



PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for January - March 1957

Instrument Columbia-Lamont long period seismograph.
Milne-Shaw no. 27
Symbol A
M
Component Vertical
North - South

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
<u>JANUARY 1957</u>								
1. Jan.	2	A	e	1	27	39	.20	Fox Islands Aleutian Islands. Two Quakes from same area over- lapped 2nd movement and each other.
		A	e	-	28	50	.20	
		A	M	-	36	27	.31	
		A	i	2	37	48	.24	
		A	i	-	44	18	.20	
		A	iSSS	-	56	13	.36	
		A	M	3	14	38	1.30	
		A	M	-	18	21	1.40	
A	M	-	21	40	1.49			
2. Jan.	3	A	iP	12	59	23	.22	Southern Manchuria Deep Seated. Amp. not visible.
		A	i	13	2	29	.24	
		M	i	-	8	24	.22	
		A	i	-	8	43	.28	
		A	i	-	11	04	.30	
		A	i	-	12	56	.10	
		M	e	-	13	30	.21	
A	e	-	20	46	.10			
3. Jan.	7	A	eP	18	50	48	.15	
		A	i	-	51	09	.40	
		A	iS	-	51	18	.52	
		A	i	-	51	29	1.50	
		A	i	-	51	31	1.60	
		A	i	-	52	07	2.25	
		A	M	-	52	13	2.48	
A	M	-	53	19	.06			
4. Jan.	8	A	e	5	38	08	.25	Off West Coast of Sumatra.
		A	i	-	42	45	.11	
5. Jan.	9	A	e	6	36	33	.77	New Britain Area.
		A	M	-	40	51	.09	
6. Jan.	22	A	iP	12	40	59	.10	Amp. not visible. Santa Cruz Islands.
		A	i	-	48	10	.19	
		A	e	-	52	7	.61	
		A	i	-	58	13	.10	
		A	M	13	1	48	.15	
7. Jan.	24	A	eP	1	18	53	.21	Near east Coast of New Guinea. Deep Seated.
		A	i	-	20	12	.15	
		A	i	-	23	44	.16	
		M	i	-	24	18	.51	
		A	i	-	24	23	.39	
		A	i	-	26	53	.51	
		A	i	-	30	08	.15	
		M	i	-	31	17	.65	
		A	i	-	34	13	1.35	
		A	i	-	34	54	.30	
		M	i	-	35	07	1.85	
		A	i	-	35	08		

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks.
				h.	m.	s.		
8.	Jan. 24	A	iP	19	35	34	.19	Tonga Islands.
		A	eS	-	44	07	.10	
		A	e	20	0	18	.15	
		A	M	-	2	48	.44	
		A	M	-	6	39	.60	
9.	Jan. 30	A	eP	15	39	36	.07	Tonga Islands.
		A	i	-	48	16	.16	
		A	e	16	3	40	.10	
		A	M	-	8	17	.76	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd, 9th, 10th, 14th, 19th (2), 20th, 22nd, 23rd, 24th (2), 25th (3), 30th (2).

By instrument "M" on:- 2nd (3), 8th, 9th, 16th, 22nd, 29th.

FEBRUARY 1957									
No.	Date	Inst.	Phase	h.	m.	s.	Amp. cms	Remarks.	
10.	Feb. 2	A	i	12	1	40	.15	Loyalty Islands Region.	
		A	e	-	5	7	.15		
		A	i	-	8	34	.15		
		A	M	-	14	14	1.47		
		A	M	-	16	55	1.42		
11.	Feb. 9	A	i	2	1	57	.20	Near Coast of New Guinea.	
		A	e	-	6	17	.10		
		A	e	-	11	48	.15		
		A	i	-	16	15	.51		
		A	M	-	17	53	.75		
12.	Feb. 9	A	eP	13	38	28	.25	Off Coast of New Zealand (Deep Seated)	
		A	i	-	39	14	.19		
		A	iS	-	45	51	.28		
		A	i	-	50	37	.21		
		A	i	-	52	21	.25		
		A	i	-	54	48	.35		
13.	Feb. 10	A	iP	22	40	23	.43	Mindanao foreshock. Amp. not visible.	
		A	i	-	40	55	.35		
		A	i	-	41	59	.16		
		M	i	-	46	50	.35		
		A	i	-	46	55	.50		
		A	i	-	47	15	.50		
		A	i	-	52	32	.50		
14.	Feb. 10	A	iP	22	59	1		Amp. not visible. Mindanao.	
		A	i	23	0	42	1.44		
		A	i	-	4	44	1.85		
		M	M	-	5	27	.56		
		A	i	-	6	2			Amp. not visible.
		A	i	-	9	15	.62		
		A	M	-	14	50	2.27		
		A	M	-	21	33	2.65		
		A	M	-	23	24	2.66		
15.	Feb. 11	A	iP	1	22	50	.75	Mindanao aftershock.	
		A	i	-	24	56	.46		
		A	i	-	28	41	.60		
		M	i	-	29	10	.37		
		A	i	-	32	35	.74		
		M	i	-	35	53	.23		
		A	M	-	43	6	2.95		
		A	M	-	45	52	2.40		

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
16.	Feb. 13	A	iP	0	37	53	.59	Mindanao aftershock
		A	iS	-	44	20	.40	
		A	iSS	-	47	50	.24	
		A	LR	-	49	55	.25	
		A	M	1	1	29	.78	
		A	M	-	3	53	.75	
17	Feb. 20	A	iP	22	5	50	.35	Near Coast of Sumatra.
		A	iPP	-	7	17	.25	
		A	i	-	14	44	.25	
		A	eLR	-	16	12	.38	
		A	M	-	19	5	.35	
18	Feb. 23	A	iP	20	35	50	.17	Formosa.
		A	i	-	35	56	1.63	
		A	i	-	43	40	.40	
		A	i	-	44	8	.35	
		A	eLR	-	52	20	.26	
		A	M	-	56	39	1.55	
		A	M	-	59	11	1.37	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd, 5th (3), 6th (2), 8th, 9th (2), 11th, 16th, 18th (2), 19th (2), 21st, 22nd, 23rd, 25th (2).

By instrument "M" on:- 2nd, 13th, 23rd.

MARCH 1957									
19	March	2	A	e	1	50	20	.30	New Britain.
				i	-	54	16	.66	
				M	2	6	52	.79	
20	March	2	A	eP	8	18	22	.30	New Britain.
				PP	-	20	8	.28	
				S	-	24	43	.17	
				i	-	27	37	.44	
				i	-	27	51	.95	
				e	-	33	19	.50	
				M	-	37	25	1.10	
21	March	8	A	i	12	40	43	.20	Eastern Greece.
				eLR	-	13	26	.21	
				M	-	20	41	.60	
				M	-	26	17	.58	
22	March	9	A	iP	14	36	32	.21	Aleutian Islands.
				i	-	36	47	.30	
				i	-	36	53	.71	
				i	-	37	07	.14	
				iPP	-	41	17	1.50	
				i	-	41	20	.20	
				iS	-	47	48	1.75	
				i	-	50	34	3.75	
				i	15	3		1.00	
				M	-	18	38	11.00	
				M	-	25		3.12	
				M	-	26		2.41	
				M	-	33		2.52	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
23	March 10	A	i	3	24	37	.12	Aleutian Islands.
		A	i	-	34	35	.34	
		A	M	4	0	49	.90	
		A	M	-	2	33	.81	
24	March 11	A	iP	3	26	46	.15	Aleutian Islands.
		A	i	-	30	43	.20	
		A	i	-	31	18	.48	
		A	i	-	36	50	.25	
		A	i	-	40	47	.73	
		A	iSS	-	45	37	.50	
		A	i	-	54	41	.86	
		A	eLR	-	59	32	.61	
		A	M	4	4	47	1.70	
A	M	-	7	21	1.75			
25	March 11	A	P	10	13	3		Amp. not visible. Fox Islands Aleutians.
		A	i	-	16	35	.24	
		A	iPP	-	17	26	.55	
		A	i	-	23	52	.36	
		A	i	-	26	40	.36	
		A	i	-	32	57	.32	
		A	M	-	56	55	3.92	
		A	M	-	57	19	4.35	
26	March 11	A	iP	15	9	13	.19	Aleutian Islands.
		A	i	-	12	52	.24	
		A	ePP	-	13	21	.29	
		A	i	-	22	19	.54	
		A	i	-	28	14	.70	
		A	M	-	51	22	2.60	
A	M	-	56	57	2.80			
27	March 12	A	i	8	12	33	.40	Aleutian Islands.
		A	i	-	20	15	.24	
		A	M	-	26	44	.65	
		A	M	-	37	20	1.01	
28	March 12	A	iP	11	58	54	.20	Aleutian Islands.
		A	i	12	3	32	.48	
		A	iS	-	9	32	.32	
		A	i	-	16	54	.58	
		A	i	-	17	46	.60	
		A	i	-	20	33	.47	
		A	i	-	32	01		
		A	M	-	39	33	4.65	
A	M	-	39	57	5.33			
29	March 13	A	i	16	9	7		Amp. not visible. Aleutian Islands.
		A	e	-	14	54	.24	
		A	i	-	23	31	.30	
		A	i	-	28	14	.30	
		A	M	-	38	29	.95	
		A	M	-	42	41	.90	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
30	March 14	A	iP	15	1	47	.18	Aleutian Islands.
		A	i	-	5	12	.31	
		A	iPP	-	5	48	.32	
		A	i	-	10	52	.61	
		M	iS	-	12	23	.31	
		A	iS	-	12	28	.41	
		A	i	-	15	18	1.05	
		M	i	-	15	22	.17	
		A	i	-	20	30	.46	
		A	SS	-	20	44	1.10	
		M	M	-	42	35	5.77	
		M	M	-	46	40	.62	
M	M	-	48	14	.62			
A	M	-	49	36	6.60			
31	March 15	A	eP	3	6	44	.05	Aleutian Islands.
		A	e	-	17	17	.10	
		A	i	-	20	28	.16	
		A	M	-	49	35	.70	
32	March 16	A	eP	2	48	4		Amp. not visible. Aleutian Islands.
		A	i	-	48	10	.46	
		A	iPP	-	52	18	.46	
		A	e	-	58	43	.26	
		M	eS	-	58	50	.10	
		A	i	3	1	11	.85	
		M	e	-	6	49	.16	
		A	iSS	-	7	7	1.86	
		M	M	-	28	50	.33	
		A	M	-	30	42	5.30	
M	M	-	32	20	.40			
A	M	-	36	7	5.81			
33	March 17	A	i	23	13	14	.15	Aleutian Islands.
		A	M	-	41	25	.60	
34	March 18	A	iP	21	22	20	.21	New Britain.
		M	i	-	28	45	.07	
		A	i	-	28	47	.25	
		A	i	-	31	46	.29	
		M	i	-	31	53	.11	
		M	M	-	37	55	.50	
		M	M	-	38	17	.66	
		A	M	-	39	11	1.15	
A	M	-	40	17	1.27			
35	March 19	A	eP	13	5	3		Amp. not visible. Aleutian Islands.
		A	i	-	9	10	.17	
		A	i	-	18	37	.40	
		A	i	-	19	8	.60	
		A	i	-	24	25	.55	
		A	M	-	44	37	1.65	
		A	M	-	46	30	1.77	
36	March 21	A	eP	16	43	6		Amp. not visible. Near Nth. Coast of New Guinea. Amp. not visible. Amp. not visible. Amp. not visible.
		A	PP	-	44	39	.26	
		A	iS	-	49	22	.15	
		A	i	-	51	58		
		M	i	-	52	27	.20	
		A	i	-	56	57		
		M	i	-	57	0		
		M	M	-	57	44	2.00	
		A	M	-	58	33	2.45	
		A	M	-	58	51	1.10	
A	M	17	1	12	3.15			

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
37	March 22	A	i	14	35	37	.20	Aleutian Islands. Amp. not visible.
		A	i	-	40	0		
		A	i	-	49	52	.45	
		A	i	-	56	28	.81	
		A	M	-	18	11	3.85	
		A	M	-	20	17	4.15	
		A	M	-	20	32	4.03	
38	March 23	A	iP	5	18	40	.63	Banda Sea Deep Seated.
		M	eP	-	18	40	.10	
		A	ipP	-	19	08	1.15	
		M	i	-	19	27	.29	
		M	i	-	19	39	.45	
		A	i	-	19	58	1.00	
		M	iS	-	23	28	.50	
		A	iS	-	23	30	1.05	
		A	i	-	24	39	4.80	
		A	i	-	29	14	2.92	
39	March 29	A	iP	5	24	55	.12	Aleutian Islands.
		A	ipP	-	29	22	.25	
		A	i	-	38	37	.32	
		A	i	-	45	6	.34	
		A	M	6	5	18	2.25	
		A	M	-	9	29	3.25	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 5th (2), 10th (12^h - 19^h) Aleutian Movements, 13th (3), 16th, 17th, 18th (2), 22nd (2), 24th (2), 25th, 30th.

By instrument "M" on:- 2nd, 10th (2), 11th (3), 12th, 13th, 17th, 19th, 22nd, 24th, 29th.

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
46.	Apr.19	A	i	22	47	34	.37	Aleutian Islands.
		A	i	-	54	20	.40	
		A	e	23	12	16	.40	
		A	M	-	20	19	1.05	
47.	Apr.20	A	iP	12	38	12	.35	Near Coast of New Guinea.
		A	PP	-	39	45	.35	
		A	i	-	40	10	.62	
		M	iS	-	44	11	.10	
		A	iS	-	44	12	1.23	
		M	i	-	49	0	.30	
		A	e	-	50	10	.60	
		M	M	-	53	18	.80	
48.	Apr.24	A	i	19	28	56	.20	Turkey (foreshock).
		A	i	-	38	1	.60	
		A	M	20	10	55	1.70	
49.	Apr.25	A	i	2	44	25	.30	Near South Coast of Turkey.
		A	i	-	53	47	.51	
		A	M	3	23	20	1.50	
		A	M	-	26	25	1.31	
50.	Apr.25	A	iP	10	22	54	.25	Off Coast of New Guinea.
		A	i	-	31	34	.33	
		A	M	-	38	42	.85	
51.	Apr.28	A	iP	1	31	23	.55	Off Coast of Mindanao.
		A	i	-	31	43	.93	
		A	i	-	32	10	.24	
		A	PP	-	32	47	.34	
		A	eS	-	37	24	.33	
		A	i	-	40	31	.90	
		A	M	-	46	46	.80	
52.	Apr.28	A	i	10	45	19	.30	Off Coast of Mindanao.
		A	i	-	50	56	.24	
		A	i	-	54	34	.40	
		A	M	11	2	34	1.30	
		A	M	-	3	27	1.55	
53.	Apr.29	A	iP	21	1	23	.50	Off South Coast of Java
		M	iP	-	1	25	.15	
		A	PP	-	1	55	.55	
		M	i	-	5	41	.15	
		A	i	-	5	49	.30	
		M	i	-	6	40	.35	
		A	i	-	6	44	.85	
		A	M	-	9	22	2.40	
		M	M	-	11	30	.90	
M	M	-	13	10	.84			

Tremors and undecipherable disturbance were recorded:-

By instrument "A" on:- 1st (1), 5th (1), 11th (2), 13th (2), 15th (2), 20th (2), 21st (1), and 26th (1).

By instrument "M" on:- 5th (1), 10th (1), 14th (1), 19th (1), 24th (2), 25th (2), and 28th (2).

No.	Date.	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>MAY 1957</u>								
54.	May 2	A	e	10	56	34	.40	South Pacific Ocean.
		A	e	11	8	15	.30	
		A	e	-	11	14	.55	
		A	M	-	12	30	.75	
55.	May 2	A	i	21	41	8	.35	Flores Sea. Deep Seated.
		A	i	-	43	39	.80	
		M	i	-	43	44	.11	
		M	i	-	43	52	.22	
		A	i	-	44	46	.45	
		M	i	-	44	54	.10	
		M	i	-	47	11	.21	
		A	i	-	47	20	.75	
56.	May 4	A	iP	10	12	36	.25	Western New Guinea.
		A	i	-	13	41	.55	
		A	i	-	18	21	.50	
		A	i	-	19	48	.45	
		M	i	-	19	49	.28	
		M	i	-	21	13	.35	
		M	i	-	23	52	1.48	
		A	i	-	27	7	2.30	
		M	M	-	27	18	1.50	
		A	M	-	27	20	6.25	
57.	May 12	A	i	5	11	36	.38	Sandwich Islands Regions.
		A	e	-	23	55	.21	
58.	May 12	A	iP	11	34	28	.43	Near South Coast of Java. Amp. not visible.
		M	iP	-	34	29	.10	
		A	PP	-	35	4	.60	
		M	i	-	35	6	.23	
		M	i	-	38	56	.35	
		A	iS	-	39	0		
		M	PP	-	39	24	.30	
		M	i	-	42	35	.80	
		A	M	-	42	41	7.00	
		A	M	-	44	0	5.60	
		M	M	-	44	5	2.90	
		M	M	-	46	21	2.65	
		A	M	-	49	41	6.05	
		A	M	12	0	55	7.70	
59.	May 21	A	iP	1	22	2		Amp. not visible. Mariana Islands. Deep Seated.
		A	i	-	22	30	.45	
		A	i	-	22	41	1.40	
		A	i	-	24	10	.84	
		A	i	-	25	49	.70	
		A	iS	-	30	18	1.10	
		A	i	-	34	47	.77	
		A	i	-	37	20	.60	
		A	i	-	40	33	.80	
		A	i	-	40	54	1.10	
		A	i	-	41	23	1.00	
60.	May 26	A	e	6	48	10	.28	Bolu Province Turkey.
		A	i	-	52	21	.52	
		A	i	-	54	55	.50	
		M	e	7	1	42	.16	
		A	i	-	1	50	.40	
		A	i	-	2	32	1.10	
		M	i	-	7	5	.30	
		M	i	-	17	31	.20	
		M	i	-	22	52	.35	
		A	M	-	31	14	8.90	

No.	Date	Inst.	Phase	Time			Amp.	Remarks	
				G.M.T.					
				h.	m.	s.	cms		
60	May 26	A	M	7	32	16	8.25		
		M	M	-	33	35	.75		
		M	M	-	33	50	.75		
		A	M	-	39	46	>9.10		
		A	M	-	46	45	8.55		
Tremors and undecipherable disturbance were recorded:-									
By instrument "A" on:- 8th (1), 18th (1), 22nd (1), 24th (2), 26th (1), and 27th (1).									
By instrument "M" on:- 2nd (1), 8th (1), 21st (1), and 26th (1).									
<u>JUNE 1957</u>									
61.	June 8	A	eS	22	45	51	.25	Loyalty Islands.	
		A	i	-	52	47	.35		
		A	M	-	57	56	.56		
62.	June 10	A	M	1	11	30	2.40	Sumbawa Islands. (Quake began as alterations were being made in cellar).	
		A	M	-	16	39	2.60		
63.	June 11	A	iP	14	59	17	1.10	Kermadec Islands. Deep Seated.	
		A	PP	-	59	44	.60		
		A	PP	15	1	25	.35		
		A	ePPP	-	2	51	.27		
		M	i	-	7	0	.16		
		A	S	-	7	3			Amp. not visible.
		M	i	-	9	20	.21		
		M	e	-	13	46	.15		
		M	e	-	14	14	.20		
		M	M	-	22	0	.46		
A	M	-	22	11	6.55				
A	M	-	22	25	5.85				
64.	June 11	A	iP	18	58	24	.34	Near Coast of Luzon. (Philippines)	
		A	i	-	58	40	.60		
		A	i	19	0	21	.45		
		A	iS	-	5	24	.90		
		M	i	-	5	25	.35		
		M	i	-	9	5	.25		
		A	M	-	16	20	2.05		
		A	M	-	17	53	1.90		
65.	June 13	A	eP	10	54	46	.25	Andreanoff Islands. Aleutians.	
		A	i	11	5	24	.30		
		A	i	-	13	40	.40		
		A	M	-	34	39	1.10		
		A	M	-	34	50	1.10		
66.	June 15	A	e	1	0	52	.20	South-West Indian Ocean.	
		A	e	-	7	16	.21		
67.	June 18	A	i	2	32	30	.35	Gulf of Martaban. (Burma).	
		A	e	-	36	36	.50		
		A	M	-	43	13	.88		
68.	June 18	A	i	15	8	34	.45	Burma aftershock.	
		A	M	-	14	29	1.10		
		A	M	-	19	21	1.85		
69.	June 18	A	i	18	6	44	.70	Loyalty Islands.	
		A	iS	-	11	49	.64		
		A	i	-	15	23	1.45		
		A	i	-	19	26	.70		
		A	M	-	24	5	7.90		

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
70.	June 19	A	i	0	0	47	.45	
		A	i	-	4	8	1.70	
71.	June 22	M	iP	23	57	34	.26	Near North Coast of New Guinea.
		A	iP	-	57	35	1.65	
		A	i	-	57	49	2.35	
		A	i	-	58	5	.80	
		A	PP	-	58	51	1.15	
	June 23	M	PP	-	59	0	.44	Amp. not visible.
		M	i	0	3	22	.50	
		A	iS	-	3	23	3.20	
		M	i	-	3	23	1.05	
		A	i	-	7	49		
		M	M	-	9	15	3.05	
M	M	-	14	58	>4.30			
72.	June 27	A	iP	0	22	27	.90	North-East of Lake Baikal U.S.S.R.
		M	i	-	22	56	.37	
		A	i	-	25	51	.70	
		A	i	-	32	30	.70	
		M	iS	-	33	31	.40	
		A	i	-	39	21	1.25	
		A	M	-	59	58	6.80	
		M	M	1	0	49	1.50	
M	M	-	2	48	1.42			

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 6th (1), 8th (4), 14 (1), 15th (1),
17th (1), and 22nd (1).

By instrument "M" on:- 8th (3), 13th (1), and 18th (1).

Perth Observatory.

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PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for July 1957 - September 1957

Instrument Columbia-Lamont long period seismograph. Milne-Shaw no.27
Symbol A M
Component Vertical North - South

No.	Date	Inst.	Phase	Time.			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>JULY 1957</u>								
73.	July 1	A	i	19	55	20	.35	Indo-Burma Border.
		A	M	20	2	55	1.60	
74.	July 2	A	iP	0	55	24	1.05	Northern Iran. Amp. not visible.
		A	PP	-	59	0		
		A	iS	1	7	24	.83	
		A	LR	-	25	2	1.40	
		A	M	-	35	55	1.37	
		A	M	-	42	53	2.00	
		A	M	-	45	51	2.20	
75.	July 7	A	iP	16	19	30	.26	Solomon Islands.
		A	i	-	26	2	.36	
		M	i	-	26	5	.20	
		A	i	-	29	19	.70	
		M	i	-	29	29	.28	
		A	i	-	35	38	.84	
		A	M	-	37	30	2.80	
		A	M	-	38	29	2.85	
76.	July 9	A	eP	10	3	45	.19	Near South Coast of Sumatra.
		A	PP	-	4	43	.22	
		A	i	-	9	25	.44	
		A	iScS	-	10	16	.39	
		A	i	-	11	23	.61	
		A	M	-	12	41	1.95	
77.	July 14	A	eP	6	33	37	.20	Longa Islands Regions. (Deep Seated).
		A	iPP	-	34	20	1.24	
		A	SP	-	34	39	.60	
		A	i	-	37	7	1.40	
		A	i	-	38	8	.80	
		M	i	-	41	5	.25	
		A	iS	-	41	6	1.15	
		M	i	-	42	32	.47	
		M	i	-	44	31	.34	
		A	SS	-	45	7	.60	
		M	i	-	46	23	.35	
		A	iSSS	-	47	50	.76	
		A	i	-	51	36	.90	
		M	i	-	56	34	.50	
78.	July 14	A	iP	8	20	31	.30	Kermadec Islands.
		A	i	-	20	39	.71	
		A	i	-	22	45	.35	
		A	iS	-	28	38	.40	
		A	SS	-	32	51	.47	
		A	eLR	-	37	19	.30	
		A	M	-	39	16	2.55	
		A	M	-	41	16	2.90	
		A	M	-	44	5	3.38	

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
79.	July 17	A	iP	11	19	14	1.03	Santa Cruz Islands.
		A	i	-	19	53	1.50	
		A	iS	-	26	30	1.05	
		A	i	-	30	6	1.10	
		A	i	-	30	25	1.15	
		A	M	-	38	19	2.95	
		A	M	-	39	29	2.17	
A	M	-	41	52	2.50			
80.	July 19	A	e	21	53	25		Amp. not visible. Northern New Guinea.
		A	i	-	57	31	.25	
		A	M	22	0	18	1.25	
81.	July 21	A	i	6	8	27	.20	Ballery Islands Regions.
		A	i	-	14	41	.25	
		A	eLR	-	17	54	.30	
		A	M	-	19	33	1.04	
82.	July 23	A	i	1	25	0	.32	Andreanoff Islands Aleutians.
		A	e	-	36	21	.25	
		A	M	-	45	17	.85	
83.	July 24	A	i	11	18	51	.36	New Hebrides Islands. Amp. not visible.
		A	iS	-	22	15	.36	
		A	iSS	-	26	58		
		M	i	-	28	54	.35	
		A	M	-	31	44	2.74	
		A	M	-	32	5	2.79	
		A	M	-	32	49	1.00	
A	M	-	33	58	2.80			
84.	July 28	A	iP'	8	59	46	.91	Guerrero Mexico.
		M	e	9	0	0	.21	
		A	i	-	3	5	2.10	
		A	i	-	13	41	1.60	
		A	i	-	17	52	4.90	
		M	i	-	23	18	.36	
		A	i	-	25	33	3.50	
		A	i	-	27	6	4.45	
		A	i	-	33	55	4.20	
		A	M	-	34	10	7.65	
		A	M	-	39	50	9.05	
		M	i	-	42	15	.35	
		A	M	-	49	8	4.75	
		M	e	-	54	21	.40	
M	M	10	0	10	.75			
M	M	-	3	6	1.10			
A	M	-	7	17	10.25			
85.	July 29	A	i	18	15	50	.43	?
		A	i	-	22	14	.64	
		A	M	-	27	7	1.51	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 4th (1), 5th (1), 7th (1), 10th (1),
12th (2), 13th (1), 18th (1), 19th (2),
20th (2), 21st (2), 22nd (1), 23rd (1),
24th (2), 25th (1), 26th (1), 27th (2),
and 31st (1).

By instrument "M" on:- 1st (1), 2nd (1), 9th (1), 14th (1),
17th (1), 19th (1), 20th (1), 23rd (2),
27th (1), and 29th (1).

No.	Date	Inst.	Phase	Time			Amp	Remarks	
				G.M.T.					
				h.	m.	s.	cms.		
86.	Aug. 4	A	e	0	48	54	.30	Near north coast of New Guinea.	
		A	iS	-	53	8	.35		
		M	i	-	54	56	.20		
		A	i	-	55	54	.45		
		A	i	-	56	9	.42		
		M	i	-	57	5	.35		
		A	LR	-	58	21	.83		
		M	e	1	0	4	.40		
		M	i	-	0	40	1.05		
		A	i	-	0	40	1.85		
		M	i	-	0	55			Amp. not visible.
		M	M	-	1	14	2.20		
A	M	-	4	16	7.40				
A	M	-	4	50	10.90				
87.	Aug. 4	A	i	21	28	17	.30	Prince Edward Islands Regions.	
		A	e	-	35	16	.20		
		A	i	-	37	52	.71		
88.	Aug. 9	A	iP	2	36	24	.59	New Guinea.	
		A	PP	-	37	51	.35		
		A	iS	-	42	8	.30		
		A	i	-	43	30	.32		
		M	i	-	44	40	.31		
		A	i	-	45	36	.65		
		A	i	-	46	24	.60		
		M	M	-	52	39	2.05		
		M	M	-	53	14	.61		
		A	M	-	55	28	2.90		
89.	Aug. 11	A	iP	21	47	9	.28	New Hebrides Islands.	
		A	e	-	54	24	.30		
		A	iSS	-	57	52	.45		
		A	e	22	2	23	.30		
		M	i	-	4	29	.21		
		A	M	-	7	14	2.50		
		M	M	-	8	31	.75		
90.	Aug. 15	A	i	21	2	44	.31	?	
		A	e	-	13	14	.55		
91.	Aug. 16	A	iP	12	6	4	.40	New-Britain Region.	
		A	iPP	-	7	54	.53		
		A	i	-	15	18	.47		
		A	e	-	19	14	.22		
		A	M	-	23	45	.70		
92.	Aug. 17	A	e	0	35	6	.19	?	
		A	M	-	49	32	.84		
93.	Aug. 18	A	iP	8	45	15	.49	Philippine Islands.	
		A	i	-	45	46	.39		
		A	i	-	51	44	.45		
		A	i	-	51	59			Amp. not visible.
		A	i	-	52	42	.95		
		A	M	9	2	9	2.80		
		A	M	-	7	19	2.32		
94.	Aug. 18	A	i	21	55	29	.30	Northern Kurile Islands.	
		A	i	22	26	24	.42		
		A	e	-	31	5	.30		
		A	M	-	32	24	.45		

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms.	Remarks	
				h.	m.	s.			
95.	Aug. 19	A	iP	11	43	19	.30	Solomon Islands. (foreshock).	
		A	i	"	45	6	.30		
		A	i	"	50	25	.30		
		A	i	"	53	36	.78		
		A	i	"	57	22	.60		
		M	i	"	58	45	.20		
		M	M	12	0	35	1.19		
		A	M	"	2	33	2.27		
A	M	"	4	15	2.25				
96.	Aug. 20	A	iP	6	35	45	.40	Solomon Islands. (foreshock).	
		A	i	"	37	32	.62		
		A	i	"	42	41	.45		
		A	iSS	"	46	2	.88		
		A	M	"	54	58	5.35		
		A	M	"	56	11	5.98		
97.	Aug. 20	A	iP	12	10	33	.25	Solomon Islands.	
		A	i	"	17	31	.75		
		A	i	"	20	51	.72		
		A	i	"	24	39	.65		
		A	M	"	28	9	3.10		
		A	M	"	30	10	3.70		
98.	Aug. 23	A	iP	2	8	29	.61	New Britain Region. (aftershock).	
		A	i	"	8	54	1.27		
		M	i	"	15	9	.30		
		A	iS	"	15	14	1.05		
		A	i	"	17	59	-		Amp. not visible.
		M	i	"	18	12	.33		
		M	M	"	24	50	.44		
		A	M	"	25	34	2.55		

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (1), 9th (1), 10th (1), 11th (1),
16th (1), 18th (1), 20th (2), 21st (3),
22nd (2), 23rd (1), and 26th (2).

By instrument "M" on:- 4th (1), 15th (1), 16th (2), 17th (1),
18th (1), and 26th (1).

SEPTEMBER 1957.

99.	Sept. 4	A	i	4	42	56	.49	South Indian Ocean. (Heavy Micros.)	
		M	i	"	44	14	.21		
		A	M	"	46	40	2.30		
		M	M	"	47	40	.49		
100.	Sept. 9	A	iP	0	17	54	.70	South Indian Ocean.	
		M	i	"	21	18	.38		
		A	i	"	21	20	.82		
		M	i	"	21	50	.56		
		A	i	"	21	53	.99		
		M	i	"	23	4	-		Amp. not visible.
		A	M	"	23	49	6.88		
		M	M	"	25	9	3.60		
A	M	"	25	58	6.55				
101.	Sept. 15	A	i	4	28	57	.30	Near North Coast of Java. (Deep Seated).	
		A	i	"	32	31	.29		
		A	i	"	33	48	.35		
		A	i	"	33	56	.80		
		A	i	"	38	36	.54		
102.	Sept. 15	A	iP	18	50	25	.40	Solomon Islands. (Deep Seated).	
		A	i	19	0	17	.39		
		A	i	"	4	10	.26		

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No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms.	
103.	Sept.28	M	e	14	29	19	.20	Fiji Islands. (Deep Seated).
		M	i	-	30	6	.28	
		M	iS	-	36	36	2.40	
		M	i	-	38	5	1.09	
		M	i	-	40	2	1.55	

Tremors and undecipherable disturbances were recorded:-

By instruments "A" on:-2nd (3), 3rd (1), 7th (1), and 14th (1).

By instrument "M" on:-15th (2), 25th (1), and 27th (1).

Instrument "A" was not recording from 7^h 40^m on 24th September until 3^h 3^m on 30th September, due to repairs to cellar.

PERTH OBSERVATORY.

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PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for October 1957 - December 1957

Instrument
Columbia-Lamont long
period seismograph.
Milne-Shaw No.27

Symbol
A
M

Component
Vertical
North - South

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>OCTOBER 1957</u>								
104	Oct. 4	A	i	5	47	28	.30	Near Coast of Venezuela.
		A	i	-	51	36	.20	
		A	i	6	30	40	.30	
		A	i	-	40	21	.26	
		A	i	-	46	54	.50	
		A	M	-	58	57	2.45	
105	Oct. 12	A	iP	19	2	21	1.14	Near South Coast of Java.
		M	iP	-	2	22	.16	
		A	iPP	-	2	52	.95	
		M	iPP	-	2	54	.19	
		A	iS	-	6	23	.25	
		A	i	-	6	31	.40	
		M	i	-	6	32	.20	
		M	i	-	6	41	.20	
		A	i	-	6	46	.90	
		M	i	-	8	0	.29	
		A	M	-	12	15	2.36	
106	Oct. 13	A	i	20	41	34	.26	Antarctic Ocean. S.W. of Macquarie Island.
		A	i	-	45	46	.30	
		A	e	-	48	39	.41	
		A	i	-	50	14	.65	
		M	i	-	50	14	.14	
		A	i	-	50	22	.53	
		M	i	-	50	50	.30	
		M	i	-	51	26	.35	
		A	M	-	52	20	3.95	
		M	M	-	52	24	.40	
107	Oct. 19	A	iP	18	38	36	.55	Near East Coast of Formosa.
		A	i	-	38	45	.85	
		A	i	-	49	29	.25	
		A	i	-	50	32	.35	
		A	i	-	56	31	.47	
		A	M	-	56	56	.75	
		A	i	-	59	20	.31	
		A	M	19	5	54	.90	
108	Oct. 24	A	iP	0	26	44	.54	New Hebrides Islands.
		A	i	-	28	38	.50	
		A	i	-	34	20	.31	
		A	e	-	37	35	.30	
		A	i	-	42	9	.61	
		A	M	-	43	10	4.41	
109	Oct. 26	A	iP	14	23	13	.25	Borneo.
		A	i	-	26	43	.42	
		A	iS	-	28	14	.36	
		A	i	-	29	48	.66	
		A	i	-	32	34	.57	
		A	M	-	36	40	2.05	
110	Oct. 29	A	eP	2	27	50	.18	Borneo Aftershock.
		A	eS	-	32	44	.17	
		A	M	-	40	21	.41	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd (2), 3rd (1), 5th (1), 10th (1),
13th (1), 20th (1), 21st (1), 23rd (1),
24th (3), 25th (2), 26th (2), 27th (1),
28th (1), and 31st (1).

By instrument "M" on:- 2nd (1), 4th (1), 5th (1), 10th (1),
19th (1), 21st (1), 24th (1), 25th (1),
26th (2), 27th (1), 29th (1), and 31st (2).

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>NOVEMBER 1957</u>								
111	Nov. 2	A	iP	18	39	24	.45	New Hebrides Islands.
		A	i	-	40	11	.35	
		A	i	-	47	6	.40	
		A	i	-	50	9	.41	
		M	i	-	50	9	.11	
		A	i	-	53	38	.49	
		M	i	-	55	19	.24	
		M	M	-	55	39	.35	
A	M	19	0	44	2.35			
A	M	-	1	36	2.79			
112	Nov. 10	A	iP	2	44	39	.58	Solomon Islands.
		A	iPP	-	46	25	.44	
		M	i	-	51	12	.24	
		A	iS	-	51	19	.75	
		A	ScS	-	54	24	1.40	
		M	i	-	54	24	.18	
		M	i	-	57	56	.32	
		A	i	-	58	36	.90	
		A	i	-	59	47	1.01	
		M	i	3	0	34	.36	
		A	M	-	4	32	6.50	
		M	M	-	5	39	1.31	
M	M	-	9	20	1.30			
A	M	-	10	55	6.75			
113	Nov. 10	A	iP	5	56	29	.35	Near NE Coast of New Guinea.
		A	iPP	-	57	53	.52	
		A	e	6	1	20	.20	
		A	i	-	3	18	.55	
		M	i	-	5	3	.14	
		A	i	-	8	24	.84	
		M	i	-	10	7	.47	
		M	i	-	10	46	1.00	
		M	M	-	14	35	1.15	
A	M	-	14	36	6.52			
A	M	-	15	25	3.25			
114	Nov. 13	A	iP	17	32	11	.65	Kemadec Islands Region. Amp. not visible.
		A	i	-	32	33	.71	
		A	i	-	35	42	.64	
		A	iS	-	39	50	.31	
		A	i	-	44	0		
		A	e	-	46	6	1.15	
		A	i	-	49	6	1.96	
		M	i	-	49	15	.10	
		M	M	-	51	14	3.54	
		M	M	-	54	31	.39	
115	Nov. 20	A	e	13	9	30	.19	Unimak Island Aleutians.
		A	e	-	25	39	.25	
		A	M	-	37	0	.54	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
116	Nov.25	A	iP	22	41	15	.59	Near East Coast of Borneo Amp. not visible
		A	i	-	41	59		
		A	i	-	43	57	.25	
		A	i	-	44	43	.35	
		A	i	-	45	42	.31	
		A	iS	-	46	12	.51	
		A	i	-	47	47	.78	
		A	M	-	53	52	1.75	
		A	M	-	54	39	2.10	
117	Nov.26	A	iP	5	16	14	.90	Near East Coast of Borneo
		A	i	-	17	4	.45	
		A	i	-	19	4	.35	
		A	i	-	21	9	.37	
		A	i	-	22	9	.70	
		A	i	-	22	41	1.00	
		A	M	-	29	35	1.90	
118	Nov.28	A	iP	20	59	11	.50	New Hebrides Islands.
		A	i	21	1	7	.70	
		A	i	-	10	19	.41	
		A	i	-	14	42	.53	
		A	M	-	20	29	2.87	
119	Nov.29	A	iP	17	47	57	.34	South Indian Ocean.
		A	iS	-	51	28	.39	
		A	M	-	55	59	.50	
120	Nov.29	A	iP	22	35	15	.50	Southern Bolivia. (Deep Seated)
		A	iP	-	28	30	.40	
		A	i	-	39	30	.54	
		A	iPP	-	40	29	1.70	
		M	i	-	40	34	.20	
		A	i	-	41	30	1.24	
		A	i	-	41	53	2.07	
		M	i	-	47	3	.34	
		A	i	-	51	42	.85	
		A	i	23	22	12	2.72	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (2), 7th (1), 10th (1), 12th (2),
13th (1), 15th (1), 17th (1), 21st (2),
22nd (1), 26th (1), and 30th (1).

By instrument "M" on:- 3rd (2), 10th (1), 22nd (1), 25th (1),
26th (1), 28th (1), 29th (1), and 30th (1).

- DECEMBER 1957 -

121	Dec. 4	A	iP	3	49	55	.26	Outer Mongolia. Amp. not visible.
		M	i	-	50	6	.30	
		M	i	-	52	54		
		A	iPP	-	53	3	2.20	
		A	i	-	54	46	2.60	
		A	iS	-	59	50	1.35	
		M	iS	-	59	51	.81	
		A	i	4	0	0	4.02	
		A	M	-	11	16	8.29	
		A	M	-	13	42	10.20	
		A	M	-	14	52	10.25	
		M	M	-	17	30	4.60	
		M	M	-	19	39	5.02	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
122	Dec.10	A	iP	14	44	11	.42	Solomon Islands.
		A	iPP	-	46	3	1.49	
		A	iPPP	-	46	46	1.09	
		M	iS	-	50	48	.61	
		A	iS	-	50	51	1.35	
		A	i	-	53	48	1.75	
		M	iSS	-	54	0	.45	
		A	iSS	-	54	2	5.45	
		A	i	-	57	15	.91	
		M	M	15	0	34	1.66	
		M	M	-	1	55	10.70	
M	M	-	2	49	2.40			
M	M	-	4	46	10.70			
M	M	-	6	39	2.40			
123	Dec.13	A	i	2	2	9	.25	Iran.
		A	i	-	8	48	.31	
		A	i	-	15	36	.26	
		A	M	-	34	15	.46	
		A	M	-	38	30	.84	
124	Dec.17	A	e	5	25	23	.09	Near East Coast of Kamchatha. Amp. not visible.
		A	i	-	34	11	.25	
		A	M	6	10	0		
		A	M	-	11	49	.76	
125	Dec.17	M	iP	13	59	8	.30	Santa Cruz Islands.
		A	iP	-	59	10	10.48	
		A	iPP	14	1	8	3.85	
		M	iS	-	6	16	2.27	
		A	iS	-	6	19	3.37	
		A	M	-	12	27	10.95	
		A	M	-	14	36	5.03	
		M	M	-	15	32	5.32	
		M	M	-	17	54	7.32	
		A	M	-	18	32	6.75	
M	M	-	18	49	8.70			
126	Dec.31	A	iP	14	36	1		Amp. not visible. Off Coast South Island New Zealand.
		A	i	-	36	14	.45	
		M	e	-	42	16	.10	
		A	iS	-	42	19	.35	
		A	e	-	45	19	.40	
		A	i	-	47	30	.60	
		A	M	-	48	39	1.11	
		A	M	-	49	20	1.20	
		M	M	-	53	15	.21	
M	M	-	53	34	.19			
127	Dec.31	A	iP	21	20	50	.15	South Indian Ocean.
		M	iS	-	24	44	.25	
		A	iS	-	24	45	.84	
		A	M	-	27	17	1.60	
		M	M	-	27	51	.80	
		A	M	-	29	4	1.84	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 7th (1), 9th (1), 12th (1), 18th (1),
20th (2), 23rd (1), 25th (1), 26th (1),
28th (1), and 31st (1).

By instrument "M" on:- 7th (i), 12th (1), 13th (1), and 17th (1).

PERTH OBSERVATORY.

PERTH

July - DEC 1957

PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for July 1957 - September 1957

Instrument
 Columbia-Lamont long
 period seismograph.
 Milne-Shaw no.27

Symbol
 A
 M

Component
 Vertical
 North - South

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>JULY 1957</u>								
✓73.	July 1	A	i	19	55	.20	.35	Indo-Burma Border.
		A	M	20	2	55	1.60	
✓74.	July 2	A	iP	0	55	.24	1.05	Northern Iran. Amp. not visible.
		A	PP	=	59	.0		
		A	iS	1	7	.24	.83	
		A	LR	=	25	2	1.40	
		A	M	=	35	.55	1.37	
		A	M	=	42	.53	2.00	
		A	M	=	45	.51	2.20	
✓75.	July 7	A	iP	16	19	.30	.26	Solomon Islands.
		A	i	=	26	2	.36	
		M	i	=	26	5	.20	
		A	i	=	29	.19	.70	
		M	i	=	29	.29	.28	
		A	i	=	35	.38	.84	
		A	M	=	37	.30	2.80	
		A	M	=	38	.29	2.85	
✓76.	July 9	A	eP	10	3	.45	.19	Near South Coast of Sumatra.
		A	PP	=	4	.43	.22	
		A	i	=	9	.25	.44	
		A	iScS	=	10	.16	.39	
		A	i	=	11	.23	.61	
		A	M	=	12	.41	1.95	
✓77.	July 14	A	eP	6	33	.37	.20	Longa Islands Regions. (Deep Seated).
		A	iPP	=	34	.20	1.24	
		A	SP	=	34	.39	.60	
		A	i	=	37	.7	1.40	
		A	i	=	38	.8	.80	
		M	i	=	41	.5	.25	
		A	iS	=	41	.6	1.15	
		M	i	=	42	.32	.47	
		M	i	=	44	.31	.34	
		A	SS	=	45	.7	.60	
		M	i	=	46	.23	.35	
		A	iSSS	=	47	.50	.76	
		A	i	=	51	.36	.90	
		M	i	=	56	.34	.50	
✓78.	July 14	A	iP	8	20	31	.30	Kermadec Islands.
		A	i	=	20	39	.71	
		A	i	=	22	45	.35	
		A	iS	=	28	38	.40	
		A	SS	=	32	51	.47	
		A	eLR	=	37	19	.30	
		A	M	=	39	16	2.55	
		A	M	=	41	16	2.90	
		A	M	=	44	5	3.38	

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
79.	July 17	A	iP	11	19	14	1.03	Santa Cruz Islands.
		A	i	-	19	53	1.50	
		A	iS	-	26	30	1.05	
		A	i	-	30	6	1.10	
		A	i	-	30	25	1.15	
		A	M	-	38	19	2.95	
		A	M	-	39	29	2.17	
		A	M	-	41	52	2.50	
80.	July 19	A	e	21	53	25	.	Amp. not visible. Northern New Guinea.
		A	i	-	57	31	.25	
		A	M	22	0	18	1.25	
81.	July 21	A	i	6	8	27	.20	Ballery Islands Regions.
		A	i	-	14	41	.25	
		A	eLR	-	17	54	.30	
		A	M	-	19	33	1.04	
82.	July 23	A	i	1	25	0	.32	Andreanoff Islands Aleutians.
		A	e	-	36	21	.25	
		A	M	-	45	17	.85	
83.	July 24	A	i	11	18	51	.36	New Hebrides Islands. Amp. not visible.
		A	iS	-	22	15	.36	
		A	iSS	-	26	58		
		M	i	-	28	54	.35	
		A	M	-	31	44	2.74	
		A	M	-	32	5	2.79	
		M	M	-	32	49	1.00	
A	M	-	33	58	2.80			
84.	July 28	A	iP'	8	59	46	.91	Guerrero Mexico,
		M	e	9	0	0	.21	
		A	i	-	3	5	2.10	
		A	i	-	13	41	1.60	
		A	i	-	17	52	4.90	
		M	i	-	23	18	.36	
		A	i	-	25	33	3.50	
		A	i	-	27	6	4.45	
		A	i	-	33	55	4.20	
		A	M	-	34	10	7.65	
		A	M	-	39	50	9.05	
		M	i	-	42	15	.35	
		A	M	-	49	8	4.75	
		M	e	-	54	21	.40	
M	M	10	0	10	.75			
M	M	-	3	6	1.10			
A	M	-	7	17	10.25			
85.	July 29	A	i	18	15	50	.43	?
		A	i	-	22	14	.64	
		A	M	-	27	7	1.51	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 4th (1), 5th (1), 7th (1), 10th (1),
12th (2), 13th (1), 18th (1), 19th (2),
20th (2), 21st (2), 22nd (1), 23rd (1),
24th (2), 25th (1), 26th (1), 27th (2),
and 31st (1).

By instrument "M" on:- 1st (1), 2nd (1), 9th (1), 14th (1),
17th (1), 19th (1), 20th (1), 23rd (2),
27th (1), and 29th (1).

No.	Date	Inst.	Phase	Time			Amp	Remarks
				G.M.T.	h.	m.		
							cms.	
✓ 86.	Aug. 4	A	e	0	48	54	.30	Near north coast of New Guinea.
		A	iS	-	53	8	.35	
		M	i	-	54	56	.20	
		A	i	-	55	54	.45	
		A	i	-	56	9	.42	
		M	i	-	57	5	.35	
		A	LR	-	58	21	.83	
		M	e	1	0	4	.40	
		M	i	-	0	40	1.05	
		A	i	-	0	40	1.85	
		M	i	-	0	55		
		M	M	-	1	14	2.20	
		A	M	-	4	16	7.40	
		A	M	-	4	50	10.90	
✓ 87.	Aug. 4	A	i	21	28	17	.30	Prince Edward Islands Regions.
		A	e	-	35	16	.20	
		A	i	-	37	52	.71	
✓ 88.	Aug. 9	A	iP	2	36	24	.59	New Guinea.
		A	PP	-	37	51	.35	
		A	iS	-	42	8	.30	
		A	i	-	43	30	.32	
		M	i	-	44	40	.31	
		A	i	-	45	36	.65	
		A	i	-	46	24	.60	
		A	M	-	52	39	2.05	
		M	M	-	53	14	.61	
		A	M	-	55	28	2.90	
✓ 89.	Aug. 11	A	iP	21	47	9	.28	New Hebrides Islands.
		A	e	-	54	24	.30	
		A	iSS	-	57	52	.45	
		A	e	22	2	23	.30	
		M	i	-	4	29	.21	
		A	M	-	7	14	2.50	
		M	M	-	8	31	.75	
✓ 90.	Aug. 15	A	i	21	2	44	.31	?
		A	e	-	13	14	.55	
✓ 91.	Aug. 16	A	iP	12	6	4	.40	New-Britain Region.
		A	iPP	-	7	54	.53	
		A	i	-	15	18	.47	
		A	e	-	19	14	.22	
		A	M	-	23	45	.70	
✓ 92.	Aug. 17	A	e	0	35	6	.19	?
		A	M	-	49	32	.84	
✓ 93.	Aug. 18	A	iP	8	45	15	.49	Philippine Islands.
		A	i	-	45	46	.39	
		A	i	-	51	44	.45	Amp. not visible.
		A	i	-	51	59		
		A	i	-	52	42	.95	
		A	M	9	2	9	2.80	
		A	M	-	7	19	2.32	
		A	M	-				
✓ 94.	Aug. 18	A	i	21	55	29	.30	Northern Kurile Islands.
		A	i	22	26	24	.42	
		A	e	-	31	5	.30	
		A	M	-	32	24	.45	
		A	M	-				

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms.	Remarks
				h.	m.	s.		
✓ 95.	Aug. 19	A	iP	11	43	19	.30	Solomon Islands. (foreshock).
		A	i	"	45	6	.30	
		✓ A	i	"	50	25	.30	
		A	i	"	53	36	.78	
		A	i	"	57	22	.60	
		M	i	"	58	45	.20	
		M	M	12	0	35	1.19	
		A	M	"	2	33	2.27	
		A	M	"	4	15	2.25	
✓ 96.	Aug. 20	A	iP	6	35	45	.40	Solomon Islands. (foreshock).
		A	i	"	37	32	.62	
		✓ A	i	"	42	41	.45	
		A	iSS	"	46	2	.88	
		A	M	"	54	58	5.35	
		A	M	"	56	11	5.98	
✓ 97.	Aug. 20	A	iP	12	10	33	.25	Solomon Islands.
		A	i	"	17	31	.75	
		✓ A	i	"	20	51	.72	
		A	i	"	24	39	.65	
		A	M	"	28	9	3.10	
		A	M	"	30	10	3.70	
✓ 98.	Aug. 23	A	iP	2	8	29	.61	New Britain Region. (aftershock).
		A	i	"	8	54	1.27	
		M	i	"	15	9	.30	
		✓ A	iS	"	15	14	1.05	
		A	i	"	17	59	-	
		M	i	"	18	12	.33	
		M	M	"	24	50	.44	
		A	M	"	25	34	2.55	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (1), 9th (1), 10th (1), 11th (1),
16th (1), 18th (1), 20th (2), 21st (3),
22nd (2), 23rd (1), and 26th (2).

By instrument "M" on:- 4th (1), 15th (1), 16th (2), 17th (1),
18th (1), and 26th (1).

SEPTEMBER 1957.

✓ 99.	Sept. 4	A	i	4	42	56	.49	South Indian Ocean. (Heavy Micros.)
		M	i	"	44	14	.21	
		A	M	"	46	40	2.30	
		M	M	"	47	40	.49	
✓ 100.	Sept. 9	A	iP	0	17	54	.70	South Indian Ocean.
		M	i	"	21	18	.38	
		✓ A	i	"	21	20	.82	
		M	i	"	21	50	.56	
		A	i	"	21	53	.99	
		M	i	"	23	4	-	
		A	M	"	23	49	6.88	
		M	M	"	25	9	3.60	
		A	M	"	25	58	6.55	
✓ 101.	Sept. 15	A	i	4	28	57	.30	Near North Coast of Java. (Deep Seated).
		A	i	"	32	31	.29	
		✓ A	i	"	33	48	.35	
		A	i	"	33	56	.80	
		A	i	"	38	36	.54	
✓ 102.	Sept. 15	A	iP	18	50	25	.40	Solomon Islands. (Deep Seated).
		A	i	19	0	17	.39	
		A	i	"	4	10	.26	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms.	Remarks
				h.	m.	s.		
403.	Sept. 28	M	e	14	29	19	.20	Fiji Islands. (Deep Seated).
		M	i	-	30	6	.28	
		M	iS	-	36	36	2.40	
		M	i	-	38	5	1.09	
		M	i	-	40	2	1.55	

Tremors and undecipherable disturbances were recorded:-

By instruments "A" on:-2nd (3), 3rd (1), 7th (1), and 14th (1).

By instrument "M" on:-15th (2), 25th (1), and 27th (1).

Instrument "A" was not recording from 7^h 40^m on 24th September until 3^h 3^m on 30th September, due to repairs to cellar.

PERTH OBSERVATORY.

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PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for October 1957 - December 1957

Instrument
Columbia-Lamont long
period seismograph.
Milne-Shaw No.27

Symbol

Component

A
M

Vertical
North - South

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
<u>OCTOBER 1957</u>								
✓104	Oct. 4	A	i	5	47	28	.30	Near Coast of Venezuela.
		A	i	-	51	36	.20	
		A	i	6	30	40	.30	
		A	i	-	40	21	.26	
		A	i	-	46	54	.50	
		A	M	-	58	57	2.45	
✓105	Oct. 12	A	iP	19	2	21	1.14	Near South Coast of Java.
		M	iP	-	2	22	.16	
		A	iPP	-	2	52	.95	
		M	iPP	-	2	54	.19	
		A	iS	-	6	23	.25	
		A	i	-	6	31	.40	
		M	i	-	6	32	.20	
		M	i	-	6	41	.20	
		A	i	-	6	46	.90	
		M	i	-	8	0	.29	
		A	M	-	12	15	2.36	
✓106	Oct. 13	A	i	20	41	34	.26	Antarctic Ocean. S.W. of Macquarie Island.
		A	i	-	45	46	.30	
		A	e	-	48	39	.41	
		A	i	-	50	14	.65	
		M	i	-	50	14	.14	
		A	i	-	50	22	.53	
		M	i	-	50	50	.30	
		M	i	-	51	26	.35	
		A	M	-	52	20	3.95	
		M	M	-	52	24	.40	
✓107	Oct. 19	A	iP	18	38	36	.55	Near East Coast of Formosa.
		A	i	-	38	45	.85	
		A	i	-	49	29	.25	
		A	i	-	50	32	.35	
		A	i	-	56	31	.47	
		A	M	-	56	56	.75	
		A	i	-	59	20	.31	
		A	M	19	5	54	.90	
✓108	Oct. 24	A	iP	0	26	44	.54	New Hebrides Islands.
		A	i	-	28	38	.50	
		A	i	-	34	20	.31	
		A	e	-	37	35	.30	
		A	i	-	42	9	.61	
		A	M	-	48	10	4.41	
✓109	Oct. 26	A	iP	14	23	13	.25	Borneo.
		A	i	-	26	43	.42	
		A	iS	-	28	14	.36	
		A	i	-	29	48	.66	
		A	i	-	32	34	.57	
		A	M	-	36	40	2.05	
✓110	Oct. 29	A	eP	2	27	50	.18	Borneo Aftershock.
		A	eS	-	32	44	.17	
		A	M	-	40	21	.41	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd (2), 3rd (1), 5th (1), 10th (1),
13th (1), 20th (1), 21st (1), 23rd (1),
24th (3), 25th (2), 26th (2), 27th (1),
28th (1), and 31st (1).

By instrument "M" on:- 2nd (1), 4th (1), 5th (1), 10th (1),
19th (1), 21st (1), 24th (1), 25th (1),
26th (2), 27th (1), 29th (1), and 31st (2).

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
NOVEMBER 1957								
✓111	Nov. 2	A	iP	18	39	24	.45	New Hebrides Islands.
		A	i	-	40	11	.35	
		A	i	-	47	6	.40	
		A	i	-	50	9	.41	
		M	i	-	50	9	.11	
		A	i	-	53	38	.49	
		M	i	-	55	19	.24	
		M	M	-	55	39	.35	
		A	M	19	0	44	2.35	
		A	M	-	1	36	2.79	
✓112	Nov. 10	A	iP	2	44	39	.58	Solomon Islands.
		A	iPP	-	46	25	.44	
		M	i	-	51	12	.24	
		A	iS	-	51	19	.75	
		A	ScS	-	54	24	1.40	
		M	i	-	54	24	.18	
		M	i	-	57	56	.32	
		A	i	-	58	36	.90	
		A	i	-	59	47	1.01	
		M	i	3	0	34	.33	
		A	M	-	4	32	6.50	
		M	M	-	5	39	1.31	
		M	M	-	9	20	1.30	
		A	M	-	10	55	6.75	
✓113	Nov. 10	A	iP	5	56	29	.35	Near NE Coast of New Guinea.
		A	iPP	-	57	53	.52	
		A	e	6	1	20	.20	
		A	i	-	3	13	.55	
		M	i	-	5	3	.14	
		A	i	-	8	24	.84	
		M	i	-	10	7	.47	
		M	i	-	10	46	1.00	
		M	M	-	14	35	1.15	
		A	M	-	14	36	6.52	
		A	M	-	15	25	3.25	
✓114	Nov. 13	A	iP	17	32	11	.65	Kemadec Islands Region.
		A	i	-	32	33	.71	
		A	i	-	35	42	.61	
		A	iS	-	39	50	.31	
		A	i	-	44	0		Amp. not visible.
		A	e	-	46	6	1.15	
		A	i	-	49	6	1.96	
		M	i	-	49	15	.10	
		M	M	-	51	14	3.54	
		M	M	-	54	31	.39	
✓115	Nov. 20	A	e	13	9	30	.19	Unimak Island Aleutians.
		A	e	-	25	39	.25	
		A	M	-	37	0	.54	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
✓ 116	Nov. 25	A	iP	22	41	15	.59	Near East Coast of Borneo Amp. not visible
		A	i	-	41	59	.71	
		A	i	-	43	57	.25	
		A	i	-	44	48	.35	
		A	i	-	45	42	.31	
		A	iS	-	46	12	.51	
		A	i	-	47	47	.78	
		A	M	-	53	52	1.75	
		A	M	-	54	39	2.10	
✓ 117	Nov. 26	A	iP	5	16	14	.90	Near East Coast of Borneo
		A	i	-	17	4	.45	
		A	i	-	19	4	.35	
		A	i	-	21	9	.37	
		A	i	-	22	9	.70	
		A	i	-	22	41	1.00	
		A	M	-	29	35	1.90	
✓ 118	Nov. 28	A	iP	20	59	11	.50	New Hebrides Islands.
		A	i	21	1	7	.70	
		A	i	-	10	19	.41	
		A	i	-	14	42	.53	
		A	M	-	20	39	2.87	
✓ 119	Nov. 29	A	iP	17	47	57	.34	South Indian Ocean.
		A	iS	-	51	28	.39	
		A	M	-	55	59	.50	
✓ 120	Nov. 29	A	iP	22	35	15	.50	Southern Bolivia. (Deep Seated)
		A	iP	-	38	30	.40	
		A	i	-	39	30	.54	
		A	iPP	-	40	29	1.70	
		M	i	-	40	34	.20	
		A	i	-	41	30	1.24	
		A	i	-	41	53	2.07	
		M	i	-	47	3	.34	
		A	i	-	51	42	.85	
A	i	23	22	12	2.72			

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (2), 7th (1), 10th (1), 12th (2),
13th (1), 15th (1), 17th (1), 21st (2),
22nd (1), 26th (1), and 30th (1).

By instrument "M" on:- 3rd (2), 10th (1), 22nd (1), 25th (1),
26th (1), 28th (1), 29th (1), and 30th (1).

- DECEMBER 1957 -

✓ 121	Dec. 4	A	iP	3	49	53	.26	Outer Mongolia. Amp. not visible.
		M	i	-	50	6	.30	
		M	i	-	52	54		
		A	iPP	-	53	3	2.20	
		A	i	-	54	46	2.60	
		A	iS	-	59	50	1.35	
		M	iS	-	59	51	.81	
		A	i	4	0	0	4.02	
		A	M	-	11	16	8.29	
		A	M	-	13	42	10.20	
		A	M	-	14	52	10.25	
		M	M	-	17	30	4.60	
		M	M	-	19	39	5.02	

No.	Date	Inst.	Phase	Time			Amp.	Remarks	
				G.M.T.					
				h.	m.	s.	cms		
✓122	Dec.10	A	iP	14	44	11	.42	Solomon Islands.	
		A	iPP	-	46	3	1.49		
		A	iPPP	-	46	46	1.09		
		M	iS	-	50	48	.61		
		A	iS	-	50	51	1.35		
		A	i	-	53	48	1.75		
		M	iSS	-	54	0	.45		
		A	iSS	-	54	2	5.45		
		A	i	-	57	15	.91		
		M	M	15	0	34	1.66		
		A	M	-	1	55	10.70		
		M	M	-	2	49	2.40		
		A	M	-	4	46	10.70		
		M	M	-	6	39	2.40		
✓123	Dec.13	A	i	2	2	9	.25	Iran.	
		A	i	-	8	48	.31		
		A	i	-	15	36	.26		
		A	M	-	34	15	.46		
		A	M	-	38	30	.84		
✓124	Dec.17	A	e	5	25	23	.09	Near East Coast of Kamchatha.	
		A	i	-	34	11	.25	Amp. not visible.	
		A	M	6	10	0			
		A	M	-	11	49	.76		
✓125	Dec.17	M	iP	13	59	8	.30	Santa Cruz Islands.	
		A	iP	-	59	10	10.48		
		A	iPP	14	1	8	3.85		
		M	iS	-	6	16	2.27		
		A	iS	-	6	19	3.37		
		A	M	-	12	27	10.95		
		A	M	-	14	36	5.03		
		M	M	-	15	32	5.32		
		M	M	-	17	54	7.32		
		A	M	-	18	32	6.75		
		M	M	-	18	49	8.70		
✓126	Dec.31	A	iP	14	36	1		Amp. not visible.	
		A	i	-	36	14	.45	Off Coast South Island New Zealand.	
		M	e	-	42	16	.10		
		A	iS	-	42	19	.35		
		A	e	-	45	19	.40		
		A	i	-	47	30	.60		
		A	M	-	48	39	1.11		
		A	M	-	49	20	1.20		
		M	M	-	53	15	.21		
		M	M	-	53	34	.19		
✓127	Dec.31	A	iP	21	20	50	.15	South Indian Ocean.	
		M	iS	-	24	44	.25		
		A	iS	-	24	45	.84		
		A	M	-	27	17	1.60		
		M	M	-	27	51	.80		
		A	M	-	29	4	1.84		

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 7th (1), 9th (1), 12th (1), 18th (1), 20th (2), 23rd (1), 25th (1), 26th (1), 28th (1), and 31st (1).

By instrument "M" on:- 7th (i), 12th (1), 13th (1), and 17th (1).

PERTH OBSERVATORY.