

PERTH, WESTERN AUSTRALIA  
SEISMOLOGICAL STATION - PERTH OBSERVATORY  
Seismological Bulletin for January - March 1962.

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) ... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) ... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) ... E

No.	Date	Phase	Component	Time			Remarks	
				h.	m.	s.		
<u>JANUARY</u>								
1	5th	i	N	E	0	42	46	-
		M				54	56	
		M	V	E		58	13	
		M				58	20	
2	16th	eP	V	E	11	45	15	Kermadec Islands
		iS				53	23	
		M	N	E	12	0	10	
		M				2	43	
		M	V	E		3	36	
		M				8	0	
		M				8	11	

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

3rd (3) 4th (2) 5th (2) 12th (1) 14th (1) 17th (2)  
 18th (1) 19th (2) 23rd (1) 28th (1) 30th (1)

FEBRUARY

3	3rd	iP	V	N	E	0	45	5	North of New Guinea
		iP					-	45	
		iPPP	V	N	E		47	7	
		iS					50	57	
		iSS	V	N	E		53	40	
		i					53	48	
		i					53	55	
		M	V	N	E		58	36	
		M					59	31	
		M					1	1	
4	4th	eP	V	N	E	3	0	30	Celebes
		iS					-	5	
		i	V	N	E		5	18	
		i					5	44	
		i					7	10	
		M	V	N	E		12	16	
		M					13	23	
M									
5	8th	iP	V	N	E	11	56	23	
		iS					12	2	
		i	V	N	E		2	22	
		M					9	28	
		M	V	N	E		12	22	
		M					12	31	

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
6	11th	eP	V	N	E	19	3	36	New Ireland Region
		i	V		E	-	5	56	
		iS		N	E	-	10	7	
		i	V			-	10	15	
		i		N		-	13	26	
		i	V			-	13	30	
		i			E	-	13	35	
		M		N		-	17	34	
M		V			-	18	49		
7	14th	iP	V			6	50	37	Near coast of Chile
		iPP	V			-	55	17	
		iS	V	N		7	4	26	
		i			E	-	10	40	
		i		N		-	11	5	
		i	V			-	11	15	
		M			E	-	23	59	
		M	V			-	37	35	
		M	V			-	39	4	
		M	V			-	42	42	
8	23rd	ePP	V			11	49	57	North coast of New Guinea
		iS			E	-	54	20	
		i	V			-	54	25	
9	23rd	iS		N	E	20	36	10	New Britain
		i	V			-	36	22	
		iSS	V	N	E	-	39	32	
		M		N		-	44	21	
		M		N		-	45	8	
		M			E	-	46	45	
		M			E	-	48	30	
		M	V			-	48	41	
M	V			-	51	23			

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

1st (1) 4th (1) 15th (1) 20th (2) 23rd (1) 24th (1)  
 26th (1) 27th (1)

MARCH

10	1st	iP	V			23	50	42	Samoa Islands.
		iS			E		58	20	
		M			E	0	10	30	
		M		N			11	50	
		M	V				14	4	
		M			E		14	13	
11	3rd	eS		N		12	28	32	Near east coast of Mindanao
		iS			E		28	33	
12	7th	iP	V			11	9	58	Mariana Is.
		iS	V	N	E		17	10	
		iSS		N			21	12	
		iSS	V				21	14	
		iSS			E		21	15	

No.	Date	Phase	Component		Time			Remarks			
					h.	m.	s.				
13	9th	iS	V	N	E	22	20	55	Near coast of New Guinea		
		M		N		28	30				
		M				32	26				
14	11th	iP	V	N	E	19	27	57	Near east coast of Mindanao		
		iS				-	33	12			
		i				-	33	18			
		i				-	36	30			
15	12th	P'	V			12	0	5	Near south coasts of Panama & Costa Rica		
16	17th	iP'	V			21	7	32	North Atlantic Ocean		
		iSS						31		17	
		M					E	22		16	40
		M						17		17	
17	21st	iP	V	N		23	2	41	Java Sea		
		i				N	5	34			
		iS				N	6	30			
		i					6	54			
		i				N	9	45			
		i					10	40			
		i					12	9			
		i					13	45			
18	22nd	iP	V		E	0	24	36	Java Sea		
		i					25	54			
		iS					28	22			
		iS				N	28	24			
		i					28	40			
		i				N	28	45			
		i					31	30			
		i				N	31	39			
		M					36	47			
		M				N	37	4			
		M					37	26			
		19				22nd	iP	V		N	E
eP			20	26							
i			20	36							
iPPP			22	20							
iPPP			22	26							
iPPP	N		22	29							
i			24	58							
iS	N		26	18							
i			26	42							
i	N		26	43							
i			27	27							
iSS	N		29	7							
M	N		33	53							
M			34	4							
M	N	34	10								
M		34	48								
M		38	39								
20	24th	iP	V	N	E	13	6	50	Near north coast of New Guinea		
		i					7	17			
		i					7	19			
		iPP				N	8	15			
		iPPP				N	8	47			
		iS				N	12	30			
		iS					12	31			
		i					15	18			
		iSS				N	15	22			

4.

No.	Date	Phase	Component	Time			Remarks	
				h.	m.	s.		
21	29th	e	N	20	16	47	Halmahera Region	
		i	N		21	15		
		M		E		27		3
		M	V			28		15
		M		N		28		49

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

2nd (1) 6th (1) 8th (1) 10th (2) 16th (2) 18th (2) 19th (2)  
 23rd (2) 24th (1) 26th (2) 27th (1) 28th (1) 31st (1)



*Library*

PERTH, WESTERN AUSTRALIA  
SEISMOLOGICAL STATION - PERTH OBSERVATORY  
Seismological Bulletin for April - June 1962

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) ... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) ... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) ... E

APRIL

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
22	1	i	N		12	24	30	Fox Island, Aleutian Islands	
		i	E			24	34		
		i	E			25	57		
		i	E			26	38		
		i	E			27	16		
		i	N			28	12		
		i	V			28	40		
		iPPPS	V	E		29	32		
		i	N			33	48		
		iSS	V	E		34	13		
		i		E		34	19		
		i	N			34	38		
		i	N			34	50		
		i		E		35	7		
		i	V			35	12		
i	N			38	38				
iSSS	V	E		38	46				
23	3	eP	V	E	16	33	49	Santa Cruz Island Region	
		ePP	V			35	41		
		eS		E		40	59		
		eS	N			41	0		
		i		E		41	10		
		eSS	N			44	40		
		e	V			45	17		
		e	N			45	44		
		M	N			50	29		
M		E		52	13				
M	V			53	20				
24	9	i	V		9	0	21	Sawoe Sea	
		i	N			0	29		
		e		E		2	1		
		i	V			4	1		
		iS	V	E		4	29		
		iS	N			4	34		
		i	V			5	17		
M	V			11	4				
25	12	iP	V	N	E	1	4	22	Near east coast of Honshu, Japan.
		i		N		4	37		
		iPP	V	N		7	28		
		iPPP	V			9	13		
		iS		N	E	13	50		
		i		N		14	10		
		i			E	14	33		
		i		N		14	56		
i		N		15	56				





No.	Date	Phase	Component		Time			Remarks
					h.	m.	s.	
25 contd	12	iSS		E	1	18	47	Near east coast of Honshu, Japan.
		i	N	18		58		
		i	V	19		12		
		i	N	20		9		
		i	E	20		36		
		iSSS	E	21		54		
		i	N	22		10		
		M	N	24		7		
		M	E	24		10		
		M	N	32		10		
		M	E	37		39		
M	V	37	43					
M	V	40	28					
M	V	2	7	41				
26	18	i	V		19	36	50	Off coast of Peru
		i	N	36		57		
		i	V	37		55		
		i	N	38		3		
		i	N	47		20		
		e	V	59		41		
		M	V	20		36		
		M	V	23		28		
		M	N	23		37		
		M	N	32		12		
		M	V	32		32		
27	19	iS	N		22	30	51	New Hebrides Islands
		iS	E	30		55		
		i	N	32		10		
		i	N	35		42		
		M	N	43		3		
		M	E	44		1		
		M	V	44		10		
28	20	iP'	V		6	8	2	Near north coast of Haiti
		i	V	9		4		
		i	V	9		21		
		i	E	9		26		
		i	V	12		50		
		i	V	17		43		
		i	N	19		38		
		i	E	20		4		
		i	V	26		32		
		i	E	33		30		
		i	N	34		31		
		i	E	34		36		
		M	N	47		5		
		M	V	7		14	40	
		M	E	15		36		
M	E	19	45					
M	V	20	49					
M	V	22	45					
29	23	iP	V	N E	6	10	11	Hokkardo, Japan
		i	V	10		35		
		iPP	N	E		13	20	
		iPPP	E	15		9		
		iPPP	N	15		11		
		i	V	15		20		
		i	N	19		13		
iS	N	E	20	4				

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
29 contd.	23	i	N			6	22	5	Hokkardo, Japan
		iSS	E				25	36	
		iSSS	E				29	6	
		M	E				36	9	
		M	N				36	30	
		M	V				36	38	
		M	V				38	54	
		M	V				40	48	
30	30	iP	V			16	27	12	Tonga Islands Region.
		i	V				29	34	
		iS	N		E		35	42	
		i	N				35	50	
		iSSS	N				42	42	
		M	N				51	15	
		M	N				54	17	
		M	V				55	22	
		M			E		55	27	
		M	V				56	32	
		M			E		56	38	

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

4th (1) 6th (1) 7th (1) 18th (1) 21st (1) 25th (1)  
30th (1)

MAY

31	3	i	N			3	50	34	Sandwich Islands Region.	
		iS	N			-	57	58		
		e	V			-	59	16		
		i	N			-	59	18		
		iSS	N			4	3	40		
		i			E	-	9	47		
		i			E	-	17	29		
		M	V			-	17	32		
		M	N			-	17	40		
		M	V			-	21	9		
32	6	iP	V	N	E	19	12	48	Sandwich Islands Region.	
		iPP	V	N	E	-	16	7		
		iPPP				-	18	8		
		iS	V	N	E	-	23	17		
		i	V			-	23	51		
		i	N			-	24	28		
		i			E	-	25	9		
		i	N			-	25	41		
		i	V			-	25	50		
		iSS	V			E	-	28		44
		iSSS	V			-	32	20		
		i			E	-	34	54		
		M	V			-	42	55		
		M	N			-	43	2		
		M			E	-	43	16		
M	V			-	45	31				



No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
33	7	iP	V	N	17	52	11	Kurile Islands	
		i	V		-	52	20		
		iPP	V	N	-	55	27		
		iPPP		N	-	57	20		
		iS			E	18	2		31
		i		N		-	2		45
		i	V			-	3		16
		i			E	-	3		20
		iSS			E	-	7		53
		M		N		-	19		27
34	11	iP'	V		E	14	31	32	Near coast of Medico
		i	V			-	31	38	
		i	V			-	32	21	
		i	V			-	33	42	
		iPP	V			-	35	15	
		i		N	E	-	41	41	
		i	V			-	46	5	
		iSS	V		E	-	54	15	
		i		N		-	54	20	
		iSSS	V		E	-	59	32	
		i	V			15	19	32	
		M	V			-	22	45	
		M			E	-	26	54	
		M	V			-	27	7	
M			E	16	12	16			
35	31	iP	V			6	38	13	
		iPP	V				40	38	
		iS	V				46	8	
		iSS	V				50	32	
		iSSS	V				53	25	

TREMORS.

Tremors and undecipherable disturbances (were recorded:-

By instrument V, N, E on:-

1st (1) 6th (2) 9th (1) 10th (1) 11th (1) 12 (2)

JUNE

36	18	iP	V			23	50	31	New Britain Region
		i		N		-	50	46	
		i			E	-	51	15	
		iPP			E	-	52	16	
		iPPP	V	N	E	-	52	56	
		iS			E	-	56	48	
		i		N		-	56	54	
		i		N	E	-	57	30	
		i			E	-	57	55	
		iSS	V	N	E	0	0	11	
		i	V			-	0	47	
		M		N		-	2	32	
		M			E	-	5	36	
		M		N		-	7	15	
		M			E	-	9	40	
M	V			-	10	14			



No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
37	23	iP	N	E	9	54	39	Ryukyu Islands	
		i	N		-	54	45		
		i	N		-	59	29		
		iS	N	E	10	2	43		
		i	N		-	3	5		
		i	N		-	3	20		
		i		E	-	6	11		
		i		E	-	6	28		
		iSS	N		-	6	45		
		i	N		-	9	6		
		M		E	-	10	47		
		M	N		-	14	50		
		M	N		-	22	30		
38	25	iP	V	N	11	20	2	Off Coast of Formosa.	
		iPP	V	N	-	22	10		
		iPPP	V		-	23	17		
		iS	V	N	-	27	46		
		i		E	-	27	58		
		i	V	N	-	28	8		
		i	V		-	31	35		
		iSS		N	-	31	57		
		i		E	-	32	6		
		i		N	E	-	32		30
		i			E	-	34		20
		M			E	-	36		20
		M	V	N		-	38		25
		M			E	11	39		45
		M	V			-	41		30
M		N		-	46	11			

Tremors and undecipherable disturbances were recorded:-  
 By instrument V, N, E on:-

2nd (3) 3rd (1) 14th (2) 17th (2) 19th (1) 24th (1)  
 27th (2) 28th (1) 30th (1)

ROYAL OBSERVATORY  
4 SEP 1962  
EDINBURGH

PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for July - September 1962

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) ..... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) ..... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) ..... E

No.	Date	Phase	Component	Time			Remarks	
				h.	m.	s.		
<u>JULY</u>								
39	2nd	iP	V		8	41	38	Santa Cruz Islands
		i	V		-	42	8	
		i		E	-	43	23	
		iPP		N	-	43	30	
		i	V		-	46	48	
		iS		N E	-	48	46	
		i	V		-	50	14	
		iSS		N E	-	52	36	
		M		N	-	59	12	
		M	V		E	9	4	
M	V			-	5	54		
40	3rd	i		N	18	34	32	600 miles west of Macquarie Island
		i		N	-	43	42	
		i	V		-	43	45	
		M	V		-	47	25	
41	6th	iP	V		23	17	21	Hindu Kush
		iPP	V		-	18	14	
		iSP	V		-	18	36	
		iPPP	V		-	20	36	
		iS	V		-	27	8	
		i	V	N	-	27	51	
		i		N	-	28	54	
		i		N	-	29	17	
		i	V		-	31	52	
		iSS		N	-	32	16	
		i	V		-	33	15	
		iSSS		N	-	36	8	
		i		N	-	37	25	
G	V		-	38	50			
42	16th	iP	V		2	10	35	South of Tasmania
		iS	V		-	15	20	
		i	V		-	17	9	
		M	V		-	18	39	
43	22nd	i		N	0	38	51	
		i		N	-	39	9	
		M		N	-	44	33	
		M		N E	-	46	4	



No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
44	26th	iP	V			8	34	45	South of Panama
		i		E		-	35	49	
		i		N		-	36	40	
		i	V			-	38	3	
		iPP	V	N		-	38	21	
		iSS	V	N	E	-	57	42	
		M		N		9	3	56	
		i	V			-	5	5	
		M		N		-	22	59	
		M	V			-	25	36	
		M	V			-	40	41	
M			E	-	54	35			
45	30th	iP	V			17	24	12	Near north coast of New Guinea
		i	V			-	24	55	
		iPP	V	N		-	25	43	
		iPPP	V			-	26	8	
		i	V			-	27	10	
		iS		N		-	29	53	
		M	V			-	36	40	
		M	V			-	37	38	
		M	V			-	40	10	
46	30th	iP'	V			20	38	40	Western Columbia
		iPP		N		-	41	57	
		i	V			-	44	36	
		i	V			-	45	48	
		i		N		-	48	56	
		i	V			-	55	24	
		i	V			-	57	36	
		i	V			-	58	46	
		iSS		N		21	1	25	
		iSSS		N		-	7	9	
		i	V			-	15	45	

Tremors and undecipherable disturbances were recorded:-  
By instrument V, N, E on:-

4th (1) 6th (1) 7th (2) 9th (1) 11th (1) 12th (1)  
13th (1) 25th (1) 28th (1)

AUGUST									
47	1st	iP	V		E	4	44	26	Near north coast of New Guinea
		i		N		-	46	18	
		iPPP	V			-	46	28	
		i	V			-	48	11	
		i	V			-	50	24	
		iS	V			-	50	31	
		iS		N		-	50	35	
		M		N	E	-	55	53	
		M	V			-	55	57	
		M	V			5	0	20	
		48	3rd	i	V			9	
iPP	V					-	16	56	
i				N		-	17	5	
i				N		-	18	25	
i					E	-	33	48	
iSSS				N	E	-	39	27	
M					E	-	49	35	
M					E	-	52	37	

No.	Date	Phase	Component	Time			Remarks			
				h.	m.	s.				
48 contd.	3rd	M	N	-	58	1	Northern Chile- Argentine border			
		M	N	-	59	34				
		M	V	10	1	36				
		M	V	-	6	39				
49	6th	iP	V		21	1	Kermadec Island Region			
		i		E	-	1		53		
		i		N	E	-		10	31	
		i		N		-		13	51	
		i	V			-		16	29	
		M		E		-		21	12	
		M	V			-		21	17	
		M		N		-		24	30	
		50	11th	iP	V			8	25	Off NE coast of Formosa
				i		E		-	25	
i				N		-	26	8		
i	V					-	26	11		
i				N	E	-	29	12		
i	V					-	32	55		
iS				N	E	-	33	4		
i	V					-	33	49		
i	V					-	34	40		
iSS				N		-	37	19		
i	V					-	39	31		
iSSS					E	-	40	6		
M				N		-	44	21		
M					E	-	44	32		
M	V			N		-	45	18		
51	14th	iS		N	E	1	24	300 miles north of Macquarie Island		
		iSS		N	E	-	27		29	
		M		N		-	29		8	
		M		N		-	29		32	
		M			E	-	29		56	
		M	V			-	30		52	
52	17th	i	V			5	15	Pagne Region Philippine Island		
		iS		N	E	-	18		58	
		i	V			-	19		40	
		i			E	-	19		55	
		i	V	N		-	20		5	
		i			E	-	21		30	
		M			E	-	25		40	
		M		N		-	26		53	
		M	V			-	27		21	
		M			E	-	29		36	
53	21st	iP			E	21	16	Kermadec Island		
		iPP			E	-	18		19	
		iS			E	-	24		5	
		i		N		-	24		8	
		i	V			-	31		59	
		i		N		-	35		52	
		M	V		E	-	40		42	
		M		N		-	43		26	
		M	V			-	45		48	
M			E	-	46	32				



PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for October - December 1962.

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) .... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) .... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) .... E

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
63	6th	iP		E	4	32	25	New Hebrides Islands	
		i	V		-	32	30		
		iPP	V	E	-	34	22		
		iPPP	V		-	35	17		
		i	V		-	36	43		
		iS	V	N	E	-	39		16
		iSS	V		E	-	42		54
		i	V			-	43		44
		M			E	-	48		2
		M		N		-	51		45
		M	V			-	53		50
M		N		-	54	20			
64	6th	iP		E	8	12	16	New Hebrides Islands	
		i		N	-	17	49		
		iS		E	-	19	27		
		i	V	E	-	19	40		
		i		E	-	22	57		
		iSS	V		-	23	20		
		M		N		-	31		52
		M		E	-	34	10		
65	6th	i	V		23	42	24	New Hebrides Islands	
		iS	V	E	-	47	36		
		iSS	V		-	51	7		
		i		E	-	51	15		
		i		N		-	52		47
		M	V		0	2	14		
		M		E	-	2	3		
M		N		-	4	38			
66	8th	i		N	22	11	43	Near east coast of Formosa	
		iS	V	N	E	-	13		54
		i		N		-	13		57
		i		E	-	18	41		
		i		E	-	20	30		
		M		E	-	29	11		
		M		N		-	29		29
67	9th	iP	V	N	20	22	34	Bismark Sea	
		iPP	V	N	E	-	24		12
		iPPP	V		-	24	41		
		iS		N	E	-	28		50
		iSS		N		-	31		40
		M		N		-	38		0
		M		N		-	39		0
68	13th	eP		E	18	56	45	Santa Cruz Island Region	
		iS		E	19	3	52		
		iSS		E	-	7	32		
		M		E	-	18	22		

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
69	22nd	e			E	4	48	24	Bismark Sea
		i	V			-	54	28	
		i		N		-	54	32	
		M			E	-	57	10	
		M		N		-	57	26	
		M	V			5	0	13	
70	25th	iP	V			9	41	10	Molucca Passage
		i		N		-	41	20	
		iPP	V			-	42	35	
		iS		N	E	-	46	42	
		i	V			-	49	15	
		iSS		N		-	49	41	
		M			E	-	53	49	
71	25th	iPP	V		E	20	15	17	S.W. of Macquarie Islands
		iS		N		-	19	37	
		iS			E	-	19	40	
		iSS	V	N	E	-	22	33	
		M			E	-	23	54	
		M		N		-	24	45	
		M	V			-	24	50	
		M		N		-	25	32	
72	26th	i		N		7	36	18	New Hebrides Islands
		iS			E	-	36	32	
		i		N		-	40	49	
		M		N		-	47	51	
		M	V			-	51	54	
		M			E	-	53	0	
73	30th	i			E	15	54	15	
		i		N		-	54	41	
		i			E	-	55	8	
		i		N		16	0	28	
		i			E	-	0	50	
		i		N		-	1	41	
		M		N		-	6	57	
		M	V			-	7	5	
		M			E	-	7	48	

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

1st (2) 6th (4) 13th (1) 14th (1) 18th (1) 25th (1)  
 26th (1) 29th (1) 30th (1)

NOVEMBER

74	1st	iP	V			15	40	31	Off coast of Western New Guinea
		iPPP	V	N		-	42	27	
		iS	V	N	E	-	46	24	
		iSS		N		-	50	20	
		M			E	-	53	52	
		M		N		-	55	05	
		M	V			-	58	15	
75	1st	iP	V			17	59	34	North of Western New Guinea
		iPPP		N		18	01	10	
		iS		N		-	05	21	
		i			E	-	05	34	
		iSS			E	-	08	31	
		M			E	-	12	51	
		M		N		-	14	04	
		M	V			-	17	15	

3.

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
76	2nd	iP	V	N		14	51	29	South of Sumbawa
		iPP	V		E	-	51	43	
		i		N		-	51	56	
		i	V			-	52	45	
		iS	V	N	E	-	55	39	
		M	V			15	0	32	
		M		N		-	1	12	
		M			E	-	1	32	
		M			E	-	10	07	
		M	V			-	10	37	
M		N		-	10	42			
77	7th	iP	V	N	E	16	8	6	<del>XFlores</del> Sea Flores Sea
		iPP	V		E	-	8	56	
		iS		N	E	-	12	36	
		iS	V			-	12	39	
		M			E	-	14	28	
		M	V			-	14	53	
		M		N		-	14	57	
78	11th	iP	V			16	18	47	Santa Cruz Islands
		iPP	V		E	-	20	47	
		iPPP	V			-	21	48	
		iS	V	N	E	-	25	56	
		i		N		-	26	30	
		i			E	-	27	25	
		iSS	V		E	-	29	34	
		i	V			-	30	34	
		i		N		-	30	50	
		iSSS		N	E	-	31	16	
		M			E	-	38	11	
		M	V			-	38	16	
		M		N		-	38	49	
M	V			-	41	21			
79	16th	iP			E	7	32	20	Easter Island Region
		iPP			E	-	36	41	
		iS			E	-	44	25	
		iSS			E	-	51	14	
		i	V			-	58	00	
		M	V			8	04	59	
80	16th	iP	V			21	24	40	
		iPPP			E	-	26	17	
		i		N	E	-	27	39	
		i	V			-	27	50	
		iS	V		E	-	30	35	
		i	V			-	31	36	
		iSS		N		-	33	39	
		M			E	-	36	24	
		M			E	-	39	05	
		M	V			-	39	20	
81	27th	eP	V			16	59	38	Mariana Islands
		eS			E	17	07	10	
		i		N		-	07	24	
		i		N		-	08	57	
		iSS			E	-	10	50	
		M		N		-	19	36	
		M			E	-	20	14	
M	V			-	22	33			



No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
82	29th	iP	V			19	15	33	New Hebrides Islands
		i	V			-	17	31	
		iS		N	E	-	22	39	
		i		N		-	24	11	
		iSS			E	-	26	35	
		i	V			-	26	40	
		M			E	-	33	53	
		M		N		-	34	24	
M		V		E	-	36	18		

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

2nd (1) 3rd (3) 4th (1) 10th (2) 11th (4) 14th (1) 15th (2)  
 18th (1) 19th (2) 20th (2) 24th (1) 26th (1) 28th (1) 30th (1)

DECEMBER

83	4th	i		N		10	44	39	New Britain Island
		i		N		-	48	16	
		i	V			-	48	21	
		i		N		-	48	38	
		iSS	V	N		-	51	10	
		M	V			11	00	19	
		M			N		01	00	

84	4th	iP	V	N		16	50	54	Samoa Islands Region
		iS		N		-	59	45	
		i		N		17	01	09	
		i		N		-	07	46	
		M		N		-	15	19	
		M	V			-	20	26	

85	4th	i	V	N		20	28	24
		iS		N		-	32	20
		M	V			-	34	15
		M			N	-	34	50

86	7th	iP	V	N	E	14	13	35
		iPP	V			-	15	04
		iPPP	V	N		-	15	50
		i		N		-	16	30
		i			E	-	18	21
		i	V			-	18	43
		iS	V	N		-	19	41
		iSS	V		E	-	21	42
		i			E	-	22	45
		M			E	-	24	30
		M		N		-	24	51
		M	V			-	29	25

87	8th	iP	V		E	18	29	14	Tonga Islands Region
		i	V		E	-	29	35	
		i		N		-	31	31	
		iPP	V			-	31	45	
		iPPP		N		-	33	34	
		iS			E	-	38	35	
		i		N		-	45	34	
		i			E	-	45	54	
		M		N		-	53	04	
		M		N		-	55	43	
		M	V			-	55	46	

5.

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
88	8th	iP	N	E	21	40	55	Salta-Santiago Border	
		iPP	V		-	46	58		
		iS		E	-	53	54		
		i	N		-	55	35		
		i		E	-	55	41		
		i		E	-	57	53		
		i	V		-	58	52		
		iSS	V	E	22	02	56		
		iSSS	N	E	-	07	20		
		M		E	-	19	00		
		M	V		-	29	28		
M	N		-	31	38				
89	12th	iP	V	N	E	10	16	55	New Britain
		i	V	N	E	-	17	25	
		iPPP	V	N	E	-	19	15	
		iS		N	E	-	23	26	
		i	V		-	23	46		
		iSS	V	N	E	-	26	45	
		iSSS		E	-	28	30		
		M	N		-	33	28		
		M		E	-	33	33		
		M	V		-	34	55		
90	17th	iP	N	E	11	06	43	Celebes Sea	
		i	V		-	10	41		
		i	N		-	10	45		
		iS	N	E	-	11	30		
		iSS		E	-	14	34		
		i	V		-	14	45		
		M	V		-	16	31		
		M		E	-	18	20		
91	19th	iP	V		13	04	30	Solomon Islands	
		iPPP		E	-	06	50		
		e	V		-	06	53		
		iS		E	-	11	12		
		i	N	E	-	11	31		
		iSS	V	N	-	14	16		
92	20th	iS	N	E	18	35	09	Balleny Islands Region	
		iSS	N	E	-	38	21		
		M		E	-	39	17		
		M	N		-	39	25		
		M	V		-	41	00		
93	21st	iP	V	N	0	49	19	Near South Coast of Java	
		i	V		-	49	27		
		i	N		-	49	39		
		iPP	V	N	E	-	49		44
		i	N		-	50	15		
		iS	V	N	E	-	53		24
		M		E	-	57	15		
		M	V		-	58	36		
		M	N		1	00	00		
		94	21st	iP		E	8		55
e	V				9	01	39		
e	V				-	03	11		
iS	N			E	-	09	04		
i	N				-	11	55		
i	N				-	13	19		
iSS	N			E	-	15	19		
M	V				-	39	32		
M				E	-	39	48		
M	N				-	42	36		

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
95	22nd	iP	V		E	1	01	10	Loyalty Islands Region
		iPP			E	-	03	07	
		iPPP	V		E	-	04	08	
		iS		N	E	-	08	15	
		iSS		N	E	-	11	50	
		i		N		-	14	30	
		L		N		-	15	21	
96	22nd	iP	V	N		2	04	55	Near South coast of Java
		iPP	V	N		-	05	39	
		iS	V	N	E	-	09	06	
		M		N		-	13	06	
		M	V			-	13	26	
97	26th	eP			E	22	38	50	Komandorskie Islands
		iS		N	E	-	50	05	
		i	V			-	51	35	
		iSS			E	-	56	45	
		iSSS			E	23	00	54	
		M	V			-	25	51	
		M		N		-	26	00	
M			E	-	29	11			
98	27th	eP			E	14	09	31	Near North coast of New Guinea
		ePPP	V			-	11	20	
		iS			E	-	15	19	
		M	V		E	-	26	10	
99	29th	iP	V		E	14	57	18	Kermadec Islands Region
		i	V			-	57	44	
		iPP			E	15	00	47	
		iS	V		E	-	05	07	
		i		N		-	07	06	
		iSS			E	-	09	25	
		M	V			-	26	44	
		M			E	-	26	51	
M		N		-	27	25			
100	30th	iP	V		E	18	24	26	New Britain
		iPP	V		E	-	26	20	
		iPPP	V	N	E	-	26	49	
		iS		N	E	-	31	06	
		i		N	E	-	31	30	
		iSS	V	N	E	-	34	15	
		M	V			-	39	22	
		M			E	-	39	55	
		M		N		-	41	00	

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

1st (3) 2nd (1) 5th (1) 6th (1) 10th (1) 18th (1) 21st (2)  
 22nd (2) 23rd (1) 24th (1) 25th (1) 27th (1) 31st (3)

*collected  
 corrected RD  
 13/5/66*

PERTH, WESTERN AUSTRALIA  
SEISMOLOGICAL STATION - PERTH OBSERVATORY  
Seismological Bulletin for January - March 1962.

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) ... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) ... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) ... E

No.	Date	Phase	Component	Time			Remarks		
				h.	m.	s.			
<u>JANUARY</u>									
1	5th ✓	i	N	E	0	42	46	-	
		M					54		56
		M	V				58		13
		M		E			58		20
2	16th ✓	eP	V	E	11	45	15	Kermadec Islands	
		iS	V	E		53	23		
		M	N		12	0	10		
		M		E			2		43
		M	V				3		36
		M		E			8		0
		M	V				8		11

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

3rd (3) 4th (2) 5th (2) 12th (1) 14th (1) 17th (2)  
 18th (1) 19th (2) 23rd (1) 28th (1) 30th (1)

FEBRUARY

3	3rd ✓	iP	V	N		0	45	5	North of New Guinea	
		iP			E			-		45
		iPPP	V	N				47		7
		iS	V	N	E			50		57
		iSS		N				53		40
		i	V					53		48
		i		N				53		55
		M		N				58		36
		M			E			59		31
		M	V				1	1		10
4	4th ✓	eP	V	N		3	0	30	Celebes	
		iS						5		11
		i	V					5		18
		i			E			5		44
		i			E			7		10
		M			E			12		16
		M	V					13		23
5	8th ✓	iP	V	N	E	11	56	23		
		iS			E	12	2	16		
		i	V					2		22
		M	N					9		28
		M		E				12		22
		M	V					12		31

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
6	11th ✓	eP	V	N	E	19	3	36	New Ireland Region
		i	V		E	-	5	56	
		iS		N	E	-	10	7	
		i	V			-	10	15	
		i		N		-	13	26	
		i	V			-	13	30	
		i			E	-	13	35	
		M		N		-	17	34	
M		V			-	18	49		
7	14th ✓	iP	V			6	50	37	Near coast of Chile
		iPP	V			-	55	17	
		iS	V	N		7	4	26	
		i			E	-	10	40	
		i		N		-	11	5	
		i	V			-	11	15	
		M			E	-	23	59	
		M	V			-	37	35	
		M	V			-	39	4	
		M	V			-	42	42	
8	23rd ✓	ePP	V			11	49	57	North coast of New Guinea
		iS			E	-	54	20	
		i	V			-	54	25	
9	23rd ✓	iS		N	E	20	36	10	New Britain
		i	V			-	36	22	
		iSS	V	N	E	-	39	32	
		M		N		-	44	21	
		M		N		-	45	8	
		M			E	-	46	45	
		M			E	-	48	30	
		M	V			-	48	41	
M	V			-	51	23			
Tremors and undecipherable disturbances were recorded:-									
By instrument <u>V</u> , <u>N</u> , <u>E</u> on:-									
1st (1) 4th (1) 15th (1) 20th (2) 23rd (1) 24th (1)									
26th (1) 27th (1)									
<u>MARCH</u>									
10	1st ✓	iP	V			23	50	42	Samoa Islands.
		iS			E	-	58	20	
		M			E	0	10	30	
		M		N		-	11	50	
		M	V			-	14	4	
		M			E	-	14	13	
11	3rd ✓	eS		N		12	28	32	Near east coast of Mindanao
		iS			E	-	28	33	
12	7th ✓	iP	V			11	9	58	Mariana Is.
		iS	V	N	E	-	17	10	
		iSS		N		-	21	12	
		iSS	V			-	21	14	
		iSS			E	-	21	15	

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
13	9th ✓	iS M M	V	N N	E	22	20 28 32	55 30 26	Near coast of New Guinea
14	11th ✓	iP iS i i	V  V	 N	E	19	27 - - -	57 33 33 36	Near east coast of Mindanao
15	12th ✓	P'	V			12	0	5	Near south coasts of Panama & Costa Rica
16	17th ✓	iP' iSS M M	V V V		E	21 22	7 31 16 17	32 17 40 17	North Atlantic Ocean
17	21st ✓	iP i iS i i i- i i	V V V V V V	N N N N	E E	23	2 5 6 6 9 10 12 13	41 34 30 54 45 40 9 45	Java Sea
18	22nd ✓	iP i iS iS i i i- M M M	V V V V V V V V V		E	0	24 25 28 28 28 28 31 31 36 37 37	36 54 22 24 40 45 30 39 47 4 26	Java Sea
19	22nd ✓	iP eP i iPPP iPPP iPPP i iS i i i iSS M M M M M	V V V V V V V V V V V V V V V		E	15	20 20 20 22 22 22 24 26 26 26 27 29 33 34 34 34 38	25 26 36 20 26 29 58 18 42 43 27 7 53 4 10 48 39	Near north coast of New Guinea
20	24th ✓	iP i i iPP iPPP iS iS i iSS	V V V V V V V V		E	13	6 7 7 8 8 12 12 15 15	50 17 19 15 47 30 31 18 22	Near north coast of New Guinea

4.

No.	Date	Phase	Component	Time			Remarks	
				h.	m.	s.		
21	29th ✓	e	N	20	16	47	Halmahera Region	
		i	N		21	15		
		M		E		27		3
		M	V			28		15
		M		N		28		49

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

- 2nd (1) 6th (1) 8th (1) 10th (2) 16th (2) 18th (2) 19th (2)
- 23rd (2) 24th (1) 26th (2) 27th (1) 28th (1) 31st (1)

PERTH, WESTERN AUSTRALIA  
SEISMOLOGICAL STATION - PERTH OBSERVATORY  
Seismological Bulletin for April - June 1962

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) ... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) ... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) ... E

APRIL

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
22	1 ✓	i	N		12	24	30	Fox Island, Aleutian Islands	
		i	E			24	34		
		i	E			25	57		
		i	E			26	38		
		i	E			27	16		
		i	N			28	12		
		i	V			28	40		
		iPPPS	V	E		29	32		
		i	N			33	48		
		iSS	V	E		34	13		
		i	E			34	19		
		i	N			34	38		
		i	N			34	50		
		i	E			35	7		
i	V			35	12				
i	N			38	38				
iSSS	V	E		38	46				
23	3 ✓	eP	V	E	16	33	49	Santa Cruz Island Region	
		ePP	V			35	41		
		eS		E		40	59		
		eS		N		41	0		
		i		E		41	10		
		eSS		N		44	40		
		e	V			45	17		
		e		N		45	44		
		M		N		50	29		
		M		E		52	13		
M	V			53	20				
24	9 ✓	i	V		9	0	21	Sawoe Sea	
		i		N		0	29		
		e		E		2	1		
		i	V			4	1		
		iS	V	E		4	29		
		iS		N		4	34		
		i	V			5	17		
M	V			11	4				
25	12 ✓	iP	V	N	E	1	4	22	Near east coast of Honshu, Japan.
		i		N			4	37	
		iPP	V	N			7	28	
		iPPP	V				9	13	
		iS		N	E		13	50	
		i		N			14	10	
		i		E			14	33	
		i		N			14	56	
i		N			15	56			



No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
25 contd	12	iSS		E	1	18	47	Near east coast of Honshu, Japan.	
		i	N	18		58			
		i	V			19	12		
		i	N			20	9		
		i		E		20	36		
		iSSS		E		21	54		
		i	N			22	10		
		M	N			24	7		
		M		E		24	10		
		M	N			32	10		
		M		E		37	39		
		M	V			37	43		
M	V		40	28					
M	V		2	7	41				
26	18 ✓	i	V		19	36	50	Off coast of Peru	
		i		N		36	57		
		i	V			37	55		
		i		N		38	3		
		i		N		47	20		
		e	V			59	41		
		M	V			20	36		
		M	V			23	28		
		M		N		23	37		
		M	V			32	12		
M	V		32	32					
27	19 ✓	iS		N	22	30	51	New Hebrides Islands	
		iS		E		30	55		
		i		N		32	10		
		i		N		35	42		
		M		N		43	3		
		M		E		44	1		
		M	V			44	10		
28	20 ✓	iP'	V		6	8	2	Near north coast of Haiti	
		i	V			9	4		
		i	V			9	21		
		i		E		9	26		
		i	V			12	50		
		i	V			17	43		
		i		N		19	38		
		i		E		20	4		
		i	V			26	32		
		i		E		33	30		
		i		N		34	31		
		i		E		34	36		
		M		N		47	5		
		M	V			7	14		40
M		E	15	36					
M		E	19	45					
M	V		20	49					
M	V		22	45					
29	23 ✓	iP	V	N	6	10	11	Hokkardo, Japan	
		i	V			10	35		
		iPP		N		E	13		20
		iPPP				E	15		9
		iPPP		N			15		11
		i	V				15		20
		i		N			19		13
iS		N	E	20	4				

No.	Date	Phase	Component	Time			Remarks
				h.	m.	s.	
29 contd.	23	i	N	6	22	5	Hokkardo, Japan
		iSS	E		25	36	
		iSSS	E		29	6	
		M	E		36	9	
		M	N		36	30	
		M	V		36	38	
		M	V		38	54	
		M	V		40	48	
30	30 ✓	iP	V	16	27	12	Tonga Islands Region.
		i	V		29	34	
		iS	N E		35	42	
		i	N N		35	50	
		iSSS	N N		42	42	
		M	N N		51	15	
		M	N		54	17	
		M	V		55	22	
		M	E		55	27	
		M	V		56	32	
		M	E		56	38	

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

4th (1) 6th (1) 7th (1) 18th (1) 21st (1) 25th (1)  
30th (1)

MAY

31	3 ✓	i	N	3	50	34	Sandwich Islands Region.	
		iS	N		-	57		58
		e	V		-	59		16
		i	N		-	59		18
		iSS	N		4	3		40
		i	E		-	9		47
		i	E		-	17		29
		M	V		-	17		32
		M	N		-	17		40
		M	V		-	21		9
32	6 ✓	iP	V N E	19	12	48	Sandwich Islands Region.	
		iPP	V N E		-	16		7
		iPPP	V N E		-	18		8
		iS	V N E		-	23		17
		i	V		-	23		51
		i	N		-	24		28
		i	E		-	25		9
		i	N		-	25		41
		i	V		-	25		50
		iSS	V E		-	28		44
		iSSS	V		-	32		20
		i	E		-	34		54
		M	V		-	42		55
		M	N		-	43		2
M	E	-	43	16				
M	V	-	45	31				

No.	Date	Phase	Component		Time			Remarks
					h.	m.	s.	
33	7 ✓	iP	V	N	17	52	11	Kurile Islands
		i	V		-	52	20	
		iPP	V	N	-	55	27	
		iPPP		N	-	57	20	
		iS		E	18	2	31	
		i		N	-	2	45	
		i	V		-	3	16	
		i		E	-	3	20	
		iSS		E	-	7	53	
		M		N	-	19	27	
34	11 ✓	iP'	V	E	14	31	32	Near coast of Medico
		i	V		-	31	38	
		i	V		-	32	21	
		i	V		-	33	42	
		iPP	V		-	35	15	
		i		N E	-	41	41	
		i	V		-	46	5	
		iSS	V	E	-	54	15	
		i		N	-	54	20	
		iSSS	V	E	-	59	32	
		i	V		15	19	32	
		M	V		-	22	45	
		M		E	-	26	54	
		M	V		-	27	7	
M		E	16	12	16			
35	31 ✓	iP	V		6	38	13	
		iPP	V			40	38	
		iS	V			46	8	
		iSS	V			50	32	
		iSSS	V			53	25	

TREMORS.

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

1st (1) 6th (2) 9th (1) 10th (1) 11th (1) 12 (2)

					<u>JUNE</u>			
36	18 ✓	iP	V		23	50	31	New Britain Region
		i		N	-	50	46	
		i		E	-	51	15	
		iPP		E	-	52	16	
		iPPP	V	N E	-	52	56	
		iS		E	-	56	48	
		i		N	-	56	54	
		i		N E	-	57	30	
		i		E	-	57	55	
		iSS	V	N E	0	0	11	
		i	V		-	0	47	
		M		N	-	2	32	
		M		E	-	5	36	
		M		N	-	7	15	
M		E	-	9	40			
M	V		-	10	14			

No.	Date	Phase	Component	Time			Remarks
				h.	m.	s.	
37	23 ✓	iP	N E	9	54	39	Ryukyu Islands
		i	N	-	54	45	
		i	N	-	59	29	
		iS	N E	10	2	43	
		i	N	-	3	5	
		i	N	-	3	20	
		i	E	-	6	11	
		i	E	-	6	28	
		iSS	N	-	6	45	
		i	N	-	9	6	
		M	E	-	10	47	
		M	N	-	14	50	
		M	N	-	22	30	
38	25 ✓	iP	V N	11	20	2	Off Coast of Formosa.
		iPP	V N	-	22	10	
		iPPP	V	-	23	17	
		iS	V N	-	27	46	
		i	N E	-	27	58	
		i	V N	-	28	8	
		i	V	-	31	35	
		iSS	N	-	31	57	
		i	E	-	32	6	
		i	N E	-	32	30	
		i	E	-	34	20	
		M	E	-	36	20	
		M	V N	-	38	25	
M	E	11	39	45			
M	V	-	41	30			
M	N	-	46	11			

Tremors and undecipherable disturbances were recorded:-  
By instrument V, N, E on:-

2nd (3) 3rd (1) 14th (2) 17th (2) 19th (1) 24th (1)  
27th (2) 28th (1) 30th (1)

PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for July - September 1962

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) ... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) ... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) ... E

No.	Date	Phase	Component	Time			Remarks	
				h.	m.	s.		
<u>JULY</u>								
39	2nd	✓ iP	V		8	41	38	Santa Cruz Islands
		i	V		-	42	8	
		i		E	-	43	23	
		iPP		N	-	43	30	
		i	V		-	46	48	
		iS		N E	-	48	46	
		i	V		-	50	14	
		iSS		N E	-	52	36	
		M		N	-	59	12	
		M	V		E	9	4	
		M	V		-	5	54	
40	3rd	✓ i		N	18	34	32	600 miles west of Macquarie Island.
		i		N	-	43	42	
		i	V		-	43	45	
		M	V		-	47	25	
41	6th	✓ iP	V		23	17	21	Hindu Kush.
		iPP	V		-	18	14	
		iSP	V		-	18	36	
		iPPP	V		-	20	36	
		iS	V		-	27	8	
		i	V	N	-	27	51	
		i		N	-	28	54	
		i		N	-	29	17	
		i	V		-	31	52	
		iSS		N	-	32	16	
		i	V		-	33	15	
		iSSS		N	-	36	8	
		i		N	-	37	25	
G	V		-	38	50			
42	16th	✓ iP	V		2	10	35	South of Tasmania
		iS	V		-	15	20	
		i	V		-	17	9	
		M	V		-	18	39	
43	22nd	i		N	0	38	51	
		i		N	-	39	9	
		M		N	-	44	33	
		M		N E	-	46	4	

No.	Date.	Phase	Component			Time			Remarks
						h.	m.	s.	
44	26th	✓ iP	V			8	34	45	South of Panama
		i		E	-	35	49		
		i		N	-	36	40		
		i	V			-	38	3	
		iPP	V	N		-	38	21	
		iSS	V	N	E	-	57	42	
		M		N		9	3	56	
		i	V			-	5	5	
		M		N		-	22	59	
		M	V			-	25	36	
					-	40	41		
			E		-	54	35		
45	30th	✓ iP	V			17	24	12	Near north coast of New Guinea
		i	V			-	24	55	
		iPP	V	N		-	25	43	
		iPPP	V			-	26	8	
		i	V			-	27	10	
		iS		N		-	29	53	
		M	V			-	36	40	
		M	V			-	37	38	
		M	V			-	40	10	
46	30th	✓ iP'	V			20	38	40	Western Columbia
		iPP		N		-	41	57	
		i	V			-	44	36	
		i	V			-	45	48	
		i		N		-	48	56	
		i	V			-	55	24	
		i	V			-	57	36	
		i	V			-	58	46	
		iSS		N		21	1	25	
		iSSS		N		-	7	9	
		i	V			-	15	45	

Tremors and undecipherable disturbances were recorded:-  
By instrument V, N, E on:-

4th (1) 6th (1) 7th (2) 9th (1) 11th (1) 12th (1)  
13th (1) 25th (1) 28th (1)

AUGUST

47	1st	✓ iP	V		E	4	44	26	Near north coast of New Guinea
		i		N		-	46	18	
		iPPP	V			-	46	28	
		i	V			-	48	11	
		i	V			-	50	24	
		iS	V			-	50	31	
		iS		N		-	50	35	
		M		N	E	-	55	53	
		M	V			-	55	57	
		M	V			5	0	20	
48	3rd	✓ i	V			9	15	7	Northern Chile-Argentine border
		iPP	V			-	16	56	
		i		N		-	17	5	
		i		N		-	18	25	
		i			E	-	33	48	
		iSSS		N	E	-	39	27	
		M			E	-	49	35	
		M			E	-	52	37	

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
48 contd	3rd	M		N	-	58	1	Northern Chile- Argentine border	
		M		N	-	59	34		
		M	V			10	1		36
		M	V			-	6		39
49	6th ✓	iP	V			21	1	45	Kermadec Island Region
		i			E	-	1	53	
		i		N	E	-	10	31	
		i		N		-	13	51	
		i	V			-	16	29	
		M			E	-	21	12	
		M	V			-	21	17	
M		N		-	24	30			
50	11th ✓	iP	V			8	25	19	Off NE coast of Formosa
		i			E	-	25	22	
		i		N		-	26	8	
		i	V			-	26	11	
		i			E	-	29	12	
		i	V			-	32	55	
		iS		N	E	-	33	4	
		i	V			-	33	49	
		i	V			-	34	40	
		iSS		N		-	37	19	
		i	V			-	39	31	
		iSSS			E	-	40	6	
		M		N		-	44	21	
		M			E	-	44	32	
M	V	N		-	45	18			
51	14th ✓	iS		N	E	1	24	32	300 miles north of Macquarie Island
		iSS		N	E	-	27	29	
		M		N		-	29	8	
		M		N		-	29	32	
		M			E	-	29	56	
		M	V			-	30	52	
52	17th ✓	i	V			5	15	10	Pagne Region Philippine Island
		iS		N	E	-	18	58	
		i	V			-	19	40	
		i			E	-	19	55	
		i		N		-	20	5	
		i			E	-	21	30	
		M			E	-	25	40	
		M		N		-	26	53	
		M	V			-	27	21	
		M			E	-	29	36	
M		N		-	30	21			
53	21st ✓	iP			E	21	16	8	Kermadec Island
		iPP			E	-	18	19	
		iS			E	-	24	5	
		i		N		-	24	8	
		i	V			-	31	59	
		i		N		-	35	52	
		M	V		E	-	40	42	
		M		N		-	43	26	
		M	V			-	45	48	
M			E	-	46	32			

No.	Date	Phase	Component	Time			Remarks
				h.	m.	s.	
54	25th	iS	N	8	48	24	Fiji Islands
		i	E	-	48	30	
		i	V	-	48	33	
		i	E	-	49	7	
		i	N	-	49	51	
		i	E	-	50	53	
		iSS	N	-	53	47	
		iSSS	N	-	56	5	

Tremors and undecipherable disturbances were recorded:-  
By instrument V, N, E on:-

5th (2) 6th (1) 19th (1) 20th (1) 24th (1)

SEPTEMBER

55	1st	i	V		5	0	46	Rat Islands, Aleutian Islands
		i	N		-	0	57	
		i		E	-	2	12	
		i	V		-	3	54	
		i	V		-	5	34	
		iS		E	-	7	36	
		i	N		-	7	54	
		i		E	-	11	40	
		i	V		-	13	3	
		i	N		-	14	11	
		i		E	-	14	36	
		iSSS		E	-	18	44	
		M	N		-	19	11	
		M	V		-	22	12	
		M		E	-	22	29	

Also in New Hebrides group

56	1st	iP	V	E	19	33	49	North west Iran
		iPP	V		-	37	23	
		i		E	-	37	52	
		iS	V	E	-	44	20	
		i	N		-	44	27	
		i	V		-	44	51	
		iSS	V	N	-	50	55	
		iSSS		N	-	54	42	
		i		E	-	58	19	
		G	V		-	58	48	
		M		N	20	5	39	
		M		N	-	13	16	
		M		E	-	13	52	
		M	V		-	16	14	
		M	V		-	17	32	

57	2nd	iP	V		15	26	57	Soemba Island Region
		i		E	-	27	6	
		i	N		-	27	11	
		i	V		-	30	50	
		iS	V	N	-	30	56	
		i	V		-	31	5	
		i	N		-	31	8	
		i		E	-	32	41	
		M	N		-	36	38	
		M	V		-	37	47	
		M		E	-	40	46	





No.	Date	Phase	Component			Time			Remarks	
						h.	m.	s.		
58	12th ✓	iS	V	N	E	18	32	11	Near North coast of New Guinea	
		i				-	32	49		
		i	V	N	E	-	34	35		
		i				-	34	40		
		M	V	N	E	-	40	46		
		M				-	42	12		
59	12th ✓	iP	V			21	9	10	Hindu Kush.	
		i	V	N		-	11	52		
		i	V				-	18		55
		i			E		-	19		5
		i	V	N			-	19		49
		i	V				-	31		5
		M			E		-	40		17
		M	V	N			-	41		23
M	V				-	47	10			
60	18th ✓	iP	V			0	49	3	South of Panama	
		iPP	V			-	52	35		
		i	V				-	52		52
		i	V	N			-	59		15
		i	V				1	4		20
		i			E		-	12		16
		i			E		-	12		55
		iSS		N	E		-	13		15
		i		N			-	14		50
		i			E		-	17		26
		i		N			-	18		43
		i	V				-	18		54
		i	V				-	33		38
		i	V				-	37		12
		M		N			-	55		24
		M			E		-	57		34
M	V				2	2	11			
M		N			-	12	7			
61	20th	i			E	16	50	50	West New Guinea	
		i		N		-	55	7		
		i	V		E		-	56		24
		M			E		-	57		58
		M		N			-	59		32
		M	V				17	0		21
M		N			-	2	13			
62	22nd ✓	i			E	7	2	30	Northern Burma	
		i		N		-	6	40		
		i			E		-	6		54
		iS			E		-	10		8
		i	V				-	10		28
		i			E		-	11		44
		i	V				-	17		15
		M			E		-	26		12
		M	V				-	29		45
M		N			-	30	13			

Tremors and undecipherable disturbances were recorded:-  
 By instrument V, N, E on:-  
 5th (1) 6th (1) 26th (1) 27th (2) 29th (1) 30th (1)

PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for October - December 1962.

INSTRUMENTS

- 1 Columbia Lamont Seismometer (Vertical Component long-period) .... V
- 1 Sprengnether Horizontal Seismometer (N-S Component long-period) .... N
- 1 Sprengnether Horizontal Seismometer (E-W Component long-period) .... E

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
63	6th	✓ iP		E	4	32	25	New Hebrides Islands	
		i	V		-	32	30		
		iPP	V	E	-	34	22		
		iPPP	V		-	35	17		
		i	V		-	36	43		
		iS	V	N	E	-	39		16
		iSS	V		E	-	42		54
		i	V			-	43		44
		M			E	-	48		2
		M		N		-	51		45
		M	V			-	53		50
		M		N		-	54		20
64	6th	✓ iP		E	8	12	16	New Hebrides Islands	
		i		N	-	17	49		
		iS		E	-	19	27		
		i	V		E	-	19		40
		i			E	-	22		57
		iSS	V			-	23		20
		M		N		-	31		52
		M		E		-	34		10
65	6th	✓ i	V		23	42	24	New Hebrides Islands	
		iS	V	E	-	47	36		
		iSS	V		-	51	7		
		i		E	-	51	15		
		i		N	-	52	47		
		M	V		0	2	14		
		M		E	-	2	3		
		M		N	-	4	38		
66	8th	✓ i		N	22	11	43	Near east coast of Formosa	
		iS	V	N	E	-	13		54
		i		N	-	13	57		
		i		E	-	18	41		
		i		E	-	20	30		
		M		E	-	29	11		
		M		N	-	29	29		
		67	9th	✓ iP	V	N	20		22
iPP	V			N	E	-	24	12	
iPPP	V				-	24	41		
iS				N	E	-	28	50	
iSS				N		-	31	40	
M				N		-	38	0	
M				N		-	39	0	
68	13th	✓ eP		E	18	56	45	Santa Cruz Island Region	
		iS		E	19	3	52		
		iSS		E	-	7	32		
		M		E	-	18	22		

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
69	22nd	e		E	4	48	24	Bismark Sea	
		i	V		-	54	28		
		i		N		-	54		32
		M			E	-	57		10
		M		N		-	57		26
		M	V		5	0	13		
70	25th	iP	V		9	41	10	Molucca Passage	
		i		N	-	41	20		
		iPP	V			-	42		35
		iS		N	E	-	46		42
		i	V			-	49		15
		iSS		N		-	49		41
		M		E	-	53	49		
71	25th	iPP	V		20	15	17	S.W. of Macquarie Islands	
		iS		N	-	19	37		
		iS			E	-	19		40
		iSS	V	N	E	-	22		33
		M			E	-	23		54
		M		N		-	24		45
		M	V			-	24		50
		M		N	-	25	32		
72	26th	i		N	7	36	18	New Hebrides Islands	
		iS			E	-	36		32
		i		N		-	40		49
		M		N		-	47		51
		M	V			-	51		54
		M		E	-	53	0		
73	30th	i			15	54	15		
		i		N	-	54	41		
		i			E	-	55		8
		i		N		16	0		28
		i			E	-	0		50
		i		N		-	1		41
		M		N		-	6		57
		M	V		-	7	5		
		M		E	-	7	48		

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

1st (2) 6th (4) 13th (1) 14th (1) 18th (1) 25th (1)  
 26th (1) 29th (1) 30th (1)

NOVEMBER									
74	1st	iP	V		15	40	31	Off coast of Western New Guinea	
		iPPP	V	N	-	42	27		
		iS	V	N	E	-	46		24
		iSS		N		-	50		20
		M			E	-	53		52
		M		N		-	55		05
		M	V		-	58	15		
75	1st	iP	V		17	59	34	North of Western New Guinea	
		iPPP		N	18	01	10		
		iS		N		-	05		21
		i			E	-	05		34
		iSS			E	-	08		31
		M			E	-	12		51
		M		N		-	14		04
		M	V		-	17	15		

3.

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
76	2nd	✓ iP	V	N		14	51	29	South of Sumbawa
		iPP	V		E	-	51	43	
		i		N		-	51	56	
		i	V			-	52	45	
		iS	V	N	E	-	55	39	
		M	V			15	0	32	
		M		N		-	1	12	
		M			E	-	1	32	
		M	V		E	-	10	07	
		M		N		-	10	37	
					-	10	42		
77	7th	✓ iP	V	N	E	16	8	6	<del>Molou Sea</del> Flores Sea
		iPP	V		E	-	8	56	
		iS		N	E	-	12	36	
		iS	V			-	12	39	
		M			E	-	14	28	
		M	V			-	14	53	
		M		N		-	14	57	
78	11th	✓ iP	V			16	18	47	Santa Cruz Islands
		iPP	V		E	-	20	47	
		iPPP	V			-	21	48	
		iS	V	N	E	-	25	56	
		i		N		-	26	30	
		i			E	-	27	25	
		iSS	V		E	-	29	34	
		i	V			-	30	34	
		i		N		-	30	50	
		iSSS		N	E	-	31	16	
		M			E	-	38	11	
		M	V			-	38	16	
M		N		-	38	49			
M	V			-	41	21			
79	16th	✓ iP			E	7	32	20	Easter Island Region
		iPP			E	-	36	41	
		iS			E	-	44	25	
		iSS			E	-	51	14	
		i	V			-	58	00	
		i	V			8	04	59	
M	V			-	10	18			
80	16th	✓ iP	V			21	24	40	
		iPPP			E	-	26	17	
		i		N	E	-	27	39	
		i	V			-	27	50	
		iS	V		E	-	30	35	
		i	V			-	31	36	
		iSS		N		-	33	39	
		M			E	-	36	24	
		M			E	-	39	05	
M	V			-	39	20			
81	27th	✓ eP	V			16	59	38	Mariana Islands
		eS			E	17	07	10	
		i		N		-	07	24	
		i		N		-	08	57	
		iSS			E	-	10	50	
		M		N		-	19	36	
		M			E	-	20	14	
M	V			-	22	33			

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
82	29th ✓	iP	V			19	15	33	New Hebrides Islands
		i	V			-	17	31	
		iS		N	E	-	22	39	
		i		N		-	24	11	
		iSS			E	-	26	35	
		i	V			-	26	40	
		M			E	-	33	53	
		M		N		-	34	24	
		M	V		E	-	36	18	

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

2nd (1) 3rd (3) 4th (1) 10th (2) 11th (4) 14th (1) 15th (2)  
 18th (1) 19th (2) 20th (2) 24th (1) 26th (1) 28th (1) 30th (1)

DECEMBER

83	4th	i		N		10	44	39	New Britain Island
		i		N		-	48	16	
		i	V			-	48	21	
		i		N		-	48	38	
		iSS	V	N		-	51	10	
		M	V			11	00	19	
		M		N			01	00	
84	4th ✓	iP	V	N		16	50	54	Samoa Islands Region
		iS		N		-	59	45	
		i		N		17	01	09	
		i		N		-	07	46	
		M		N		-	15	19	
		M	V			-	20	26	
85	4th	i	V	N		20	28	24	
		iS		N		-	32	20	
		M	V			-	34	15	
		M		N		-	34	50	
86	7th ✓	iP	V	N	E	14	13	35	
		iPP	V			-	15	04	
		iPPP	V	N		-	15	50	
		i		N		-	16	30	
		i			E	-	18	21	
		i	V			-	18	43	
		iS	V	N		-	19	41	
		iSS	V		E	-	21	42	
		i			E	-	22	45	
		M			E	-	24	30	
		M		N		-	24	51	
		M	V			-	29	25	
87	8th ✓	iP	V		E	18	29	14	Tonga Islands Region
		i	V		E	-	29	35	
		i		N		-	31	31	
		iPP	V			-	31	45	
		iPPP		N		-	33	34	
		iS			E	-	38	35	
		i		N		-	45	34	
		i			E	-	45	54	
		M		N		-	53	04	
		M		N		-	55	43	
		M	V			-	55	46	

5.

No.	Date	Phase	Component		Time			Remarks	
					h.	m.	s.		
88	8th	✓ iP		N	E	21	40	55	Salta-Santiago Border
		iPP	V			-	46	58	
		iS			E	-	53	54	
		i		N		-	55	35	
		i			E	-	55	41	
		i			E	-	57	53	
		i	V			-	58	52	
		iSS	V		E	22	02	56	
		iSSS		N	E	-	07	20	
		M			E	-	19	00	
		M	V			-	29	28	
M		N		-	31	38			
89	12th	✓ iP	V	N	E	10	16	55	New Britain
		i	V	N	E	-	17	25	
		iPPP	V	N	E	-	19	15	
		iS		N	E	-	23	26	
		i	V			-	23	46	
		iSS	V	N	E	-	26	45	
		iSSS			E	-	28	30	
		M		N		-	33	28	
		M			E	-	33	33	
		M	V			-	34	55	
90	17th	✓ iP		N	E	11	06	43	Celebes Sea
		i	V			-	10	41	
		i		N		-	10	45	
		iS		N	E	-	11	30	
		iSS			E	-	14	34	
		i	V			-	14	45	
		M	V			-	16	31	
M			E	-	18	20			
91	19th	✓ iP	V			13	04	30	Solomon Islands
		iPPP			E	-	06	50	
		e	V			-	06	53	
		iS			E	-	11	12	
		i		N	E	-	11	31	
iSS	V	N		-	14	16			
92	20th	iS		N	E	18	35	09	Balleny Islands Region
		iSS		N	E	-	38	21	
		M			E	-	39	17	
		M		N		-	39	25	
M	V			-	41	00			
93	21st	✓ iP	V	N		0	49	19	Near South Coast of Java
		i	V			-	49	27	
		i		N		-	49	39	
		iPP	V	N	E	-	49	44	
		i		N		-	50	15	
		iS	V	N	E	-	53	24	
		M			E	-	57	15	
		M	V			-	58	36	
M		N		1	00	00			
94	21st	✓ iP			E	8	55	59	Fox Islands, Aleutian Islands
		e	V			9	01	39	
		e	V			-	03	11	
		iS		N	E	-	09	04	
		i		N		-	11	55	
		i		N		-	13	19	
		iSS		N	E	-	15	19	
		M	V			-	39	32	
		M			E	-	39	48	
M		N		-	42	36			

No.	Date	Phase	Component			Time			Remarks
						h.	m.	s.	
95	22nd ✓	iP	V		E	1	01	10	Loyalty Islands Region
		iPP			E	-	03	07	
		iPPP	V		E	-	04	08	
		iS		N	E	-	08	15	
		iSS		N	E	-	11	50	
		i		N		-	14	30	
		L		N		-	15	21	
96	22nd ✓	iP	V	N		2	04	55	Near South coast of Java
		iPP	V	N		-	05	39	
		iS	V	N	E	-	09	06	
		M		N		-	13	06	
		M	V			-	13	26	
97	26th ✓	eP			E	22	38	50	Komandorskie Islands
		iS		N	E	-	50	05	
		i	V			-	51	35	
		iSS			E	-	56	45	
		iSSS			E	23	00	54	
		M	V			-	25	51	
		M		N		-	26	00	
M			E	-	29	11			
98	27th ✓	eP			E	14	09	31	Near North coast of New Guinea
		ePPP	V			-	11	20	
		iS			E	-	15	19	
		M	V		E	-	26	10	
99	29th ✓	iP	V		E	14	57	18	Kermadec Islands Region
		i	V			-	57	44	
		iPP			E	15	00	47	
		iS	V		E	-	05	07	
		i		N		-	07	06	
		iSS			E	-	09	25	
		M	V			-	26	44	
		M			E	-	26	51	
M		N		-	27	25			
100	30th ✓	iP	V		E	18	24	26	New Britain
		iPP	V		E	-	26	20	
		iPPP	V	N	E	-	26	49	
		iS		N	E	-	31	06	
		i		N	E	-	31	30	
		iSS	V	N	E	-	34	15	
		M	V			-	39	22	
		M			E	-	39	55	
M		N		-	41	00			

Tremors and undecipherable disturbances were recorded:-

By instrument V, N, E on:-

1st (3) 2nd (1) 5th (1) 6th (1) 10th (1) 18th (1) 21st (2)  
 22nd (2) 23rd (1) 24th (1) 25th (1) 27th (1) 31st (3)