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TERRITORY OF PAPUA AND NEW GUINEA.
VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL BULLETIN. 1957.

The Observatory is on the rim of Blanche Bay caldera, which is composed of beds of pumice dust and ash with occasional interspersed basalt lava flow. The instrument vault (3 metres deep) is concrete lined and the roof forms part of the floor of the Observatory. The seismometers are mounted on a concrete pier set on basalt 1½ metres below the vault floor. The pier is separated from the floor by a gap (8cm) loosely filled with pumice dust.

Latitude - 04°11'33"S. Longitude - 152°10'16"

Height above mean sea level = 183 metres (600 feet)

Instrument	Components	Symbol	Tg.sec.	Tp.sec.
Benioff	Z	Z	0.35	1.26
	NS	N	0.26	1.44
	EW	E	0.29	1.45

Rapindik Station. Supplementary information from seismograms recorded at Rapindik is included in this bulletin.

Latitude - 04°13.7'S. Longitude - 152°11.8'E.

Height above mean sea level - about 3 metres.

Foundation - unconsolidated volcanic ash.

Instrument	Components	Symbol	M(kg)	V	To	Damping
Omori	NS	N	15	11.9	3.6	Air,
	EW	E	15	10.2	3.8	critical

References. Tables - Jeffreys & Bullen, 1940.

U.S. Dept. of Commerce Special Publication No.254

The station is maintained by the Administration of the Territory of Papua and New Guinea for vulcanological and seismological observations.

Communications should be addressed to:-

Vulcanologist,
Rabaul,
Territory of Papua
and New Guinea.

G. A. Taylor,
Vulcanologist.

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL OBSERVATORY. JANUARY, 1957

1st	eP	Z	01	06	19	U.S.C.G.S. 53½°N, 159°E.
	i!				20	Kamchatka
						H = 00 56 40
						h approx. = 150 kms.
2nd	eP	Z	02	28	22	U.S.C.G.S. 52½°N, 168°W.
	e	Z			35	Aleutian Is. - foreshock
	iPcP	Z			49	H = 02 17 35
	i	Z		29	20	Mag. = 6¾ (Pas)
	ePP	Z		31	00	
	ePPP	Z			59	
	iP	Z	03	59	45	U.S.C.G.S. 53°N, 168°W.
						Aleutian Is.
						H = 03 48 44
						Mag. = 7-7¼ (Pas)
	iP	Z	21	26	39	Felt: Awelkon
	i	E		27	49	Int. 2(MM)
						5°40'S, 147°50'E.
3rd	eP	Z	00	52	05	U.S.C.G.S. 53°N, 168°W.
	i	Z			12	Aleutian Is.
						H = 00 41 02
	i!P	Z	12	56	45.C.	U.S.C.G.S. 44°N, 130°E.
	i	Z		57	09	Manchuria
	e	Z		58	24	H = 12 48 27
	ipP	Z			39	h approx. = 600 kms.
	e	Z		59	21	Mag. = 7 (Pas)
	eScP	Z	13	00	48	
	eS	Z		03	26	
	esS	E		06	58	
	iP	Z	13	51	46	U.S.C.G.S. 44°N, 130°E.
	epP	Z		53	39	Manchuria - aftershock
						H = 13 43 29
						h approx. = 600 kms.
4th	eP	Z	13	40	53	U.S.C.G.S.
	i	Z		41	49	Solomons Is.
						H = 13 38 00
						h approx. = 100 kms.
	e	Z	15	52	35	U.S.C.G.S.
	i	Z		53	16	Solomon Is.
	i!	E			30	H = 15 51 25
5th	Nil					
6th	i!P	Z	01	44	29.C.	U.S.C.G.S. 26°N, 126°E.
						Ryukyu Is.
						H = 01 36 58
	eP	Z	06	55	43	B.C.I.S.
	i	Z			47	Solomon Is.
	i!	E		56	39	H = 06 54.6m.
						Felt: Buin
						Int. 4(MM)
						6°50'S, 155°45'E.
	iP	Z	15	45	15.C.	
	i!S	E			50	

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6th cont.	iP	Z	15	50	25	Aftershock of the preceding shock.
	i!	Z			29	
	iS	E		50	55	
	i!	E		51	00	
7th	iP	Z	12	08	52	
	i	Z		09	16	
	iS	NE			46	
	iP	Z	16	50	38	U.S.C.G.S. 8½°N, 126°E. Mindanao H = 16 45 02 h approx. = 250 kms.
	iP	Z	18	53	15	
	i	Z		54	39	
8th	eP	Z	17	40	25	U.S.C.G.S. 52½°N, 168°W. Aleutian Is. H = 17 29 36
	e	Z	18	29	43	
9th	eP	Z	01	49	02	U.S.C.G.S. 54°N, 169°E. Komandorskie Is. H = 01 38 50
	iP	Z	06	16	58	Felt: Awelkon Int. 2(MM) 5°40'S, 147°50'E.
	i	Z		18	03	U.S.C.G.S. New Britain region. H = 06 15 37
10th	Nil					
11th	e(P)	Omori	11	59	40	Felt: Warangoi Int. 1-2(?) 4°30'S, 152°20'E.
	iP	Z	23	39	18	U.S.C.G.S. 27°N, 127½°E. Ryukyu Is. H = 23 31 50
12th) 13th)	Nil					
14th	i	Z	14	26	06	(U.S.C.G.S. 22°S, 179°W.
	e	Z		27	39	Fiji Is. region
	i	Z		30	24	H = 14 20 17)
	i	E		31	26	
	i	Z		35	28	
15th	iP	Z	01	00	16	
	i	Z	20	16	52	
	iP	Z	20	27	28	U.S.C.G.S. 6½°N, 127°E.
	ePP	Z		28	18	near Mindanao,
	eS	Z		32	10	H = 20 21 45 h approx. = 100 kms.
16th	Nil					

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17th	iP	Z	00	40	36	
	i	Z			42	
	eP	Z	07	28	40	U.S.C.G.S. 7½°S, 129½°E.
						Banda Sea
						H = 07 23 43
						h approx. = 100 kms.
	i	Z	10	55	02	
	i	Z			37	
	eP	Z	11	32	40	U.S.C.G.S.
	i	Z			56	Flores Is.
	iPP	E		33	50	H = 11 26 17
	iP	Z	22	33	48	U.S.C.G.S. 33°N, 137½°E.
	i	Z			59	Honshu
						H = 22 26 10
18th	iP	Z	05	33	37.7	B.C.I.S.
	i!	Z			38.1	New Britain region
						H = 05 32.8m.
						Felt: Lindenhafen
						Int. 3(MM)
						6°10'S, 150°35'E.
						Felt: Popondetta
						Int. 2(MM)
						8°45'S, 148°15'E.
	iP	Z	11	46	07	
19th	iP	Z	05	22	25	U.S.C.G.S. 21½°S, 179°W.
	iPcP	Z		24	52	Fiji Is.
	iScP	Z		27	52	H = 05 16 37
						h approx. = 650 kms.
						Mag. = 6½ (Pas)
	eP	Omori	18	28.8	-	Felt: Bialla
						Int. 3(MM)
						5°20'S, 151°05'E.
						Felt: Karlai
						Int. 3(MM)
						5°05'S, 152°00'E.
						Felt: Warangoi
						Int. 2(MM)
						4°30'S, 152°20'E.
						Felt: Tol
						Int. 2(MM)
						5°00'S, 152°05'E.

No record on Benioff Seismograph for the rest of the month.

OMORI.

24th	eP		01	12	47	U.S.C.G.S. 6°S, 147°E.
	e(S)			13	50	New Guinea
						H = 01 11 11
						h approx. = 100 kms.
						Felt: Wau
						Int. 4(MM)
						7°20'S, 146°45'E.
						Felt: Minj
						Int. 3-4(MM)
						5°50'S, 144°40'E.
						Felt: Lae
						Int. 3-4(MM)
						6°45'S, 147°00'E.
						Felt: Karkar
						Int. 3-4(MM)
						4°40'S, 146°00'E.
	eP		16	41	(41)	

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25th	eL	19	14	07	Long Period Waves
26th	e	23	45	26	

Tremors felt in the Territory, January, 1957.

Date	Time G.M.T.	Intensity Mercalli Modified	Locality	Latitude South	Longitude East
				o '	o '
Jan. 1st	0039	2	Warangoi	04 30	152 20
2nd	2130	2	Awelkon	05 40	147 50
6th	0655	4	Buin	06 50	155 45
9th	0620	2	Awelkon	05 40	147 50
	0754	3	"	"	"
	1140	1	"	"	"
11th	1045	2	Pomio	05 30	151 30
	1137	2	Kandrian	06 15	149 35
	1205	1 - 2(?)	Warangoi	04 30	152 20
16th	0824	2	Kandrian	06 15	149 35
17th	1250	1	Tol	05 00	152 05
18th	0534	3	Lindenhafen	06 10	150 35
	0535	2	Popondetta	08 45	148 15
	c:1130	2	Kandrian	06 15	149 35
	1702	3	Buin	06 50	155 45
19th	1830	3	Karlai	05 05	152 00
	1828	3	Bialla	05 20	151 05
	1830	2	Tol	05 00	152 05
	1821	2	Warangoi	04 30	152 20
24th	0115	4(E-W)	Wau	07 20	146 45
	0112	3 - 4	Karkar	04 40	146 00
	0112	3 - 4(N-S)	Minj	05 50	144 40
	0109	3 - 4	Lae	06 45	147 00
	0115	3	Aiome	05 10	144 45
	0112	3	Saidor	05 35	146 30
	0116	3	Popondetta	08 45	148 15

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Date	Time G.M.T.	Intensity Mercalli Modified	Locality	Latitude South	Longitude East
				o '	o '
24th cont.	0115	3	Madang	05 15	145 50
	0108	3	Awelkon	05 40	147 50
	0112	1	Ihu	07 55	145 25
30th	1335.	-	Nr. Blup Blup Is. (M.V."Koro")	03 30	144 35

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ROYAL OBSERVATORY
15 FEB 1962
EDINBURGH

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL BULLETIN. FEBRUARY, 1957.

No record on Benioff Seismographs
1st - 9th February (0709 hrs.)

OMORI.

6th	e		04	22	07	
7th	e		16	43	51	
8th	e		03	11	09	
	eP		08	28	55	Felt: Rabaul Int. 2(MM) 4°11'S, 152°10'E.
	e		09	13	55	
9th	iP	Z	08	11	53	U.S.C.G.S. 11½°N, 138½°E. Caroline Is. H = 08 07 15
	i!P	Z	13	36	38½ D.	U.S.C.G.S. 34°S, 180°.
	i	E		37	12	New Zealand H = 13 29 18 h approx. = 150 kms. Mag. = 6¼ (Pas)
10th	eP	Z	22	38	24	U.S.C.G.S. 10°N, 126°E. Mindanao - foreshock H = 22 32 15 Mag. 6½-6¾ (Pas)
	eP	Z	22	57	01	U.S.C.G.S. 10½°N, 126½°E.
	iPP	Z			51	Mindanao H = 22 50 52 Mag. = 6¾ (Pas).
11th	iP	Z	01	20	47	U.S.C.G.S. 10°N, 126°E.
	e	Z		21	10	Mindanao - aftershock H = 01 14 44 Mag. = 6½ (Pas)
	eP	Z	14	31	46	U.S.C.G.S. 10°N, 126°E.
	e			31	55	Mindanao - aftershock H = 14 25 38 Mag. 6½ (Pas)
12th	iP	Z	23	47	51	
	i	Z			55	
13th	eP	Z	00	35	52	U.S.C.G.S. 10°N, 126½°E. Mindanao - aftershock H = 00 29 48
	iP	Z	12	42	18	U.S.C.G.S. 18°S, 169°E. New Hebrides Is. H = 12 37 14
	iP	Z	20	20	49½	Felt: Tol Int. 1(MM) 5900'S, 152°05'E. S-P (Omori) = 15 secs.

Compression from south-east

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14th	i!P	Z	06	44	31½	Felt: Rabaul Int. 2-3(MM) 4°11'S, 152°10'E. Felt: Kokopo Int. 2(MM) 4°20'S, 152°15'E.
	Compression from just south of east					
15th	Nil					
16th	iP	Z	02	47	00 D.	B.C.I.S. New Britain H = 02 46 34 Felt: Rabaul Int. 3(MM) 4°11'S, 152°10'E. Felt: Karoola Int. 3(MM) 5°10'S, 154°35'E. Felt: Warangoi Int. 2(MM) 4°30'S, 152°20'E.
	Dilatation to south-east					
17th	eP	Z	16	08	59	U.S.C.G.S. 4½°S, 125½°E. Banda Sea H = 16 04 02
18th	Nil					
19th	i!P	Z	04	59	00	Felt: Pomio Int. 1-2(MM) 5°30'S, 151°30'E.
	Dilatation to south-east					
	eP	Z	16	54	11	
	i	Z			25	
	eP	Z	17	01	00	Felt: Tari Int. 4(MM) 5°50'S, 143°00'E. Felt: Telefomin 5°10'S, 141°35'E.
	iP	Z			01½	
	i	Z			09½	
	i!	Z			14½	
	e	Z			47	
	i	N			53½	
	eP	Z	20	09	19	U.S.C.G.S. 56°N, 164°E. Kamchatka H = 19 58 55
	e	Z			38	
20th	iP	Z	13	09	30	U.S.C.G.S. 53½°N, 160°E. Kamchatka H = 12 59 44 h approx. = 60 kms.
	e	Z			42	
	iP	Z	22	08	01	U.S.C.G.S. 2°N, 97°E. Sumatra H = 21 58 23
	i	Z			11½	
21st	iP	Z	19	43	37	U.S.C.G.S. 31°S, 178°W. Kermadec Is. H = 19 36 05
22nd	iP	Z	00	37	53	Wellington 39°.2S, 175°.1E. North Island New Zealand H = 00 30 11

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23rd	iP	Z	00	51	20 C.	
	i!	NE			41½	
	eP	Z	18	59	08	U.S.C.G.S. 12°N, 141°E. Caroline Is. H = 18 54 37
	iP	Z	20	33	54 D.	U.S.C.G.S. 24°N, 122°E.
	i	Z			58½	Formosa
	i	Z		34	03	H = 20 26 12
	i	Z			14½	Mag. 7-7¼ (Pas)
	i	Z		35	22	
	e	E		38	01	
	e	N			30	
	e	N			44	
	eScP	Z		39	38	
	i	Z		40	23	
	e	Z		41	39	
	e	Z	21	06	02	
	e	Z		15	11	
24th	iP	Z	05	37	39.9D.	Felt: Buin Int. 1(MM) 6°50'S, 155°45'E. S-P (Omori) = 23 secs.
	iP	Z	17	32	12	
	iP	Z	21	55	09	U.S.C.G.S. 2(6)°N, 121½°E. Formosa - aftershock H = 21 47 26
25th	iP	Z	13	26	21	U.S.C.G.S. 6°S, 130°E.
	i	Z			34	Banda Sea.
	eScP	Z		33	33	H = 13 21 17
26th	iP	Z	13	57	43½	Felt: Awelkon Int. 3(MM) 5°40'S, 147°50'E.
	i	NE		58	54	
	Compression from west					
27th	eP	Z	15	09	08	U.S.C.G.S. 24°N, 121½°E. Formosa H = 15 01 22
	eP	Z	16	11	51	U.S.C.G.S. 11½°S, 167°E.
	e	Z		12	41	Santa Cruz Is. H = 16 07 58
28th	i	Z	16	59	24	

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Tremors felt in the Territory, February, 1957.

Date	Time G.M.T.	Intensity Mercalli Modified	Locality	Latitude South	Longitude East
				o '	o '
8th	0829	2	Rabaul	04 11	152 10
10th	0001	1	Wau	07 20	146 45
	2142	1	Pomio	05 30	151 30
11th	0938	1	Wau	07 20	146 45
13th	0200	2	Budoia	09 43	150 50
	2021	1	Tol	05 00	152 05
14th	0645	2 - 3	Rabaul	04 11	152 10
		2	Kokopo	04 20	152 15
16th	0247	3	Rabaul	04 11	152 10
		3	Karoola	05 10	151 35
		2	Warangoi	04 30	152 20
	0315?	2	Kokopo	04 20	152 15
18th	1345	2	Budoia	09 43	150 50
19th	c:0500	1 - 2	Pomio	05 30	151 30
	1600(?)	3	Popondetta	08 45	148 15
	1701	4	Tari	05 50	143 00
		-	Telefomin	05 10	141 35
21st	0515	2	Kandrian	06 15	149 35
	1526	4	Tari	05 50	143 00
24th	0533	1	Buin	06 50	155 45
	1325	3	Karkar	04 40	146 00
26th	1358	3	Awelkon	05 40	147 50

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15 FEB 1962
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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL BULLETIN. MARCH, 1957.

1st	iP	Z	21	07	38	Dilatation. Deep?
	i!	Z			41	
	iS	-		08	25	
	ei	-			32	
2nd	iP!	Z	08	11	04	U.S.C.G.S. 6°S, 151°E.
	Dilatation to south-south-east					Nr. coast of New Britain
						H = 08 10 24
						Felt: Rabaul
						Int. 4(MM)
						4°11'S, 152°10'E.
						Felt: Pomio (?)
						Int. 3(MM)
						5°30'S, 151°30'E.
						Felt: Ulamona
						Int. 2(MM)
						5°00'S, 151°15'E.
						Felt: Lindenhafen
						Int. 1-2(MM)
						6°10'S, 150°35'E.
	e(P)	Z	10	56	46	
	i				53	
	e		(11)	04	30	
	e				57	
3rd	eP	Z	00	24	30	B.C.I.S.
	i				31½	Solomon Is.
	i(S)			25	29½	H = 00 23.2m.
	iP	Z	10	45	11½	
	eP	Z	20	50	48½	U.S.C.G.S. 9½°S, 154°E.
	i				50	Nr. E. coast of New Guinea
	e			51.6	-	H = 20 49 30
	i			51	41	h approx. = 100 kms.
	i				51	
	iS	E			53.7	
	iP	Z	23	59	18½	Felt: Rabaul
	Dilatation ? obscured by microseisms					Int. 1(MM)
						4°11'S, 152°10'E.
	i!	Z			19½	S-P (Omori) = 25 secs.
4th	iP!	Z	00	11	53½	Dilatation. Deep.
	iS	NE		12	18	Aftershock
	iP!	Z	00	15	32½	Dilatation. Deep
	iS!	NE			57½	Aftershock
	iP!	Z	17	01	25	Compression. Deep.
	i!	Z			39	Aftershock.
	iS	N			51½	
	iS	E			55½	
5th	e(PKP)	Z	12	44	27	U.S.C.G.S. 33°N, 34½°W.
						North Atlantic
						H = 12 24 35
						Mag. = 6½-6¾ (Pas)

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5th. cont.	eP	Z	19	07	50	U.S.C.G.S. 14°S, 167½°E.
	i	Z			52	New Hebrides Is.
	i	Z		08	20½	H = 19 03 30
	i	Z			23½	
	i	Z			58½	
	e(S)	NE		11	22	
	e	NE			54	
	e(PcP)	NE		12	09	
6th	eP	Z	11	36	02	U.S.C.G.S. 49°N, 155°E.
	e				16	Kurile Is.
						H = 11 26 44
7th	iP	Z	05	43	45	
	i(S)	NE		44	10	
	e	Z	10	53	(17½)	U.S.C.G.S. 19°S, 178½°W.
	i				22.6	Fiji Is.
						H = 10 47 25
						h approx. = 550 kms.
	e	Z	23	38	19	(Felt: Telefomin Int.3(MM) 5°10'S, 141°35'E. Felt: Tari Int. 2(MM) 5°50'S, 143°00'E.)
8th	ePKP	Z	12	33	13	B.C.I.S. 39°.5N, 22°.8E.
	ePP	Z		34	54	Thessaly - foreshock
	ePPS	Z		46	17	H = 12 14 14
	ePKP	Z	12	40	09½	B.C.I.S. 39°.5N, 22°.8E.
	ePP	Z		41	36	Thessaly
	i(PP)	Z			51.5	H = 12 21 14
	ePPS	Z		53	08	Mag. = 6¼ (Pas)
	iPPS	N			13.7	
	eP	Z	16	40	57	U.S.C.G.S. 23°S, 179°E.
	i	Z			58½	Fiji Is.
	i	Z		42	34.7	H = 16 35 11
	e(PP)	N		43	00	h approx. = 600 kms.
	i(PcP)	ZN			30	
	e	N		45	13	
	e(S)	N			30	
	e(S)	E			32	
	e	Z		46	22	
	i	Z			23	
9th	eP	Z	14	32	47	U.S.C.G.S. 51°3N, 175°8 W.
	i			33	04	Andreanov Is.
	i(PcP)				18	H = 14 22 27.5
	i				32	Mag. = 7¾-8 (Pas)
	i			34	17	
	i(PP)	Z			56	
	i(PPP)	Z		36	21.8	
	e				23	
	e(ScP)			37	29	
	e(S)	NE		41	(25)	
	e				44	
	e			42	01	
	i				26	
	i			43	33	
	i			44	56	
	e			46	31	
	e			47	35	
	e			48	46	
	e			50.4		
	e(L)			52.1		

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9th cont.	eP	15	02	15	
	e		03	06	
	eP	15	07	44	
	e		08	27	
	e(L)	15.	09.1	-	
	e	15	12	48	
	i	15	13	00	
	e	15	15.5	-	
	i	15	18	04	
	iP!	15	20	52	B.C.I.S.
			Compression		Andreanov Is.
	i		21	04.5	H = 15 10 12
	iP	15	27	44½	
			Compression		
	e(P)	15	48	59	
	e		50	26	
	iP	15	52	05	U.S.C.G.S. 50½°N, 177°W.
	i			09½	Andreanov Is.
	i!			13	H = 15 41 50
	i(PcP)			25	
	i(PP)		54	22	
	eP	15	58	38	B.C.I.S.
	i			53½	Aleutian Is.
	e	(16)	00.5	-	H = 15 48.2m.
	e(P)	16	16	50	B.C.I.S.
					Fox Is.
					H = 16 06 12
	e	16	21	30	
	e(P)	16	26	45	B.C.I.S.
	e		27	03	Andreanov Is.
					H = 16 16 26
	e(PPP)	16	35	46	(B.C.I.S.
					Andreanov Is.
					H = 16 21.8m.)
	eP	16	42	45	U.S.C.G.S. 51°N, 176°W.
	i			57	H = 16 32 30
	eP	16	55	46	U.S.C.G.S. 51½°N, 174°W.
	e		56	09	Andreanov Is.
	e		57.5	-	H = 16 45 26
	eP	17	20	39	U.S.C.G.S. 51½°N, 172½°W.
					Andreanov Is.
					H = 17 10 13
	eP	18	08	24	B.C.I.S. 55¾°N, 156°W.
					Unimak Is.
					H = 17 57 25
	eP	19	24	22	B.C.I.S. 53°N, 169°W.
	i		25	03	Fox Is.
					H = 19 13 33
	eP	19	45	27	B.C.I.S. 53°N, 172½°W.
					Andreanov Is.
					H = 19 34 54

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9th cont.	eP	19	48	10	U.S.C.G.S. 51°N, 173°W.
	e		49	00	Andreanov Is.
					H = 19 37 31
	eP	20	11	27	U.S.C.G.S. 51½°N, 170½°W.
					Fox Is.
					H = 20 00 56
	eP	20	17	46	B.C.I.S. 51½°N, 171°W.
					Fox Is.
					H = 20 07 01
	eP	20	32	32	U.S.C.G.S. 52°N, 169½°W.
					Fox Is.
					H = 20 22 02
	eP	20	41	43	
	e		42	26	
	eP	20	49	57	U.S.C.G.S. 52½°N, 169½°W.
					Fox Is.
					H = 20 39 15
					Mag. = 6¾-7 (Pas)
	e(P)	21	18.7	-	
	e		19	09	
	eP	22	07	11	U.S.C.G.S 53°N, 168°W.
	e			22	Fox Is.
					H = 21 56 24
	eP	23	10	02	U.S.C.G.S. 51½°N, 171°W.
					Fox Is.
					H = 22 59 26
	eP	23	20	(02)	B.C.I.S.
					Fox Is.
					H = 23 09 25
	eP	23	31	(32)	B.C.I.S. 52¼°N, 174¾°W.
					Andreanov Is.
					H = 23 20 58
	e(P)	23	32	44½	
10th	e(P)	00	17	13½	B.C.I.S.
					Fox Is.
					H = 00 06 32
	e(P)	00	21	(47)	B.C.I.S. 52¾°N, 173¾°W.
					Andreanov Is.
					H = 00 11 29
	eP	01	27	(31)	B.C.I.S. 53½°N, 177¼°W.
					Andreanov Is.
					H = 01 17 00
	eP	01	33	(02)	B.C.I.S. 53°N, 168½°W.
					Fox Is.
					H = 01 22 07
	iP	01	53	52.0	B.C.I.S.
					Andreanov Is.
					H = 01 43.5m.
	eP	02	33	(00)	B.C.I.S. 53°N, 168½°W.
					Fox Is.
					H = 02 22 30

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10th cont.	eP	02	46	41	
	eP	03	03	33	J.M.A. 41°6N, 143°8E. Hokkaido H = 02 55 07 h approx. = 60 kms.
	e(P)	03	16	38	U.S.C.G.S. 52°N, 176°W.
	i		20	07	Andreanov Is. H = 03 06 02 Mag. = 6½-6¾ (Pas)
	iP	03	19	38	U.S.C.G.S. 51½°N, 174°W. Andreanov Is. H = 03 08 55
	eP	03	42	41	B.C.I.S. Discordant data
	e		48.6		2 earthquakes, one near 34°N, 72°E.
	eP	04	46	(46)	B.C.I.S.
	e		47	42	Aleutian Is. Rather discordant data. H = 04 37.2m.
	eP	05	43	52	U.S.C.G.S. 52°N, 174°W. Andreanov Is. H = 05 33 27
	eP	07	33	37	U.S.C.G.S. 52°N, 176°W. Andreanov Is. H = 07 23 18
	eP	07	42	21	U.S.C.G.S. 53°N, 168°W. Fox Is. H = 07 31 36
	eP	11	31	21	U.S.C.G.S. 52°N, 171°W. Fox Is. H = 11 20 45
	eP	11	45	04	B.C.I.S. Aleutian Is. H = 11 36.0m.
	eP	12	22	40	U.S.C.G.S.
	e		23	22	Andreanov Is.
	e			38	H = 12 12 18
	eP	12	46	37	U.S.C.G.S. 51°N, 171°W.
	i			47	Fox Is. H = 12 36 04
	eP	12	55	45	U.S.C.G.S. 51°N, 177°W.
	e			57	Andreanov Is. H = 12 45 31
	eP	13	20	22	U.S.C.G.S. 51½°N, 180°. Andreanov Is. H = 13 10 13
	iP	13	38	43	U.S.C.G.S. 51½°N, 179°W. Andreanov Is. H = 13 28 30
	eP	14	19	40	
	eP	14	55	48	B.C.I.S. Aleutian Is. H = 14 45.9m.

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10th cont.	eP	15	36	51	U.S.C.G.S. 52°N, 173°W.
	e(PP)		39	05	Andreanov Is.
	e(S)		45.5		H = 15 26 23
	eP	15	59	24	B.C.I.S.
	e	16	05	57	Fox Is.
					H = 15 48 36
	e(P)	16	41	46	
	eP	16	48	13	U.S.C.G.S. 51½°N, 173½°W.
	i			51.2	Andreanov Is.
					H = 16 37 45
	eP	16	50	10	B.C.I.S.
	i			53	Andreanov Is.
					H = 16 39.8m.
	eP	17	56	00	B.C.I.S.
					Aleutian Is.
					H = 17 45.8m.
	eP	19	28	(42)	U.S.C.G.S. 51°N, 177°W.
					Andreanov Is.
					H = 19 18 30
	eP	19	51	21	U.S.C.G.S. 52°N, 173°W.
					Andreanov Is.
					H = 19 40 55
	eP	21	07	(38)	B.C.I.S. 54°N, 167°W.
					Fox Is.
					H = 20 57 04
11th	eP	00	18	59	U.S.C.G.S. 52°N, 169°W.
					Fox Is.
					H = 00 08 07
	eP	03	22	55	U.S.C.G.S. 51°N, 177°W.
	i		23	01	Andreanov Is.
	i			13	H = 03 12 41
	e		24	40	Mag. = 6¾-7 (Pas)
	eP	08	48	06½	U.S.C.G.S. 53°N, 168°W.
					Fox Is.
					H = 08 37 15
	eP	10	09	26	U.S.C.G.S. 53°N, 164½°W.
	i			33	Fox Is.
	ePcP			55	H = 09 58 42
	e(PP)		11	29	Mag. = 6¾-7 (Pas)
	e			52	
	ePPP		13	49	
	e(S)		18.2		
	e		18.7		
	e	10	38	24	
	i(P)	11	05	19	Felt: Aropa
	i			29	Int. 1(MM)
	iS		06	10	6°25'S, 155°50'E.
	eP	12	18	48	U.S.C.G.S. 2°N, 97°E.
	i			50	Sumatra
	e		19	55	H = 12 09 10
	eS		26.6	-	

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11th cont.	eP	15	05	30	U.S.C.G.S. 51½°N, 178½°W.
	i			34	Andreanov Is.
	iPcP			48	H = 14 55 19
	i		06	48	Mag. = 6¾ (Pas)
	ePP		07	32	
	e			55	
	eS		13	50	
	e	15	34	57	
	iP	15	46	05	U.S.C.G.S. 51°N, 179°W.
	i		47	06	Andreanov Is.
					H = 15 35 50
					Mag. = 6½ (Pas)
	eP	20	48	49	B.C.I.S.
					Andreanov Is.
					H = 20 38.5m.
12th	iP	01	13	14	U.S.C.G.S. 52°N, 174½°W.
					Andreanov Is.
					H = 01 02 33
	eiP	07	39	16	U.S.C.G.S. 51½°N, 173½°W.
					Andreanov Is.
					H = 07 28 46
	iP	07	49	31	U.S.C.G.S. 52°N, 178°W.
	i			42	Andreanov Is.
	i			55	H = 07 39 17
	e(S)		58.0	-	Mag. 6¼-6½ (Pas)
	e	(08)	08.6	-	
	eP	08	13	26	U.S.C.G.S. 51°N. 178°W.
					Andreanov Is.
					H = 08 03 11
	e(P)	08	56	(29)	B.C.I.S.
					Andreanov Is.
					H = 08 46.8m.
	e(P)	10	48	(54)	U.S.C.G.S. 51½°N, 174½°W.
					Andreanov Is.
					H = 10 38 30
	eP	11	55	08	U.S.C.G.S. 51°N, 177°W.
	i			14	Andreanov Is.
	i			22	H = 11 44 50
	iPcP			52	Mag. 7-7¼ (Pas)
	i			58	
	i		56	28	
	ePP		57	22	
	e		59	34	
	e	(12)	02.6	-	
	ePPS		03	53	
	e(SS)		07	02	
	eP	12	13	16	B.C.I.S. 51°N, 177°W.
					Andreanov Is.
					H = 12 03 01
	e	12	24	28	B.C.I.S.
	e			41	Discordant data.
	e(P)	12	56	58	U.S.C.G.S. 53°N, 168½°W.
	i		57	01	Fox Is.
	i			15	H = 12 46 12
	e		59	27	
	eS	(13)	05.8	-	
	e(L)		25.9		

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12th cont.	eP	14	42	24	B.C.I.S. 52½°N, 178½°W. Andreanov Is. H = 14 32 16
	eiP	15	40	27	B.C.I.S. Andreanov Is. H = 15 30.2m.
	eP	15	51	26	B.C.I.S. 52½°N, 167½°W. Fox Is. H = 15 40 50
	eP	16	36	27	U.S.C.G.S. 14½°S, 168°E.
	i			32	New Hebrides Is.
	iPP			43	H = 16 32 05
	ei			57	
	i		37	26	
	eS		39	59	
	eSS		40	26	
	iPcP			55	
	e	17	10.8	-	U.S.C.G.S. 51½°N, 175°W.
	i		11	01	Andreanov Is. H = 17 00 21
	iP	17	27	33	U.S.C.G.S. 21½°S, 17(9)°W.
	eiPcP		29	58	Fiji Is. h approx. = 700kms.
	e(S)		32	06	H = 17 21 47
	iP	18	34	29	U.S.C.G.S. 18°S, 178½°W. Fiji Is.
		Dilatation			
	i			36	H = 18 28 50
	eS		39.0	-	h approx. = 650 kms.
	i		39	50	
	e(ScS)		43.8	-	
	iP	19	17	17	U.S.C.G.S. 16°S, 176½°W. Fiji Is. H = 19 11 16
		Dilatation (to east?)			
	i			25	h approx. = 400 kms.
	e(pP)		18	48	
	ei(PcP)		19	56	
	eS		22	05	
	i(ScP)		23	02	
	e(PcS)			41	
	e(ScS)		27	07	
	eP	20	11	(28)	U.S.C.G.S. 54°N, 165°W. Unimak Is. H = 20 00 30
	i	23	56	05½	U.S.C.G.S. 52°N, 174°W. Andreanov Is. H = 23 45 25
13th	iP	02	59	05	U.S.C.G.S. 52°N, 171½°W. Andreanov Is. H = 02 48 20
	iP!	04	31	55	Dilatation. Deep.
	iS		32	33½	Felt: Linga Linga
	i			44	Int. 2(MM) 5°35'S, 149°45'E.
	iP	09	18	42	Wellington. 38°.7S, 175°.6E.
	i			48½	New Zealand
	ipP		19	40	H = 09 11 30
	i		20	12	h approx. = 270 kms.
	e(PcP)			35	
	eS		24	25	

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13th cont.	eP	11	48	(04)	U.S.C.G.S. 51°N, 177°W. Andreanov Is. H = 11 37 49
	eP	12	08	(26)	U.S.C.G.S. 52°N, 173°W. Andreanov Is. H = 11 57 58
	e(P)	15	12	52	B.C.I.S. Aleutian Is. H = 15 03.1m.
	iP	15	52	19½	U.S.C.G.S. 51½°N, 179°W. Andreanov Is. H = 15 42 05 Mag. = 6¾ (Pas)
		Dilatation			
	i			48	
	iPcP		53	04	
	e		54	53	
	e		55	53	
	eS	(16)	00	34	
	e	16	20	(37)	
	e		21	(36)	
	i			56	
	e		22	34	
	eP	17	54	11	U.S.C.G.S. 51°N, 175°W. Andreanov Is. H = 17 43 40
	e(P)	19	07	(04)	U.S.C.G.S. 52½°N, 168°W. Fox Is. H = 18 56 33
	eP	20	10	30	U.S.C.G.S. 54°N, 166°W. Fox Is. H = 19 59 23
	e			46	
	e	23	20	(50)	
	i			57	
14th	e(P)	10	45	(17)	U.S.C.G.S. Fox Is. H = 10 34 33
	eiP	11	19	25	
	e(P)	12	40	(11)	U.S.C.G.S. 53°N, 166½°W. Fox Is. H = 12 29 32
	iP	12	49	11	
		Compression			
	i(S)			46	
	eiP	14	58	00	U.S.C.G.S. 51½°N, 177°W. Andreanov Is. H = 14 47 45 Mag. = 7½ (Pas)
	i			12	
	i			31½	
	i(PcP)		59	00	
	e(PPP)	(15)	01	58	
	e(S)		06.4	-	
	eP	15	15	21	B.C.I.S. 51½°N, 177°W. Andreanov Is. - aftershock H = 15 05 06
?(	i			31	
(	e	15	20	40	
	e	15	27	16	

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14th cont.	e	15	32	35	
	e(P)	16	01	15	U.S.C.G.S. 51½°N, 177½°W. Andreanov Is. H = 15 51 00
	e(P)	16	11	(54)	B.C.I.S. 51¼°N, 176¼°W. Andreanov Is. H = 16 01 37
15th	e	02	51	(44)	
	eP	03	02	59	U.S.C.G.S. 53°N, 167°W.
	i		03	01	Fox Is. Mag. 6¾(Pas)
	e		04	45	H = 02 52 08
	eP	12	07	52	U.S.C.G.S. 51°N, 173°W. Andreanov Is. H = 11 57 28
	eP	17	25	13	
	i			14½	
	i			15½	
	i			18	
	e		31	01	
16th	eP	02	44	20	U.S.C.G.S. 52°N, 179°W.
	i			28	Andreanov Is.
	i			45	H = 02 34 12
	e(PP)		46	51	Mag. 6¾ (Pas)
	i		47	07	
	e(L)	(03)	04.1	-	
	e	03	13	46	
17th	eiP	00	02	37	U.S.C.G.S. 27°N, 127½°E.
	e		15	07	Ryuku Is. H = 23 55 08 (16th March)
	eiP	08	03	58	U.S.C.G.S. 51°N, 179°W.
	i		04	12	Andreanov Is. H = 07 53 51
	eP	15	22	26	U.S.C.G.S. 53°N, 167½°W.
	e			40	Fox Is. H = 15 11 42
	iP	16	28	02	U.S.C.G.S. 52½°N, 166°W.
	i(PcP)			30	Fox Is.
	e		30	16	H = 16 17 13
	e(PP)			30	
	e(PPP)		31	10	
	e	16	56	14	
	e			43	
	e	22	55	46	U.S.C.G.S. 54°N, 166°W.
	Confused by microseisms				Fox Is. H = 22 44 44 Mag. = 6½ (Pas)
18th	iP	02	36	03	U.S.C.G.S. 52½°N, 171°W.
	e		38	41	Fox Is. H = 02 25 56
	iP	05	25	29	
		Compression			
	i		26	30	

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18th cont.	ei(P)	08	46	07	
	i			11½	
	i		47	06	
	eP	13	49	46	
	i			51	
	i			57½	
	i		50	03½	
	i			42	
	i			48	
	e			51	
	i		51	34	
	e(P)	19	36	05	U.S.C.G.S. 20°S, 178°W.
	i			24	Fiji Is.
	i(PcP)		38	52	H = 19 30 16
	e(ScS)		46	00	h = 450 kms.
		Very small amplitude			
	e(P)	20	13	57	U.S.C.G.S. 52°N, 180° Andreanov Is. H = 20 03 47
	iP!	21	14	52	U.S.C.G.S. 6°S, 152°E. New Britain H = 21 14 12
		Compression from south-south-east			Felt: Karoola Int. 3(MM) 5°10'S, 154°35'E. Felt: Warangoi Int. 2-3 (MM) 4°30'S, 152°20'E. Felt: Rabaul Int. 2(MM) 4°11'S, 152°10'E. Felt: Pomio Int. 2(MM) 5°30'S, 151°30'E.
19th	iP!	00	21	42½	Deeper than normal.
	iS			58½	
		Dilatation to north-west			
	iP	00	40	12½	
		Compression			
	i			37½	
	e(P)	08	23	36	U.S.C.G.S. 52°N, 169°W. Fox Is. H = 08 12 40
	(i(P)	08	25	10	U.S.C.G.S. 53°N, 168°W. Fox Is. H = 08 14 10
	?(				
	(e	08	27	51	
	eP	11	39	07	U.S.C.G.S. 51½°N, 176½°W.
	e			39	Andreanov Is. H = 11 28 50
	eP	13	01	13	U.S.C.G.S. 51½°N, 175°W.
	e			21	Andreanov Is.
	i			32	H = 12 50 51
	e		03	15	Mag. = 6¾ (Pas)
	eS		09	44	
	e(ScS)		10	06	
	e		30.5	-	

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19th cont.	e	17	16	48	U.S.C.G.S. 52½°N, 171°W.
	i			54½	Fox Is.
	Confused by microseisms				H = 17 04 25
20th	e(P)	11	12	15	U.S.C.G.S. 52°N, 172°W. Andreanov Is. H = 11 01 42
	iP!	11	43	19½	Deep
	Dilatation to just south of east.				
	e	12	58	00	
	e			40	
	e	19	01	(37)	B.C.I.S. 51½°N, 177½°W. Andreanov Is. H = 18 51 15
21st	No record Benioff 0432-0931 hours.				
	eP	16	37	16	U.S.C.G.S. 3°S, 144½°E.
	i			18	Nr. the N. coast of
	i(PP)			28½	New Guinea
	i			58	H = 16 35 28
	iS		38	50	
	e		39	37	
	e		40	01	
	e		42	49	
22nd	eP	14	32	03	U.S.C.G.S. 54°N, 166°W.
	i			07	Fox Is.
	i			23	H = 14 21 06
	i(PcP)			34	Mag. = 7½ (Pas)
	i		33	04	
	e(PP)		34	38	
	e		35	34	
	e(S)		40	53	
	e		41	04	
	e(ScS)		42	08	
	i		44	06.6	
	iP	14	44	07	U.S.C.G.S. 54°N, 165½°W.
	e		45	07	Fox Is.
	e(PP)		46	36	H = 14 33 13
	e	(15)	00	34	
	eP	17	20	25	U.S.C.G.S. 52½°N, 171°W. Fox Is. H = 17 09 51
	e	18	25	04	
23rd	eiP	05	17	16	U.S.C.G.S. 5½°S, 131°E.
	Confused at beginning by small local shock				Banda Sea H = 05 12 31
	i!			17½	h = 100 kms.
	i(PPP)		18	09.0	Mag. = 7 (Pas)
	i(S).E.		21	08.0	
	i(ScP)		24	43.6	
	ei	05	52	02	
	e		53	26	
	Small amplitude and confused by microseisms				
	iP	13	01	05½	Dilatation

(cont. over

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23rd cont.	eP	13	50	02	U.S.C.G.S. 51°N, 179½°W.
	e		55	42½	Andreanov Is.
					H = 13 39 53
24th	e(P)	06	47	45	B.C.I.S. 63°S, 165°E.
					Antarctic H = 06 37.7m.
	eP	11	16	50	U.S.C.G.S. 52½°N, 169½°W.
					Fox Is. H = 11 06 10
	eP	11	47	25	U.S.C.G.S. 52½°N, 171½°W.
	i			35	Fox Is.
	iPcP		48	05½	H = 11 36 50
	e(P)	12	16	10	U.S.C.G.S. 37°N, 71°E.
	e			23	Hindu Kush
					H = 12 05 10
					h approx. = 200 kms.
	e(P)	16	42	(41)	U.S.C.G.S. 52½°N, 169½°W.
					Fox Is.
					H = 16 32 28
	iP	19	06	42½	Felt: Wewak
	Dilatation. Deep?				Int. 2(MM)
	i		07	03	3°35'S, 143°40'E.
	i			25	
	i			43	
25th	eP	00	50	18	U.S.C.G.S. 53°N, 167°W.
	i(PcP)			51	Fox Is.
					H = 00 39 29
	i(P)	01	38	31	Felt: Aropa
	i			33	Int. 1(MM)
	i!			57	6°25'S, 155°50'E.
	iP	20	30	27½	Compression. Deep?
	i			34½	
	i		31	23½	
26th	iP	16	11	58	U.S.C.G.S. 50½°N, 180°.
	i(pP)		12	08.5	Andreanov Is.
					H = 16 01 53
	iP	17	13	34	
	iS			59	
	eP	18	27	03	U.S.C.G.S. 51°N, 179½° W.
					Andreanov Is.
					H = 18 16 47
27th	eiP	07	38	37	U.S.C.G.S. 22°S, 177°W.
	i(PcP)		41	08	Tonga Is.
	Confused by microseisms				H = 07 31 56
					h approx. = 150 kms.
	iP!	13	00	50	U.S.C.G.S. 5°S, 153½°E.
	Dilatation to east-south-east				New Britain
					H = 13 00 27
					h approx. = 100 kms.
					Felt: Karoola
					Int. 3(MM)
					5°10'S, 154°35'E.
					Felt: Rabaul
					Int. 3(MM)
					4°11'S, 152°10'E.
					Felt: Londolovit
					Int. 3(MM)
					3°05'S, 152°40'E.

(cont. over

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27th cont.	iP	13	29	15½	Dilatation. Deep.
	i		30	09	
	i			20	
	iP	15	26	31½	Distant tremor.
	iP! Dilatation to east-south-east	15	29	51	Felt: Rabaul Int. 2(MM) 4°11'S, 152°10'E. Felt: Kokopo Int. 2(MM) 4°20'S, 152°15'E.
	e	20	25	57	
28th	iP Dilatation to east-north-east	08	03	00	Felt: Rabaul Int. 2(MM) 4°11'S, 152°10'E.
	iP	09	56	19	Wellington. 34°7S, 180°.
	i			21½	Kermadec Is.
	i			28½	H = 09 49 13
					h approx. = 300 kms.
	iP	18	06	02	
29th	eP	05	21	21	U.S.C.G.S. 53½°N, 167°W.
	i			36	Fox Is.
	i			39	H = 05 10 28
	iPcP			55½	
	iPP		23	53½	
	e(P)	05	43	52	U.S.C.G.S. 4°N, 127°E.
	i			53	Talaud Is.
	i(PPP)		44	46	H = 05 37 (50)
	e		46	03	
	e(ScP)		50	55	
	iPKP	18	50	31	B.C.I.S. 57¼°S, 28¾°W.
	i			36	Sandwich Is.
					H = 18 31 36
30th	iP	03	31	25½	Deep?
	i			29	
	i			43½	
	eP	09	27	25	U.S.C.G.S. 53°N, 175°W.
					Andreanov Is.
					H = 09 17 00
31st	iP	10	18	42	U.S.C.G.S. 51½°N, 178°W.
	i		20	02	Andreanov Is.
					H = 10 08 28
	iP	10	42	36	Compression
	iP	13	12	49	Compression. Deep?
	i		13	00	
	iP	17	43	39	
	e		44	44	

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Tremors felt in the Territory, March, 1957.

Date	Time G.M.T.	Intensity Mercalli Modified	Locality	Latitude	Longitude
Mar.2nd	0811	4	Rabaul	04 11	152 10
	0810	2	Ulamona	05 00	151 15
	0812	1 - 2	Lindenhafen	06 10	150 35
	(??)	3	Pomio	05 30	151 30
3rd	(2304)	1	Pomio	05 30	151 30
	2359	1	Rabaul	04 11	152 10
6th	1500	2	Lumi	03 30	142 05
7th	0115	2	Lumi	03 30	142 05
	2330	3	Telefomin	05 10	141 35
	c:2330	2	Tari	05 50	143 00
11th	1100	1	Aropa	06 25	155 50
13th	0436	2	Linga Linga	05 35	149 45
15th	1125	2	Bogia	04 15	144 55
18th	2115	3	Karoola	05 10	154 35
	2115	2	Rabaul	04 11	152 10
	2115	2 - 3	Warangoi	04 30	152 20
	2113	2	Pomio	05 30	151 30
	?	(1 - 2)	Waterfall Bay	05 30	151 40
23rd	1915	2	Tari	05 50	143 00
24th	1730	3	Angoram	04 05	144 05
	1830	3	A iome	05 10	144 45
	1907	2	Wewak	03 35	143 40
25th	0140	1	Aropa	06 25	155 50
	1905	2 - 3	Wabag	05 30	143 40
27th	1301	3	Karoola	05 10	154 35
	1301	3	Rabaul	04 11	152 10
	(1300)	3	Londolovit	03 05	152 40
	c:1300	2 - 3	Warangoi	04 30	152 20
	c:1300	2	Tol. Pln.	05 00	152 05
	1529	2	Rabaul	04 11	152 10
	1529	2	Kokopo	04 20	152 15
	(1805?)	1	Londolovit	03 05	152 40
28th	0803	2	Rabaul	04 11	152 10
30th	1915	2	Esa'ala	09 45	150 50

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ROYAL OBSERVATORY
15 FEB 1962
EDINBURGH

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL BULLETIN. APRIL,1957.

1st	eP	Z	07	59	48	U.S.C.G.S. 4½°N, 129°E.
	i				49	Molucca Strait.
	i		(08)	00	16	H = 07 54 20
	i(PP)				34	h approx. = 100 kms.
	i(PPP)				46	
	iS	E		04	08	
	iP	Z	11	45	51	U.S.C.G.S. 51°N, 173°W.
	i	E		46	06	Andreanov Is.
						H = 11 35 30
						Mag. 6.1 (Uppsala)
	e(P)	Z	16	05	08	
	e	Z	20	17	37	
	i				39½	
	e				51	
	e			19	39	
2nd	eiP	Z	02	46	20	(B.C.I.S. Probably New
	e	Z		51	38	Hebrides Is. - insufficient data.)
	eiP	Z	20	27	20	U.S.C.G.S. 51½°N, 173°W.
						Andreanov Is.
						H = 20 16 57
						Mag. = 6.3 (Uppsala)
	eP	Z	21	37	38	U.S.C.G.S. and B.C.I.S.
	i				44	51°N, 173°W.
	e			38	18	Andreanov Is.
	e			39	57	H = 21 27 54
						Mag. = 6.3 (Uppsala)
	eP	Z	21	53	37	B.C.I.S. South Pacific
	e			54	10	Insufficient data
	i				34½	
3rd	e	Z	18	50	36	
	ei	NE			39	
	e				55	
4th	eP	Z	00	24	(56)	(U.S.C.G.S. 58°N, 155½°W.
						Alaska H = 00 13 08
						Mag. = 6.0 (Uppsala)
	iP!	Z	10	41	35	Felt: Warangoi Int.2-3(MM)
	i			43	34	4°30'S, 152°20'E.
	e			44	38	
	Dilatation to south-east					
	ePKP	Z	11	19	20	B.C.I.S. near 35°S, 68°W.
	i				30	Argentina.
	e			20	02	H = 11 00.7 m.
	e				18	
	eiP	Z	14	54	06	U.S.C.G.S. 52½°N, 170½°W.
	i			55	48	Fox Is. H = 14 43 49

(cont. over

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4th. cont.	eP	Z	16	19	26	
	i				34	
	i				46	
	i				58	
	e			21	02	
	e	Z	19	23	00	
	e				05	
	e				12	
	e			24	21	
5th	eP	Z	03	00	10	U.S.C.G.S. 52°N, 172½°W.
	i				26	Fox Is. H = 02 49 39
	i			01	17	Mag. = 6½ (Pas.)
	eiP	Z	06	21	16	Felt: Buin Int. 3(MM) 6°50'S, 155°45'E.
	e(P)	Z	07	36	58	(B.C.I.S. near 51½°N. 177°W.
	Confused by microseisms.					Andreanov Is. H = 07 16.6m)
	e(P)	Z	07	37	24	U.S.C.G.S. 26½°S, 177°W.
	e(PP)			39	07	Kermadec Is. region
	i(S)			43	28	H = 07 30 22
						H = 100 kms.
						Mag. = 6¾ (Pas.)
	e	Z	14	26	25	
	e				31	
	i				37	
	e(P)	Z	15	22	30	((U.S.C.G.S. 45°N, 148°E.
	e				56	Kurile Is. H = 15 04 09.))
6th	e(S)	Z	15	42	13	(B.C.I.S. Tonga Is. Region H = 15 30.7m)
	eP	Z	16	52	07	
7th	iP	Z	00	33	04	B.C.I.S. Near the E. coast of
	i				25	New Guinea. H = 00 31 30
	ei			34	52	
	eP	Z	10	17	36	U.S.C.G.S. 1°S, 137½°E.
	e(PP)				51	Near the N. coast of
	i				53	New Guinea.
	i(PPP)				57	H = 10 14 08
	i			18	31	Mag. = 6-6½ (Pas.)
	e(SSS)			20	57	
	e			21	02	
	i(PcP)			22	42	
	e			25	05	
	e			26.1	-	
	e			47.1	-	
	eiP	Z	21	18	12	
	i			19	57	
	e			20	44	
8th	eiP	Z	02	36	53	
	i			37	02	
	i				40	
	iP!	Z	03	55	46	
	Compression from north-west					
	i(P)	Z	06	09	02	
	e				52	

(cont. over

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8th. cont.	iPKP	Z	20	37	12	U.S.C.G.S. 8½°N, 83°W.
	e				40	Panama/Costa Rica
						H = 20 18 09
						Mag. = 6½ (Pas).
9th	eP	Z	00	31	11	U.S.C.G.S 30½°N, 138½°E.
		Dilatation				Honshu.
	i				11½	H = 00 24 39
	i				41	h approx. = 450 kms.
	i(PPP)			34	14	Mag. = 6¾ (Pas)
	e			35	34	
	e(S)			36	19	
	eP	Z	02	22	53	U.S.C.G.S. 22½°N, 144½°E.
	i				54½	Mariana Is.
	i			23	17	H = 02 17 06
	i(PP)				59	Mag. = 5.7 (Rome).
	ei(P)	Z	10	41	59	(U.S.C.G.S. 30½°N, 138°E.
						Honshu. H = 10 35 34
						H approx. = 500 kms.)
	eP	Z	11	12	21	U.S.C.G.S. 51½°N, 178½°W.
	e				31	Andreanov Is.
	e				56	H = 11 02 09
	e			13	17	Mag. = 6.0 (Uppsala)
	e(P)	Z	17	50	27	U.S.C.G.S. 51½°N, 179½°W.
						Andreanov Is. H = 17 40 13.
	eP	Z	20	34	37	U.S.C.G.S. 52½°N, 169°W.
	e				55	Fox Is. H = 20 23 56
	e			35	38	Mag. = 5.65 (Rome).
	i(P)	Z	22	15	46	Felt: Ambunti. Int.3(MM)
	i			16	09	4°15'S, 142°50'E.
	Confused by microseisms.					
10th	eP	Z	09	19	31	U.S.C.G.S. 51°N, 177°W.
	i			20	06	Andreanov Is.
	e(PP)			21	46	H = 09 09 18
	e(S)			27	45	mag. = 6.2 (Uppsala)
	eP	Z	11	41	32	U.S.C.G.S. 56°N, 154°W.
	i				58	Kodiak Is. region
	e			43	44	H = 11 29 58
	e			44	04	Mag. = 7 (Pas)
	e(PP)				26	
	e			45	44	
	e				54	
	iP	Z	13	30	37	U.S.C.G.S. 51½°N, 176½°W.
	e				55	Andreanov Is. H = 13 20 14
	eP	Z	13	50	45	U.S.C.G.S. 15°S, 173°W.
	e			51	01	Samoa Is.
	e				42	H = 13 43 43
	e				57	
	i			55	09	
	i				13	
	e				44	
	e			56	08	
	e				13	
	eP	Z	17	02	54	
	i			03	09	

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11th	eP	Z	10	39	32	B.C.I.S. Insufficient data.
	e			40	03	Probably New Hebrides Is.
	iP!	Z	14	20	41	B.C.I.S. 5°S, 154°E.
	Compression from north-north-west.					Solomon Is. region
						H = 14 20.3m.
	e			26	19	h = 100 kms.
	e			27	49	
	e(P)	Z	16	22	52	U.S.C.G.S. 52½°N, 169½°W.
						Fox Is. H = 16 12 08
	e(P)	Z	17	51	19	U.S.C.G.S. and B.C.I.S.
						52°N, 168½°W.
						Fox Is. H = 17 40 37
						Mag. = 5¼ (Moscow).
12th	Nil					
13th	iP	Z	02	22	49	Felt: Warangoi. Int. 1-2(MM)
	Dilatation.					4°30'S, 152°20'E.
	eP	Z	06	36	01	U.S.C.G.S. 6½°N, 126½°E.
	i				02	Mindanao
	i(PP)			36	53	H = 06 30 08
	i			37	16	Mag. = 6.0 (Uppsala)
	i				30	
	eS			40	45	? Deep
	eP	Z	10	16	37	U.S.C.G.S. 5°N, 126½°E.
	i				39½	Mindanao
	i				47	H = 10 10 48
	i			17	13	Mag. = 6.0 (Uppsala)
	i				39	B.C.I.S. 5¼°N, 126¼°E.
	i				42½	H = 10 10 55
	i(PPP)				45	h = 100 kms.
	e			18	32	
	eP	Z	10	59	25	Felt: Malalia. Int.6(MM)
	i!				26	5°30'S, 150°30'E.
	iP!	Z	11	36	07	Felt: Malalia. Int.1(MM)
						5°30'S, 150°30'E.
	iP!	Z	12	20	06	Felt: Londolovit. Int.2(MM)
	Compression from south-east					3°05'S, 152°40'E.
	ePKP	Z	15	58	46	U.S.C.G.S. 19°S, 69½°W.
	e			59	17	North of Chile
	e(PKS)		(16)	02	04	H = 15 39 43
	e				55	h approx. = 150 kms.
	e(P)	Z	16	26	16	J.M.A. 42°.3N, 141°3E.
						Hokkaido. H = 16 18 11
						h approx. = 120 kms.
	iP!	Z	19	32	51	Felt: Malalia. Int. 4(MM)
	i				55	5°30'S, 150°30'E.
	i			33	19	
	i				53	
14th	eP	Z	07	23	26	U.S.C.G.S. and B.C.I.S.
	i				30	31°N, 84½°E.
	e				55	S. Tibet.
	e(PP)			26	13	H = 07 11 50
	e			32	39	Mag. = 6¼ (Pas.)

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14th. cont.	eP	Z	09	25	13	B.C.I.S. (near 5½°S, 150°E.) New Guinea region. H = 09 23 44 Felt: Popondetta. Int.3(MM) 8°45'S, 148°15'E. Lae. Int. 3(MM) 6°45'S, 147°00'E. Awelkon. Int.2(MM) 5°40'S, 147°50'E. Lindenhafen. Int.1(MM) 6°10'S, 150°35'E. Wau. Int.1(MM) 7°20'S, 146°45'E. Koaru. Int.? 8°05'S, 146°00'E.
	iP!	Z	12	33	50	U.S.C.G.S. 4½°S, 150°E. New Britain. H = 12 32 39 (Shock reported felt: Londolovit Int.1(MM) 3°05'S, 152°40'E.)
Dilatation to west-north-west						
	e(P)	Z	16	48	23	B.C.I.S. 31°N, 84½°E. S. Tibet. Aftershock. H = 16 36 48
	eP	Z	19	24	56	U.S.C.G.S. 15½°S, 173°W. Samoa Is. H = 19 17 57 Mag. = 8 (Pas)
	i				59	
	i			25	42	
	i(PP)			26	24	
	i				42	
	i(PPP)				49	
	ei(PcS)			31	13	
	e				20	
	e(ScS)			35	17	
	e			57	-	
	iP	Z	21	09	05	U.S.C.G.S. 50½°N, 179°W. Andreanov Is. H = 20 59 00
	i				38	
	e(PcP)			10	16	
15th	iP!	Z	04	33	18	B.C.I.S. near 6°S, 153°E. New Britain region. H = 04 32.8m. Felt: Buin. Int.1(MM) 6°50'S, 155°45'E.
	i			36	13	
	i				31½	
	i				48½	
	i			37	02	
	eiP	Z	04	49	03	Felt: Buin. Int.1(MM) 6°50'S, 155°45'E.
Compression.						
	eiP	Z	04	56	56	
	i			57	47	
	eP	Z	10	48	46	U.S.C.G.S. 51½°N, 179°W. Andreanov Is. H = 10 38 37 Mag. = 5¾ (Moscow)
	i			49	11	
	iP	Z	15	48	08	
	i				19.5	
	i			49	23	
	e(P)	Z	18	22	(42)	B.C.I.S. 51¾°N, 178½°W. Andreanov Is. H = 18 12 31
	iP!	Z	19	22	24	Felt: Lindenhafen. Int.2(MM) 6°10'S, 150°35'E.
Dilatation						
	i				31	
	i				38	
	i			23	01	

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15th. cont.	eP	Z	21	43	51	U.S.C.G.S. 52½°N, 167°W.
	i				52	Fox Is. H = 21 33 05
	i			44	08	Mag. = 6-7 (Uppsala)
16th	eP	Z	04	11	29	U.S.C.G.S. 4½°S, 107½°E.
	i				31	Java Sea.
	i			12	34	H = 04 04 04
	i			13	17	h approx. = 600 kms.
	i(S)			17	00	Mag. = 7½ (Pas)
	e	Z	04	42	18	
	Confused by microseisms.					
	i(P)	Z	13	08	19½	
	e				21	
	e(P)	Z	17	34	(52)	(B.C.I.S. Tonga Is. H = 17 27.8m.)
	ePKP	Z	18	36	26	U.S.C.G.S.
	e				29	South of Bolivia.
	e(PP)			39	03	H = 18 17 05
	e				38	
	i				41½	
	e(SKS)			43	38	
	e(SKKKS)			46	24	
17th	eP	Z	08	14	36	U.S.C.G.S. 20°S, 176°W.
	i				37	Tonga Is.
	i			15	08	H = 08 07 58
	i(PcP)			17	07	h approx. = 200 kms.
	e(S)			19	47	
	e(ScP)			20	36	
	e			21	00	
	e(ScS)			24	24	
	iP	Z	09	32	45	
	i				53½	
	e			33	23	
	e(P)	Z	09	38	41	U.S.C.G.S. 52½°N, 171°W. Fox Is. H = 09 27 54.
	eP	Z	13	35	42	U.S.C.G.S. 52½°N, 169°W.
	e			36	12	Fox Is. H = 13 24 58
	i(PPP)			37	38	Mag. = 5½ (Moscow).
18th	eP	Z	07	10	24	U.S.C.G.S. 52°N, 176½°W.
	Confused by microseisms.					A ndreanov Is. H = 07 00 03
19th	iP!	Z	06	17	19	(B.C.I.S. Discordant data)
	Compression. Deep.					Fairly small, near shock.
	i			18	13	
	iP	Z	08	40	48	U.S.C.G.S. 6½°S, 155½°E.
	i(PP)				51½	Solomon Is.
	i(S)			41	46	H = 08 39 37
	i			46	17	Felt: Buin. Int.4(MM)
	i				57	6°50'S, 155°45'E.
	eP	Z	15	55	33	U.S.C.G.S. 51½°N, 168½°W.
	i				34	Fox Is. H = 15 44 53
	e			56	09	Mag. = 6-7 (Uppsala)

(cont. over

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19th. cont.	iP	Z	22	30	17	U.S.C.G.S. 52°N, 166½°W.
	i				30½	Fox Is. H = 22 19 26
	i(PcP)				49	Mag. 7-7¼ (Pas)
	i			31	12	
	e			32	39	
	i(PP)				41½	
	e(M)			58	55	
20th	ei	Z	00	11	59	U.S.C.G.S.
	Superimposed shock.					Solomon Is.
	i			12	54	H = 00 09 10
	i			15	04	
	i				53	
	eP	Z	07	00	11	U.S.C.G.S. 54½°S, 131½°W.
	e			03	14	S. Pacific. H = 06 48 04
	(iP!	Z	12	31	58	U.S.C.G.S. 6°S, 147½°E.
	(Dilatation to east-					New Guinea. H = 12 30 37
	(north-east.					B.C.I.S. 6¼°S, 147¾°E.
	(i			38	06	H = 12 30 40. Mag. 6.6(Uppsala)
						Felt: Kilenge. Int. 4-5(MM)
						5°30'S, 148°20'E.
						Awelkon. Int.4(MM)
						5°40'S, 147°50'E.
	iP	Z	13	25	33	Felt: Awelkon. Int.2(MM)
	i			26	43	5°40'S, 147°50'E.
	i			27	21½	Mendi. Int. 1(MM)
						6°10'S, 143°40'E.
	eP	Z	16	53	40	Felt: Awelkon. Int.1(MM)
	i				41	5°40'S, 147°50'E.
	i				45	
	i			54	50	
	i(P)	Z	17	09	28½	
	e	Z	17	27	00	
	eP	Z	21	46	03	B.C.I.S. Tonga Is. region
						H = 21 39.4m.
21st	eP	Z	00	21	04	
	i				05½	
	i!				06	
	iP!	Z	02	00	42	
	Dilatation to south-east.					
	iP	Z	02	42	41	
	Dilatation - deep.					
	e	Z	02	51	44	
	e				53	
	ePKP	Z	21	31	35	U.S.C.G.S. 7°N, 72°W.
	i				48	Colombia/Venezuela.
	ePKS			35	10	H = 21 12 26
						Mag. = 6½-6¾ (Pas).
22nd	iP	Z	10	53	58	
	i			54	18	
	eP	Z	12	56	21	
	i				42	
	e			57	26	

(cont. over

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22nd. cont.	ePKP	Z	14	02	22	U.S.C.G.S. 7°N, 72°W.
	i				37	Colombia/Venezuela.
						Aftershock. H = 13 43 14
	e	Z	14	25	19	
	e				25	
	e				42	
	ePKP	Z	15	56	43	U.S.C.G.S. 7°N, 72°W.
	eSKS		(16)	00	45	Colombia/Venezuela.
						Aftershock. H = 15 37 20.
	e	Z	16	59	23	
	eP	Z	23	07	01	B.C.I.S. Solomon Is.
	Confused by microseisms.					H = 23 05 38
23rd	eiP	Z	03	05	02	(Correction of 02 05 02)
	i				37	
	i				56	
	e			06	26	
	e			07	32	
	ePKP	Z	22	17	51	U.S.C.G.S. 27°S, 68°W.
						A rgentine/Chile.
						H = 21 58 35.
24th	eP	Z	09	09	57	
	i			10	03	
	iP	Z	10	55	50	(B.C.I.S. S. Pacific Insufficient data).
	iP	Z	12	56	10	(Shock reported felt: Lae Int.3(MM)
	i				17	6°45'S, 147°00'E.)
	eP	Z	13	06	17	B.C.I.S. Insufficient data.
	i				22	
	ePKP	Z	19	28	57	B.C.I.S. 36°3N, 29°1E.
	i			29	46	E. of Rhodes. Foreshock.
	i!(PP)			30	22	H = 19 10 16
	e			31	54	Mag. = 6¾-7 (Pas)
	e			39	(24)	
	e(PPS)			42	54	
25th	ePKP	Z	02	44	26	B.C.I.S. 36°5N, 28°9E.
	i				46	E. of Rhodes.
	ePP			45	51	H = 02 25 36
	e(SKKKS)			52	53	Mag. = 7-7¼ (Pas)
	eSS		(03)	02	13	
	e(SSP)				41	
	e(P,PKP)	Z	02	54	41	
	e			57	59	
	e			58	43	
	eiP	Z	07	20	21	U.S.C.G.S. 45°N, 100°E.
						Outer Mongolia. H = 07 09 20.
	iP	Z	10	20	35	U.S.C.G.S. 4½°S, 134°E.
	i				49	Coast of New Guinea.
	i!(PP)				51.7	H = 10 16 18
	i!				55.5	Mag. = 5 (Moscow)
	i(PPP)			21	01	
	i				20	
	e			22	15	
	e			25	23	

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25th. cont.	eP	Z	11	11	43	U.S.C.G.S. 1½°N, 126°E.
	i				45	
	e(PcP)			15	03	Molucca Strait
						H = 11 06 02
						Mag. = 5¼ (Moscow)
	eP	Z	11	42	31	
	ePKP	Z	13	38	14½	(B.C.I.S. 29°S, 69°W. Argentine. H = 13 18 10)
	eP	Z	14	20	02	U.S.C.G.S. 60½°N, 145°W.
						Alaska. H = 14 07 58
	eP	Z	17	55	32	U.S.C.G.S. 51½°N, 180°.
						Andreanov Is.
						H = 17 45 14
						Mag. = 5 (Moscow).
26th	ePKP	Z	06	53	44	B.C.I.S. 36°3N, 29°1E.
						E. of Rhodes. Aftershock.
						H = 06 33 43
						Mag. = 6¼-6½ (Athens).
	eP	Z	15	17	06	U.S.C.G.S. 45°N, 148°E.
	ipP				26	Kurile Is. H = 15 08 29
						h approx. = 60 kms. (J.M.A.)
27th	eiP	Z	00	15	47	U.S.C.G.S. 0°, 121½°E.
	i				48	Celebes.
	i			16	03	H = 00 09 47
	i				07	h approx. = 60 kms.
	e			19	22	
	e			21	06	
	eP	Z	11	35	36	U.S.C.G.S. 20°S, 170°E.
	i				38½	Loyalty Is.
	i				52	H = 11 30 33
	e(S)			40	14	h approx. = 100 kms.
	e				20	
	iPcS			42	54½	
	eScS			46	47	
	iP	Z	12	03	53	
	Compression					
	eP	Z	15	52	48	
	i				53	
	iP	Z	18	19	57	
	eP	Z	22	00	28	B.C.I.S. 52°N, 174½°W.
						Andreanov Is. H = 21 51 50
28th	iP!	Z	00	00	41½	U.S.C.G.S. New Britain region.
	Dilatation to south-south-east.					H = 00 00 15
						Felt: Tol. Int.2-3(MM)
						5°00'S, 152°05'E.
						Pomio. Int.2-3(MM)
						5°30'S, 151°30'E.
						Rangarere. Int.2(MM)
						4°15'S, 151°35'E.
						Warangoi. Int.2(MM)
						4°30'S, 152°20'E.
						Ulamona. Int.1-2(MM)
						5°00'S, 151°15'E.
						Rabaul. Int.1(MM)
						4°11'S, 152°10'E.

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28th cont.	iP!	Z	01	29	34½	U.S.C.G.S. 7oN, 127°E.
	i				49½	Mindanao.
	i(PcP)			32	51	H = 01 23 40
	e(S)			34	10	Mag. = 6.5(Uppsala). 5¾-6 (Pas)
	iP	Z	10	37	31	U.S.C.G.S. 6°S, 155°E.
	Compression					Solomon Is. H = 10 36 41
						h approx. = 60 kms.
						Felt: Karoola. Int.5(MM)
						5°10'S, 154°35'E.
						Aropa. Int.3(MM)
						6025'S, 155°50'E.
						Sohano. Int.3(MM)
						5°25'S, 154°40'E.
						Pomio. Int.2-3(MM)
						5°30'S, 151°30'E.
						Warangoi. Int.2-3(MM)
						4°30'S, 152°20'E.
						Waramung. Int. 2(MM)
						4°05'S, 153°35'E.
						Tol. Int.1(MM)
						5°00'S, 152°05'E.
						Ulamona. Int.1(MM)
						5°00'S, 151°15'E.
						Londolovit. Int.1(MM)
						3°05'S, 152°40'E.
						(Buin. Int.1(MM)
						6°50'S, 155°45'E.
						Time doubtful).
29th	i(PKS)	Z	10	33	59	(U.S.C.G.S. 22°S, 66°W.
	Confused by microseisms.					Argentina/Bolivia. H = 10 11 53
						h approx. = 200 kms.)
	iP	Z	16	48	26	Small local disturbance?
	e(P)	Z	19	28	(10)	U.S.C.G.S. 5½°N, 126°E.
	Confused by microseisms.					Mindanao. H = 19 22 58
						h approx. = 400 kms.
	iP	Z	21	04	20½	U.S.C.G.S. 9°S, 107°E.
	e(PP)			06	28	Java. H = 20 55 57
						Mag. = 6.2 (Uppsala)
30th	iP!	Z	02	25	08½	Felt: Pomio. Int.3(MM)
	Dilatation to south-west.					5°30'S, 151°30'E.
	eP	Z	05	31	07½	
	i				21	
	i!				47	
	i			32	05	
	eP	Z	21	01	11½	
	i!				15	
	i				27	
	i			03	04	
	i				26	

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The following tremors were reported felt in the Territory - April,1957.

Date	Approx. Time G.M.T.	Intensity Modified Mercalli	Locality	Latitude South	Longitude East
				o '	o '
4th	1042	2 - 3	Warangoi	04 30	152 20
5th	0620	3	Buin	06 50	155 45
	1730	2	Wewak	03 35	143 40
	1755	4	"	"	"
9th	2216	3	Ambunti	04 15	142 50
13th	0008	1	Malalia	05 30	150 30
	0223	1 - 2	Warangoi	04 30	152 20
	1057	6	Malalia	05 30	150 30
	1117	1	"	"	"
	1123	3	"	"	"
	1139	1	"	"	"
	1220	2	Londolovit	03 05	152 40
	1336	"	"	"	"
	1930	4	Malalia	05 30	150 30
14th	0920	1	Wau	07 20	146 45
	0921	3	Popondetta	08 45	148 15
	0925	3	Lae	06 45	147 00
	0926	1	Lindenhafen	06 10	150 35
	0928	2	Awelkon	05 40	147 50
	0930	?	Koaru	08 05	146 00
	1219	1	Londolovit	03 05	152 40
	2025	1	Wau	07 20	146 45
15th	0425	1	Buin	06 50	155 45
	0442	1	"	"	"
	1922	2	Lindenhafen	06 10	150 35
	2025	2	Awelkon	05 40	147 50
19th	0840	4	Buin	06 50	155 45
	2145	2	Lindenhafen	06 10	150 35
20th	0035	3	Wau	07 20	146 45
	1225	4 - 5	Kilenge	05 30	148 20
	1230	4	Awelkon	05 40	147 50
	1330	2	Awelkon	"	"
	1350	1	Mendi	06 10	143 40
	1655	1	Awelkon	05 40	147 50
21st	1230 (+ 2 aftershocks)	4	Awelkon	05 40	147 50
(22nd)	0440	3	Lindenhafen	06 10	150 35
(date uncertain: maybe 23rd.)					
24th	1234	(3)	Lae	06 45	147 00
28th	0000	2 - 3	Tol	05 00	152 05
	0002	2 - 3	Pomio	05 30	151 30
	0001	2	Rangarere	04 15	151 35
	0010	2	Warangoi	04 30	152 20
	0002	1 - 2	Ulamona	05 00	151 15
	0001	1	Rabaul	04 11	152 10
	1037	5	Karoola	05 10	154 35
	1038	3	Aropa	06 25	155 50
	1036	3	Sohano	05 25	154 40

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Tremors reported felt cont.

Date	Approx. Time G.M.T.	Intensity Modified Mercalli	Locality	Latitude South	Latitude East
				o '	o '
28th	1040	2 - 3	Pomio	05 30	151 30
cont.	1(1)40	2 - 3	Warangoi	04 30	152 20
	1037	2	Waramung	04 05	153 35
	1035	1	Tol	05 00	152 05
	1040	1	Ulamona	05 00	151 15
	1038	1	Londolovit	03 05	152 40
	(0727)	1	Buin	06 50	155 45
30th	0210	3	Pomio	05 30	151 30

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL BULLETIN. MAY, 1957.

1st	iP	Z	05	11	39	Felt: Pomio. Int.2(MM)
	Confused by microseisms					5°30'S, 151°30'E.
2nd	iP!	Z	01	50	32	U.S.C.G.S. 4½°S, 153°E.
	Dilatation to south-east					New Britain region.
						H = 01 50 09
						h approx. = 60 kms.
						Felt: Warangoi. Int.3(MM)
						4°30'S, 152°20'E.
						Pomio. Int.3(MM)
						5°30'S, 151°30'E.
						Namatanai. Int.2(MM)
						3°40'S, 152°25'E.
						Ulamona. Int.1(MM)
						5°00'S, 151°15'E.
	iP	Z	17	55	25	Felt: Bialla. Int.2(MM)
	i!				26	5°20'S, 151°05'E.
	i(S)				35½	
	eP	Z	21	42	08½	U.S.C.G.S. 7½°S, 120°E.
	i				19½	Flores Sea.
	i!(PcP)			44	40½	H = 21 36 25
	i(ScP)			47	28½	h approx. = 600 kms.
3rd	Nil					
4th	eP	Z	10	09	29	U.S.C.G.S. 3½°S, 137°E.
	i				32	West of New Guinea.
	i!				34½	H = 10 05 45
	e			10	47	Mag. = 6.4(Uppsala)
	i			11	14	
	i				38½	Deep.
	iP	Z	23	09	04½	
	i!				06	
	i!				09	
	i			11	47	
	e			12	43	
	e				59	
	i			13	21	
	iP	Z	23	52	08	
	i!				12	
	i(S)				33	
	i!			53	21½	
5th	iP	Z	00	36	01	B.C.I.S.
	i!				02	Nr. the E. Coast of New Guinea.
	(i!				05	H = 00 35.2m.
	(i!(P)		00	38	28	Superimposed shock?
	(i!(P)		00	39	00½	" " " "
	iP!	Z	23	54	18	Felt: Ulamona. Int.1(MM)
	Dilatation to west?					5°00'S, 151°15'E.
6th	iP	Z	06	44	37½	
	i(S)			45	10½	
	iP	Z	11	28	37	
	eS			29	14	

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6th. cont.	e(P)	Z	11	44	01	U.S.C.G.S. 17½°S, 176°W. Tonga Is. region H = 11 37 33 h approx. = 250 kms.
	iP	Z	14	34	20	
	e(S)			35	52	
	i			38	11½	
7th	iP	Z	08	07	38	B.C.I.S. Discordant data.
	i			08	56	
	eiP	Z	19	34	12	(Shock reported felt: Esa'ala. Int.2(MM) 9°45'S, 150°50'E.)
8th	i	Z	10	09	08½	
	(iP	Z	18	17	31½	Local)
	iP	Z	19	28	47	Deep. Local.
	eP	Z	20	15	20½	U.S.C.G.S. 15½°S, 179°E. Fiji Is. H = 20 09 53. h approx. = 400 kms.
	eP	Z	21	35	39½	Felt: Aiome. Int.3(MM)
	i				41	5°10'S, 144°45'E.
9th	Nil					
10th	(iP	Z	10	52	38½)	Unimportant local.
	(iS				55)	(See B.C.I.S.)
	iP!	Z	16	26	14	
	Dilatation to south.					
11th	iP	Z	04	20	37	Compression. Deep.
	e	Z	11	48	17½	
	eP	Z	15	06	(22)	U.S.C.G.S. 52½°N, 160°E. Kamchatka. H = 14 56 30.
	eP	Z	17	45	18½	B.C.I.S. Solomon Is.
	i			46	12½	H = 17 43.9m.
	i(S)				21½	Felt: Buin. Int.4(MM) 6°50'S, 155°45'E.
12th	ePKP	Z	05	06	29	U.S.C.G.S. 60½°S, 26°W.
	ePP			07	26	Sandwich Is. H = 04 47 44
	i(P)	Z	06	58	21.5	U.S.C.G.S. 53°N, 142°E.
	i				27	Sakhalin. H = 06 48 27 Mag. = 5½ (Moscow)
	iP!	Z	09	08	34½	Felt: Rabaul. Int.2(MM)
	Compression from north-north-east.					4°10'S, 152°10'E.
	iP	Z	09	13	42½	
	i!				50	
	i!				58½	
	iP!	Z	09	24	45½	
	Compression from south-west					

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21st	eiP	Z	01	17	34	U.S.C.G.S. and B.C.I.S.
	i!				35	21½°N, 144°E.
	i				42½	Mariana Is.
	i(PPP)			18	44	H = 01 11 58
	iPcP			20	54	h approx. = 100 kms.
	eScP			24	23	Mag. = 7-7¼ (Pas)
	eScS			28	16	
	e(P)	Z	01	43	02	
22nd	iP	Z	09	18	40	Felt: Warangoi. Int.1-2(MM)
	Compression from north-west					4°30'S, 152°20'E.
	iP	Z	13	39	54	U.S.C.G.S. 50°N, 177°W.
	i				57	Andreanov Is.
	i			40	02	H = 13 29 44
	ePP			42	11	Mag. = 6½ (Pas)
	i			43	47½	
	e		(14)	09	25	
23rd	iP	Z	04	15	01.5	
	Compression					
	eP	Z	15	55	05	B.C.I.S. New Hebrides Is.
						H = 15 50.2m.
24th	e(PKS)	Z	03	00	16	U.S.C.G.S. 3°N, 76½°W.
	Confused by microseisms.					Colombia. H = 02 37 37
						Mag. = 6¾ (Pas)
	eP	Z	10	12	23	U.S.C.G.S. 17°N, 146°E.
	i!				23½	Mariana Is.
	i				55	H = 10 07 40
			Deep.			h approx. = 100 kms.
25th	Nil					
26th	i(PP)	Z	06	53	24	B.C.I.S. 40°7N, 31°2E.
	Confused by microseisms					Turkey. H = 06 33 30
	i				29½	U.S.C.G.S. 41°N, 31°E.
	i			54	03	H = 06 33 31
						Mag. = 7 (Pas)
	iP	Z	15	58	15	U.S.C.G.S. 3°S, 131°E.
	i				18	Ceram.
	i(PP)				24	H = 15 53 30
	i(PPP)				43	
	i			59	03	
	iP!	Z	21	08	09	Felt: Rabaul. Int.1(MM)
	Dilatation					4°10'S, 152°10'E.
	i				10	
	i!				29	
27th	Nil					
28th	iP	Z	06	01	59½	U.S.C.G.S. 25½°N, 95°E.
						Pakistan/Burma
						H = 05 51 30
						Mag. = 6.0 (Uppsala)
	eP	Z	23	24.5	-	U.S.C.G.S. 15°S, 168°E.
	Confused by microseisms					New Hebrides Is.
	e(ScP)			31	08	H = 23 19 39
						h approx. = 300 kms.

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29th	iP!	Z	05	45	29½	
	Dilatation					
	iP!	Z	10	34	30½	Felt: Rabaul. Int.3(MM) 4°10'S, 152°10'E. Karoola. Int.2(MM) 5°10'S, 154°35'E.
	Compression from south-south-east.					
	eP	Z	16	14	03½	
	i				08½	
	i!				59	
	iP!	Z	18	06	50½	Felt: Warangoi: Int.2(MM) 4°30'S, 152°20'E.
	Dilatation to south-south-east.					
30th	iP	Z	09	38	27	B.C.I.S. Insufficient data.
	i!				31	Deep.
	e(P)	Z	18	20	18½	B.C.I.S. South Pacific.
	e			23	30	Insufficient data.
	e			26	52	
	e(P)	Z	19	48	(05)	B.C.I.S. Tonga Is.
	e(PcP)			50	33	Aftershock.
	e				58	H = 19 40 58
	eP	Z	19	57	51½	J.M.A. 41°2N, 142°6E.
	e			58	01	Hokkaido. H = 19 49 30
						h approx. = 50 kms.
	eP	Z	21	04	07½	U.S.C.G.S. 22°S, 179°W.
	i				09½	Fiji Is. region
	i				38½	H = 20 58 15
	i(ScP)			09	25½	h approx. = 600 kms.
	Confused by microseisms.					
31st	No time breaks until 0500.					Shock U.S.C.G.S. 27½°S, 63°W. Argentine. H = 02 16 27 Mag. = 6¼-6½ (Pas) - Recorded.
	Local shock recorded c.04 15					Felt: Wau. Int.2(MM) 7°20'S, 146°45'E. Kilenge. Int.2(MM) 5°30'S, 148°20'E. Kandrian. Int.2(MM) 6°15'S, 149°35'E.

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International Seismological Centre From the ISC collection scanned by SISMOS

Tremors reported felt in the Territory, May,1957.

Date	Reported Time G.M.T.	Intensity Modified Mercalli	Locality	Latitude South	Longitude East
				o '	o '
1st	0512	2	Pomio	05 30	151 30
2nd	0153	3	Pomio	"	"
	0152	3	Warangoi	04 30	152 20
	0150	2	Namatanai	03 40	152 25
	0151	1	Ulamona	05 00	151 15
	1755	2	Bialla	05 20	151 05
5th	2354	1	Ulamona	05 00	151 15
6th	1930	1	Esa'ala	09 45	150 50
7th	0747½	2	Esa'ala	09 45	150 50
	1930	2	"	"	"
8th	2130	3	Aiome	05 10	144 45
9th	0807	2	Popondetta	08 45	148 15
11th	1745	4	Buin	06 50	155 45
12th	(0352)	2	Warangoi	04 30	152 20
22nd	0923	1 - 2	Warangoi	04 30	152 20
	1655	1	Esa'ala	09 45	150 50
29th	(0345)	3	Pomio	05 30	151 30
	1034	3	Rabaul	04 10	152 10
	1037	2	Karoola	05 10	154 35
	1807	2	Warangoi	04 30	152 20
30th	(1040)	3	Aiome	05 10	144 45
	1527	2	Esa'ala	09 45	150 50
	1535	(2)	"	"	"
	c.2005	1	"	"	"
	"	(1)	"	"	"
	"	1	"	"	"
31st	0415	2	Wau	07 20	146 45
	0415	2	Kilenge	05 30	148 20
	0420	2	Kandrian	06 15	149 35

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TERRITORY OF PAPUA AND NEW GUINEA.

Vulcanological Observatory, Rabaul.

SEISMOLOGICAL BULLETIN. JUNE, 1957.

1st	Nil					
2nd	iP!	Z	10	19	55	Felt: Kiep. Int. 3(MM)
	Dilatation to south					5°10'S, 152°00'E.
	i			21	18	Warangoi. Int. 2(MM)
						4°30'S, 152°20'E.
	iP	Z	11	20	09	
	i			21	03	
	Deep.					
3rd	iP	Z	09	08	05	
	Compression					
	i!				09	
	i			09	36	
	i				49½	
	i			10	02	
	e	Z	13	42.8	-	
4th	eP	Z	11	18	36	U.S.C.G.S. 10½°S, 166½°E.
	iPP				49	Santa Cruz. Is.
	iPPP				56.8	H = 11 14 50
	iS			21	32	Mag. 5 (Matsushiro)
	iScP			27	00	
	eP	Z	17	10	48	U.S.C.G.S. 17½°S, 178°W.
	i				48½	Fiji Is.
	i!				59	H = 17 05 02
	i			11	24	h approx. =550 kms.
	i!			12	11	Mag. 6¼-6½ (Pas).
	iS			15	19	
	i!ScP			16	13	
	eScS			20	10	
	Deep?					
	eP	Z	20	27	07	B.C.I.S. and U.S.C.G.S.
						2½°S, 101½°E.
						Sumatra. H = 20 18 05
						Mag. 5¼ (Matsushiro)
5th	iP	Z	13	57	40½	
	e			59	51	
	i		(14)	00	20	
	i			07	32	
6th	e	Z	14	20	45½	Distant tremor.
	i			21	29½	
	eL			23.0	-	
	e	Z	15	07	14½	Distant tremor.
	eL			09.2	-	
	iP	Z	19	55	27½	U.S.C.G.S. 3°N, 126½°E.
	iPPP			56	21	Molucca Strait.
	eScP		(20)	02	32	H = 19 49 47
						Mag. 6.1 (Kiruna)
7th	iP	Z	00	56	46½	
	eP	Z	13	36	55½	B.C.I.S. Insufficient data.
	i!			37	02	
	e			38	35½	
	Deep.					

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8th	eP	Z	03	24	47½	U.S.C.G.S. 3°S, 147½°E.
	i(PP)				56½	Nr. the N.E. Coast of New Guinea.
	e(S)			25.9	-	H = 03 23 33
	e(P)	Z	03	55	22½	(B.C.I.S. New Hebrides Is.
	eL			56.4	-	H = 03 54 00)
	e		(04)	04.2	-	
	e			06	(50)	
	eP	Z	06	08	35½	U.S.C.G.S. 3½°S, 150°E.
	i				36½	New Ireland region.
	e(S)			09.5		H = 06 07 47
	i			11	09½	
	i!				31½	
	e	Z	12	32.3		
	Confused by microseisms					
	eP	Z	14	27	39½	
	i!				45	
	eP	Z	17	19	07½	U.S.C.G.S. 16½°S, 173½°W.
	e				29½	Tonga Is.
						H = 17 12 03
	e(P)	Z	21	27	05½	
	eP	Z	21	28	33½	U.S.C.G.S. 7°S, 102½°E.
						Sumatra. H = 21 19 42
	eP	Z	22	19	45	B.C.I.S. Loyalty Is. Foreshock.
						H = 22 14 20
	eP	Z	22	31.5	-	U.S.C.G.S. 19½°S, 168°E.
	e(SS)			36	21	Loyalty Is.
						H = 22 26 17
9th	Times uncertain owing to power cuts.					
10th	iP	Z	01	06	44	U.S.C.G.S. 9°S, 117°E.
	Dilatation - Deep?					Sumbawa Is.
	iPP			07	54½	H = 00 59 54
	iPPP			08	13½	Mag. 6¾ (Pas)
	i				42	
	i				50	
	i			12	54	
	i			13	48	
	iP!	Z	03	17	30	U.S.C.G.S. 13½°N, 143½°E.
	Dilatation - Deep.					Mariana Is.
	iS			21	05	H = 03 13 11
	i(PcS)			25	12	h approx. = 150 kms.
						Mag. 6¾-7(Pas)
	eP	Z	18	44	58½	B.C.I.S. New Britain region.
	i!				59½	H = 18 43.9m.
	i			45	49	Felt: Kilenge. Int.2(MM)
	i			47	35	5°30'S, 148°20'E.
11th	iP	Z	14	57	(06)± 2 seconds.	U.S.C.G.S. 30°S, 178°W.
						Kermadec Is. H = 14 49 47
						h approx. = 100 kms.
						Mag. 6¾-7(Pas)
	iP	Z	18	56	(50)± 2 seconds.	U.S.C.G.S. 18°N, 120½°E.
	i			57	(08½) " "	Luzon.
	i			58	(22½) " "	H = 18 49 24
	i(PcP)			59	(06½) " "	Mag. 6.8 (Uppsala)

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12th	iP	Z	08	36	58± 2	seconds
	iPP			38	57	U.S.C.G.S. 41½°N, 142½°E.
						Hokkaido
						H = 08 28 34
						Mag. 6.2 (Uppsala)
	iP	Z	10	08	31± 2	seconds
	i			09	30 "	"
	i				38 "	"
	i			10	47 "	"
13th	eP	Z	10	51	00½	U.S.C.G.S. 51½°N, 175°W.
						Andreanov Is.
						H = 10 40 38
						Mag. 7 (Pas)
	e	Z	11	20	(10)	(B.C.I.S. Andreanov Is.
						H = 11 05 00)
	eiP	Z	20	30	17	U.S.C.G.S. 3°S, 101°E.
						Sumatra.
						H = 20 21 42
						h approx. = 150 kms.
	iP	Z	21	33	25	U.S.C.G.S. ½°N, 123½°E.
	e				52	Celebes.
						H = 21 27 18
14th	eP	Z	05	47	(42)	B.C.I.S. 16½°S, 168½°E.
	Confused by microseisms					New Hebrides Is.
						H = 05 42 38
	eP	Z	06	34	40	U.S.C.G.S. 52°N, 175½°W.
	ePP			36	40	Andreanov Is.
	eS			43	10	H = 06 24 20
						Mag. 6¼ (Berk)
	iP!	Z	20	02	31	Felt: Rabaul. Int.1(MM)
	Dilatation (to S.W.?)					04°10'S, 152°10'E.
	iP!	Z	21	02	41	
	Compression from East.					
	i			06	23	
15th	iP	Z	02	30	04	Local
	i				05½	
	i				15	
	i				25½	
	i!				27	
	iP	Z	18	28	55	U.S.C.G.S. 52°N, 171°W.
	ePP			31	21	Fox Is.
	ePPP			32	49	H = 18 18 20
	eL			46	(22)	Mag. 6-6¼ (Matsushiro)
16th	Nil					
17th	e(P)	Z	06	23	(36)	U.S.C.G.S. 15°S, 173½°W.
	Confused by microseisms					Samoa Is. H = 06 16 44
						Mag. 5¾ (Pas.)

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18th	eP	Z	02	22	19	U.S.C.G.S. 14½°N, 96°E. Burma. H = 02 12 12 Mag. 6.4 (Uppsala)
	iP	Z	11	26	13	U.S.C.G.S. 18°N, 120½°E. Luzon. H = 11 18 53 h approx. = 60 kms.
	i			28	46	
	eiP	Z	14	58	(27)	U.S.C.G.S. 14°N, 96°E. Burma. Aftershock. H = 14 48 17 Mag.6.7 (Uppsala)
	eP	Z	18	01	53	U.S.C.G.S. 25°S, 170°E. Loyalty Is. H = 17 56 03 Mag. 6¾ (Matsushiro)
	i				54	
	ePPP			02	55	
	eL			12	-	
	eP	Z	18	50	(20)	(B.C.I.S. Insufficient data)
19th	iP	Z	08	07	17	U.S.C.G.S. 16½°S, 176½°E. Fiji Is. H = 08 01 30 Mag. 6.8 (Uppsala)
	eL			13	-	
	eP	Z	18	18	22	Local shock.
	i				41	
	iP	Z	19	48	19.5	B.C.I.S. New Britain. Insufficient data. Felt: Numundo. Int. 3-4(MM) 5°35'S, 150°10'E. Felt: Kandrian. Int.3(MM) 6°15'S, 149°35'E.
20th	iP	Z	01	11	45½	U.S.C.G.S. 20°N, 145½°E. Mariana Is. H = 01 06 25 Mag. 6.0 (Uppsala)
	i!				51½	
	eP	Z	16	56	13½	
	eL			58	-	
	iP	Z	17	04	18	
	eL			07	-	
	iP	Z	20	01	23	
21st	eP	Z	06	05	45	
	i				49	
	eL			07.5	-	
	eP	Z	06	21	06	
	eL			23	-	
	iP	Z	16	40	57	
	iS			41	30	
	eL			44	-	
	iP	Z	18	24	45	
	e(S)			25	32	
	eP	Z	18	47	29	U.S.C.G.S. 48°N, 155°E. Kurile Is. H = 18 38 03 Mag. 5½ (Moscow)
	eP	Z	20	33	41	B.C.I.S. Probably Mariana Is. Insufficient data.
	eP	Z	22	06	29	B.C.I.S. Discordant data.

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21st	eP	Z	06	05	45	
	i				49	
	eL			07.5	-	
	eP	Z	06	21	06	
	eL			23	-	
	iP	Z	16	40	57	
	iS			41	30	
	eL			44	-	
	iP	Z	18	24	45	
	e(S)			25	32	
	eP	Z	18	47	29	U.S.C.G.S. 48°N, 155°E. Kurile Is. H = 18 38 03 Mag. 5½ (Moscow)
	eP	Z	20	33	41	B.C.I.S. Probably Mariana Is. Insufficient data.
	eP	Z	22	06	29	B.C.I.S. Discordant data.
22nd	iP	Z	18	49	36	Local shock.
	i(S)			50	16	
	eP	Z	20	09	11	Probably foreshock in West New Guinea.
	e	Z	23	08	(38)	" " "
	eL			09.7	-	
	e	Z	23	32	(04)	Probably foreshock in West
	eL			32.8	-	New Guinea.
	e	Z	23	38	(18)	" " "
	e	Z	23	47	(38)	" " "
	Onset of Major Shock near the N. coast of West New Guinea (H = 23 50 23 U.S.C.G.S.) lost during record change.					
23rd	Nil					
24th	Nil					
25th	eiP	Z	10	21	20	U.S.C.G.S. 10°N, 94°E. Adndaman Is. H = 10 11 17
26th	iP! Dilatation to east-south-east.	Z	12	56	03 ± 2 seconds. B.C.I.S. East coast of New Guinea. H = 12 55.5 m. Felt: Warangoi. Int.2(MM) 4°30'S, 152°20'E. (Not Awelkon, as reported).	
27th	eP	Z	00	20	24)	± 2 seconds. B.C.I.S. & U.S.C.G.S.
	i(PP)			22	40)	56½°N, 116°E, Lake Baikal.
	eS			29.3	-)	H = 00 09 28
	eL			49.0	-)	Mag. 7.9 (Uppsala)
	eP	Z	04	09	01	B.C.I.S. 5°N, 127½°E. Mindanao. H = 04 03 00
	e(P)	Z	09	45	39	
	eP	Z	12	55	20	U.S.C.G.S. 22°S, 171°E. Loyalty Is. H = 12 49 51
	e	Z	17	48	38	

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28th	iP	Z	16	36	57	B.C.I.S. Solomon Is.
	i(S)			38	01	H = 16 35.5 m.
						Felt: Buin. Int.2(MM)
						6°50'S, 155°45'E.
29th	iP	Z	07	59	04½	U.S.C.G.S. 51½°N, 166°W.
						Fox Is.
						H = 07 48 18.
						Mag. 6.3 (Uppsala)
30th	Nil.					

The following shocks were reported felt from the Territory, June, 1957.

Date	(G.M.T.) Time	Intensity Mercalli Modified	Locality	Latitude South	Longitude East
				° '	° '
2nd	1022	3	Kiep	05 10	152 00
	1040	2	Warangoi	04 30	152 20
10th	1845	2	Kilenge	05 30	148 20
13th	1225	4	Awelkon	05 40	147 50
14th	2002	1	Rabaul	04 11	152 10
19th	1945	3	Kandrian	06 15	149 35
	1950	3 - 4	Numundo	05 35	150 10
20th	0700	3	Esa'ala	09 45	150 50
	0700	2	Salamo	09 40	150 45
	0755	3	Esa'ala	09 45	150 50
	0755	5?	Salamo	09 40	150 45
	0815	2	Salamo	"	"
	0955	2	Salamo	"	"
	1017	3	Esa'ala	09 45	150 50
	1017 55	3	Esa'ala	"	"
	1020 30	4	Esa'ala	"	"
	1022 23	4	Esa'ala	"	"
	1023 20	3	Esa'ala	"	"
	1028	5?	Salamo	09 40	150 45
	1030	4	Esa'ala	09 45	150 50
	1220	3	Salamo	09 40	150 45
	1223	4	Esa'ala	09 45	150 50
	1318	2	Salamo	09 40	150 45
	1320	3	Esa'ala	09 45	150 50
23rd	0528	2	Awelkon	05 40	147 50
26th	1255	2	Warangoi	04 30	152 20

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VULCANOLOGICAL OBSERVATORY RABAUL.

SEISMOLOGICAL BULLETIN. JULY, 1957.

1st	iP! Compression from south-east.	Z	02	09	17½	B.C.I.S. New Britain Region. Felt: Warangoi. Int.2-3(MM) 4°30'S, 152°20'E. Tol. Int.1(MM) 5°00'S, 152°05'E.
	i	Z	08	50	42½	
	iP	Z	13	56	58	
	iS			57	40	
	iP	Z	17	04	56	
	eP	Z	19	40	47	U.S.C.G.S. 25°N, 94°E. India/Burma Frontier. H = 19 30 16 Mag. 7¼ (Matsushiro)
	i				48	
2nd	i(PP) Confused by blasting.	Z	01	00	17	U.S.C.G.S. 36°N, 53°E. Iran. H = 00 42 23 Mag. 7¼-7½ (Pas)
	eP	Z	14	19	03	
	i(S)				32½	
	iP	Z	15	02	28½	B.C.I.S. Discordant data. (? 2 earthquakes)
	e			09	11	
	i(S)			10	54	
	e			11	28	
	e			31	01	
3rd	eP	Z	12	34	45	U.S.C.G.S. 50½°N, 179°W. Andreanov Is. H = 12 24 37 Mag. 6½-6¾ (Matsushiro)
4th	iP! Dilatation to east-south-east.	Z	14	12	07	U.S.C.G.S. 5°S, 152°E. New Britain. H = 14 11 36 Felt: Pomio. Int.4(MM) 5°30'S, 151°30'E. Rabaul. Int.2(MM) 4°10'S, 152°10'E. Warangoi. Int.1-2(MM) 4°30'S, 152°20'E.
	iP! Compression from south-east.	Z	14	35	13	B.C.I.S. New Britain. Aftershock. H = 14 34 42 Felt: Pomio. Int.4(MM) 5°30'S, 151°30'E. Rabaul. Int.2(MM) 4°10'S, 152°10'E.
	iP Dilatation	Z	15	18	42	
	iS			19	01½	
	iP! Dilatation.	Z	15	45	54½	
	iP! Dilatation to east-south-east.	Z	15	55	00.5	B.C.I.S. Solomon Is.region H = 15 53.8m.

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5th	iP Dilatation.	Z	02	04	46½	Felt: Pomio. Int.3(MM) 5°30'S, 151°30'E.
	iP	Z	02	48	23½	Felt: Pomio. Int.4(MM) 5°30'S, 151°30'E. Kiep. Int.3(MM) 5°10'S, 152°00'E. Ulamona. Int.2(MM) 5°00'S, 151°15'E. Tol. Int.2(MM) 5°00'S, 152°05'E. Rabaul. Int.2(MM) 4°10'S, 152°10'E. Warangoi. Int.1-2(MM) 4°30'S, 152° 20'E.
	iP	Z	11	37	08½	
	eP	Z	12	41	20	U.S.C.G.S. 28½°S, 179°W. Kermadec Is. H = 12 33 56 Mag. 6½ (Matsushiro)
	iP	Z	17	34	36½	
	eP i(S)	Z	19	33	15½ 49	
	iP Dilatation iS	Z	23	41	35 49	
6th	iP iS	Z	02	05	29 54	
	iP! Dilatation to east-south-east.	Z	06	57	47	B.C.I.S. New Britain. H = 06 57.2m. Felt: Rabaul. Int.2(MM) 4°10'S, 152°10'E. Tol. Int.2(MM) 5°00'S, 152°05'E.
7th	iP i	Z	00	50	26½ 35	
	eP iS	Z	11	35 36	45 50	Felt: Aropa. Int.3(MM) 6°25'S, 155°50'E. Buin. Int.1(MM) 6°50'S, 155°45'E.
	eP	Z	15	40	18	B.C.I.S. 13½°S, 165½°E. New Hebrides Is. H = 15 36 15 Mag. 5¾ (Matsushiro)
	eP i!	Z	16	12	29 33	U.S.C.G.S. 6½°S, 156°E. Solomon Is. H = 16 11 15 Mag.6¾ (Pas) Felt: Buin. Int.6(MM) Some damage. 6°50'S, 155°45'E. Aropa. Int.4(MM) 6°25'S, 155°50'E. Kieta. Int.3(MM) 6°15'S, 155°40'E. Karoola. Int.3(MM) 5°10'S, 154°35'E. Rabaul. Int.2(MM) 4°10'S, 152°10'E.

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7th cont.	iP	Z	21	11	02	Felt: Aropa. Int.2(MM)
	iS				56	6°25'S, 155°50'E.
						Buin. Int.1(MM)
						6°50'S, 155°45'E.
8th	iP	Z	05	22	51	
	e			28	55	
	iP	Z	09	42	44	(? Mariana Is. B.C.I.S.)
	iP	Z	12	25	23	
	i				31	
	iP	Z	17	45	13½	
	e			46	17½	
9th	iP	Z	00	26	51	
	ei	Z	10	06	(38)	U.S.C.G.S. 6°S, 104°E.
	Confused by microseisms.					Sumatra. H = 09 58 09
						Mag. 6½ (Matsushiro)
	iP	Z	18	23	56	
	iS			24	17	
10th	iP	Z	02	48	48	
	i(S)			49	12	
	iP	Z	03	47	17	B.C.I.S. Insufficient data.
	iP	Z	10	11	15.5	
	i	Z	10	27	23	Short period pulse.
	iP	Z	13	22	44½	U.S.C.G.S. 20½°N, 123°E.
						Batan Is. H = 13 15 28
	iP	Z	23	01	35½	
	iP	Z	23	02	54½	
11th	iP!	Z	02	05	06½	
	Dilatation.					
	eP	Z	19	41	31½	
	iS			42	20	
	eP	Z	23	53	26	Felt: Buin. Int.1(MM)
	eS			54	21½	6°50'S, 155°45'E.
12th	iP	Z	08	15	27½	B.C.I.S. Banda Sea.
						H = 08 10.6m.
	iP	Z	15	54	23	
	iP	Z	20	55	37	
	eL			56.6	-	
	iP	Z	20	57	18	U.S.C.G.S. 3°S, 148½°E.
	eL			58.4	-	Bismarck Sea. H = 20 56 18
						Mag. 6¼(Matsushiro)
	iP	Z	21	59	42	U.S.C.G.S. 3°S, 148½°E.
	eS		(22)	00.5	-	Bismarck Sea. Aftershock.
	iL			01	36	H = 21 58 45
						Mag.6 (Matsushiro)

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13th	iP	Z	07	48	37½	
	iP	Z	07	50	29½	
14th	eP	Z	02	35	50½	U.S.C.G.S. 46°N, 151½°E.
	i			36	02	Kurile Is.
						H = 02 26 54
						Mag. 5½ (Matsushiro)
	eP	Z	06	30	45½	U.S.C.G.S. 27°S, 178°W.
	i				48½	Kermadec Is. region
	i(PPP)(PcP)			33	07½	H = 06 23 52
	e			35	36½	h approx. = 150 kms.
	i(ScP)(PcS)			36	37½	Mag. 7-7¼ (Pas)
	i			37	00½	
	e				26½	
	e(ScS)			40	42½	
	e				50½	
	eP	Z	08	18	06½	U.S.C.G.S. 30°S, 177°W.
	i				10½	Kermadec Is.
	i				35½	H = 08 10 45
	e(PP)			19	55½	Mag. 6¾(Pas)
	iPcP			20	25½	
	iPcS			24	20½	
	eScS			28	27½	
	e				42½	
	eP	Z	09	20	32.5	U.S.C.G.S. 12½°N, 144°E.
						Mariana Is.
						H = 09 16 12
	eiP	Z	09	49	(30)	U.S.C.G.S. 20°S, 174½°W.
	Confused by microseisms.					Tonga Is. H = 09 42 27
						Mag. 6½ (Matsushiro)
	iP	Z	23	40	04½	
	Compression.					
	iS				25½	
15th	iP	Z	01	44	17	
	Dilatation.					
16th	iP	Z	01	13	25½	
	Dilatation to east-south-east					
	iP	Z	10	00	52	(Felt: Awelkon. Int.1(MM)
	iS			01	16	5°40'S, 147°50'E)
17th	iP	Z	09	52	29	
	Compression.					
	iP	Z	10	14	18.5	
	eP	Z	11	14	01	U.S.C.G.S. 11°S, 167°E.
	iPP				14	Santa Cruz Is.
	i			15	07	H = 11 10 20
	i				17	h = 100 kms.
	eS			16	58	Mag. 6¼-6½ (Pas)
	e			17	00	
	iSS				24	
	iSSS				35½	
	i				59	
	iPcP			18	59	
	eP		12	29	45	U.S.C.G.S. 2°S, 137°E.
	i				47.3	New Guinea.
	i				51½	H = 12 26 06
	iPP				54	
	i			30	17	
	e			33	23	

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18th	eP	Z	11	12	34	U.S.C.G.S. 5°S, 146°E.
	i!PPP				49½	Nr. the N. coast of New Guinea.
						H = 11 10 58
						Felt: Karkar. Int.4-5(MM)
						4°40'S, 146°00'E.
						Madang. Int.3(MM)
						5°15'S, 145°50'E.
						Aiome. Int.3(MM)
						5°10'S, 144°45'E.
						Saidor. Int.3(MM)
						5°35'S, 146°30'E.
						Kumbug Int. ?
						4°20'S, 145°10'E.
19th	iP	Z	13	09	48	U.S.C.G.S. 25°N, 122½°E.
		Dilatation.				Formosa. H = 13 02 05
	i			10	14	Mag. 6-6½ (Matsushiro)
	i			11	00	
	ePPP			12	07½	
	eP	Z	20	28	35	U.S.C.G.S. 3°S, 142°E.
	iPP				42½	Foreshock. N. New Guinea.
	iPPP				49½	H = 20 26 03
	i				56½	Felt: Lumi. Int.5(MM)
	i			29	08	3°30'S, 142°05'E.
	iSS			30	39	Aitape. Int.2(MM)
						3°10'S, 142°20'E.
	eP	Z	21	39	16	U.S.C.G.S. 3½°S, 142°E.
	iPP				31	N. New Guinea.
	iSS			41	19	H = 21 36 46
	iSSS				26	Felt: Lumi. Int.6(MM)
						3°30'S, 142°05'E.
						Aitape. Int.3(MM)
						3°10'S, 142°20'E.
						Nuku. Int.3(MM)
						3°35'S, 142°10'E.
20th	eiP	Z	01	39	25	(Felt: Lumi. Int.4(MM)
						3°30'S, 142°05'E)
	iP	Z	06	58	53	
	iS			59	13	
	iP	Z	07	27	10	
		Compression				
	eP	Z	11	22	18	U.S.C.G.S. 50½°N, 156°E.
						Kamchatka, H = 11 12 53
						h approx. = 60 kms.
						Mag. 5¼(Matsushiro)
	eP	Z	14	16	47	U.S.C.G.S. 43°N, 145°E.
	i			17	04	Hokkaido. H = 14 08 14
						Mag. 6(Uppsala)
	eP	Z	15	45	57	U.S.C.G.S. 19½°S, 174°W.
						Tonga Is. H = 15 38 47
	eP	Z	19	15	26	
	e(P)	Z	20	55	54	B.C.I.S. South Pacific.
						Rather inconclusive data.

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21st	iP	Z	07	00	37½	U.S.C.G.S. 4½°S, 153°E. New Ireland. H = 07 00 10 Mag. 5¾ (Matsushiro) Felt: Namatanai. Int.4(MM) 3°40'S, 152°25' E. Rabaul. Int.3(MM) 4°10'S, 152°10'E. Karoola. Int.3(MM) 5°10'S, 154°35'E. Warangoi. Int.3(MM) 4°30'S, 152°20'E. Kiep. Int.3(MM) 5°10'S, 152°00'E. Tol. Int.2(MM) 5°00'S, 152°05'E. Ulamona. Int.2(MM) 5°00'S, 151°15'E.
	Dilatation to east-south-east.					
	i			06	54	
	i			07	33	
	i			08	47	
	i			09	02	
	iP	Z	07	30	11	Felt: Rabaul. Int.1(MM) 4°10'S, 152°10'E.
	Dilatation.					
	iP	Z	20	36	56	
	iS			37	42	
22nd	eP	Z	06	24	32	U.S.C.G.S. 33½°S, 178°W. Kermadec Is. H = 06 16 52 Mag. 6½-6½ (Matsushiro)
	eP	Z	06	29	31	U.S.C.G.S. 34°S, 177½°W. Kermadec Is. Aftershock. H = 06 21 50
	i				55	
	eP	Z	16	39	35	
	i(S)				44	
	eP	Z	18	36	58	B.C.I.S. Probably New Hebrides Is. Rather inconclusive data.
	iP	Z	09	24	13	Felt: Warangoi. Int.1-2(MM) 4°30'S, 152°20'E.
	Dilatation to east-south-east.					
	i			27	48	
	i			28	29	
	i				32	
	i				41	
	eP	Z	19	36	12	Local shock.
	i				24	
	i				28	
23rd	eiP	Z	00	55	(35)	U.S.C.G.S. 52°N, 177°W. Andreanov Is. H = 00 45 12 Mag. 6¾-7 (Matsushiro)
	Onset confused.					
	eP	Z	06	26	00	U.S.C.G.S. 20½°S, 170°E. Loyalty Is. H = 06 20 43
	eP	Z	13	36	18	U.S.C.G.S. Kermadec Is. H = 13 30 17 h approx. = 600 kms.
	i				36	
	e(S)			41	(28)	
24th	ePKP	Z	02	16	(32)	U.S.C.G.S. 30°S, 70½°W. Chile/Argentine border. H = 01 57 25 Mag. 6½ (Pas)
	iP	Z	03	56	28	Felt: Goroka. Int.2(MM) 6°05'S, 145°25'E.
	Dilatation.					

(cont. over

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24th cont.	eP	Z	06	13	(09)	(Wellington. 35°95S, 179°4W. New Zealand. H = 06 05 34.5 Mag. 5.2 (Wellington))
	eP	Z	06	55	45	
	i				48	
	i			56	34	
	i(S)				37	
	eP	Z	10	02.1	-	U.S.C.G.S. 18°S, 169½°E. New Hebrides Is. H = 09 56 57
	Confused by microseisms.					
	eP	Z	11	07.4	-	U.S.C.G.S. 20°S, 169°E. New Hebrides Is. H = 11 02 30 Mag. 6½ (Pas)
	Confused by microseisms.					
	i				34	
	e				37	
	e(PP)				57	
	i			08	28	
	eP	Z	14	44	52	U.S.C.G.S. 3°S, 134½°E. W. of New Guinea. H = 14 40 45
	eP	Z	15	02	59	(B.C.I.S. 400 kms. south-east of Kermadec Is. H = 14 55.2m.)
	iP	Z	18	29	28	Wellington. 34°S, 177¾°W. S. of Kermadec Is. H = 18 21 18 Mag. 5¼ (Wellington)
	i				39	
	e			30	10	
25th	eP	Z	07	52	40	U.S.C.G.S. 51°N, 177°W. Andreanov Is. H = 07 42 25 Mag. 6¼ (Berk)
	eP	Z	11	59	28	
	eP	Z	14	13	17	Felt: Lae. Int.3(MM) 6°45'S, 147°00'E.
	i				18	
	i				34	
	i!				57	
	iP	Z	17	48	56	
	iS			49	13	
	eP	Z	18	40	04	U.S.C.G.S. 42°N, 142°E. Hokkaido. H = 18 31 36
	iP	Z	20	40	55	
	iS			41	14	
	eP	Z	22	07	(01)	
26th	iP	Z	03	48	13	Felt: Linga Linga. Int.2(MM) 5°35'S, 149°45'E. Talasea. Int.2(MM) 5°20'S, 150°05'E.
	i				59	
	i			49	01	
	i				28	
	iP	Z	05	04	25	
	i				40	
	i(S)			05	15	
	eP	Z	06	57	23	U.S.C.G.S. 35°S, 180°. New Zealand. H = 06 49 42 Mag. 5¾ (Matsushiro)

(cont. over

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26th cont.	eP	Z	14	53	04	
	eP	Z	18	31	22½	
	i!				33.7	
	e(S)				47	
27th	eP	Z	14	52	32	U.S.C.G.S. 20°S, 174½°W. Tonga Is. H = 14 45 28 Mag. 5¾-6 (Matsushiro)
	eiP	Z	15	43	03	U.S.C.G.S. 5½°N, 127½°E. Mindanao. H = 15 37 30
	iP	Z	18	43	57	U.S.C.G.S. 6½°S, 151½°E. New Britain. H = 18 43 01
	Compression from south-south-west.					
	i				59	
	iS!			44	36	
	iL			47.4	-	
28th	eP	Z	01	35	17	U.S.C.G.S. 15°S, 167½°E. New Hebrides Is. H = 01 30 52
	iP	Z	03	00	56	B.C.I.S. 1200 kms. S.W. of Marie-Theresa Reef, South Pacific. H = 02 51.1m.
	e(P)	Z	08	07	02	
	i				16	
	ePKP	Z	08	58	(14)	U.S.C.G.S. 17°N, 99°W.
	e(PP)			59	15	Guerrero, Mexico.
	e		(09)	00	17	H = 08 40 04
	e(PPP)			01	17	Mag. 7.8 (Uppsala)
	i			10	58	
	e(SSS)			(20)	-	
	eL			33	(40)	
29th	eP	Z	09	17	(41)	U.S.C.G.S. 18½°S, 176½°E. Fiji Is. region H = 09 11 49
	eP	Z	10	05	(01)	Wellington. 34°S, 178°W. S. of Kermadec Is. H = 09 57 13 Mag. 5.4 (Wellington)
	eP	Z	13	36	(17)	B.C.I.S. Fiji Is. region H = 13 30.3m.
	ePKP	Z	17	34	30	U.S.C.G.S. 23½°S, 71½°W.
	i				31	Chile. H = 17 15 14
	i				37	Mag. 7-7¼ (Pas)
	ePKS			37	50	
	eP	Z	19	29	(06)	
	iP	Z	23	41	27	
	Dilatation					
	i!				29	
	i				57	
	i			42	03	
	i			44	28	

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30th	iP	Z	01	18	03
		Dilatation			
	i!				05
	i(S)				35
	i				39
	iP	Z	11	05	24
	i				33
31st	iP	Z	10	30	50½
		Dilatation			
	i			31	04
	i				11
	eP	Z	10	56	02
	i(S)			57	05½
	iP	Z	19	04	55
	i			05	20
	i(S)				26
	iP	Z	20	29	23
		Dilatation.			
	i				25½

The following shocks were reported felt from the Territory, July, 1957.

Date	Time	Intensity Modified Mercalli	Locality	Latitude South	Longitude East
				o '	o '
1st	0210	2 - 3	Warangoi	04 30	152 20
	0210	1	Tol	05 00	152 05
2nd	1020	1 - 2	Ulamona	05 00	151 15
4th	0237	1	Kaiapit	06 15	146 15
	1408	1 - 2	Warangoi	04 30	152 20
	1412	2	Rabaul	04 10	152 10
	1415	4	Pomio	05 30	151 30
	1430	4	Pomio	"	"
	1435	2	Rabaul	04 10	152 10
5th	0215	3	Pomio	05 30	151 30
	0245	4	Pomio	"	"
	0248	2	Ulamona	05 00	151 15
	0248	2	Rabaul	04 10	152 10
	0248	2	Tol	05 00	152 05
	0249	3	Kiep	05 10	152 00
	0249	1 - 2	Warangoi	04 30	152 20
6th	0221	2	Angoram	04 05	144 05
	0655	2	Tol	05 00	152 05
	0657	2	Rabaul	04 10	152 10
7th	0658	2	Ulamona	05 00	151 15
	1135	3	Aropa	06 25	155 50
	1135	1	Buin	06 50	155 45
	1610	6	Buin	"	"
		(Some damage)			
	1610	4	Aropa	06 25	155 50
	1613	3	Karoola	05 10	154 35
	1615	3	Kieta	06 15	155 40
	1617	2	Rabaul	04 10	152 10
	2110	2	Aropa	06 25	155 50
	2110	1	Buin	06 50	155 45

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8th	0415	1 - 2	Warangoi	04°30'	152°20'
	1630	1 - 2	Londolovit	03 05	152 40
11th	2355	1	Buin	06 50	155 45
12th	0630	3	Walindi	05 25	150 05
16th	1008	1	Awelkon	05 40	147 50
18th	1110-1112	4 - 5	Karkar	04 40	146 00
	?	3	Madang	05 15	145 50
	1110	3	Aiome	05 10	144 45
	1111	3	Saidor	05 35	146 30
	1115	?	Kumbug	04 20	145 10
19th	1107	2	Goroka	06 05	145 25
	1113	2	Awelkon	05 40	147 50
	2020	?	Lumi	03 30	142 05
	2027	2	Aitape	03 10	142 20
	2030	5	Lumi	03 30	142 05
	2115	2	Lumi	"	"
	2130	3	Nuku	03 35	142 10
	2139	3	Aitape	03 10	142 20
	2140	6	Lumi	03 30	142 05
	2150	1	Lumi	"	"
	2235	3	Lumi	"	"
	2245	1	Lumi	"	"
	2324	1	Lumi	"	"
20th	0135	4	Lumi	"	"
	0155	3	Lumi	"	"
	0230	2	Lumi	"	"
	0250	1	Lumi	"	"
	0440	1	Lumi	"	"
	0450	1	Lumi	"	"
	0515	1	Lumi	"	"
	0730	2	Lumi	"	"
	0824	2	Lumi	"	"
	0919	2	Lumi	"	"
	1930	2	Lumi	"	"
	(2142)	(3)	Lae	06 45	147 00
21st	0015	2	Lumi	03 30	142 05
	0040	2	Lumi	"	"
	0325	3	Lumi	"	"
	0535	1	Lumi	"	"
	0700	3	Rabaul	04 10	152 10
	0700	3	Warangoi	04 30	152 20
	0700	2	Tol	05 00	152 05
	0702	3	Karoola	05 10	154 35
	0702	2	Ulamona	05 00	151 15
	0705	4	Namatanai	03 40	152 25
	0705	3	Kiep	05 10	152 00
	0730	1	Rabaul	04 10	152 10
	(1113)	3	Lae	06 45	147 00
	2010	1	Lumi	03 30	142 05
	2015	4	Lumi	"	"
22nd	0924	2	Lumi	03 30	142 05
	1925	1 - 2	Warangoi	04 30	152 20
	1957	3	Lumi	03 30	142 05
	2220	2	Kilenge	05 30	148 20
24th	0353	2	Goroka	06 05	145 25
	1910	3	Lumi	03 30	142 05
25th	1412	3	Lae	06 45	147 00
26th	0351	2	Linga Linga	05 35	149 45
	0351	2	Talasea	05 20	150 05

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TERRITORY OF PAPUA AND NEW GUINEA

VULCANOLOGICAL OBSERVATORY RABAUL

Seismological Bulletin, August 1957.

August 1st.	eP	Z	16	29	(23)	U.S.C.G.S. 52°N, 170°W. Fox Islands. H=16 18 48 Mag. 5½-5¾(Matsushiro)
	eiP	Z	17	59	41	J.M.A. 29°8N, 139°8E. Honshu. H= 17 53 14 h approx. = 400kms.
2nd.	eP	Z	02	20	16	U.S.C.G.S. 38°S, 178°E. New Zealand. H= 02 12 30 Mag. 5.2 (Wellington)
	Confused by microseisms					
3rd.	No records					
4th.	eiP	Z	00	40	57½	U.S.C.G.S. 3½°S, 145°E. Near the north coast of New Guinea. H= 00 39 12 Mag.6½ - 6¾ (Matsushiro) Felt Manam Is. Int.3-4(M.M.) 4°05'S, 145°05'E Felt Bogia, Int. 3(M.M.) 4°15'S, 144°55'E. Felt Angoram, Int.2(M.M.) 4°05'S, 144°05'E. Felt Karkar Is. Int.2(M.M.) 4°40'S, 146°00'E
	i			41	01½	
	iPPP				13	
	i				16	
	i				24	
	i			42	14	
	i(S)				22	
	i				26	
	eL			43.0	-	
	i			44	11	
	i			45	48	
	e(P)	Z	01	25	18	
	i				46	
	i				54	
	iP	Z	02	20	37½	B.C.I.S. near 4½°S, 155½°E New Britain region. H= 02 19.8m Felt Rabaul, Int.1(M.M.) 4°10'S, 152°10'E. Felt Warangoi, Int. ? 4°30'S, 152°20'E. Felt Karoola, Int. ? 5°10'S, 154°35'E.
	Dilatation					
	i				40	
	i!				41	
	i			24	35	
5th.	iP	Z	08	13	34	U.S.C.G.S. 5°S, 154°E. New Britain region H= 08 12 46 Felt Namatanai, Int. 4(M.M.) 3°40'S, 152°25'E. Felt Aropa, Int. 1(M.M.) 6°25'S, 155°50'E)
	Dilatation (to north-west?)					
	i			17	34	
	i			19	42	
	iPcP			21	37	
	eP	Z	21	38	01½	Wellington. 32½°S, 179½°W. Kermadec Island region. H= 21 30 30 Mag. 5½ - 5¾(Matsushiro)
6th.	Nil					
7th.	eP	Z	19	46	41	U.S.C.G.S. 19½°S, 178°W. Fiji Islands. H= 19 40 46 h approx. = 550kms.
	eS			51	30	
8th.	iP	Z	09	51	52½	B.C.I.S. East coast of New Guinea. H= 09 50.5m Felt Bulolo, Int.3(M.M.) 7°10'S, 146°40'E. Felt Awelkon, Int.2(M.M.) 5°40'S, 147°50'E.
	i			52	11	

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August 9th.	eP	Z	02	32	58	U.S.C.G.S. 2°S, 137°E.
	i			33	05	New Guinea. H= 02 29 20
	iPP				10	Mag. 7(Matsushiro)
	i				12	
	iPPP				17	
	i				25	
	i				36	
	i				43	
	i			34	00	
	i				25½	
	i(S)			35	04½	
	eL			(40)	-	
	eP	Z	10	21	58	
	i!			22	04	
	i				55½	
	eP	Z	13	02	51	
	Confused by microseisms					
	eP	Z	21	55	14	
	Confused by microseisms					
10th.	eiP	Z	02	24	(25)	U.S.C.G.S. 21½°S, 179½°W.
						Fiji Islands region.
						h approx. = 600Kms.
						H= 02 18 38
	iP	Z	05	56	52½	
	Compression					
	i			57	02	
	i				41	
	i			58	50½	
	eP	Z	12	02	17	
	i				19	
	i(S)				50	
	i			03	31	
	i				46	
	iP	Z	19	18	26	U.S.C.G.S.3½°N, 124½°E.
	Compression. Deep					Celebes Sea. H= 19 12 47
	i!				27	h= 300kms. Mag.6-6¼([illegible]
						(Matsushiro)
11th.	e	Z	05	06.7	-	
	Confused by microseisms					
	eP	Z	05	20	(25)	U.S.C.G.S. 38½°S, 177°E.
						New Zealand. H= 05 12 40
						Mag. 5-8 (Wellington)
	iP	Z	19	11	16½	
	iP	Z	21	42	55	U.S.C.G.S. 17½°S, 169°E.
	i			43	00½	New Hebrides Islands.
	i				07	H= 21 38 05
	i				16	
	i				23	
	i				35	
	i			44	18½	
	iP	Z	22	15	15	
	Dilatation					
12th.	iP!	Z	00	00	22	Felt Rabaul, Int.3(M.M.)
	Dilatation to east-south east.					4°10'S, 152°10'E.

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August 12th. cont.	e(P)	Z	00	22	09	
	i(S)				48	
	eP	Z	07	14	20	U.S.C.G.S. 6°N, 124½°E. Mindanao
	i				46	H= 07 08 38
	i			15	13	
13th.	iP!	Z	06	48	38	
	Compression					
	i			50	52½	
	i				58½	
	eP	Z	09	20	01.5	
	i				02	
	iS				27	
	iP	Z	10	40	11	
	iS				41	
	eP	Z	14	48	(40)	U.S.C.G.S. 9½°N, 126°E. Mindanao. H= 14 42 30
	eP	Z	15	58	40	U.S.C.G.S. 23½°N, 121½°E.
	i				41	Formosa. H=15 50 58
	i			59	41½	
	iP!	Z	16	07	49½	Local
	Compression from east-south-east					
	e	Z	18	56	(39)	
	e	Z	19	03	37	
	i	Z	22	02	31	(J.M.A. 40°7'N, 142°9'E. Honshu H= 21 57 11?)
	eP	Z	23	43	(34½)	
	i				35½	
	i				56½	
	i			44	47	
14th.	eP	Z	13	25	(24)	
	i				42	
	i			26	13	
	i(S)				18	
	i				24	
	eP	Z	14	30	09	
	i				10	
	i				24	
	i				29	
	iP	Z	16	18	32	
	Compression					
	i				38	
	i!				41	
	i!				43	
	i				46	
	i			19	04	
	i				17	
	i				45	
	eP	Z	18	33	22	U.S.C.G.S. 21°S, 176½°W.
	i				32½	Tonga Islands. H= 18 26 52
	i				34	h approx. = 200kms.
	i				41	
	ei(PcP)			35	57½	
	e(ScP)			39	24	
	e	Z	21	27	15	

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August 15th.

iP!	Z	20	46	31½	U.S.C.G.S. 4½°S, 155°E.
Dilatation to east-south-east					Solomon Islands region. H= 20 45 20
i				32	h approx. = 500kms
iP	Z	22	15	20½	Felt Sohano, Int. ?
i				41	5°25'S, 154°40'E.
iS				48	

16th.

iP	Z	03	26	51½	U.S.C.G.S. 5°S, 154°E.
Dilatation					New Britain region. H= 03 26 05
i				53	Felt Namatanai, Int.5(M.M.)
i!				54	3°40'S, 152°25'E.
					Felt Karoola, Int.3-4(M.M.)
					5°10'S, 154°34'E.
					Felt Rabaul, Int. 3 (M.M.)
					4°10'S, 152°10'E.
					Felt Londolovit, Int. 2-3(M.M.)
					3°05'S, 152°40'E.
					Felt Warangoi, Int.2-3 (M.M.)
					4°30'S, 152°20'E.
					Felt Kokopo, Int.2 (M.M.)
					4°20'S, 152°15'E.
					Felt Aropa, Int. 2 (M.M.)
					6°25'S, 155°50'E.
					Felt Sohano, Int. 2(M.M.)
					5°25'S, 154°40'E.
					Felt Kiep, Int. 2 (M.M.)
					5°10'S, 152°00'E.
iP	Z	03	54	07	
i(S)				36	
eP	Z	09	35	55½	Felt Sohano, Int. ?
i!			36	26½	5°25'S, 154°40'E.
iP	Z	11	58	01½	U.S.C.G.S. 5°S, 155°E.
Dilatation					Solomon Islands. H= 11 57 16
i				02	Felt Namatanai, Int. 5 (M.M.)
i!				05	3°40'S, 152°25'E.
					Felt Rabaul, Int. 4 (M.M.)
					4°10'S, 152°10'E.
					Felt Karoola, Int. 3(M.M.)
					5°10'S, 154°35'E.
					Felt Kokopo, Int. 3(M.M.)
					4°20'S, 152°15'E.
					Felt Aropa, Int. 3(M.M.)
					6°25'S, 155°50'E.
					Felt Warangoi, Int. 2-3(M.M.)
					4°30'S, 152°20'E.
					Felt Londolovit, Int.2(M.M.)
					3°05'S, 152°40'E.
					Felt Sohano, Int.1-2 (M.M.)
					5°25'S, 154°40'E.
iP	Z	13	26	01	Felt Karoola, Int. 3(M.M.)
Dilatation					5°10'S, 154°35'E.
i				04	Felt Rabaul, Int. 1(M.M.)
i!				14	4°10'S, 152°10'E.
i!				17	
i				24	
i!				26	
i(S)				31	

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August 16th. cont.	eiP	Z	14	49	04	U.S.C.G.S. New Britain region. Aftershock. H= 14 48 19
	Dilatation					
	i				04½	Felt Namatan ai, Int. 3(M.M.)
	i				07½	3°40'S, 152°25'E.
						Felt Rabaul, Int. 2(M.M.)
						4°10'S, 152°10'E.
						Felt Warangoi, Int. 1-2(M.M.)
						4°30'S, 152°20'E.
						(Felt Sohano, Int. 2(M.M.)
						5°25'S, 154°40'E.)
	iP	Z	15	44	38	
	Compression					
	i(S)			45	08	
	iP	Z	15	48	01½	
	e(S)				35	
	i!				39½	
	iP	Z	16	12	50	Felt Karoola, Int. 3(M.M.)
	Dilatation					5°10'S, 154°35'E.
	i				54	
	i(S)			13	20½	
	i!				24	
	i				26	
	i				32	
17th.	iP	Z	02	22	13½	U.S.C.G.S. 4°S, 151°E.
	Dilatation					New Britain. H= 02 21 47
	i				15	Felt Karoola, Int. 3(M.M.)
						5°10'S, 154°35'E.
						Felt Rabaul, Int. 2(M.M.)
						4°10'S, 152°10'E.
						Felt Kiep, Int. 2(M.M.)
						5°10'S, 152°00'E.
						Felt Warangoi, Int. 1-2(M.M.)
						4°30'S, 152°20'E.
						Felt Aropa, Int. 1(M.M.)
						6°25'S, 155°50'E.
						Felt Londolovit, Int.1(M.M.)
						3°05'S, 152°40'E.
	iP	Z	12	07	50	U.S.C.G.S. 5°S, 155°E.
	Dilatation					Solomon Islands. H= 12 07 04
	i				50½	Felt Karoola, Int. 3(M.M.)
	i				53	5°10'S, 154°35'E.
						Felt Ulamona, Int. 2(M.M.)
						5°00'S, 151°15'E.
						Felt Rabaul, Int. 1(M.M.)
						4°10'S, 152°10'E.
						Felt Sohano, Int. 1(M.M.)
						5°25'S, 154°40'E.
	eP	Z	12	46	06	U.S.C.G.S. and B.C.I.S.
						29°N, 141°E. Bonin Island region
						H= 12 39 23. Mag.5½(Matsushiro)
	iP	Z	13	32	32	Felt Rabaul, Int. 2(M.M.)
	Dilatation					4°10'S, 152°10'E.
	i				32½	Felt Londolovit, Int. 1-2(M.M.)
	i				34½	3°05'S, 152°40'E.
	eP	Z	19	04	(37)	B.C.I.S. Samar Island region.
						H= 18 59.7m. Depth greater than normal

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August 18th.	iP Dilatation	Z	00	58	17	Felt Sohano, Int. 1(M.M.) 5°25'S, 154°40'E.
	iP Dilatation	Z	06	39	27	Felt Karoola, Int. 4(M.M.) 5°10'S, 154°35'E.
	i				29	Felt Aropa, Int. 3(M.M.)
	i!				30	6°25'S, 155°50'E.
						Felt Sohano, Int. 1(M.M.) 5°25'S, 154°40'E.
	eP	Z	08	43	29	U.S.C.G.S. 12°N, 124°e.
	i				41½	Philippine Islands. H= 08 36 57
	i(PPP)			44	48	Mag. 6¾(Strasbourg)
	i			45	25	
	i			48	24	
	eS				45	
	eL			49.0-		
	i			49	14	
	i(ScP)			50	01	
	eP	Z	16	01	08	B.C.I.S. New Britain, H= 16 00.9m
	i				08½	Felt Rabaul, Int.3 (M.M.)
	i!				11½	4°10'S, 152°10'E.
	i!				13½	
	eP	Z	21	51	56½	U.S.C.G.S. 50°N, 157°E. North of
	i			52	05	Kurile Islands. H= 21 42 30
	i				10	Mag. 6½(Pas.)
	i				32	
	i			53	14½	
19th.	iP! Compression	Z	00	11	30½	U.S.C.G.S. 4½°S, 153°E. New Britain region. Aftershock. H= 00 11 13 Felt Kiep, Int. 4 (M.M.) 5°10'S, 152°00'E. Felt Rabaul, Int. 4(M.M.) 4°10'S, 152°10'E. Felt Warangoi, Int. 3-4(M.M.) 4°30'S, 152°20'E. Felt Tol, Int. 3(M.M.) 5°00'S, 152°05'E. Felt Pomio, Int. 3(M.M.) 5°30'S, 151°30'E. Felt Kokopo, Int. 3(M.M.) 4°20'S, 152°15'E. Felt Ulamona, Int. 2(M.M.) 5°00'S, 151°15'E.
	iP!	Z	02	42	05	U.S.C.G.S. New Britain region. Aftershock. H= 02 41 14 Felt Karoola, Int. 3(M.M.) 5°10'S, 154°35'E. Felt Kokopo, Int. 2(M.M.) 4°20'S, 152°15'E. Felt Rabaul, Int. 1-2(M.M.) 4°10'S, 152°10'E. Felt Warangoi, Int. 1-2(M.M.) 4°30'S, 152°20'E.
	iP!	Z	04	04	50½	Felt Warangoi, Int. 1-2(M.M.) 4°30'S, 152°20'E.
	iP	Z	11	37	25	U.S.C.G.S. 10°S, 161°E.
	i				37½	Solomon Islands. Foreshock.
	e			40	04	H= 11 34 36. Mag. 6½(Pas.)
	e			43	52	
	eiP	Z	22	23	12	

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August 20th.	iP	Z	06	30	02½	U.S.C.G.S. 10°S, 161°E.
	e			32	35	Solomon Islands. Foreshock.
	e				44	H= 06 27 07. Mag.6-6¼(Pas.)
	e			35	13	
	e			37	18	
	Confused by microseisms					
	iP	Z	12	04	40	U.S.C.G.S. 10°S, 161°E.
	i(PP)				57	Solomon Islands. H= 12 01 54
	i			06	40	Mag. 6½(Pas.)
	i				50	
	e			07	50	
	e			12	59	
	e			13	55	
21st.	eP	Z	10	23	18	
	i!				19½	
	eP	Z	17	25	23	Felt Buin, Int. 4(M.M.)
	i				29½	6°50'S, 155°45'E.
	i			26	24	Felt Aropa, Int. 3(M.M.)
						6°25'S, 155°50'E.
22nd.	eP	Z	08	00	47	U.S.C.G.S. 1°N, 126°E.
	i				49	Molucca Strait. H= 07 55 06
	i			01	04	
	i			02	03	
	eP	Z	15	32	47	U.S.C.G.S. 3°N, 126½°E.
	i				48½	Molucca Strait. H= 15 27 10
	eP	Z	16	48	05	U.S.C.G.S. 15°S, 168°E.
	i				09	New Hebrides Islands.
	i				59	H= 16 43 35
	eS			51	38	
	i(PcP)			52	26	
	e	Z	16	59	42	
	eP	Z	18	40	50	B.C.I.S. near 38°N, 87°E.
	i				52	Sinkiang Province, China.
						H= 18 27.3m.
	eP	Z	18	58	37	
	e			59	09	
23rd.	eiP	Z	02	00	57	U.S.C.G.S. 6°S, 154½°E.
						Solomon Islands. H= 02 00 09
						h approx. = 60kms. Mag.6½(Pas.)
						Felt Namatanai, Int. 5 (M.M.)
						3°40'S, 152°25'E.
						Felt Kokopo, Int. 5 (M.M.)
						4°20'S, 152°15'E.
						Felt Rabaul, Int. 5 (M.M.)
						4°10'S, 152°10'E.
						Felt Karoola, Int.4-5(M.M.)
						5°10'S, 154°35'E.
						Felt Sohano, Int.4-5(M.M.)
						5°25'S, 154°40'E.
						Felt Warangoi, Int.4-5(M.M.)
						4°30'S, 152°20'E.
						Felt Londolovit, Int. 4(M.M.)
						3°05'S, 152°40'E.
						Felt Aropa, Int. 4(M.M.)
						6°25'S, 155°50'E.
						Felt Kiep, Int. 3(M.M.)
						5°10'S, 152°00'E.
						Felt Fead Islands, Int.3(M.M.)
						3°25'S, 154°45'E.

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August 23rd. cont.	eiP	Z	02	00	57	Continued. Felt Ulamona, Int.2 (M.M.) 5°00'S, 151°15'E. Felt Kieta, Int. 2 (M.M.) 6°15'S, 155°40'E.
	eP	Z	02	33	07½	Felt Warangoi, Int.1-2 (M.M.) 4°30'S, 152°20'E. Felt Aropa, Int. 1 (M.M.) 6°25'S, 155°50'E. Felt Sohano, Int. 1 (M.M.) 5°25'S, 154°40'E.
	i!				08	
	eP	Z	11	50	16	U.S.C.G.S. 24°N, 122°E. Formosa. H= 11 42 34 Mag. 5¼(Moscow)
	i				21	
	eP	Z	13	34	35	Felt Rabaul, Int. 2 (M.M.) 4°10'S, 152°10'E. Felt Warangoi, Int. 1-2 (M.M.) 4°30'S, 152°20'E.
	i				35½	
	eP	Z	16	20	11	B.C.I.S. 0°, 126½°E. Molucca Strait. H= 16 14 30.
	i				13½	
24th.	+eiP	Z	01	28	09	Felt Rabaul, Int. 2 (M.M.) 4°10'S, 152°10'E. + eP Z 01 08 43 B.C.I.S. 19½°S, 175°W. Tonga Islands H= 01 01 58
	eiP	Z	01	46	07	
	i				27	
	iP!	Z	12	14	06	Compression. Deep?
	iP!	Z	16	58	16	Dilatation. Deep?
	iP!	Z	17	33	38	
	i				52½	Compression. Deep?
	eP	Z	23	05	38	
	i!				42	
	i			06	44	Deep?
25th.	iP!	Z	14	43	16½	Felt Warangoi, Int. 1-2 (M.M.) 4°30'S, 152°20'E. Compression
	i				22½	
	e	Z	16	20	20	
	i				27	
	iP!	Z	18	13	59½	
	i			14	16	
	i				18	
	eP	Z	21	18	(36)	U.S.C.G.S. 10°S, 111°E. Java. H= 21 11 45
26th.	ePKP	Z	11	48	09	U.S.C.G.S. 18°S, 63°W. Bolivia H= 11 28 50 Mag.6.-6 (Pas.)
	i			50	13	
	ePP			51	05	
	ePKS			52	03	
	ePKP	Z	14	17	53	U.S.C.G.S. 2°S, 81°W. Ecuador. H= 13 58 48. Mag. 6 (Pas.)

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August 26th. cont.	iP Dilatation	Z	19	54	17	U.S.C.G.S. 5½°S, 154°E. Solomon Islands region.
	i				22	H= 19 53 33. h approx. = 100kms. Felt Londolovit, Int. 3 (M.M.) 3°05'S, 152°40'E. Felt Rabaul, Int. 2 (M.M.) 4°10'S, 152°10'E. Felt Warangoi, Int. 1-2 (M.M.) 4°30'S, 152°20'E. Felt Ulamona, Int. 1 (M.M.) 5°00'S, 151°15'E.
27th.	eP	Z	21	02	15	U.S.C.G.S. 25½°S, 178°E. Fiji Is.
	i				16½	H= 20 56 29. h approx. = 650kms.
	i				20	
	i				22½	
	e(PcP)			04	38	
	e(ScS)			11	37	
	i	Z	21	07	31	
	e	Z	22	04	56	
28th.	eP	Z	23	22	30	B.C.I.S. Mariana Islands. Foreshock. H= 23 17.2m.
	eP	Z	23	27	56½	U.S.C.G.S. 21°N, 145°E.
	iPPP			28	50	Mariana Is. Foreshock. H= 23 22 21. Mag.5-7(Kiruna)
	eP	Z	23	55	45½	U.S.C.G.S. 21°N, 145°E. Mariana Is. H= 23 50 15.
29th.	eP	Z	01	03	19½	U.S.C.G.S. 21°N, 145°E.Aftershock. Mariana Is. H= 00 57 45.
	eP	Z	02	20	50	B.C.I.S. near 21°N, 145°E.
	i			21	01	Mariana Is. H= 02 15.3m
	eP	Z	16	45	56½	U.S.C.G.S. Mariana Is. Aftershock. H= 16 40 22
30th.	eP	Z	16	30	31½	U.S.C.G.S. 39°N, 73°E. Tadjikistan. H= 16 17 56 Mag. 5½(Moscow)
	iP	Z	20	11	27½	U.S.C.G.S. 20½°N, 121½°E. Batan Island region. H=20 04 01 Mag. 5-6 (Uppsala)
	eP	Z	20	50	(48)	U.S.C.G.S. Mariana Is.Aftershock. H= 20 45 18

31st. No records.

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The following shocks were reported felt from the Territory:

Date 1957	Reported Time (G.M.T)	Intensity (Mod.Mercalli)	Locality	Lat.South ° '	Long.East ° '
Aug. 3rd.	0650	3	Lumi	03 30	142 05
	0655	2	Lumi	" "	" "
	0720	1	Lumi	" "	" "
4th.	0037	2	Karkar Is.	04 40	146 00
	0040	2	Angoram	04 05	144 05
	0042	3-4	Manam Is.	04 05	145 05
	0046	3	Bogia	04 15	144 55
	0220	1	Rabaul	04 10	152 10
	0221	3	Karoola	05 10	154 35
	0224	?	Warangoi	04 30	152 20
5th.	0815	4	Namatanai	03 40	152 25
	0815	1	Aropa	06 25	155 50
8th.	0750	3	Bulolo	07 10	146 40
	0950	3	Bulolo	" "	" "
	0952	2	Awelkon	05 40	147 50
12th.	0000	3	Rabaul	04 10	152 10
13th.	0346	1	Kokoda	08 50	147 45
15th.	c.2200	?	Sohano	05 25	154 40
16th.	0325	5	Namatanai	03 40	152 25
	0325	2	Aropa	06 25	155 50
	0326	3-4	Karoola	05 10	154 35
	0327	2	Kiep	05 10	152 00
	0328	2-3	Londolovit	03 05	152 40
	0327	3	Rabaul	04 10	152 10
	0330	2	Kokopo	04 20	152 15
	0330	2-3	Warangoi	04 30	152 20
	0330	2	Sohano	05 25	154 40
	c.(1400)	3	Karoola	05 10	154 35
	1326	1	Rabaul	04 10	152 10
	1450	3	Namatanai	03 40	152 25
	1449	2	Rabaul	04 10	152 10
	1450	1-2	Warangoi	04 30	152 20
	1610	3	Karoola	05 10	154 35
17th.	0220	1	Aropa	06 25	155 50
	0222	3	Karoola	05 10	154 35
	0222	2	Rabaul	04 10	152 10
	0225	1-2	Warangoi	04 30	152 20
	0225	1	Londolovit	03 05	152 40
	0226	2	Kiep	05 10	152 00
	1207	3	Karoola	05 10	154 35
	1207	1	Rabaul	04 10	152 10
	1200	1	Sohano	05 25	154 40
	1205	2	Ulamona	05 00	151 15
	1332	2	Rabaul	04 10	152 10
	1334	1-2	Londolovit	03 05	152 40

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Date Aug.	Reported Time G.M.T.	Intensity (Mod.Mercalli)	Locality	Lat. south °	'	Long. East °	'
18th.	0105	1	Sohano	05	25	154	40
	0155	1	Sohano	"	"	"	"
	0225	2	Ulamona	05	00	151	15
	0640	4	Karoola	05	10	154	35
	0640	3	Aropa	06	25	155	50
	0650	1	Sohano	05	25	154	40
	1601	3	Rabaul	04	10	152	10
19th.	0010	3	Pomio	05	30	151	30
	0011	4	Rabaul	04	10	152	10
	0012	3-4	Warangoi	04	30	152	20
	0012	2	Ulamona	05	00	151	15
	0014	4	Kiep	05	10	152	00
	0014	3	Tol	05	00	152	05
	0015	3	Kokopo	04	20	152	15
	0243	3	Karoola	05	10	154	35
	0242	1-2	Rabaul	04	10	152	10
	0245	1-2	Warangoi	04	30	152	20
	(c.0300)	2	Kokopo	04	20	152	15
	0315	1	Sohano	05	25	154	40
	0406	1-2	Warangoi	04	30	152	20
21st.	(1625)	4	Buin	06	50	155	45
	1725	3	Aropa	06	25	155	50
22nd.	0152	3	Fead Is.	03	25	154	45
	0158	5	Namatanai	03	40	152	25
	0159	4-5	Karoola	05	10	154	35
	0200	3	Kiep	05	10	152	00
	0200	4-5	Warangoi	04	30	152	20
	0200	4	Aropa	06	25	155	50
	0201	5	Rabaul	04	10	152	10
	0202	4	Londolovit	03	05	152	40
	0203	2	Ulamona	05	00	151	15
	0203	4-5	Sohano	05	25	154	40
	0203	2	Kieta	06	15	155	40
	0207	5	Kokopo	04	20	152	15
	0227	1	Sohano	05	25	154	40
	0233	1	Aropa	06	25	155	50
	0235	1-2	Warangoi	04	30	152	20
	1334	2	Rabaul	04	10	152	10
	1340	1-2	Warangoi	04	30	152	20
24th.	0128	2	Rabaul	04	10	152	10
25th.	1445	1-2	Warangoi	04	30	152	20
26th.	1954	2	Rabaul	04	10	152	10
	1955	1	Ulamona	05	00	151	15
	1956	3	Londolovit	03	05	152	40
	(20)55	1-2	Warangoi	04	30	152	20

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TERRITORY OF PAPUA AND NEW GUINEA

VULCANOLOGICAL OBSERVATORY RABAUL

Seismological Bulletin. September 1957

September 1st.	Nil					
2nd.	iP	Z	00	04	59	U.S.C.G.S. 18°N147½°E
	Compression					Mariana Is. H=23 59 54
	i			05	21	Mag. 5.9 (Uppsala)
	eP	Z	20	21	19½	B.C.I.S. Solomon Is. region. H=20 18.7m
	Record confused by microseisms.					
3rd.	eP	Z	06	10	42½	U.S.C.G.S. 12°S 167°E
						Santa Cruz Is. H=06 06 42.
4th.	eP	Z	01	35	23½	U.S.C.G.S. 12°S 167°E
						Santa Cruz Is. H=01 31 23
	iP!	Z	11	24	37	B.C.I.S. New Britain region
	Compression					Felt Rabaul, Int. 2(M.M.)
						4°10'S, 152°10'E
	iP!	Z	12	26	50½	B.C.I.S. Near 4°S, 156½°E
	Compression					New Britain. H=12 26.6m
						Felt Rabaul, Int. 3(M.M.)
						4°10'S, 152°10'E
	iP!	Z	22	14	31	Felt Rabaul, Int. 1-2(M.M.)
	Compression					4°10'S, 152°10'E
	iP	Z	22	37	24½	
	i(S)			53		
5th.	eP	Z	09	29	56.8	
	i!				57.1	
	i			30	24½	
	Deep?					
6th.	iP	Z	01	19	04	B.C.I.S. near 18°N, 146°E
	Confused by microseisms					Mariana Is. H=01 14.9M
	iP	Z	05	45	50	
	i			46	09	
	i(S)				18½	
	i				38	
7th.	iP	Z	06	58	02	U.S.C.G.S.50°N, 156°E
	Compression					Kurile Is. H=06 48 36
	eP	Z	10	16	(45)	U.S.C.G.S 51½°N, 178½°W
	confused by microseisms					Andreanof Is. H=10 06 47
						Mag.6-8 (Tacubaya)
	iP		19	31	43	
	Compression					
	i				46	
	i				50	
	i				57	
8th.	eP	Z	08	44	21	U.S.C.G.S. 2°S, 141°E.
	iPP				30	N. coast of New Guinea
	iPPP				37	H=08 41 26
	iP	Z	09	33	14	Felt Lae, Int. 3(M.M.)
	i				21	6°45'S, 147°00'E
	i				34½	Felt Awelkon, Int.1(M.M.)
	i(S)			34	21	5°40'S, 147°50'E.

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September 8th.	iP!	Z	13	19	13	U.S.C.G.S.5°S,152°E
	Dilatation to south-south east					New Britain.H=13 18 55
						h approx = 60kms.
						Felt Kokopo, Int.5(M.M.)
						4°20'S, 152°15'E
						Felt Warangoi, Int.3-4(M.M)
						4°30'S, 152°20'E
						Felt Rabaul, Int. 3(M.M.)
						4°10'S, 152°10'E
						Felt Kiep, Int.3(M.M.)
						5°10'S, 152°00'E
						Felt Pomio, Int.2(M.M.)
						5°30'S, 151°30'E.
9th.	eP	Z	00	23	56	U.S.C.G.S. 48°S, 100°E
	i				58	Indian Ocean
	i(PcP)			24	26	H= 00 13 30
	e			25	04	
	e(PPP)			27	30	
	e(ScS)			33	29	
	i(SSS)			39	26½	
	eP	Z	04	55	(45)	B.C.I.S. 9½°S, 161¾°E
	e			57	31	Solomon Islands
	i(S)			58	04	
	Confused by microseisms					
	e	Z	11	31	12½	
	iP	Z	16	02	49	
	Dilatation					
	i!				51	
	iS!			03	14	
10th.	Nil					
11th.	iP	Z	05	03	42	Felt Pomio, Int.2(M.M.)
	Compression					5°30'S, 151°30'E
	iS				54½	
	iP	Z	14	27	33½	U.S.C.G.S. New Ireland region
	i				52½	H= 14 26 45
	i			28	06½	
	eL				47	
	e			30	41	
	iP	Z	15	09	19½	
	Compression					
	i			10	04½	
	eL				12	
	e			12	18	
12Eh.	Nil					
13th.	iP	Z	20	17	32½	Deep?
	Dilatation to south-east					
	i				39½	
	iS				55	
	i			18	11	
	i				31	
14th.	eP	Z	06	18	24	U.S.C.G.S. 4°S, 130°E
	Confused by microseisms					Ceram. H=06 13 20
	iP	Z	13	57	48½	U.S.C.G.S. 5½°S, 147°E. Near the
	i				56	north coast of New Guinea
	i			58	04	H= 13 56 25
	i				08	Felt Lae, Int.4(M.M.) 6°45'S,
	i				27	147°00'E.

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September 15th.	eP	Z	18	42	59½	U.S.C.G.S. 6°S, 153½°E.
	i!			43	00.3	Solomon Islands, H= 18 42 20
						h approx. =150kms.
						Felt Karoola, Int. 5(M.M.)
						5°10'S, 154°35'E.
						Felt Londolovit, Int.5(M.M.)
						3°05'S, 152°40'E.
						Felt Rabaul, Int. 4(M.M.)
						4°10'E, 152°10'E
						Felt Warangoi, Int. 3-4(M.M.)
						4°30'S, 152°20'E.
						Felt Ulamona, Int. 1-2(M.M.)
						5°00'S, 151°15'E.
						(?Felt Kokopo, Int.5(M.M.)
						4°20'S, 152°15'E.
						?Felt Kiep, Int. 3(M.M.)
						5°10'S, 152°00'E.)
	iP	Z	22	05	32½	Felt Rabaul, Int.1(M.M.)
	i				39	4°10'S, 152°10'E.
	iS			(06.0)	-	
16th.	iP	Z	04	19	57	Felt Kiep, Int. 3(M.M.)
						5°10'S, 152°00'E.
	eP	Z	12	59	49	
	iS		(13)	00	26	
17th.	iP	Z	21	32	00½	
	i				11½	
	i(S)				(28)	
18th.	e	Z	06	36	06½	
	e	Z	07	02	(56)	
19th.	eP	Z	17	08	36½	U.S.C.G.S.19°S, 176°W. Tonga Is.
						H=17 02 02; h approx.= 200kms.
	iP	Z	19	15	55½	
	Compression					
	i			16	01½	
	i				19½	
	i			19	52½	
	i				53½	
20th.	e	Z	08	00	51	
	iP	Z	08	34	29½	U.S.C.G.S.46°N, 151½°E.Kurile Is.
						H=08 25 19
	e	Z	17	54	02½	
	i	Z	23	17	38.3	
	e(P)	Z	23	18	00	U.S.C.G.S. 52°N, 170½°W. Fox Is.
						H= 23 07 22
21st.	eP	Z	00	19	24½	
	iS				49	
	eP	Z	15	56	09.5	B.C.I.S. New Zealand H=15 48.7m
	e(PKP) (PP)	Z	20	36	23	U.S.C.G.S. 40½°N, 34½°E. North Turkey.H=20 16 53 Mag.5-7 (Uppsala)
22nd.	Nil					

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September 23rd.	iP	Z	09	27	39	U.S.C.G.S. 6°S, 131°E. Banda Sea
	i			28	05	H= 09 22 36
	i				37½	
	i			29	29	
	iP	Z	11	38	31½	Felt Karoola, Int.2(M.M.)
	i				34½	5°10'S, 154°35'E.
	i				38½	
	iS				52½	
24th.	eP	Z	08	26	52½	U.S.C.G.S. 5½°N, 127½°E.
	i			27	16½	Mindanao, H= 08 21 05
	iPPP				42	Mag. 7¾ (Pas.)
	e			28	43	
	i			30	01	
	i				52	
	i			31	56	
	iSS			32	43½	
	i(SSS)				56½	
	eScP			33	50	
	e			37	35	
	eScS				45	
	e			59	34	
	eP	Z	09	16	13	U.S.C.G.S. 6°N, 127°E. Mindanao Aftershock. H= 09 10 30.
	e	Z	09	27	09	
	eP	Z	13	00	23	
	i				23½	
	i!				28½	
	e(S)	W			49½	
	e(P)	Z	17	18	(15)	
	eP	Z	17	44	28	
	i				28½	
	i				29½	
	i				43½	
	eS				50½	
25th.	e	Z	02	19	29½	
	Confused by microseisms					
	eL			20.4	-	
	eP	Z	04	04	38½	Felt Warangoi, Int.?
	i				39½	4°30'S, 152°20'E.
	eS	W		05	02	Felt Londolovit, Int.?
						3°05'S, 152°40'E.
	eP	Z	05	31	38½	
	i				38.7	
	i(S)				50½	
	e	Z	06	15	35½	
	e	Z	06	59	(00)	B.C.I.S. discordant data
	i				13½	
	eL			59.5	-	
	eP	Z	07	00	08½	B.C.I.S. discordant data
	eL			00.9	-	
	e			11.1	-	
	Confused by microseisms					

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September 25th. cont.	eP	Z	09	39	(47)	B.C.I.S. New Hanover region.
	i				50½	H= 09 38.9m
	iPP				55.4	
	iPPP				59.0	
	e			40	(47)	
	eL			41	04	
	eP	Z	09	59	15½	
	i				21½	
	i		(10)	00	06½	
	eP	Z	10	18	43½	Felt Rabaul, Int. 1(M.M.)
	i				44.0	4°10'S, 152°10'E.
	i				51½	
	iS	W			58	
	iP	Z	13	35	41½	
	Compression					
	iS			36	00	
	e	Z	13	58	(28½)	
	eP	Z	14	11	15	B.C.I.S. 2°S, 140°E. Near the
	i				23	north coast of New Guinea.
						H= 14 08.0m
	e	Z	15	33	10	B.C.I.S. Mindanao aftershock
						H= 15 27 18
	eP	Z	16	35	38	B.C.I.S. Mindanao aftershock
	e			42	07	H= 16 29 44
	e			49	27	
	eP	Z	16	42	17	Moscow, 6°N, 127½°E. Mindanao
	i				29.4	H= 16 36 38. Mag. 6(Uppsala)
	eP	Z	18	05	07	B.C.I.S. Near 15°S, 167°E.
						New Hebrides Islands. H= 18 00.4m
	e(P)	Z	23	40.0	-	U.S.C.G.S. 5½°N, 127½°E.
						Mindanao. H= 23 33 30.
26th.	e	Z	02	38	05	U.S.C.G.S. 5°N, 127°E. Mindanao.
						H= 02 32 01
	eP	Z	10	13	27½	U.S.C.G.S. 300kms south of
	i				40	Mindanao. H= 10 07 42.
	eP	Z	10	27	20	B.C.I.S. Mindanao. H= 10 22 33
	iP	Z	12	10	35	U.S.C.G.S. 39½°S, 174½°E.
	i			11	02½	New Zealand. H= 12 03 01
	i				08	h= 150kms. Mag.6.0 (Wellington)
	i				41	
	iPP			12	33	
	iPPP			13	08	
	iP	Z	12	16	17½	Deep?
	i!				18	
	i				25½	
	i			17	21	
	eP	Z	14	26	35	B.C.I.S. Mindanao. H= 14 20 50
	iP	Z	18	24	25	
	Compression					
	eP	Z	18	52	29	U.S.C.G.S. 5°N, 126½°E. Mindanao.
	i				40	H= 18 46 4[illegible]. Mag. 6.0(Uppsala)
	i				45	
	i			54	47½	

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September 26th. cont.	e(P)	Z	19	06	22	
	iP	Z	20	31	45	
	Dilatation					
	i				49½	
	i				54	
	i			32	15	
	eS				23	
27th.	iP	Z	04	13	54	U.S.C.G.S. 1°S, 127°E. Molucca
	i			16	30	Sea. H= 04 08 23. Mag.6.2(Uppsala)
	e(S)			18	27	
	eScP			21	09	
	Confused by blasting					
	iP	Z	04	24	14½	U.S.C.G.S. 1°S, 127½°E.
	i				41	Molucca Sea. Aftershock.
	iPP				50	H= 04 18 49
	iP	Z	05	10	09	U.S.C.G.S. 64°N, 178°E.
						North Siberia. H= 04 58 52.
	e(P)	Z	05	39	05	
	iP	Z	06	02	18½	U.S.C.G.S. 1°S, 127°E. Molucca
	i				30	Sea. Aftershock. H= 05 56 50
	i				54	
	i(PP)			03	04	
	e				35	
	i			08	55	
	iP	Z	14	29	01	U.S.C.G.S. 18°N, 121°E. Luzon.
						H= 14 21 43
	iP	Z	18	54	15.6	J.M.A. 33¾°N, 136¾°E. Honshu.
						H= 18 47 21. h approx= 360kms.
28th.	iP	Z	00	34	05	U.S.C.G.S. 30½°N, 137½°E.
	i				32½	Honshu.,H= 00 27 31, h approx =
	i(S)			39	15	500kms. Mag. 6¾(Pas)
	i(ScP)				23	
	e(ScS)			43	25	
	iP	Z	02	54	13	
	iP	Z	04	15	21	U.S.C.G.S. 3°S, 135½°E. Near the
	iPPP				43	north coast of New Guinea
	i				54	H= 04 11 23
	i			16	11	
	i				17	
	eP	Z	14	25	49	U.S.C.G.S. 20½°S, 178°W. Fiji Is.
	i				50	H= 14 20 00. h approx = 650kms
	i!				51	Mag.7½(Pas)
	i!				54	
	i!pP			27	31	
	i!(Pcp)			28	20½	
	i			30	06	
	i(S)				22	
	i(ScP)			31	09	
	i(PcS)			32	14	
	e(SS)			34	13	
	e(ScS)			35	09	
	eL			41	-	

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September 28th.	eP	Z	14	49	53	U.S.C.G.S. 20½°S, 178½°W.
	i				57	Fiji Islands. H= 14 44 02
	i(PcP)			52	22	Aftershock. h approx.= 600kms.
	eS			54	31	
	i			56	15	
	e				58	
	e		(15)	04	17	
	e			07	25	
	e	Z	16	10	39	
	eP	Z	17	38	17	
	i				17.7	
	i				26	
	e	Z	18	30	47½	
	iP	Z	21	08	00½	U.S.C.G.S. 17½°S, 146°E.
	i				41	Mariana Islands. H= 21 03 18
						h approx. = 200kms.

The records for 28th September are not available for further study.

29th.	eP	Z	02	19	36	(B.C.I.S.) 64½°S, 172½° W
						South Pacific
	iP	Z	06	43	18½	U.S.C.G.S. 0°, 124°E. Celebes.
						H= 06 37 33. h approx = 200kms
	iP	Z	08	19	12.5	U.S.C.G.S. 25°S, 178½°E. Fiji Is.
	Dilatation					H= 08 13 22. h approx. = 600kms
	i!				14½	Mag. 6¼(Berk.)
	i				54½	
	e			20	50	
	iPP			21	41	
	i				49	
	i			22	27	
	i				52	
	i			23	39	
	iS				56	
	i!ScP			24	34	
	i			28	39	
	i			41	36	
	i			46	16	
	eP	Z	10	18	06	
	i				07	
	i				32½	
	iP	Z	13	40	30.7	
	e				43	
	i				44	
	i			49	05½	
	e	Z	16	01	18	
	eP	Z	17	40	11	B.C.I.S. 4°N, 126¼°E. Mindanao.
	i			41	08	H= 17 34 16
30th.	e(P)	Z	11	31	45½	
	eP	Z	12	12	06	U.S.C.G.S. 1½°S, 126½°E.
						Molucca Sea. H= 12 06 43

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The following shocks were reported felt from the Territory:

Date 1957	Reported Time (G.M.T)	Intensity (Mod.Mercalli)	Locality	Lat.South °	'	Long.East °	'
Sept. 1st.	2224	2	Awelkon	05	40	147	50
4th.	0930	1	Awelkon	05	40	147	50
	1124	2	Rabaul	04	10	152	10
	1226	3	Rabaul	"	"	"	"
	2214	1-2	Rabaul	"	"	"	"
7th.	1518	3	Lae	06	45	147	00
8th.	0932	3	Lae	06	45	147	00
	0935	1	Awelkon	05	40	147	50
	1319	3	Rabaul	04	10	152	10
	1320	3	Kiep	05	10	152	00
	1320	3-4	Warangoi	04	30	152	20
	1320	2	Pomio	05	30	151	30
	13(3)0	5	Kokopo	04	20	152	15
	1(4)40 (?1540)	2-3	Warangoi	04	30	152	20
11th.	0502	2	Pomio	05	30	151	30
14th.	1357	4	Lae	06	45	147	00
15th.	1(6)55	3	Kiep	05	10	152	00
	(1700)	5	Kokopo	04	20	152	15
	1843	5	Karoola	05	10	154	35
	1843	4	Rabaul	04	10	152	10
	1844	3-4	Warangoi	04	30	152	20
	1845	5	Londolovit	03	05	152	40
	1845	1-2	Ulamona	05	00	151	15
	2205	1	Rabaul	04	10	152	10
16th.	0418	3	Kiep	05	10	152	00
(18th) (?19th)	1123	2	Kiep	05	10	152	00
23rd.	1141	2	Karoola	05	10	154	35
25th.	0406	?	Londolovit	03	05	152	40
	0407	?	Warangoi	04	30	152	20
	1018	1	Rabaul	04	10	152	10

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TERRITORY OF PAPUA AND NEW GUINEA

VULCANOLOGICAL OBSERVATORY RABAUL

Seismological Bulletin, October 1957.

Oct.	1st.	iP	Z	07	13	15	U.S.C.G.S. 5½°S, 155°E. Solomon Islands. H= 07 12 26 h approx.= 100kms. Felt Londolovit, int.1-2 (M.M.) 3°05'S, 152°40'E. Felt Rabaul, Int. 1(M.M.) 04°10'S, 152°10'E.
		eiP	Z	21	10	55½	
		i!			11	02½	
		i(S)				(18½)	
	2nd.	eP	Z	01	54	09½	B.C.I.S. 2½°S, 126¾°E. Molucca
		i				11	Sea. H= 01 48 39
		eP	Z	11	30	47	U.S.C.G.S. 5½°N, 127°E.
		i			31	08½	Mindanao. H= 11 25 02
		eP	Z	12	47	35½	(B.C.I.S. Insufficient data)
		i				36	
		i			48	00½	
		i				30½	
	3rd.	eP	Z	06	02	38	U.S.C.G.S. 4°S, 134°E. New Guinea
		i!				44½	H= 05 58 12. Mag.6-6¼(Matsushiro)
		iPP				55½	
		i				59	
	4th.	eP^KP	Z	05	45	40½	U.S.C.G.S. 11°N, 63°W. Venezuela.
		Confused by microseisms					H= 05 26 09. h approx. = 60kms. Mag. 7¼ (Matsushiro)
		iP!	Z	16	51	28½	B.C.I.S. South of Tonga Islands.
		Dilatation to east			south		Data rather inconclusive
		i				30½	
		e				43½	
		i				47	
	5th.	Nil					
	6th.	eP	Z	21	37	09½	U.S.C.G.S. 49½°N, 155°E. North of Kurile Islands H= 21 27 51. h approx. = 60kms.
	7th.	eP	Z	07	32	15	U.S.C.G.S. 7°S, 155°E. Solomon Is.
		i!				22½	H= 07 31 14. h approx. = 150kms.
		i!				40	
		i				51½	
		i(S)			33	13	
		i!				16	
		iP!	Z	12	14	57	
		Compression					
		iS			15	28	
		i!				44	
		eP	Z	13	29	32	U.S.C.G.S. 51°N, 159°E. Kamchatka. H= 13 19 45. Mag. 6.5 (Uppsala)
	8th.	Nil					
	9th.	Nil					

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Oct. 10th.	iP	Z	04	54	18½	
	iS			55	09½	
	eP	Z	10	57	50½	
	eL			58.4	-	
	iP	Z	11	02	16	
	i				26	
	eP	Z	11	10	15½	
	i				28½	
	eL			11.8	-	
	eP	Z	13	57	29½	
	i				39½	
	i				43	
	eL			58.9	-	
	eP	Z	14	22	(18½)	B.C.I.S 3¼°S, 146°E. Off the
	i(PP)				27½	north-east coast of New Guinea
	eL			23.6	-	H= 14 20 55
	iP	Z	16	50	26	
	Dilatation					
	i				32½	
	i				42½	
11th.	Nil					
12th.	i(P)	Z	17	39	36.4	U.S.C.G.S. 14°N, 145°E. Mariana Is. H= 17 35 26. h approx = 100kms.
	eP	Z	19	04	54	U.S.C.G.S. 8°S, 111°E. Java.
	i			05	12½	H= 18 57 02. Mag.6(Matsushiro)
	i				24½	
	iPP			06	33½	
	iP!	Z	19	51	46	Felt Warangoi, Int.2(M.M.) 4°30'S, 152°20'E.
	Compression from south-south east					Felt Rabaul, Int. 2(M.M.) 4°10'S, 152°10'E.
	eP	Z	22	04	(24½)	B.C.I.S. 3°S, 146½°E. Near the
	i				42½	north coast of New Guinea
	i			05	23½	H= 22 03 02
	eL			05.8	-	
	iP	Z	22	39	(44.5)	
	i				50½	
	eL			41.5		
13th.	eP	Z	04	29	09½	U.S.C.G.S. and B.C.I.S. 52½°N, 160°E. Kamchatka. H= 04 19 17. Mag. 6½ (Matsushiro)
	eP	Z	20	42	41	U.S.C.G.S. 60°S, 151°E.
	e			43	57	Antarctic Ocean. H= 20 33 01.
	i			44	57	Mag. 6¾(Strasbourg)
	iP!	Z	23	06	16½	
	Compression					
	i!				28	
	iS!				35	
	i				43	
	i!			07	08	
	i				13	

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October 14th.	eP	Z	00	29	46	
	i				46.5	
	Deep					
	eP	Z	12	49	28	B.C.I.S. Santa Cruz Islands. H= 12 46.0m. h approx. =60kms.
15th.	iP	Z	06	04	39	U.S.C.G.S. 30°S, 179°W. Kermadec Islands. H= 05 55 21 h approx. = 150kms.
	iP	Z	14	22	10½	Felt Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	Dilatation					
	i!				12½	
	i!				16½	
	iP!	Z	23	02	00.5	Felt Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	Dilatation to west-south-west					
16th.	Nil					
17th.	eP	Z	14	28	49½	U.S.C.G.S. 31°N, 141½°E. Honshu. H= 14 21 44
18th.	iP	Z	07	41	42	U.S.C.G.S. New Britain region H= 07 41 02
	Dilatation					
	i				42½	Felt Rabaul, Int. 1(M.M.) 4°10'S, 152°10'E.
	i	Z	08	03	16	
	e	Z	17	28	(47)	
	eP	Z	19	00	46½	B.C.I.S. 2½°S, 146½°E.
	i			01	22	New Guinea, Admiralty Islands.
	i				40½	H= 18 59 15
	eL			02.3	-	
	eP	Z	19	14	29½	U.S.C.G.S. 22°S, 172°E. Loyalty Islands region. H= 19 08 53
19th.	eP	Z	15	50	46½	
	iP	Z	18	36	36.0	U.S.C.G.S. 23½°N, 122°E.
	Dilatation					Formosa. H= 18 28 50
	e			37	15½	Mag. 7 (Moscow)
	iPP			38	15	
	i				30½	
	eS			42	48½	
	i			43	00	
	iP	Z	21	50	32½	U.S.C.G.S. 44½°N, 146°E.
	e			51	01½	Hokkaido. H= 21 41 59
	e				16½	h approx. = 150kms.
						Mag. 6½-6¾(Pas.)
20th.	ePKP	Z	12	24	27	U.S.C.G.S. 11½°N, 42°W.
	iPKP			25	22½	Atlantic Ridge. H= 12 04 22
	iPKS			28	40.0	
	iP	Z	19	57	25	
	i				33½	
21st.	eP	Z	00	21	08½	U.S.C.G.S. 11°S, 167°E.
	iPP				31.4	Santa Cruz Islands H= 00 17 25
						h approx. = 100kms.
	iP	Z	10	05	18½	
	i				49½	

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October 21st. cont.	iP	Z	12	03	36.2	
22nd.	iP	Z	07	28	01.9	
	iP	Z	20	53	18.5	U.S.C.G.S. 43½°N, 146°E.
	i				31.5	Hokkaido. H= 20 44 38
	i				40	
	e(PPP)			55	53	
23rd.	i(P)	Z	12	21	20½	(U.S.C.G.S. Kermadec Islands H= 12 13 36)
	iP	Z	20	32	05½	
24th.	eP	Z	00	22	04	U.S.C.G.S. 14½°S, 168°E.
	e				55	New Hebrides Islands
	i			23	38	H= 00 17 37. Mag.6½(Pas.)
	eP	Z	03	16	31	
	e(S)			17	11	
	No records after 0800 hours					
25th.	No records.					
26th.	eP	Z	04	36	52	U.S.C.G.S. 0°, 125°E.
	i				53	Molucca Strait. H= 04 31 03
	eP	Z	08	32	05	U.S.C.G.S. 20½°S, 178°W.
	i				06	Fiji Islands. H= 08 26 12.
	e			33	27	h approx. = 600kms.
	iPcP			34	34	Mag. 6-6¼(Pas.)
	e(S)			36	45	
	eScS			41	27	
	e(P)	Z	08	41	(27)	
	eP	Z	12	58	07	
	i!				07.7	
	iS				56	
	eP	Z	14	24	06	U.S.C.G.S. 2°S, 116°E. Borneo.
	i				07	H= 14 16 57. Mag. 6.3(Uppsala)
	i				12½	
	i				35	
	i(PP)			25	22½	
	i(PPP)				43	
	e			26.1	-	
	eP	Z	16	49	32	
27th.	iP	Z	00	50	42	
	e			52	19	
	eP	Z	07	29	26	Deep
	i!				27	
	iP! Dilatation	Z	20	08	22	
	iP	Z	22	42	36	U.S.C.G.S. 56°N, 161°E.
	i			43	08	Kamchatka. H= 22 32 25
	i				47	Mag. 6½ - 6¾ (Pas.)
	iP	Z	22	59	48.9	U.S.C.G.S. 11½°S, 166½°E.
	e		(23)	02	57	Santa Cruz Islands.
	e(SS)			03	59	H= 22 56 55
	e			12	03	

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October 28th.	i(P)	Z	06	15	05½	
	eP	Z	10	12	44½	
	iS			13	07½	
	iP	Z	13	46	43½	
	Dilatation					
	iS			47	24½	
	eP	Z	14	04	52½	
	e			05	23½	
	eP	Z	15	56	(09½)	
29th.	eP	Z	00	18	57	U.S.C.G.S. 53½°N, 160°E. Kamchatka. H= 00 09 07
	eP	Z	02	28	41	U.S.C.G.S. 2°S, 116°E. Borneo. H= 02 21 30
	iP	Z	06	48	25	
	eP	Z	10	06	10	
	i(S)				19½	
	i(P)	Z	12	29	50.1	
	iP	Z	14	11	00	
	Compression					
	i!				05	
	i(S)!				10	
	iP	Z	16	15	09½	Felt Warangoi, Int. 1-2.(M.M.) 04°30'S, 152°20'E.
	Compression					
	iS				18	
	iP	Z	17	15	03	
	e(P)	Z	18	23	04	
	iP!	Z	20	02	56	Felt Pomio, Int. 3 (M.M.) 5°30'S, 151°30'E. Felt Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	Compression from south-south east.					
30th.	iP	Z	02	23	42.5	U.S.C.G.S. 53°N, 167°W. Fox Is. H= 02 13 08
	iP	Z	03	38	59½	
	iS			39	18	
	e(PKP)	Z	07	50	(40)	B.C.I.S. 35°3'N, 27°8'E. Dodecanese Islands. H= 07 30 18 Mag. 5.7(Uppsala)
	iP	Z	15	05	19	
	iS				38	
	iP	Z	15	58	09	
	Dilatation to south-south-east					
	eP	Z	17	12	05	
31st.	iP	Z	04	26	28	U.S.C.G.S. 8°S, 161°E. Solomon Islands. H= 04 24 04
	i(PP)				33.9	
	e			29	25	

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October 31st. cont.	ePKP		10	27	02	U.S.C.G.S. 6½°N, 83°W. Panama. H= 10 07 54 Mag. 7 (Tacubaya)
	eP	Z	10	30	22½	B.C.I.S. Santa Cruz Islands
	e(S)			33	01	H= 10 26 52
	eP	Z	13	33	47	
	e			36	18	
	ePKP	Z	16	43	18	U.S.C.G.S. 1½°N, 86°W. Galapagos Islands H= 16 24 17 Mag. 5.8 (Tacubaya)

The following shocks were reported felt during October 1957:

Date 1957	Reported Time G.M.T.	Intensity (Mod.Mercalli)	Locality	Lat.South °	'	Long.East °	'
Oct.1st	0713		Rabaul	04	10	152	10
	0714	1-2	Londolovit	03	05	152	40
3rd.	1230	2	Wewak	03	35	143	40
12th.	1951	1	Rabaul	04	10	152	10
	1955	2	Warangoi	04	30	152	20
15th.	1422	1	Rabaul	04	10	152	10
	2302	1	"	"	"	"	"
18th.	0741	1	Rabaul	04	10	152	10
29th.	0600	1-2	Linga Linga	05	35	149	45
	1615	1-2	Warangoi	04	30	152	20
	2000	3	Pomio	05	30	151	30
	2002	1	Rabaul	04	10	152	10

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VULCANOLOGICAL OBSERVATORY RABAUL

Seismological Bulletin. November 1957.

Nov. 1st.	i	Z	09	42	41½	
	iP	Z	18	08	27½	
	Compression					
	iS!				50	
	iP	Z	18	10	14	Aftershock of the preceding
	iS				36	
	eP	Z	19	09	54	
2nd.	iP	Z	01	11	12	
	iP	Z	05	25	27	
	i	Z	11	00	30	
	iP	Z	13	04	00	
	i(S)				36	
	iP	Z	14	55	42	Distant
	e			56	34½	
	eP	Z	16	22	40	U.S.C.G.S. 6°N? 127½°E. Mindanao H= 16 16 52. Mag. 6.1(Quetta)
	iP	Z	18	17	35	
	iS				44	
	eP	Z	18	34	29	U.S.C.G.S. 13°S, 166½°E.
	i			36	25½	New Hebrides Islands. H= 18 30 24
	e(SS)			38	01	Mag. 6.4 (Kiruna)
	i(SSS)				15½	
	i(ScP)			42	45	
	(PcS)					
	eScS			46	28	
	i(P)	Z	21	33	00	
	iP	Z	21	47	54	
	iS			48	02	
3rd.	iP	Z	10	26	23	U.S.C.G.S. 6°S, 147°E. Near the
	i(PPP)				41	north east coast of New Guinea.
	e(S)			27	45	H= 10 24 51. Mag. 5¾ (Matsushiro)
	i				50	Felt Camp Diddy, Int. 6(M.M.)
	i(SS)				56	6°30'S, 146°50'E.
	i			28	05	Felt Lae, Int. 5(M.M.)
	i				28½	6°45'S, 147°00'E.
	i			30	29	Felt Mumeng, Int. 2(M.M.)
						7°00'S, 146°35'E.
						Felt Wau, Int. 1(M.M.)
						7°20'S, 146°45'E.
	iP	Z	11	16	03	U.S.C.G.S. 6½°S, 147°E. Near the
	e(S)			17	(21)	north east coast of New Guinea
	i(SS)				35	H= 11 14 30. Mag. 5¼-5½(Matsushiro)
	i(SSS)				43	Felt Camp Diddy, Int. 7(M.M.)
	i			18	09	6°30'S, 146°50'E.
						Felt Lae, Int. 4(M.M.)
						6°45'S, 147°00'E.
						Felt Mumeng, Int. 2(M.M.)
						7°00'S, 146°35'E.
	iP	Z	15	50	20	

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3rd. cont.	iP	Z	17	54	04½	
	Dilatation					
	i(S)!				13	
	i				31	
	i				34	
	i!				40	
	i!				49½	
	e(P)	Z	18	13	41	
	e(P)	Z	19	08	(29)	
4th.	iP	Z	01	07	36½	
	i(S)				45½	
	iP	Z	01	10	29	
	i	Z	02	38	49	
	i	Z	03	40	20	
	eP	Z	10	57	46	
	i			58	13	
	e			59	26	
	iP	Z	11	03	23	
	iP	Z	13	48	13	
	i				29	
	iP	Z	21	57	22	
	iS				30	
5th.	e	Z	00	40	(58)	B.C.I.S. 14°N, 124°E. Philippine Is. H= 00 34 10
	eP	Z	09	58	12	U.S.C.G.S. 13°S, 169°E.
	i				12½	New Hebrides Islands. H= 09 54 29
	i!				18½	h approx. = 650 kms.
	i!				22	Mag. 6¼(Matsushiro)
	iS		(10)	01	10	
	e(ScS)			08	33	
	iP!	Z	11	19	28	U.S.C.G.S. 6°S, 150°E. New Britain.
	Compression					H= 11 18 43
	i!				30½	Felt Ulamona, Int. 1 (M.M.)
						5°00'S, 151°15'E.
	iP	Z	15	02	17	Dilatation
	i!				19	
	eP	Z	15	18	48	
	i				50	
	iS			19	12	
	iP	Z	15	23	14	
	iS				23	
	iP!	Z	20	44	26	
6th.	iP	Z	00	42	33	B.C.I.S. near 5°S, 154°E.
	i				36	Solomon Islands region. H=00 41.7
						Felt Karoola, Int. 3(M.M.)
						5°10'S, 154°35'E.
	e	Z	11	23	(54)	
	eP	Z	13	21	(36)	U.S.C.G.S. 45°N, 149½°E. Kurile Is. region. H= 13 12 53. Mag.6.3(Quetta)

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6th. cont.	iP	Z	15	33	27½	
	i(S)				36	
	e(P)	Z	15	46	(51)	
	iS			47	55½	
7th.	eP	Z	04	31	(51)	
	i			32	36	
	eP	Z	19	33	39	
	i				48	
	eS			34	14	
	i	Z	23	27	08	
8th.	iP	Z	02	47	16	U.S.C.G.S. 5½°S, 155°E. Solomon Is. region. H= 02 46 22. Felt Karoola, Int. 3(M.M.) 5°10'S, 154°35'E. Felt Warangoi, Int. 1-2(M.M.) 4°30'S, 152°20'E. Felt Rabaul, Int. 1(M.M.) 4°10'S, 152°10'E.
	i(P)	Z	06	23	42	B.C.I.S. 0°, 121½°E. Celebes Islands h= 06 17 33
	iP	Z	12	20	51½	
	i			21	00	
	iP	Z	17	57	10	
	i				14	
	i				21	
	eS				39	
	iP	Z	18	45	38	
9th.	iP	Z	16	50	27	
	i				45	
	iS!			51	01	
	iP	Z	19	11	21	U.S.C.G.S. Solomon Islands region.
	i!				24	H= 19 10 39. h approx. = 150 kms.
	i				26	
	i!				35½	
	e(S)!				57	
10th.	eP	Z	02	37	26	U.S.C.G.S. 7°S, 155½°E. Solomon Is.
	i!				46	H= 02 36 21 Mag. 6.5 (Quetta)
	i!				49	Felt Aropa, Int. 3(M.M.) 6°25'S, 155°50'E. Felt Buin, Int. 3(M.M.) 6°50'S, 155°45'E.
	eP	Z	03	45	03	U.S.C.G.S. 7½°S, 155½°E.
	i!				14	Solomon Islands. H= 03 43 49 Mag. 6.2 (Quetta) Felt Aropa, Int. 4(M.M.) 6°25'S, 155°50'E. Felt Buin, Int. 3(M.M.) 6°50'S, 155°45'E.
	eP	Z	04	40	27	Felt Buin, Int. 1(M.M.) 6°50'S, 155°45'E.
	i!				36½	
	i!				39½	
	iS			41	35	

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10th. cont.	eP	Z	05	50	28	U.S.C.G.S. 6½°S, 147°E. Near the
	i				37	north east coast of New Guinea.
	i!				47	H= 05 48 57 Mag. 6.5 (Quetta)
	i(S)			51	51	Felt Camp Diddy, Int. (M.M.)
	i			52	34	6°30'S, 146°50'E.
	i			53	19	Felt Lae, Int. 5 (M.M.)
						6°45'S, 147°00'E.
						Felt Mumeng, Int. 2(M.M.)
						7°00'S, 146°35'E.
						Felt Wau, Int. 2(M.M.)
						7°20'S, 146°45'E.
	eP	Z	06	07	55	Felt Buin, Int. 1(M.M.)
	i			08	02½	6°50'S, 155°45'E.
	i(S)				56	
	i!1			09	10	
	iP	Z	08	22	54	
	e(S)			23	57	
	e			24	04½	
	eP	Z	08	44	11	U.S.C.G.S. 7½°S, 156½°E. Solomon Is.
	i				18	H= 08 42 50
	i(S)			45	18	Felt Aropa, Int. 1(M.M.)
						6°25'S, 155°50'E.
	eP	Z	10	04	09	Felt Aropa, Int. 1 (M.M.)
	i				30	6°25'S, 155° 50'E.
	i(S)			05	12	
	i				24	
	i				30	
	ePKP	Z	10	40	31	U.S.C.G.S. 8°N, 74½°W. Colombia.
	e			44	03	H= 10 21 14.
	e				32	
	eP	Z	11	33	41	
	e(S)			34	41	
	i				55	
	eP	Z	14	45	46	
	i(S)			47	07	
	i				11	
	i				17	
	eP	Z	15	36	44	
	i				53	
	e(S)			37	56	
	eP	Z	15	43	42	Felt Buin, Int. 1(M.M.)
	e(S)			44	37	6°50'S, 155°45'E.
	i				43½	
	i				48½	
	i			45	03½	
	eP	Z	16	38	(15)	Felt Lae, Int. 3(M.M.)
	i(S)			39	19	6°45'S, 147°00'E.
	i				28	
	i				34	
	e			40	14	
	eP	Z	18	08	46	U.S.C.G.S. 2°S, 116°E.,Borneo.
						H= 18 01 37
	eP	Z	18	25	50	
	i			26	54	
	iS			27	01	
	eP	Z	19	27	43	U.S.C.G.S. 34°N, 139½°E. Honshu.
						H= 19 20 05. Mag. 6.6(Matsushiro)

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10th. cont.	eP	Z	19	38	27	B.C.I.S. Honshu. Aftershock. H= 19 30.5m
	eP	Z	19	49	48	
	eS			50	59	
	eP	Z	20	00	06	B.C.I.S. Honshu. Aftershock. H= 19 53 07 Mag. 5.5(Matsushiro)
	iP	Z	22	04	21½	Felt Buin, Int. 2(M.M.)
	iS				56	6°50'S, 155°45'E.
	eP	Z	22	51	21	
	e(S)			52	21	
	i				36	
	i				42	
11th.	iP	Z	01	54	29½	(Felt Lindenhafen, Int.4(M.M.)
	i				47½	6°10'S, 150°35'E.
	iS				59½	Reported as 0125 hours)
	i!			55	06½	
	iP!	Z	06	04	41	Dilatation to north-west. Deep?
	i			05	19½	
	i				30½	
	iP	Z	07	48	58½	Dilatation
	iS!			49	28½	
	i!				30½	
	i				35	
	e	Z	11	50	01	
	i(P)	Z	12	06	17	
	iP	Z	14	47	57	
	eP	Z	17	33	11½	
	i				12	
	eP	Z	18	30	02½	
	iS			31	07	
	i				28	
	i(P)	Z	22	54	27	
12th.	eP	Z	01	32	30½	U.S.C.G.S. 6°S, 149½°E. New Britain.
	i				33½	H= 01 31 40. Mag.5¾ (Matsushiro)
	i!				34	Felt Kandrian, Int. 2-3 (M.M.)
						6°15'S, 149°35'E.
						Felt Walindi, Int. 2(M.M.)
						5°25'S, 150°05'E.
	iP!	N	07	00	40½	
	eS			01	08½	
	iP	Z	15	34	51.8	
	iP	Z	15	46	30	
	i				33	
13th.	eP	Z	01	06	20½	B.C.I.S. Solomon Islands. Aftershock.
	i				39	H= 01 05.0m
	i			07	20½	
	iS!				24½	
	i!				30½	
	i!			08	02½	

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13th. cont.	iP!	Z	06	15	32½	Deep?
	i				33½	
	eS			16	10½	
	i!				23½	
	i				27	
	i				37	
	i				43½	
	iP	Z	11	39	07¼	
	i				39½	
	i			40	17½	
	eP	Z	17	30	12	U.S.C.G.S. 33°S, 179°W. Kermadec Is.
	i				13	H= 17 22 41 Mag. 6¾ (Berkeley)
	i				14	(Deep?)
	i!				16	
	i			31	04½	
	i				18½	
	i(PPP)			32	13½	
	e				35½	
	eS	E		36	07	
	e	Z			30½	
14th.	iP!	Z	01	00	51½	Felt Rabaul, Int. 1(M.M.) Dilatation 4°10'S, 152°10'E.
	eP	Z	20	55	(34)	Felt Mumeng, Int. 1(M.M.) 7°00'S, 146°35'E.
	Record confused by microseisms					
15th.	iP	Z	07	58	50½	U.S.C.G.S. 8½°N, 124°E. Mindanao. H= 07 52 25. Mag.6.3(Quetta)
	iP	Z	16	40	04½	U.S.C.G.S. 51½°N, 158°E.
	i				18	Kamchatka, H= 16 30 29.
	i				19½	Mag. 6¼(Matsushiro)
	e			41	25½	
	Record confused by microseisms					
16th.	Nil					
17th.	e(P)	Z	01	20	(23)	
	eP	Z	06	07	(40)	US.C.G.S. 49°N, 148½°E. Sea of Okhotsk. H= 05 57 48. h approx = 350kms. Mag. 7¼(Matsushiro)
	iP!	Z	06	28	21½	Felt Rabaul, Int. 1(M.M.)
	Compression from south-west. 4°10'S, 152°10'E.					
	e	Z	08	03	14	
	eP	Z	14	55	29½	
	i				40	
	iS			56	26½	
	i				48½	
18th.	i	Z	05	15	38.3	
	eP	Z	13	55	09	
	i				33½	
	eL				58.6	
	eP	Z	15	21	36	U.S.C.G.S. 44°N, 148°E. Kurile Is. H= 15 12 53
	iP	Z	16	32	50½	
	i			33	54	

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18th. cont.	eP	Z	16	42	54½	
	i			43	37½	
	i(S)				58½	
	i			44	40½	
19th.	iP	Z	00	47	16	
	iP	Z	10	40	45	
	eP	Z	11	28	23	US.C.G.S 28½°N, 140½°E.Bonin Is.H= 11 21 39
	eP	Z	16	22	25	U.S.C.G.S. 47°N, 152½°E. Kurile Is.
	i				27	H= 16 13 29. h approx.= 100kms.
	e				59	
	i			23	09½	
	i				39½	
	iP	Z	17	46	14½	Compression
	i				23½	
	iP	Z	19	31	33½	B.C.I.S probably Mindanao. Rather discordant data
	iP	Z	20	16	23½	Compression
	i			17	15	
20th.	eP	Z	12	51	(25½)	U.S.C.G.S 54°N,165°W. Unimak Is. H=12 40 23 Mag.6¾(Matsushiro)
21st.	iP	Z	05	17	00½	U.S.C.G.S.½°S,127½°E. Halmahera.H=05 11 33
	i				38½	Mag.5¾(Matsushiro)
	eP	Z	06	32	27	
	e	Z	18	02	20	U.S.C.G.S 3°S,130°E. Ceram. H= 17 57 21
22nd.	eP	Z	21	56	35½	U.S.C.G.S 1°S,127°E.Spice Is. H=21 51 04
23rd.	i(P)	Z	01	04	02½	U.S.C.G.S 52°N,172°E.Near Is. H= 00 55 00
	eP	Z	01	09	24½	U.S.C.G.S 53°N,167½°W. Fox Is. H= 00 58 36 Mag.6.7 (Quetta)
	iP	Z	01	13	27	
	iP	Z	08	23	50½	Compression
	i!				53½	
	i			24	23	
	iS!				26½	
24th.	No records					
25th.	eP	Z	00	32	(00)	U.S.C.G.S 3°N, 128°E.Halmahera.H= 00 26 32
	Onset confused by local shock					
	eP	Z	20	08	26	B.C.I.S near 3°(N), 132°E. North-west coast of New Guinea. H= 20 03.6m
	eP	Z	22	42	(14)	U.S.C.G.S 1½°S,116½°E. Borneo.H=22 35 00
	Onset confused by blasting. Mag. 6½-6¾ (Matsushiro)					
26th.	eP	Z	05	17	10	U.S.C.G.S 2°S,116°E. Borneo. H= 05 10 00
	i				52½	Mag. 6½ (Matsushiro)
	e			18	42	
	eP	Z	11	46	03	U.S.C.G.S 51½°N, 176°W. Andreanov Is. H= 11 35 44 Mag. 6.5(Quetta)
	eP	Z	12	32	(04)	
	i				09½	
	Confused by local shock					

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26th. cont.	eP	Z	19	14	28	U.S.C.G.S. 19°N, 121°E. Luzon. H= 19 07 02
27th.	iP	Z	00	08	14½	
	iS				32	
	eP	Z	03	26	(51)	B.C.I.S. 5°N, 125½°E. Mindanao. H= 03 21 04
	eP	Z	08	38	(55)	B.C.I.S. near 14°S, 167°E.
	Onset confused by local shock					New Hebrides Islands
	iPP			39	18	H= 08 34.8m
	eS			42	11	h approx. = 200kms
	e			46	40	
	eP	Z	10	03	06	
	e	Z	11	07	17	
	iP!	Z	11	51	20½	Felt Rabaul, Int. 1(M.M.)
	Dilatation to east-north-east					4°10'S, 152°10'E
	iS!				29½	
	e(PKP)	Z	14	15	49	(U.S.C.G.S 20°S, 67½°W. Bolivia. H=13 56 30)
	iP	Z	16	44	17½	
	iP	Z	19	08	35½	
	i(S)			10	(05)	
28th.	e	Z	03	28	45	
	iP	Z	07	24	02	
	eP	Z	20	54	33	U.S.C.G.S. 15°S, 168½°E.
	iPP				47½	New Hebrides Islands. H= 20 50 10
						Mag. 6¼ (Matsushiro)
29th.	iP	Z	02	29	30½	Dilatation. Deep.
	iP	Z	12	36	48	Distant? (Shock reported felt Madang, Int. 1(M.M.) 1230 hours. 5°15'S, 145°50'E.
	eP	Z	17	52	37	U.S.C.G.S. 48½°S, 124½°E. Indian Ocean. H= 17 43 38
	ePKP	Z	22	38	23	U.S.C.G.S. 21°S, 66°W. Bolivia.
	i!				43½	H= 22 19 38 h approx. = 200kms.
	i!				50½	Mag. 7¾ -8 (Pasadena)
	e			39	42	
	i(PP)			41	21½	
	e				26	
	i				47½	
	i(PKS)			42	19½	
	i			43	22½	
	i(PPP)			44	28½	
	i				59½	
	e(P)	Z	23	14	38	
	e			18.8	-	
30th.	eP	Z	03	28	05	
	eP	Z	07	16	(25)	
	e			17	25	
	iP	Z	14	29	34½	
	iS			30	02½	

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30th. cont.	e	Z	19	49	21	
	eP	Z	20	37	30	U.S.C.G.S. 49°N, 154°E. Kurile Is. H= 20 28 18.
	eP	Z	21	46	20	U.S.C.G.S. 47°N, 154½°E. Kurile Is. H= 21 37 11
	eP	Z	22	03	16	U.S.C.G.S. 47°N, 154°E. Kurile Is. H= 21 54 10 Mag. 6.2(Uppsala)

The following shocks were reported felt in the Territory, Nov. 1957:

Date	Time (G.M.T.)	Intensity (M.M.)	Locality	Lat. South °	'	Long. East °	'
2nd.	0903	2-3	Aitape	03	10	142	20
	1500	2	Karkar	04	40	146	00
3rd.	1026	6	Camp Diddy	06	30	146	50
	1026	5	Lae	06	45	147	00
	1025	2	Mumeng	07	00	146	35
	1025	1	Wau	07	20	146	45
	1055	1	Lae	06	45	147	00
	1115	7	Camp Diddy	06	30	146	50
	1115	4	Lae	06	45	147	00
	1115	1	Mumeng	07	00	146	35
	1600	1	Lae	06	45	147	00
5th.	1117	1	Ulamona	05	00	151	15
6th.	0043	3	Karoola	05	10	154	35
	1130	1-2	Linga Linga	05	35	149	45
8th.	0247	3	Karoola	05	10	154	35
	0247	1	Rabaul	04	10	152	10
	(0346)	1-2	Warangoi	04	30	152	20
10th.	0051	1-2	Warangoi	04	30	152	20
	0235	3	Aropa	06	25	155	50
	0245	3	Buin	06	50	155	45
	0345	4	Aropa	06	25	155	50
	0345	3	Buin	06	50	155	45
	0448	1	"	"	"	"	"
	0549	7	Camp Diddy	06	30	146	50
	0549	5	Lae	06	45	147	00
	0548	2	Wasu	06	00	147	15
	0554	2	Mumeng	07	00	146	35
	0550	1	Wau	07	20	146	45
	0610	1	Buin	06	50	155	45
	0650	1	Buin	"	"	"	"
	0845	1	Aropa	06	25	155	50
	1005	1	"	"	"	"	"
	1545	1	Buin	06	50	155	45
	1625	1	Buin	"	"	"	"
	1635	3	Lae	06	45	147	00
	2010	2	Buin	06	50	155	45
	2055	1	Buin	"	"	"	"
	2145	1	"	"	"	"	"
	2230	1	"	"	"	"	"
11th.	0125	4	Lindenhafen	06	10	150	35
12th.	0132	2-3	Kandrian	06	15	149	35
	0140	2	Walindi	05	25	150	05
14th.	0100	1	Rabaul	04	10	152	10
	2053	1	Mumeng	07	00	146	35
17th.	0628	1	Rabaul	04	10	152	10
	1835	2	Lae	06	45	147	00

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Shocks reported felt in the Territory, November 1957 (cont):

Date	Time (G.M.T)	Intensity (M.M.)	Locality	Lat. South °	'	Long. East °	'
24th.	0440	1	Linga Linga	05	35	149	45
	0445	2-3	Kandrian	06	15	149	35
27th.	1151	1	Rabaul	04	10	152	10
29th.	1230	1	Madang	05	15	145	50

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TERRITORY OF PAPUA AND NEW GUINEA

Vulcanological Observatory Rabaul

Seismological Bulletin - December, 1957.

Dec.	1st.	eP	Z	01	09	(30)	U.S.C.G.S. 47½°N, 153½°E. Kurile Is. H = 01 00 26 Mag. 6 (Matsushiro).
		eP	Z	01	18	05	U.S.C.G.S. 47½°N, 154°E. Kurile Is. H = 01 09 00 Mag. 6-6¼ (Matsushiro).
		e(P)	Z	08	54	02	B.C.I.S. near 3°N, 120°E. Celebes Sea. H = 08 48.2 m.
		eP	Z	14	31	55	B.C.I.S. Mindanao. Rather discordant data.
	2nd.	iP	Z	02	31	36½	Compression.
		i!				38	
		iS!			32	02	
		iP	Z	11	41	20	
		i!				22½	
		i				34½	
		i				42	
		iS!				45½	
		iP!	Z	15	17	36½	Deep. Compression from East South East.
		iS!			18	26½	
		i				34½	
		i				45½	
		i				53½	
	3rd.	iP	Z	10	27	17	
		i				21	
		eP	Z	15	21	(54)	
		i			22	06	
		iP	Z	21	03	00½	
	4th.	The records for 4/12/57 are not available for study.					
		iP	Z	00	32	50½	U.S.C.G.S. 0° , 125°E.
		i			34	22½	Molucca Strait. H = 00 27 01.
		eP	Z	03	48	43½	B.C.I.S. 45¼°N, 99°4E.
		i				51½	Outer Mongolia.
		i(PS)			58	03	H = 03 37 44
		i				53½	Mag. 8.6 (Pas.)
		i		04	03	44½	
		eL			08.0	-	
		eP'P'			17	12½	
		iP	Z	09	20	20½	U.S.C.G.S. 45½°N, 99°E. Outer Mongolia. After shock. H = 09 09 10.

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Dec. 4th. cont..	eP	Z	11	30	25½	U.S.C.G.S. 45½°N, 100½°E. Outer Mongolia. Aftershock. H = 11 19 30.
	eP	Z	13	31	02	U.S.C.G.S. 45°N, 101½°E. Outer Mongolia. H = 13 20 08. Mag. 6.5 (Uppsala).
	iP	Z	19	45	06½	Compression. Felt: Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	eP	Z	22	27	57½	U.S.C.G.S. 45°N, 99½°E. Outer Mongolia. H = 22 16 59.
5th.	e	Z	01	07	56	
	eP	Z	08	52	45½	
	i				52½	
	eP	Z	09	03	18½	
	i				19½	
	i				33½	
	e(P)	Z	18	00	30½	
	i				34	
	i				55½	
	iS			01	13½	
	eP	Z	18	20	32	U.S.C.G.S. 45°N, 100°E. Outer Mongolia. H = 18 09 32 Mag. 5¼-5½ (Matsushiro).
6th.	eP	Z	00	44	49½	
	e	Z	03	58	20	(U.S.C.G.S. 45°N, 150½°E. Kurile Is. H = 03 49 33 h approx. = 60 kms.)
	eP	Z	08	45	(10)	U.S.C.G.S. 44½°N, 150½°E. Kurile Is. H = 08 36 21 Mag. 6.6 (Quetta),
	iP	Z	12	21	27½	Felt: Awelkon, Int. 2 (M.M.)
	i				35½	5°40'S, 147°50'E.
	e	Z	17	45	(55)	
7th.	iP	Z	03	22	02	U.S.C.G.S. 6½°S, 123½°E. Flores Sea. H = 03 16 43 h approx. = 550 kms. Mag. 6¼-6½ (Matsushiro).
	iP	Z	07	57	46	
	i(S)				54½	
	iP	Z	09	48	40	
	iP!	Z	13	20	11	
	i!				31½	
	iS				59	
	i			21	11	

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Dec. 7th. cont..	eP	Z	14	22	03	U.S.C.G.S. 43½°N, 100°E.
	i				18	Outer Mongolia.
						H = 14 11 15
						Mag. 5¼-5½ (Matsushiro).
	e	Z	15	02	59½	
	eP	Z	15	46	30	B.C.I.S. New Britain region.
	i				50	H = 15 45.4 m.
	i	Z	16	16	47	
	e	Z	17	06	03	
	e	Z	17	57	49	
8th.	eP	Z	01	38	46	U.S.C.G.S. 13°S, 167°E.
						New Hebrides Is.
						H = 01 34 40.
	eP	Z	06	23	57	U.S.C.G.S. 45°N, 100½°E.
						Outer Mongolia.
						H = 06 13 02.
	e(P)	Z	12	24	08	U.S.C.G.S. 35°N, 142°E.
						Honshu.
						H = 12 16 30
						Mag. 5.5 (Matsushiro).
	iP	Z	13	58	43	
	i				52	
	e(P)	Z	14	49	06	U.S.C.G.S. 34½°N, 142°E.
						Honshu.
						H = 14 41 34.
	e(P)	Z	15	40	18	U.S.C.G.S. 45°N, 99°E.
						Outer Mongolia.
						H = 15 29 15
						Mag. 5 (Ulan Bator).
	iP	Z	16	37	09	U.S.C.G.S. 45°N, 104°E.
						Outer Mongolia.
						H = 16 26 33
						Mag. 5.5 (Ulan Bator).
	iP	Z	17	12	42	
	i				44	
	i!				46½	
	i!				50	
	iS!			13	07	
	eP	Z	17	57	06	
	i			58	11	
	eP	Z	21	39	42	U.S.C.G.S. 44½°N, 100°E.
						Outer Mongolia.
						H = 21 28 45.
9th.	eP	Z	01	23	21	U.S.C.G.S. 18°N, 122½°E.
						Luzon.
						H = 01 16 09.
	iP	Z	02	45	04	
	eP	Z	08	55	53	
	iS			56	16½	

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Dec. 9th. cont..	eP	Z	12	01	03	(Felt: Awelkon, Int. 3 (M.M.)
	i				10½	5°40'S, 147°50'E)
	eP	Z	15	53	(50)	
	e	Z	16	48	38	
10th.	eP	Z	14	36	58½	U.S.C.G.S. 6°S, 154½°E.
	i!			37	02	Solomon Is. H = 14 35 57.
	iS! Omori				57	Mag. 7 (Matsushiro).
						Felt: Arona, Int. 3 (M.M.) 6°25'S, 155°50'E.
						Felt: Buin, Int. 3 (M.M.) 6°50'S, 155°45'E.
						Felt: Rabaul, Int. 2 (M.M.) 4°10'S, 152°10'E.
	eP	Z	14	57	(32)	Felt: Karoola, Int. 2 (M.M.)
	i				35	5°10'S, 154°35'E.
	e(S)			58	21	
	i!			59	44½	
	eP	Z	15	53	58	U.S.C.G.S. 5½°S, 155°E.
	i!			54	06	Solomon Is. H = 15 53 02.
	iS!				50	Felt: Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	iP	Z	16	42	54	(?Felt: Karoola, Int. 2 (M.M.)
	iS!			43	40	5°10'S, 154°35'E.)
	e			45	36	
	eP	Z	17	24	29	
	eP	Z	17	31	47	
	i			32	08	
	iS				35½	
	eP	Z	18	08	(42)	Felt: Buin, Int. 2 (M.M.)
	iS			09	(43)	6°50'S, 155°45'E.
	eP	Z	18	30	48	Felt: Buin, Int. 1 (M.M.)
	iS			31	02	6°50'S, 155°45'E.
	eP	Z	19	20	18	(Felt: Buin, Int. 1 (M.M.)
	i				23	6°50'S, 155°45'E.)
	iS!			21	10	
	i!				20	
	i!				29	
	eP	Z	21	10	27	
	iS			11	26	
	eP	Z	21	20	23	
	eP	Z	22	26	54	
	iS			27	48	
11th.	eP	Z	00	35	14	
	eS				56	
	eP	Z	01	11	07	
	eS			12	03	
	eP	Z	02	48	37	Felt: Karoola, Int. 2 (M.M.)
	e(S)			49	35	5°10'S, 154°35'E.
	i(S)!			50	16½	Felt: Buin, Int. 1 (M.M.)
						6°50'S, 155°45'E.

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Dec. 11th. cont..	eP	Z	03	02	31	Felt: Buin, Int. 1 (M.M.)
	eS			03	18	6°50'S, 155°45'E.
	eP	Z	03	29	41	U.S.C.G.S. 6½°S, 155°E.
	i				50	Solomon Is.
	iS			30	40	H = 03 28 44.
	e	Z	10	11	30	
	eL			13.8	-	
	eP	Z	13	24	08	
	i				09	
	i				17½	
	eP	Z	14	16	01	
	i				12½	
	eP	Z	14	42	(35)	
	eS			43	(31)	
	eP	Z	14	57	08	
	i				13½	
	i				34	
	eP	Z	15	01	16½	
	i				22	
	iS			02	08	
	e(P)	Z	18	18	10	U.S.C.G.S. 30½°N, 142°E. Honshu. H = 18 11 07 Mag 5.6 (Matsushiro).
	eP	Z	20	59	(06)	
	i				12	
	eS				55	
	eP	Z	22	43	40	
	eS			44	35	
12th.	eP	Z	09	22	40	
	eS			23	33	
	iP	Z	16	45	27½	
	i				35½	
	eP	Z	18	42	24	U.S.C.G.S. 13½°S, 167°E.
	e			43	26	New Hebrides Is.
	i			44	15	H = 18 38 19
	e				23	Mag. 6 (Matsushiro).
	eP	Z	19	05	55	Felt: Karoola, Int. 1 (M.M.)
	i			06	29½	5°10'S, 154°35'E.
	iS				55	
	eP	Z	19	15	(12)	
	eP	Z	19	22	46	
	eS			23	35	
	eP	Z	21	08	30	(Felt: Karoola, Int. 1 (M.M.)
	i				34	5°10'S, 154°35'E).
	iS				59½	
	eP	Z	22	19	45	
	iS			20	38	

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Dec. 13th.	iPKP	Z	01	51	05	U.S.C.G.S. 7°N, 76°W.
	i				21½	Colombia.
	ePKS			54	27	H = 01 31 57
	e				33	h approx. = 100 kms.
	e			56	35	Mag. 6¾ (Pas.)
	e(PcSPKP)			02	32	
	ePP	Z	02	03	25	B.C.I.S. 34°6N, 47°8E.
	e			04	56	Iran.
	e			15	14	H = 01 44 59
	e			19	10	Mag. 7¼ (Pas.)
	eP	Z	02	28	36½	U.S.C.G.S. 6°S, 155½°E.
	i				47	Solomon Is.
	iS			29	30½	H = 02 27 45
	iP	Z	02	33	32½	
	i				41	
	iS			34	23½	
	i!				27½	
	e(P)	Z	03	08	(22)	(See Madang readings).
	e			09	23	
	e(P)	Z	06	45	(51)	
	eP	Z	13	02	(00)	
	eS				(53)	
	iP	Z	13	29	56½	
	i!				57	
	iS!			30	08	
	eP	Z	20	05	00	U.S.C.G.S. 6½°S, 155½°E.
	eS				55½	Solomon Is. H = 20 03 58.
	i!				58½	Felt: Karoola, Int. 2 (M.M.)
						5°10'S, 154°35'E.
	eP	Z	20	37	00	U.S.C.G.S. 52½°N, 170°W.
	e			40	29	Fox Is. H = 20 26 22.
						Mag. 6½ (Matsushiro).
	eP	Z	22	09	45	
	eS			10	(37)	
14th.	e	Z	05	41	(31)	
	eP	Z	08	41	37	
	i(S)			42	34	
	i(P)	Z	16	58	26	(See Madang readings).
	e(P)	Z	19	27	(34)	
	e			29	06	
	e			30	27	
	iP	Z	19	42	09.5	
	iS!				35.5	
	e(P)	Z	21	25	(55)	
	i			26	01½	
	i(P)	Z	21	26	55	
	i(P)	Z	21	28	07	(See Madang readings).

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Dec. 15th.	e	Z	00	30.5	-	
	eP	Z	01	50	16	Dilatation.
	i!				16½	
	eP	Z	07	24	00	
	e	Z	08	56	-	
	i			58	53	
	iP	Z	10	06	52½	
	iS			07	02	
	iP!	Z	11	14	14½	Dilatation. Felt: Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	iP	Z	11	19	35½	
	i(S)				54	
	e			20	08	
	eP	Z	12	29	27	
	i!				31	
	eS				53½	
	e(P)	Z	15	27	20	
	eP	Z	17	22	14	Dilatation.
	eP	Z	17	42	24	
	iP	Z	18	20	55	
	i			21	04	
	eS				07	
	iP	Z	20	33	39	Deep. Small.
	i(S)				56	
16th.	eP	Z	04	50	10	
	e(S)				(50)	
	eP	Z	08	43	42	
	eP	Z	12	13	(35)	
	eP	Z	12	31	06	
	eS			32	(05)	
	eP	Z	13	37	11	
	iS			38	03	
	eP	Z	14	20	00	
	iS				49	
	e(P)	Z	15	10	21	
	e(P)	Z	17	40	32	
	eP	Z	18	49	48	
	eS			50	38	
	e(PKP)	Z	19	22	02	(B.C.I.S. 28¾°S, 66°W. Argentina. H = 19 02 49)
	i	Z	22	09	13	

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Dec. 17th.	iP!	Z	00	58	26	Dilatation. Felt: Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
	eP	Z	04	16	31	Dilatation. Felt: Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E
	i!				31½	
	eP	Z	05	20	05	U.S.C.G.S. 53½°N, 162°E. Kamchatka. H = 05 10 11. Mag. 6.8 (Quetta).
	ePPP			23	44	
	iP	Z	07	15	43½	
	iS				52½	
	iP	Z	08	31	10½	
	iP	Z	13	54	05½	U.S.C.G.S. 12½°S, 166½°E. Santa Cruz Is. H = 13 50 12. Mag. 7¾ (Pas.)
	i!				13½	
	iS			57	07½	
	i				(14)	
	i				19½	
	i!				24	
	e(ScS)		14	06.1	-	
	e	Z	14	29	(21)	
	e	Z	14	38	06	
	e	Z	14	42	08	
	eP	Z	15	12	(24)	
	iS			13	(09½)	
	eP	Z	17	14	18	
	iS				27½	
	e	Z	17	17.5	-	
18th.	e(PKP)	Z	02	31	(12)	(U.S.C.G.S. 11°N, 63½°W. Venezuela. H = 02 11 40).
	iP	Z	19	40	39½	
	i				48½	
	eP	Z	20	44	(45)	
	eS			45	(29)	
	iP!	Z	21	06	19	Dilatation to E.N.E.
	iS!				31½	
19th.	eP	Z	01	13	11	
	i				17½	
	eS			14	02	
	i!				18	
	eP	Z	05	25	37	
	i				43	
	iS!			26	27½	
	eP	Z	10	11	(30)	
	i				33	
	iS			12	18	
	i				37	
	iP	Z	11	30	50	
	i			31	00	

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Dec. 19th. cont..	iP	Z	14	36	03	
	i				11	
	eS				(31)	
	iP	Z	15	04	59	Deep.
	e(S)			05	57	
	eP	Z	19	08	13	U.S.C.G.S. 30½°N, 142°E. Honshu. H = 19 01 08.
	eP	Z	20	32	(42)	
	eP	Z	22	09	27	
	iS!			10	03½	
	eP	Z	22	54	43	
	i				45	
	i				52½	
	iP	Z	23	17	06	Dilatation.
	iS				26½	Felt: Rabaul, Int. 1 (M.M.) 4°10'S, 152°10'E.
20th.	e	Z	10	09	55	
	eP	Z	12	17	44	
	eS			18	39½	
	i!				44	
	eP	Z	14	59	15½	
	i				16	
	eP	Z	17	11	49	
	eP	Z	18	14	06	
	i				13	
	i				54½	
	eP	Z	18	20	17	
	eP	Z	18	26	09	
	e			27	12	
	e				22	
	iP	Z	22	51	01	
	i				10	
21st.	No records.					
22nd.	iP	Z	13	15	05½	
	i				11	
	iS				21½	
	i				26	
	eP	Z	14	14	13	
	i(S)				25½	
	iP	Z	18	25	48½	
	iS				55½	
	iP	Z	19	21	22½	
	iS				27½	
	iP	Z	19	29	39½	
	i				42½	
	iS				43½	

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Dec. 22nd. cont..	iP	Z	19	35	40½	
	iS				43½	
	iP!	Z	19	36	10½	Compression.
	iS!				15½	
	eP	Z	19	40	55½	
	iS			41	01	
23rd.	e	Z	01	43	09	
	eP	Z	02	51	25	
	iS				55	
	i	Z	03	53	22	
	eP	Z	04	44	55	Deep?
	i!				57	
	eS			45	26	
	eP	Z	05	03	(36)	
	ePKP	Z	12	53	51	B.C.I.S. 35¾°N, 35°W. Atlantic Ridge. H = 12 34 06. Mag. 6-6¼ (Matsushiro).
	e(P)	Z	19	36	20	B.C.I.S. Luzon. H = 19 29.4 m.
	e(P)	Z	19	39	48	
24th.	iP	Z	00	58	19	
	iP	Z	02	55	29	Compression. Deep?
	iS				37	
	iP	Z	06	45	09	Dilatation. Deep.
	iP	Z	21	54	40	
	iS			55	00	
25th.	iP	Z	01	02	08	
	i				17	
	iP	Z	01	58	21½	Dilatation. Deep.
	iS!				45	
	eP	Z	02	19	14	U.S.C.G.S. 53½°N, 162°E. Kamchatka. H = 02 09 20. Mag. 6 (Matsushiro).
	iP	Z	03	10	04½	
	i				13	
	iS				18	
	iP	Z	06	44	26½	
	i				38	
	i(S)				40½	
	iP	Z	13	52	14½	U.S.C.G.S. 55°N, 161°E. Kamchatka. H = 13 42 12.
	ePKP	Z	16	45	37½	U.S.C.G.S. 10½°N, 62½°W.
	i				40½	Venezuela.
	i			46	08½	H = 16 26 01.
	i				38½	Mag. 6¼ (Matsushiro).
	i				58½	

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Dec. 25th. cont..	iP	Z	17	41	59½	
	i!			42	05	
	e(S)				(18)	
26th.	iP	Z	07	57	39	Dilatation.
	i(S)				48	
	i				58	
	eP	Z	12	16	42	U.S.C.G.S. 32½°S, 178°W.
	i				44	Kermadec Is.
	i!				48	H = 12 09 11
	i!				49	Mag. 5¾ (Matsushiro).
	i!			17	11	
	e			33	24	
	iP	Z	17	28	05	
	i				14	
	iP	Z	19	30	04½	Dilatation.
	iS!				23	
27th.	e	Z	02	11	37	
	iP!	Z	10	54	37	Compression from S.S.E.
	e	Z	12	16	40	
	iP	Z	15	05	54	Dilatation.
	i			06	03	
	i				15	
	i				29	
	eP	Z	15	10	41	U.S.C.G.S. 53½°N, 162°E. Kamchatka. H = 15 00 45.
	e(P)	Z	15	47	05	
	i				13½	
	iP	Z	16	14	03	
	iS				27	
	e(P)	Z	16	29	29	
	iP	Z	16	52	35	
	i				45	
	i				49	
	i				58	
	iP!	Z	18	16	51	Dilatation to S.W.
	iS!			17	11½	
	eP	Z	21	18	43	Felt: Awelkon, Int. 2 (M.M.)
	i			19	45	5°40'S, 147°50'E.
	i				54	
28th.	eP	Z	02	08	47	B.C.I.S. 11°S, 163°E. Solomon Is. H = 02 05 43.
	i(P)	Z	04	47	01	
	e	Z	13	36	(32)	
	ePKP	Z	14	56	12	U.S.C.G.S. 18°S, 64½°W. Bolivia. H = 14 36 40. Mag. 6 (Kew).
	eP	Z	19	08	35	U.S.C.G.S. 16°S, 172°W.
	e			10	38	Tonga Is.
	e(S)			14	16	H = 19 01 22.

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Dec. 29th.	eP	Z	00	16	56	
	i				59½	
	eS			17	(30)	
	i!				33	
	eP	Z	02	29	18	
	iS				35	
	iP	Z	06	01	52	Dilatation.
	i(S)			02	01	
	iP!	Z	09	32	16½	Compression.
	i(S)				(24)	
	eP	Z	14	16	02	U.S.C.G.S. 13°N, 144°E. Mariana Is. H = 14 11 40.
30th.	iP	Z	10	39	01	Compression.
	iS				10	
	ePKP	Z	13	48	31	U.S.C.G.S. 10½°N, 62°W. Venezuela. H = 13 28 51.
	iP	Z	14	05	56	Compression. U.S.C.G.S. 19°N, 120½°E. Luzon. H = 13 58 26. Mag. 5½-5¾ (Matsushiro).
	iP!	Z	23	41	10	Compression from N.N.E.
	iS				20	
31st.	iP	Z	03	29	00	
	i				07½	
	e(P)	Z	12	17	33	
	iP	Z	14	36	14	Compression.
	eS			42	35	U.S.C.G.S. 45°S, 165½°E. New Zealand. H = 14 28 15. Mag. 6.6 (Wellington).
	iP	Z	17	08	56	Compression.
	i			09	04½	
	iP	Z	17	49	54½	
	i			50	04½	
	eP	Z	21	26	35	U.S.C.G.S. 45°S, 96½°E. Indian Ocean. H = 21 16 03.
	eP	Z	22	04	33	
	eP	Z	22	38	21½	
	i				30	
	iS				52½	
	iP	Z	22	40	50½	
	i			41	00½	
	iS				05½	

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TERRITORY OF PAPUA AND NEW GUINEA

The following earthquakes were reported felt in the Territory during December 1957.

Date	Time (G.M.T.)	Intensity (Modified Mercalli)	Locality	Lat. South °	'	Long. East °	'
Dec. 2nd	2244	1-2	Lae	06	45	147	00
	2245	1	Awelkon	05	40	147	50
Dec. 4th	1945	1	Rabaul	04	10	152	10
Dec. 5th	2116	1	Awelkon	05	40	147	50
Dec. 6th	0340	2	Karkar	04	40	146	00
	1221	2	Awelkon	05	40	147	50
Dec. 7th	1320	1	Rabaul	04	10	152	10
Dec. 9th	(1200)	3	Awelkon	05	40	147	50
Dec. 10th	(0245)	(2-3)	(Warangoi)	04	30	152	20
	1435	3	Aropa	06	25	155	50
	1437	2	Rabaul	04	10	152	10
	1443	3	Buin	06	50	155	45
	1445	2	Karoola	05	10	154	35
	1553	1	Rabaul	04	10	152	10
	(1645	2	Karoola)	05	10	154	35
	(1810)	2	Buin	06	50	155	45
	1830	1	Buin	06	50	155	45
	(1912)	1	Buin	06	50	155	45
Dec. 11th	(0223)	1	Buin	06	50	155	45
	?	2	Karoola	05	10	154	35
	0303	1	Buin	06	50	155	45
Dec. 12th	1905	1	Karoola	05	10	154	35
	(2045)	1	Karoola	05	10	154	35
Dec. 13th	2005	2	Karoola	05	10	154	35
Dec. 15th	1114	1	Rabaul	04	10	152	10
Dec. 17th	0058	1	Rabaul	04	10	152	10
	0417	1	Rabaul	04	10	152	10
Dec. 18th	1114	2	Awelkon	05	40	147	50
Dec. 19th	2317	1	Rabaul	04	10	152	10

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Date	Time (G.M.T.)	Intensity (Modified Mercalli)	Locality	Lat. South ° '	Long. East ° '
Dec. 21st	0000	2	Vanimo	02 40	141 20
Dec. 22nd	0330	1	Vanimo	02 40	141 20
	0745	4	Vanimo	02 40	141 20
Dec. 27th	2118	2	Awelkon	05 40	147 50

Since the records for 28th September 1957 and 4th December 1957 have now been returned to the Observatory, the following additions and corrections should be made to the readings already listed.

28th September 1957

Additional Phase	e(ScS)	00	43	20	U.S.C.G.S. 30½°N, 137½°E. Honshu. H = 00 27 31. h approx = 500 kms. Mag. 6¾ (Pas.)
	iP	Z 06	40	28½	
	i			34	
	i			40½	
	i(S)!			59	
Additional Phases	i		14	26 17½	U.S.C.G.S. 20½°S, 178°W.
	iS			30 17	Fiji Is. H = 14 20 00.
	e			53½	h approx = 650 kms.
	eSS			34 28	Mag. 7½ (Pas.)
	i			35 25	
Additional Phase	e		15	07 58	U.S.C.G.S. 20½°S, 178½°W. Fiji Is. H = 14 44 02. Aftershock. h approx = 600 kms.

4th December 1957

Additional Phases	i(PcP)	00	36	09	U.S.C.G.S. 0°, 125°E.
	eS		37	25½	Molucca Strait. H = 00 27 01.
Additional Phase	i(SS)	04	02	32	B.C.I.S. 45¼°N, 99°4 E. Outer Mongolia. H = 03 37 44. Mag. 8.6 (Pas.)
	iP	Z 04	39	50½	
	eP	Z 04	45	40	
	e(P)	Z 08	04	09	B.C.I.S. Outer Mongolia. Aftershock. H = 07 53 05.
	iP	Z 09	40	44½	
	i			53½	
	i		41	02½	
	iP	Z 15	47	19	Dilatation. Local.
	iS			38	
	i!			40	
	eP	Z 23	52	58	U.S.C.G.S. 45°N, 99°E. Outer Mongolia. Aftershock. H = 23 41 57. Mag. 5(Ulan Bator).

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J.H. Latter
Vulcanologist

20th November, 1961.

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MADANG

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TERRITORY OF PAPUA AND NEW GUINEA

Vulcanological Observatory Rabaul

JULY — DEC 1957

No. 968

SUPPLEMENTARY READINGS FROM MADANG 1957-58

Addition	(05°14'S	145°48'E)			Recorded on Vertical Willmore Seismograph.
July 3rd.	(eP	06	09	12½)	U.S.C.G.S. 24°S, 180°.
	(i			13½)	Fiji Is.
					H = 06 02 37
					h approx. = 550 kms.
July 4th.	(iP	02	34	11½)	
	(iS			33)	
	iP	15	17	31	
	eS			59½	
	e	15	56	14	B.C.I.S. Solomon Islands region.
					H = 15 53.8 m.
July 5th.	e	17	34	02½	
	e			17½	
	i		36	09	
July 7th.	eP	16	13	51.8	U.S.C.G.S. 6½°S, 156°E.
					Solomon Is.
					H = 16 11 15
					Mag. 6¾ (Pas.)
July 8th.	iP	05	27	22	
	iS			56	
July 9th.	(iP	00	58	22)	
	(iS			49½)	
	(iP	03	39	40½)	
	(iS		40	59½)	
	(e	10	05	56)	U.S.C.G.S. 6°S, 104°E.
					Sumatra.
					H = 09 58 09
					h approx. = 60 kms.
					Mag. 6½ (Matsushiro)
July 12th.	eP	20	55	34½	Foreshock.
	iP	20	57	15½	U.S.C.G.S. 3°S, 148½°E.
	i			43½	Bismarck Sea.
	eL	21	01.3	-	H = 20 56 18
					Mag. 6¼ (Matsushiro)
	iP	21	59	40	U.S.C.G.S. 3°S, 148½°E.
	i			43½	Bismarck Sea. Aftershock.
	i			54	H = 21 58 45
	i	(22)	00	08	Mag. 6 (Matsushiro)
	i		01	00½	
	eL		04.6	-	
July 14th.	eP	06	31	33	U.S.C.G.S. 27°S, 178°W.
	i			24	Kermadec Is. region.
	i		32	12½	H = 06 23 52
					h approx. = 150 kms.
					Mag. 7½ (Rome)

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July 14th. cont..	iP	08	18	42	U.S.C.G.S. 30°S, 177°W.
	i			43	Kermadec Is.
					H = 08 10 45
					Mag. 7 (Berk.)
	i(P)	09	50	19	U.S.C.G.S. 20°S, 174½°W.
					Tonga Is.
					H = 09 42 27
					Mag. 6½ (Matsushiro)
July 15th.	iP	14	13	38½	
	iS		14	08½	
	iP	20	33	38	
	eS			45	
July 16th.	iP	03	41	53½	
	iS		42	22½	
	iP	04	22	52½	
	iS			59½	
	iP	10	05	16½	
	iS			36½	
July 17th.	iP	08	05	53½	
	iS		06	05½	
	eP	11	15	02½	U.S.C.G.S. 11°S, 167°E.
	i			04½	Santa Cruz Is.
					H = 11 10 10
					h = 100 kms.
					Mag. 6½ (Berk.)
	e	12	28	21½	U.S.C.G.S. 2°S, 137°E.
	i		29	05	H = 12 26 06
	e(P)	12	30	03½	
	iP	15	17	53½	
	iS		18	03.7	
	i(P)	21	20	09	
	(iS		21	20)	
July 18th.	iP!	11	11	08½	U.S.C.G.S. 5°S, 146°E. Near
	i		13	04	the N. coast of New Guinea.
	i			20½	H = 11 10 58
					Felt: Karkar, Kumbug and Madang
					(see Rabaul Bulletin)
	iP!	11	18	57	
	iS		19	02½	
	iP	11	28	46	
	iS			52	
	iP	12	05	44	
	iP	12	58	28½	
	iP	13	23	17	
	iS			23	
	iP	13	38	48	
	iS			54	
	iP	14	02	05½	

International Seismological Centre From the ISC collection scanned by SISMOS

July 19th.	iP	20	27	12	U.S.C.G.S. 3°S, 142°E. North of New Guinea. Foreshock. H = 20 26 03 Felt: (see Rabaul Bulletin)
	i			44	
	i		28	21	
	i			58	
	iP	21	37	54½	U.S.C.G.S. 3½°S, 142°E. North of New Guinea. H = 21 36 46 Felt: (see Rabaul Bulletin)
	i!		38	04	
	i			12	
	i!			53½	
	i		39	30½	
July 21st.	iP	00	23	56	
	eP	07	03	06	U.S.C.G.S. 4½°S, 153°E. New Ireland. H = 07 00 10 Mag. 5¾-6 (Matsushiro) Felt: (see Rabaul Bulletin)
	iP	08	13	45	
	i(S)		14	13½	
	eP	18	33	29	
	i		34	09	
July 22nd.	iP	01	04	50½	
	iS			59	
	iP	06	25	02	U.S.C.G.S. 33½°S, 178°W. Kermadec Is. region. H = 06 16 52 Mag. 6¼-6½ (Matsushiro)
	i			11½	
	i			19	
	eP	06	30	00½	U.S.C.G.S. 34°S, 177½°W. Kermadec Is. region. H = 06 21 50. Aftershock.
	i			08½	
	i			17	
July 23rd.	iP	05	38	06	
	iS			19	
	e	13	36	55½	U.S.C.G.S. Kermadec Is. region. H = 13 30 17 h approx. = 600 kms.
July 24th.	i(P)	02	07	50½	
	eP	05	53	38	
	e	10	48	07	
	eP	18	09	22	
	i(S)			45	
	i		10	07	
July 25th.	eP	14	11	17	Felt: Lae (see Rabaul Bulletin)
	i			36	
	e(S)			40	
	i		14	02	
July 26th.	eP	03	55	06	
	i			06.8	
	e	05	12	(28)	
	e	07	04	50	
	iP	17	37	35	
	iS		38	03	

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July 27th.	eP	18	44	29	U.S.C.G.S. $6\frac{1}{2}^{o}$S, $151\frac{1}{2}^{o}$E.
	i		45	10	New Britain region.
	i			15	H = 18 43 01
	iP	20	31	29	
	iS			47	
Aug. 4th.	eP	00	39	$43\frac{1}{2}$	U.S.C.G.S. $3\frac{1}{2}^{o}$S, 145°E. Near
	i			44	the N. coast of New Guinea.
	i(S)		40	$07\frac{1}{2}$	H = 00 39 12
	i			$43\frac{1}{2}$	Mag. $6\frac{1}{2}$-$6\frac{3}{4}$ (Matsushiro)
					Felt: (see Rabaul Bulletin)
Aug. 14th.	iP	14	(10	48)	
	i		(11	$04\frac{1}{2}$)	
	i			(13)	
	i			(21)	
	Times doubtful.				
	iP	15	(27	24)	
	eS			(53)	
	Times doubtful.				
Aug. 15th.	iP	03	38	18	
	i(S)			24	
	iP	20	47	35	U.S.C.G.S. $4\frac{1}{2}^{o}$S, 155°E.
	i(pP)		48	$00\frac{1}{2}$	Solomon Is. region.
	e(sP)			17	H = 20 45 20
	e(pPP)			46	h approx. = 500 kms.
	i(S)		49	$24\frac{1}{2}$	
Aug. 16th.	iP	00	18	$06\frac{1}{2}$	
	eS			$17\frac{1}{2}$	
	eP	03	28	16	U.S.C.G.S. 5°S, 154°E.
					New Britain region.
					H = 03 26 05
					Felt: (see Rabaul Bulletin)
	iP	05	37	49.9	
	i(S)		38	07.5	
	eP	11	59	$26\frac{1}{2}$	U.S.C.G.S. 5°S, 155°E.
					Solomon Is.
					H = 11 57 16
					Felt: (see Rabaul Bulletin)
Aug. 17th.	eP	02	23	38	U.S.C.G.S. 4°S, 151°E.
					New Britain.
					H = 02 21 47
					Felt: (see Rabaul Bulletin)
Aug. 18th.	eP	00	(12 or 13)	$25\frac{1}{2}$	
	iS			$54\frac{1}{2}$	
	iP	02	21	07.7	
	iS			23	
	iP	11	02	$55\frac{1}{2}$	
	i			57	
	e(S)		03	24	
	e	21	52	$12\frac{1}{2}$	U.S.C.G.S. 50°N, 157°E.
					N. of Kurile Is.
					H = 21 42 30
					Mag. 6.6 (Tacubaya)

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Aug. 19th.	eP	00	12	57.3	U.S.C.G.S. 4½°S, 153°E.
	i		13	10.5	New Britain region.
					H = 00 11 13
					Felt: (see Rabaul Bulletin)
	e	02	43	27½	U.S.C.G.S. New Britain region.
					H = 02 41 14
					Felt: (see Rabaul Bulletin)
	e	11	38	33½	U.S.C.G.S. 10°S, 161°E.
					Solomon Is.
					H = 11 34 36
					Mag. 6½ (Pas.)
	iP	11	54	32½	
	eS		55	12½	
Aug. 20th.	iP	00	30	10½	
	iS			48½	
	e	06	31	00	U.S.C.G.S. 10°S, 161°E.
					Solomon Is. Foreshock
					H = 06 27 07
					Mag. 6¾ (Matsushiro)
	e	12	05	44½	U.S.C.G.S. 10°S, 161°E.
					Solomon Is.
					H = 12 01 54
					Mag. 6¾ (Matsushiro)
	e	21	23	37	
	i			56½	
	i		24	05½	
Aug. 21st.	iP	04	(33	55)	
	i			(57)	
	iS		(34	23½)	
	iP	10	(21	43)	
	Times doubtful.				
Sept. 21st.	e	14	(39	20)	
	e	14	(56	20)	
	iP	17	(26	33½)	
	iS			(55)	
	Times uncertain.				
Sept. 24th.	eP	08	26	04½	U.S.C.G.S. 5½°N, 127½°E.
	i			16	Mindanao.
					H = 08 21 05
					Mag. 7¾ (Pas.)
	iP	20	11	40½	
	iS			49½	
	eP	23	26	34	
	i			34½	
	eS		27	20	
	i			28½	
	iP	23	47	52½	
	iS		48	04	
Sept. 25th.	eP	02	(19	36)	
				(42)	
	Times uncertain.				

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Sept. 25th. cont..	e(P)	06	(58	36)	B.C.I.S. Discordant data.
	e		(59	32)	(Several shocks)
	e			(18)	
	iP	09	(39	57)	B.C.I.S. New Hanover region.
	i			(59½)	H = 09 38.9 m.
	eL		(43	-)	
	iP	14	(09	56)	B.C.I.S. 2°S, 140°E. Near
	i		(12	59½)	the N. Coast of New Guinea.
					H = 14 08.0 m.
	e	16	(41	32½)	(U.S.C.G.S. Nr. the S.E. Coast of Mindanao.
					H = 16 36 37
					Mag. 6 (Uppsala))
	Times uncertain.				
Sept. 26th.	e	18	51	44½	U.S.C.G.S. 6°N, 126½°E. Mindanao.
					H = 18 46 41
					Mag. 6.0 (Uppsala)
	iP	19	05	47½	
	e(S)		06	30½	
	iP	20	28	12½	
	eS			39½	
Sept. 27th.	eL	04	(07	50)	Probably Moluccas. Times inaccurate.
	eL	04	(18	12)	" " " "
	e	05	(56	16)	" " " "
	iP	14	(50	50½)	
	iS		(51	15½)	
	iP	17	(23	40.3)	
	iS			(49½)	
	Times uncertain.				
Sept. 28th.	e	04	(14	00)	U.S.C.G.S. 3°S, 135½°E. Near the N. Coast of New Guinea.
					H = 04 11 23
	iP	12	(54	13½)	
	eS			(49½)	
	eP	14	(26	32)	U.S.C.G.S. 20½°S, 178°W.
	i!			(32½)	Fiji Is.
	i		(28	36)	H = 14 20 00
	i		(31	48)	h. approx. = 650 kms.
					Mag. 7.6 (Uppsala)
	e(P)	14	(50	36)	U.S.C.G.S. 20½°S, 178½°W.
					Fiji Is. Aftershock.
					H = 14 44 02
					h approx. = 600 kms.
	iP	17	(35	48½)	
	iS			(54½)	
	Times uncertain.				
Sept. 29th.	iP	00	14	15	
	iP	03	56	48	
	iS			59	

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Sept. 29th. cont..	eP	06	42	22	U.S.C.G.S. 0° , 124°E. Celebes. H = 06 37 33 h approx. = 200 kms.
	eP	08	19	50	U.S.C.G.S. 25°S, 178½°E. S. of Fiji Is. H = 08 13 22 h approx. = 600 kms. Mag. 6¼ (Berk.)
	i!			50½	
	i		20	02	
	e		24	50	
	e			59½	
Sept. 30th.	iP	07	29	56	
	iS		30	47	
	iP	15	09	45½	
	iS		10	08	
	iP	22	44	25½	
Oct. 10th.	eP	10	57	10	
	eP	11	01	30	
	eP	11	09	33½	
	i			47	
	eP	11	43	16	
	iP	13	56	47	
	iP	14	21	36	B.C.I.S. 3¼°S, 146°E. Near the N.E. Coast of New Guinea. H = 14 20 55
	eL		24.7	-	
	iP!	16	49	17½	Times uncertain.
Oct. 12th.	iP	22	15	58½	
	iP	22	38	50	Times uncertain.
Oct. 13th.	iP	12	20	09	
	eS			36	
Oct. 14th.	eP	00	29	07½	
	i			11	
	eS			37½	
	iP	04	05	24	
	iS			34	
Oct. 16th.	iP	22	23	32½	
	iP	22	29	39	
Oct. 17th.	iP	00	50	08	
	eP	15	17	34½	
Oct. 18th.	iP	18	59	59	B.C.I.S. 2½°S, 146½°E. Nr. the N.E. Coast of New Guinea. H = 18 59 15
Oct. 19th.	iP	18	36	05½	U.S.C.G.S. 23½°N, 122°E. Formosa. H = 18 28 50 Mag. 7 (Moscow)

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Oct. 19th. cont..	iP	19	51	02½	
	iP	21	31	52	
Oct. 20th.	iP	01	42	39	
Oct. 21st.	iP	02	36	01	
	iS			20	
Oct. 23rd.	iP	15	20	17	
	iS			37	
Oct. 24th.	iP	00	22	57	U.S.C.G.S. 14½°S, 168°E. New Hebrides Is. H = 00 17 37. Mag. 6½ (Pas.)
	eP	09	14	08	(U.S.C.G.S. 20½°S, 179°W. Fiji Is. H = 09 07 30. h approx. = 550 kms.)
	i			09½	
	iP	14	24	35½	
	i(S)			47	
	iP	22	43	58	
	i(S)		44	10	
	i			39	
Oct. 25th.	iP	14	49	11	
Oct. 26th.	iP	01	08	50	
	i(S)		09	21	
	iP	03	46	21½	
	iP	08	32	48	U.S.C.G.S. 20½°S, 178°W. Fiji Is. H = 08 26 12. h approx. = 600 kms. Mag. 6-6¼ (Pas.)
Oct. 27th.	eP	00	51	03½	
	iP	07	28	39½	
	i(S)		29	04½	
	i			50	
	iP	22	12	12	
	iS		13	07	
Oct. 28th.	iP	13	58	25½	
	iS			50	
	eP	17	14	58	
Nov. 2nd.	eP approx.	18	45	-	U.S.C.G.S. 13°S, 166½°E. New Hebrides Is. H = 18 30 24. Mag. 6.4 (Kiruna)
	Times very uncertain.				
Nov. 3rd.	iP approx.	07	13	-	
	iP approx.	07	34	-	
	S-P approx. = 12 seconds				
	iP approx.	08	32	-	
	S-P approx. = 13 seconds				

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Nov. 3rd. cont..	eP approx.	10	27 -	U.S.C.G.S. 6°S, 147°E. Near the N.E. coast of New Guinea. H = 10 24 51. Mag. 5¾ (Matsushiro). Felt: (See Rabaul Bulletin).
	i!		P+5½ secs	
	iS!		P+34½secs	
	eP approx.	11	17 -	U.S.C.G.S. 6½°S, 147°E. Near the N.E. coast of New Guinea. H = 11 14 30 Mag. 5¼-5½ (Matsushiro). Felt: (See Rabaul Bulletin).
	i!		P+5 secs	
	iS!		P+34secs	
	eP approx.	15	52 -	
	i(S)		P+about 30 secs	
	Times very uncertain.			
Nov. 5th.	iP	11	17 42½	
	i		46½	
	i(S)		18 12½	
	iP	11	22 53½	U.S.C.G.S. 6°S, 150°E. New Britain. H = 11 18 43 Felt: (See Rabaul Bulletin).
	i		57½	
	i(S)		23 26	
	iP	18	19 01½	
	i		06	
	i(S)		32	
Nov. 10th.	eP approx.	02	42 -	U.S.C.G.S. 7°S, 155½°E. Solomon Is. H = 02 36 21. Mag. 6.5 (Quetta). Felt: (See Rabaul Bulletin).
	eP approx.	03	50 -	U.S.C.G.S. 7½°S, 155½°E. Solomon Is. H = 03 43 49. Mag. 6.2 (Quetta). Felt: (See Rabaul Bulletin).
	eP approx.	05	53 -	U.S.C.G.S. 6½°S, 147°E.
	i		P+ 2 secs	
	i		P+ 4 secs	
	iS		P+33 secs	
	iP approx.	11	24 -	
	iS		P+ 7 secs	
	iP approx.	12	29 -	
	iS		P+25 secs	
	iP approx.	16	41 -	
	iP approx.	19	36 -	
	Times very uncertain.			
Nov. 11th.	eP approx.	19	30 -	
	Times very uncertain.			
Nov. 12th.	iP approx.	01	04 -	
	i		P+10 secs	
	iS		P+19 secs	
	eP approx.	01	38 -	(U.S.C.G.S. 6°S, 149½°E. New Britain. H = 01 31 40. Mag. 5¾ (Matsushiro). Felt: (See Rabaul Bulletin)).

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1957.

Nov. 12th. cont..	e	approx.	09	10	-	
	e	approx.	10	08	-	
	iP	approx.	11	19	-	
	eP	approx.	18	01	-	
	eP	approx.	18	08	-	
	eP	approx.	19	03	-	
Nov. 14th.	iP	approx.	20	27	-	
	iP	approx.	20	54	-	
Nov. 15th.	iP	approx.	08	37	-	
	eS				P+30 secs	
Nov. 16th.	eP	approx.	05	17	-	
Nov. 18th.	eP	approx.	05	11	-	
Nov. 19th.	eP	approx.	06	46	-	
	eP	approx.	17	49	-	
Nov. 21st.	e	approx.	05	11	-	
	iP	approx.	18	03	-	
Nov. 22nd.	iP	approx.	00	50	-	
	eS				P+30 secs	
	iP	approx.	23	30	-	
	iS!				P+19 secs	
Nov. 23rd.	iP	approx.	14	08	-	
Nov. 28th.	iP		12	34	12	
	iS				(17)	
Nov. 29th.	eP		22	38	42	U.S.C.G.S. 21°S, 66°W.
	e			41	44	S. of Bolivia.
						H = 22 19 38
						h approx. = 200 kms.
						Mag. 7¾-8 (Pas.)
Nov. 30th.	iP		03	27	19½	
	iS				48	
	(eP		07	16	26)	
	iP		15	07	34½	
	iS				48½	
Dec. 2nd.	e(P)		15	18	21	
	e(P)		17	41	05	
	e			42	14	
	iP		22	37	17	
	e(S)				41	
Dec. 3rd.	e(P)		18	05	03	

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Dec. 4th.	eP	00	31	54	U.S.C.G.S. 0°, 125°E. Molucca Strait. H = 00 27 01
	eP	03	48	(06)	B.C.I.S. 45¼°N, 99°4 E. Outer Mongolia. H = 03 37 44 Mag. 8.6 (Pas.)
	e			33	
	eL	04	(11.0)-		
	e(P'P')		17	44	
Dec. 5th.	iP	00	27	51½	
	iS		28	02	
	iP	08	52	12½	
	eP	09	02	31	
	i			31½	
	iS			53	
Dec. 6th.	eP	12	20	59	
	i		21	09	
	i			29	
Dec. 7th.	e(P)	13	21	19	
	iP	15	01	33	
	iS			42½	
	eP	15	46	34½	B.C.I.S. New Britain region. H = 15 45.4m.
	i		47	17	
Dec. 8th.	eP	17	56	35	
Dec. 9th.	eP	12	00	26½	
	eP	19	00	23	
	e(S)			52	
Dec. 10th.	eP	10	37	03	
	eS			34	
	e(P)	14	38	18	U.S.C.G.S. 6°S, 154½°E. Solomon Is. H = 14 35 57 Mag. 7 (Matsushiro). Felt: (See Rabaul Bulletin).
	i			23	
	eL		42	-	
	e(P)	15	55	21	U.S.C.G.S. 5½°S, 155°E. Solomon Is. Aftershock. H = 15 53 02 Felt: (See Rabaul Bulletin).
	eP	16	16	35	
Dec. 11th.	eP	08	52	(13)	
	eP	10	10	23	
	i			44	
	i		11	16	
Dec. 12th.	iP	03	31	35	
	iS			52	
	eP	09	54	43	(U.S.C.G.S. 14½°S, 167½°E. New Hebrides Is. H = 09 47 02).
	eP	18	42	25	U.S.C.G.S. 13½°S, 167°E. New Hebrides Is. H = 18 38 19 Mag. 6 (Matsushiro).

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Dec. 13th.	e(P)	03	07	(20)	
	e			(27½)	
	i			36	
	eP	04	00	(17)	
	e	12	11	(20)	
	e(P)	20	06	(24)	U.S.C.G.S. 6½°S, 155½°E. Solomon Is. H = 20 03 58
Dec. 14th.	iP	06	10	30	
	eP	06	40	(07)	
	eP	12	08	29	
	eS			57	
	iP	15	50	07	
	iS			13	
	iP	16	56	27	
	iS			33	
	iP	18	25	36	
	iS		26	04	
	iP	21	28	53	
	eS		29	03	
Dec. 17th.	eP	13	55	01½	U.S.C.G.S. 12½°S, 166½°E. Santa Cruz Is. H = 13 50 12. h approx. = 100 kms. Mag. 7¾ (Pas.)
	i			06½	
	i		56	15½	
	i			38½	
Dec. 19th.	eP	00	28	27½	
Dec. 20th.	eiP	16	11	35	
	e(S)			50	
	iP	21	02	33½	
	iS			38½	
Dec. 22nd.	e(P)	07	45	29	
	e(P)	14	05	36	
	e(S)		06	08	
	eP	17	13	25½	
	eS			49	
Dec. 24th.	iP	06	44	29	
	eS			41	

1958.

Jan. 4th.	eP	13	09	00	U.S.C.G.S. 6°S, 133°E. Banda Sea. H = 13 05 24
	e		11	50	
	e		12	17	
	eP	18	02	(18)	

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TERRITORY OF PAPUA AND NEW GUINEA

Vulcanological Observatory Rabaul

SUPPLEMENTARY READINGS FROM MADANG 1957-58

Addition (05°14'S 145°48'E) Recorded on Vertical Willmore Seismograph.

July 3rd.	(eP	06	09	12½)	U.S.C.G.S. 24°S, 180°. Fiji Is. H = 06 02 37 h approx. = 550 kms.
	(i			13½)	
July 4th.	(iP	02	34	11½)	
	(iS			33)	
	iP	15	17	31	
	eS			59½	
	e	15	56	14	B.C.I.S. Solomon Islands region. H = 15 53.8 m.
July 5th.	e	17	34	02½	
	e			17½	
	i		36	09	
July 7th.	eP	16	13	51.8	U.S.C.G.S. 6½°S, 156°E. Solomon Is. H = 16 11 15 Mag. 6¾ (Pas.)
July 8th.	iP	05	27	22	
	iS			56	
July 9th.	(iP	00	58	22)	
	(iS			49½)	
	(iP	03	39	40½)	
	(iS		40	59½)	
	(e	10	05	56)	U.S.C.G.S. 6°S, 104°E. Sumatra. H = 09 58 09 h approx. = 60 kms. Mag. 6½ (Matsushiro)
July 12th.	eP	20	55	34½	Foreshock.
	iP	20	57	15½	U.S.C.G.S. 3°S, 148½°E. Bismarck Sea. H = 20 56 18 Mag. 6¼ (Matsushiro)
	i			43½	
	eL	21	01.3	-	
	iP	21	59	40	U.S.C.G.S. 3°S, 148½°E. Bismarck Sea. Aftershock. H = 21 58 45 Mag. 6 (Matsushiro)
	i			43½	
	i			54	
	i	(22)	00	08	
	i		01	00½	
	eL		04.6	-	
July 14th.	eP	06	31	33	U.S.C.G.S. 27°S, 178°W. Kermadec Is. region. H = 06 23 52 h approx. = 150 kms. Mag. 7½ (Rome)
	i			24	
	i		32	12½	

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July 14th. cont..	iP	08	18	42	U.S.C.G.S. 30°S, 177°W.
	i			43	Kermadec Is.
					H = 08 10 45
					Mag. 7 (Berk.)
	i(P)	09	50	19	U.S.C.G.S. 20°S, 174½°W.
					Tonga Is.
					H = 09 42 27
					Mag. 6½ (Matsushiro)
July 15th.	iP	14	13	38½	
	iS		14	08½	
	iP	20	33	38	
	eS			45	
July 16th.	iP	03	41	53½	
	iS		42	22½	
	iP	04	22	52½	
	iS			59½	
	iP	10	05	16½	
	iS			36½	
July 17th.	iP	08	05	53½	
	iS		06	05½	
	eP	11	15	02½	U.S.C.G.S. 11°S, 167°E.
	i			04½	Santa Cruz Is.
					H = 11 10 10
					h = 100 kms.
					Mag. 6½ (Berk.)
	e	12	28	21½	U.S.C.G.S. 2°S, 137°E.
	i		29	05	H = 12 26 06
	e(P)	12	30	03½	
	iP	15	17	53½	
	iS		18	03.7	
	i(P)	21	20	09	
	(iS		21	20)	
July 18th.	iP!	11	11	08½	U.S.C.G.S. 5°S, 146°E. Near
	i		13	04	the N. coast of New Guinea.
	i			20½	H = 11 10 58
					Felt: Karkar, Kumbug and Madang
					(see Rabaul Bulletin)
	iP!	11	18	57	
	iS		19	02½	
	iP	11	28	46	
	iS			52	
	iP	12	05	44	
	iP	12	58	28½	
	iP	13	23	17	
	iS			23	
	iP	13	38	48	
	iS			54	
	iP	14	02	05½	

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July 19th.	iP	20	27	12	U.S.C.G.S. 3°S, 142°E. North of New Guinea. Foreshock. H = 20 26 03 Felt: (see Rabaul Bulletin)
	i			44	
	i		28	21	
	i			58	
	iP	21	37	54½	U.S.C.G.S. 3½°S, 142°E. North of New Guinea. H = 21 36 46 Felt: (see Rabaul Bulletin)
	i!		38	04	
	i			12	
	i!			53½	
	i		39	30½	
July 21st.	iP	00	23	56	
	eP	07	03	06	U.S.C.G.S. 4½°S, 153°E. New Ireland. H = 07 00 10 Mag. 5¾-6 (Matsushiro) Felt: (see Rabaul Bulletin)
	iP	08	13	45	
	i(S)		14	13½	
	eP	18	33	29	
	i		34	09	
July 22nd.	iP	01	04	50½	
	iS			59	
	iP	06	25	02	U.S.C.G.S. 33½°S, 178°W. Kermadec Is. region. H = 06 16 52 Mag. 6¼-6½ (Matsushiro)
	i			11½	
	i			19	
	eP	06	30	00½	U.S.C.G.S. 34°S, 177½°W. Kermadec Is. region. H = 06 21 50. Aftershock.
	i			08½	
	i			17	
July 23rd.	iP	05	38	06	
	iS			19	
	e	13	36	55½	U.S.C.G.S. Kermadec Is. region. H = 13 30 17 h approx. = 600 kms.
July 24th.	i(P)	02	07	50½	
	eP	05	53	38	
	e	10	48	07	
	eP	18	09	22	
	i(S)			45	
	i		10	07	
July 25th.	eP	14	11	17	Felt: Lae (see Rabaul Bulletin)
	i			36	
	e(S)			40	
	i		14	02	
July 26th.	eP	03	55	06	
	i			06.8	
	e	05	12	(28)	
	e	07	04	50	
	iP	17	37	35	
	iS		38	03	

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July 27th.	eP	18	44	29	U.S.C.G.S. $6\frac{1}{2}^{\circ}$S, $151\frac{1}{2}^{\circ}$E.
	i		45	10	New Britain region.
	i			15	H = 18 43 01
	iP	20	31	29	
	iS			47	
Aug. 4th.	eP	00	39	$43\frac{1}{2}$	U.S.C.G.S. $3\frac{1}{2}^{\circ}$S, 145°E. Near
	i			44	the N. coast of New Guinea.
	i(S)		40	$07\frac{1}{2}$	H = 00 39 12
	i			$43\frac{1}{2}$	Mag. $6\frac{1}{2}$-$6\frac{3}{4}$ (Matsushiro)
					Felt: (see Rabaul Bulletin)
Aug. 14th.	iP	14	(10	48)	
	i		(11	$04\frac{1}{2}$)	
	i			(13)	
	i			(21)	
	Times doubtful.				
	iP	15	(27	24)	
	eS			(53)	
	Times doubtful.				
Aug. 15th.	iP	03	38	18	
	i(S)			24	
	iP	20	47	35	U.S.C.G.S. $4\frac{1}{2}^{\circ}$S, 155°E.
	i(pP)		48	$00\frac{1}{2}$	Solomon Is. region.
	e(sP)			17	H = 20 45 20
	e(pPP)			46	h approx. = 500 kms.
	i(S)		49	$24\frac{1}{2}$	
Aug. 16th.	iP	00	18	$06\frac{1}{2}$	
	eS			$17\frac{1}{2}$	
	eP	03	28	16	U.S.C.G.S. 5°S, 154°E.
					New Britain region.
					H = 03 26 05
					Felt: (see Rabaul Bulletin)
	iP	05	37	49.9	
	i(S)		38	07.5	
	eP	11	59	$26\frac{1}{2}$	U.S.C.G.S. 5°S, 155°E.
					Solomon Is.
					H = 11 57 16
					Felt: (see Rabaul Bulletin)
Aug. 17th.	eP	02	23	38	U.S.C.G.S. 4°S, 151°E.
					New Britain.
					H = 02 21 47
					Felt: (see Rabaul Bulletin)
Aug. 18th.	eP	00	(12 or 13)	$25\frac{1}{2}$	
	iS			$54\frac{1}{2}$	
	iP	02	21	07.7	
	iS			23	
	iP	11	02	$55\frac{1}{2}$	
	i			57	
	e(S)		03	24	
	e	21	52	$12\frac{1}{2}$	U.S.C.G.S. 50°N, 157°E.
					N. of Kurile Is.
					H = 21 42 30
					Mag. 6.6 (Tacubaya)

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Aug. 19th.	eP	00	12	57.3	U.S.C.G.S. $4\frac{1}{2}^{\circ}$S, 153°E.
	i		13	10.5	New Britain region.
					H = 00 11 13
					Felt: (see Rabaul Bulletin)
	e	02	43	$27\frac{1}{2}$	U.S.C.G.S. New Britain region.
					H = 02 41 14
					Felt: (see Rabaul Bulletin)
	e	11	38	$33\frac{1}{2}$	U.S.C.G.S. 10°S, 161°E.
					Solomon Is.
					H = 11 34 36
					Mag. $6\frac{1}{2}$ (Pas.)
	iP	11	54	$32\frac{1}{2}$	
	eS		55	$12\frac{1}{2}$	
Aug. 20th.	iP	00	30	$10\frac{1}{2}$	
	iS			$48\frac{1}{2}$	
	e	06	31	00	U.S.C.G.S. 10°S, 161°E.
					Solomon Is. Foreshock
					H = 06 27 07
					Mag. $6\frac{3}{4}$ (Matsushiro)
	e	12	05	$44\frac{1}{2}$	U.S.C.G.S. 10°S, 161°E.
					Solomon Is.
					H = 12 01 54
					Mag. $6\frac{3}{4}$ (Matsushiro)
	e	21	23	37	
	i			$56\frac{1}{2}$	
	i		24	$05\frac{1}{2}$	
Aug. 21st.	iP	04	(33	55)	
	i			(57)	
	iS		(34	$23\frac{1}{2}$)	
	iP	10	(21	43)	
	Times doubtful.				
Sept. 21st.	e	14	(39	20)	
	e	14	(56	20)	
	iP	17	(26	$33\frac{1}{2}$)	
	iS			(55)	
	Times uncertain.				
Sept. 24th.	eP	08	26	$04\frac{1}{2}$	U.S.C.G.S. $5\frac{1}{2}^{\circ}$N, $127\frac{1}{2}^{\circ}$E.
	i			16	Mindanao.
					H = 08 21 05
					Mag. $7\frac{3}{4}$ (Pas.)
	iP	20	11	$40\frac{1}{2}$	
	iS			$49\frac{1}{2}$	
	eP	23	26	34	
	i			$34\frac{1}{2}$	
	eS		27	20	
	i			$28\frac{1}{2}$	
	iP	23	47	$52\frac{1}{2}$	
	iS		48	04	
Sept. 25th.	eP	02	(19	36)	
				(42)	
	Times uncertain.				

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Sept. 25th. cont..	e(P)	06	(58	36)	B.C.I.S. Discordant data.
	e		(59	32)	(Several shocks)
	e			(18)	
	iP	09	(39	57)	B.C.I.S. New Hanover region.
	i			(59½)	H = 09 38.9 m.
	eL		(43	-)	
	iP	14	(09	56)	B.C.I.S. 2°S, 140°E. Near
	i		(12	59½)	the N. Coast of New Guinea.
					H = 14 08.0 m.
	e	16	(41	32½)	(U.S.C.G.S. Nr. the S.E. Coast of Mindanao.
					H = 16 36 37
					Mag. 6 (Uppsala))
	Times uncertain.				
Sept. 26th.	e	18	51	44½	U.S.C.G.S. 6°N, 126½°E. Mindanao.
					H = 18 46 41
					Mag. 6.0 (Uppsala)
	iP	19	05	47½	
	e(S)		06	30½	
	iP	20	28	12½	
	eS			39½	
Sept. 27th.	eL	04	(07	50)	Probably Moluccas. Times inaccurate.
	eL	04	(18	12)	" " " "
	e	05	(56	16)	" " " "
	iP	14	(50	50½)	
	iS		(51	15½)	
	iP	17	(23	40.3)	
	iS			(49½)	
	Times uncertain.				
Sept. 28th.	e	04	(14	00)	U.S.C.G.S. 3°S, 135½°E. Near the N. Coast of New Guinea.
					H = 04 11 23
	iP	12	(54	13½)	
	eS			(49½)	
	eP	14	(26	32)	U.S.C.G.S. 20½°S, 178°W.
	i!			(32½)	Fiji Is.
	i		(28	36)	H = 14 20 00
	i		(31	48)	h. approx. = 650 kms.
					Mag. 7.6 (Uppsala)
	e(P)	14	(50	36)	U.S.C.G.S. 20½°S, 178½°W.
					Fiji Is. Aftershock.
					H = 14 44 02
					h approx. = 600 kms.
	iP	17	(35	48½)	
	iS			(54½)	
	Times uncertain.				
Sept. 29th.	iP	00	14	15	
	iP	03	56	48	
	iS			59	

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Sept. 29th. cont..	eP	06	42	22	U.S.C.G.S. 0° , 124°E. Celebes. H = 06 37 33 h approx. = 200 kms.
	eP	08	19	50	U.S.C.G.S. 25°S, 178½°E. S. of Fiji Is. H = 08 13 22 h approx. = 600 kms. Mag. 6¼ (Berk.)
	i!			50½	
	i		20	02	
	e		24	50	
	e			59½	
Sept. 30th.	iP	07	29	56	
	iS		30	47	
	iP	15	09	45½	
	iS		10	08	
	iP	22	44	25½	
Oct. 10th.	eP	10	57	10	
	eP	11	01	30	
	eP	11	09	33½	
	i			47	
	eP	11	43	16	
	iP	13	56	47	
	iP	14	21	36	B.C.I.S. 3¼°S, 146°E. Near the N.E. Coast of New Guinea. H = 14 20 55
	eL		24.7	-	
	iP!	16	49	17½	Times uncertain.
Oct. 12th.	iP	22	15	58½	
	iP	22	38	50	Times uncertain.
Oct. 13th.	iP	12	20	09	
	eS			36	
Oct. 14th.	eP	00	29	07½	
	i			11	
	eS			37½	
	iP	04	05	24	
	iS			34	
Oct. 16th.	iP	22	23	32½	
	iP	22	29	39	
Oct. 17th.	iP	00	50	08	
	eP	15	17	34½	
Oct. 18th.	iP	18	59	59	B.C.I.S. 2½°S, 146½°E. Nr. the N.E. Coast of New Guinea. H = 18 59 15
Oct. 19th.	iP	18	36	05½	U.S.C.G.S. 23½°N, 122°E. Formosa. H = 18 28 50 Mag. 7 (Moscow)

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Oct. 19th. cont..	iP	19	51	02½	
	iP	21	31	52	
Oct. 20th.	iP	01	42	39	
Oct. 21st.	iP	02	36	01	
	iS			20	
Oct. 23rd.	iP	15	20	17	
	iS			37	
Oct. 24th.	iP	00	22	57	U.S.C.G.S. 14½°S, 168°E. New Hebrides Is. H = 00 17 37. Mag. 6½ (Pas.)
	eP	09	14	08	(U.S.C.G.S. 20½°S, 179°W.
	i			09½	Fiji Is. H = 09 07 30. h approx. = 550 kms.)
	iP	14	24	35½	
	i(S)			47	
	iP	22	43	58	
	i(S)		44	10	
	i			39	
Oct. 25th.	iP	14	49	11	
Oct. 26th.	iP	01	08	50	
	i(S)		09	21	
	iP	03	46	21½	
	iP	08	32	48	U.S.C.G.S. 20½°S, 178°W. Fiji Is. H = 08 26 12. h approx. = 600 kms. Mag. 6-6¼ (Pas.)
Oct. 27th.	eP	00	51	03½	
	iP	07	28	39½	
	i(S)		29	04½	
	i			50	
	iP	22	12	12	
	iS		13	07	
Oct. 28th.	iP	13	58	25½	
	iS			50	
	eP	17	14	58	
Nov. 2nd.	ePapprox.	18	45	-	U.S.C.G.S. 13°S, 166½°E. New Hebrides Is. H = 18 30 24. Mag. 6.4 (Kiruna)
	Times very uncertain.				
Nov. 3rd.	iPapprox.	07	13	-	
	iPapprox.	07	34	-	
	S-P approx. = 12 seconds				
	iPapprox.	08	32	-	
	S-P approx. = 13 seconds				

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Nov. 3rd. cont..	eP approx.	10	27	-	U.S.C.G.S. 6°S, 147°E. Near the N.E. coast of New Guinea. H = 10 24 51. Mag. 5¾ (Matsushiro). Felt: (See Rabaul Bulletin).
	i!			P+5½ secs	
	iS!			P+34½secs	
	eP approx.	11	17	-	U.S.C.G.S. 6½°S, 147°E. Near the N.E. coast of New Guinea. H = 11 14 30 Mag. 5¼-5½ (Matsushiro). Felt (See Rabaul Bulletin).
	i!			P+5 secs	
	iS!			P+34secs	
	eP approx.	15	52	-	
	i(S)			P+about 30 secs	
	Times very uncertain.				
Nov. 5th.	iP	11	17	42½	
	i			46½	
	i(S)		18	12½	
	iP	11	22	53½	U.S.C.G.S. 6°S, 150°E. New Britain. H = 11 18 43 Felt: (See Rabaul Bulletin).
	i			57½	
	i(S)		23	26	
	iP	18	19	01½	
	i			06	
	i(S)			32	
Nov. 10th.	eP approx.	02	42	-	U.S.C.G.S. 7°S, 155½°E. Solomon Is. H = 02 36 21. Mag. 6.5 (Quetta). Felt: (See Rabaul Bulletin).
	eP approx.	03	50	-	U.S.C.G.S. 7½°S, 155½°E. Solomon Is. H = 03 43 49. Mag. 6.2 (Quetta). Felt: (See Rabaul Bulletin).
	eP approx.	05	53	-	U.S.C.G.S. 6½°S, 147°E.
	i			P+ 2 secs	
	i			P+ 4 secs	
	iS			P+33 secs	
	iP approx.	11	24	-	
	iS			P+ 7 secs	
	iP approx.	12	29	-	
	iS			P+25 secs	
	iP approx.	16	41	-	
	iP approx.	19	36	-	
	Times very uncertain.				
Nov. 11th.	eP approx.	19	30	-	
	Times very uncertain.				
Nov. 12th.	iP approx.	01	04	-	
	i			P+10 secs	
	iS			P+19 secs	
	eP approx.	01	38	-	(U.S.C.G.S. 6°S, 149½°E. New Britain. H = 01 31 40. Mag. 5¾ (Matsushiro). Felt: (See Rabaul Bulletin)).

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Nov. 12th. cont..	e	approx.	09	10	-
	e	approx.	10	08	-
	iP	approx.	11	19	-
	eP	approx.	18	01	-
	eP	approx.	18	08	-
	eP	approx.	19	03	-
Nov. 14th.	iP	approx.	20	27	-
	iP	approx.	20	54	-
Nov. 15th.	iP	approx.	08	37	-
	eS				P+30 secs
Nov. 16th.	eP	approx.	05	17	-
Nov. 18th.	eP	approx.	05	11	-
Nov. 19th.	eP	approx.	06	46	-
	eP	approx.	17	49	-
Nov. 21st.	e	approx.	05	11	-
	iP	approx.	18	03	-
Nov. 22nd.	iP	approx.	00	50	-
	eS				P+30 secs
	iP	approx.	23	30	-
	iS!				P+19 secs
Nov. 23rd.	iP	approx.	14	08	-

Nov. 28th.	iP		12	34	12
	iS				(17)
Nov. 29th.	eP		22	38	42
	e			41	44

U.S.C.G.S. 21°S, 66°W.
S. of Bolivia.
H = 22 19 38
h approx. = 200 kms.
Mag. 7¾-8 (Pas.)

Nov. 30th.	iP		03	27	19½
	iS				48
	(eP		07	16	26)
	iP		15	07	34½
	iS				48½
Dec. 2nd.	e(P)		15	18	21
	e(P)		17	41	05
	e			42	14
	iP		22	37	17
	e(S)				41
Dec. 3rd.	e(P)		18	05	03

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Dec. 4th.	eP	00	31	54	U.S.C.G.S. 0°, 125°E. Molucca Strait. H = 00 27 01
	eP	03	48	(06)	B.C.I.S. 45¼°N, 99°4 E. Outer Mongolia. H = 03 37 44 Mag. 8.6 (Pas.)
	e			33	
	eL	04	(11.0)-		
	e(P'P')		17	44	
Dec. 5th.	iP	00	27	51½	
	iS		28	02	
	iP	08	52	12½	
	eP	09	02	31	
	i			31½	
	iS			53	
Dec. 6th.	eP	12	20	59	
	i		21	09	
	i			29	
Dec. 7th.	e(P)	13	21	19	
	iP	15	01	33	
	iS			42½	
	eP	15	46	34½	B.C.I.S. New Britain region. H = 15 45.4m.
	i		47	17	
Dec. 8th.	eP	17	56	35	
Dec. 9th.	eP	12	00	26½	
	eP	19	00	23	
	e(S)			52	
Dec. 10th.	eP	10	37	03	
	eS			34	
	e(P)	14	38	18	U.S.C.G.S. 6°S, 154½°E. Solomon Is. H = 14 35 57 Mag. 7 (Matsushiro). Felt: (See Rabaul Bulletin).
	i			23	
	eL		42	-	
	e(P)	15	55	21	U.S.C.G.S. 5½°S, 155°E. Solomon Is. Aftershock. H = 15 53 02 Felt: (See Rabaul Bulletin).
	eP	16	16	35	
Dec. 11th.	eP	08	52	(13)	
	eP	10	10	23	
	i			44	
	i		11	16	
Dec. 12th.	iP	03	31	35	
	iS			52	
	eP	09	54	43	(U.S.C.G.S. 14½°S, 167½°E. New Hebrides Is. H = 09 47 02).
	eP	18	42	25	U.S.C.G.S. 13½°S, 167°E. New Hebrides Is. H = 18 38 19 Mag. 6 (Matsushiro).

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Dec. 13th.	e(P)	03	07	(20)	
	e			(27½)	
	i			36	
	eP	04	00	(17)	
	e	12	11	(20)	
	e(P)	20	06	(24)	U.S.C.G.S. 6½°S, 155½°E. Solomon Is. H = 20 03 58
Dec. 14th.	iP	06	10	30	
	eP	06	40	(07)	
	eP	12	08	29	
	eS			57	
	iP	15	50	07	
	iS			13	
	iP	16	56	27	
	iS			33	
	iP	18	25	36	
	iS		26	04	
	iP	21	28	53	
	eS		29	03	
Dec. 17th.	eP	13	55	01½	U.S.C.G.S. 12½°S, 166½°E. Santa Cruz Is. H = 13 50 12. h approx. = 100 kms. Mag. 7¾ (Pas.)
	i			06½	
	i		56	15½	
	i			38½	
Dec. 19th.	eP	00	28	27½	
Dec. 20th.	eiP	16	11	35	
	e(S)			50	
	iP	21	02	33½	
	iS			38½	
Dec. 22nd.	e(P)	07	45	29	
	e(P)	14	05	36	
	e(S)		06	08	
	eP	17	13	25½	
	eS			49	
Dec. 24th.	iP	06	44	29	
	eS			41	

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Jan. 4th.	eP	13	09	00	U.S.C.G.S. 6°S, 133°E. Banda Sea. H = 13 05 24
	e		11	50	
	e		12	17	
	eP	18	02	(18)	

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Jan.	7th.	eP	04	58	30
		e(S)		59	01
Jan.	8th.	iP	03	34	48
		eS		35	00
		eP	03	47	26
		eS		48	(32)
		iP	10	02	57
		eS		03	05
		iP	14	34	39
		eS			50
Jan.	9th.	iP	11	13	56
		eS		14	02
		iP!	11	14	38
		eP	21	18	35
		i		19	49

U.S.C.G.S. $5\frac{1}{2}^{\circ}$S, 147°E. Near the North Coast of New Guinea.
H = 11 13 56.
h approx. = 150 kms.
Mag. $6\frac{1}{2}$ (Matsushiro)
Felt: (See Rabaul Bulletin).

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