

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
7	Jan.15	A	M	20	18	32	2.11	
		A	M	-	24	12	2.06	
8.	Jan.15	A	iP	22	24	49	.78	New Hebrides Islands Amp. not visible.
		A	iPP	-	26	45	.55	
		A	iS	-	31	56	.27	
		M	e	-	31	56		
		A	i	-	35	40	.35	
		M	e	-	36	19	.14	
		M	M	-	43	53	.61	
		M	M	-	44	46	.70	
		M	M	-	45	23	.51	
		A	M	-	46	5	5.25	
A	M	-	46	23	4.94			
9.	Jan.16	A	eP	11	12	35	.20	New Hebrides Islands.
		A	i	-	14	36	.10	
		A	iSS	-	23	30	.26	
		A	M	-	33	34	1.15	
		A	M	-	34	0	1.34	
10.	Jan.17	A	iP	7	21	19	.30	Antarctic Ocean.
		A	i	-	22	6	.15	
		M	e	-	23	46	.11	
		M	e	-	25	56	.15	
		A	iS	-	25	57	.65	
		M	M	-	29	9	1.04	
		A	M	-	29	17	4.40	
		M	M	-	29	59	.99	
A	M	-	30	8	5.36			
11.	Jan.19	A	iP'	14	27	3		Amp. not visible. Near Coast of Equador.
		M	i	-	27	21	.15	
		A	i	-	40	39	.51	
		A	i	-	48	50	1.04	
		M	e	-	49	31	.14	
		A	i	-	54	49	.60	
		M	e	-	55	36	.20	
		A	i	15	16	49	1.75	
		A	M	-	49	9	8.90	
		M	M	16	20	12	.45	
M	M	-	22	14	.40			
12.	Jan.27	A	iP	7	54	48	.41	Samoa Islands.
		A	i	-	58	49	.19	
		A	eS	8	3	43	.20	
		A	e	-	4	7	.20	
		A	M	-	20	0	.79	
		A	M	-	22	8	1.16	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 1st (3), 3rd (1), 5th (1), 8th (1),
9th (2), 10th (1), 12th (1), 13th (1),
14th (1), 17th (1), 18th (1), 20th (1),
22nd (2), 24th (1), 26th (2), 28th (2),
29th (1), and 31st (2).

By instrument "M" on:- 2nd (1), 3rd (1), 4th (1), 13th (1),
16th (1), and 27th (1).

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
FEBRUARY 1958								
13.	Feb. 1	A	iP'	16	29	58	.60	Near Coast of Ecuador.
		A	i	-	36	10	.47	
		A	i	17	20	5	.39	
		A	M	-	38	18	1.20	
		A	M	-	48	55	1.15	
14.	Feb. 1	A	i	18	22	24	.25	Local Movement.
		A	i	-	22	32	.65	
15.	Feb. 1	A	i	21	5	34	.46	Local Movement.
16.	Feb. 11	M	i	0	58	3	.25	Off South Coast of Java. (Early phases unfortunately lost during adjustments to instrument).
		M	M	1	1	30	.43	
		A	M	-	2	20	1.06	
		A	M	-	17	52	1.12	
17.	Feb. 18	A	iP	13	31	0	.57	Kermadec Islands.
		A	i	-	34	23	.26	
		A	iS	-	38	55	.29	
		A	M	-	52	5	.50	
		A	M	-	53	32	.49	
18.	Feb. 18	A	i	20	12	55	.15	
		A	i	-	21	15	.20	
		M	i	-	22	49	.21	
		M	i	-	28	46	.34	
		A	M	-	35	15	2.68	
		A	M	-	36	42	2.50	
19.	Feb. 19	A	iP	19	30	50	.56	Near South Coast of Java.
		A	i	-	31	46	.45	
		A	i	-	35	16	.34	
		M	i	-	35	24	.26	
		A	i	-	35	27	.62	
		M	i	-	35	36	.49	
		A	M	-	38	6	2.97	
		M	M	-	38	19	.35	
A	M	-	38	55	2.94			
20.	Feb. 23	A	i	0	41	54	.11	
		A	i	-	48	14	.15	
		A	M	-	53	3	.59	
21.	Feb. 27	A	iP	23	37	9	.65	
		A	i	-	39	22	.53	
		A	iS	-	44	41	.28	
		A	M	-	54	20	.61	
		A	M	-	56	0	.70	
		A	M	-	58	18	.70	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 1st (1), 3rd (1), 4th (2), 5th (1),
9th (1), 12th (1), 16th (1), 17th (2),
18th (1), 22nd (1), 24th (1), 25th (1),
and 28th (1).

By instrument "M" on:- 1st (3), 5th (1), 18th (1), 22nd (1),
25th (1), and 27th (1).

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
MARCH 1958								
22.	Mar. 9	A	i	7	31	55	.10	
		A	e	-	45	37	.12	
		A	M	-	48	57	.80	
		A	M	-	50	47	.80	
23.	Mar. 9	A	eP	10	31	50	.17	Kermadec Islands Region.
		A	e	-	45	29	.28	
		A	M	-	50	45	1.00	
		A	M	-	54	24	1.17	
24.	Mar. 11	A	iP	0	35	45	.24	Ryukyu Islands.
		A	i	-	35	51	.61	(h about 60 KM.)
		M	i	-	36	0	.16	
		M	i	-	36	54	.85	
		M	iS	-	44	4	1.35	
		A	iSS	-	44	29	2.36	
		M	i	-	47	44	.61	
		A	i	-	54	9	>6.27	
		M	M	-	52	16	.99	
		A	M	-	55	9	>5.26	
		M	M	-	55	14	1.11	
		A	M	-	56	37	>5.80	
25.	Mar. 11	A	i	14	9	57	.26	New Hebrides Islands.
		A	i	-	19	12	.29	
		A	e	-	19	41	.19	
		A	M	-	29	13	.89	
26.	Mar. 20	A	iP	3	3	7	.34	Local Movement.
		A	iS	-	3	26		Amp. not visible. (Approx. 100 miles SE of Perth.)
27.	Mar. 20	A	i	15	6	14	.22	
		A	M	-	15	29	.61	
		A	M	-	16	4	.59	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (1), 8th (1), 15th (1), 20th (1), 22nd (2),
24th (2), and 29th (1).

By instrument "M" on:- 8th (1), 9th (2), 11th (1), 20th (2), and
24th (2).

PERTH OBSERVATORY.

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No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
35	Apr. 21	A	iP	22	44	1		Amp. not visible. East Sumatra.
		A	i	-	47	36	.34	
		A	i	-	48	30	.41	
		A	M	-	50	6	1.50	
		A	M	-	52	4	1.21	
36		A	iSS	13	29	31	.26	Loyalty Islands.
		A	M	-	38	14	1.09	
		A	M	-	39	11	1.15	
		A	M	-	41	15	1.22	
37	Apr. 28	A	M	12	54	18	.40	Peru
		A	M	13	3	44	.55	
		A	M	-	10	7	.69	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 11th (1), 12th (1), 13th (1), 15th (1), 17th (1), 19th (1), 22nd (1), and 27th (1).

By instrument "M" on:- 3rd (1), 13th (1), 14th (1), 21st (2), 22nd (1), 24th (1), and 28th (1).

MAY

38	May 17	M	i	7	19	24	.15	Bismark Sea amp not visible (early phases lost)
		A	i	-	25	8		
		M	M	-	25	46	1.05	
		A	M	-	26	36	2.26	
		M	M	-	26	44	.85	
A	M	-	27	27	2.21			
39	May 18	A	iP	2	42	00		amp not visible New Hebrides Islands
		A	iS	-	49	19	.60	
		M	i	-	52	5	.21	
		A	iSS	-	52	36	.55	
		M	e	-	53	49	.13	
		A	Lr	-	55	51	.80	
		M	M	3	0	51	1.31	
		M	M	-	1	1	1.20	
A	M	-	3	20	5.85			
A	M	-	4	9	4.90			
40	May 18	A	iS	12	37	48	.65	New Hebrides aftershock
		A	iSS	-	41	15	1.45	
		A	i	-	41	50	1.30	
		M	i	-	45	15	.41	
		A	e	-	45	25	.65	
		A	i	-	46	43	.92	
		M	M	-	49	52	1.11	
		M	M	-	51	7	1.15	
		A	M	-	52	47	5.62	
A	M	-	53	38	4.80			
41	May 22	A	iP	15	15	50	.22	Bismark sea
		A	i	-	23	46	.15	
		A	M	-	30	26	1.75	
		A	M	-	30	52	1.75	
		A	M	-	32	30	1.92	
42	May 27	A	i	23	41	51	.17	North coast of New Guinea
		A	iS	-	46	13	.30	
		A	iSS	-	48	52	.36	
		A	i	-	49	25	.35	
		A	M	-	57	31	1.43	

No.	Date	Inst.	Phase	Time G.M.T.			Amp cms.	Remarks
				h.	m.	s.		
43	May 31	A	iP	19	41	35	.55	New Hebrides Islands
		M	eP	-	41	40	.10	
		A	i	-	43	44	2.15	
		M	i	-	44	43	.19	
		M	iS	-	48	50	.37	
		A	iS	-	48	55	1.49	
		A	i	-	49	3	5.13	
		A	iSS	-	52	54	4.60	
		M	i	-	53	6	.40	
		M	iLr	-	56	21	.35	
		A	M	-	57	14	>9.25	
A	M	-	59	2	>9.25			
M	M	20	3	39	6.15			
M	M	-	5	25	6.40			
Tremors and undecipherable disturbances were recorded :-								
By instrument "A" on:- 1st (1), 5th (1), 14th (1), and 15th (1)								
By instrument "M" on:- 19th (1) and 27th (1).								
44	June 3	A	iP	19	40	54	.60	New Hebrides Islands
		A	i	-	43	18	.77	
		A	iS	-	48	20	.65	
		A	iSS	-	51	52	1.01	
		A	M	20	2	26	>8.60	
A	M	-	2	42	8.95			
45	June 6	A	i	10	20	37	.21	Off coast of Costa Rica
		A	M	-	24	14	.47	
		A	M	-	30	27	.94	
46	June 7	A	i	13	6	41	.26	South of Tasmania
		A	e	-	7	30	.31	
		A	M	-	8	52	1.45	
		M	M	-	9	14	.30	
47	June 12	A	M	21	50	32	.68	Fox Islands - Aleutian Islands.
		A	M	22	2	18	.75	
48	June 13	A	iP	11	3	11	.29	
		A	e	-	3	23	.30	
		A	i	-	4	29	.19	
		A	iS	-	6	45	.44	
		M	i	-	7	4	.20	
		M	M	-	10	3	.52	
		A	M	-	10	7	1.35	
49	June 15th	A	e	17	39	55	.19	Near north coast of New Guinea
		M	e	-	40	48	.11	
		M	i	-	41	14	.16	
		M	M	-	42	34	.52	
		A	M	-	45	10	1.28	
		M	M	-	46	21	.35	
		M	M	-	47	50	.40	
		A	M	-	48	7	1.31	
50	June 25th	A	iP	9	44	2	1.45	Near North coast of New Guinea.
		M	iP	-	44	10	.20	
		A	iPP	-	45	30	2.35	
		M	i	-	49	20	.24	
		A	i	-	49	39	1.41	
		A	iS	-	50	38	1.37	
		A	M	-	55	56	5.80	
		A	M	-	57	22	7.25	
		A	M	-	57	65	>9.25	

No.	Date	Inst.	Phase	Time			Amp	Remarks
				G.M.T.				
				h.	m.	s.	cms.	
50 (Continued)		M	M	9	59	29	4.70	
		A	M	-	59	57	> 5.00	
		M	M	10	0	31	5.50	
		M	M	-	2	26	5.70	
		M	M	-	3	15	6.00	

Tremors and undecipherable disturbances were recorded:-

By Instrument "A" on :- 10th (1), 15th (2), 16th (1), 18th (1),
19th (1), 24th (1), 28th (2), 29th (2),
30th (1).

By Instrument "M" on:- 6th (1), 12th (1), 15th (1), 16th (1),
19th (1), 29th (1).

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No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
AUGUST 1958								
56	Aug.4	A	iP	4	19	9	.40	Banka Sea.(h about 150KM)
		A	iSP	-	19	53	.34	
		M	i	-	19	55	.15	
		M	iS	-	23	47	.21	
		A	iS	-	23	50	.82	
		A	iSS	-	24	56	.96	
		M	M	-	27	38	.55	
		M	M	-	30	26	.53	
		M	M	-	31	12	.51	
		A	M	-	32	16	1.80	
57	Aug.12	A	iP	19	9	52	.21	Timor Island.
		A	iS	-	13	56	.26	
		M	i	-	14	21	.11	
		M	i	-	17	10	.15	
		M	M	-	20	30	.25	
		A	M	-	20	36	.92	
		A	M	-	21	43	1.07	
		M	M	-	22	35	.21	
58	Aug.12	A	i	19	32	2	.50	Molucca Passage.
		A	i	-	33	14	.76	
		M	i	-	33	20	.20	
		A	i	-	33	33	.98	
		M	i	-	36	25	.19	
		A	iS	-	37	16	.34	
		M	i	-	37	20	.26	
		M	M	-	39	55	.37	
		M	M	-	41	5	.35	
		M	M	-	42	13	.37	
		A	M	-	42	37	2.69	
		M	M	-	42	54	.46	
		A	M	-	47	10	3.55	
59	Aug.15	A	iP	20	8	59	.39	Near East Coast of Kamchatka.
		A	iPP	-	12	49	.30	
		A	i	-	21	14	.75	
		M	i	-	21	19	.15	
		M	i	-	21	50	.16	
		A	e	-	26	6	.34	
		M	M	-	43	30	.14	
		M	M	-	44	34	.15	
		A	M	-	45	14	1.95	
		M	M	-	52	9	.21	
		A	M	-	52	32	1.74	
60	Aug.15	A	iP	22	35	54	2.16	Celebes.
		M	iP	-	35	56	.24	
		A	i	-	36	43	1.21	
		A	iPP	-	37	11	6.15	
		M	i	-	37	26	.89	
		A	i	-	40	56	2.90	
		M	iS	-	41	25	3.50	
		A	iS	-	41	27	2.26	
		A	M	-	44	14	7.40	
		A	M	-	46	55	7.55	
		A	M	-	48	30	7.44	
		M	M	-	49	30	3.71	
		M	M	-	51	29	4.30	
		A	M	-	55	46	7.35	
61	Aug.16	A	i	19	57	6	.74	
		A	i	20	0	36	.39	
		A	i	-	2	35	.69	
		A	M	-	6	47	1.35	
		A	M	-	8	44	1.80	

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
62	Aug.17	A	i	18	17	58	.98	Bismark Sea (heavy microseisms).
		M	i	-	20	15	.47	
		A	i	-	20	29	1.26	
		M	M	-	24	9	2.48	
		M	M	-	26	19	1.71	
		A	M	-	26	19	6.90	
63	Aug.19	A	iP	21	56	24	.44	New Ireland Island.
		A	iPP	-	58	12	.40	
		A	iSS	22	6	19	.59	
		A	M	-	16	3	1.99	
		A	M	-	16	42	2.10	
		A	M	-	18	9	2.25	
64	Aug.20	A	iP	3	49	4	.50	New Hebrides Island.
		A	iS	-	56	15	.74	
		A	iSS	4	0	0	2.45	
		M	i	-	3	45	.39	
		A	M	-	9	2	5.20	
		M	M	-	9	44	1.81	
		M	M	-	9	58	2.15	
		A	M	-	9	59	6.01	
65	Aug.29	A	iP	12	33	35	.21	
		A	i	-	40	44	.20	
		A	i	-	44	18	.54	
		M	i	-	46	30	.06	
		A	i	-	50	24	.31	
		A	M	-	53	29	1.59	
		M	M	-	54	0	.40	
		A	M	-	54	27	1.74	
M	M	-	56	29	.44			

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 6th (1), 10th (1), 13th (2), 14th (3),
15th (1), 16th (1), 21st (3), and 26th (3).

By instrument "M" on:- 10th (1), 13th (1), 16th (1), 21st (2)
and 26th (2).

SEPTEMBER 1958

66	Sept. 4	A	i	22	46	27	.37	
		A	i	-	53	50	2.10	
		M	i	-	53	54	.25	
		M	M	23	1	46	.35	
		A	M	-	1	51	2.60	
		M	M	-	2	15	.44	
67	Sept.11	A	iP	18	9	28	.34	Mindanao(Philippine Islands)
		A	i	-	9	42	.14	
		A	i	-	15	36	.35	
		A	i	-	18	38	.41	
68	Sept.15	A	iP	19	51	46	.36	Celebes Sea (depth about 600KM).
		A	i	-	54	48	.55	
		A	iS	-	56	32	1.31	
		A	i	20	0	40	1.05	

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
69	Sept.20	A	iP	17	17	40	.27	Solomon Islands.
		A	i	-	17	54	.85	
		A	iPP	-	19	30	.54	
		A	iS	-	24	21	.39	
		A	iSS	-	27	16	1.69	
		A	M	-	35	25	4.75	
		A	M	-	37	4	4.60	
70	Sept.22	A	iP	19	15	16	.56	Kermadec Islands Region.
		M	iS	-	22	50	.21	
		A	iS	-	22	51	.70	
		M	i	-	25	3	.14	
		M	M	-	34	30	.15	
		A	M	-	34	41	1.07	
		M	M	-	36	56	.19	
		A	M	-	37	25	1.19	
		M	M	-	39	21	.15	
		A	M	-	39	37	1.35	
71	Sept.25	A	i	7	39	50	.09	Atlantic Ocean.
		A	e	8	2	16	.13	
		A	i	-	2	59	.30	
		A	e	-	7	54	.15	
		A	M	-	33	35	.74	
		A	M	-	38	40	.91	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd (2), 3rd (1), 12th (1), 14th (2), 18th (2),
24th (1), 25th (2), and 27th (1).

By instrument "M" on:-7th (1), 12th (1), and 25th (1)..

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PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for October - December 1958



<u>Instrument</u>	<u>Symbol</u>	<u>Component</u>
Columbia-Lamont long	A	Vertical
period seismograph.		
Milne-Shaw No.27	M	North - South

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>OCTOBER 1958</u>								
72	Oct. 1st	A	iP	9	36	25	.35	Antarctic Ocean. Southwest of Macquarie Islands.
		M	iS	-	41	50	.34	
		A	iS	-	41	51	.40	
		A	iG	-	43	40	.38	
		A	M	-	46	28	4.40	
		A	M	-	47	52	2.74	
		M	M	-	48	47	.79	
		M	M	-	50	7	.51	
73	Oct. 7th	A	iP	12	40	44	.46	New Britain.
		A	iPP	-	42	22	.30	
		A	iS	-	47	8	.21	
		M	iS	-	47	9	.14	
		M	e	-	50	16	.19	
		A	i	-	50	30	.68	
		M	M	-	57	14	.31	
		M	M	-	59	23	.34	
		A	M	-	59	42	2.35	
		M	M	13	0	30	.44	
		A	M	-	2	23	2.09	
74	Oct. 9th	A	e	12	2	7	.12	Sandwich Islands Region.
		A	M	-	8	46	.69	
		A	M	-	10	4	.74	
		A	M	-	22	53	.60	
75	Oct.20th	A	iP	1	17	39	1.75	Off South Coast of Java. Amp. not visible.
		M	iP	-	17	39	.19	
		M	iPP	-	18	5	.30	
		A	iPP	-	18	6	1.90	
		A	iS	-	21	51	1.61	
		M	iS	-	21	51		
		M	M	-	24	55	.75	
		M	M	-	25	26	.76	
		A	M	-	25	30	>5.85	
		A	M	-	25	50	>6.20	
76.	Oct.21st	A	iPP	6	24	1	.35	Near northeast coast of New Guinea.
		A	i	-	28	26	.29	
		A	i	-	30	46	.33	
		A	M	-	39	34	1.19	
77	Oct.21st	A	iP	15	45	36	.36	South of Java.
		A	i	-	49	36	.28	
		A	M	-	52	15	.55	
		A	M	-	53	21	.57	
		A	M	-	58	10	.81	
		A	M	16	6	24	1.21	
78	Oct.22nd	A	iP	23	51	49	.18	New Hebrides Islands.
		A	ePP	-	53	47	.21	
	Oct.23rd	A	iSS	0	2	45	.34	
		A	M	-	12	55	2.10	
		A	M	-	13	25	2.60	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd (1), 4th (1), 6th (1), 8th (1),
18th (2), 24th (1), 26th (1), 28th (2),
and 29th (1).

By instrument "M" on:- 9th (1), 18th (1), 21st (2), 22nd (1),
and 29th (1).

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>NOVEMBER 1958</u>								
79	Nov. 1st	A	iP	3	46	40	.26	Bismark Sea. Amp. not visible
		A	iPP	-	48	30	.89	
		A	iPPP	-	49	0		
		M	iS	-	53	12	.24	
		A	i	-	53	19	.47	
		A	i	-	53	41	.31	
		M	i	-	55	56	.25	
		A	iSS	-	56	19	1.48	
		M	M	4	4	24	1.65	
		M	M	-	4	45	1.60	
		A	M	-	5	16	6.60	
		A	M	-	5	34	7.05	
A	M	-	7	45	5.75			
80	Nov. 1st	M	i	6	20	34	.15	
		A	i	-	22	43	.25	
		M	i	-	23	21	.14	
		A	e	-	25	29	.23	
		M	M	-	29	11	.49	
		M	M	-	31	19	.45	
		A	M	-	31	37	1.37	
		A	M	-	32	22	1.63	
M	M	-	32	35	.48			
81.	Nov. 1st	A	iP	12	25	29	.16	New Hebrides Islands.
		A	ePP	-	27	19	.55	
		A	iS	-	32	37	.45	
		M	i	-	37	50	.20	
		A	i	-	40	21	.44	
		M	i	-	41	36	.34	
		A	M	-	45	46	3.45	
		M	M	-	45	52	.45	
		M	M	-	47	38	.81	
		M	M	-	48	21	.62	
		A	M	-	50	35	3.64	
A	M	-	53	11	3.72			
82	Nov. 1st	A	iP	15	59	5	.25	New Hebrides Islands aftershock.
		A	iPPP	16	1	46	.35	
		A	i	-	6	18	.24	
		M	i	-	13	52	.16	
		M	M	-	21	10	.44	
		A	M	-	21	50	1.70	
		A	M	-	23	39	1.80	
82	Nov. 6th	A	iP	23	10	24	>6.60	Kurile Islands. (h about 100KM) Amp. not visible
		M	iP	-	10	25	.65	
		M	iPP	-	13	45		
		A	iS	-	20	30	>7.00	
		M	iS	-	20	31		
		A	M	-	35	48	>7.05	
		M	M	-	36	30	4.36	
		M	M	-	42	20	5.60	
A	M	-	42	22	>7.05			



No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks	
				h.	m.	s.			
83	Nov.12th	A	iP	20	35	51	1.62	Kurile Islands.	
		M	iP	-	35	52	.16		
		M	iPP	-	38	59	.20		
		A	i	-	46	21	.97		
		M	i	-	46	56	.51		
		A	i	-	47	8	1.20		
		A	iSS	-	51	31	.65		
		A	M	21	15	46	3.81		
		M	M	-	19	16	.35		
		A	M	-	20	47	3.98		
		M	M	-	21	20	.45		
		A	M	-	22	14	4.19		
M	M	-	27	3	.47				
84	Nov.14th	A	iP	13	54	31	.16	Banda Sea.	
		A	i	-	54	56	.38		
		A	iPP	-	55	26	.60		
		M	iS	-	59	17			Amp.not visible
		A	iS	-	59	18	1.10		
		A	M	14	3	50	2.90		
		A	M	-	5	6	2.87		
85	Nov.16th	A	e	18	4	47	.22	Samoa Islands Region.	
		A	M	-	19	27	.40		
		A	M	-	20	24	.37		
86	Nov.17th	A	iP	9	55	16	.14	Solomon Islands.	
		A	iPP	-	57	8	.15		
		A	i	10	2	24	.20		
		A	iSS	-	5	50	.34		
		M	M	-	12	50	.78		
		A	M	-	14	52	1.24		
		A	M	-	15	49	1.60		
87	Nov.22nd	A	iP	0	9	11	1.27	South of Java.	
		M	iP	-	9	12	.30		
		A	iPP	-	9	32	.80		
		A	iS	-	13	14	.98		
		A	M	-	17	23	3.20		
		M	M	-	19	30	.81		
		A	M	-	20	59	3.01		
M	M	-	21	11	.85				
88	Nov.25th	A	iP	13	19	32	.16	Off South Coast of Java.	
		A	iPP	-	19	53	.19		
		A	M	-	27	31	.34		
89	Nov.30th	A	iP	1	43	49	.17	South of Honshu, Japan. Amp.not visible	
		A	eS	-	52	54			
		A	i	-	57	23	.15		
		A	M	2	13	4	.16		
		A	M	-	16	6	.16		
		A	M	-	26	40	.18		
90	Dec. 3rd	A	iP	9	57	32	.19	Near north Coast of Luzon.	
		A	M	10	14	28	.14		
		A	M	-	19	32	.14		
91	Dec. 5th	A	M	10	44	17	.16	South of Panama.	
		A	M	-	45	39	.19		

DECEMBER

No.	Date	Inst.	Phase	Time G.M.T.			Amp.	Remarks
				h.	m.	s.		
92	Dec.10th	A	iP	7	11	30	1.81	Off North Island, New Zealand. (h about 300KM)
		A	i	-	12	34	1.83	
		M	i	-	14	19	.29	
		M	iS	-	18	19	.80	
		A	iS	-	18	20	2.14	
		M	i	-	20	15	.40	
		A	i	-	20	23	1.14	
		M	i	-	21	42	.45	
		M	i	-	23	51	.75	
		A	M	-	29	47	1.66	
A	M	-	31	47	1.92			
93	Dec.17th	A	iSS	20	51	50	.29	New Ireland Region.
		M	i	-	51	57	.11	
		A	M	-	54	12	.20	
		A	M	-	57	52	.24	
		M	M	-	58	25	.11	
		A	M	-	59	15	.19	
94	Dec.21st	A	e	6	9	9	.06	Western Sinbiang Province, China.
		A	M	-	32	52	.19	
		A	M	-	35	53	.29	
		A	M	-	38	41	.30	
95.	Dec.22nd	A	i	22	35	16	.11	Solomon Islands.
		A	M	-	43	20	.36	
		A	M	-	44	18	.38	
96	Dec.25th	A	iP	8	13	32	.23	New Britain.
		A	iPP	-	15	7	.29	
		A	iS	-	19	49	.29	
		M	iS	-	19	50	.21	
		A	i	-	22	49	.54	
		M	i	-	22	49	.46	
		A	i	-	23	3	1.05	
		M	i	-	23	5	.50	
		A	M	-	29	43	1.72	
		M	M	-	30	10	.49	
A	M	-	31	34	1.90			

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (1), 2nd (2), 7th (3), 9th (2), 10th (1),
 14th (1), 18th (4), 19th (2), 20th (1), 22nd (1),
 23rd (1), 24th (2), 28th (1), 30th (1), and
 31st (1).

By instrument "M" on:- 7th (1) and 18th (1).

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
83	Nov. 12th	A	iP	20	35	51	1.62	Kurile Islands.
		M	iP	-	35	52	.16	
		M	iPP	-	38	59	.20	
		A	i	-	46	21	.97	
		M	i	-	46	56	.51	
		A	i	-	47	8	1.20	
		A	iSS	-	51	31	.65	
		A	M	21	15	46	3.81	
		M	M	-	19	16	.35	
		A	M	-	20	47	3.98	
		M	M	-	21	20	.45	
A	M	-	22	14	4.19			
M	M	-	27	3	.47			
84	Nov. 14th	A	iP	13	54	31	.16	Banda Sea.
		A	i	-	54	56	.38	
		A	iPP	-	55	26	.60	
		M	iS	-	59	17		
		A	iS	-	59	18	1.10	
		A	M	14	3	50	2.90	
A	M	-	5	6	2.87			
85	Nov. 16th	A	e	18	4	47	.22	Samoa Islands Region.
		A	M	-	19	27	.40	
		A	M	-	20	24	.37	
86	Nov. 17th	A	iP	9	55	16	.14	Solomon Islands.
		A	iPP	-	57	8	.15	
		A	i	10	2	24	.20	
		A	iSS	-	5	50	.34	
		M	M	-	12	50	.78	
		A	M	-	14	52	1.24	
A	M	-	15	49	1.60			
87	Nov. 22nd	A	iP	0	9	11	1.27	South of Java.
		M	iP	-	9	12	.30	
		A	iPP	-	9	32	.80	
		A	iS	-	13	14	.98	
		A	M	-	17	23	3.20	
		M	M	-	19	30	.81	
		A	M	-	20	59	3.01	
		M	M	-	21	11	.85	
88	Nov. 25th	A	iP	13	19	32	.16	Off South Coast of Java.
		A	iPP	-	19	53	.19	
		A	M	-	27	31	.34	
89	Nov. 30th	A	iP	1	43	49	.17	South of Honshu, Japan. Amp. not visible
		A	eS	-	52	54		
		A	i	-	57	23	.15	
		A	M	2	13	4	.16	
		A	M	-	16	6	.16	
		A	M	-	26	40	.18	
90	Dec. 3rd	A	iP	9	57	32	.19	Near north Coast of Luzon.
		A	M	10	14	28	.14	
		A	M	-	19	32	.14	
91	Dec. 5th	A	M	10	44	17	.16	South of Panama.
		A	M	-	45	39	.19	

DECEMBER

No.	Date	Inst.	Phase	-4- Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
92	Dec. 10th	A	iP	7	11	30	1.81	Off North Zealand.
		A	i	-	12	34	1.83	
		M	i	-	14	19	.29	
		M	iS	-	18	19	.80	
		A	iS	-	18	20	2.14	
		M	i	-	20	15	.40	
		A	i	-	20	23	1.14	
		M	i	-	21	42	.45	
		M	i	-	23	51	.75	
		A	M	-	29	47	1.66	
A	M	-	31	47	1.92			
93	Dec. 17th	A	iSS	20	51	50	.29	New Ireland Region.
		M	i	-	51	57	.11	
		A	M	-	54	12	.20	
		A	M	-	57	52	.24	
		M	M	-	58	25	.11	
		A	M	-	59	15	.19	
94	Dec. 21st	A	e	6	9	9	.06	Western Sinbiang Province, China.
		A	M	-	32	52	.19	
		A	M	-	35	53	.29	
		A	M	-	38	41	.30	
95	Dec. 22nd	A	i	22	35	16	.11	Solomon Islands.
		A	M	-	43	20	.36	
		A	M	-	44	18	.38	
6	Dec. 25th	A	iP	8	13	32	.23	New Britain.
		A	iPP	-	15	7	.29	
		A	iS	-	19	49	.29	
		M	iS	-	19	50	.21	
		A	i	-	22	49	.54	
		M	i	-	22	49	.46	
		A	i	-	23	3	1.05	
		M	i	-	23	5	.50	
		A	M	-	29	43	1.72	
		M	M	-	30	10	.49	
A	M	-	31	34	1.90			

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (1), 2nd (2), 7th (3), 9th (2), 10th (1),
14th (1), 18th (4), 19th (2), 20th (1), 22nd (1),
23rd (1), 24th (2), 28th (1), 30th (1), and
31st (1).

By instrument "M" on:- 7th (1) and 18th (1).

PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for January - March 1958

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JAN-DEC

701

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 1958</u>								
1.	Jan. 2	A	i	0	31	23	.10	New Britain.
		A	e	-	39	9	.12	
		A	M	-	49	16	.45	
		A	M	-	51	46	.39	
2.	Jan. 3	A	iP	17	55	45	.16	Mascarene Islands Region.
		A	i	18	2	36	.08	
		A	i	-	2	46	.29	
		A	eSS	-	6	4	.15	
		A	eLr	-	8	20	.14	
		A	M	-	10	10	.65	
		A	M	-	10	51	.65	
3.	Jan. 4	A	iP	23	26	34	.11	Off South Coast of Java. (Deep Seated).
		A	iPP	-	27	9	.13	
		A	i	-	31	11	.14	
		A	e	-	33	32	.16	
4.	Jan. 5	A	iP	8	11	15	.16	Celebes Sea. (Deep Seated).
		A	e	-	14	35	.12	
		M	i	-	16	5	.30	
		A	iS	-	16	16	.26	
		A	i	-	19	6	.40	
		M	i	-	19	35	.21	
5.	Jan. 11	A	iP	13	28	52	.31	Tonga Islands Region.
		A	ePcP	-	29	34	.35	
		A	i	-	30	46	.12	
		A	i	-	36	39	.35	
		M	i	-	36	39	.20	
		A	i	-	43	16	.15	
		A	e	-	47	20	.14	
		M	M	-	47	50	.24	
		M	M	-	50	55	.23	
		A	M	-	51	54	.91	
6.	Jan. 13	A	i	3	3	33	.17	Santa Cruz Islands. (Deep Seated).
		A	i	-	5	56	.12	
		A	e	-	14	18	.06	
		A	M	-	23	38	.54	
		A	M	-	24	56	.60	
		A	M	-	26	21	.51	
7.	Jan. 15	A	iP'	19	33	37	.26	Southern Peru. (Deep Seated).
		A	iPP'	-	34	7	.26	
		A	i	-	35	44	.24	
		A	i	-	35	36	.96	
		M	e	-	35	36	.39	
		M	i	-	37	4	.39	
		A	e	-	39	35	.44	
		A	i	-	44	49	.46	
		M	i	-	53	44	.21	
A	i	-	54	11	.86			
			20	3	34	.75		

Amp. not visible.

Amp. not visible.

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
7	Jan. 15	A	M	20	18	32	2.11	
		A	M	-	24	12	2.06	
8.	Jan. 15	A	iP	22	24	49	.78	New Hebrides Islands Amp. not visible.
		A	iPP	-	26	45	.55	
		A	iS	-	31	56	.27	
		M	e	-	31	56		
		A	i	-	35	40	.35	
		M	e	-	36	19	.14	
		M	M	-	43	53	.61	
		M	M	-	44	46	.70	
		M	M	-	45	23	.51	
		A	M	-	46	5	5.25	
A	M	-	46	23	4.94			
9.	Jan. 16	A	eP	11	12	35	.20	New Hebrides Islands.
		A	i	-	14	36	.10	
		A	iSS	-	23	30	.26	
		A	M	-	33	34	1.15	
		A	M	-	34	0	1.34	
10.	Jan. 17	A	iP	7	21	19	.30	Antarctic Ocean.
		A	i	-	22	6	.15	
		M	e	-	23	46	.11	
		M	e	-	25	56	.15	
		A	iS	-	25	57	.65	
		M	M	-	29	9	1.04	
		A	M	-	29	17	4.40	
		M	M	-	29	59	.99	
		A	M	-	30	8	5.36	
11.	Jan. 19	A	iP'	14	27	3		Amp. not visible. Near Coast of Equador.
		M	i	-	27	21	.15	
		A	i	-	40	39	.51	
		A	i	-	48	50	1.04	
		M	e	-	49	31	.14	
		A	i	-	54	49	.60	
		M	e	-	55	36	.20	
		A	i	15	16	49	1.75	
		A	M	-	49	9	8.90	
		M	M	16	20	12	.45	
M	M	-	22	14	.40			
12.	Jan. 27	A	iP	7	54	48	.41	Samoa Islands.
		A	i	-	58	49	.19	
		A	eS	8	3	43	.20	
		A	e	-	4	7	.20	
		A	M	-	20	0	.79	
		A	M	-	22	8	1.16	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 1st (3), 3rd (1), 5th (1), 8th (1),
9th (2), 10th (1), 12th (1), 13th (1),
14th (1), 17th (1), 18th (1), 20th (1),
22nd (2), 24th (1), 26th (2), 28th (2),
29th (1), and 31st (2).

By instrument "M" on:- 2nd (1), 3rd (1), 4th (1), 13th (1),
16th (1), and 27th (1).

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
FEBRUARY 1958								
13.	Feb. 1	A	iP ^t	16	29	58	.60	Near Coast of Ecuador.
		A	i	-	36	10	.47	
		A	i	17	20	5	.39	
		A	M	-	38	18	1.20	
		A	M	-	48	55	1.15	
14.	Feb. 1	A	i	18	22	24	.25	Local Movement.
		A	i	-	22	32	.65	
15.	Feb. 1	A	i	21	5	34	.46	Local Movement.
16.	Feb. 11	M	i	0	58	3	.25	Off South Coast of Java. (Early phases unfortunately lost during adjustments to instrument).
		M	M	1	1	30	.43	
		A	M	-	2	20	1.06	
		A	M	-	17	52	1.12	
17.	Feb. 18	A	iP	13	31	0	.57	Kermadec Islands.
		A	i	-	34	23	.26	
		A	iS	-	38	55	.29	
		A	M	-	52	5	.50	
		A	M	-	53	32	.49	
18.	Feb. 18	A	i	20	12	55	.15	
		A	i	-	21	15	.20	
		M	i	-	22	49	.21	
		M	i	-	28	46	.34	
		A	M	-	35	15	2.68	
		A	M	-	36	42	2.50	
19.	Feb. 19	A	iP	19	30	50	.56	Near South Coast of Java.
		A	i	-	31	46	.45	
		A	i	-	35	16	.34	
		M	i	-	35	24	.26	
		A	i	-	35	27	.62	
		M	i	-	35	36	.49	
		M	M	-	38	6	2.97	
		A	M	-	38	19	.35	
A	M	-	38	55	2.94			
20.	Feb. 23	A	i	0	41	54	.11	
		A	i	-	48	14	.15	
		A	M	-	53	3	.59	
21.	Feb. 27	A	iP	23	37	9	.65	
		A	i	-	39	22	.53	
		A	iS	-	44	41	.28	
		A	M	-	54	20	.61	
		A	M	-	56	0	.70	
		A	M	-	58	18	.70	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 1st (1), 3rd (1), 4th (2), 5th (1),
9th (1), 12th (1), 16th (1), 17th (2),
18th (1), 22nd (1), 24th (1), 25th (1),
and 28th (1).

By instrument "M" on:- 1st (3), 5th (1), 18th (1), 22nd (1),
25th (1), and 27th (1).

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
MARCH 1958								
22.	Mar. 9	A	i	7	31	55	.10	
		A	e	-	45	37	.12	
		A	M	-	48	57	.80	
		A	M	-	50	47	.80	
23.	Mar. 9	A	eP	10	31	50	.17	Kermadec Islands Region.
		A	e	-	45	29	.28	
		A	M	-	50	45	1.00	
		A	M	-	54	24	1.17	
24.	Mar. 11	A	iP	0	35	45	.24	Ryukyu Islands.
		A	i	-	35	51	.61	(h about 60 KM.)
		M	i	-	36	0	.16	
		M	i	-	36	54	.85	
		M	iS	-	44	4	1.35	
		A	iSS	-	44	29	2.36	
		M	i	-	47	44	.61	
		A	i	-	54	9	6.27	
		M	M	-	52	16	.99	
		A	M	-	55	9	5.26	
		M	M	-	55	14	1.11	
		A	M	-	56	37	5.80	
25.	Mar. 11	A	i	14	9	57	.26	New Hebrides Islands.
		A	i	-	19	12	.29	
		A	e	-	19	41	.19	
		A	M	-	29	13	.89	
26.	Mar. 20	A	iP	3	3	7	.34	Local Movement.
		A	iS	-	3	26		Amp. not visible. (Approx 100 miles SE of Perth.)
27.	Mar. 20	A	i	15	6	14	.22	
		A	M	-	15	29	.61	
		A	M	-	16	4	.59	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 3rd (1), 8th (1), 15th (1), 20th (1), 22nd (2),
24th (2), and 29th (1).

By instrument "M" on:- 8th (1), 9th (2), 11th (1), 20th (2), and
24th (2).

PERTH OBSERVATORY.

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PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for April - June 1958

<u>Instrument</u>	<u>Symbol</u>	<u>Component</u>
Columbia-Lamont long period seismograph. Milne-Shaw No.27	A M	Vertical North - South

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>APRIL 1958</u>								
28	Apr. 3 ✓	A	i	7	43	46	.41	
		A	i	-	45	43	.31	
		A	M	-	48	56	.90	
29	Apr. 3 ✓	M	i	15	55	39	.17	
		A	i	-	55	44	.66	
		M	i	-	57	41	.11	
		M	i	-	59	5	.15	
		M	M	16	3	6	.47	
		A	M	-	6	17	1.90	
		A	M	-	6	54	2.55	
30	Apr. 7 ✓	A	i	15	50	46	.35	Alaska.
		A	i	-	57	36	.31	
		A	i	16	0	47	.34	
		M	i	-	2	4	.16	
		M	e	-	7	40	.10	
		A	i	-	11	17	.81	
		M	e	-	20	10	.14	
		A	i	-	22	59		Amp. not visible.
		A	i	-	26	39	.85	
		M	i	-	35	4	.21	
		A	M	-	35	25	2.65	
		M	M	-	40	22	.35	
		A	M	-	42	57	5.32	
		M	M	-	43	0	.46	
31	Apr. 14 ✓	A	iP'	21	52	11	1.24	Near Coast of Ecuador.
		A	i	-	56	18	.50	
		A	i	22	9	9	.41	
		A	i	-	14	0		Amp. not visible.
		A	M	-	59	6	1.92	
		A	M	23	4	14	1.82	
		A	M	-	9	24	2.86	
32	Apr. 17 ✓	A	iSS	6	39	39	.29	Solomon Islands.
		A	i	-	44	49	.24	
		A	M	-	48	6	.91	
		A	M	-	49	21	1.05	
33	Apr. 17 ✓	A	PP	10	14	35	.32	New Britain.
		A	i	-	19	15	.26	
		M	iSS	-	22	15	.20	
		A	iSS	-	22	22	.54	
		M	M	-	29	39	.40	
		M	M	-	30	8	.50	
		A	M	-	33	44	2.09	
34	Apr. 21 ✓	A	i	20	41	42	.22	
		A	e	-	43	54	.16	
		A	i	-	46	32	.29	
		A	M	-	50	55	2.06	
		A	M	-	52	55	1.85	

No.	Date	Inst.	Phase	Time G.M.T.			Amp. cms	Remarks
				h.	m.	s.		
35	Apr. 21	A	iP	22	44	1		Amp. not visible. East Sumatra.
		A	i	-	47	36	.34	
		A	i	-	48	30	.41	
		A	M	-	50	6	1.50	
		A	M	-	52	4	1.21	
36	X	A	iss	13	29	31	.26	Loyalty Islands.
		A	M	-	38	14	1.09	
		A	M	-	39	11	1.15	
		A	M	-	41	15	1.22	
37	Apr. 28	A	M	12	54	18	.40	Peru
		A	M	13	3	44	.55	
		A	M	-	10	7	.69	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 11th (1), 12th (1), 13th (1), 15th (1), 17th (1), 19th (1), 22nd (1), and 27th (1).

By instrument "M" on:- 3rd (1), 13th (1), 14th (1), 21st (2), 22nd (1), 24th (1), and 28th (1).

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38	May 17	M	i	7	19	24	.15	Bismark Sea amp not visible (early phases lost)
		A	i	-	25	8		
		M	M	-	25	46	1.05	
		A	M	-	26	36	2.26	
		A	M	-	26	44	.85	
39	May 18	A	iP	2	42	00		amp not visible New Hebrides Islands
		A	iS	-	49	19	.60	
		M	i	-	52	5	.21	
		A	iss	-	52	36	.55	
		M	e	-	53	49	.13	
		A	Lr	-	55	51	.80	
		M	M	3	0	51	1.31	
		M	M	-	1	1	1.20	
40	May 18	A	iS	12	37	48	.65	New Hebrides aftershock
		A	iss	-	41	15	1.45	
		A	i	-	41	50	1.30	
		M	i	-	45	15	.41	
		A	e	-	45	25	.65	
		M	i	-	46	43	.92	
		M	M	-	49	52	1.11	
		M	M	-	51	7	1.15	
41	May 22	A	iP	15	15	50	.22	Bismark sea
		A	i	-	23	46	.15	
		A	M	-	30	26	1.75	
		A	M	-	30	52	1.75	
		A	M	-	32	30	1.92	
42	May 27	A	i	23	41	51	.17	North coast of New Guinea
		A	iS	-	46	13	.30	
		A	iss	-	48	52	.36	
		A	i	-	49	25	.35	
		A	M	-	57	31	1.43	

No.	Date	Inst.	Phase	Time			Amp	Remarks
				G.M.T.				
				h.	m.	s.	cms.	
43	May 31	A	iP	19	41	35	.55	New Hebrides Islands
		M	eP	-	41	40	.10	
		A	i	-	43	44	2.15	
		M	i	-	44	43	.19	
		M	iS	-	48	50	.37	
		A	iS	-	48	55	1.49	
		A	i	-	49	3	5.13	
		A	iSS	-	52	54	4.60	
		M	i	-	53	6	.40	
		M	iLr	-	56	21	.35	
		A	M	-	57	14	>9.25	
		A	M	-	59	2	>9.25	
		M	M	20	3	39	6.15	
		M	M	-	5	25	6.40	
Tremors and undecipherable disturbances were recorded :-								
By instrument "A" on:- 1st (1), 5th (1), 14th (1), and 15th (1)								
By instrument "M" on:- 19th (1) and 27th (1).								
44	June 3	A	iP	19	40	54	.60	New Hebrides Islands
		A	i	-	43	18	.77	
		A	iS	-	48	20	.65	
		A	iSS	-	51	52	1.01	
		M	M	20	2	26	>8.60	
		A	M	-	2	42	8.95	
45	June 6	A	i	10	20	37	.21	Off coast of Costa Rica
		A	M	-	24	14	.47	
		A	M	-	30	27	.94	
46	June 7	A	i	13	6	41	.26	South of Tasmania
		A	e	-	7	30	.31	
		A	M	-	8	52	1.45	
		M	M	-	9	14	.30	
47	June 12	A	M	21	50	32	.68	Fox Islands - Alcutia Islands.
		A	M	22	2	18	.75	
48	June 13	A	iP	11	3	11	.29	
		A	e	-	3	23	.30	
		A	i	-	4	29	.19	
		A	iS	-	6	45	.44	
		M	i	-	7	4	.20	
		M	M	-	10	3	.52	
		A	M	-	10	7	1.35	
49	June 15th	A	e	17	39	55	.19	Near north coast of New Guinea
		M	e	-	40	48	.11	
		M	i	-	41	14	.16	
		M	M	-	42	34	.52	
		A	M	-	45	10	1.28	
		M	M	-	46	21	.35	
		M	M	-	47	50	.40	
		A	M	-	48	7	1.31	
50	June 25th	A	iP	9	44	2	1.45	Near North coast of New Guinea.
		M	iP	-	44	10	.20	
		A	iPP	-	45	30	2.35	
		M	i	-	49	20	.24	
		A	i	-	49	39	1.41	
		A	iS	-	50	38	1.37	
		A	M	-	55	56	5.80	
		A	M	-	57	22	7.25	
		A	M	-	57	65	>9.25	

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No.	Date	Inst.	Phase	Time			Amp	Remarks
				h.	m.	s.		
50 (Continued)		M	M	9	59	29	4.70	
		A	M	-	59	57	> 5.00	
		M	M	10	0	31	5.50	
		M	M	-	2	26	5.70	
		M	M	-	3	15	6.00	

Tremors and undecipherable disturbances were recorded:-

By Instrument "A" on :- 10th (1), 15th (2), 16th (1), 18th (1),
19th (1), 24th (1), 28th (2), 29th (2),
30th (1).

By Instrument "M" on:- 6th (1), 12th (1), 15th (1), 16th (1),
19th (1), 29th (1).

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No.	Date	Instrument	Phase	Symbol			Amp.	Component	Remarks
		Columbia-Lamont long period seismograph. Milne-Shaw No.27		A	A			Vertical	
				M			North - South		
		Inst.		Time			cms		
				G.M.T.					
				h.	m.	s.			
JULY 1958									
51	July 10	A	iPP	6	36	51	.80		Southeastern Alaska.
		A	i	-	41	30	.85		
		M	i	-	48	35	.35		
		A	i	-	48	59	2.11		
		A	i	-	51	20	1.55		
		M	i	-	53	52	.24		
		A	M	7	27	27	>11.50		
		M	M	-	28	19	1.20		
		A	M	-	30	39	>11.60		
		M	M	-	31	34	1.60		
		M	M	-	33	32	1.74		
		A	M	-	39	26	>11.30		
		A	M	-	45	50	>11.85		
52	July 19th	A	iP	6	37	5	.55		East New-Guinea.
		A	iG	-	44	24	1.17		(about 150 KM).
		A	M	-	52	40	1.50		
		A	M	-	53	4	1.70		
		M	M	-	53	12	.36		
		A	M	-	53	30	2.10		
		M	M	-	55	33	.32		
53	July 19	A	iP	18	23	37	.81		Spice Islands.
		A	iPP	-	24	41	.95		
		A	iS	-	29	5	1.29		
		M	iS	-	29	5	.74		
		M	M	-	35	58	.65		
		A	M	-	38	51	3.70		
		A	M	-	40	0	4.46		
		A	M	-	40	24	4.20		
		M	M	-	40	59	.72		
54	July 26	A	i	17	57	56	.74		
		M	i	-	58	11	.20		
		M	i	18	0	41	.36		
		M	M	-	4	16	.81		
		M	M	-	4	36	.70		
		A	M	-	7	26	3.24		
		A	M	-	9	36	2.57		
55	July 30	A	iP	4	52	34	.25		New-Guinea.
		A	i	-	56	52	.30		
		M	i	-	57	49	.12		
		A	i	-	58	10	.49		
		A	i	5	0	17	.35		
		M	i	-	0	52	.15		
		M	i	-	2	46	.27		
		M	M	-	4	39	.49		
		A	M	-	4	58	1.76		
		A	M	-	7	56	3.37		

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 4th (1), 11th (1), 12th (1), 16th (3),
and 29th (1).

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No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
69 ✓	Sept. 20	A	iP	17	17	40	.27	Solomon Islands.
		A	i	-	17	54	.85	
		A	iPP	-	19	30	.54	
		A	iS	-	24	21	.39	
		A	iSS	-	27	16	1.69	
		A	M	-	35	25	4.75	
		A	M	-	37	4	4.60	
70 ✓	Sept. 22	A	iP	19	15	16	.56	Kermadec Islands Region.
		M	iS	-	22	50	.21	
		A	iS	-	22	51	.70	
		M	i	-	25	3	.14	
		M	M	-	34	30	.15	
		A	M	-	34	41	1.07	
		M	M	-	36	56	.19	
		A	M	-	37	25	1.19	
		M	M	-	39	21	.15	
A	M	-	39	37	1.35			
71 ✓	Sept. 25	A	i	7	39	50	.09	Atlantic Ocean.
		A	e	8	2	16	.13	
		A	i	-	2	59	.30	
		A	e	-	7	54	.15	
		A	M	-	33	35	.74	
		A	M	-	38	40	.91	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd (2), 3rd (1), 12th (1), 14th (2), 18th (2), 24th (1), 25th (2), and 27th (1).

By instrument "M" on:- 7th (1), 12th (1), and 25th (1).

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No.	Date	Instrument	Phase	Symbol			Amp.	Component	Remarks
		Columbia-Lamont long period seismograph. Milne-Shaw No.27		A	M			Vertical	
				Time					
				G.M.T.					
				h.	m.	s.	cms		
<u>JULY 1958</u>									
51	July 10	A	iPP	6	36	51	.80	Southeastern Alaska.	
		A	i	-	41	30	.85		
		M	i	-	48	35	.35		
		A	i	-	48	59	2.11		
		A	i	-	51	20	1.55		
		M	i	-	53	52	.24		
		A	M	7	27	27	11.50		
		M	M	-	28	19	1.20		
		A	M	-	30	39	11.60		
		M	M	-	31	34	1.60		
		M	M	-	33	32	1.74		
		A	M	-	39	26	11.30		
		A	M	-	45	50	11.85		
52	July 19th	A	iP	6	37	5	.55	East New-Guinea.	
		A	iG	-	44	24	1.17	(about 150 KM).	
		A	M	-	52	40	1.50		
		A	M	-	53	4	1.70		
		M	M	-	53	12	.36		
		A	M	-	53	30	2.10		
		M	M	-	55	33	.32		
53	July 19	A	iP	18	23	37	.81	Spice Islands.	
		A	iPP	-	24	41	.95		
		A	iS	-	29	5	1.29		
		M	iS	-	29	5	.74		
		M	M	-	35	58	.65		
		A	M	-	38	51	3.70		
		A	M	-	40	0	4.46		
		A	M	-	40	24	4.20		
		M	M	-	40	59	.72		
54	July 26	A	i	17	57	56	.74		
		M	i	-	58	11	.20		
		M	i	18	0	41	.36		
		M	M	-	4	16	.81		
		M	M	-	4	36	.70		
		A	M	-	7	26	3.24		
		A	M	-	9	36	2.57		
55	July 30	A	iP	4	52	34	.25	New-Guinea.	
		A	i	-	56	52	.30		
		M	i	-	57	49	.12		
		A	i	-	58	10	.49		
		A	i	5	0	17	.35		
		M	i	-	0	52	.15		
		M	i	-	2	46	.27		
		M	M	-	4	39	.49		
		A	M	-	4	58	1.76		
		A	M	-	7	56	3.37		

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 4th (1), 11th (1), 12th (1), 16th (3),
and 29th (1).

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
				<u>AUGUST 1958</u>				
56	Aug. 4	A	iP	4	19	9	.40	Banka Sea. (h about 150KM)
		A	iSP	-	19	53	.34	
		M	i	-	19	55	.15	
		M	iS	-	23	47	.21	
		A	iS	-	23	50	.82	
		A	iSS	-	24	56	.96	
		M	M	-	27	38	.55	
		M	M	-	30	26	.53	
		M	M	-	31	12	.51	
		A	M	-	32	16	1.80	
57	Aug. 12	A	iP	19	9	52	.21	Timor Island.
		A	iS	-	13	56	.26	
		M	i	-	14	21	.11	
		M	i	-	17	10	.15	
		M	M	-	20	30	.25	
		A	M	-	20	36	.92	
		A	M	-	21	43	1.07	
		M	M	-	22	35	.21	
58	Aug. 12	A	i	19	32	2	.50	Molucca Passage.
		A	i	-	33	14	.76	
		M	i	-	33	20	.20	
		A	i	-	33	33	.98	
		M	i	-	36	25	.19	
		A	iS	-	37	16	.34	
		M	i	-	37	20	.26	
		M	M	-	39	55	.37	
		M	M	-	41	5	.35	
		M	M	-	42	13	.37	
		A	M	-	42	37	2.69	
		M	M	-	42	54	.46	
		A	M	-	47	10	3.55	
59	Aug. 15	A	iP	20	8	59	.39	Near East Coast of Kamchatka.
		A	iPP	-	12	49	.30	
		A	i	-	21	14	.75	
		M	i	-	21	19	.15	
		M	i	-	21	50	.16	
		A	e	-	26	6	.34	
		M	M	-	43	30	.14	
		M	M	-	44	34	.15	
		A	M	-	45	14	1.95	
		M	M	-	52	9	.21	
		A	M	-	52	32	1.74	
60	Aug. 15	A	iP	22	35	54	2.16	Celebes.
		M	iP	-	35	56	.24	
		A	i	-	36	23	1.21	
		A	iPP	-	37	11	6.15	
		M	i	-	37	26	.89	
		A	i	-	40	56	2.90	
		M	iS	-	41	25	3.50	
		A	iS	-	41	27	2.26	
		A	M	-	44	14	7.40	
		A	M	-	46	55	7.55	
		A	M	-	48	30	7.44	
		A	M	-	49	30	3.71	
		M	M	-	51	29	4.30	
		A	M	-	55	46	7.35	
61	Aug. 16	A	i	19	57	6	.74	
		A	i	20	0	36	.39	
		A	i	-	2	35	.69	
		A	M	-	6	47	1.35	
		A	M	-	8	44	1.80	

PERTH, WESTERN AUSTRALIA

SEISMOLOGICAL STATION - PERTH OBSERVATORY

Seismological Bulletin for October - December 1958

<u>Instrument</u>	<u>Symbol</u>	<u>Component</u>
Columbia-Lamont long period seismograph.	A	Vertical
Milne-Shaw No.27	M	North - South

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
OCTOBER 1958								
72	Oct. 1st	A	iP	9	36	25	.35	Antarctic Ocean. Southwest of Macquarie Islands.
		M	iS	-	41	50	.34	
		A	iS	-	41	51	.40	
		A	iG	-	43	40	.38	
		A	M	-	46	28	4.40	
		A	M	-	47	52	2.74	
		M	M	-	48	47	.79	
		M	M	-	50	7	.51	
73	Oct. 7th	A	iP	12	40	44	.46	New Britain.
		A	iPP	-	42	22	.30	
		A	iS	-	47	8	.21	
		M	iS	-	47	9	.14	
		M	e	-	50	16	.19	
		A	i	-	50	30	.68	
		M	M	-	57	14	.31	
		M	M	-	59	23	.34	
		A	M	-	59	42	2.35	
		M	M	13	0	30	.44	
		A	M	-	2	23	2.09	
74	Oct. 9th	A	e	12	2	7	.12	Sandwich Islands Region.
		A	M	-	8	46	.69	
		A	M	-	10	4	.74	
		A	M	-	22	53	.60	
75	Oct. 20th	A	iP	1	17	39	1.75	Off South Coast of Java. Amp. not visible.
		M	iP	-	17	39	.19	
		M	iPP	-	18	5	.30	
		A	iPP	-	18	6	1.90	
		A	iS	-	21	51	1.61	
		M	iS	-	21	51		
		M	M	-	24	55	.75	
		M	M	-	25	26	.76	
		A	M	-	25	30	>5.85	
		A	M	-	25	50	>6.20	
76	Oct. 21st	A	iPP	6	24	1	.35	Near northeast coast of New Guinea.
		A	i	-	28	26	.29	
		A	i	-	30	46	.33	
		A	M	-	39	34	1.19	
77	Oct. 21st	A	iP	15	45	36	.36	South of Java.
		A	i	-	49	36	.28	
		A	M	-	52	15	.55	
		A	M	-	53	21	.57	
		A	M	-	58	10	.81	
		A	M	16	6	24	1.21	
78	Oct. 22nd	A	iP	23	51	49	.18	New Hebrides Islands.
		A	ePP	-	53	47	.21	
	Oct. 23rd	A	iSS	0	2	45	.34	
		A	M	-	12	55	2.10	
		A	M	-	13	25	2.60	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 2nd (1), 4th (1), 6th (1), 8th (1),
18th (2), 24th (1), 26th (1), 28th (2),
and 29th (1).

By instrument "M" on:- 9th (1), 18th (1), 21st (2), 22nd (1),
and 29th (1).

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
<u>NOVEMBER 1958</u>								
79	Nov. 1st	A	iP	3	46	40	.26	Bismark Sea.
		A	iPP	-	48	30	.89	
		A	iPPP	-	49	0		Amp. not visible
		M	iS	-	53	12	.24	
		A	i	-	53	19	.47	
		A	i	-	53	41	.31	
		M	i	-	55	56	.25	
		A	iSS	-	56	19	1.48	
		M	M	4	4	24	1.65	
		M	M	-	4	45	1.60	
		A	M	-	5	16	6.60	
		A	M	-	5	34	7.05	
A	M	-	7	45	5.75			
80	Nov. 1st	M	i	6	20	34	.15	
		A	i	-	22	43	.25	
		M	i	-	23	21	.14	
		A	e	-	25	29	.23	
		M	M	-	29	11	.49	
		M	M	-	31	19	.45	
		A	M	-	31	37	1.37	
		A	M	-	32	22	1.63	
M	M	-	32	35	.48			
81.	Nov. 1st	A	iP	12	25	29	.16	New Hebrides Islands.
		A	ePP	-	27	19	.55	
		A	iS	-	32	37	.45	
		M	i	-	37	50	.20	
		A	i	-	40	21	.44	
		M	i	-	41	36	.34	
		A	M	-	45	46	3.45	
		M	M	-	45	52	.45	
		M	M	-	47	38	.81	
		M	M	-	48	21	.62	
		A	M	-	50	35	3.64	
A	M	-	53	11	3.72			
82	Nov. 1st	A	iP	15	59	5	.25	New Hebrides Islands
		A	iPPP	16	1	46	.35	aftershock.
		A	i	-	6	18	.24	
		M	i	-	13	52	.16	
		M	M	-	21	10	.44	
		A	M	-	21	50	1.70	
		A	M	-	23	39	1.80	
82	Nov. 6th	A	iP	23	10	24	6.60	Kurile Islands.
		M	iP	-	10	25	.65	(h about 100KM)
		M	iPP	-	13	45		Amp. not visible
		A	iS	-	20	30	7.00	
		M	iS	-	20	31		Amp. not visible
		A	M	-	35	48	7.05	
		M	M	-	36	30	4.36	
		M	M	-	42	20	5.60	
A	M	-	42	22	7.05			

No.	Date	Inst.	Phase	Time			Amp.	Remarks
				G.M.T.				
				h.	m.	s.	cms	
62	✓ Aug. 17	A	i	18	17	58	.98	Bismark Sea (heavy microseisms).
		M	i	-	20	15	.47	
		A	i	-	20	29	1.26	
		M	M	-	24	9	2.48	
		M	M	-	26	19	1.71	
		A	M	-	26	19	6.90	
		A	M	-	26	33	6.88	
63	✓ Aug. 19	A	iP	21	56	24	.44	New Ireland Island.
		A	iPP	-	58	12	.40	
		A	iSS	22	6	19	.59	
		A	M	-	16	3	1.99	
		A	M	-	16	42	2.10	
		A	M	-	18	9	2.25	
64	✓ Aug. 20	A	iP	3	49	4	.50	New Hebrides Island.
		A	iS	-	56	15	.74	
		A	iSS	4	0	0	2.45	
		M	i	-	3	45	.39	
		A	M	-	9	2	5.20	
		M	M	-	9	44	1.81	
		M	M	-	9	58	2.15	
		A	M	-	9	59	6.01	
		A	M	-	13	29	4.71	
65	✓ Aug. 29	A	iP	12	33	35	.21	
		A	i	-	40	44	.20	
		A	i	-	44	18	.54	
		M	i	-	46	30	.06	
		A	i	-	50	24	.31	
		A	M	-	53	29	1.59	
		M	M	-	54	0	.40	
		A	M	-	54	27	1.74	
		M	M	-	56	29	.44	
<u>SEPTEMBER 1958</u>								
66	Sept. 4	A	i	22	46	27	.37	
		A	i	-	53	50	2.10	
		M	i	-	53	54	.25	
		M	M	23	1	46	.35	
		A	M	-	1	51	2.60	
		M	M	-	2	15	.44	
67	✓ Sept. 11	A	iP	18	9	28	.34	Mindanao (Philippine Islands)
		A	i	-	9	42	.14	
		A	i	-	15	36	.35	
		A	i	-	18	38	.41	
68	✓ Sept. 15	A	iP	19	51	46	.36	Celebes Sea (depth about 600KM).
		A	i	-	54	48	.55	
		A	iS	-	56	32	1.31	
		A	i	20	0	40	1.05	

Tremors and undecipherable disturbances were recorded:-

By instrument "A" on:- 6th (1), 10th (1), 13th (2), 14th (3),
15th (1), 16th (1), 21st (3), and 26th (3).

By instrument "M" on:- 10th (1), 13th (1), 16th (1), 21st (2)
and 26th (2).

