	Z ZNE	12 08 09 09 08										
45	15	P S	ZNE ZNE	14 54 12 55 16								5.2	USCGS: 15.0S, 177.0W. Fiji Islands region h normal H = 14 52 59.7 Mag. 5.1MB 4.9MS (CGS)	
46	15	iP S	ZNE ZNE	15 01 17 37										u Samoa Islands region
47	15	P S	Z ZNE	22 52 29 53 28										
48	16	P eS	Z ZNE	08 03 19 04 24								5.4	USCGS: 14.7S, 177.3W. Fiji Islands region h normal H = 08 02 06.2 Mag. 4.7 (CGS)	
49	17	iP S	ZNE ZNE	23 47 12 32								2.4	u USCGS: 15.5S, 173.4W. Tonga Islands h about 70 km. H = 23 46 41.4 Mag. 5.5 (CGS)	

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
50	18	P (Lq) Lr	Z E ZE	10 47 55 57	10							34.0	USCGS: 6.1S, 154.5E. Solomon Islands h about 54 km. H = 10 40 30.7 Mag. 5.2 (CGS)	
51	18	(P) S	ZNE ZNE	12 54 55	07 00									
52	18	P (S)	Z ZNE	14 10 11	51 44									
53	19	iP eS eL	Z ZNE ZNE	08 40 51 09 03	36 00 20							75	u USCGS: 23.9N, 121.9E. Taiwan Felt (I JMA) at Yona- gunijima h about 23 km. H = 08 28 53.1 Mag. 5.4MB 5.6MS (CGS)	
54	19	P pP sS	ZE ZE ZNE	11 51 52 56	46 08 12							21.7	USCGS: 11.1S, 166.2E. Santa Cruz Islands h about 75 km. H = 11 46 57.9 Mag. 5.1 (CGS)	
55	19	P eL	Z ZE	13 15 25	15							35.5	USCGS: 5.4S, 153.3E. New Ireland region h about 56 km. H = 13 08 23.9 Mag. 4.7 (CGS)	
56	19	eP S SS SSS Lr	Z ZNE ZNE ZNE ZN	22 26 35 40 43 47	48 48 00 24							68	USCGS: 49.3N, 155.4E. Kurile Islands h normal H = 22 15 37.7 Mag. 6.0(PAS), 5.8(BRK), 6.0MB 6.1MS (CGS)	
57	20	P S	ZNE ZNE	00 18 19	43 00									
58	20	P S T	ZNE ZNE ZNE	01 58 59 02 04	09 20 36							7.2	USCGS: 20.6S, 174.1W. Tonga Islands h about 52 km. H = 01 56 35.5 Mag. 5.2 (CGS)	
59	20	eP S	Z ZNE	04 33 34	53 38									
60	20	P S SS SSS Lq Lr	Z ZE ZE Z NE ZE	21 48 59 22 04 07 10 13	34 44 24 52 49 38							84	USCGS: 13.4N, 92.4W. Off coast of Chiapas, Mexico Felt at San Salvador, El Salvador h normal H = 21 36 09.6 Mag. 5.8MB 5.6MS (CGS)	
61	21	P S L	ZE N ZE	16 12 15	00 00 48							15.2	USCGS: 19.7S, 173.6E. New Hebrides Islands region h normal H = 16 08 27.7 Mag. 5.1 (CGS)	
62	21	P S T	ZNE ZNE ZNE	22 17 18 24	53 59 16							6.8	USCGS: 20.3S, 174.1W. Tonga Islands h normal H = 22 16 23.0 Mag. 4.7 (CGS)	



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						Δ (Deg.)	Remarks
63	22	iP S	Z ZNE	09 20	19 37	05.6	4.3	1.0				7.8	d USCGS: 17.6S, 178.9W. Fiji Islands region h about 563 km. H = 09 17 14.5 Mag. 4.5 (CGS)	
64	22	P S	ZNE ZNE	21	58	24 43								Samoa Islands region
65	23	P S SSS Lq Lr	ZNE ZNE ZN E ZE	04	15 22 25 26 28	58 23 48 20 20						42.6	USCGS: 4.0S, 146.1E. East New Guinea region Felt (IV) at Tabele h normal H = 04 08 02.0 Mag. 6.3(PAS), 5.2MB 6.3MS (CGS)	
66	23	P S	Z ZNE	15	42 44	57 42						9.6	USCGS: 20.8S, 178.6W. Fiji Islands region h about 615 km. H = 15 40 45.3 Mag. 4.8 (CGS)	
67	23	eP S SS SSS Lq Lr	Z ZNE Z ZE NE ZN	22	06 15 19 23 24 26	20 16 20 00 20 24						68	USCGS: 45.6N, 151.0E. Kuril Islands h about 34 km. H = 21 55 17.7 Mag. 5.7MB 5.6MS(CGS)	
68	24	P S	ZNE ZNE	01	29 31	19 02						10.5	USCGS: 22.4S, 178.1W. South of Fiji Islands h about 354 km. H = 01 27 03.4 Mag. 4.5 (CGS)	
69	24	iP S	Z ZNE	12	43 44	42.4 35								d
70	24	eP S (SSS) Lr	Z Z ZN ZE	13	36 41 44 46	05 48 16						35.7	USCGS: 5.5S, 152.9E. New Britain region h about 36 km. H = 13 29 12.8 Mag. 5.2MB 5.2MS(CGS)	
71	24	P S	ZNE ZNE	15	39 41	47 43						11.5	USCGS: 24.2S, 177.2W. South of Fiji Islands h about 180 km. H = 15 37 16.7 Mag. 5.1 (CGS)	
72	25	P S	Z ZNE	14	19 22	41 01						13.7	USCGS: 25.4S, 179.6W. South of Fiji Islands h about 429 km. H = 14 16 49.2 Mag. 4.4 (CGS)	
73	25	(P)	ZNE	18	47	33								
74	25	P S	Z NE	20	10 12	44 59						13.8	USCGS: 26.9S, 176.4W. South of Fiji Islands h about 61 km. H = 20 07 45.6 Mag. 4.3 (CGS)	

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
75	26	iP S	ZNE ZNE	09 33 34	32.9 16							3.5	d USCGS: 15.0S, 175.2W. Tonga Islands h about 275 km. H = 09 32 32.5 Mag. 5.2 (CGS)
76	26	P S Lq Lr	ZNE ZNE N ZE	17 38 42 43	17 00 52 28							19.6	USCGS: 20.1S, 168.7E. Loyalty Islands Felt (IV) at Isangel h about 16 km. H = 17 33 45.7 Mag. 5.0MB 5.3MS (CGS)
77	27	P S	Z ZNE	03 46 50	48 02							19.0	USCGS: 31.3S, 179.7W. Kermadec Islands region h about 566 km. H = 03 43 29.8 Mag. 5.0 (CGS)
78	27	eP S	Z ZNE	09 29 32	18 21							17.8	USCGS: 31.0S, 176.9W. Kermadec Islands region h about 37 km. H = 09 25 14.4 Mag. 4.6 (CGS)
79	28	P S	ZNE ZNE	03 07 09	38 26	2.0	0.7					9.8	USCGS: 21.1S, 178.7W. Fiji Islands region h about 521 km. H = 03 05 30.3 Mag. 5.0 (CGS)
80	28	eP S T	Z ZNE ZNE	03 53 54 57	45 31 40								
81	28	P S	ZNE ZNE	04 10 11	23 19							5.8	USCGS: 18.8S, 174.7W. Tonga Islands h about 153 km. H = 04 09 07.4 Mag. 5.4 (CGS)
82	29	eS eL	ZE ZE	03 54 04	28 40							64	USCGS: 6.3N, 127.4E. Philippine Islands region h about 58 km. H = 03 35 15.1 Mag. 5.4 (CGS)
83	29	P S	ZNE ZNE	09 10 11	22 23								
84	30	P S	Z ZNE	06 39	02 50								
85	30	eP	Z	21	17 23							20.3	USCGS: 14.8S, 167.3E. New Hebrides Islands h about 120 km. H = 21 12 52.4 Mag. 5.0 (CGS)
86	30	eS o(SSS) eL	NE NE Z	22 23 09	52 32							68	USCGS: 36.4S, 98.4W. Southern Pacific Ocean h normal H = 22 37 40.0 Mag. 5.3MB 5.3MS (CGS)
87	31	eP S	Z ZNE	01 05 07	57 00								





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8.

No	Date	Phase		Time (G.M.T.)									△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
88	31	eP	Z	14	47	34								
		S	ZNE		48	20								
		T	ZNE		51	25								
89	31	P	Z	21	15	00						7.4	USCGS: 20.8S, 173.8W. Tonga Islands h normal H = 21 13 22.6 Mag. 5.0 (CGS)	
		S	ZNE		16	14								
		L	ZNE		17	12								
		T	ZNE		21	43								

P.D. Muller
OBSERVER-IN-CHARGE

NEW ZEALAND
 Department of Scientific and Industrial Research
 Geophysics Division
 APIA OBSERVATORY

File



FINAL SEISMOLOGICAL BULLETIN
STANDARD SEISMIC STATION (AFI)
AFIAMALU, WESTERN SAMOA

September 1971

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					Δ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
1	1	P	Z	12	37	31						36.8	USCGS: 5.5S, 151.7E. New Britain region Felt (IV) at Rabaul h about 64 km. H = 12 30 11.2 Mag. 5.2 (CGS)
		PcP	Z		39	48							
		S	ZNE		43	08							
		(SSS)	ZNE		45	52							
		Lr	ZE		48								
2	1	P	Z	14	04	26						20.4	USCGS: 14.6S, 167.2E. New Hébrides Islands h about 130 km. H = 13 59 52.1 Mag. 4.6 (CGS)
3	1	P	Z	17	14	55						14.4	USCGS: 26.0S, 179.9W. South of Fiji Islands h about 489 km. H = 17 11 52.8
		S	ZNE		17	28							
4	1	P	ZNE	18	54	59							
		S	ZNE		55	21							
5	1	P	Z	20	24	34						35.7	USCGS: 5.5S, 152.9E. New Britain region Felt (IV) at Rabaul h about 34 km. H = 20 17 37.4 Mag. 5.2 (CGS)
		PP	ZE		26	16							
		S	ZNE		30	08							
		(SSS)	ZN		32	52							
		Lr	ZE		34	12							
6	1	eS	Z	22	59	12						35.8	USCGS: 5.6S, 152.8E. New Britain region h about 19 km. H = 22 46 37.3 Mag. 4.8 (CGS)
		e(SSS)	ZE		23	02 05							
		Lr	ZE			04							
7	1	iP	ZNE	23	33	12.5						3.7	u USCGS: 15.5S, 175.1W. Tonga Islands h about 300 km. H = 23 32 10.6 Mag. 4.9 (CGS)
		S	ZNE			59							
8	2	iP	ZNE	05	23	06.9							u
		S	ZNE			27							
9	2	P	Z	06	37	57						21.7	USCGS: 11.1S, 166.3E. Santa Cruz Islands h about 175 km. H = 06 33 20.7 Mag. 5.4 (CGS)
10	2	e(P)	Z	16	18	36							
		S	ZNE		20	18							
11	2	P	ZNE	23	50	20						11.1	USCGS: 24.4S, 175.2W. South of Tonga Islands h normal H = 23 47 52.2 Mag. 5.7MB 5.4MS (CGS)
		S	ZNE		52	16							
		L	ZN		53	20							
		T	ZNE	00	01								



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
24	6	P S	Z ZNE	20 07	06 45	09						9.9	USCGS: 21.1S, 177.8W. Fiji Islands region h about 358 km. H = 20 04 02.2 Mag. 4.7 (CGS)	
25	6	P	Z	21	33	08						11.1	USCGS: 24.4S, 175.2W. South of Tonga Islands h normal H = 21 30 30.0 Mag. 4.7 (CGS)	
26	6	P	Z	23	43	13						41.6	USCGS: 5.8S, 146.7E. East New Guinea region h about 116 km. H = 23 35 32.1 Mag. 5.2 (CGS)	
27	7	P S	ZNE ZNE	00	10	13 38								
28	7	P	Z	06	31	18						11.0	USCGS: 24.3S, 175.3W. South of Tonga Islands h normal H = 06 28 47.3 Mag. 4.5 (CGS)	
29	7	P S	Z NE	06	37 39	10 06						11.2	USCGS: 24.4S, 175.4W. South of Tonga Islands h about 61 km. H = 06 34 42.1 Mag. 4.3 (CGS)	
30	7	P S	Z NE	14	49 51	55 23						8.2	USCGS: 19.3S, 178.1W. Fiji Islands region h about 523 km. H = 14 48 03.8 Mag. 4.5 (CGS)	
31	8	eP eS eSS eSSS eLq eLr	Z ZN ZN ZN N Z	12	00 09 14 18 19 22	00 28 20 00 24 12						74	USCGS: 46.4N, 141.1E. Sakhalin Island Felt (II JMA) in Northern Hokkaido h about 6 km. H = 11 48 23.4 Mag. 5.9MB 6.6MS (CGS)	
32	8	eP S	Z ZNE	17	08 10	31 07								
33	8	eS eSSS	N N	17	21 29	00 00						74	USCGS: 46.3N, 140.9E. Near East Coast of Eastern Russia. Felt (III JMA) in Northern Hokkaido. h about 16 km. H = 16 59 52.6 Mag. 5.7(BRK, 5.9MB 6.2MS (CGS)	
34	9	iP S	ZNE ZNE	04	06	19.7 40							d	
35	9	P S	ZNE ZNE	05	41 42	50 10								
36	9	eP S	Z ZNE	15	04 05	36 27								
37	9	eP S	ZNE ZNE	15	07 08	37 29								



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
38	9	iP	Z	23	12	04.1						67	u USCGS: 44.4N, 150.9E. Kuril Islands region Felt (I JMA) on Hokkaido, Japan. h about 7 km. H = 23 01 06.8 Mag. 6.0MB 5.9MS (CGS)
		S	ZNE		21	00							
		eSS	ZNE		25	12							
		eLq	NE		29								
		eLr	Z		31	40							
39	10	(P)	ZNE	00	00	05							
40	10	P	ZNE	06	30	27						7.0	USCGS: 20.4S, 174.2W. Tonga Islands h normal H = 06 28 51.1 Mag. 5.7(BRK), 5.8MB 5.8MS (CGS)
		S	ZNE		31	38							
		L	ZNE		32								
		T	ZNE		37	20							
41	10	P	Z	07	04	28						4.8	USCGS: 18.1S, 174.0W. Tonga Islands h normal H = 07 03 22.7 Mag. 4.3 (CGS)
		S	ZNE		05	20							
42	10	iP	ZNE	10	12	13							d
		S	ZNE		13	00							
43	10	P	ZNE	13	54	47						8.6	USCGS: 18.1S, 179.6W. Fiji Islands region h about 671 km. H = 13 52 41.8 Mag. 5.2 (CGS)
		S	ZNE		56	30							
44	11	P	ZNE	14	54	55							
		S	ZNE		55	21							
45	11	P	Z	17	17	30							
		S	NE		18	01							
		T	ZNE		20	12							
46	11	P	ZNE	19	23	50							
		S	ZNE		24	12							
47	12	P	ZNE	08	09	54						13.8	USCGS: 26.7S, 177.1W. South of Fiji Islands h about 101 km. H = 08 06 54.1 Mag. 5.3(BRK), 5.8(CGS)
		S	ZNE		12	12							
		L	ZNE		13	24							
		T	ZNE		23								
48	12	P	ZNE	16	44	53						14.0	USCGS: 26.6S, 177.7W. South of Fiji Islands h about 130 km. H = 16 41 50.2 Mag. 4.8 (CGS)
		S	ZNE		47	12							
49	13	P	ZNE	01	19	36							
		S	ZNE		20	12							
50	14	P	ZNE	03	10	05	2.7	1.0				32.3	USCGS: 7.4S, 156.0E. Solomon Islands h about 46 km. H = 03 03 39.2 Mag. 5.7MB 5.9MS (CGS)
		eS	ZNE		15	20							
		e(Lq)	NE		17	16							
		eLr	ZE		18	24							
51	14	iP	Z	05	27	36						36.9	d USCGS: 6.5S, 151.5E. New Britain region Felt (IV) at Rabaul h normal H = 05 20 29.3 Mag. 7.1(BRK), 6.1MB 6.3MS (CGS)
		S	ZNE		33	18							
		SS	N		35	52							
		Lr	ZE		37	40							



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
64	18	P S	ZNE ZNE	03 43 13 38								2.6	USCGS: 16.1S, 173.1W. Tonga Islands h normal H = 03 42 38.8 Mag. 4.7 (CGS)	
65	18	P S	ZNE ZNE	16 03 05 27										
66	19	P S	ZNE ZNE	10 02 31 04 16								9.8	USCGS: 21.3S, 178.5W. Fiji Islands region h about 545 km. H = 10 00 19.3 Mag. 6.0 (BRK), 5.4 (CGS)	
67	20	iP S	ZNE ZNE	10 21 23 51										u
68	21	P S	Z ZNE	05 06 19 07 35								13.8	USCGS: 26.6S, 177.5W. South of Fiji Islands h about 77 km. H = 05 03 20.5 Mag. 5.0 (CGS)	
69	21	P S	ZNE NE	12 18 05 19 16										
70	22	eP eS eL	ZE ZNE ZE	07 29 31 33 28 35										
71	22	eS eSS eLq eLr	ZNE ZNE NE ZE	14 36 56 42 12 48 40 51 40								80	USCGS: 15.1N, 93.7W. Near coast of Chiapas, Mexico. h normal H = 14 14 20.5 Mag. 5.9 (BRK), 5.2MB 5.6MS (CGS)	
72	23	iP S	ZNE ZNE	00 09 49 10 14										d
73	23	iP S	ZNE ZNE	09 54 41 55 00										u
74	23	P S	ZNE ZNE	22 52 17 54 02										
75	24	P S	ZNE ZNE	00 05 52 07 25								8.2	USCGS: 19.6S, 177.7W. Fiji Islands region h about 598 km. H = 00 04 00.1 Mag. 4.1 (CGS)	
76	24	S SS SSS Lq Lr	ZNE Z ZNE E ZN	01 30 00 34 08 37 48 39 40 41								68	USCGS: 39.4N, 143.2E. Off east coast of Honshu, Japan. Felt (I JMA) in Miyako area and (II) at Marioka. h about 22 km. H = 01 10 00.4 Mag. 5.6MB 5.7MS (CGS)	
77	24	eS e eSS Lr	E ZE ZE ZNE	04 57 00 58 44 05 03 52 16								94	USCGS: 16.4S, 73.7W. Near coast of Peru Felt (IV) at Arequipa h about 28 km. H = 04 32 55.0 Mag. 5.2MB 5.6MS (CGS)	



No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	△ (Deg.)	Remarks
78	24	eP S	ZNE ZNE	19 24	22 14	21						10.9	USCGS: 22.7S, 178.4W. South of Fiji Islands h about 426 km. H = 19 20 09.5 Mag. 5.0 (CGS)
79	25	P S	ZNE ZNE	02 54	52 24	52						7.8	USCGS: 17.9S, 178.8W. Fiji Islands region h about 616 km. H = 02 51 01.3 Mag. 4.6 (CGS)
80	25	eP S	ZN NE	03 29	26 13	29						16.6	USCGS: 29.6S, 177.1W. Kermadec Islands h about 43 km. H = 03 22 43.6 Mag. 5.1 (CGS)
81	25	P S	ZNE ZNE	04 35	34 18	25							
82	25	iP pP S SS Lr	ZE ZE ZNE ZNE ZE	04 43 44 50 53 56	43 19 00 20	52	3.0	1.0				41.6	d USCGS: 6.5S, 146.6E. East New Guinea region Felt (VII) in the Popondetta area. h about 115 km. H = 04 36 14.0 Mag. 5.9(BRK), 6.3(CGS)
83	25	iP S	Z ZNE	14 48	46 23	50						7.3	d USCGS: 18.1S, 177.9W. Fiji Islands region h about 646 km. H = 14 44 59.1 Mag. 5.0 (CGS)
84	25	eS eLr	ZNE ZNE	20 21	56 03	52 32						46	USCGS: 54.7S, 159.0E. Macquarie Islands region. h about 29 km. H = 20 41 20.3
85	25	iP S	ZNE ZNE	21	30 34	15.2							d
86	25	eP S	ZNE ZNE	22 20	19 57	39						7.5	USCGS: 19.5S, 176.8W. Fiji Islands region h about 373 km. H = 22 18 05.2 Mag. 5.0 (CGS)
87	26	P S eL T	ZNE ZNE ZNE ZNE	01 37 38 48	35 38 28	24						13.4	USCGS: 26.1S, 177.3W. South of Fiji Islands h about 93 km. H = 01 32 27.9 Mag. 5.3 (CGS)
88	26	iP S	Z ZNE	05 13	11 26	48						8.9	u USCGS: 20.0S, 178.5W. Fiji Islands region h about 623 km. H = 05 09 48.0 Mag. 4.2 (CGS)
89	26	P (S)	Z ZNE	06 40	39 33	01							



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
90	26	iP S	ZNE ZNE	09 26 09 30								1.9	d USCGS: 15.1S, 173.1W. Tonga Islands h normal H = 09 25 42.9 Mag. 4.6 (CGS)	
91	26	eP eS eSS eSSS eLr	Z ZNE ZE NE ZE	16 43 40 52 12 57 00 59 44 17 04 12								65	USCGS: 0.1S, 124.9E. Molucca Sea h about 71 km. H = 16 33 04.7 Mag. 5.8 (CGS)	
92	26	P S	Z ZNE	23 41 01 42 30										
93	27	iPKP	Z	06 18 40								115	d USCGS: 73.4N, 55.1E. Novaya Zemlya h = 0 km. H = 05 59 55.2 Mag. 6.7(PAS), 6.7(BRK), 6.4MB 5.2MS (CGS)	
94	27	(P)	ZNE	06 29 18										
95	27	P S T	ZNE ZNE ZNE	10 00 50 02 57 14								12.5	USCGS: 25.2S, 177.2W. South of Fiji Islands h about 124 km. H = 09 58 05.3 Mag. 4.7 (CGS)	
96	27	P S	ZNE ZNE	12 14 58 18 11								19.1	USCGS: 32.0S, 178.0W. South of Kermadec Is. h normal H = 12 10 39.3 Mag. 4.7 (CGS)	
197	27	P	Z	15 04 01								42.9	USCGS: 5.7S, 145.4E. East New Guinea region h about 103 km. H = 14 56 10.9 Mag. 5.4 (CGS)	
98	27	eP eS eSS eSSS L	Z ZNE ZN NE ZN	19 13 16 23 00 27 40 31 32 35								74	USCGS: 46.4N, 141.1E. Sakhalin Island. Felt at Wakkanai, Hokkaido, Japan. h about 21 km. H = 19 01 45.3 Mag. 6.6(PAS), 5.7(BRK), 5.9MB 6.0MS (CGS)	
99	27	P ePP eS eSS L	Z Z NE NE ZE	22 27 44 29 06 33 52 37 04 39								40.9	USCGS: 3.2S, 148.1E. Bismarck Sea h normal H = 22 20 03.2 Mag 5.5MB 6.1MS(CGS)	
100	28	P eS eLq eLr	Z ZNE NE ZE	19 51 28 56 32 58 36 20 00 20								30.6	USCGS: 9.0S, 157.4E. Solomon Islands h normal H = 19 45 15.8 Mag. 5.5MB 5.1MS(CGS)	
101	29	eP eS eSS	Z NE NE	13 58 35 14 05 24 08 40								47.0	USCGS: 2.9S, 142.0E. Near North Coast of New Guinea. h about 16 km. H = 13 50 02.5 Mag. 5.5MB 5.3MS (CGS)	

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
102	29	iP	ZNE	14	08	45								u
		S	ZNE		09	06								
103	30	eP	Z	08	29	27						71	USCGS: 26.8N, 110.8W, Gulf of California Appears to be complex multiple event. Arrival time used pertain to first event. Second lar- ger event occurred about 6.5 sec. after first. Magnitude result for MB is probably due to a mixture of data from both events. h about 33 km. H = 08 17 54.6 Mag. 6.6(PAS), 5.6MB 6.6MS (CGS)	
		eS	NE		38	44								
		eSS	E		43	14								
		eSSS	NE		47	04								
		L	NE		50	36								
104	30	eP	Z	19	47	11								
		S	ZNE		48	27								
		eT	ZNE		54	13								
105	30	P	ZNE	21	21	58						11.8	USCGS: 22.4S, 179.6E. South of Fiji Islands h about 585 km. H = 21 19 25.6 Mag. 4.9 (CGS)	
		S	ZNE		24	01								
106	30	eP	Z	21	44	11	0.5	2.1				83	USCGS: 61.6N, 140.3E. Eastern Siberia h normal H = 21 31 25.9 Mag. 5.4MB 5.4MS (CGS)	
		e(PcP)	Z			53								

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OBSERVER-IN-CHARGE