TERRITORY OF PAPUA AND
Vulcanological Observatory Rabaul

Provisional Readings of Benioff Recordings:
12th January - 18th January, 1962

N.B. N pendulum inoperative from 12th to 16th January.

Jan. 12th.	e(P)	Z	08	55	47	
13th.	e	Z	04	58	43	
	eP	Z	08	24	14	
	i'	Z	08	43	44.8	
	e(P)	Z	11	12	(59½)	Confused by microseisms.
	iP	Z	18	39	20.1	
14th.	eP	Z	04	47	04	
	iP!	Z	09	18	38.0	
	e(P)	Z	13	42	36	
	iP	Z	15	17	41.4	
	eP	Z	16	00	01	
	i!	Z			01.8	
15th.	iP!	Z	04	11	22.5	Dilatation. Also recorded on Omori. Felt: Rabaul, Int.1-2 (M.M.) 04°10'S, 152°10'E.
	iP!	Z	04	32	12.4	Dilatation. Also recorded on Omori.
	iP!	Z	04	37	23.5	Dilatation. (Preshock?)
	iP!	Z	04	39	28.7	Felt: Rabaul, Int.1-2 (M.M.) 04°10'S, 152°10'E.
	Also recorded on Omori.					
	iP	Z	08	41	51.5	
	iP	Z	18	22	33.9	
	i	Z			37.7	Felt: Henganofi, Int.3-4(M.M.) 06°15'S, 145°40'E. Madang, Int.3 (M.M.) 05°15'S, 145°45'E. Lae, Int. ? 06°45'S, 147°00'E.
	iP	Z	21	58	11.3	
16th.	eP	Z	11	43	02	
	e	Z		49	08½	
	iP	Z	17	23	33.2	
	i(S)	E		24	27.3	
17th.	eP	N	12	20	53	
	iP	Z	13	17	42.1	

p.t.o.

FOLD FLAPS BEFORE MOISTENING ADHESIVE

n. 17th.	eP	Z	15	17	08½
ont..	iP	Z	18	14	14.1
	eP	N	19	34	(57½)
18th.	iP	Z	13	19	31.0
	eP	Z	15	42	54
	i!	Z			57.5

Also recorded on Omori.
Felt: Rabaul, Int.1-2 (M.M.)
04°10'S. 152°10'E.

iP Z 15 46 (19.0) Also recorded on Omori.
(in coda of preceding shock) Felt: Rabaul, Int.3 (M.M.)
04°10'S, 152°10'E.

eP Z 15 54 (18) Also recorded on Omori.
(in coda of preceding shock) Felt: Rabaul, Int.2-3 (M.M.)
i! Z 19 04°10'S, 152°10'E.

eP! Z 15 58 (?) Also recorded on Omori.
Felt: Rabaul, Int.2 (M.M.)
04°10'S, 152°10'E.

e Z 20 15 (48)

iP! Z 20 52 14.5 Also recorded on Omori.
Compression. Felt: Palmalmal, Int.2-3 (M.M.)
05°35'S, 151°30'E.

Seismograms read by J.H.H.

J.H.Latter, Vulcanologist.

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Kew Observatory
Richmond,
SURREY ENGLAND

PAPUA & NEW GUINEA
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TERRITORY OF PAPUA AND
Vulcanological Observatory Rabaul

Provisional Readings of Benioff Recordings:
19th January - 23rd January, 1962

Jan. 19th.	iP	Z	12	26	45.2	**Felt:** Volupai, Int.4-5 (M.M.) 05°15'S, 150°00'E. Talasea, Int.3-4 (M.M.) 05°20'S, 150°05'E.
	iP	Z	14	11	03.6	
	iP	Z	15	08	28.5	
	e	Z	21	22	(05½)	Confused by microseisms.
20th.	e(P)N		14	38	52	
	iP!	Z	20	15	09.4	Dilatation. Also recorded on Omori.
	eP	Z	22	50	20½	
21st.	iP	Z	02	44	02.0	
	i!	Z			02.9	
	iP	Z	07	44	50.5	
	e(P)Z		12	57	31	
	e	Z		59	00	
	e	Z	13	01	53	
	e	N	13	07	00½	
	e	Z			04	
22nd.	eP	Z	01	04	(51½)	Confused by microseisms.
	iP!	Z	02	45	22.7	Compression.
	iP!	Z	04	55	51.8	**Felt:** Palmalmal, Int.2-3 (M.M.) 05°35'S, 151°30'E.
	iP!	Z	21	30	35.4	Compression from South West. Also recorded on Omori.
						Felt: Rabaul, Int. 3 (M.M.) 04°10'S, 152°10'E.
23rd.	No record from 2304 hrs. Instrument moved to make way for new equipment.					
	iP	Z	00	16	06.0	
	iP	Z	08	51	48.8	

Provisional Readings of Willmore Recordings (Vertical pendulum only)
Record commenced 0101 hrs.

24th.	iP	Z	03	14	15	24th cont.	eP	Z	16	28	39½
	e	Z	04	50	42½		i	Z			51½
	iP	Z	13	09	46½		i(P)Z		17	18	06½
	iP	Z	13	55	00½		iP	Z	01	52	(57+) Beginning obscured by time break.
	iP	Z	15	47	29		i	Z		53	26
	iP	Z	15	53	22		i	Z		54	08½
	i(S)Z				32½						

Seismograms read by J.H.H.
J.H. Latter, Vulcanologist.

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TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Willmore Recordings:
January 25th - February 1st, 1962

N.B. Vertical pendulum only in use.

Jan. 25th. No time marks 0210 hrs. to 2207 hrs. (following times estimated only).

	iP	Z	04	15	(approx)
	e(P)	Z	08	45	(approx)
	iP	Z	18	54	(approx)
26th.	iP	Z	07	01	25
	eP	Z	11	55	53
27th.	eP	Z	04	26	04½
	iP	Z	08	41	35
	eP	Z	13	11	(58½) Obscured by time mark.
	e(P)	Z	20	29	51
	eP	Z	23	21	55
28th.	iP	Z	03	18	41
	eP	Z	03	56	08½
	e(P)	Z	05	47	21
	iP	Z	16	07	52
	eP	Z	16	47	01½
	iP	Z	22	02	47

29th. No record.
eP(Omori) 15 45 (03)

30th.	iP	Z	02	45	33½
	iP	Z	09	49	49
	iP	Z	13	47	27½
	eP	Z	13	52	48
	i	Z			50
	eP	Z	15	28	03½
	eP	Z	18	35	37½
	i	Z			44½
	i	Z			47½

Jan.31	eP	Z	10	04	13
	eP	Z	13	00	(06)
	iP	Z	15	07	24½
Feb.1	eP	Z	00	47	28

Seismograms read by J.H.H.

J.H. Latter
Vulcanologist

cont. next column

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TERRITORY OF PAPUA AND [illegible]
Vulcanological Observatory Rabaul

Provisional Readings of Willmore Recordings:
1st February to 7th February, 1962

Feb. 1st	eP	Z	11	31	03½	
	iP	Z	23	24	59½	
	iP	Z	23	38	(25)	
2nd.	No time marks after 1900 hrs.					
	iP	Z	03	34	04½	
	eP	Z	11	45	09½	Also recorded Omori.
	eP	Z	15	24	07½	
	iP(Omori)		23	22	14	
3rd.	No Willmore Record.					
	eP(Omori)		00	36	17½	
	e(S)(")			41	41½	
	e (")			45	18½	
4th.	e(P)	Z	03	01	14	
	iP!	Z	13	00	13	Also recorded Omori(S-P = 16½")
						Felt: Rabaul, Int.4 (M.M.) 04°10'S, 152°10'E
						Pomio, Int. 4 (M.M.) 05°30'S, 151°30'E
	iP!	Z	16	17	03½	Also recorded Omori(S-P = 10")
						Felt: Pomio, Int.4 (M.M.) 05°30'S, 151°30'E
						Rabaul, Int.3 (M.M.) 04°10'S, 152°10'E
5th.	eP	Z	01	01	(39)	
	eP	Z	01	08	11½	Also recorded Omori(S-P = 26½")
	iP	Z	03	20	24½	
	eP	Z	03	34	31½	
	i	Z			33	
	eP	Z	07	17	40½	
	eP	Z	07	35	34	
	iP!	Z	09	18	41	
	iP!	Z	09	26	43½	Felt: Rabaul, Int.2 (M.M.) 04°10'S, 152°10'E
	eP	Z	15	57	(53)	
6th.	eP	Z	11	16	51	
	iP	Z	18	35	47	

cont. over

FOLD FLAPS BEFORE MOISTENING ADHESIVE

2.
Feb. 6th. 1P Z 22 34 19½
cont.. 1P Z 23 46 (51)
eP Z 02 09 08
7th. 1P Z 05 53 (51)
eP Z 23 19 17½

Seismograms read by J.H.M.

J.H. Latter
Vulcanologist.

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TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Preliminary Readings of Willmore Recordings and complementary readings of Benioff and Omori recordings at Rapindik auxiliary Station from 8th February to 15th February 1962. Co-ordinates of Rapindik auxiliary Station : 04°13'S, 152°12'E.

Feb. 8th. Willmore not recording from 0133 hrs. on 8th to 0142 hrs. on 9th. No Time Marks on Benioff Recordings from 0659 hrs on 8th to 0400 hrs. on 13th.

iP Z 01 56 (05½) Confused by microseisms.

eP Z 02 34 (40½) Confused by microseisms.

9th. No recordings to 0206 hrs.

eP Z 04 07 (01)

eP Z 04 15 (36)

iP Z 09 25 (19)

e Z 21 57 10½

eP Z 22 58 08

10th. eP Z 01 30 (40½)

eP Z 06 43 (51½) Also recorded on Omori.

eP Z 20 46 (11)

iP Z 22 23 15

11th. iP Z 13 57 26 Also recorded on Omori.

iP Z 18 55 59½
Also recorded on Omori.

Felt: Rabaul, Int. 6 (M.M.)
04°10'S, 152°10'E
Kerevat, Int. 4½ (M.M.)
04°20'S, 152°00'E
Londolovit, Int. 4 (M.M.)
03°05'S, 152°40'E
Boku, Int. 4 (M.M.)
06°35'S, 155°20'E
Namatanai, Int. 3 (M.M.)
03°40'S, 152°30'E
Gavit, Int. 3 (M.M.)
04°10'S, 151°40'E

eP Z 19 17 56½

iP Z 19 35 43½

iP Z 19 49 08½
Also recorded on Omori.

Felt: Rabaul, Int. 1 (M.M.)
04°10'S, 152°10'E

iP Z 20 05 50

iP Z 22 41 45
Also recorded on Omori.

Felt: Rabaul, Int. 1-2 (M.M.)
04°10'S, 152°10'E

12th. iP Z 00 28 55

eP Z 01 33 (50½)

eP Z 04 56 41½ Also recorded on Omori.

iP Z 05 59 49½

Feb.12th. cont..	iP	Z	06	33	09½	
	iP	Z	07	35	07½	
	iP	Z	07	43	57½	
	iP	Z	08	47	22	
	eP i	Z	09	31	04½ 05	
	iP	Z	10	46	15½	
	iP i(S)	Z Z	12	47	01 20	
	iP!	Z	13	45	08½	Felt: Rabaul, Int. 2 (M.M.) 04°10'S, 152°10'E
	Also recorded on Omori.					
	iP	Z	14	42	36½	Felt: Rabaul, Int. 1 (M.M.) 04°10'S, 152°10'E
	Also recorded on Omori.					
	iP	Z	17	20	14½	
	iP	Z	19	20	06½	Also recorded on Omori.
	eP	Z	23	24	33½	
13th.	iP	Z	01	36	59	
	iP	Z	01	49	21½	
	iP	Z	03	05	46	
	iP	Z	04	25	21½	
	iP	Z	04	32	(05)	Felt: Rabaul, Int. 2 (M.M.) 04°10'S, 152°10'E
	Also recorded on Omori.					
	iP	Z	05	34	40½	Also recorded on Omori.
	iP	Z	06	09	(22)	
	iP	Z	09	39	29½	Also recorded on Omori.
	iP	Z	13	51	40½	
	iP	Z	19	25	11½	
	eP	Z	23	07	39	
14th.	iP	Z	01	34	01	
	iP!	Z	01	53	59	Also recorded on Omori.
	eP	Z	02	53	25½	
	iP	Z	04	08	00½	
	iP	Z	07	21	38	
	iP!	Z	07	38	36	Felt: Rabaul, Int. 1-2 (M.M.) 04°10'S, 152°10'E
	Also recorded on Omori.					
	iP	Z	07	46	41	Also recorded on Omori.
	iP	Z	08	10	09½	
	iP	Z	08	36	29	

Feb.14th. cont..

iP	Z	12	08	31	
iP	Z	12	56	10	
eP	Z	14	16	06	
eP	Z	15	19	24	
eP	Z	18	53	(35½)	
eP	Z	22	15	40	Also recorded on Omori.
e(Omori)		23	25	?	

15th. Willmore not recording 0053 hrs. to 0104 hrs.

iP	Z	01	01	20½)	Benioff
i(S)	E		02	32½)	

Felt: Rigo, Int.3 (M.M.)
09°50'S, 147°35'E

iP	Z	02	24	29	
iP	Z	02	27	(46½)	
iP	Z	02	58	33½	
iP!	Z	04	31	57	
iP	Z	05	03	15½	Also recorded on Omori.
iP	Z	05	38	(48½)	
eP	Z	06	25	36	
eP	Z	06	52	29	
i	Z			29½	Also recorded on Omori.
eP	Z	11	25	11	
i(S)	Z			31	
eP	Z	14	08	41	
i	Z			41½	
i(S)	Z			59	
iP	Z	14	37	36	
iP	Z	15	25	57	Also recorded Omori (S-P) = 17.4"

Felt: Rabaul, Int.4-5 (M.M.)
04°10'S, 152°10'E
Namatanai, Int.3 (M.M.)
03°40'S, 152°30'E

iP	Z	16	42	05½	
eP	Z	16	57	(36)	
iP	Z	18	15	47½	
eP	Z	18	45	18	
iS	Z			41	
iP	Z	20	32	41	
iS	Z		33	03	

Seismograms read by J.H.H.

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND N[illegible]
Vulcanological Observatory Rabaul

Provisional Readings of Willmore Recordings:
15th February - 22nd February, 1962

Feb. 15th. cont..	eP	Z	23	24	13
	iP	Z	23	27	29½
16th.	iP	Z	02	13	56
	iP	Z	02	57	32½
	iP	Z	09	57	45
	iS	Z		58	08½
	iP	Z	10	40	36
	iP	Z	11	43	14½
	iS	Z			36
	iP	Z	13	10	38½
	iS	Z		11	00½
	No record after 2330				
17th.	iP	Z	03	51	43½
	iP	Z	04	28	08½
	i(S)	Z			29½
	eiP	Z	05	23	32½
	i(S)	Z			55
	iP	Z	06	21	06½
	i(S)	Z			26½
	iP	Z	07	59	14
	i(S)	Z			33
	iP	Z	09	28	28
	i(S)	Z			42
	e	Z	11	11	54½
	iP	Z	11	58	16
	iS	Z			36
	eP	Z	14	24	34½
	i	Z			36
	i	Z			37½
	i(S)	Z		25	05½
	iP	Z	17	35	46
	i(S)	Z		36	05½
	eiP	Z	20	03	30½
	iP	Z	20	28	30
	i	Z			33
	i	Z			36½
	iP	Z	23	03	17
	i(S)	Z			42½
18th.	iP	Z	00	01	01½
	iS	Z			28

Feb. 18th. cont..	iP	Z	01	25	33	
	i(S)	Z			48	
	iP	Z	11	15	11	
	i(S)	Z			(31½)	
	iP	Z	13	22	49½	
	iS	Z		23	09	
	eP	Z	16	48	10½	
	i(S)	Z			37½	
	iP	Z	16	54	37	
	i(S)	Z		55	04½	
	e(P)	Z	17	44	(20½)	
	e	Z			28	
	e	Z		47	55	
19th.	eP	Z	02	53	05½	
	i(S)	Z			42½	
	iP	Z	03	04	11½	Compression.
	i(S)	Z			36½	
	iP	Z	04	58	04½	Dilatation.

Also recorded on Omori.

Felt: Rabaul, Int. 2 (M.M.)
04°10'S, 152°10'E

	e	Z	11	11	37½	
	iP	Z	13	07	08	
	i(S)	Z			29	
	iP	Z	14	00	57½	Dilatation.
	i(S)	Z		01	17½	
	eP	Z	17	12	13	
	iP	Z	21	39	26½	Compression.
	i(S)	Z			50	
20th.	iP	Z	08	19	36½	
	i(S)	Z			57½	
	eP	Z	09	40	06	
	e	Z			40½	
	eP	Z	10	13	10½	
	e	Z		15	(34½)	
	e	Z	10	17	(34½)	
	e P	Z	16	14	17½	
	i	Z			29½	
	iP	Z	20	25	22½	
	i(S)	Z			40½	
	eP	Z	22	12	(55)	
	iP	Z	22	45	39	
21st.	iP	Z	04	10	36½	
	iP	Z	10	07	09	
	i(S)	Z			28½	
21st. cont..	e	Z	11	29	(38)	
	iP	Z	16	27	22½	

Dilatation to South East.

	eP	Z	18	03	28
	i	Z		04	07
	iP	Z	18	44	52
	i(S)	Z		45	11½
22nd.	iP	Z	13	30	10
	iP	Z	16	47	(54)
	iP	Z	17	59	35
	iP	Z	18	42	15
	i(S)	Z			30

Seismograms read by J.H.H.

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND [illegible]

Vulcanological Observatory Rabaul

Provisional Readings of Willmore and Benioff Recordings:
23rd February to 28th February, 1962

N.B. Benioff Readings are preceded by (B)

Feb. 23rd.		iP	Z	00	07	02	
		iS	Z			23	
		iP	Z	10	09	(25)	
		eP	Z	11	42	03	
		i!	Z			04	Felt: Kaiapit, Int.3 (M.M.) 06°15'S, 146°15'E
	Also recorded on Omori (S-P=63½")						
		eP	Z	12	13	12½	
		i	Z			15½	
		iP!	Z	18	05	33½	Felt: Rabaul, Int.4 (M.M.) 04°10'S, 152°10'E Namatanai, Int.4 (M.M.) 03°10'S, 152°30'E
	Also recorded on Omori (S-P=7.5")						
		iP	Z	18	30	51½	
		iP	Z	18	45	47½	
		iP	Z	19	57	06½	
		iP!	Z	20	21	35½	Felt: Rabaul, Int.4-5 (M.M. 04°10'S, 152°10'E Namatanai, Int.4 (M.M. 03°10'S, 152°30'E
	Also recorded on Omori (S-P=7.5")						
		iP	Z	20	28	11½	In coda of preceding tremor
		iP	Z	20	30	(24)	" " " " "
		iP	Z	20	33	(37)	" " " " "
		iP	Z	20	38	37½	" " " " "
		iP	Z	20	48	(54)	
		iP!	Z	20	59	46½	
		eP	Z	21	15	23	
		iP	Z	22	39	59½	
24th.	(B)	iP	Z	03	03	59	Also recorded Omori. Dilatation.
	(B)	iP	Z	10	32	03	
		iS	Z			10	
	(B)	e(P)	Z	13	55	45	
	(B)	iP	Z	14	28	28½	Compression.
		i(S)	Z			35½	
	(B)	iP	Z	14	59	31	Compression.
		i(S)	Z			38	
	(B)	iP	Z	15	11	29½	Compression.
		iS	Z		12	08	Also recorded on Omori.

cont.over

Feb. 24th. cont..	(B)	eP	Z	15	50	43½	
		i(S)	Z		51	22	Also recorded on Omori.
	(B)	eP	Z	19	36	06½	**Felt**: Kaiapit, Int.3(M.M. 06°15'S, 146°15'E
Also recorded on Omori.							
25th.	(B)	iP	Z	02	46	13½	
		iS	Z			36	
	(B)	iP	Z	02	56	29	
		iS	Z			51	
	(B)	eP	Z	08	09	46	
		e	Z	14	04	13	
		e	Z		05	(29)	
26th.		eP	Z	02	18	54½	
		iP	Z	02	22	15½	In coda of preceding tremor.
		eP	Z	08	51	00	
		eP	Z	12	46	01	
		eP	Z	14	36	27¼	
		i(S)	Z		37	26½	
		iP	Z	14	51	13	

(cont.airletter no. 2)

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AEROGRAMME

By Air Mail · Par Avion

No. 1

PAPUA & NEW GUINEA AEROGRAMME 10d

REGISTER VALUABLE MAIL

RABAUL 2 MAR 1962 T.P.& N.G.

International Seismological Summary

Kew Observatory

Richmond

SURREY ENGLAND

SECOND FOLD HERE

SENDER'S NAME AND ADDRESS.

VULCANOLOGICAL OBSERVATORY

RABAUL

TERRITORY OF NEW GUINEA.

NO TAPE OR STICKER MAY BE ATTACHED.

IF ANYTHING IS ENCLOSED AEROGRAMME WILL BE SENT BY ORDINARY MAIL.

SLIT HERE

FOLD FLAPS BEFORE MOISTENING ADHESIVE

Feb. 26th. cont..

	eP	Z	16	48	19½
	eP	Z	18	05	25 Also recorded on Omori.
	eP	Z	18	52	32
	eP	Z	21	30	30½ Also recorded on Omori.
	iP	Z	21	33	34½ In coda of preceding tremor.
	eP	Z	23	22	18

27th. No recordings to 0100 hrs.

	eP	Z	01	40	08½)
	i(S)	Z		41	15 Also recorded on Omori.
(B)	eP	Z	02	51	19½
(B)	eP	Z	05	04	08
(B)	e(P)	Z	06	44	44½
(B)	iP	Z	11	44	36½ Compression.
	iS	Z			57
(B)	e	Z	12	59	(36)
	e	Z	13	01	10½
(B)	eP	Z	14	26	20½
(B)	iP	Z	18	37	16
	i	Z		38	08
(B)	eP	Z	20	24	50

No recordings from 2257 hrs.

28th. Power break to 0338 hrs.

(B)	e(P)	Z	05	22	(44)
(B)	e	Z	07	47	(03)
(B)	eP	Z	08	38	42½
	i(S)	Z		39	16½
(B)	eP	Z	11	33	04
(B)	eP	Z	17	10	03
	iS	Z			26
(B)	e(P)	Z	20	47	09½
	e	Z		48	32½

Seismograms read by J.H.H.

J.H.Latter
Vulcanologist

FOLD FLAPS BEFORE MOISTENING ADHESIVE

AEROGRAMME

By Air Mail · Par Avion

No. 2

RABAUL
4 15PM
2 MAR
1962
T.P.&N.G.

PAPUA & NEW GUINEA

10t AEROGRAMME 10t

International Seismological Summary

Kew Observatory

Richmond

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VULCANOLOGICAL OBSERVATORY
RABAUL
TERRITORY OF NEW GUINEA

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TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Benioff Recordings 1st March - 7th March, 1962

N.B. C.B.M. = confused by microseisms.
(R) = Benioff reading from Rapindik auxiliary Station.

March 1st.	iP!	Z	05	46	31	
	e	Z	17	40	58½	(R)
	e(P)	Z	18	43	47	
	iP	Z	19	41	49.4	
	i	Z			53.4	
	i(S)	N			58.5	
	e(P)	E	19	59	(21)	C.B.M. (R)
	eP	Z	20	13	16	
	iP	Z	20	16	13.5	
	i	Z			19.0	
	eP	Z	23	46	03½	
2nd.	eP	Z	00	29	03½	
	i(S)	N			40.0	
	iP	Z	10	30	(01½)	C.B.M. (R)
	e(P)	Z	13	08	44½	
	iP	Z	19	49	05.5	Compression.
	iS	N			22	
	iP	Z	20	24	08.5	
	iS	N			21.0	
3rd.	iP	E	02	03	(15)	C.B.M. (R)
	e(P)	Z	02	59	53	
	e	Z	03	01	34	
	e	Z	05	00	06½	
	e	Z	06	42	29	
	iP	Z	07	41	36	
	iS	N			55	
	iP	Z	08	01	09	
	eP	Z	09	44	35.5	(R)
	e	N	10	06	42½	(R)
	e(P)	N	10	53	(04)	C.B.M.
	e(P)	Z	12	20	40½	
	i(P)	Z	13	20	21.0	
	iP	Z	19	10	14.0	Dilatation.
	i(S)	Z			21½	

cont..

March 3rd. cont..	eP	Z	20	22	21	
	e(P)	Z	20	28	(10)	C.B.M.
	iP	Z	21	58	29.8	
	iS	E			49	Dilatation to South East.
4th.	iP	Z	00	33	41.0	Dilatation.
	i(S)	N			57.0	
	iP	Z	00	38	24.5	Dilatation.
	iS	N			43½	
	e	Z	02	18	(02)	C.B.M.
	e	N		19	34	
	e(P)	Z	08	32	29½	
	iP	Z	11	26	47.0	
	i(S)	E		27	26	
	iP	Z	12	59	53.5	
	e(P)	Z	15	18	(39)	C.B.M. (R)
	e	E		19	36	
	e(P)	Z	16	17	30½	(R)
	iP	Z	21	19	06	
	e(P)	E	21	29	(01½)	C.B.M. (R)
	e	E	21	53	(28)	C.B.M. (R)
	e	E		55	06½	
	e	N	22	47	(52)	C.B.M. (R)
	e	Z	22	56	29½	(R)
5th.	e	N	00	47	(21)	C.B.M. (R)
	e(P)	E	01	35	(37)	C.B.M. (R)
	e(P)	N	01	51	23½	(R)
	i(S)	N			40	
	e	Z	04	00	19	
	eP	N	07	31	35½	(R)
	eP	Z	16	13	43	
	iP	Z	16	21	29.6	(R)
	e	E	17	51	29½	(R)
	e(P)	E	18	03	32½	(R)
	e(P)	Z	18	32	57½	(R)
	e(P)	E	22	59	50	(R)
6th.	e(P)	N	00	38	23	(R)
	e	N	01	24	(09½)	C.B.M. (R)
	iP	N	17	44	04½	
	eP	N	18	28	(24)	C.B.M.
	iP	N	20	26	(02½)	C.B.M.

March 7th.	e(P)	Z	01	20	(03½)	C.B.M.
	i	Z			24½	
	iP	Z	02	12	01.5	
	iP	Z	04	11	05	Dilatation.
	i(S)	Z			26.2	
	eP	Z	10	37	22½	
	i	Z			25	
	i(S)	Z			48½	Also recorded on Omori.
	iP	Z	11	05	32.5	Compression.
	i(S)	Z			41	
	i	Z		10	24	
	i	Z			32	
	i	N		15	14½	Also recorded on Omori.
	e(P)	Z	14	03	18	
	e	Z	15	25	32	
	e(P)	Z	17	38	37	
	e(P)	Z	21	43	05½	

Seismograms read by J.H.H.

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW
Vulcanological Observatory Rabaul

Provisional Readings of records 8th March to 15th March, 1962

N.B. (C.B.M.) = confused by microseisms.
(C.T.M.) = confused by time marks.

Readings from the short period Benioff at the Observatory are given where available; where not available, readings from recordings of the other instruments are substituted.

Addition	7th March,	eP	Zr	11	38	26½	
Mar. 8th	iP	Z	01	18	50.7		Dilatation.
	i(S)	Z		19	06		
	eP	Z	02	27	14		
	i(S)	E			32		
	e(P)	Nr	03	23	(05½)		C.B.M.)
	eP	Z	08	15	55		
	e	Zr	10	36	(40½)		
	e	Z	10	56	03½		
	eP	Z	10	56	53½		
	i(S)	E			04½		
	iP	Z	13	25	48.5		Dilatation.
	i(S)	Z		26	(00)		(C.T.M.)
	eP	Z	18	01	(01)		(C.T.M.)
	eP	Z	18	13	49		
	i(S)	Z		14	38		
	e(P)	Nr	19	56	41		
	e	Nr	20	01	(13)		(C.B.M.)
	e(P)	E	20	29	(24)		(C.B.M.)
	i(S)			30	11		
	eP	Z	20	33	29½		
	i(S)	N		34	14		
9th.	e(P)	Er	01	52	(29½)		(C.B.M.)
	e	Er	01	56	(44½)		
	e(P)	Zr	02	35	(10½)		(C.B.M.)
	e(P)	Nr	08	32	(16)		(C.B.M.)
	e(P)	Nr	11	51	52		
	e(P)	Nr	12	15	(35½)		(C.B.M.)Also recorded on Omori.
	eP	Nr	14	02	38		
	eP	Nr	16	16	(18½)		(C.B.M.)Also recorded on Omori.
	eP	Nr	17	13	27		
	e(P)	Nr	19	17	(38)		(C.B.M.)
	iP	Z	22	09	58¼		Also recorded on Omori.
	iS	N/		10	04½		Felt: Kalalo, Int. 6 (M.M.) 06o00'S, 147o10'E.

cont..

Mar. 9th cont..

Felt: Lae, Int. 5½ (M.M.)
06°45'S, 147°00'E
Wantoat, Int. 5 (M.M.)
06°08'S, 146°28'E
Saidor, Int. 4-5 (M.M.)
05°35'S, 146°30'E
Kainantu, Int. 4-5 (M.M.)
06°15'S, 145°50'E
Kaiapit, Int. 4 (M.M.)
06°15'S, 146°15'E
Pindiu, Int. 4 (M.M.)
06°25'S, 147°35'E
Wau, Int. 3 (M.M.)
07°20'S, 146°45'E
Madang, Int. 3 (M.M.)
05°15'S, 145°45'E
Finschhafen, Int. 2-3 (M.M.)
06°35'S, 147°50'E
Garaina, Int. 2 (M.M.)
07°50'S, 147°10'E
Menyamya, Int. 1 (M.M.)
07°10'S, 146°00'E

10th.	e(P)	Er	11	02	(26½)	(C.B.M.)
	e(P)	Er	12	11	40½	
11th.	e(P)	Z	07	23	45¼	
	e	Z	12	00	16	)
	e	Z	12	01	45	) One shock?
	e	Z		03	06	)
	e	Z/		03	(14)	)
	e(P)	Z/	05	33	40	
	e	E/	15	48	07	
	e	Z	16	22	06	
	e(P)	Z	17	35	(13)	(C.B.M.)
	e(P)	Z	19	24	58¼	
	iS	E/		29	56	
	e(P)	Z	20	04	38	
12th.	e	Z/	01	17	(22)	
	e(P)	Er	03	11	(25)	
	e(P)	Er	04	13	(09½)	
	e	Z/	05	08	(33)	
	iP	Er	08	14	07.8	
	e	Z/	10	39	(24)	
	e	Zr	11	59	19	
	iP	Zr	19	33	01.3	
	iS	Er			19.3	
	e	Er	20	21	38½	
13th.	e(P)	Z	02	17	47½	)
	e	Z		20	11	) one shock?
	e	Z		21	19½	

Mar.13th cont..	e	Er	06	31	33½	
	e	Er	09	55	(08)	
	eP	Er	10	02	19½	
	e	Zr	16	25	(26)	(C.B.M.)
	e(P)	Zr	17	20	23½	
	iP iS	Z Z	20	20	13 44½	
14th.	e	Er	01	57	(57)	(C.B.M.)
	e(P)	Er	02	37	23.0	
	iP	Zr	14	26	19.0	Dilatation.
	iP	Zr	15	17	47.8	Compression from South West. Also recorded on Omori.
						Felt: Rabaul, Int. 1-2 (M.M.) 04°10'S, 152°10'E
15th.	e	N/	06	14	02	
	e	N/	07	06	14	
	iP	Z	07	09	26.2	Dilatation.
	eP i(S)	Z N	08	25	15 46	
	e	Z	08	32	27	
	eP i(S)	Z N	10	35	(27) 34	
	iP i	Z Z	17	58	24 47	
	e	Z/	23	03	(42)	

Seismograms read by J.H.H.

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA.
Vulcanological Observatory Rabaul.

Provisional Readings of Benioff Recordings at the Observatory, where available, and from the Rapindik Auxilary Station where unavailable from 16th March to 21st March, 1962.

N.B. C.B.M. = Confused by microseisms
C.T.M. = Confused by time break.

16th March	iP	Zr	09	36	43.0	
	i	Zr			55.7	
	e	Er	15	33	16½	
	eP	Zr	19	47	10	
	i	Zr			24	
	i	Zr			33	
	e	Er			44½	
	e	Nr		58	32½	
	e	Er	20	32	(02)	C.B.M.
	e	Nr		33	(59)	C.T.M.
	e	E	20	39	(16)	C.B.M.
17th March	e	Z	05	33	50½	
	iP	Z	07	51	25½	
	i(S)				51	
	e	Zr	08	05	54	
	e(P)	Nr	08	42	25	
	e(S)			43	16	
	e(P)	Z	08	44	52	
	i(S)	Z		45	45½	
	e	Er	11	16	(03)	C.B.M.
	e(P)	Nr	15	51	56	
	iP	Z	16	23	24	Dilatation
	i(S)	N			35	
	eP	Z	17	19	37½	
	i(S)	Z		20	03	
	eP	Z	18	16	46½	
	e(P)	N	21	07	36½	
18th March	iP	Z	01	5.2	(02)	C.T.M.
	i(S)	E			23½	
	eP	N	02	32	24	
	iP!	Z	03	08	41.0	Dilatation FELT RABAUL INT i(M.M.)
	i(S)	Z		09	(02½)	C.T.M.
	e(P)	Z/	03	10	48	
	e(S)	Z/		16	00	
	iP	Z	04	37	14.0	Dilatation
	i(S)	E			38	
	e	Z	05	36	(36)	C.B.M.
	iP	Z	07	29	44	Dilatation
	e(S)	N		30	06	

(cont. over

18th March (cont.)	iP	Z	08	30	40.5	
	i(S)	E		31	(02)	C.T.M.
	eP	E	12	29	(54)	C.B.M.
	i(S)	E		30	18	
	iP	Z	15	07	32	
	e	Z	15	51	(20)	C.B.M.
	e(P)	Z	20	27	18	
	e	E/	20	34	(10)	
19th March	e	Z/	05	14	(20)	
	i(S)	Z/			(44)	
	iP	Z	06	00	23½	Compression from North West
	i	Z			54	
	e(P)	Z	06	05	04	
	iP	Z	08	22	14.5	Compression
	i(S)	Er			36½	
	iP	Z	12	05	09	Compression
	i(S)	N			37	
	e	Zr	16	18	(00)	C.B.M.
	iP	Z	19	08	12.5	Dilatation
	i(S)	Z			27	
	i	N			44	
20th March	iP	Nr	01	01	(59½)	C.B.M.
	e	Z/	06	05	44½	
	e	Nr	14	38	42½	
	e	Er	18	22	(17)	
	e	Er	21	20	43	
	e	Er	22	59	40	
21st March	e	Z	02	35	44½	
	iP	Z	03	19	20.0	Dilatation
	i(S)	E	20	15½		
	eP	Z	09	58	47½	
	i	Z			53	
	i(S)	Z		59	23½	
	e(P)	Z	10	11	54½	
	e(P)	Z	12	42	16½	
	eP	Z	23	04	30	
22nd March	iP		00	08	46.0	Dilatation
	i(S)			09	13½	

Seismograms read by J.H.H.

J. H. Latter,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

Vulcanological Observatory Rabaul.

Provisional Readings of Benioff Recordings from Observatory and where not available from Rapindik Auxilary Station for the period 22nd March to 28th March, 1962.

N.B. C.B.M. = Confused by microseisms.
C.T.M. = Confused by time break.

Additions:

21st March	e	Nr	08	32	14	
	eP	Er	13	35	(23)	
	i(S)	Er			35½	
	iP	Er	21	55	(14)	C.B.M.
22nd March	iP	Z	00	08	46.0	Dilatation
	iS	E		09	13½	
	e	Er	00	26	24½	
	eP	Z	02	51	39	
	i(S)	N		52	07	
	eP	Z	03	16	(32)	C.B.M.
	iP	Z	04	53	36.0	Dilatation
	eP	Z	05	31	(40)	C.B.M.
	e	Z/	06	30	45	
	eP	Z	07	15	47	Felt: Lae Int.5(M.M.) 06°45'S, 147°00'E.
	e	Z	12	09	(31½)	C.B.M.
	iP	Z/	15	15	24½	Dilatation to N.Nth. West. Also recorded on Omori.
	iS	Z/		17	20	Felt: Aitape Int.5(M.M.) 03°10'S, 142°20'E. " Lumi Int.5(M.M.) 03°30'S, 141°55'E.
	eP	Z	16	19	34	
	e	Z	17	22	(21)	C.B.M.
	eP	Nr	17	29	30½	
	e(P)	Z	17	49	23½	
	e	Z	19	50	(31)	C.B.M.
	eP	Z	20	07	27	
	i(S)	N			47	
	eP	Nr	23	22	18	
23rd March	e	Z/	01	55	53½	
	eP	Z	09	05	48½	
	e	Z	14	51	20½	
	e(P)	Er	23	04	(39)	C.B.M.

(Cont. over

24th March	e	Z/	01	52	08	
	e(P)	Z	01	57	20½	
	iP	Z	02	31	44½	
	i	Z		32	17	
	eP	Z	13	01	15	Compression from Nth. West
	iS	N		02	38	Also recorded on Omori.

Felt:

Simbai	Int.7-8 (MM) 05°10'S, 144°30'E.	Bogia	Int.4 (MM) 04°15'S, 144°55'E.
Bundi	Int.6-7 (MM) 05°40'S, 145°15'E.	Tapini	Int.4 (MM) 08°20'S, 147°00'E.
Henganofi	Int.6 (MM) 06°15'S, 145°40'E.	Kaiapit	Int.4 (MM) 06°15'S, 146°15'E.
Mt. Hagen	Int.5-6 (MM) 05°50'S, 144°15'E.	Madang	Int.4 (MM) 05°15'S, 145°45'E.
Kompiam	Int.5½ (MM) 05°20'S, 143°55'E.	Lae	Int.4 (MM) 06°45'S, 147°00'E.
Tung	Int.5 (MM) 04°15'S, 144°45'E.	Kairiru Is.	Int.4 (MM) 03°20'S, 143°35'E.
Dreikirkir	Int.5 (MM) 03°30'S, 142°40'E.	Yodda	Int.4 (MM) 08°50'S, 147°40'E.
Okapa	Int.5 (MM) 06°10'S, 145°05'E.	Balimo	Int.3-4 (MM) 07°55'S, 143°27'E.
Kundiawa	Int.5 (MM) 06°00'S, 145°00'E.	Woitape	Int.3 (MM) 08°30'S, 147°15'E.
Kainantu	Int.4-5 (MM) 06°15'S, 145°50'E.	Baimuru	Int.2-3 (MM) 07°30'S, 144°50'E.
Kerowagi	Int.4-5 (MM) 05°50'S, 144°50'E.	Nipa	Int.2 (MM)
Mendi	Int.4 (MM) 06°10'S, 143°40'E.	Port Moresby	Int.2 (MM) 09°25'S, 147°10'E.

	eP	Z	14	05	38½	
	i(S)	N		06	00½	
	e	Z	15	28	(26½)	C.B.M.
	iP	Z	17	09	27.0	Compression
	i(S)	E		10	06½	
	eP	Z	20	29	22	
	eP	Z	20	43	52½	Also recorded on Omori
	i(S)	N		44	57	
25th March	eP	Z	05	33	20	
	e(P)	Z	06	16	(25½)	?
	i!	Z			35	
	i(S)				39½	
	e	N/	11	06	(40)	
	eP	Z	13	49	16½	
	i(S)	Z			43½	Also recorded on Omori
	eP	Z	14	38	(04)	
	e(P)	Z	14	57	54½	
	i(S)	N		58	26½	
	iP	Z	17	25	14	Compression
	iS	Z			29	
	e	Nr	19	45	30½	

(Cont. over

25th March (cont.)	iP!	Zr	20	22	05.2	
	i(S)	Z/			18	Compression from Nth. West Also recorded on Omori. Felt: Rabaul Int. 1-2 (MM) 04°10'S, 152°10'E.
	e	Z/	21	54	47½	
26th March	e(P)	Z	03	16	16	
	e(S)	Z/		20	43	
	iP	Z	05	59	55½	
	i(S)	E	06	00	15	
	iP!	Z	12	01	44	Dilatation
	i(S)	Z			56.5	
	e	Z/	13	25	33	
	iP!	Z	15	21	58.5	Dilatation to Sth. West
	i(S)	N		22	06	Felt: Lae Int. 3-4 (MM)
	e	N/		22	47	06°45'S, 147°00'E.
	e	Z	16	51	29½	
	e	N/	17	02	36)	
					)	One shock ?
	e	N/	17	09	12)	
	iP	Z	17	50	57.6	Dilatation
	i(S)			51	08½	
	iP	Z	19	16	10	Compression
27th March	e(P)	Er	05	27	31½	
	eP	Zr	12	46	32½	
	eP	Nr	15	31	21	
	e	Er			52½	
	eP	Zr	17	50	24½	
	i(S)	Er		51	18	
	e	Er	22	01	12½	
	e	Er			25	
28th March	eP	Z	04	14	46	
	e	Z	12	27	(05)	C.B.M.
	e	N/		32	47	
	iP	Z	13	44	41	
	e(P)	Z	14	20	12½	
	eP	Nr	15	43	03	
	eP	Z	15	55	20½	
	i!	Z			21½	
	e	Er	20	23	(03)	C.B.M.
	e	Zr		24	(06)	C.B.M.
	e(P)	Nr	23	11	(01)	C.B.M.

Seismograms read by J.H.H.

J. H. Latter,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.
Vulcanological Observatory Rabaul.

Provisional readings of Benioff Recordings from Observatory and where not available from Rapindik Auxiliary Station for the period 29th March to 4th April, 1962.

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C.T.M. = Confused by time breaks.

29th March	eP	Z	02	01	49	
	eP	Z	04	20	38½	
	i(S)	N			51	
	iP	Z	05	44	26	Compression
	eP	Z	08	48	56	
	i(S)	Z		49	11	
	eP	Z	12	28	12	
	i(S)	N			36	
	eP	Z	20	14	25½	Dilatation
	eS	Z/		18	52	
	e	Nr	21	00	(40½)	C.B.M.
30th March	e	Er	00	10	(22)	C.B.M.
	iP!	Z	04	21	22.8	Compression
	i(S)	Z/			46	
	iP	Z	07	53	46½	Dilatation
	iP	Z	07	55	08½	
	i(S)	N			27½	
	e	Z	08	04	44	
	e	Er	08	27	(23½)	C.B.M.
	e	Z	09	43	22	
	eP	Z	10	53	(57)	C.T.M.
	i(S)	N		54	22	
	e(P)	Z	14	30	11	
31st March	iP	Z	06	13	(01)	C.T.M.
	iS	Er			23	
	e	Z/	07	51	(06)	
	e	Z/		56	20	
	e	Z/	08	00	15	
	e	Z/		06	33	
	e	Z	08	55	(33)	C.B.M.
	iP!	Z	10	33	06	Dilatation
	i(S)	E			55	
	eP	Z	12	45	(17)	C.B.M.
	i(S)	Z			38½	

(Cont. over

31st March (Cont.)	iP	Z	16	26	19	
	i(S)	N			36½	
1st April	iP	Z	01	15	21	
	iP	Z	07	20	18½	
	e	Er	07	43	03	
	iP	Z	12	13	18	Compression from West (South West?) Also recorded on Omori.

Felt:

Koroba Int.6 (MM) 05°44'S, 142°44'E.

Yangoru Int.5-6 (MM) 03°40'S, 143°20'E.

Ambunti Int.5-6 (MM) 04°15'S, 142°50'E.

Marienberg Int.5 (MM) 03°55'S, 144°10'E.

Oksapmin Int.5 (MM) 05°10'S, 142°10'E.

Mendi Int.4-5 (MM) 06°10'S, 143°40'E.

Bogia Int.4 (MM) 04°15'S, 144°55'E.

Dreikikir Int.4 (MM) 03°30'S, 142°40'E.

Lumi Int.3 (MM) 03°30'S, 141°55'E.

Kairiru Is. Int.3 (MM) 03°20'S, 143°35'E.

"	iP	Z	15	41	35	Dilatation
	e	Z/		45	26	
	iP	Z	19	34	58½	Dilatation
	i(S)	Z		35	07	
2nd April	e(P)	Zr	00	19	42½	
	iP	Z	04	12	13.6	Dilatation
	i(S)	Z			38	
	eP	Z	16	10	44	
	i(S)			11	05	
	iP	Z	17	27	04	
	i(S)	N			24	
	eP	Z	18	35	16	
	i!	Z			20.5	
	i(S)	Z			39	
	e	N/		36	27	
	eP	Z	23	55	17	
	i(S)	E			39½	
3rd April	eP	Z	00	55	(04½)	C.B.M.
	i(S)	Z			20	
	iP!	Z	02	39	18	Dilatation
	e(S)	N			31½	
	iP	Z	05	27	41½	Compression
	i(S)	Z/		28	56½	
	iP	Z	11	27	48½	Dilatation
	i(S)	N		28	09½	
	eP	Z	15	42	20	Felt: Ambunti Int.4 (MM) 04°15'S, 142°50'E.

Dreikikir Int.3 (MM) 03°30'S, 142°40'E.

3rd April (Cont.)	eP	Z	16	28	16½	Dilatation
	i(S)	Z		30	57½	
	iP	Z	16	31	(?)	In coda of preceding shock.
	iP!	Z	17	51	14	Dilatation to South West.
	i(S)	N			34	
	e	Z	18	42	51½	
4th April	eP	Z	03	34	03	
	iP	Z	03	51	32	
	i(S)	E		52	19	
	eP	Z	10	37	03	
	i(S)	E			19½	
	e	Z	11	01	24	
	eP	Z	12	03	25	
	i	E		04	29	
	eP	Z	12	36	31	
	eP	Nr	13	06	13	
	e	Z	14	21	35½	
	eP	Z	15	13	39	
	i(S)	E			56½	
	e(P)	Z	17	25	(04)	C.B.M.
	iP	Z	17	57	58	
	i(S)	Z		58	23½	
	e	Nr	18	48	(36½)	C.B.M.
	iP	Z	20	51	32	Dilatation
	i(S)	E			44	

Seismograms read by J.H. Herlihy.

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TERRITORY OF PAPUA AND NEW GUINEA.
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Provisional Readings of Benioff Recordings from Observatory and where not available from Rapindik Auxiliary Station for the period 5th April to 11th April, 1962.

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C.T.M. = Confused by time break.

5th April	e	Nr	02	09	09	
	iP	Z	10	50	11½	Dilatation
	eP	Z	19	25	42½	
	i(S)			26	25½	
	e	Z	19	50	30½	
	e	Z/	19	55	25½	
6th April	eP	Z	02	18	46	
	i(S)	E		19	29½	
	iP!	Z	03	36	38	Compression
	iP	Z	06	53	05	Dilatation
	e(S)	E/		54	46½	
	e	Z	17	03	21½	
	e	Z/	17	33	19½	
	e	Nr	18	25	(42)	C.T.M.
	iP	Z	19	12	59½	
	i(S)	N		13	19½	
	eP	Z	22	16	09	
	i(S)	E			28½	
7th April	iP	Z	05	24	29	
	i(S)	Z			48	
	eP	Z/	06	25	22	Compression from
	e(S)	E/		28	20	North West.
	e	Z	21	01	42	
	eP	Z	21	38	44	
	eP	Z	21	55	29	
	eP	Z	22	32	(24)	C.B.M.
	eP	Z	22	37	22½	
	eP	Z	23	23	47	Dilatation
	iP	Z	23	38	22½	
8th April	eP	Z	50	37	32	
	eP	Z	01	17	(00)	C.T.M.
	eP	Z	01	24	20	
	eP	Z	04	31	09	
	eP	Z	05	24	08	
	e(S)	N			40	

(Cont. over

8th April (cont.)	eP	Z	14	26	32	
	i	Z			42	
	eP	Z	14	56	15	
	i(S)	E			34	
	iP	Z	15	55	23½	
	i(S)	E			42	
	iP	Z	20	21	52	Compression
	i(S)	E		22	12	
9th April	iP	Z	07	38	45	Compression
	i(S)	N		39	03	
	e	Z/	09	00	13	
	e	Z/		05	53	
	e	Z/		08	20	
	e	Z	09	10	55	
	e	Z	10	29	33	
	e	N/	10	35	55	
	e	Z	17	45	18½	
	iP	Z	17	47	46½	
	i(S)	E		48	(03)	
10th April	iP	Z	00	49	06	
	eP	Z	04	55	(20)	C.B.M.
	eP	Z	07	30	27	
	eP	Z	10	41	31½	
	eP	Z	14	43	11	
	i(S)	N			29½	
	eP	Z	21	38	(51)	C.B.M.
11th April	iP	Z	04	28	35½	
	e	Z	09	26	50?	
	e	Z	11	03	29½	
	e	Z/		08	18	
	e	Z/		12	(00)	
	e	Z	19	01	03	
	e	N/		04	12	
	e(P)	Z	21	36	22½	

Seismograms read by J.H. Herlihy.

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TERRITORY OF PAPUA AND NEW GUINEA.
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Provisional Readings of Benioff Recordings from Observatory and where not available from Rapindik Auxiliary Station for the period 12th April to 17th April, 1962.

N.B. C.B.M. = Confused by microseisms.

The Instruments at the Observatory have not been operating from 14th April.

12th April	eP	Z	01	00	37	Dilatation
13th April	e(P)	Z	12	30	48½	
14th April	iP	Zr	06	43	07	
	i(S)	Nr			20	
	iP	Zr	13	50	43	Compression
15th April	e	Zr	00	45	(48)	C.B.M.
	iP	Zr	08	29	12.5	
	i(S)	Zr			43	
	eP	Nr	12	53	(24½)	C.B.M.
	iP	Zr	20	29	45.8	
	i(S)	Er			(29)	
16th April	e	Zr	11	37	57½	
	eP	Nr	12	27	16	
	i(S)	Nr			31½	
	eP	Zr	13	06	31½	
	e(S)	Er			55½	
	e	Zr	13	27	50½	
	e	Er		32	28½	
	e(P)	Nr	22	00	(16)	C.B.M.
	e(S)	Er			24½	
17th April	iP	Zr	01	14	57.8	Dilatation
	iP	Zr	01	19	(03)	C.B.M.
	e	Nr	17	51	03	
	iP!	Zr	22	27	54	Dilatation

Seismograms read by J.H. Herlihy.

J.H. Latter,
Vulcanologist.

FOLD FLAPS BEFORE MOISTENING ADHESIVE

AEROGRAMME

By Air Mail · Par Avion

RABAUL
4-30PM
19 APR
1962
T.P.&N.G.

PAPUA & NEW GUINEA

CHECK ADDRESS
IF INCOMPLETE
ADVISE

10t AEROGRAMME 10t

International Seismological Summary,

Kew Observatory,

RICHMOND, Surrey,

ENGLAND.

FIRST FOLD HERE

SECOND FOLD HERE

SENDER'S NAME AND ADDRESS.

NO TAPE OR STICKER MAY BE ATTACHED.

IF ANYTHING IS ENCLOSED AEROGRAMME WILL BE SENT BY ORDINARY MAIL.

[illegible] Geophysical Observatory Rabaul.

Provisional Readings of Rabaul Seismograms for the period: 18th April to 2nd May, 1962.

N.B. C.B.M. = Confused by microseisms.
C.T.M. = Confused by time mark.

Correction:- 16th April e Zr 13 27 00
e Er 32 28½

18th April	No records.					
19th April	No records from 0000 to 0450 hrs.					
	eP	Nr	19	43	10½	
	e(P)	Nr	22	19	(30½)	C.B.M.
20th April	eP	Zr	00	47	05.7	Felt: Rabaul Int. 2 (M.M. 04°10'S, 152°[illegible]'E.
	iP	Zr	01	05	11.1	
	e(P)	Zr	06	07	10½	
	e	Nr		10	45½	
	e	Nr	21	28	38½	
21st April	e(P)	Zr	03	35	04	
	iP	Z	08	09	(01½)	C.T.M.
	i	N			14½	
	iP	Z	14	22	21.5	Dilatation
	i	N/			50½	
	eP	Z	15	07	(46½)	C.B.M.
	eP	Z	21	20	02½	
	i	Z			22½	Felt: Bieng Int. 2(M.M.)) 04°05'S, 145°05'E)
						" Tabele Int. 1-2 (M.M.) 04°05'S, 145°05'E Manam Island.
22nd April	iP	Z	02	14	30½)	
	i	Z		15	03½)	One shock ?
	iP!	Z	07	21	42.2	Compression from south west.
	eP	N	15	46	51	
	i(S)	Z		47	19	
	eP	Z	16	38	54½	
	i(S)	E/		39	(10)	
23rd April	eP	Zr	05	23	08	
	eP	Zr	06	06	30	
	iP!	Z	14	27	22.9	Dilatation
	i(S)	N			33½	
	e	Z	15	21	(00)	C.T.M.
	iP	Z	19	18	33½	
	iP!	Z	19	36	56.9	Compression
	i(S)	E		37	09.6	
	iP!	Z	21	07	06.2	Dilatation to South West

23rd April (Cont.)						Felt: Walindi Int.2 (M.M.) 05°25's, 150°05'E.
24th April	iP!	Z	06	56	38.0	Compression from south east
	iP!	Z	11	54	59.0	
	i	Z		55	29	
	eP	Nr	16	03	54	
	eP	Z	18	10	15	
	i(S)	E			55½	
	iP	Z	23	25	24.0	
	i(S)	E			34½	
	eP	Er	23	55	25½	
25th April	e	Z	08	21	43½	
	e	Z/		23	20½	
	e	Z/		24	26½	
	iP	Z	11	37	53.0	Compression
	e(P)	Z	15	55	22½	
	e	Z/	16	01	02½	
	e	Z/		05	04½	
	e	Z/		07	04½	
	eP	Zr	18	41	56½	
26th April	iP	Z	02	45	28.5	Compression
	eP	Zr	07	32	00½)	
	e	Er		36	35½)	One shock ?
	e	Er		41	31½	
	e	Er	23	50	(21)	
27th April	iP	Z	08	37	26.3	
	iP	Z	09	00	24	
	eP	Er	10	57	25½	
	e	Z	13	39	26	
28th April	iP	Z	04	13	05.9	
	eP	Z	04	31	00½	
	eP	Z	05	31	55	
	e	Z/	07	43	00	
	e	Z/			46	
	e	Z	11	39	(10½)	C.B.M.

(Cont. over

28th April (Cont.)	eP	Z	14	21	46½	
	eP	Z	14	39	16	
	i(S)	N			37	
	e	Er	15	17	(03½)	
	iP!	Z	18	55	04.6	Compression
	i(S)	N/			15.1	
	e	Er	23	03	22	
29th April	iP!	Z	09	04	44.2	Dilatation
	i(S)	N		05	02.5	
	iP!	Z	12	47	54.2	Dilatation
	i(S)	Z		48	03.5	
30th April	eP	Z	02	34	31	
	e	Z/		38	52	
	eP	Z	03	32	31½	
	iP	Z	04	52	05.2	
	i(P)	Z	09	49	01.1	
	e	Z/		53	05	
	e(P)	Z	16	23	31	
	e	Z/		24	46	
	e	Z/		28	22	
	e	Z/		33	07	
	e(P)	Z	18	37	39½	
	e	Z/		47	16	
	iP!	Z	19	58	36.0	Dilatation
	e	Z/			52	
	e(P)	Z	20	45	55	
	e	Z/		46	42	
	e	Z/		54	12	
1st May	e	Z	02	56	55	
	iP	Z	09	59	16.0	Dilatation
	iP	Z!	15	44	51.3	Dilatation
	iP	Z	20	49	29.6	
	i(S)	N			45.4	
2nd May	e	Z	09	15	12	
	i	Z			28	
	e	Z		19	05	
	eP	Z	13	51	15	
	e(S)	Z			35	
	e	Z	20	50	37	
	iP	Z	21	07	00.4	Dilatation
	i(S)	N			20	

Seismograms read by J.H. Herlihy.

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Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
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Provisional Readings of Rabaul Seismograms for the period 3rd May to 9th May, 1962.

N.B. C.B.M. = Confused by microseisms
C.T.M. = Confused by time marks.

3rd May	e	Z	02	46	27½	
	iP!	Z	04	31	07.4	Dilatation to South West
	i(S)	N/			48	Felt: Pomio Int.3 (MM) 05°30'S, 151°30'E.
	iP	Nr	07	12	05.0	C.B.M.
	iP	Z	11	11	53.8	Compression
	iP	Z	12	28	(58.9)	C.T.M.
	i(S)	N		29	27	
	eP	Z	12	46	49½	
	i(S)	N		47	21½	
	eP	Z	15	06	13½	
	i(S)	N			47	
4th May	eP	Z	20	25	14	
	eP	Z	21	07	50½	
5th May	eP!	Z	02	16	54.3	Dilatation
	i(S)	N		17	21.6	
	iP!	Z	02	25	34.9	Dilatation
	i(S)	N		26	02.5	
	iP!	Z	02	37	32.2	Dilatation
	i(S)	N		38	(02)	
	iP	Z	04	13	27.0	Dilatation
	i(S)	N			46½	
	iP	Z	04	24	35.9	Dilatation
	i(S)	N		25	(05)	
	iP	Z	04	53	42.1	Dilatation
	i(S)	N		54	(05)	
	iP	Z	04	58	01.0	Dilatation
	i(S)	N			28	
	iP	Z	05	05	03.9	Dilatation
	iP	Z	05	15	59.6	Dilatation
	i(S)	N		16	24.2	
	iP	Z	09	03	16.2	Dilatation
	i(S)	N			43.2	
	e	E/	11	28	18	
	iP	Z	17	08	12.4	Dilatation
	i(S)	Z/			54	
	iP	N	17	11	(48)	in coda of preceding shock.
	iP	Z	19	18	39.8	Compression
	iP!	Z	20	01	19.2	Dilatation
	i(S)	N			46.2	

5th May cont.	iP	Z	20	32	40.9	Dilatation
	iP	Z	20	57	23.7	Dilatation
	iP!	Z	22	02	05.5	Dilatation
	i(S)	Z/			23	
	iP	Z	22	53	57.2	Dilatation
	i(S)	N		54	28.8	
	e	Z	23	13	30	
6th May	eP	Z	00	36	(00)	C.T.M.
	iP	Z	00	40	19.5	in coda of preceding shock
	iP	Z	00	58	44.1	Dilatation
	iP	Z	01	05	42.4	Dilatation
	iP	Z	02	05	48.1	Dilatation
	i(S)	N		06	17.1	
	iP	Z	02	26	12.4	Dilatation
	e	N/			52	
	eP	Z	02	32	13	
	iP	Z	03	35	42.2	Dilatation
	i(S)	N		36	11	
	eP	Z	05	22	19	
	iP	Z	07	10	39.9	
	e	N/		11	05	Also recorded on Omori. Felt: Rabaul Int.1 (MM) 04°10'S, 152°10'E.
	iP!	Z	07	45	15.9	Dilatation
	e	E/			29	Also recorded on Omori. Felt: Rabaul Int.1 (MM) 04°10'S, 152°10'E.
	iP!	Z	09	47	25.9	Compression
	e	N/		48	03	
	iP	Z	10	53	14.2	
	e	N/			52½	
	eP	Z	11	06	35	
	e	E/		07	04	
	iP	Z	11	26	30.4	
	e	E/		27	03	
	iP	Z	12	24	07.8	Compression
	e	N/			26	
	iP	Z	15	13	44	
	e	Z/	19	15	12	
	e	Z/		18	42	
	e	Z		18	53	
	e	N/		19	16	
	e	N/		19	53	
7th May	iP	Z	04	58	39.3	
	iP!	Z	09	40	04.1	Compression
	i(S)	Z/			14	Also recorded on Omori. Felt: Rabaul Int.2 (MM) 04°10, 152°10'E.

7th May Cont.	iP	Z	12	36	00	C.T.M.
	i(S)	N			28.5	
	eP	Z	15	10	29	
	iP	Z	17	03	31.5	Dilatation
	i(S)	N			50.5	
	iP	Z	17	48	41.0	Compression
	e(S)	N/		55	51.6	from North East
8th May	iP	Z	10	47	39.5	Dilatation
	iP!	Z	14	57	40.8	Dilatation
	i(S)	N			56.2	
	eP	Z	15	34	51½	
	iP	Z	17	22	26.5	Dilatation
	i(S)	N			56	
9th May	iP	N	00	51	45	
	i(S)	N		52	33	
	eP	Z	06	09	(41½)	C.B.M.
	iP	Z	09	10	24.5	Compression
	iP	Z	19	18	14.0	
	i(S)	N			31½	
	eP	Z	19	53	03	
	i(S)	N			23	

Seismograms read by J.H. Herlihy.

J. H. Latter,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.
Vulcanological Observatory Rabaul.

Provisional Readings of Rabaul Seismograms for the period 10th May to 16th May, 1962.

N.B. C.B.M. = Confused by microseisms
C.T.M. = Confused by time marks.

10th May	iP	Z	22	43	20.5	C.B.M.
11th May	iP	Z	07	07	07.5	
	i	N/			28.8	
	e	N/		08	03	
	e(P)	Z	12	10	39	
	e	N/	14	28	08 (?)	
	e	N/		36	48	
	e	N/		37	48	
	e(P)	Z	20	14	53½	
	e(P)	Z	20	20	44	
	iP	Z	20	41	(03½)	in coda of small local shock
12th May	i(P)	Z	10	51	32.8	
	iP!	Z	11	20	12.0	Dilatation
	i(S)	N			38.0	
	e	Z/		21	25	
	e	Z/		21	42	
	iP	Z	14	44	38.0	Dilatation
	i(S)	N		45	07	
	iP	Z	23	05	15.0	
13th May	e	Z/	02	36	(20)	
	e	Z/	10	55	41	
	iP	Zr	14	10	23.0	
	i(S)	Er			41	
	e	Er	19	48	46	
	iP	Er	20	45	17.5	
14th May	e	Z	10	40	06	
	e(P)	Z	13	55	25½	
15th May	e	Z/	01	01	(13)	
	iP	Z/	05	28	57.6	Compression
	e	Nr	06	48	(14½)	C.B.M.
	e	Z/	10	55	(14)	
	e	Z/		56	21	
	e	N/		56	46	
	e(P)	N/	11	25	(05)	
	eP	Er	13	52	41½	

PAPUA & NEW GUINEA 10c AEROGRAMME

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AEROGRAMME

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Kew Observatory,

RICHMOND,

Surrey, ENGLAND.

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SENDER'S NAME AND ADDRESS.

VULCANOLOGICAL OBSERVATORY, RABAUL, TERRITORY OF NEW GUINEA.

NO TAPE OR STICKER MAY BE ATTACHED.

IF ANYTHING IS ENCLOSED AEROGRAMME WILL BE SENT BY ORDINARY MAIL.

FIRST FOLD HERE

15th May	~~e Z/~~	~~16~~	~~10~~	~~28~~	e z/ 16 10 28
Cont.	~~e Z/~~	~~17~~	~~05~~	~~10~~	e z/ " " "
16th May	e(P)Z/	05	20	55½	e z/ 16 5 9 13
	e Z/		25	29½	e z/ 17 0 5 10
	e Z/	08	31	17½	
	e Z/	14	40	44½	
	e(P)Z/	17	37	05½	
	e Z/		41	49	

Seismograms read by J.H. Merlihy.

J. H. Latter,
Vulcanologist.

FOLD FLAPS BEFORE MOISTENING ADHESIVE

TERRITORY OF PAPUA AND NEW GUINEA.
Vulcanological Observatory Rabaul.

Provisional Readings of Rabaul Seismograms for the period 17th May to 23rd May, 1962.

N.B. C.B.M. = Confused by microseisms
C.T.M. = Confused by time marks.

17th	e	Z	02	27	41	
	e	Z		29	32	
	iP	Z	16	54	19.2	Dilatation
	iP	Z	21	45	52.9	Dilatation
	i(S)	E		46	09	
18th	iP!	Z	12	40	35.7	Compression from Nth. West?
	iP	Nr	18	35	58½	
	e	Z	18	55	36½)	
	e	Z	19	03	52)	one shock?
	iP	Er	19	53	28½	
	i(S)	Er			48.3	
	iP!	Z	21	33	18.0	Compression
	i(S)	N			36	
	e	Z/	23	31	38	
19th	eP	N	14	14	24	
	i(S)	N			50	
	e(P)	Z/	15	12	34	
	e	Z/			48	
	e	N/		23	19	
	e	Z/		26	19	
	e	Z/		32	36	
	e	Z/		48	12	
	eP	Nr	17	16	40½	
	eP	N	20	44	51	
	e	Z/		46	06	
	e	Z/			38	
	e	Z/		48	11	
	e	Z/		49	32	
20th	e(P)	Er	00	17	(13½)	C.B.M.
	e	Z	15	50	40	
	e	Z/		51	54	
	eP	Z	21	47	17	
	i	N			31	
	iP	Z	21	52	13½	
	e	N/			35	
21st	eP	Z/	12	13	43	Compression North West?
	i(S)	E/		22	34	
	e	Z/		27	08	
	e	Z/		35	22	
	iP	Zr	13	28	16.8	Felt: Rabaul Int. 1-2 (MM) 04°10'S, 152°10'E.
	iP	Z/	21	21	39.6	Dilatation to south east.

21st	i	E/	21	23	59	
Cont.	i	N/		28	50	
22nd	e	Z	02	08	33	
	eP	Z/	08	10	22	Dilatation from South East.
	i(S)	N/		13	20	Also recorded on Omori.
	eP	Z	18	32	39	
	iP	Z	22	03	54.4	Dilatation. Multiple shock? Also recorded on Omori (S-P 1'35" approx.)
						Felt: Palmalmal Int.5-6 (MM) 05°35'S, 151°30'E. Pomio Int.5 (MM) 05°30'S, 151°30'E. Rabaul Int.4 (MM) 04°10'S, 152°10'E. Kambubu Int.4 (MM) 04°35'S, 152°25'E. Doilene Int.4 (MM) 04°15'S, 151°35'E. Gavit Int.3 (MM) 04°10'S, 151°40'E.
	iP!	Zr	22	11	(39.5)	Felt: Doilene Int.2 (MM) 04°15'S, 151°35'E.
	iP	Z	22	23	(52)	
	iP	Zr	22	25	(35½)	in coda of preceding shock.
	iP	Z	22	31	34.0	Also recorded on Omori.
						Felt: Palmalmal Int.2-3 (MM) 05°35'S, 151°30'E. Rabaul Int.2 (MM) 04°10'S, 152°10'E.
	iP	Zr	22	34	(08?)	in coda of preceding shock.
	eP	Er	22	46	21½	
	iP!	Z	23	16	06.0	Dilatation. Also recorded on Omori.
						Felt: Palmalmal Int.2-3 (MM) 05°35'S, 151°30'E.
	iP!	Z	23	35	19.5	Dilatation. Also recorded on Omori.
						Felt: Palmalmal Int.1-2 (MM) 05°35'S, 151°30'E.
	eP	Z/	23	46	06	
23rd	eP	Er	00	03	37½	
	iP!	Z	00	21	21.8	Dilatation.
	i(S)	Z			38	
	iP	Z	01	28	57.4	Dilatation.
	iP!	Z	03	43	41.3	Compression. Also recorded on Omori.
						Felt: Palmalmal Int.1-2 (MM) 05°35'S, 151°30'E. Rabaul Int.2 (MM) 04°10'S, 152°10'E. Pomio Int.3 (MM) 05°30'S, 151°30'E.
	iP!	Z	05	04	08.5	Dilatation from South West. Also recorded on Omori.

23rd Cont.	iP!	Z	06	34	23.8	Dilatation from South West. Also recorded on Omori.
	i(S)Z				42	Felt: Rabaul Int.2-3 (MM) 04°10'S, 152°10'E.
	iP!	Z	06	43	53.9	Dilatation Also recorded on Omori.
	iP!	Z	07	19	33.0	Dilatation
	iP!	Z	13	29	53.0	Dilatation
	i(S)	E		30	06	
	iP	Z	15	27	31	
	eP	Z	20	29	23	
	iP!	Z	23	38	20.6	Compression

Seismograms read by J.H. Herlihy.

J. H. Latter,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul.

Provisional Readings of Rabaul Seismograms for the period 24th May to 30th May, 1962.

24th	iP! i(S)	Z Z/	02	12	01.9 20.9	Dilatation Also recorded on Omori. Felt: Rabaul Int.3-4 (MM) 04°10'S, 152°10'E. Lolobau Int.3-4 (MM) 04°55'S, 151°10'E. Doilene Int.3 (MM) 04°15'S, 151°35'E. Pomio Int.3 (MM) 05°30'S, 151°30'E. Palmalmal Int.2-4 (MM) 05°35'S, 151°30'E.
	iP! i(S)	Z Z/	03	07	11.9 32.9	Dilatation Also recorded on Omori Felt: Rabaul Int.1-2 (MM) 04°10'S, 152°10'E.
	iP	Er	09	00	59.2	
25th	iP i(S)	Z Z/	01	10	21.8 38	Dilatation to South West Also recorded on Omori.
	iP	Z	01	25	13.0	Dilatation
	eP	Er	02	28	40	
	eP	Z	03	06	46	
	eP	Z	05	43	49	
	iP	Z	06	49	49.0	Dilatation Also recorded on Omori
	iP	Z	07	48	31.5	Dilatation Also recorded on Omori
	iP!	Z	09	21	26.2	Dilatation Also recorded on Omori
	iP! i(S)	Z Z/	09	40 41	47.4 04	Dilatation to South West Also recorded on Omori
	iP	Z	10	49	12.3	Dilatation
	iP	Z	10	53	52.2	Dilatation
	e	Z	16	48	40	
	iP i(S)	Z	23	47	15.8 43	
26th	e	Z/	03	26	08 .	
	iP	Z	06	42	12.7	Dilatation Also recorded on Omori
	iP	Z	06	59	54.7	Dilatation
	iP	Z	07	01	46.9	in coda of preceding shock
	iP i(S)	Z Z/	07	28	37.4 55	Dilatation Also recorded on Omori Felt: Pomio Int.3 (MM) 05°30'S, 151°30'E.
	iP	Z	08	13	19.9	Dilatation Also recorded on Omori

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period 31st May to 6th June, 1962.

31st May	iP	Z	06	33	49.0	
	e(S)	E/		38	02	
	e(S)	N			10½	
	eL	Z/		39	31	
	i!	E/		40	07	
	i	E			21½	
	eL	Z/	08	53	(48)	
	e	Z/		56	08	
	iP	Z	12	22	19.2	
	i	Z			22.1	
	e	Er	16	42	(14)	
	iP	Er	17	04	29.2	
	eiP	Z	18	26	10½	
	i	Z			14.8	
	e(S)	E/			24	
	iP!	ZN	20	21	19.3	Dilatation to South
1st June	iP	N	12	46	40.4	
	iS	N		47	01.2	
	iP	Z	13	06	28.6	
	i(S)	N			41	
	iP	Z	19	04	29.5	Dilatation to South East
	iS	Zn			50	
2nd June	e	Er	03	21	28	
	iP	ZE	04	02	41.8	Compression from South West
	iP	Z	05	37	14	
	i(S)	N/		38	57	
	eL	N/		40	(00)	
	iP!	Z Zr	09	19	09.5	(Compression (from East) at Rapindik)
	i!	E/			27	Dilatation to North West Felt: Rabaul Int.1-2 (MM) 4°10'S, 152°10'E.
	iP!	ZE	13	29	20.2	Compression from South West
	iS	E			37.5	
	iP!	Z	14	38	05.4	Compression (from North?) Deep? (Dilatation at Rapindik)
	e(P)	ZrEr	17	22	40½	
	eP	Z/	17	28	02	
	e	N/		34	05	
	iP	Z	21	04	16.4	Dilatation
	iS	N			33½	(Compression at Rapindik)
	iP	Z	21	20	38.2	

3rd June	iP	N	07	40	30½	
	eiP	Z	09	22	12½	
	iP	Z	13	43	41.1	
	i!	Z			42.5	
	eS	N/		44	33	
	eP	Z	15	22	19½	
	iP	Z	15	49	47.4	
	eL	E/	16	16	03	
	iP	Er	17	31	44.4	
	e(P)	Z	17	51	29	
th June	eP	Zr	08	48	31½	
	e	E/		49	(12)	
	iP	Z	22	04	44.9	
	iS	N		05	14½	
	eiP	E	22	58	12½	
5th June	iP	Zr	01	18	40.9	(Dilatation at Rapindik)
	iP!	Z			41.4	Compression from South East
	iS	NE			54	Deep?
	e	E	07	25	(45)	
	e	Z		26	03	
	e	Zr	07	49	(21)	
	eP	Nr	14	30	33½	
	iP	ZrNr	15	45	51.6	
	iS	Nr		46	02.0	
	eP	Z/	16	48	36	
	e	Z/		52	(30)	
	e(S)	E/			38	
6th June	e	Er	00	12	(44)	
	e(P)	Er	00	19	(37)	
	eP	Z	02	30	18½	
	iS	N		31	18.6	
	eS	Z/			(19)	
	eL	N/E/			(55)	
	eP	Er	03	13	37	
	i	Er			39.3	
	eP	Er	04	17	30	
	eL	Z/	18	30½	-	
	iP	Z	19	22	25.6	Compression
	iS	E		23	06.4	

Seismograms read by J.H. Latter.

J.H. Latter,
Vulcanologist.

26th Cont.	iP	Z	09	52	07.3	Dilatation
	i	Z/		53	20	Also recorded on Omori
	iP	Z	12	07	52.4	Dilatation
	iP	Zr	17	05	37.8	
27th	Nil recorded					
28th	e(P)	Zr	02	09	41½	
	eP	Z/	03	09	40	
	i(S)	Z/		10	56	
	e	Z		11	57	
	e	Z/	04	02	12	
	iP	Z	08	58	04.1	
	i(S)				28.2	
	eP	Z	09	37	33	
	iP!	Z	15	16	08.1	Dilatation
	i(S)	Z			17	
	eP	Z	16	11	34	
	e	Z/	16	15	28	
29th	e	Er	08	23	18	
	iP	Nr	11	52	37.5	
	eP	Zr	18	44	01½	
	e	Z/		44	12	
	e	Z/		45	22	
	e	Z/			44	
	e	N/	20	31	45	
30th	eP	Z	00	52	57	
	iP	Z	06	49	44.5	
	e(P)	Z	10	22	32	
	e	Z			41	

Seismograms read by J.H. Herlihy

J. H. Latter,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA

Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
7th June - 13th June 1962

N.B. Confused by microseisms (C.B.M.)

7th June	e	Z	04	13	57
	ip	Nr	07	36	(21) C.B.M.
	i(p)	Z	07	44	55.9
	ip	Z	13	35	55.1 Compression
	i(S)	N		36	11.7
8th June	e(p)	Z	13	28	43
	i	E		29	29
	e(p)	Z	15	20	32
	l	Z		21	34
	e	Z/	19	31	33
9th June	ep	Nr	08	25	27½
	i	Nr			41
	i	Er			49½
	i	Er	10	27	01.5
10th June	ep	Z	14	12	31½
	i	Z			33.7
	i	(S)E			55½
	e	Z/	16	24	18
	ip	Z	16	41	13.7 Compression
	i(S)	Nr			37
	ip	Z	18	18	50.0 Compression from South East
	ep	Z	19	53	41½
	i(S)			54	09
11th June	ip	Z	02	04	23.6
	ip	Z	03	52	58.0
	i(S)	Nr		53	24
	e	Z	07	36	11

11th June contd	ip	Z	11	15	10.9
	i(S)	Z			40
12th June	ip	Z	03	58	11.8
	ep	Z	13	43	55
	i(S)	N	~~13~~	44	10
	e	E	13	49	(30)
	ip	Z	14	46	10.5. Compression
	i(S)	Z			28.5
	e	Z	18	37	(19)
	ip	Z	22	55	06.4
13th June	ip	Z	05	44	24.5
	ip	Z	06	22	21.8
	ip	Z	09	42	42.2

Seismograms read
by J.H.Herlihy

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA & NEW GUINEA
Vulcanological Observatory
Rabaul

Provisional Readings of Rabaul Seismograms for the period
14th June to 20th June
1962

N.B. C.B.M. = Confused by microseisms

14th June	eP	Z/	08	02	06	
	e	Z/		10	16	
	e	N/		11	25	
	iP	Z/	22	21	44.3	
	e	Z/		27	44	
	e	Z/		32	49	
15th June	iP	Z	06	28	01	
	e(P)	Z	06	53	10½	
	e	Z/	07	32	38	
	e	Pz	20	47	51	
	i(S)	N		48	21	
16th June	eP	Z	01	49	12	
	i(S)	N			36½	
	iP	Z	02	00	24.0	
	i(S)	N			49	
	iP	Z	03	20	01.8	
	i(S)	Z/			20.4	

Felt : Palmalmal
05°35'S, 151°30'E

	eP	Z	03	45	10	
	i(S)				40	
	e(P)	Er	04	07	24	
	e	Er	05	28	47	C.B.M.
	e	Z/	05	39	46	
	e P	Er	06	32	53½	
17th June	e	Z/	17	58	21	
	eP	Z	13	25	49½	
	e	N/		28	26	
18th June	e(P)	Er	03	18	(44½0	C.B.M.
	iP	Er	05	19	43½	C.B.M.
	iP'	Z	08	10	58.6	
	iP	Z	08	47	(24½0	
	e(S)	Z/			47½	
	iP	Z	09	60	49.7	
	e(S)	Z/		01	11½	
	iP'	Z	23	42	56.9	Compression

Also recorded on Omori (s-P approx. 13.2 seconds

						Felt: Kambubu Int 5-6 (mm) 04o35'S, 152o25'E Pomio Int 5(mm) 05o30'S,151o30'E Palmalmal Int 4-5(mm) 05o35's, 151o30'E Doilene Int 4(mm) 04015'S, 151o35'E Karlai Int 4 (mm) 05o05's, 152oo0'E Kareola Int 4 (mm) 05o10's, 154o35'E Rabaul Int 3(mm) 04o10'S, 152o10'E
19th June	iP	Z	01	44	(53)	C.B.M.
	iP' i(S)	Z/ Z/	03	32	23.2 51	Compression Also recorded on Omori Felt Rabaul Int 2(mm) 04o10's,152o10'E
20th June	eP i(S)	Z Z	11	16	14½ 42	
	eP i	Z Z	12	36 36	59 51	
	iP	Z	13	13	05	
	eP	Z	19	17	12½	
	eP	Z	21	31	33	

Seismograms read by J. . Herlihy

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY
RABAUL

Provisional readings of Rabaul Seismograms for the period
21st June - 27th June

N.B. C.B.M. Confused by Microseisms

21st June	iP	Z	04	15	34.1
	i	Er			55
	i(P)	Er	11	20	11.0
	eP	Z	16	46	26½
	e(S)			47	39
	e	Z	22	57	50
	i(P)	Er	23	40	24.6
22nd June	eP	Z	10	11	46
	i(S)	E		12	23½
	eP	Z	14	57	07
	i!				07.3
	e(S)	Z/		58	39

Felt Lae Int 5 (mm) 06°45'S, 147°00E
Wau Int. 5 (mm) 07°20'S, 146°45'E
Bulolo Int.5(mm) 07°10's, 146°40'E

	iP	Z	15	07	04.1
	i(S)	E			58
23rd June	iP	Z	00	33	18.2
	i(S)	Er			41½
	eP	Z/	09	51	52 Dilatation to North North West
	e	Z/		57	20
	e(S)	Z/	10	02	12
	e	Z/		16	28
	e	Z/	19	51	42
24th June	e(P)	Z/	01	31	08
	e	Z/	01	45	(34)
	iP	Z	03	03	(23) C.B.M.
	e	Z/		05	06

Felt Lae Int. 4-5 (mm) 06°45'S, 147°00'E
Kaiapit Int 3(mm) 06°15'S, 146°15E

	iP	Z	03	37	53
	e	Z/		38	14
25th June	eP	Er	09	36	28
	i(S)	Er		37	28.3
	eP	Er	11	18	00½ Dilatation from North North West (S-P = 06'08' (?)
	iP	Nr	11	58	48.0
	i(S)	Er		59	08

26th June	eP	Er	08	00	44	
	eP	Nr	08	06	53	
	i	Nr			54.3	
	i(P)	Er	08	44	(55½)	C.B.M.
	iP	Er	09	55	27.0	
	eP	Nr	12	11	31½	
	eP	Er	12	28	27½	
	i	Er			52½	
	eP	Nr	13	56	23	
	eP	Er	19	08	58	
	iP	Er	21	37	(27)	C.B.M.
	iP	Nr	23	28	(32)	C.B.M.
27th June	iP	Er	03	30	(55.3)	C.B.M.
			Felt	Kandrian Int 4(mm) 06o15'S,149o35E		
	iP	Er	12	22	06.7	
	i	Nr			18.0	
	eP	Nr	15	44	32	
	EP	Nr	18	04	13½	
	~~i~~	~~Nr~~	~~18~~	~~04~~	~~13½~~	error
	i	Nr			21½	
	iP	Nr	18	07	48.7	In coda of preceding shock
	iP	Nr	19	10	35.5	

Seismograms read by J.H. Herlihy

J.H. Herlihy
A/Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY
RABAUL

Provisional readings of Rabaul Seismograms for the period 28th June to 11th July. 1962

28th June	iP	Er	00	50	00.4
	eP	Nr	09	50	30½
	iP!	Nr	10	20	38.9
					Also recorded on Omori.
					Felt : Lolobau Int 6(mm)
					04o55's,151o10E
					Rabaul Int 2(mm)
					04o10's,152o10E
	eP	Er	11	22	13½
					Also recorded on Omori
	iP	Nr	13	16	33.6
	eP	Er	16	57	29
	iP	Nr	17	34	53.4
	eP	Nr	18	56	18
29th June	e	Nr	13	55	(05)
	eP	Nr	22	53	(32) C.B.M.
30th June	iP	Z	02	14	(56) C.T.M.
	e	Er	19	36	54
1st July	eP	Zr	01	30	28
	e	Zr		47	43
	eP	Er	01	56	40
	iP	Nr	14	34	30.2
2nd July	eP	Nr	08	36	12
	i	Nr			15
	e	Er	15	48	20½
	eP	Nr	15	51	29½ C.B.M
3rd July	eP	Nr	17	01	(07) C.B.M.
	iP	Zr	17	18	07.7 Dilatation
4th July	Nil Recorded				
5th July	Nil Recorded				
6th July	iP	Nr	23	17	(50) C.B.M
	e	Nr		28	(03½)
7th July	eP	Er	09	45	46
8th July	eP	Er	16	38	54½
9th July	eP	Er	15	09	09

10th July	iP	Er	00	54	(49)
	no record from 0400 hours				
11th July	e	Z	07	27	10
	eP	Z	12	47	14
	iP	Nr	17	54	55.2

Seismograms read by J.H. Herlihy

J.H.Herlihy
A/Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY
RABAUL

Provisional readings of Rabaul Seismograms for the period
12th July - 18th July
1962

N.B. C.B.M. - Confused by Microseisms

12th July	iP	Er	01	48	57.6
	eP	Er	11	59	56
	iP	Er	12	59	17.2
13th July	e(P)	Er	03	38	39
14th July	Nil recorded				
15th July	Nil recorded				
16th July	e	Er	02	13	42
	e	Er	09	29	(51½)C.B.M.
17th July	iP!	Zr	10	04	58.1

Also recorded on Omori
Felt: Rabaul Int 2(mm)
04° 10'S, 152° 10E.

e	e	Zr	23	13	(30)
18th July	No record from 2300 hours				
	iP!	Zr	01	21	16.8

Also recorded on Omori
Felt: Rabaul Int.3-4 (mm)
04°10'S, 152°10'E.

Seismograms read by J.H.Herlihy

J.H.Herlihy
A/Vulcanologist

FOLD FLAPS BEFORE MOISTENING ADHESIVE

AEROGRAMME

By Air Mail · Par Avion

RABAUL
4 30PM
20 JUL
1962
T.P.&N.G.

PAPUA & NEW GUINEA

10t. AEROGRAMME 10t.

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International Seismological Summary

Kew Observatory

Richmond

SURREY ENGLAND

FIRST FOLD HERE

SECOND FOLD HERE

SENDER'S NAME AND ADDRESS.

NO TAPE OR STICKER MAY BE ATTACHED.

IF ANYTHING IS ENCLOSED AEROGRAMME WILL BE SENT BY ORDINARY MAIL.

SLIT HERE

Provisional Readings of Rabaul Seismograms for the period
19th July to 26th July, 1962

19th Jul.	No records to 0718 hours.					
	iP	Zr	08	30	57.2	
	iP	Zr	09	25	38.9	
	i	Zr			45.8	
	eP	Zr	15	33	50	
20th Jul.	eP	Zr	12	37	26	
	eP	Er	22	00	29½	
	iP	Er	23	03	37	
21st Jul.	eP	Zr	00	08	46½	
	iP!	Z	02	55	58.9	Compression.
22nd Jul.	iP!	Z	00	21	59.2	Also recorded on Omori.
	eP	Z	00	45	(59)	
	eP	Z	00	54	05½	
	iP	Z	01	11	51.0	Compression.
	eP	Z	02	20	42	
	eP	Z	03	30	11½	
	iP	Z	03	56	54.0	Dilatation.
	i!	Z			56.0	
	i(S)	Z/		57	11.5	
	iP	Z	09	26	32.7	Dilatation.
	i(S)	Z/		27	02.7	
	eP	Zr	13	38	51½	
	i(S)	Nr		40	19.8	
	iP!	Z	17	10	10.7	Dilatation to South East.
	i(S)	Z/			26.5	Also recorded on Omori.
						Felt: Rabaul, Int. 3 (M.M.) 04°10'S, 152°10'E
	iP!	Z	21	23	30.0	Dilatation.
	eP	Z	23	51	02.6	
23rd Jul.	iP	Zr	01	33	08.7	
	i	Nr			30.2	
	iP	Z	06	02	19.1	
	i(S)	Z			38.0	
	eP	Zr	06	08	16½	
	i	Er			33.3	
	iP	Z	06	49	42.5	
	eP	Z	08	56	55	
	iP	Z	11	42	22.9	Compression.
	iP	Z	12	54	13.9	

23rd Jul. cont..	iP	Z	14	20	22.7	Compression.
	i(S)	N			51.7	
	eP	Z	17	55	49	
	e	Z	18	41	30	
	eP	Er	18	50	06	
	i	Er			07.2	
	i	Er			15.6	
24th Jul.	iP	Z	03	27	12.2	
	i(S)	N			32.5	
25th Jul.	iP	Z	04	46	40.5	
	i(S)	Z			(56)	
	eP	Z	05	48	33	
	eP	Z	06	50	(22½)	
	iP!	Z	07	03	35.4	Dilatation.
26th Jul.	eP	Z	03	05	35	
	i(S)	Z			46	
	eP	Z	03	17	(05)	
	iP	Z	04	41	38.8	
	i(S)	E		42	09	
	iP!	Z	05	02	41.2	Dilatation.
	i(S)	Z/			51.6	Also recorded on Omori.
	iP	Z	07	01	30.2	Dilatation.
	i(S)	Z/			41	Also recorded on Omori.
	e(PKP)	Z/	08	33	52	
	iP!	Z	17	10	40.8	Dilatation.
	i(S)	E		11	09½	
	iP	Z	19	17	59.0	Dilatation.
	iS	N		18	17.5	
	eP	Z	20	17	47½	
	i(S)	E		18	15	
	eP	Er	20	29	13½	
	i(S)	Er			29	

Seismograms read by J.H. Merlihy

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
27th July to 1st August, 1962

27th Jul.	iP	Nr	13	57	39.0	
	i	Nr			50.0	
28th Jul	Nil Recorded.					
29th Jul.	eP	Nr	12	37	06	
	i(S)	E			24	
30th Jul.	iP	Nr	05	38	00.0	
	i(S)	Nr			21½	
	eP	Zr	17	18	49	
	i(S)	E		20	21	**Felt:** Wewak, Int. 6 (M.M.) 03°35'S, 143°40'E Kairiru, Int. 6 (M.M.) 03°20'S, 143°35'E Maprik, Int. 5 (M.M.) 03°40'S, 143°05'E Ambunti, Int. 5 (M.M.) 04°15'S, 142°50'E Yangoru, Int. 5 (M.M.) 03°40'S, 143°20'E Palmalmal, Int.4-5 (M.M.) 05°35'S, 151°30'E Angoram, Int. 4-5 (M.M.) 04°05'S, 144°05'E Manam Is. Int. 3 (M.M.) 04°05'S, 145°05'E Alisgon Is., Int. 2 (M.M.) 01°15'S, 143°35'E
	e	Er	17	41	53½	in coda of preceding shock.
	e	Er	20	38	00½	
31st Jul.	e	Zr	02	21	(25)	
1st Aug.	eP	Zr	04	39	02	**Felt:** Wewak, Int. 6 (M.M.) 03°35'S, 143°40'E Kairiru Is. Int. 6 (M.M.) 03°20'S, 143°35'E Yangoru, Int. 5 (M.M.) 03°40'S, 143°20'E Angoram, Int. 5 (M.M.) 04°05'S, 143°35'E Maprik, Int. 4 (M.M.) 03°40'S, 143°05'E Mt. Hagen, Int. 3-4 (M.M.) 05°50'S, 144°15'E Aitape, Int. 3 (M.M.) 03°10'S, 142°20'E Manam Is. Int. 2 (M.M.) 04°05'S, 145°05'E
	e(P)	Er	08	11	(52)	
	iP!	Zr	10	32	59	
	i(S)	Zr		33	13	**Felt:** Rabaul, Int.1-2 (M.M.) 04°10'S, 152°10'E
	eP	Zr	23	20	45½	

Seismograms read by J.H. Herlihy

J.H. Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
2nd August to 8th August, 1962

N.B. Standard World-Wide Seismographs not recording.
C.B.M. Confused by microseisms

2nd August.	e(P)	Er	00	39	(29½)	
	e(P)	Zr	07	30	54	
	eP	Zr	13	16	03½	
	i	Zr			06.8	
	i(S)	Zr			38½	
	iP!	Zr	13	26	52.8	Also recorded on Omori Felt: Rabaul Int 3(MM) 04°10'S, 152°10'E Doilene Int 4 (MM) 04°15'S, 151°35'E
	eP	Nr	15	59	04½	
	i(S)	Nr			19½	
	iP!	Zr	18	16	24.5	
	i(S)	Nr			41.8	
3rd August	i(P)	Er	09	15	18.7	
	e	Er			30½	
	e	Er			34½	
	e	Er			50½	
	e(P)	Zr	10	07	29	C.B.M.
	eP	Zr	22	28	26½	
	i	Zr			57½	
4th August	iP	Er	03	08	37	
	iP	Er	04	08	41.8	
	iP	Zr	05	56	52.8	
	iP	Zr	08	58	05.2	
	i)S)	Zr			(14½)	
5thAugust	Nil Recorded					
6th August	eP	Er	19	23	(40)	C.B.M.
7th August	iP	Er	00	25	58½	C.B.M.
	iP	Er	00	37	04½	C.B.M
	iP	Er	01	56	51	C.B.M.
	iP	Er	02	31	11	C.B.M.
	eP	Zr	18	50	25	

7th.August	iP	Zr	20	37	06.0
	eP	Zr	21	38	35½
	i(P)	Zr	23	52	(55) C.B.M.
8th August	eP	Zr	13	39	)40)
	iP	Nr	14	14	25.3

Seismograms read by
J.H. Herlihy

J.H.Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
Volcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period 9th August to 15th August.

N.B. The Standard World-Wide Seismographs were not operating until 11th August.
C.B.M. = Confused by Microseisms
C.Y.M. = Confused by Time Breaks

9th August	Nil recorded					
10th August	iP	Zr	20	50	24.0	
11th August	iP	Z	01	53	20.0)	
	i	Z		58	37.0)	One shock
	e	Z	02	02	41	
	iP	Z	05	44	59.1	
	i(S)	N		45	19	
	e	Z/	06	54	(20)?	
	e	Z/		55	53	
	e	Z/	07	00	26	
	e	Z/		05	06	
	eL	Z/		09	10	
	iP	Z	08	23	10.9	
	i	Z			40.0	
	e	Z		28	46	
	e	Z		30	09	
	iP	Z	12	01	01.9	
	i(S)	N			25	
	eP	Z	14	36	40½	
	i(S)	N		37	04½	
	iP	Z	18	17	33.7	
	iP!	Z	20	24	34.2	Compression
	i	Z			37½	
	i	Z			48	
	i(S)	N		25	04	
12th August	iP	Z	09	48	15½	C.B.M.
	i(S)	Z			(45)	
	iP	Z6	16	04	23½	C.B.M.
	iP!	Z	20	52	19.8	Compression
13th August	e	Z/	07	22	06?	
	e	Z/		28	42	
	e	Z/		32	34	
	iP	Z	12	23	31.2	Dilatation
	i(S)	N			42	

14th August	eP	Z/	01	19	15
	e	Z/		25	54
	iP	Z	05	15	02 C.T.M.
15th August	iP	Z	03	15	38.5
	e	Z/	08	42	48

Seismograms read by
J.H.Herlihy

J.H.Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period 23rd August to 29th August, 1962

N.B. C.B.M.= Confused by Microseisms

23rd August.	iP!	Z	06	57	22.2	Compression
	i(S)	Z/			41	
	e	Z/	20	09	19	
24th August	e	Z/	04	06	32	
	e	Z/	06	52	55	
	e	Z/	06	58	16	
	e	Z/	07	00	28	
	e(P)	Z/	09	11	16	
	e	Z/		12	38	
	e	Z/		17	12	
	e	Z/		19	37	
	e	Z/		22	58	
	e	Z/		28	04	
25th August	e	Z/	05	09	50	
	iP	Z/	08	37	36½	Dilatation to
	e	Z/		40	00½	South East.
	e	Z/		41	32½	
	e	Z/		45	16	
	e	Z/	11	24	30½	
26th August.	e(P)	Z/	06	56	36½	
	e	Z/	07	02	35½	
	e	Z/		07	35½	
	eP	Z/	23	33	25½	
	e	Z/		35	45½	
	e	Z/		36	51½	
27th August.	iP	Z	06	00	(12½)	C.B.M.
	iP	Z	07	03	(37)	C.B.M.
	iP!	Z	10	49	19.9	
	iP	Z	11	13	32.7	
	iS	Z			58½	
	e	Z	15	25	(23)	
	e	Z/	16	39	39	

27th August. contd.	iP	Z	21	59	40.0
	iP	Z	23	29	35.1

Felt@ Walindi int 3(MM)
05°25'S.150°1'E.

28th August.	e	Z/	08	31	45½
	e(P)	Z	11	20	21
	e	Z		29	04

29th August. (Times approximate, System broke down before time check).

	iP	Z	03	49	34.0
	e	Z/	22	44	(12)?
	e	Z/		55	32

Seismograms read by
J.H.Herlihy

J.H.Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
Volcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
24th August to 5th Sept. 1962

N.B. World-Wide Standard Seismographs not operating until 0755 hours on 1st.Sept.

30th August.	eP	Zr	00	30	07½
	eP	Zr	04	01	27
	iP	Zr	12	49	56.2
31st August	eP	Zr	03	04	41½
	eP	Zr	13	16	30
	e	Zr	17	12	50
1st. Sept.	eP	Zr	02	30	56
	eP	Zr	04	56	22½
	e	Z/	08	01	12
	e	Z/		09	26
	e	Z/		15	40
	eP	Z		16	36
	i	(s)N	10	48	52
				49	20½
	e(P)	Z/	19	34	34
	e	Z/		38	00
	e	Z/		46	52
	e	Z/			14
	e	Z/	19	50	48
	e	Z/	19	58	23
	e P	Z	21	30	57½
	eP	Z	21	57	25½
2nd Sept.	iP	Z			31.5 Dilatation
	i(s)	N	07	28	56½
	e	Z	07	51	36
	e	Z	07	55	56
	e(P)	Z/	15	28	19
	e	Z/		33	30
	e	Z/		41	34
	iP	Z		03	53.2
	i(s)	E	20	04	16.2
3rd.Sept	e	N/	20	35	48
	iP	Z			
4th Sept.	i(s)	Z	07	22	10.2
	iP	Z	02	48	26
					27.3

4th Sept. contd.	i(S)	N			59
	iP i(S)	Z E	13	32	01.3 Dilatation 19½
	eP	Z	19	32	51½ C.B.M.
5th Sept.	eP	Z	04	21	48
	eP	Z	04	45	52½
	eP	Z	08	25	11½
	eP	Z	11	19	58
	iP	Z	13	26	18.2

Seismograms read by

J.H.Moriby.....

J.H.Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY RABAUL

Provisional Readings of Rabaul Seismograms for the period 6th Sept. to 12th Sept. 1962

6th Sept.	iP	Z	02	42	12.0	
	i(S)	N			29.5	
	iP	Z	04	31	52.2	C.B.M.
	e(P)	Z/	11	16	19½	
	e	Z/		20	55	
	e	Z/		24	05	
	iP	Z	15	04	56.2	C/B/M
	i(S)	Z		06	24	
7th.Sept.	iP	Z	07	46	33.1	
	e	Z/		58	22	
	iP	Z	12	39	19.4	Compression
	i(S)	N			46	
	iP	Z	23	54	(04½)	C.B.M.
8th Sept.	e(P)	Z	13	23	06½	
9th Sept.	eP	Z	09	30	21	
	iP	Z	12	04	30.7	Dilatation
	i(S)	N			48½	
	iP	Z	19	55	50.7	Dilatation
10th Sept.	eP	N	01	08	11	C.B.M.
	i	N			37½	
	i	S			36	
	eP	N	04	33	47½	C.B.M.
	i (S)	N		34	07	
	e(P)	Z/	15	49	41	
	e	Z/		51	19	
	e	Z/		52	25	
	e(S)	N/		54	12	
	e	Z	15	58	55½	
	e	Z/	17	52	47	
	e	Z/	18	06	44	
11th Sept.	iP	N	00	34	04.2	
					Felt:	Malindi Int.3(mm) 05°25.S, 150°05E
	e	Z/	17	57	51(?)	
	eP	N	22	31	09	
	i(S)	N			35	

12th Sept.	eP	Z/	18	20	21
	eS	N/		21	52

Felt: Bogia Int.4 (mm) 04°15'S, 144°[illegible] 55·E
Manam Is. Int.3 (MM) 04°05'S, 145°05'E

e	Z/	21	09	40
e	Z/		20	02
iP	N	22	23	44
i(S)	N			51½

Seismograms read by
J.H.Herlihy

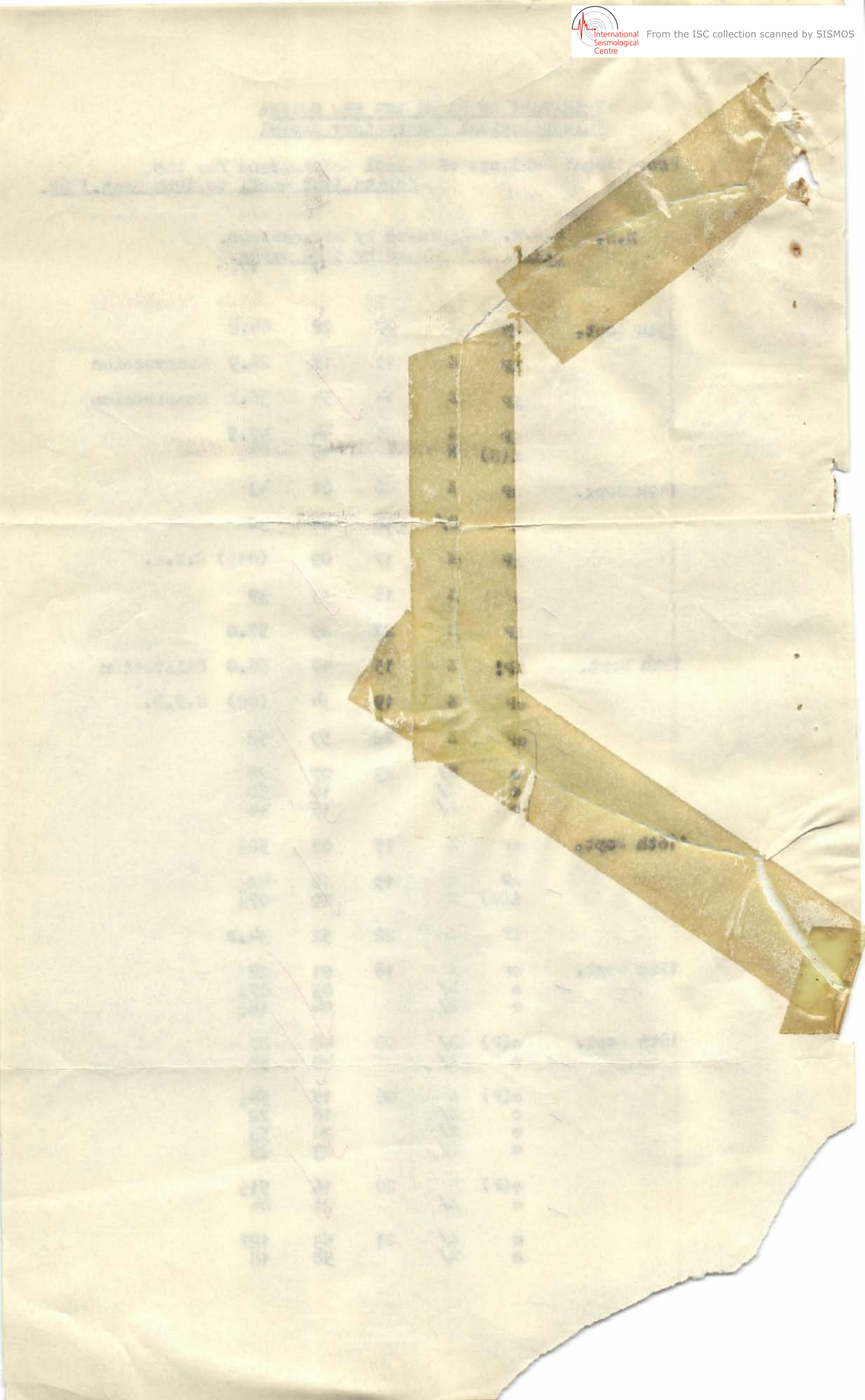
J.H.Latter
Vulcanologist

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the Period 13th Sept. to 19th Sept.1962.

N.R. = S.M. = Confused by microseisms.
= T.F. = Confused by time marks.

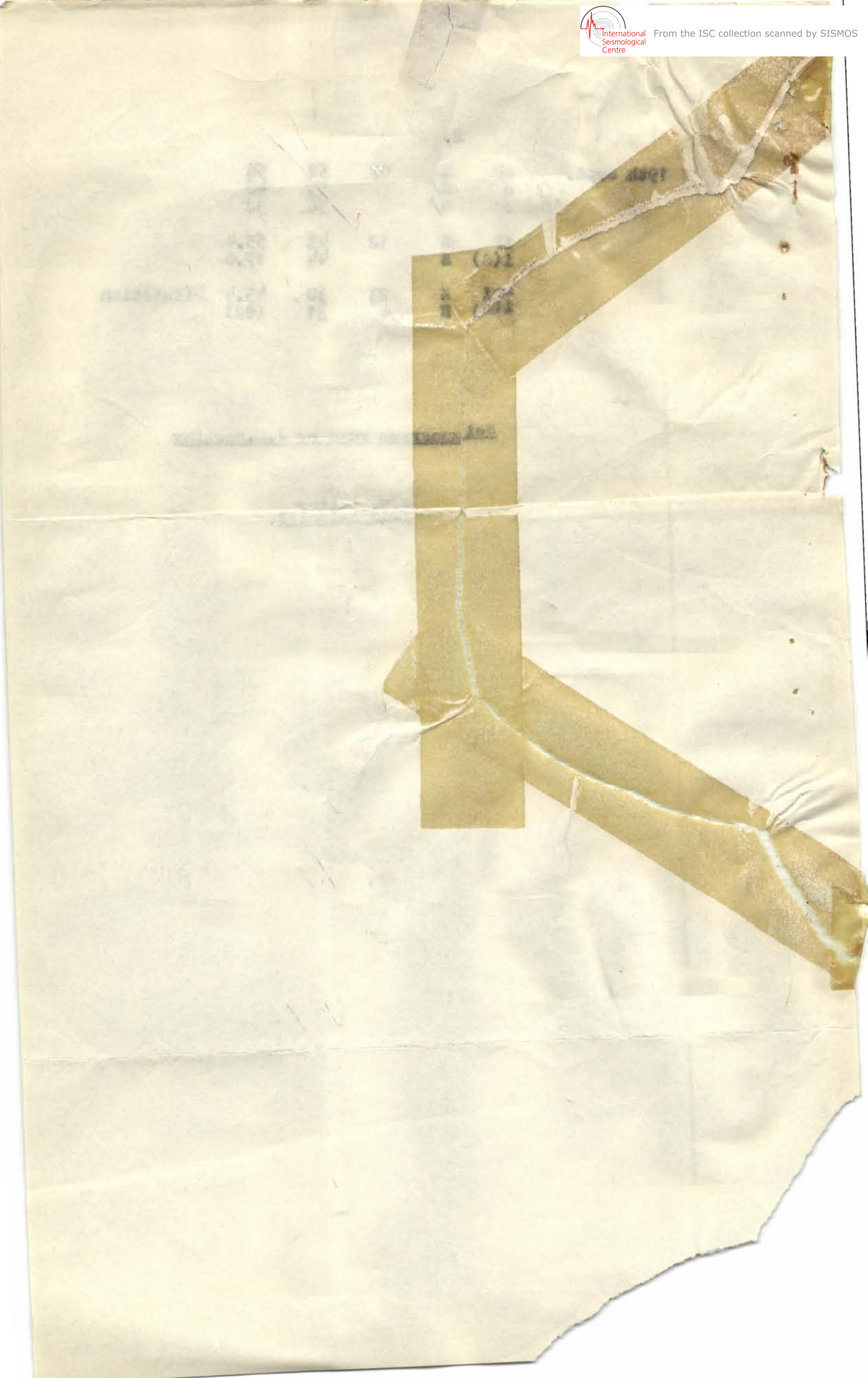
13th Sept.	iP	Z	07	22	04.0	
	iP	Z	11	15	26.9	Compression
	iP	Z	14	54	36.2	Compression
	iP	Z	21	44	47.5	
	i(S)	N		45	08½	
14th Sept.	eP	Z	00	01	43	
	e	Z/	16	04	30	
	iP	Z	17	09	(01½)	C.T.H.
	e	Z	18	33	39	
	iP	Z	22	29	57.0	
15th Sept.	iP	Z	15	47	56.0	Dilatation
	eP	Z	19	34	(00)	C.T.H.
	eP	Z	22	59	58	
	e	Z/	23	07	28	
	e	Z/		10	58	
	e	Z/		15	44	
16th Sept.	eP	Z	15	02	50½	
	eP	Z	19	18	42½	
	i(S)	N		19	07½	
	iP	Z	22	52	34.2	
17th Sept.	eP	Z	18	01	28	
	e	Z/		03	07½	
	e	Z/		04	18½	
18th Sept.	e(P)	Z/	00	48	07	
	e	Z/		49	54	
	e(P)	Z	06	15	56½	
	e	Z/		16	22	
	e	Z/		20	53	
	e	Z/		23	25	
	e(P)	Z	20	16	51½	
	e	Z/		21	04	
	e	Z/	21	53	12?	
	e	Z/		58	18	



19th Sept.	eP	Z	07	52	56	
	e	E/		53	48	
	e	E/		56	32	
	iP	Z	12	43	55.4	
	I(e)	E		44	17.6	
	[illegible]	Z	23	30	45.4	Dilatation
	I([illegible]	N		31	(02)	

Seismograms read by J.H.Hartley

J.H. Hatter
Assistant.



TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
20th Sept. to 26th.Sept. 1962

Z,N,E, Short Period Benioff Seismometers at the Observatory.
Z/,N/,E/, Long Period Sprengnether Seismometers at the Observatory.
Zr,Nr,Er, Short Period Benioff Seismometers at Rapindik Station.

20th Sept.	iP	Z	04	22	28.3	
	i(S)	N		23	09	
	eiP	Z	09	57	32	
	e	E			54	
	eiP	Z	10	13	38	
	i(S)	E		14	29	
	iP	Z	13	52	58.9	
	eP	Z	16	41	24½	
	i(S)	Z		42	20.4	
	i(S)	E			20.8	
	e	N/		43	49	
	eL	Z/		44	(28)	
	eP	Z	18	10	04½	
21st.Sept.	eP	Z	18	55	27½	
	iP	Zr			28.6	
	i!	NE			54½	
	i!(P)	Zr	18	56	40.5	?Compression from South East
	i!(P)	Z			40.6	Dilatation to South East.
	iP	Z,Zr	21	07	11.6	Dilatation to South at Ob-
	I!(S)	E			24.9	servatory.
	eiP	Zr	23	51	16	
	iP	Z			22.0	
	i(S)	E			38½	
22nd.Sept.	iP	Zr	01	51	45.4	Dilatation
	iP	Z			45.6	Dilatation
	iS	Zr		52	04	
	e	Zr	07	01	(38½)	
	eP	Z/			48	
	eS	E/		10	14	
	LMax	Z/		22	40	
	iP	Z	09	56	16.0	
	iP	Zr,Nr			17.0	Dilatation to North East
	iP!	Zr	12	02	47.7	Compression from North-(West?)
	iP!	Z,N			47.8	Dilatation to North West.
	i(S)	N		03	05	

22nd September Contd.	eiP	Nr	12	41	57	
	iS	Er		42	13	
	iP	Z	15	01	47.3	
	i	E			55½	
	eP	Z/	15	15	41	
	e	N/		21	43	
	eL	N/		27	22	
	eP	Z	16	08	08½	
	i	Zr	20	02	07.2	
23rd. September	iP	Z	06	29	09.1	
	iS	N			52.5	
	iP!	Zr,Nr	07	02	01.3	Compression from South-West.
	iP!	ZNE			01.6	Dilatation to South-East

Also recorded on Omori
Felt Gavit Int 4 (MM) 4°10'S. 151°40'E
Felt Karlai Int. 3 (MM) 5°05'S 152°00'E
Felt Kabaul Int. 2(MM) 4°10'S 152°10'E

eP	Z,Zr	21	37	45	
iS	N		38	05.5	
24th September eP	Z/	04	25	11	
eP	Z,Zr			12	
e(P)	Z/	05	34	(23)	
e	Z/		39	07	
iP	Z	09	16	52.1	
iS	E		17	13	
eP	Zr	09	19	(20)	
iP	Z			20.1	
iP	Z	14	02	06½	
iP	Zr			06.6	
iS	N			38½	
eP	Z	14	46	53½	
e(S)	Z/		53	40	
eS	N/E/			43	
eL	Z/	15	00	(17)	
eiP	Zr	17	55	47½	
25th September eP	Z	00	33	34	
iP	Z,Z/,Zr	14	54	26	
e	Z/		58	15	
eP	Zr,Nr	16	31	(02)	

26th September	e(PKP)	E/	05	33	10
	e(PKP)	Z/	13	02	46
	e	E/		03	12
	e(P)	Z	13	29	23
	eP	Zr	17	22	46

Seismograms read by J.H.Latter

J.H.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
22th Sept. to 3rd. Oct. 1962

Z,N,E Short Period Benioff Seismometers at Observatory.
Z/N/E/ Long Period Sprengnether Seismometers at Observatory
ZrNrEr Short Period Benioff Seismometers at Rapindik.

27th Sept.	eL	Z/	08	49.0	-	
	eL	Z/N/	13	26.0	-	
	eP	Zr	17	46	20	
	iP!	Z	18	27	02.4	Confused by Time Mark
	iP!	Zr			02.9	Dilatation to North-North-West on Long Period Seismometers at Observatory.
	Also recorded on Omori.					
	Felt: Doilene Int 3 (MM) 4°15'S. 151°35'E.					
	iP	Z	18	37	08.7	Dilatation
	iP	Zr			09.9	
	eP	Nr	19	18	31	
	iP	Z	21	09	49.9	
	eiP	Zr	21	59	51.4	
28th Sept.	iP	Z	05	52	30.6	
	iP	Zr			32.0	
	iS	Zr		53	00.7	
	iS	N			01.2	
	e(P)	ZN	19	15	08	
	e(P)	Z/E/	19	18	24	
	eL	Z/	19	57	12	
	eiP	Zr	22	18	31	Confused by microseisms
	iP	Zr	23	59	25.1	Confused by Microseisms
	iP!	Z			25.7	Compression
29th Sept.						
	eP	Z	03	33	33	
	e	Z/		35	04	
	eP	E	15	35	46	
	eP	ZrEr	15	36	02	
	eP	ZZ/ZrEr	15	38	12	
	i(P)	Z	15	38	36.2	
	i(P)	Zr			36.6	
	i	Z/			38	
	e	E		41	35	
	iS	N/E/			42	

30th Sept.	e(P)	Z/	06	51	20	
	iP!	ZN	10	48	32.0	Dilatation to South East
	iP!	Zr			32.2	Compression from North West

Also recorded on Omori (? 19 seconds S-P)
Felt: Doilene Int. 5(MM) 4°15'S. 151°35'E.
Rabaul Int. 3(MM) 4°10'S. 152°10'E.
Karlai Int. 3(MM) 5°05'S. 152°00'E.

iP!	Z,N,E,Zr	10	58	34.1	Dilatation to South East (Compression from South East at Rapindik)

Also recorded on Omori.
Felt: Doilene Int 2 (MM) 4°15'S. 151°35'E.
Rabaul Int.2 (MM) 4°10'S. 152°10'E.
Karlai Int.2 (MM) 5°05'S. 152°00'E.

iP	Zr	11	10	42.4	
iP	Z			42.6	Dilatation
iP	Z	13	24	14.6	Dilatation
iP	ZrEr			14.7	Compression from South
iS	Z			30	East
i	E/			31	
iP	Zr	13	31	19.3	
iP	Z	15	10	46.3	Compression
iP	Zr	17	53	10.7	
iP!	ZZr	17	54	33.3	Compression(Z) Dilatation (Zr)
eiP	ZrNr	18	18	02.7	
e(P)	Z/	22	10	(34)	
e(S)	Z/		15	11	
Oct. 1st. iP	Z	04	02	27.2	
e	Z		06	35	
eP	Z/E/	10	01	30	
eiP	Z			30.1	
eS	N/E/		05	08	
iP	Zr	10	42	58.7	
iP!	ZNE	15	07	45.2	Compression from South
iP!	Zr			45.6	Dila tation to South East

Also recorded on Omori
Felt: Karlai Int.3 (MM) 5°05'S. 152°00'E.

eiP	Zr	20	35	18	
i	Zr			30.6	
eL	E/	20	57	50	

Oct. 2nd.	eL	Z/	20	04	22
Oct. 3rd.	eP	Zr	11	25	25
	iP	Z	11	59	10.7
	iP	Z	17	18	29.2

Seismograms read by J.H.Latter

J.H Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
4th. Oct. to 10th. Oct. 1962

Z,N,E Short Period Benioff Seismometers at Observatory.
Z/N/E/ Long Period Sprengnether Seismometers at Observatory.
ZrNrEr Short Period Benioff Seismometers at Rapindik.

4th. Oct.	iP!	Zr	03	33	00.0	Compression
	iP!	Z			00.4	Dilatation
	i(S)	N/			15½	
	i(P)!	Zr	03	34	19.5	Compression
	iP	Zr	07	30	09.5	
	iP	Zr	07	46	31.5	
	eiP	Er	09	01	18½	Volcanic tremor on
		all instruments until 0914½				
	e(P)	Zr	09	19	(43)	
	(iP!	Z	14	33	39.5	Dilatation to South-South-East
	(iP!	Zr			39.8	Compression from South
	(iS	Z/N/			55	
	iP!	Z	20	35	00.2	Dilatation to South(West)
	iP	Zr			00.6	Compression(from South-East)
	i!(S)	Z/N/E/			15½	
		(also recorded on Omori)				
	Felt.	Karlai Int.3 (M.M.)			5°05'S.	152°00'E.
		Pomio Int.3 (M.M.)			5°30'S.	151°30'E.
		Doilene Int.3(M.M.)			4°15'S.	151°35'E.
		Rabaul Int.2(M.M.)			4°10'S.	152°10'E.
Oct. 5th.	iP!	Zr	07	06	36.7	Dilatation to South
	iP!	Z			37.0	Dilatation (toSouth).
	i(S)	Z/			52	
	iP	Z	07	10	42.6	
	i(P)	Z	10	43	38.8	
	iP	ZZr	10	50	41.8	Dilatation at Observatory Compression at Rapindik
	i(S)	N			58.3	
	i(S)	Nr		52	00.1	
	eL	Z/	13	08	36	
	iP	Zr	14	11	36.0	
	iP!	Z			36.5	Dilatation(to North-West?) Deep?
	iP	Zr	17	07	06.7	Dilatation
	iS	Nr			26	

Oct. 6th.	iP	Z/	04	27	56	Dilatation to South-
	eiP	Nr		28	05½	East
	iL	N/		31	40	
	e(P)	Z/	07	24	(12)	
	eP	Z/	08	00	(54)	
	i(S)	N/		04	36	
	eP	Nr	08	08	15½	
	e(P)	Z/	11	07	(37)	
	e(P)	Z/	12	07	(11)	
	e(P)	Z/	18	05	(14)	
	e	Z/		09	35	
	iP	Z/	23	36	03	
	i(S)	E/		39	49	
Oct. 7th.	i(P)	Z	00	53	41.1	
	e	Z/		57	05	
	iP	Zr	12	37	26.5	
	iP	Z			27.2	Dilatation to South.
	eP	Z	16	51	58	
	eP	Zr		52	(02½)	
	e	Z/		55	(52)	
	e(P)	Z	16	56	53	
	e(P)	Zr			56½	
Oct. 8th.	(eiP	Zr	08	00	53½	
	(i!				54.4	Dilatation to North
	(					West?
	(iP!	ZN			54.9	Dilatation to South
	(iS	Z		01	04	West.
	eP	Z	13	25	10	
	eP	Z	18	57	20	
	eP	Zr	22	03	(58)	
	iP	Z		04	04.9	
	e	N/		09	04	
	i(S)	Z/		10	20½	
	e	Z			(35½)	
	e(P)	Z	22	31	44½	
Oct. 9th.	e	Z/	03	22	(36)	
	iP	Z	20	15	31.9	Dilatation to North
	iP	Zr			32.3	West.
	i	Zr			33.2	
	e(P)	Z	23	08	16	
	eP	Z/			(35)	

Oct. 10th.	eP	ZZ/	02	16	49	
	iS	N/		17	20	
	eP	ZZ/	06	22	38	
	iS	E/		23	09½	
	e	Z			25	
	iP!	Z	14	17	13.4	Compression Deep?

Seismograms read by J.H.Latter

J.H.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
11th. Oct. to 17th. Oct. 1962

World-Wide Standardised Instruments
Z N E Short Period Benioff Seismometers at Observatory.
Z/N/E/ Long Period Sprengnether Seismometers at Observatory.

ZeNrEr Old Model Short Period Benioff Seismometers at Rapindik

11th Oct.		Nil				
12th. Oct.	eiP	Z	12	29	38½	Volcanic Harmonic Tremor recorded on all instruments until 1250.
	iP	Zr	14	58	47.7	Dilatation (to West?)
	iP	Z			48.2	Compression (from North?)
	i	Zr			49.2	
	i(S)	Zr		59	16.2	
	iS	Z			16½	
	eiP	Er	20	58	36	Volcanic Harmonic Tremor recorded on all instruments until ~~2015½~~ 2105
13th.Oct.	eP	Zr	03	12	19	
	eP	Z	18	51	37½	
	i	Z/		52	51	
	e	Z		55	05½	
	eL	Z/			55	
14th. Oct.	eP	Zr	00	37	23	
	iP	Z			24.0	Dilatation
	e	Z/		48	40	
	iP	Z	02	12	28.6	Compression
	iP	Zr			28.8	
	i(S)	Z			43½	
	e(P)	Z	05	07	58	
	e(P)	Er	12	12	49	
	e(P)	Z	14	13	34½	
	iP	Z	15	16	39.1	
	eP	Zr	15	48	12	
	iP	Z	16	48	55.7	
	iP	Zr			56.0	
	iS	E		49	15.0	
	iP	Z	22	15	32.7	Compression Deep?
15th. Oct.	eP	Z	00	30	53½	
	eP	Z	14	07	18	

15th Oct. contd.	iP	ZEr	19	44	46.0	
	iS	E		45	04.7	
	(iP	ZNE	20	37	02.2	Compression from South-West Deep?.
	(					
	(iP	Er			02.4	Dilatation to South-East
	eiP	Nr	23	44	22	
	iP	E			25.2	
16th.Oct.	iP	Z	01	01	00.4	Dilatation
	iP	Nr			01.5	
	eP	Z	01	13	18½	
	eP	Z	02	51	18	
	eP	Z	02	54	08	
	eP	Nr			12	
	eP	Z/			14½	
	eL	Z/		59	22	
	eP	Z	05	26	01	
	eL	Z/		30	46	
	eiP	Z	06	14	37½	
	eiP	Nr		15	25	
	eP	Nr	14	07	25	
	eP	Z	18	12	50	
	eL	N/	18	30	43	
	eL	Z/	18	43	34	
	iP	Nr	19	11	12½	
	e				39	
	eP	Nr	15	09	45½	
17th.Oct.	iP	Nn	00	14	32.3	Dilatation to North-(West)
	iP	Nr			32.7	
	iS	E			49.6	
	iP	ZNr	02	02	21.4	Dilatation on Z
	eP	ZrNr	15	01	(27)	
	eP	Nr	17	06	51½	
	e	Nr		07	20½	
	eiP	Nr	17	15	27.3	
	eP	Nr	18	16	07	
	i	Nr			36.4	
	eP	ZNE	19	07	20	
	i	E			33.1	
	iP	E	21	59	50.7	Dilatation
	iS	N	22	00	23.7	
	iP	Z	22	04	23.4	

Seismograms read by J.N.Latter.

J.N.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period 18th. Oct. to 24th. Oct. 1962.

World-Wide Standardised Instruments

Z N E Short Period Benioff Seismometers at Observatory.
Z/N/E/ Long Period Sprengnether Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Rapindik.

18th. Oct.	eL	Z/	04	23	54	
	iP!	ZrNr	07	26	44.6	Dilatation to South.
	iP	Z			44.8	Compression from South-West.
	i(S)	Z			53.3	
	eP	Z	08	48	12	
	iP	Zr	08	49	40.1	
	i(P)	Z			40.3	Compression from North-East. Deep?
	iP	Zr	11	32	34½	
	iP	Z	11	31	26.3	
	i(P)	Zr			26.4	
	eiP	Z	15	05	59	
	iP	Zr			59.8	
	i	E		06	26.7	
	i	Nr			30.2	
	i(S)	E			30.5	
	e(P)	Z/	16	20	52	
19th. Oct.	iP	Z	05	35	24.7	— 20 Oct.
	eL	Z/	10	58	50	
	iP	Nr	12	53	23.8	
	iP	ZE	14	34	15.2	Compression from West. Deep?
	eP	Nr	17	21	13	
	iP	Nr	17	24	21	
	e(P)	Z/	22	09	17	
	iP!	Nr	22	13	03.6	Dilatation
	iP	Z/	23	47	13	
	iP	Er			14½	
	iS	N/		51	02	
20th. Oct.	iP	Z/	00	39	09	
	iP	Zr			09.1	
	e(P)	N/	05	35	(02)	
	e(P)	E/			38	
	e(P)	Z/			53	
	iP	Nr			54	
	e(S)	N/		39	18	
	e(S)	E/			24	
	e(S)	Z/			25	

20th. Oct. contd.	eP	Nr	11	10	(10)	
	eP	Zr	14	34	14	
	eP	Nr	16	31	(43)	
	iP	Z	17	21	11.6	Compression.
	e	Z		22	08	
	iP!	ZN	22	13	03.5	Dilatation (to South-West?)
	i(S)	Z	-86-		06½	
	eP	ZN	23	47	15½	
	i	ZNE			16.0	Compression from North-East. Deep?
21st. Oct.	e(P)	Z/	04	58	39	
	iP!	Zr	09	55	45.9	Compression from North-East.
	iP!1	ZNE			46.4	Dilatation to South East.
	iS	N			56.4	
	iP	Z	12	16	48.8	Dilatation
	iP	Zr			49.0	
	i!	Z			49.1	Compression from South-East?)
	e(P)	Z/	15	30	(36)	
	eiP	Nr	15	49	(41)	
	eP	Zr	16	54	48	
	eP	Z			49	
	i	Z			49.5	
	iP	Nr	17	25	18.6	
22nd. Oct.	iP	Z	04	36	16.3	Compression from East.
	iP	Zr			17.1	
	iS	N/		37	33	
	e	N		38	07	
	e	N			30	
	i	Z/			45	
	eL	Zr			(49)	
	eL	Z		39	35	
	iP	Zr	05	56	03.6	Dilatation
	iP! ZNE	Z/N/E/			04.1	Dilatationto South-West.
	iS	N/			20½	
	eL	Z/		58	(50)	
	eP	Nr	11	15	58½	
	iP	Zr	12	46	43	
	i(S)	Nr		47	03.6	
	eP	Zr	14	51	31	
	iP	Z			31.6	Compression
	i	N			50.5	
	i(S)!	Nr			50.8	
	i!	N		52	03.7	
	eiP	Z	15	30	40½	
	iP	Zr			40.6	
	i(S)	E		31	10.6	
	i(S)	N			14.7	
	iS	Nr			15.5	

22nd. Oct. contd.	eP	Z/	15	32	55
	e	E/		45	22
	e	N/		47	47
	e	Z/		48	05
	eL	E/	18	46	20
	iP!	ZE Zr21		58	13.2 Compression from North-East (Z)
	iS	Z/			24
	iS	N/E/			24½ Dilatation to South-West (Zr)
23rd. Oct.	eP	Zr	09	51	17
	eP	Zr	10	02	37
	eP	Zr	13	44	37½
	eP	Zr	18	15	(10)
	eiP	Zr	19	50	59
	iP	ZZr	20	56	17.2 Compression on Z
	iS	N			35.7
	iS	ZE			35.8
24th. Oct.	Nil				

Seismograms read by J.H.Latter

J.H.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
25th. Oct. to 31st. Oct. 1962

World-wide Standised Instruments
Z H E Short Period Benioff Seismometers at Observatory.
Z/N/E/ Long Period Sprengnether Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Rapindik.
Zh Short Period Vertical Benioff recording on Helicorder at Observatory.

Corrections.

Shocks	iP	Z	05	35	24.7
	iP	Ze	14	34	15.2

given in last week's bulletin as 19th Oct. occurred on 20th. Oct.

Shocks	iP	Z	17	21	11.6
	iP!	ZN	22	13	03.5
	eP	ZN	23	47	15½

which were given as 20th. Oct. occurred on 19th. Oct.

25th. Oct.	eP	ZrNrE/	03	43	(24)
	iP	Z			24.2
	e	Z/		46	10
	iP	Z	08	38	28.6 Dilatation
	iS!	Z			38.0 Dilatation
	eS	E/			38
	eP	ZE/	09	39	41
	i	Z		40	08.5
	i	E/			41
	e	N/		43	58
	i	E/		44	08
	i	N/		45	05
	iL	Z/			34
	i	Z		46	46.6
	e(P)	Z	15	33	33
	eL	Z/	16	49	40
	eP	ZrNrN/	20	15	54
	e	N/		19	18
	e	Z/N/		23	50
	i	N/			57½
	eL	N/		30	24
	iP!	ZrNrEr	21	30	41.3 Dilatation to North West
	iP!	ZNE			41.6 Compression from North West
26th Oct.	eP	Z/	07	24	58
	eP	Zr			59½
	iP	Z		25	00.6
	i	ZN			06.1
	e	N/		28	08
	iL	Z/		30	07½
	i	E/			33½
	eL	Z/	17	02	34

27th. Oct.	i(P)i	Z	13	37	38½	
	iP	Nr	14	23	11.5	
	eiP	Z	14	44	21½	
	iP	ZrNr	16	15	06.2	Compression from North-~~West~~ Deep?
	el.	Z/	22	25	(30)	
	iP	Z	22	30	26½	
	e	Z/N/		31	33	
	iL	N/		34	20½	
28th Oct.	eiP	Z	03	59	31	
	iP	Nr	04	21	28.9	
	eP	Nr	10	31	21½	
	eP	Z	11	33	19	
	eP	Nr			33½	
	ex	Nr		34	59	
	i	Nr		35	07.3	
	eP	Z	12	13	27	
	el.	Z/	12	24	16	
	iP	ZrNrEN	14	31	34.2	Dilatation to North-West
	i	Nr			42.2	at Observatory
	i!e	EN/			43.0	Compression from North
	i3	NrNr			43.1	at Rapindik
	iP	EN	15	06	12.3	Deep?
	i!	E			12.7	
	iP	Z	21	05	03.3	
	i!	E			06.2	
	i(e)	N			25.6	
29th Oct.	el.	Z/	08	01	28	
	eP	Nr	13	22	02	
	iP	Z			02.7	
	i	Nr			05.6	
	iN	NE		23	03	
	iP	E	14	51	00.9	
	iP	Nr			01.2	
	eP	Nr	14	59	08½	
	iP	E			09.3	Compression from East.
	i	E			29.3	
	i	E/			34½	
	i	E/			41½	
	el.	Z/	16	51	(30)	
	e(P)	E/	21	27	16	
	e	Z/		46	06	
30th. Oct.	iP	Z	00	22	53.5	Felt Rabaul Int./(M.M.)
	iP	Nr			55.2	over limited area only.
	i	E		23	13.1	Probably volcanic tremor.
	i	Nr			14.4	
	el.	Z/	02	40	26	
	iP	ZrZ/E/E/	07	22	17	

30th.Oct. contd.		continuation of previous shock.				
	iP	EE			17.7	Compression from East
	i(S)	E			35	
	i	Z/		23	07	
	eL	Z/	09	27	24	
	eL	E/	11	22	08	
	e	E/			34	
	i	E/			36	
	iP	Z	13	06	49.4	
	e	Zr		08	04	
	i	E			04.8	
	eL	Z/	15	38	56	
	e(P)	Z/	15	41	(20½)	(Also recorded on Omori.)
	iZ/N/E/				23	
	i	E		42	03	
	i	E/			39	
	i	Z/		43	50	
	e	Z/	16	20	15	
	iP	Zr	16	29	02.1	
31st.Oct.	e(P)	Z/	04	25	(40)	
	iP	Z	05	24	04.5	
	iP	Z	07	02	45.8	
	iP	Zr			47.7	
	eP	ZrEr	10	11	11	
	e(P)	Z/	12	30	(11)	

Seismograms read by J.H.Latter

J.H.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
1st. Nov. to 7th. Nov. 1962

World-Wide Standardised Instruments
Z N E Short Period Seismometers at Observatory.
Z/N/E/ Long Period Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Rapindik.
Zh Short Period Vertical Benioff recording on Helicorder at Observatory.

1st. Nov.	eiP	Er	04	14	15.6	
	eL	N/	14	00	(12)	
	iP	Z	15	37	55.6	Compression from North-West on Z/N/E/
	iS	E/		41	59	
	i!	E/		43	07	
	eP	Z	17	56	55	Compression from North-West on Z/N/E/
	e	Z	18	00	57½	
	i(S)	E/			58½	
	i!	E/		02	00½	
2nd Nov.	iP	Z	00	23	49.2	
	i!	N			58.8	
	i	Z		24	19.5	
	eP	Z	06	58	54	
	iP	Nr	13	51	17.9	
	eP	Nr	14	43	25	
	iP	Er	14	44	27.0	
	iP	Z	14	53	26	
	iP	Nr	23	23	31.7	
3rd. Nov.	iP	Z	01	02	08.7	
	i	Z/		03	28	
	iL	N/	02	22	20	
	eP	Z/	04	35	24	
	e(S)	N/		36	20	
	iL	N/	13	30	39	
	e	N		31	(12)	
	iP!	Z	14	10	14.1	Dilatation to South-West.
	iS	N			35.5	
	eP	Z	15	41	08	
	i(P)	Z	18	12	53.7	

4th.Nov.	iP	Zr	14	02	20.5
	iS	NrEr			35
	iP!	Z	17	20	14.2 Dilatation
	iP	ZrNr			14.8
	i!	Zr			15.1
	iS	Er		21	02.7
	iP!	ZN	23	21	34.4 Dilatation to South.
5th.Nov.	Nil.				
6th Nov.	e	Z/	00	46	-
	e	Z/		57	(20)
	e	Z/	04	12	(12)
	iP!	ZrEr	09	50	04.6 Compression from South-East.
	iP!	Z			04.8 Dilatation to North-West.
	iS!	N/E/			20 (movement to North-East).
	iP!	ZrNr	21	27	05.5 Dilatation to North-(East?)
	iP!	ZNE			05.3 Compression from South East.
	iS!	N/			16 (movement to South).
	(Also recorded on Omori.)				

Felt.

Dotlene	Int. 4 (M.M.)	4°15'S	151°35'E
Karlai	Int. 3 (M.M.)	5°05'S	152°00'E
Gavit	Int. 3 (M.M.)	4°10'S	151°40'E
Rabaul	Int. 2 (M.M.)	4°10'S	152°10'E

7TH.Nov.	iP	Zr	10	12	21.8
	e	N/	15	06	05
	e(P)	Z/	16	09	19
	i(P)	Zr		11	39
	e(S)	N/		16	08
	eL	N/	17	15	22
	e	Z/	20	20	(19)

Seismograms read by J.H.Latter

J.H.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
8th. Nov. to 14th. Nov. 1962

World-Wide Standardised Instruments
Z N E Short Period Seismometers at Observatory
Z/N/E/ Long Period Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Rapindik.
Zh Short Period Vertical Benioff recording on Helicorder at Observatory.

8th. Nov.	eP	ZrEr	21	24	30	
9th. Nov.	eL	Z/	01	12	-	
9th. Nov.	eL	Z/	03	49	-	
	eP	ZrEr	08	32	26	
	eiP	Er	09	36	00	
	iP	Zr	11	27	24.8	
	iP	Z			25.1	Dilatation
	iS	Zr			30.8	
	iS	NrErZ			31	
	iS	N			31.4	
	iP	Zr	13	04	37.9	
	iP	Z			38.1	Compression
	iS	N		05	00	
	eP	Zr	17	01	13	
	i	Zr			13.7	
	iP	Zr	17	54	52	
10th. Nov.	eL	N/	01	55	-	
	iP	Z/	02	30	40	
	eS	E/		34	10	
	iS	N/			30	
	eL	Z/	11	21	45	
	iP	Zr	21	14	40.7	Dilatation. Foreshock.?
	iP	Zr	21	24	49.0	Dilatation
	iP!	Z			49.1	Compression
	iS	Z/N/		25	10	

Felt :-Rabaul Int. 2 M.M. 4°10'S 152°10'E.
Vunalama Int. 2 M.M. 4°20'S 151°50'E.

11th. Nov.	eL	Z/	08	17	50	
	i	Z	11	42	41	
	eL	Z/	12	04	08	
	iP	Z	15	50	47.1	Compression
	iS	ZNEN/		51	05½	
	e(P)	Zr	15	57	(28)	
	eP	Z	16	13	44	

11th Nov. contd.	continuation of previous shock.				
	iP	Z/			44½
	i	NE		16	48
	e(S)	N/			51
	i	E/		17	16
	iL!	Z/		18	04
12th. Nov.	eiP	Z	02	55	04
	iS	E			45
	iP	Z	12	56	25.1
	e(P)	Z/	13	06	53
	eL	Z/	20	00	30
13th. Nov.	eiP	Z	12	05	10
	eP	Z	14	43	36
	iS	N/E/			50½
14th. Nov.	e(P)	Z/	08	05	04
	e	Z/		07	14
	e	N/		08	53
	iP	Z	22	05	12.2
	i(S)	N/		09	57½
	i(S)	E/		10	02½
	i	N/		11	48
	eL	Z/		14	06

Seismograms read by J.M.Latter

J.M.Latter
Vulcanologist.

19th. November	iP:	Z	16	49	48.8	Dilatation
	i(S)	N/		50	05.6	
	Also recorded on Omori.					
20th. November	iP:	Z/	00	54	52.9	Dilatation
	Also recorded on Omori.					
	Felt:- Rabaul Int. 2 (M.M.) 04° 10'S, 152° 10'E.					
	iP	Z	02	51	20.4	
	e(P)	Z	05	58	49	
	e(P)	Z	07	10	35	
	iP	Z	10	11	57.9	
	iP	Zr			58.0	
	Felt:- Kavieng Int. 4 (M.M.) 02°10'S, 150°48'E. Rabaul Int. 2-3 (M.M.) 04°10'S, 152°10'E.					
	e	Z	17	58	23	
	e	Z/	18	00	23	
21st. November	eP	Nr	07	35	33½	
	eP	Z	08	03	52½	

Vulcanological Observatory RABAUL

Provisional Readings of Rabaul Seismograms for the period 15th. Nov. to 21st. November.

World-Wide Standardised Instruments
Z N E Short Period Seismometers at Observatory.
Z/N/E/ Long Period Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Napindik.
Zh Short Period Vertical Benioff recording on Helicorder at Observatory.

N.B. Where readings are given with a decimal figure, they have been read to 1/10 second; other readings have been made to the nearest half second.

15th. November.	iP	Z	02	20	30.3	
	i	N			46	
	i(P)	Z	07	42	30.1	
	iP	Z	16	26	40.0	Dilatation
	i	Z			46.2	
	i	Z			57.7	
	Felt :- Lag Int. 6 (H.M.) 06°45'S, 147°00'E.					
	iP	Z	18	29	54.5	
	i	Z			58.6	
	i(S)	N		30	(09.6)	
	iP	Z	18	41	02.4	in coda of preceding shock.
	i	Z			19.1	
16th. November.	e(P)	Z	07	31	44	
	e	Z/			52	
	e	Z/		42	32	
	e	Z/		44	17	
	e	Z/	08	02	07	
	eP	Z	09	36	31½	
	eP	Z	20	51	42	
	e	Z	21	20	14	
	e	Z/		20	19½	
	e	Z/		28	36½	
	i(P)	Z	23	13	52.6	
17th. November	iP	Z	08	27	49.2	
	iP	Z	14	27	02.3	
18th. November	iP!	Z	02	25	38.2	Dilatation
	i	Z			47.5	
	i(P)	Z	06	48	49.1	
	e	Z/		49	28	
	e	Z/		57	26	
	eP	Z	12	19	31	
	iP!	Z	14	13	54.4	Compression
	i	N		14	18.2	

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
22nd. Nov. to 28th. Nov. 1962

World-Wide Standardised Instruments
Z N E Short Period Seismometers at Observatory.
Z/N/E/ Long Period Seismometers at Observatory.

Zr,Nr,Er, Old Model Short Period Benioff Seismometers at Rapindik.
Zh Short Period Vertical Benioff recording on Helicorder at Observatory.

N.B. Where readings are given with a decimal figure, they have been read to 1/10 second; other readings have been made to the nearest half second.

C.B.H. Confused by microseisms.

22nd. Nov.	iP	Z	06	18	38.5	
	i(S)	E		19	12.0	
	eP	Z	07	42	03	
	e	Z/		42	08	
	e	Z/		45	58	
	iP	Z	08	01	18.1	
	e	Z/	20	52	18	
23rd Nov.	iP	Nr	00	20	47.3	C.B.H.
	e	Z/	01	31	35	
	iP!	Z	09	09	12.3	Dilatation to South West.
	e	Z	10	44	(28)	
24th. Nov.	e	Z/	08	28	05	
	e(P)	Z	10	40	03½	
	eP	Z	13	48	27½	
	i(P)	Z	16	01	37.0	
	eP	Z	17	23	55½	
	iP	Z/			57.3	Compression from North West
	i(S)	N/		24	52.3	
	iP	Z	18	14	49.0	
	eP	Z	18	56	06½	
25th Nov.	iP	Z	05	06	26.7	
	i	Z			33.9	
	e	N/	10	04	50	
	eP	Z	10	21	09	
	iP	Z	13	02	48.7	
	iP!	Z	14	57	03.6	Dilatation
	iP	Zr			03.7	
	i	Z			05.7	

26th. Nov.	e	Z	16	05	(54)
	e	Z/	16	14	25
	e	Z/		17	09
27th. Nov.	iP	Z	07	00	26.5 Dilatation
	e	Z/			57½
	i	Z		01	01.3
	i	Z			10.5
	e	N/		06	22½
	iP	Z	09	42	41.6
	i	Z			45.7
	e	Z/		43	06½
	iP	Z	12	14	23.8 Compression
	e	Z/		20	19
	e	Z/		23	09
	iP	Z	13	26	30.0 Dilatation
	e	N/		27	12
	iP	Z	13	28	38.7 in Coda of preceding shock
	eP	Nr	16	20	29
	eP	Z,Z/	16	54	39
	e	Z/		57	49
	e	N/		59	05
	eP	Z	17	13	43
	iP!	Z	20	49	12.8
	i	Nr			19.9
	iP!	Z	21	59	28.7 Dilatation
28th. Nov.	eP	Z	02	39	48
	i	Z		40	01.3
	e	Z/		44	24
	eP	Z	03	58	(41) C.B.M.
	i	Z			59.2
	eP	Z	08	37	23½
	i(S)	Z			51.4
	iP!	Z	10	52	02.4 Dilatation
	i	Z			05.3
	i	Z			13.1
	i(S)	N			16.9
	iP	Z	15	36	04.5
	e	Z/	21	04	11½
	iP!	Z	22	37	59.6 Compression

Seismograms read by J.H.Herlihy

J.H.Latter
VULCANOLOGIST.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period 29th. November to 5th. December 1962

World-Wide Standardised Instruments
Z N E Short Period Seismometers at Observatory.
Z/N/E/ Long Period Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Rapindik.
Zh Short Period Vertical Benioff recording on Helicorder at Observatory.

N.B Where readings are given with a decimal figure, they have been read to 1/10 second; other readings have been made to the nearest half second.

C.B.M. Confused by microseisms

29th November.	eP	Z	03	57	09	
	eP	Z	09	10	48½	
	e	Z/		16	44	
	e	Z/		21	34	
	e	Zr	12	48	54½	
	iP	Z	13	57	27.0	Compression.
	i	Z			47.5	
	iP:	Z	15	40	04.8	Compression
	iP	Z	18	57	55.0	Compression
	eiP	Z/	19	11	13	Dilatation to South
	e	Z/		15	13	East
	eL	N/		15	20	
	iP	Z	21	54	25.0	Compression
	i(S)	N			51.0	
	eP	Z	22	45	44½	C.B.M.
	i(S)	E		46	28.0	
30th November.	e(P)	Z	12	42	41	C.B.M.
	iP:	Z	12	52	29.7	Dilatation to South West
	eP	Z	16	58	52	
	e	Z/		59	08	
	e	Z/	17	03	18	
	eL	Z/		06	07	
	e	Z/	22	41	07	
	iP	Z	23	09	26.5	C.B.M.
	e(S)	Z/		11	07	

Felt :- Gembogl Int. 3 (M.M.)
05°50'S, 145°10E/

1st. December.	iP	Z	00	00	42.8
	e	Z/	02	09	287
	eL	Z/		19	44
	e	Z/	04	24	13
	eL	Z/		35	15
	iP	Z	11	15	12.4
	eP	Z	21	08	23½ C.B.M.
	i	Z			26.9
	iP	Z	23	14	02.0 Dilatation
2nd. December.	eP	Z/	05	33	06½
	e	Z/		35	04½
	iP	Z	08	11	50.8 C.B.M.
	iP	Z	17	44	02.9 C.B.M.
	eP	Z	18	11	11
	iP	Z	18	26	07.1
	iP	Z	23	54	47.3 C.B.M.
	iP	Z	23	59	43.1 C.B.M.
3rd. December.	iP	Z	13	08	33½
	iP	Z	21	37	19.8 C.B.M.
	iP	Z	21	46	40.4 C.B.M.
4th. December.	i(P)	Z	01	33	16.0
	iP	Z	05	44	25.8
	iP!	Z	10	35	13.9

Also recorded on Omori.

Felt:- Kandrian Int 3-4 (M.M.)
06°15'S. 149°35'E.

e	Z/	16	47	08
e	Z/		48	34
e	Z/		51	54
e	Z/	17	00	56
iP	Z	17	23	10.5
i	Z		24	02.9
eP	Z	22	29	37
i	Z			38.0

5th. December.	e(P)	Z/	01	18	53
	e	Z/		21	42
	e	Z/		23	52
	iP	Z	13	23	22.6
	iP	Z	19	58	22.3
	iP	Z	21	52	27.5

Seismograms read by J.H.Herlihy.

J.H.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA

Vulcanological Observatory Rabaul.

Provisional Readings of Rabaul Seismograms for the period 6th December to 12th December, 1962.

6th Dec.	e	Z	04	13	17	
	iP	Z	05	43	19.1	Dilatation
	i(S)	N			34.6	
	e(P)	Z	18	00	01½	
	iP	Nr	21	35	09.4	C.B.M.
7th Dec.	iP	Z	14	09	57.5	Compression
	e	Z/		11	11	
	e	Z/		17	33	
	iP	Z	15	40	49.2	
	e	Z/		41	15	
8th Dec.	iP	Z	00	34	30.1	
	i	N			55.5	
	iP	Z	01	59	47.4	
	i	Z	02	00	15.1	
	iP	Z	02	08	25.4	
	i	N			45.5	
	iP	Z	11	28	56.0	Dilatation
	e	E		29	14½	
	e(P)	Z	18	25	22	
	e	Z/		26	48.7	
	e	N/		30	56	
	e	N/		33	35	
	e	Z/		35	24	
	iP	Z	19	14	46	C.B.M.
	eP	Z	21	45	25	C.B.M.
	eP	Z/	21	47	49	
	i!	Z/		48	09.2	
	e	Z	23	05	10	
9th Dec.	iP	Z	04	10	16.4	C.B.M.
	iP	Z	07	31	21.6	
	iP!	Z	09	52	31.1	Dilatation
	i(S)	N			43.4	
	iP	Z	10	20	14.5	Dilatation
	iP	Z	12	41	10.3	Dilatation
	i(S)	N			38.8	
	e	Z	14	22	38	

(Cont. over

9th Dec. Cont.	iP!	Z	14	27	33.4	Dilatation to South East. Also recorded on Omori
	i(S)	N			54.8	Felt: Rabaul Int.2 (M.M.) 04°10'S, 152°10'E.
	eL	Z/	21	11	55½	
10th Dec.	iP	Z	04	20	29.2	
	iP	Z	06	13	35.5	
	i	Z		15	17.0	
	eP	N	11	53	42	
	i	N			47.0	
	i(S)	N			54.0	
	iP	N	13	17	49.2	
	iP	E	14	44	01.8	
	i	E			48.4	
	i(S)	N		45	10.1	
	eP	N	15	22	28	
	eL	E/	17	14	14½	
	e(P)	N	20	21	04	
	i	N			27	
11th Dec.	iP!	Z	03	33	53.0	Compression
	i	Z/			55	Felt: Rabaul Int.1-2 (M.M.) 04°10'S, 152°10'E.
	iP!	Z	03	46	39.2	
	iP!	Z	04	16	17.2	Compression
	iP!	Z	04	19	18.8	Compression In Coda of preceding shock.
	iP	Z	04	21	06.0	In coda of preceding shock.
	iP	Z	04	36	08.6	Compression
						Felt: Rabaul Int.1-2 (M.M.) 04°10'S, 152°10'E.
	iP	Z	04	46	30.5	Compression
	iP	Z	04	56	21.0	Compression from North West
	iP!	Z	10	44	39.8	Compression
	eP	Nr	17	15	16½	
	e(P)	Z	18	11	57	
	iP!	Z	18	24	01.9	Dilatation
	i(S)	N			26.9	

12 Dec.	iP!	Z	10	09	18.2	Dilatation from South East Also recorded on Omori (S-P = 29 seconds approx.) Felt: Rabaul Int.5 (M.M.) 04°10'S, 152°10'E. Karlai Int.3-4 (M.M.) 05°05'S, 152°00'E. Doilene Int.3 (M.M.) 04°15'S, 151°35'E.
	iP	Z	21	02	58.4	
	iP	Z	22	33	15.3	Compression
	iP	Z	22	35	13.4	Compression In coda of preceding shock.
	iP!	Z	23	12	54.5	Compression
	iP	Z	23	17	21.2	Compression.

Seismograms read by J.H. Merlihy.

J.H. Latter,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period 13th. December to 26th. December 1962.

World Wide Standardised Instruments.
Z N E Short Period Seismometers at Observatory.
Z/N/E/ Long Period Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers a t Rapindik.
Zh Short Period Benioff Recording on Helicorder at Observatory.

N.B. Where readings are given with a decimal figure, they have been read to 1/10 second; other readings have been made to the nearest half second.

N.B. The Power lines to the Obsevaotry were struck by lightning at 0815 hrs. on 14th. December from which time the World Wide Standardised Instruments ceased to operate.

C.S.M. Confused by Microseisms.

13th Dec.	iP	Z	01	02	17.0	
	iP'.	Z	01	37	07.2	Compression
	iP!	Z	02	08	52.5	Compression
	i	Z		09	41.0	
	iP!	Z	02	43	09.9	Compression
	iP!	Z	02	45	36.6	Compression
	iP	Z	05	42	11.2	
	iP	Z	07	51	06.4	Dilatation.
	iP	Z	08	14	04.7	Dilatation
	Also recorded on Osori.					
	iP	Z	18	24	53.4	
	iP!	Z	21	54	36.4	Compression
	iP	Z	23	39	23.8	
14th Dec.	iP	Z	03	34	47.9	
	iP!	Z	04	34	59.2	Dilatation
	iP	Z	05	02	58.0	Compression
	iP	Z	05	53	33.4	Compression.
	iP	Z	06	52	03.3	
	iP	Zr	08	54	18.2	
	iP	Zr	20	56	28.0	

15th. Dec.	iP	Nr	14	22	46.8
	Also recorded on Omori.				
	Felt: Rabaul Int 3(M.M.)				
	04°10'S, 152 10'E.				
	iP	Nr	18	13	02.2
16th. Dec.	Nil Recorded				
17th. Dec.	e(P)	Nr	11	05	41½
	eP	Nr	11	21	21
18th. Dec.	iP	Zr	14	28	01.7
19th. Dec.	eP	Zr	11	17	11
	eP	Zr	12	56	51½
	i	Zr			52.0
	Felt: Rabaul Int. 3(M.M.)				
	04°10'S, 152°10'E.				
	Hetlik Int. 1-2 (M.M.)				
	04°45'S. 152°55'E.				
	eP	Zr	15	12	27
	eP	Zr	15	57	53½
	eP	Zr	16	31	06
	eP	Zr	17	10	58½
	eP	Nr	19	55	(58) C.B.M.
	iP	Zr	20	05	43.4
	eP	Nr	22	25	28½
20th Dec.	eP	Nr	03	47	12
	eP	Zr	07	12	49½
	iP	Zr	08	44	09.0
	eP	Zr	11	09	22½
	eP	Zr	18	10	26½
	i	Zr			26.8
	eP	Nr	19	56	08½
	eP	Zr	20	02	(51) C.B.M.
21st. Dec.	eP	Nr	01	26	53½
	Felt: Rabaul Int 2 (M.M.)				
	04°10'S, 152°10E.				
	eP	Nr	10	45	02
	iP	Nr	11	41	46.3
	iP	Nr	18	05	01.1
	iP	Zr	19	36	26.8

22nd. Dec.	eP	Hr	04	57	(49½) C.B.M.
	eP	Hr	10	20	20
	eP	Hr	13	38	47
	e	Hr	15	31	(02) C.B.M.
	iP	Hr	20	04	31.4
	iP	Hr	23	28	24.9

Felt: Rabaul Int 1 (M.M.)
04°10'S. 152°10'E.

23rd. Dec.	iP	Hr	08	09	33.5
	eP	Hr	14	10	(45½) C.B.M.
	iP	Hr	20	16	02.9
24th Dec.	iP	Hr	03	35	43.9
25th. Dec.	Nil recorded.				
26th. Dec.	iP	Hr	21	16	05.6 C.B.M.
	eP	Hr	22	35	25.

Seismograms read by J.H.Hexlihy.

J.H.Latter
Vulcanologist.

Season's Greetings
From Staff of the Observatory.

31st. Dec.	iP	Nr	00	48	39.8
	eP	Nr	04	34	54
	iP	Nr	05	27	38.7
	eP	Nr	05	51	(16½) C.B.M.
	eP	ZW	07	43	11½
	iP	ZW	08	50	40.2
	iP	ZW	10	42	29.4
	iP	ZW	13	35	27.2
	iP	ZW	14	06	25.3
	e(P)	ZW	15	37	26½
	iP	ZW	17	19	43.1

Felt: Rabaul Int. 2-3 (M.M.)
04'10'S, 152'10'E.

	iP	Nr	18	43	45.0
	eP	Nr	20	02	(30) C.B.M.
	eP	Nr	22	46	44 C.B.M.
1st. Jan.	iP	ZW	12	18	46.0
	eP	Nr	15	56	05
	eP	ZW	17	50	35
	iP	ZW	19	53	36.6
2nd. Jan.	iP	Nr	03	24	11.3
	iP	ZW	04	46	50.8 C.B.M.
	iP	ZW	07	41	20.6
	i(S)	ZW			49.1
	e(P)	ZW	15	00	03½

N.B 1963 Jan. Seismograms read by J.N.Herlihy.

J.N.Latter
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA
Vulcanological Observatory Rabaul

Provisional Readings of Rabaul Seismograms for the period
27th. December to 2nd. January.
1962. 1963.

World Wide Standardised Instruments
Z N E Short Period Seismometers at Observatory.
Z/N/E/ Long Period Seismometers at Observatory.

ZrNrEr Old Model Short Period Benioff Seismometers at Rapindik.
Zh Short Period Benioff Recording on Helicorder at Observatory.
ZW Portable Willmore Seismograph at Observatory.
N.B. Where readings are given with a decimal figure, they have been read to 1/10 second; other readings have been made to the nearest half second.

N.B. The Power lines to the Observatory were struck by lightning at 0815 hrs. on 14th. December from which time the World-wide Standardised Instruments ceased to operate.

C.B.M. = Confused by Microseisms.

27th. Dec.	eP	Nr	01	19	26½
	iP	Nr	01	36	31.0
	eP	ZW	06	20	04½
	iP	ZW	06	45	53.7 Dilatation
	iP	ZW	09	08	29.2
	eP	ZW	11	49	50½
	eP	ZW	14	03	47
	Felt:	Bogia Int. 4 (M.M.) 04°15'S, 144°55'E. Manam Int 3 (M.M.) 04°05'S, 145°05'E. Gembogl Int. 3 (M.M.) 05°50'S, 145°10'E.			
28th. Dec.	iP	ZrZw	13	27	20.3
	iP	ZW	15	27	24.9
29th. Dec.	e	Nr	11	03	40
	eP	ZW	14	17	35½
	e(P)	Nr	14	55	06
	eP	ZW	17	42	38½
	eP	ZW	19	13	32½
30th. Dec.	eP	ZW	11	38	30
	eP	ZW	18	16	50
	i	ZW			50.9
	Felt:	Rabaul Int. 3 (M.M.) 04°10'S, 152°10'E.			
	iP	ZW	19	18	12.3