

comes to end of Feb to Dec 60

TERRITORY OF PAPUA AND NEW GUINEA.
VULCANOLOGICAL OBSERVATORY RABAU.

RABAU

JAN 1960 - 2 MAR 60

Provisional readings - 8th January, 1960.

30th December					Strong microseismic activity.
31st December	X	i(P)	10	32	31.6
		i		33	56.6
					confused by microseisms.
1st January		e(S)	05	02	36
					confused by microseisms.
		i	21	05	28.1
		i		06	34.2
		i			40.5
2nd January	X	i(P)	03	40	47.7
		o		44	05
	X	e	07	09	48
	X	o	12	41	46
	X	oP	16	10	28
		i			28.8
		iP!	21	23	20.4
					Felt Rabaul 04.118, 152.108 Int. 3 (MM)
					" 2122 Pondo 05.308, 151.308 " 4 "
					" 2123 Lolohau 04.508, 151.108 " 3 "
					" Rarai 05.108, 152.008 " 4 "
3rd January	X	e(P)	11	35	58
	X	oP	20	33	15
		i			16.6
	X	o(S)			54
	X	o(P)	21	28	35
		i			52.8
4th January		iP!	06	12	03.7
					Felt Rabaul 04.118, 152.108 Int. 3 MM.
		iP	13	41	42.3
	X	e	15	24	(13)
		o			50
		i			49.5
5th January		oP	14	27	35
		oP		28	30
		i			37.7
6th January		e	07	41	17
		e(PKP)	13	14	42
		o(PKP)	15	00	16
		i			20.4
		i			23.3
		oP	20	21	05
		i			13.3 1/4
7th January	X	oP	08	17	11
		i			15.0
	X	e	13	46	41

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Provisional readings - 15th January, 1960.

8th January		Nil				
9th January	✓	eP	07	35	55	
					56.5	
9th January	✓	iP	07	47	36.3	
			i(pP)			44.2
					52	(31)
10th January		e	03	44	53	
			e(P)	06	29	49
			i	11	26	31.0
			e	18	34	20
11th January	✓	iP	02	34	39.3	
			e		47	
	✓	e	03	19	51	
			i(P)	14	59	34.2
	✓	i	15	02	32.7	
			e(P)	16	21	10
			i		22	30.5
						36.7
						41.3
				iP	17	16
			e	17	56	50
				iP	22	49
eP				22	56	37
i!						43.7
12th January	✓	i	01	59	56.6	
			iP	13	00	41.1
			eP	19	56	(19)
13th January		iP	07	29	01.1	
			i(pP)			13.0
			iS			22.2
	✓	eP	15	59	08	
			i		09.1	
			i		17.0	
			i		43.4	
			i	16	02	17.0
			i		28.2	
			i		03	06.6
			i		04	06.2
	✓	e			34.0	
e				15.3		
✓	e	16	39	30		
		i		40.5		
✓	e	18	50	55		
		i		55.7		

14th January No record.



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Interpreted by J. Barrie.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

Provisional readings - 22nd January, 1960.

15th January ~~iP~~ 09 49 00.8
~~i~~
~~i~~ 52 22.0
~~e~~ 54 20

~~eP~~ 17 13 44
~~i!~~ 44.7
~~i~~ 47.7
~~e~~ 17 (22)

~~e~~ 17 31 16
~~e~~ 32 13
~~e~~ 32 22

~~eP~~ 20 40 (38)
~~i~~ 42.7
~~i(S)~~ 41 27.5
~~i(S)~~ 31.3

19th January (cont.)

eP 09 20 28
 i! 30.2

20th January

iP! 19 56 25.4 *Felt Rabaul 3*

21st January

e(P) 10 48 (27)
 confused by microseisms.

Interpreted by J. Barrie.

16th January ~~eP~~ 12 36 23
~~i~~ 24.0
~~i~~ 26.6
~~i~~ 38 52.6
~~e~~ 41 44

~~iP~~ 12 42 23.2
~~i!~~ 23.5
~~i~~ 43 28.8
~~i~~ 52.0

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eP 18 42 14
 i 18.6
 iS 45 33.1

eP 21 44 12

~~iP~~ 21 01 03.7

iP! 23 32 33.6
 Felt Rabaul 04.11S, 152.10E Int. 2(MM)

17th January e 00 44 27

 e(P) 02 26 48
 i! 51.5
 confused by microseisms.

~~e(P)~~ 03 16 25
~~i(P)~~ 32.3
 confused by microseisms.

~~e~~ 04 27 08
~~e~~ 05 18 05

18th January ~~iP~~ 09 10 31.1
~~iS~~ 15 25.5

~~e~~ 14 41 44
~~e~~ 19 49 06
~~e~~ 20 00 43

19th January ~~iP~~ 02 26 09.1
~~i!~~ 09.5
~~ipP~~ 22.4



Provisional readings - 29th January, 1960.

22nd January
 1P 14 41 23.1
 1(pP) 40.7
 1P 15 35 22.9
 1 33.3
 1 36 48.7
 double shock?

23rd January
 1P! 04 45 59.2
 1 47 38.6
 1P 07 36 17.4
 1 40 38.7
 1(P) 45 44.8
 1 46 22.5
 1 47 18.5
 1(P) 08 09 10.4
 confused by microseisms

eP 18 01 31
 1 33.6
 1 05 40.6
 1 06 13.6
 1 07 27.6

1P! 21 57 15.6 Felt Rabaul 04.118 152.10E Int. MM

1P 22 19 12.6 " " " " " " " " " " "

1P 23 37 37.6
 1! 38.4

1P! 23 39 39.6

24th January 1P 01 12 04.6

1P! 03 18 59.5

eP 04 27 34
 1 28 11.4

eP 09 23 24
 1 25.3
 1 24 46.5

eP 12 18 08
 1 11.8

i(P) 17 00 45.5

25th January e 16 35 25

26th January 1P 08 50 35.7
 1! 36.2

e(P) 09 22 40

NA: 1P 10 00 01
 1 02.1

i(P) 14 48 30.7

e 18 35 16

27th January Nil.



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NA

Interpreted by J. Barrie

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 5th February, 1960.

Correction.

Due to an error in the setting of the regulation dial 22.0 seconds should be added to all times from 7th to 27th January, 1960 inclusive.

28th January	i(P)	21 55	41.2	
29th January	iP	08 12	43.1	
	i		46.8	
	i	13	08.4	
	i	14	41.5	
	i		51.4	
	i		56.5	
	i	15	18.8	Felt Ambunti 04.05S, 142.50E Int. 5MM
	e(P)	11 27	16	
	i		21.6	Confused by microseisms.
30th January	e	02 50	40	
	iP	18 17	27.0	
	i	18	15.0	
	i(S)		18.5	
	e	13 43	48	
	iP	04 07	01.3	
31st January	iP!	16 39	38.3	
1st February	Nil.			
2nd February	iP!	21 42	36.4	
	iS!		(45)	Felt Rabaul 04.11S, 152.10E Int. 2 MM
3rd February	iP	02 28	41.2	
	i	29	01.5	
	e	30	06	
	e	34	44	
	i		47.9	
	iP!	11 51	13.6	Felt Gavit 04.12S, 159.40E Int. 3-4 MM " Rangarere 04.15S, 141.35E Int. 3 " " Rabaul 04.11S, 152.10E " 3 "
	iP	13 29	34.6	
	i!		47.5	
	i(S)!	30	39.2	
	iP	19 32	01.3	
	i		55.2	
	i	33	06.6	Felt Popondetta 08.45S, 148.15E Int. 3MM
4th February	i(P)	00 36	43.9	
	i	37	02.7	
	i(S)	38	07.0	
	iP!	03 47	11.0	Felt Rabaul 04.11S, 152.10E Int. 4
	S-P Omori	23 sec.		" Inus 05.40S, 155.10E " 3
				" Numa 05.50S, 155.15E " 4
				" Gavit 04.12S, 159.40E " 3
				" Nieta 06.15S, 155.40E " 3
				" Sohano 05.20S, 154.40E " 4
				" Lolobau 04.55S, 151.10E " 4
				" Fead Is. 03.25S, 154.45E " 3
				" Losuia 08.30S, 151.05E " 4-5
				" Namatanai 03.40S, 153.05E " 4



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Provisional readings - 5th February (cont)

4th February	iP	08	26	29.8	Felt Rabaul 04.11S,152.10E	Int 2	MM
	iP	08	57	57.5	" " " "	" 2	"
	eP	09	27	31.3	" " " "	" 3	"
	S-P	Omori	26	sec.	" Fead Is. 03.25S,154.45E	" 3	"
					" Namatanai 03.40S,153.05E	" 2	"
	iP	11	02	17.2	" Rabaul 04.11S,152.10E	" 2	"
	i!			40.5	" Namatanai 03.40S,153.05E	" 2	"
	iP	12	24	41.6	" Rabaul 04.11S,152.10E	" 2	"
	iP	15	24	40.3	" Namatanai 03.40S,153.05E	" 1	"
	i!			41.7			
	iP	15	38	16.3			
	iP	19	32	03.3			
	eP	23	13	01			
	i			02.3			
	i!			03.5			
	i(S)!			23.3			

Interpreted by J. Barrie

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 12th February 1960

Correction. 3rd February, 1960 - for

iP	19	32	01.3
i			55.2
i		33	06.6

read

iP	19	37	01.3
i			55.2
i		38	06.6

5th February iP 05 40 32.2
 i! 33.0 Felt Rabaul 04.11S,152.10E Int.2-3 MM

iP! 09 33 30.7
 i(S)! 50.3

iP! 18 11 45.7

iP 19 56 21.6
 i! 25.0

6th February iP 01 20 51.3
 i(S)! 21 14.6

iP! 11 36 31.7

iP 17 05 09.5
 i(S)! 28.3

7th February i(P)! 00 23 47.6 Felt Rabaul 04.11S,152.10E Int. 2 MM
 confused in coda of
 preceding small local
 shock.

iP 02 39 48.3

iP 17 03 07.0
 i! 07.4

8th February iP! 09 20 24.8 Felt Rabaul " " " 3 "

e 13 04 (20)
 e 40.5
 e 05 11.5

eP 14 12 08.5
 i 09.3
 i! 14.0

eP 14 59 36.5
 i 37.7
 i 43.6

9th February iP 03 00 33.0

iP 10 19 21.8
 i 25.1

~~iP~~ eP 12 01 32.5
~~i~~ i! 34.1

i(P) 13 53 43.6

iP 15 21 01.9
 i 07.9

iP 16 15 41.5
 i 16 47.4

1950.

9th February (cont.)

eP 16 36 11.5
i 13.3
i! 17.9

Felt Lae 06.45S, 147.00E Int. 4-5 MM.

iP 17 55 49.7
i 56 13.6
i! 57 19.1
i! 20.4

iP 19 25 16.0
i(S) 26 08.6
i 30.7

10th February

eP 00 01 09.5
i! 11.5
iS 05 43.5
i 49.5

i 00 16 33.5

i(P) 00 35 11.2

iP 01 21 04.2

eP 02 04 23.5
i! 25.2

iP! 15 45 29.3 Felt Rabaul 04.11S, 152.10E Int. 2 MM

sub surface = 21 sec

iP 18 54 47.5
e 56 39.5

iP 21 51 03.6
i! 04.4 " " " " " 2 "

e 23 26 59.5
e 29.3

11th February

iP 08 29 49.5 " " " " " 2 "

iP 10 36 21.6 " " " " " 2 "

e(P) 16 43 48.0
i 48.7
e 47.2

eP 20 59 59.5
i 21 00 02.0
e 02 55
i 03 07.2
i 17.0
e 08 29.0
e 12 10.0
i 17.5

iP 21 30 45.0

Interpreted by J. Barrie.

G.A.Taylor.
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA

SEISMOLOGICAL OBSERVATORY RABAUL

Provisional Readings - 19th February 1960.

12 th February 1P! 01 30 22.7
Dilatation
eP 04 46 52
Confused by microseisms
1P! 08 52 23.2
Compression
eP 11 53 24
1 28.7
1 45.6
1P 14 11 45.5
1 48.2
1 12 13.7

13th February ✓ 1P 15 46 39.6
1 41.5
1 47 11.0
e 49 29

14th February e 15 49 11
1 25
1P 18 51 25.3
1 26.5
1 23.6
1 59.7

16th February 1P 03 05 25.9
1 27.7
1 35.6

17th February ✓ 1P 12 45 30.1
e 46 07
1P 16 52 00.9
Dilatation
1 50.3
e 53 32
1 54 59.1
Deep

18th February e 19 31 36
1 52.3
1 21.5
e 21 44 58
e 45 10
Confused by microseisms



C.A. Taylor,
Seismologist.

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revisiional readings - 27th February, 1960.

19th February ✓ eP 10 49 06
 ✓ i 06.5
 i 50 49.0
 i 52 03.5
 e 53 11
 e 59 10
 e 11 00½

1P! 11 11 26.5
 Compression.

1P! 20 09 37.5
 Dilatation.

eP 22 20 04
 i 11.5
 e 57

20th February eP 06 11 46

21st February ✓ 1P! 00 54 45.7
 ✓ Compression.

1(S) 01 01 03.2

✓ eP 09 45 13
 ✓ e 47 41
 e 49 46
 e 50 32
 e 54 32

eP 22 48 34

22nd February ✓ e(P) 01 05 35
 ✓ Confused by microseisms.

eP 07 04 46

1P 18 37 34.6
 i 38 30.8
 i 39 03.7
 i 41 07.8

23rd February ✓ e 08 18 09
 ✓ i 24

✓ i 11 39 32.0
 ✓ e 41 44

✓ 1P! 16 05 40.5 Felt Rabaul 04.118, 152.10E Int. 2 MM
 " Londolovit 03.058, 152.40E Int. 4 MM

24th February e(P) 08 45 39

✓ eP 21 38 23 Felt Rabaul 04.118, 152.10E Int. 1-2 MM
 " Buin 06.50, 155.15E " 3 " "
 " Kieta 06.158, 155.40E " 3 " "
 " Numa 05.508, 155.15E " 2 " "

25th February eP 06 50 28
 eL 51 36

1P 20 57 03.0
 i(S) 58 7.1

Interpreted by G.A.Taylor.



111/

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 VULCANOLOGIST.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 5th March, 1960. Strong microseismic activity 28th February to 3rd March.

26th February 1P 01 11 43.7
 i! 48.8
 ✓ x 1P 02 11 59
 1 12 05.5
 ✓ 1 10.1
 1 14 53.5
 c 15 29

c(1) 12 19 32
 c 47

1P 14 54 00.2
 1 55 06.5

27th February 1P 09 55 54.7
 1 57 02.7

1P 13 59 08.9

1P 14 24 37.9
 1 40.8

1P 14 57 35.2

1P 15 11 15.7
 c 12 19

1P 23 12 06.1

28th February ✓ x Heavy microseisms.

1P 23 08 (08) Felt Aitape 03.108, 142.20E Int. 3-4 MM
 record mutilated " Lumi 03.303, 141.55E " 4-5 "

29th February Heavy microseisms.

1st March " "

2nd March " "

3rd March " "

1P 01 03 42.2



Seismograms read by G.A.T.

MAF

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 19th March, 1960.

4th March ✓ 1 02 26 02.3
confused by microseisms.

✓ 1(P) 04 00 40.1
CS 04 45
confused by microseisms.

1P! 10 00 11.6 Felt Rabaul 04.11S, 152.10E Int. 1 MM

1P 17 12 40.0
1S 58.1

OP 13 54 33.9
1! 34.6
1 57 01.0
e 58 51
1S 59 02.1

1P 14 17 38.7

1P 14 39 26.7
1 29.5

1(P) 15 09 11.4

OP 15 55 13
1 15.6

6th March ✓ 1P 02 27 29.9

7th March ✓ 1(P) 05 13 01.5
1(P) 12.0
confused by microseisms.

✓ 1P 05 19 00.2
1! 01.6
1 20 12.0
deep?

e(P) 09 40 40
1 51.1
confused by microseisms.

8th March e(P) 12 01 41

✓ 1P! 16 37 59.6
1(S) 41 32.9
1! 49 03.6

1P 17 12 03.1

1P 17 21 17.8
e 22 43
e 24 49

1P 20 18 26.0

9th March 1P! 01 06 41.8

1P 01 49 22.2
eL 51.5

Felt Bam 03.35S, 144.50E Int. 3 MM

e(P) 07 20 46



Provisional readings - 19th March 1960 cont.

9th March 1P 17 57 43.2
 1S 58 37.0
 1 39.4

eP 19 45 18
 1! 22.1
 1! 46 25.0
 deep

10th March e(P) 00 13 16
 1 30.0
 1 15 38.6
 e 16 45

e 00 50 06

e(P) 02 33 32

e(P) 09 16 44

~~eP 09 47 41
 1 49 16.9
 1 23.8
 1 35.1~~

1P 14 41 36.0

11th March eP 16 29 49

12th March 1P! 02 15 30.0

~~1P! 20 31 17.7 Felt Rabaul 04.11S, 152.10E Int. 3 MM
 1P 22 52 06.0~~

13th March 1P! 00 21 20.8

14th March 1P 08 47 42.2

1P 11 25 33.6
 1! 34.3

Seismograms read by J.B.

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU

Provisional readings - 25th March, 1960.

15th March	iP	09	31	15.9
	iP	20	11	53.5
	i(S)!	12		20.2
16th March	e(P)	17	46	19
	e		48	48
	e		52	36
	i			4.1
	iP	19	23	28.2
	i			47.9
17th March	e(P)	19	27	12
18th March	iP	06	56	28.9
	i!			29.7
	eP	12	17	15
	i			15.8
	i!			17.8
	iP!	14	02	13.0
19th March	e(P)	09	26	28
	e		27	18
	iP	19	19	00.1
	i!			08.3
	i			33.6
20th March	eP	13	36	03
	e(P)	13	45	03
	iP	14	02	50.6
	i		03	29.9
	e		06	24
	eP	17	15	40
	i			43.3
	i		22	23.1
	i			28.1
21st March	e(P)	00	43	02
	confused by microseisms.			
	e	08	30	05
	eP	09	26	33
	e	11	47	20
	iP!	16	38	26.0
	e	20	08	12
	i			23.0
	i		11	32.8
22nd March	eP	02	41	06
	e	10	31	14
	eP	13	58	24
	e	17	58	27

23rd March	eP	00	31	32
	i			41.1
	i(pP)			56.2
	i(S)	34		00.8
	eP	01	15	26
	i			29.2
	iP!	01	34	03.2
	Felt Rabaul 04.11S, 152.10E			
	Int. 4			
	Felt Gavit 04.12S, 159.40E			
	Int. 4			
	Felt Karlai 05.10S, 152.00E			
	Int. 4			
	Felt Rangarere 04.15S, 144.14E			
	Int. 4			
	e	08	55	01
	eP	09	38	22.5
	e(P)	10	36	57
	e	13	59	05
	e(P)	14	57	15
	i			21.8
	iP	18	22	20.1
	eS		23	04
	eP	22	30	43
	e		32	28
24th March	e(P)	06	03	29
	e			46
	iP	08	48	05.7
	i!			06.1
	eP	20	55	08
	i!			08.7

Seismograms read by J.B.

G.A.TAYLOR.
VULCANOLOGIST.



Provisional readings - 1st April, 1960.

25th March X ✓
 o(P) 02 34 58
 i 37 33
 i 34.8
 i 39 28
 i 40 40.2
 i 41 26.8
 e 44.2
 e 44 42

Record confused by microseisms. Probably 2 shocks.

o(P) 06 32 01
 i 08.3

oP 14 28 42
 i 46.9
 i(S) 29 13.9

26th March 1P 00 50 32.8
 1S! 51 18.8
 deep.

1P 01 54 30.5
 i 55 39.9
 i 49.3

1P 22 52 41.4
 1S! 53 00.8

27th March X ✓
 oP 03 52 19
 i 20.5
 e 58 14

1(P) 05 02 34.5
 Confused by microseisms.

X ✓
 oP 09 01 46
 i 48.7
 i 56.8
 i(P) 02 11.0
 e 05.8

e 12 26 (57)
 Confused by microseisms.

oP 12 38 09
 i 15.7

o(P) 17 32 07
 e 34 19

1P 19 24 26.2

oP 19 39 07
 e 26

X ✓ 1P! 23 32 29.2 Felt Rabaul 04.118, 152.10E Int. 1 (H)
 1(S)! 35.2
 deep.

X ✓
 1P! 23 35 44.9
 1! 37 05.2
 1! 41.4
 eS 41 35
 deep?



WJF

28th March 1960

~~✓~~ ✓
~~✓~~ ✓
~~✓~~ ✓
~~✓~~ ✓

1P 06 40 03.0
 0 46 44
 OP 06 35 29
 11 33.9
 1 37 15.6
 1P! 08 45 26.8
 1P 22 11 40.0
 11 40.5

29th March

Felt Loo 06.458, 147.008 Int. 2 MM
 " Finschhafen 06.403, 147.508 Int. 4 MM
 " Pindiu 06.258, 147.35 E Int. 3-4 MM

30th March

OP 00 48 49
 1 50.5 " Pindui " " " 1 MM
 IP 00 53 32.1 " Pindui " " " 1 MM
 OP 01 28 20
 1! 20.3
 1 29 24.9 " Pindui " " " 2 MM
 IP 02 49 08.6 " Pindui " " " 1 MM
 IP 04 19 21.4
 1! 24.9
 IP 04 29 56.5
 o(P) 09 42 40
 o(S) 45 14
 1 25.8
~~✓~~ ✓ OP 10 53 51
~~✓~~ ✓ OP 15 25 19
~~✓~~ ✓ o(P) 23 47 18

seismograms read by J.B.

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 8th April, 1960.

31st March o(P) 03 32 10
 1P 18 18 48.4
 1! 49.1

1st April Nil.

2nd April 1P 00 54 25.5

eP 00 58 53
 1! 54.2
 1 59 05.7
 1S 01 00 02.9

1P 01 54 25.5

1P! 14 15 16.4
 1S! 38.9

1P 16 10 39.9

3rd April 1P! 08 27 50.0
 1S! 05.6

1P! 10 53 13.6

4th April 1P 00 17 32.8

~~1P~~ 07 58 52
~~1!~~ 54.6
 multiple shock?

1P 10 21 56.8
 1 23 22.0
 1 24 10.3

1P! 12 45 49.9 Felt Rabaul 04.11S, 152.10E Int. 3 MM
 " Karlai 05.10S, 152.00E " 4 "

eP 14 34 10
 1 13.3
 eS 40

eP 20 59 30

5th April Nil.

6th April eP 17 03 28
 o 04 12
 1 16.0

7th April ~~1P~~ 13 53 28.4
~~1PcP~~ 55 56.1
~~1S~~ 58 55.8
 eScS 14 03 01
 eP 16 42 29
 eP 20 07 50
 1 53.1

Seismograms read by J.B.



G.A. TAYLOR
 VULCANOLOGIST.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 16th April, 1960.

8th April	e(P)	04	50	00						
	iP	08	37	07.9						
	iP	14	24	04.8						
	i		27	18.1						
	i			35.5						
9th April	Nil.									
10th April	Nil.									
11th April	iP!	03	28	57.4						
	iP	08	53	31.2						
	i(S)			55.7						
	eP	16	04	(56)						
	confused by microseisms.									
	iP	17	53	54.5						
12th April	iP!	11	32	23.1	Felt Rabaul	04.11S,	152.10E	Int.	3	M
	iP!	11	41	19.0	"	"	"	"	"	2
	iP!	16	16	34.0	"	"	"	"	"	2
	iP!	21	46	15.9	"	"	"	"	"	3-4
13th April	iP!	01	01	28.9						
	iP!	19	35	45.5						

Seismograms read by J.B.

G.A.TAYLOR.
VULCANOLOGIST.

UAT



TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 23rd April, 1960.

14th April iP 07 23 09.3
Compression
i(S) 24 00.0

15th April ✓ ~~iP~~ 03 38 52
✓ ~~i~~ 57.6

iP 04 17 20.7
i 18 03.6

iP 06 50 52.8

~~iP~~ 11 47 15.5
~~i~~ 46.9
~~i~~ 48 00.8
~~e~~ 49 02

eP 20 29 36
e(L) 30 41

~~iP~~ 22 09 04
✓ ~~i~~ 13.8
✓ ~~e~~ 46
e 10 27
i 11 07.0
e 12 32

16th April Nil.

17th April iP! 12 12 12.7
Dilatation

18th April ✓ ~~iP~~ 08 14 41
✓ ~~e~~ 15 45
e 16 58 23

19th April Nil.

20th April iP 15 49 03.1
i 41.3
eP 21 39 42
i 46

Seismograms read by G.A.T.



G.A.TAYLOR.
VULCANOLOGIST.

TERRITORY OF PAPUA AND NEW GUINEA.
VULCANOLOGICAL OBSERVATORY SARAIU.

Provisional readings - 30th April, 1960.

21st April	eP i e	16 29	04 16.4 58
22nd April	eP e e e	11 56 58 12 01	35 08 06 59
	iP i i i e e e	20 33 34 35 40	05.5 11.6 50.5 02.5 18 36 21
23rd April	eP e e	10 33	36
	eP e e	17 07	02 14 46
	eIP	17 58	22.7
	eP i	23 55 56	59.5 00.6
24th April	iP i i i i e e	03 29 30 33 35 36 39	02.6 33.1 54.4 49.4 30.0 27 11
25th April			Nil.
26th April	eP i e e	11 24 25	38 40.6 02 18
27th April	eP e	11 08 09	03 48
	eP e e(L) e	16 57 58 59 17 00	54 23 36 46
	iP i i o(L) e e e i(T) e e	17 13 14 15 16 17 18 19	05.7 26.7 26.7 39 15 02 30 07.6 04 39
28th April	iP i i i e e	05 10 11 13	01.2 06.7 12.7 16.7 49 14



W.H.

G.A. TAYLOR.
VULCANOLOGIST.

Provisional readings - 7th May 1960.

29th April

✓ X	1P	09	59	48.5	May 3rd	1P	13	27	17.3
						1		41.4	41.4
✓ X	OP	10	12	34		1		28	25.7
✓ X	e		13	26		1		29	10.2
						0		33	20
✓ X	1P	13	39	38.2					
	1		40	22.6		1P	18	58	11.2
	1P	15	35	48.6					

Seismograms read by G.A.T.

G.A. TAYLOR.
VULCANOLOGIST.

30th April

	1P	18	02	03.0
	1P	19	19	19.6
✓ X	1P	19	38	32.7
	0		42	00
✓ X	e		43	36
✓ X	1P	20	50	47.6
	1P	00	26	29.4
✓ X	OP	04	07	52
	1P	08	47	24.8
	1P	10	17	41.5
	1		19	00.4
	1P	13	17	49.4
	1P	14	18	48.6
	e		19	45
	1		20	07.3
	e		21	52
	e		21	29
	e		22	51
	1P	16	37	48.3
	1		38	51.9
	e	21	36	25
✓ X	1P	22	15	14.9
	1		13	48.9



mt

1st May

Nil.

2nd May

OP	11	18	23
1P	11	57	53.4

✓ X	1P	12	16	32.4
	Dilatation			
	1	17	50.2	
	1	18	25.6	
	0	21	35	
	Deep.			

e 14 47 03
eP 15 32 27

3rd May

✓ X	eP	08	02	38
	1(S)		05	22.2
	1P	11	28	05.4

Provisional readings - 14th May, 1960.

4th May 1P 10 41 11.8

1P 11 01 47.5

e 14 20 20

~~1P~~ 18 32 57.6
~~e(s)~~ 35 15

eP 22 01 32

1 33

e 02 57

5th May ~~1P~~ 11 35 39

~~1(P)~~ 17 22 10

eP 23 03 04

eP 23 22 13

e 23 06

eP 23 46 10

e 47 03

e 24

6th May eP 00 02 06

e 03.5

~~1P~~ 18 58 (08)

7th May ~~1P!~~ 13 57 (22) Fort Rabaul 04.118, 152.108 Int 2 MM
 Dilatation

8th May ~~e~~ 14 38 (13)

1P 15 48 (43)

9th May 1P 09 00 (36)

10th May 1P 18 24 (57)

e 23 11 (49)

11th May ~~eP~~ 18 40 (51)

e 42 (47)

e 56

e 43 (20)

e 44 (44)

Initial signature mutilated by local shock.

12th May eP 11 28 19

eP 16 18 08

1P 19 16 14.0

1 21.0



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 VULCANOLOGIST.

WHT

N.B.
 Fault in regulator dial of master clock. Times uncertain
 6th to 11th inclusive. Correction of + 46 seconds added
 to all readings for these six days.

Seismograms read by G.A.T.

CONTINUATION.

12th May eP 11 29 05
 eP 16 18 54
 1P 19 17 00.8
 i 07.0

Provisional readings - 21st May, 1960

13th May e(P) 03 52 29.1
 51.9

~~eP 16 16 26~~
~~i 26.8~~
~~i 42.3~~
 e 19 44
 e 21 01

eP 18 56 24 Felt Telefonin 05.108, 141.358 Int 4 MM

e(P) 20 25 49

1P 20 54 01.6
 e 55 47

eP 20 57 20

eP 20 58 53

eP 21 05 57

14th May ~~eP 22 29 42.0~~

15th May 1P 03 00 48.5
 i 01 13.8

1P 10 27 16.0

1P 10 32 21.0

16th May 1P 19 46 25.8

17th May 1P 21 11 24.8
 Dilatation

18th May 1P 01 29 01.8

~~1P 06 42 36.8~~
~~e 48.6~~
~~e 49 31~~

eP 18 15 09

i 33

e 20 06

Seismograms read by G.A.T.

Wt

G.A. TAYLOR
VULCANOLOGIST.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 3rd June, 1960.



19th May ✓✓ e 10 24 (43)
confused by microseisms.

iP! 13 03 31.9

20th May eP 00 11 51
i(S) 12 45.7

eP 00 25 34

✓✓ iP 11 18 29.0

e(S) 23 19

i 26.5

i(P) 12 15 15.7

e 14 11 29

iP 17 48 18.3

iP! 19 38 09.0 Felt Rabaul 04.11S, 152.10E Int. 4 MM
" Taliligap 04.20S, 152.05E Int. 4 MM
" Karalai 05.05S, 152.00E Int. 4 MM
" Lolabau Int. 4 MM

21st May ✓✓ iP 08 24 05.5 24th May e(P) 06 34 46

✓✓ eP 10 21 44

✓✓ i 23 19.7

✓✓ e 39 19

✓ eP 14 54 28

i 29.2

i 32.5

✓✓ e 11 12 48

✓✓ e 14 12

✓ eP 16 38 40

i 46.4

✓✓ e 13 18 (48)

✓✓ e 20 19

✓✓ e 36.2

✓ eP 19 52 55

i(S) 53 57.1

i! 54 02.7

iP! 14 13 14.3

iS 40.3

25th May eP 02 45 36

i 38.1

eP 15 21 29

i 32.5

✓ eP 08 53 21

e 54 12

i(P) 19 11 49.1

e 09 03 18

e 58

22nd May iP 01 04 01.1

i 42.9

✓ eP 10 20 52

✓✓ e(P) 10 49 39

✓✓ e 50 11

✓✓ e 51 04

✓ iP 13 43 04.4

i(pP) 41.9

e 56 03

✓✓ i(P) 10 51 39.7

✓✓ i(S) 53 11.1

in coda of preceding.

✓ iP 14 32 57.8

i(pP) 33 49.3

i(P) 11 03 47.2

in coda of preceding shocks.

✓ eP 15 05 01

i 03.9

i 22.6

i 07 32.6

i 10 22.5

e 11 03

i 14 23.3

e 16 22

✓✓ eP 19 14 53

✓✓ i 15 18.6

✓✓ e 16 27

✓✓ i(P) 19 30 00.4

in coda of preceding

i(P) 17 05 01.9

25th May iP 17 32 37.8
e 36 10

26th May eP 02 32 14
i 19.7

iP 11 15 02.4
i 28.6
i! 39.4

~~iP 20 15 51.6~~
~~i(pP) 16 04.6~~

27th May iP! 04 35 50.8

iP 19 46 00.8

iP! 20 10 16.0 Felt Taliligap 04.20S,152.05E Int. 2 MM

iP! 20 15.5
in coda of preceding.

iP! 22 06 06.9

iP! 22 21 22.7

28th May iP! 00 59 10.6

iP! 07 11 57.4 Felt Gavit 04.12S,151.39E Int. 1-2 MM

iP! 18 32 21.6

29th May iP! 17 43 39.6
iS 44 08.6

iP 20 03 51.0
i(pP) 04 17.6

30th May Strong microseismic activity.

31st May iP 10 21 53.4
i 25 32.2

iP 12 12 24.8
i! 27.9
eS 13 25

1st June iP! 18 28 36.9

2nd June ~~iP!~~ 07 47 48.0 Felt Rabaul 04.11S,152.10E Int. 4-5 MM
deeper than normal " Karlai 05.05S,152.00E Int. 4' MM
" Rangarere 04.15S,151.35E Int. 3 MM
" Palmamal 05.35S,151.30E Int. 6 MM

Numerous small aftershocks with
S-P = 24 ± 1 second.

Seismograms read by J.B.

G.A.TAYLOR.
VULCANOLOGIST.

1447

Provisional readings - 10th June, 1960.

3rd June 1P! 07 38 50.4 Felt Lolobau 04.55S, 151.10E Int. 4 MM
 " Palmamal 05.35S, 151.30E Int. 3-4 MM
 " Taliligap 04.20S, 152.05E Int. 4 MM

~~1P~~ 13 20 12.8
~~e~~ 24 23
~~1(S)~~ 34.2
~~1~~ 25 37.4

~~1P~~ 13 29 12.5
~~1~~ 33 31.2
~~1(S)~~ 33 33.7
~~1~~ 34 36.3
~~1~~ 38 35.5

1P 13 51 09.9

~~1P~~ 16 26 26.3
~~1(pkp)~~ 44.8
~~e~~ 33 04
~~e~~ 10

4th June eP 07 25 58
 1! 59.4
 1(S) 27 01.2

1P 10 20 16.2
 1(pkp) 44.5

1P 23 45 01.5

5th June eP 03 38 12
 e(S) 47

1P! 04 17 29.0
 1S! (52)

1(P) 06 12 02.5

eP 19 38 08

6th June e(PKP) 05 14 33
 e 15 22
 1 33.3

~~1P~~ 13 07 04.3
~~e(pkp)~~ 34

~~1P!~~ 20 42 20.7

~~1P~~ 16 39 32
~~eP~~ 45.6

~~1P~~ 21 14 33.3
~~1~~ 47.9

9th June ~~1P~~ 11 28 48.0
~~e~~ 32.8

~~eP~~ 15 12 19
~~1~~ 22.6

Seismograms read by J.B.



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1627

TERRITORY OF PAPUA AND NEW GUINEA.
VULCANOLOGICAL OBSERVATORY RABAUL.

Provisional readings - 2nd July, 1960.



10th June eP 11 36 51
i 53.7

~~eP~~ 12 03 54
~~i(pP)~~ 04 12.9

eP 19 57 19
e(S) 58 03

11th June ~~i(P)~~ 00 56 43.5
i 57 19.0

~~eP~~ 15 15 27
~~i~~ 27.8
~~i!~~ 30.6
i(L) 16 (30)

~~eP~~ 16 30 50
~~i~~ 50.6
eS 31 36
i(L) 49.4

~~iP!~~ 16 38 59.2

eP 17 01 (37)
i(L) 02 36.6
in coda of preceding.

eP 17 09 12
i 13.5
i! 21.6
e(S) 10 (04)

eP 20 05 27
i(L) 06 29

eP 20 56 (14)
i 16.5
i(S) 57 08.7
i(L) 15.6

eP 21 49 48

eP 22 34 35
i(S) 35 26.0
e(L) 36

12th June iP 00 50 37.5
i(S) 51 24.0
i(L) 27.2

~~e(P)~~ 04 06 (51)
~~i(S)~~ 11 50.4

~~i(P)~~ 07 07 17.6
~~e(S)~~ 10 40

~~eP~~ 07 22 16
~~e(S)~~ 23 08
~~i(L)~~ 18.8

eP 10 39 (11)
i(L) 40 08.9

Felt Woodlark Isl.
09°S, 154°E Tremor
swarms continued
for following
week. Several
small tsunamis on
south east coast.

12th June eP 14 30 33
e 31 29
i(L) 32.6

eP 15 21 58
i 22 03.4

e(P) 15 22.6
e(S) 23 (29)
e(L) 41
in coda of preceding.

eP 16 34 40
ei(L) 35 39.4

e 17 07 07

eP 21 02 18
i 19.1
iS 03 04.4
i(L) 19.4

13th June eP 06 58 55

eP 08 42 53
e 43 01

e(P) 11 57 53

14th June iP 14 36 05.6
i! 06.2

eP 16 21 23
eS 22 09

iP 18 59 17.4
Deep.

iP 19 33 48.8

iP 19 35 51.7
i(PPP) 36 06.3
i(S) 37 11.0
Deep.

e(P) 22 05 (03)

14th June ✓ eP 23 39 28 20th June iP 12 10 18.2
 ✓ i! 30.6
 ✓ i! 22.6

15th June eP 02 17 46 ✓ e(P) 13 18.4
 e(S) 22 07 ✓ i 20 07.2
 e 26 21 ✓ e 28.4
 ✓ e 36.0

iP 08 10 32.9
 i! 34.8
 iS 11 19.6
 iP! 12 00 31.0
 iP! 13 23 17.8
 i(S)! 37.4
 Deeper than normal
 iP 21 26 41.1
 i 27 29.3
 i(S) 33.0
 i(L) 43.6
 Deep.

21st June eP 12 49 10
 i 10.9

22nd June No record.

23rd June iP 12 13 39.2
 i 51.9

24th June Strong microseismic activity.

25th June e(P) 02 09 (59)
 ✓ e 12 14

✓ x iP 15 45 06.9
 iP 17 28 13.9
 i! 20.9
 i 55.2
 ✓ x iP 22 53 07.2
 ✓ i 57.1
 ✓ x eP 23 32 09
 ✓ i 13.2
 ✓ x eP 23 38 (55)
 in coda of preceding.

iP 03 55 40.3
 i! 42.6

✓ x iP 14 12 59.8

eP 14 16 14
 i! 14.9
 e 17 17
 i 27.0

16th June iP 09 12 41.5
 i(P) 09 59 43.6
 Confused by microseisms.

✓ x eP 14 49 11
 i! 15.8
 i 51 11.5

oP 15 11 04
 i(S) 47.8
 i(L) 12 04.0

i 55 16.8
 e 27
 i 29.4
 i 56 03.8
 e 59.4

17th June ✓ x iP 16 46 08.1
 ✓ i(P) 16.1

18th June iP 03 20 24.6

✓ x iP 19 54 28.2
 i(pP) 54 55.9
 e(S) 57 35
 i 20 07 09.8

19th June eP 09 46 23
 i 47 09.8
 i 45.4
 i 48 12.8
 e(L) 22
 double shock?

e(P) 21 15 (54)
 i 16 01.2

✓ x iP 12 27 30.5
 ✓ x iP 12 43 22.6
 iP! 14 31 21.8
 i(S)! 32 01.4

Seismograms read by J.B.

✓ x eP 17 24 07

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 VULCANOLOGIST

20th June EK
 ✓ x e(P) 02 20.0
 ✓ e 37.5

eP 02 48 32
 eS 49 44

26 54
 57.2

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 9th July, 1960.

26th June	i(P)	15	11	17.1	6th July	eP	23	22	57
	i(P)			36.3		1P!	23	37	01.8
	1P	15	56	25.9					
	e	15	01.1						
	eP	22	14	19					
	i!			25.1					

Seismograms read by J.B.

27th June i(P) 11 27 39.1
confused by microseisms.

✓~~x~~ 1P 16 58 00.6
✓~~x~~ i 16 58 06.9

28th June Nil.

29th June No record.

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VULCANOLOGIST.

30th June 1P! 04 35 04.2
eP 09 57 33
i 35.1
i 10 03 05.2
1P 12 09 45.7
✓~~x~~ e(P) 20 10 (26)
confused by microseisms.



1st July eP 17 44 47
i 48.1
i 45 01.1
e(P) 18 47.9

2nd July 1P! 02 51 40.3
1S! 52 10.2
1P 07 58 27.6
i(S) 59 28.3
i 39.3
e(P) 11 18 (23)
i 49.4
e 20.5

Felt Pindiu 06.25S, 147.35E Int. 2 MM

✓~~x~~ eP 12 14 30
✓~~x~~ e 16 46

3rd July ✓~~x~~ 1P 20 30 56.8
✓~~x~~ e 39.2

4th July Strong microseismic activity.

5th July " " "

6th July ✓~~x~~ 1P 05 29 03.8
1P 05 37 54.8
eP 14 48 22
e 52 22
1P! 16 05 23.8
deep.
19 02 19

Handwritten signature

Provisional readings - 15th July 1960

7th July Strong microseismic activity.

8th July ✓ 1(P) 12 58 58.2
confused by microseisms.

1P 14 49 50.1

9th July 1P! 04 50 17.8
deep.

1P 09 06 17.8
1pP 28.9

1P! 14 12 26.0
1P! (42)

10th July ✓ 1P 00 14 45
1! 50.1
1 59.8

1P 05 54 19.3

oP 11 22 55
e(S) 23 57
1 59.2
1! 24 03.1

11th July ✓ 1P 12 02 22.5
o 04 55
1! 56.2

oP 15 36 51
oP 37 38

12th July 1P 13 47 27.2

oP 21 39 32

13th July o 14 33.3
o 33 11

1P 16 05 19.2

oP 17 05 16
eS 06 13

Seismograms read by J.B.



G.A. TAYLOR
VULCANOLOGIST.

J.B.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 23rd July, 1960.

14th July

✓
eP 10 32 (34)
confused by microseisms.

i(P) 11 15 05.1
confused by microseisms.

15th July

eP 02 11 (59)
e(S) 12 (43)
i 12 47.2
confused by microseisms.

16th July

Strong microseismic activity.

17th July

1P 23 37 14.9

18th July

1P! 01 43 34.7 Felt Karlai 05.053, 152.00E Int. 5 MM
deeper than normal " Rangarere 04.153, 151.35E Int. 5 MM
" Gavit 04.123, 151.39E Int. 3-4 MM
" Rabaul 04.113, 152.10E Int. 4 MM
" Palmalal 05.353, 151.30E Int. 4 MM
" Karoela 05.103, 151.35E Int. 4 MM

19th July

1P! 10 46 01.8 Felt Rabaul 04.113, 152.10E Int. 2 MM
1P 13 03 17.1
1P! 14 12 01.5
1P 18 33 46.6

20th July

eP 00 20 (16)
eS 21 (13)
confused by microseisms.

1P 00 25 29.3

1P 02 26 27.9
i 32.2

1P 02 48 02.6

✓
1P 09 39 59.0
i 59.6

1P! 10 51 13.5

eP 21 04 17
i 18.6
i 30.5

1P! 23 25 41.9

Seismograms read by J.B.



Handwritten signature

G.A. TAYLOR
VULCANOLOGIST.

Provisional readings - 29th July, 1960.

21st July	1P	13 02	42.0	
22nd July	Nil.			
23rd July	Nil.			
24th July	oP	09 59 (13)		
	1		21.4	
	oP	19 53	05	
	1(6)		53.1	
	1	54	00.2	
	1		09.3	
	1P!	21 12	29.4	
	S-P 31 secs. approx.			
	1P	21 52	50.8	
	25th July	1P	03 51	18.3
1(pp)			32.6	
1P		11 31	45.2	
1pp		22	19.6	
1		23	26.9	
oP		29	35	
1P			39.5	
1P!		11 47	49.3	
1(6)		48	33.3	
1			44.6	
deep.				
o(P)	11	51.0		
o		51.3		
1	51	41.2		
oP	13 12	55		
oP	20 00	28		
1		30.7		
1P	21 33	47.3		
oP	21 37	49		
1		51.9		
oL		38.7		
1P!	23 49	02.0		
26th July	1(pp)	00 04 (47)		
	1(6)	05 (19)		
	P lost during record change			
	1P	17 37	56.1	
	1!		57.3	
27th July	1P!	04 32	19.3	
	1P!	14 11	22.1	
	1P!	15 11	52.8	

Seismograms read by J.B.



TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY RABAU

728

No readings 28th, 29th and 30th July due to an error in timing circuit.

Provisional readings - 5th August, 1960.

31st July	1P!	02	56	31.4	Felt Karlai 05.058, 152.00E Int 3 (MM)
					" Rabaul 04.118, 152.10E Int 4 "
					" Kandrian 06.158, 149.35E Int 4 "
					" Palmalal 05.358, 151.30E Int 4-5 "
					" Walindi 05.208, 150.05E Int 5 "
					" Wanigola 09.208, 149.10E Int 3 "
					" Taliligap 04.208, 152.05E Int 3 "
	1P!	07	05	18.2	" Karlai 05.058, 152.00E Int 2 "
					" Rabaul 04.118, 152.10E Int 2 "
					" Kandrian 06.158, 149.35E Int 1-2 "
					" Walindi 05.208, 150.05E Int 3 "
					" Taliligap 04.208, 152.05E Int 2 "
	1P!	07	45	33.6	" Palmalal 05.358, 151.30E Int 3 "
	1P!	09	07	20.8	" Walindi 05.208, 150.05E Int 2 "
	1P!	09	22	52.8	" " " " " 2 "
	oP	10	46	48.4	
	i			51.6	
	i!			54.9	
	oP	10	49	49	
	i!			53.6	
	1P	13	22	35.9	
	i!			38.3	
	1P	16	30	41.1	
	1P	18	47	15.1	
	i!			15.6	
	oP	21	42	03	
	i!			07.3	
	1P!	22	34	43.8	
	1P	22	45	45.6	deep
1st August	1P	01	21	15.5	
	i			50.1	
	1P	02	05	13.4	
	1P	12	21	28.9	
	IS		22	07.9	
	1P	12	55	34.8	
	1P!	16	29	12.5	Felt Rabaul 04.118, 152.10E Int 2 (MM)
	1P!	18	19	43.5	
2nd August	1P	05	12	57.2	
	1P	09	37	45.2	
	1P!	12	32	59.8	
	1P!	22	23	42.2	
	1P!	22	33	47.7	Felt Rabaul 04.118, 152.10E Int. 2 "



Md

Provisional readings 5th August 1960 Page 2

3rd August 1P! 21 32 59.4

4th August 1P 04 09 59.9
1! 10 02.2

1P! 06 50 11.6

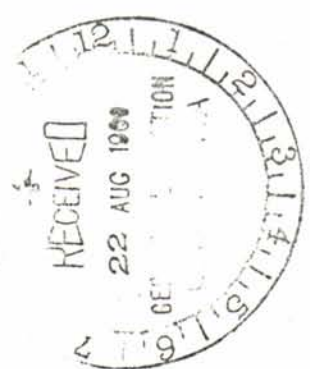
✓ 1P 07 44 ✓ 52
1 55.3

Seismograms read by J.B.

G.A.TAYLOR
VULCANOLOGIST

Provisional readings - 19th August, 1960

5th August	IP	02 35	36.4	
	IP	03 10	29.5	
	Joep.			
	oP	10 02	38	
	eP	20 04	05	
6th August	Nil.			
7th August	IP	02 10	53.6	
	a(8)	11	51	
8th August	IP:	16 48	59.9	Felt Rabaul 04.118,152.108 Int. 2 MM
	Joep			
9th August	IP	16 53	20	
	IP	23 40	30	
	1		33.6	
10th August	Nil.			
11th August	IP!	02 59	35.0	
	IP	04 58	32.4	
12th August	Nil.			
13th August	IP!	00 15	32.0	
	IP	02 38	45.1	
	oP	06 11	39	
	1!		42.8	
	IP	07 19	(19)	
	1		20.5	
				confused by microseisms.
	IP!	15 54	08.9	
14th August	oP	00 26	37	
	1		40.1	
	IP!	01 08	00.5	
	IP	14 42	41.1	
	1!		42.0	
	1!	43	28.5	
	1S	44	10.9	
	1!		26.7	
	1		39.5	
	oP	20 00	26	
	1!		26.8	
	1(pP)		34.9	
15th August	IP	10 05	53.4	
	oP	16 59	55	
	1	17 00	04.9	
	IP!	21 53	09.1	
16th August	IP!	02 46	17.0	
	IP!	08 14	52.9	
	1!		58.7	
	oP	09 00	(11)	
	e(L)	01 38		confused by microseisms.
	oP	10 06	31	
				confused by microseisms.
	oP	16 42	56	
	1!	43	03.1	
	o(P)	18 35	15	
	1		57.1	
				Seismograms read by J.B.



G.A.TAYLOR.
VULCANOLOGIST.

Provisional readings - 26th August, 1960

17th August	x	eP 1 1	01	32 32 33	46 54.2 53.2	22nd August	Strong microseismic activity.		
		e 1	11	43 44	(55) 01.8	23rd August	eP e(S)	11 31	30 (30) 39
		e 1	14	34	26 41.2	24th August	x 1(P)	01	54 30
		1P 1!	15	53	05.4 20.9		1P 1!	04	27 36.1 36.6
		1P	16	30	19.5		x 1P	19	38 08.1
		eP 1	18	10 11	43 24.5	25th August	1P!	09	51 25.0
		1P e	18	11 14	57.5 52	Seismograms read by J.B.			
		in coda of preceding							
		1(P) 1	20	27 28	24.2 17.9				
18th August		eP e 1	09	27	08 16 17.6				
	x	e(P) 1	20	55	(37) 59.4				
		eP	22	47	32				
19th August		1P 1!	01	38	10.6 11.5				
		eP 1! 1!	16	47 48	58 00.7 06.5				
	x	eP 1! 1(pP)	17	13	34 35.8 47.6				
20th August		1P	01	19	25.7				
		1P!	10	26	32.2				
	x	1P 1!	22	28 29	54.8 10.3				
21st August	x	1P 1! 1!	00	20	06.3 24.9 47.7				
	x	1P!	01	00	12.6				
	x	1P! eS 1 1	12	55 59	18.0 52 58.2				
		1	13	01	47.5				
		1P!	13	56	10.8				
		1P	17	10	51.2				
		eP	17	52 53	38 00				

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VULCANOLOGIST.



MA

TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY RABAU

Provisional readings - 6th September, 1960

26th August	X eP 1	18	31	05 08.7	
27th August	X 1P!	10	21	16.3	
	X 1(P) e	18	25	21.2 55	
	1P	19	26	47.9	
	1!		27	04.0	
	1		28	15.3	
28th August	1P	03	15	35.4	
	1P!	13	14	40.1	
	1S!			57.8	
29th August	1P!	11	47	27.4	Felt Rabaul 04.118, 152.10E Int. 2-3 MM
	S-P Ozari	= 12 secs.			
30th August	1	10	15	37.9	
31st August	eP	16	14	29	
	1P	16	16	58.1	
	e(P)	17	26	46	
	1			48.8	
	e		29	03	
1st September	eP	09	32	(43)	
		in coda small local tremor.			
	X eP	10	39	31	
	1			32.7	
	e			43.2	
	eP	11	19	27	
	e		20	37	
	e		23	16	
	X eP	15	48	54	
	e			51.7	
	X 1P	18	47	27.9	
	X e(P)	20	08	08	
	e		09	05	
2nd September	eP	10	56	28	
	1			34.3	
	X eP	13	56	23	
	1			26.3	
	1		57	02.5	
	1P	18	48	29.6	
3rd September	1P!	08	22	00.7	
	X 1P!	12	42	41.4	Felt Karoola 05.108, 154.35E Int 5 MM
	S-P Ozari	= 48 secs. " Rabaul 04.118, 152.10E Int. 3 "			
	1NE	12	55	41.8	
	in coda of preceding				
	1P	15	54	41.6	
	1(eP)			54.2	



G.A. TAYLOR
VULCANOLOGIST

Seismograms read by J.B.

TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY RABAU

Provisional readings - 16th September, 1960.

3rd Sept. ✓
✓ 1P 23 55 09
1 11.6

4th Sept. 1P 13 05 21.3

1P 15 04 09.3
1(S) 05 14.2

eP 17 07 35

5th Sept. NIL

6th Sept. 1P! 03 51 01.9 Felt: Vunalama 04.20S 151.55E Int2 MM

eP 10 06 00

1P 12 37 07.5
1! 10.1

✓
✓ X eP 14 08 05
e(S) 12.6

7th Sept. e(P) 03 55 46 confused by microseisms

✓
✓ X 1(P) 11 53 39.3

eP 12 14 31

1P! 13 53 47.2

1P 14 14 48.0

1P! 14 17 27.2

eP 17 00 47

8th Sept. 1P! 05 42 40.5

✓
✓ X eP 11 13 29
1 32.2 32.2

✓ X 1P 14 41 46.4

eP 17 01 17

9th Sept. 1P 18 50 21.6

10th Sept. ✓
✓ X 1P 10 50 21.5

1! 22.0

1 55 47.6

e 57 (30)

e 44

eP 14 07 (32)

1(S) 09 57.3 confused by microseisms

11th Sept. eP 10 59 (16)

1 22.0

12th Sept. ✓
✓ X 1P! 12 24 33.7

1pP 42.2

1(S) 30 27.8

13th Sept. eP 20 03 40

W.B.

Seismograms read by J.B.

G.A. TAYLOR

VULCANOLOGIST.



TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY RABAU.

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Provisional readings - 23rd September, 1960.

14th Sept.

iP	16	01	11
iS		02	47
eP	17	01	04
iP	17	13	53
iS		15	27
iP	23	26	02
eS		32	28

Nil.

21st Sept. No time breaks
22nd Sept. Nil

Seismograms read by J.B.

15th Sept.

eP	03	35	37
eP	11	56	45
i			48.5
i(S)		57	36.9
i	17	33	54.7
iP	18	02	56.7
i(pP)		03	02.4
e(S)		07	11
i		09	19.1

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16th Sept. Nil

17th Sept.

e(P)	08	02	(04)
iP	08	14	50.9
i		15	02.0
iP	12	59	42.5
i!			44.3
eP	15	13	06
i			10.0
i			52.4
eL		14	(10)
iP	15	55	34.5
i!			35.3
e(S)		56	26

18th Sept.

eP	00	12	2
e			9
i			16.6

eP	01	17	16
iP	09	45	30.9
eP	15	41	01
i			07.0
eP	18	16	12
i			13.3

19th Sept.

i(P)	12	48	43.7
e	12	51	44
i			48.9
eP	19	20	34
i			36.3
e		23	56

20th Sept.

iP	03	11	23.8
----	----	----	------

time breaks 0330 onwards

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 28th September, 1960.

23rd Sept.	iP! i	21	21 21	03.5 54.3 deep	
24th Sept.	iP	11	14	46.3	
25th Sept.	iP! iP	17	04 35	49.3 22.7	Felt: Rabaul 2-3
26th Sept.	iP!	18	03	21.0	
27th Sept.	eP i	07	22	02 03.3	
	iP!	16	34	56.6	
	X iP i!	18	40	12.0 12.4	
28th Sept.	Nil				



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VULCANOLOGIST.

WGA

TERRITORY OF PAPUA AND NEW GUINEA.

SEISMOLOGICAL OBSERVATORY RAHANI.

728

Provisional readings - 6th October, 1960.

29th Sept.	OP	11	23	35.1	
	1:		25	36.5	
	1 (S)		27	25.2	(B.)
	1		30	04.0	
	1		33	05.5	
30th Sept.	1P	13	50	16.1	
	0 (S)		51	22.1	(B.)
1st Oct.	1P	05	24	41.4	
	1P	08	53	05.5	
	1		54	49.8	
	1P	11	44	24.2	Felt: Rahani 1-2
	1P	16	21	24.6	
2nd Oct.	1			41.6	(N.)
	1			51.5	(N.)
	OP	18	18	13.0	(B.)
	OP			(16.5)	(Z.)
	1			20.0	(B.)
	1			22.8	(B.)
	1			26.5	(B.)
3rd Oct.	1			29.4	(B.)
	1 (S)			40.0	
	0(P)	10	15	31.8	
	1			40.2	
	1			50.7	
	1P	15	38	45.1	
	1P	16	17	29.2	(N.)
4th Oct.	1P	17	11	53.8	
	1:			55.0	
	OP	19	18	09.0	
	1 (S)			43.0	(B.)
	OP	19	58	30.2	
5th Oct.	1			48.6	
	1			56.6	
	1 (S)		59	00.2	(N.)
	OP	09	52	13.1	
6th Oct.	1P	16	57	01.0	
	1P	21	49	51.5	
	Nil				
6th Oct.	1P	04	13	15.4	
	1P	11	37	20.1	



Seismograms read by J.H.L.

G.A. TAYLOR,
SEISMOLOGIST.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional readings - 12th October, 1960.



7th Oct.	iP i!	15	22	18.7 20.2	
	e	15	56	(36)	
8th Oct.	iP! i(S) i!	06	00 07	56.2 14.1 (N) 17.9 (N)	
	eP i	17	41	15 18.8	
	e	19	29	(34)	
	e(P) iP!	20	50 57	(09) CBM 24.0	
9th Oct.	iP iP! e	01 09	41 08 15	37.3 54.1 (24) (E)	
10th Oct.	e(P) eP iP	03 12 12	45 33 42	(30) 53.3 41.7	Felt Rabaul 04.11S, 152.10E. Felt Rangarere 04.15S, 151.35E.
11th Oct.	iP i	14	33	05.8 21.2	
12th Oct.	iP iP! eP i i	17 18 22	17 30 51	18.6 31.5 16.0 19.4 (E) 54.5 (E)	

Seismograms read by J.H.L.

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Vulcanologist.

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

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Provisional readings - 19th October, 1960.

13th Oct. ~~X~~ OP Z 15 02 34.2
 1 Z 34.7
 1 H 36.7
 1 Z 38.1
 1 Z 38.8
 ✓ 08
 e Z 15 31 (51)
 e Z 18 40 49
 1P ZNB 18 40 56.5 Felt Rabaul,
 Int. 2-3 (N.S.)
 04°11'S, 152°10'E.
 Felt Marigat. Int. 2
 (N.S.) 05°05'S,
 152°00'E.

14th Oct. OP Z 15 34 (32)
 1 Z 32.8
 e N.S. 18 01 (09)
~~X~~ 1P Z 21 29 38.2
 1 Z 39.4
 e Z 21 58 (37)



15th Oct. ~~X~~ e Z 02 57 - Power Break
 1P Z 12 13 37.9 1501 - 2000 hrs.

16th Oct. 1P Z 00 16 13.4
 e Z 13 35 (22)

17th Oct. e Z 05 49 (14) No record all day
 confused by microseisms on horizontal comp-
 onents.

~~X~~ e Z 16 04 41
 ✓ i Z 42.1
 e Z 17 16 54

e Z 18 25 (22)
~~X~~ 1P Z 22 18 39.3

18th Oct. e Z 04 54 (08) confused by microseisms
 1P Z 06 15 17.5
 Local

OP Z 14 08 (55)
 1 Z.N. 55.6
 Dilatation?

OP Z 17 43 (18)
 1 Z 20.4
 18 H 44 20.4

e N.S. 18 43 10

19th Oct. Nil

Seismograms read by J.N.L.

G. A. Taylor,
 Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

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Provisional Readings:- 20th October, 1960 - 26th October, 1960.

20th Oct. iP! Z.E. 10 16 56.6
 ✓ ~~X~~ eP Z 11 09 19
 i Z 11 09 20.7
 i! Z 11 09 22.3
 eS N 11 09 56.1
 iS E 11 09 57.6
 i Z 12 01 01.1
 eP Z 11 50 13.7
 i! Z 11 50 14.3



21st Oct. eP Z 11 59 (13)
 i Z 11 59 14.1
 i! Z 11 59 18.2
 iP Z.N.E. 20 14 23.4
 S E 20 14 (55)

22nd Oct. ~~X~~ eP Z 08 24 (33) No record 1324 hrs.
 i Z 08 24 38.8 onwards

23rd Oct. ~~X~~ e Z 06 52.0 -
 e E 17 05 16
 i N 17 05 16.1
 i E 17 05 16.5

24th Oct. iP Z 02 55 28.8
 ~~X~~ ei(P) Z 05 16 13
 iP Z 10 40 56.0
 eP Z 17 09 51
 i Z 17 09 51.8
 i! Z 17 09 52.7
 iP Z 19 44 29.8

25th Oct. eP Z.N. 09 37 46
 i Z 09 37 49.3
 i! Z 09 37 54.9
 i Z 10 30 14.0
 eiP Z 13 50 03
 i! Z 13 50 03.7
 e Z 14 44 31
 i E 14 44 35.4
 i Z 17 06 19.6
 e Z.N. 18 30 (54)
 iP Z 19 26 25.5
 i! Z 19 26 25.8

26th Oct. i Z 19 57 32.1

Beginning obscured by local shock.

G. A. Taylor,
 Vulcanologist.

Seismograms read by J.H.L.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY BADAUL.

Provisional Readings:- 27th October, 1960 - 2nd November, 1960.

Date	Station	Time	Mag	Depth	Time	Station	Time	Mag	Depth				
27th Oct.	e	Z	10	53	39	1st Nov.	1	N	14	10	21.4		
	1	Z			41.8		1	E				37.9	
	1P	Z	12	22	58.9		1P	Z	14	42		58.8	
	1(S)	H		23	35.1		01	E	17	17		07.2	
	e	Z	13	11	20		e	N	19	15		36	
	1	Z			21.8		1	Z				37.4	
	01	Z	13	25	53.8		1	E				38.4	
	e	Z	14	10	(56)		2nd Nov.	0P	E	17	18	12	
	1	Z		11	07.9			0P	ZN				13
	e	Z	16	29	(45)			1	Z				13.8
1P	Z	19	43	44.2	1	N					14.8		
1!	Z			48.6	1	E					15.5		
01P	Z	22	34	20	1!	Z					15.8		
1!	Z			20.8	1!	E					16.1		
1	Z		36	53.4	01	NE		18	18	25			
1P	Z	23	46	38.3									
1!	Z			39.1									
28th Oct.	e	Z	09	53	(45.1)								
	e	Z	12	23	(50.1)								
	1P	ZN	12	58	39.5								
	1P	Z	13	27	48.5								
	1!	Z			49.1								
	1!	N			51.2								
	1	Z		28	13.3								
	1(P)	Z	13	40	54.5								
	1(S)	H		42	08.5								
	e	Z	16	42	26.1								
29th Oct.	e	Z	22	37	03								
	1	E	21	48	59.3								
	01	Z		49	10								
	1P	ZN	07	12	53.1								
30th Oct.	1!	ZNE			53.6								
	e	E	12	37	04								
	0P	Z	15	56	20								
	1	Z			20.8								
	1!	ZNE			23.2								
	1P	H	16	20	25.8								
	0(P)	E			29								
	1(S)	N		21	37.3								
	1P!	Z	23	30	01.6								

Seismograms read by J.H.L.



Local

S-P (Omori) = about 16 seconds

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional Readings - 3rd November, 1960 - 9th November, 1960.

3rd		Nil				
4th	ei	ZE	14	23	40.1	
	i	E			41.1	
	i	N			42.6	
	e	ZE	15	06	(30)	
5th	i	Z			35.7	
	i	E		07	27.1	
	i	E			42.6	
	iP	Z	22	34	03.3	
6th	e	ZE	04	48	04½	
	e	E	06	24	14½	
7th	e	E	13	29	52½	
	i	E			55.3	
	e	ZNE	16	29	45½	
	i	Z			47.7	
8th	i	E			48.6	
	i	N			52.8	
	eP	Z	09	00	19	Felt: Lolobau. Int. 4 (MM)
	i!	Z			19.5	4°55'S, 151°10'E.
9th	iP!	Z	19	15	56.4	Felt: Lolobau. Int. 4 (MM)
						4°55'S, 151°10'E.
9th	e(P)	Z	10	53	(42)	" Rabaul. Int. 1 (MM)
	i	ZE			43.8	4°11'S, 152°10'E.
	i	E			46.5	
	i	N			50.8	



Seismograms read by J.H.L.

G. A. Taylor,
Vulcanologist.

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional Readings - 10th November - 16th November, 1960.

10th	eP	ZNE	14	47	56.2)	
	i	Z			56.9)	Long period
	i!	E			58.7)	
	i	Z		48	03.8	Short period
	i	Z			53.5	
	i	Z		49	26.7	
	i	N		50	00.7	
	i	E			35.7	
	eiP	N	16	31	15.0	
	iP	Z			15.9	
	eP	E			16.7	
	iS	NE			57.7	

11th)
12th) Nil

13th	eP	Z	06	42	33	Amplitude of the EW record much greater than that of the NS record
	i	Z			34.4	
	i	E			34.8	
	i!	E			36.6	

Confused by microseisms

	eP	N	09	31	10	Amplitude of the EW record much greater than that of the NS record.
	eP	ZE			11	
	i	E			12.5	
	i	Z			13.7	
	e	N	16	03	46	
	i	E			47.5	

14th eiP E 12 09 59.5 Z. component out of order
Confused by microseisms

	ei	N	13	27	24.6
	i	E			25.6
	e	E	16	02	05
	e	N	16	44	04
	e	E			07
	i	E	17	21	42.5
	eiP	N	17	34	32.5
	eiP	E			34.9
	e	E	18	14	05
	e	E	20	08	(06)

15th No time breaks

16th Nil



Seismograms read by J.H.L.

G. A. Taylor,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY, RABAU.



Provisional readings - 17th November to 24th November, 1960, with additions.

1st	ei	E	09	04	(40)		17th	eP	-Z	20	12	08	
	e	Z			49		cont.	i	Z			09.1	
	i	E			51.9			i	Z			12.0	
	i	E			58.9			i	Z			17.3	
	e	NE	06	18				i	Z		13	41.0	
								i(S)	E		14	00.5	
3rd	iP	Z	20	54	08.3			e(S)	N			02.5	
9th	e	E	18	31	17		X	X i	Z	21	28	06.1	
	e	N			27			X e(P)	Z	21	35	14	
12th	eP	Z	10	54	52			18th	iP	Z	15	27	49.5
	i	Z		55	59				e(P)	Z	17	54	39
	iP	ZN	12	28	41.1			19th	X eP	Z	12	21	08
	i(S)	N		29	24				i	Z			10.1
	i(S)	E			25			X i	Z				19.6
14th	eP	Z	17	59	23	Local		X i	E				32.4
	i	E			55.7			X i	N				34.6
16th	iP!	Z	20	35	59.3			X i	E				37.0
								X i	N		22		07.4
								X e	N		23		39.6
17th	(eiP)	Z	01	13	20.5				eP	Z	13	54	38.5
	iP	Z			24.5				i	Z			41.5
	eP	Z	06	05	((04))			20th	iP	Z	11	19	03.2
	e	Z	09	39.0	-				i!	Z(NE)			04.1
	Confused by micro-seisms								eP	ZN	16	41	51
	e	N		45	13.5				i	Z			52.4
	eP	Z	10	07	49.5				i	N	43		05.0
	i	Z			56.8				i	E			06.2
	i	E		08	17.8			X e	Z	22	21	(33)	
	i	N			22.8				Beginning obscured by local interference.				
	e	N			41.5			21st	X iP!	Z	04	29	54.0
	i	Z	12	04	19.2				Record obscured by long period microseisms.				
	iP	Z	13	18	11.9			22nd	Nil. Long period microseisms.				
	eP	Z	13	58	50.9			23rd	iP!	Z	01	24	53.5
	Beginning obscured by local shock.								Felt: Rabaul Int.3 (MM)				
	eP	Z	15	26	10				40°11'S, 152°10'E.				
	i	ZN			14.0				S-P (Omori) = c.18 secs.				
	iP	Z	17	43	03.0				aL max. (Omori) = 4.5 mm.				
	i!	Z			03.2				i!	E			53.8
	i	Z			21.9				i!	N			53.9
	i!(S)	NE			22				Dilatation to S.W.??				
	eP	Z	17	49	58				iP	Z	01	33	49.2
	i	Z			59.6				Compression? Aftershock				
	i!	Z		50	00.2				S-P (Omori) = c.18 secs.				
	eP	N	18	34	26				i	Z		34	06.5
	X e	Z	19	56	46				i	Z		35	07.5

(cont. over)

23rd iP! Z 04 12 25.8
 cont. Dilatation (also recorded
 on Omori)

i Z 09 44 16.6
 e Z 09 44 (51.2)
 ei N 45 14

~~eP~~ Z 14 19 (30)
 i Z 31.7
 i Z 33.0
 i Z 58.9
 i Z 20 12.9
 i Z 21 04.8
 i Z 59.6
 e(S) Z 25 51
 e(S) N 53
 i(S) E 53.3
 e E 28 22
 i E 29 05.7
 e Z (53)
 i N 57

~~iP~~ Z 16 57 55.7 Compression
 i Z 58 09.3 Deep?
 i Z 59 54.9

~~eP~~ Z 18 03 42.2 Confused by microseisms
 i Z 44.8

Entire record somewhat confused by long period microseisms.

24th iP! Z 04 50 37.3 Felt: Rabaul Int. 4-5 (MM)
 Compression 4°11'S, 152°10'E.
 S-P (Omori) = c.17 secs. Waramung. Int. 4-5 (MM)
 i! (Omori) EW 51 00 4°05'S, 153°35'E.
 i! max. Omori NS 05.2 Karoola. Int. 4 (MM)
 i! max. Omori EW 08 5°10'S, 154°35'E.
 i! Omori EW 55.2 Namatanai. Int. 4 (MM)
 i! Omori EW 52 18.2 3°40'S, 152°25'E.
 Londolovit. Int. 4 (MM)
 3°05'S, 152°40'E.
 Maritsoan. Int. 4 (MM)
 4°10'S, 153°10'E.
 Palmamal. Int. 3 (MM)
 5°35'S, 151°30'E.
 Karlai. Int. 3 (MM)
 5°05'S, 152°00'E.

a_p Omori = 3 mm. (E.W. N.S.)
 a_s Omori = 26 mm. (N.S.)
 a_L Omori = 48 mm. (E.W.)
 max.

~~eP~~ Z 06 59 50 Confused by local interference
 i Z 51.5
 (recorded on Omori also).

Seismograms read by J.H.L.

G. A. Taylor,
Vulcanologist.

1/11/4

H. Doyle

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY, RABAU.

Provisional readings - 25th November to 1st December, 1960.

Omission Nov. 24th.	1P	Z	16	36	05.3	small local tremor dilatation
25th.	Nil. Record confused by long-period microseisms.					
26th.	(e)	Z	18	29	11	
27th.	1P	Z	04	04	09.3	dilatation
	1P	Z	10	54	56.7	
	1P	Z	13	11	35.2	
	1P	Z	13	54	00.9	Felt KARLAI Int. 3 (M.M.) 05° 05' S. 152° 00' E.
	01P	Z	15	25	43.0	
	1	Z		26	09.3	
	01P	Z	22	35	58.5	
28th.	Nil.					
29th.	0P	Z	11	00	48.6	
	1P	Z			49.1	
	1	Z			51.3	
	1P	Z	12	22	01.8	
	1	Z			04.3	
	1	Z			22.9	
	01P	Z	14	14	22.4	Deep.
	1	Z			23.1	
	1	Z			26.5	
	1	E			38.2	
	1	E			44.1	
	1P	Z	20	45	38.7	
	1	Z			39.3	
30th.	1P	Z	18	21	43.9	
Dec. 1st.	e	Z	08	55	(39)	
	1P	Z	09	43	23.6	
	e	H			34.6	
	01P	Z			37.6	
	1	E			42.7	
	1	Z			44.1	
	1	Z			47.2	
	1	E			56.5	
	1	H			59.9	
	1	H		44	34.8	
	1	E			53.9	
	1P	Z	10	13	22.4	Felt Madang Int. 4 (M.M.) 05° 15' S. 145° 50' E.
						Felt Kalagit Int. 4 (M.M.) 06° 15' S. 146° 15' E.
						Felt Kalalo Int. 4 (M.M.) 05° 59' S. 147° 10' E.
						Felt Lao Int. 3 (M.M.) 06° 45' S. 147° 00' E.
	01P	Z	13	42	15.2	(Also Felt, Buwliava, Int. 3 (M.M.) 1015hrs. 06° 00' S. 145° 00' E.)
	1	Z	20	50	20.5	

Seismograms read by J.H.L.

G.A. Taylor,
Vulcanologist.



TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional Readings:- 2nd December to 8th December, 1960.

Dec. 2nd iP! Z 04 38 08.9
Dilatation
(also recorded on Omori)

Felt: Rabaul Int. 1 (MM)
4°11'S, 152°10'E.
Rangarere Int. 2 (MM)
4°15'S, 151°35'E.

~~eP~~ Z 09 29 50
i Z 52.4
i Z 53.8
i Z 30 03.7
i Z 12.3
e N 14.2
e Z 32 07.1
e Z 33 13.1
e N 16.1
i Z 19.7

~~eP~~ Z 09 42 (32)
~~e~~ Z 43.1
~~iP~~ Z 09 56 46.5
e(P) Z 10 00 04
i Z 06.0
e N 15.1
i Z 01 36.5
e Z 10 09 51.1

3rd (e) Z 00 04 (18) Confused by microseisms

~~iP~~ Z 04 34 53.8
i Z 57.5
i! Z 59.9

iP! ZNE 21 47 49.5 S-P (Omori) = c.18 secs.
Dilatation to south-east

4th e Z 05 56 13.1
iP Z 13 29 00.8
Compression

~~iP~~ Z 15 54 00.4
5th ~~(iP)~~ Z 18 17 32.0

6th ~~eP~~ Z 09 15 20.1
i Z 25.4
i Z 38.6
e(S) Z 18 46.1
iS E 48.4

7th e Z 21 05 49.1 Confused by microseisms

8th ~~eP~~ Z 10 38 48
i Z 50.4

eiP Z 10 42 55.4 Confused by preceding shock
iP Z 13 41 13.4



Seismograms read by J.H.L.

G.A. Taylor,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

Provisional Readings: 9th December - 15th December, 1960.

Additional: Dec. 6th	iP!	ZNE	10	39	46.4	
	Compression from S.E.					
9th	iP!	Z	06	47	40.8	Felt: Kandrian Int.2-3(MM) 6°15'S, 149°35'E.
	iP	Z	21	42	23.1	Felt: Kandrian Int.2-3(MM) 6°15'S, 149°35'E.
	Dilatation?					
10th	iP!	Z	11	50	48.2	Felt: Kandrian Int.2-3(MM) 6°15'S, 149°35'E.
	Dilatation to S.W.					
	iP	N	14	00	44.0	
	eiP	Z			44.3	
	i!	Z			47.3	
	iP	Z	22	05	43.5	(Recorded also on Omori)
	i	Z			44.2	
	i!	Z			48.2	
11th	iP	Z	00	06	32.3	
	i	Z			36.8	
	i	Z			41.5	
	iP!	Z	00	24	28.3	
	Compression					
	eP	Z	03	24	00	Confused by local shock
	e	ZN	08	02	(00)	
	eP	Z	18	57	20	
	i	Z			21.1	
	i	Z			25.9	
	i	Z			28.3	
12th	e(P)	Z	04	21	(50)	
	eL	Z	16	59	(00)	
	eL	Z	20	00	15	
13th	eP	Z	07	44	59	
	i	Z		45	13.7	
	i!	Z			20.6	
	i	E		47	11.6	
	e	E		51	33	
	eiP	Z	09	10	07.0	
	e	E		13	21	
	e(S)	Z		16	17	
	iP	Z	10	12	00.9	
	i	Z			19.3	
	e	Z		13	49	
	e	Z		16	42	
	e	N		17	(13)	
	e	E			(14)	
	e	Z			17	
	e(P)	Z	15	54	03	
	e	Z	16	03	(09)	



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14th	eP	Z	00	24	(16)	Confused by microseisms
	eP	Z	01	00	50	
	i	Z			56 $\frac{1}{2}$	
	i	Z		02	17.9	
	e(P)	Z	04	09	(18)	Confused by microseisms.
	(iP	Z	12	18	29.1	
	(Compression					
	(i!	Z			29.5	
	iP!	Z	13	11	55.5	Felt: Rabaul Int.1(MM)
	Compression from		S.E.			4°11'S, 152°10'E.
	(e)	Z	14	31	(38)	
	e(P)	Z	14	32	03	
	eiP	Z	23	57	04.3	Dilatation?
	i!	Z			05.8	
	i!	Z			07	
	i	Z		59	16	
	i	Z	(00)	03	58	Part of this shock lost during change of record
15th	Nil					

G. A. Taylor,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.



Provisional Readings:- 16th December to 22nd December, 1960

Omissions:

10th	iP	Z	07	40	40.3	19th	eP	Z	07	05	15½	
			Dilatation				Confused by small preceding local shock.					
	e	Z	13	47	(07)		eP	Z	09	45	(57)	
	Confused by microseisms						i	Z		46	01.8	
14th	iP	Z	08	20	50		e(P)	Z	14	43	(17)	
	eiP	Z	13	30	12		e(P)	Z	14	54	(02)	
16th	e	Z	02	23	(33½)		i	Z			03.8	
	eiP	Z	05	11	37.5		eP	Z	19	04	00	
17th	Beginning of local shock at 0003 lost during record-change.						i	Z			01.3	
	ip!	Z	00	43	46.3		e	Z		07	(50)	
	e	Z	10	08	(43½)		eP	Z	22	17	52	
	Dilatation						Confused by microseisms					
	eP	Z	10	44	46	20th	eiP	Z	04	22	43	
	i	Z			46.8		(Also recorded on Omori)					
	i	Z			45		? Superimposed local shocks.					
	i	Z			24.5		Shock of unusual duration					
	i	Z			46		(6½ minutes) during which					
	e	Z			50		trace moved too fast to					
	e	N			51		record phases.					
	eiP	Z	11	25	37		iP	Z	13	14	44.2	
	eiP	Z	13	29	36.0		Compression.					
	i	Z			55.2		i(S)	Z			50	
	e	Z			16½		Felt: Rabaul. Int.1(MM)					
	eP	Z	16	11	25		4°10'S, 152°10'E.					
	i	Z			30.4		iP!	Z	22	20	24.7	
	i	Z			12		(Also recorded on Omori)					
	i	Z			54.4		21st	iP!	Z	02	53	07.9
	e	Z			34½		Compression.					
	e(P)	Z	16	53	(40)		Felt: Rabaul. Int.1(MM)					
	e(P)	Z	17	52	-		4°10'S, 152°10'E.					
	Confused by local interference.						eP	Z	20	58	10½	
18th	eP	Z	05	14	35½		i	ZNE			11	
	e	Z			10½		22nd	e(P)	Z	02	32	(07)
	i	Z			52.4		Confused by microseisms					
	eiP	Z	06	31	05.4		e(P)	Z	03	12	24	
	eiP	Z	09	01	23½		Confused by microseisms					
	eiP	Z	18	25	48.7		eP	Z	06	38	50	
	ip!	Z	20	54	58.7		i	Z		40	58	
	(S-P (Omori) = 20 secs. (NW);						e(P)	Z	14	19	(30)	
	24 secs. (EW).)						e	Z	17	57	30	
							eP	Z	21	03	57	
							Compression from south-east					
							i!	Z			57.2	
							eiP)	ZNE	21	16	48	

Seismograms read by J.H.L.

G.A.Taylor,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

Provisional Readings:- 23rd December to 29th December, 1960.

Omissions:

19th eiP Z 01 45 38½
iS NE 46 00

iP‡ Z 14 27 18.2 Dilatation to S.W.?
i(S) N (40)

20th iP Z 15 52 27.7

21st iP Z 08 47 41.4
i(S) Z 48 05

iP Z 17 02 59.7
i(S) Z 03 20

22nd Shock reported -

21 03 57 Felt: Rabaul Int.1-2(MM)
S-P (Omori) = approx. 42 secs. 4°10'S, 152°10'E.

23rd ~~eP~~ Z 10 53 58
~~i~~ Z 54 03
~~i~~ Z 06
~~e~~ Z 54 39

e Z 13 55 (54)

ei Z 14 17 32

eiP Z 16 17 32

eiP Z 16 19 56

e(P) Z 19 13 (59)

eP N 19 37 41

24th Nil

25th ~~e(P)~~ Z 05 27 31½

e(P) Z 05 53 (12)

Confused by microseisms

e(P) Z 12 41 23½

iP Z 13 27 27.9

e(P) Z 15 23 (30)

e(P) Z 15 59 21

e Z 17 24 12½

i Z 13.0

~~e(P)~~ Z 20 37 35½

26th iP Z 01 02 53
e 03 12½

~~eP~~ Z 01 52 23½

iP‡ Z 01 54 22.1

eiP Z 04 51 14½

e Z 54 42½

26th. cont. e(P) Z 09 44 (38)

eiP Z 13 48 10

eP Z 13 51 40½

e Z 53 (13)

eiP Z 17 36 53

27th eiP Z 00 16 57.3

i Z 17 02.2

i Z 10

~~eP~~ Z 18 28 52

~~i~~ Z 29 39.4

Unusual microseismic disturbance from 0613-0715hrs

28th iP‡ ZNE 01 14 54.2

Dilatation to south-east

29th ~~eP~~ Z 06 08 (58)

~~e~~ Z 10 37

~~eP~~ Z 10 56 15

~~eP~~ Z 13 44 03

~~i~~ Z 04.1

~~i‡~~ Z 04.3

~~eP~~ Z 15 23 (20)

~~eiP~~ Z 19 20 52

~~e~~ Z 24 07

eP Z 19 54 03

Seismograms read by J.H.L.



G.A. Taylor,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.



Provisional Readings:- 30th December, 1960, to 4th January, 1961.

Additions:

26th Dec.	iP Z 12 19 30.0	See Honiara's shock No. 341
	Dilatation to south-east?	
	iS NE 41	
29th	Shock reported	Felt: Saidor. Int. 4-5 (MM)
	eP Z 13 44 03	5°35'S, 146°30'E.
30th	(e) Z 07 01 32	
	Confused by microseisms.	3rd iP Z 10 23 16.1
		Compression
31st	iP! Z 14 43 10.0	
	Dilatation to south-east.	eP Z 11 45 43
		i 43.5
	e(P) Z 16 10 (43)	(i 46 05.5
		? (e(P) Z 11 53 00
	e(P) Z 16 12 (14)	
	e Z 18 26	e(P) Z 13 52 (17)
	e(P) Z 18 27 (39)	
	eP Z 20 04 09	iP ZNE 18 03 26.8
	e Z 08 35	(Also recorded on Omori)
		Dilatation to north-west
	iP! Z 21 06 26.8	eP Z 19 31 47
	(Also recorded on Omori)	i Z 47.8
	Dilatation to south-east.	i Z 32 03.5
		i Z 14.8
1st Jan.	e(P) Z 13 22 16	i N 32.2
	e Z 16 45 39	e E 36 11
	e(P) E 16 48 (34)	
	i Z 49 31.2	4th e(P) Z 17 52 (48)
	e(S) NE 53 32	Confused by microseisms
	e(P) Z 22 18 29	(iP Z 19 21 16.7
		? (Confused by microseisms
		(e(P) Z 19 22 03
2nd	eP Z 10 15 37	
	i Z 41	
	i Z 42	
	i! Z 44.7	
	e NE 10 27 38	
	e Z 42	
	e Z 11 03 (38)	
	Confused by microseisms	
	iP Z 15 51 33.0	
	Compression	
	e(P) Z 16 07 (04)	
	Confused by microseisms	Seismograms read by J.H.L.
	eiP Z 20 52 46	
	(Also recorded on Omori)	
	e(P) Z 23 10.2 -	
	Confused by microseisms.	

G. A. Taylor,
Vulcanologist.

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY, RABAUL.

Provisional Readings:- 5th January to 12th January, 1961.

5th	iP	Z	14	16	47.4
	e	Z		19	19
	iP	Z	15	56	11.3

Felt: Tari. Int. 6 (MM)
 05°50'S, 143°E.
 Mandi. Int. 6 (MM)
 08°10'S, 143°40'E.
 Kagua. Int. 6 (MM)
 06°23'S, 143°50'E.
 Telefomin. Int. 4-5 (MM)
 05°10'S, 141°35'E.
 Kundiawa. Int. 4 (MM)
 06°S, 145°E.
 Angoram. Int. 3 (MM)
 04°05'S, 144°05'E.
 Aitape. Int. 3 (MM)
 03°10'S, 142°20'E.
 Bogia. Int. 3 (MM)
 04°15'S, 144°55'E.
 Nuku. Int. 3 (MM)
 03°35'S, 142°10'E.

	iP	Z	18	03	02.9
	iP	Z			04.2
	e	N			49
	e	N			58
	e	E		07	22
	e	N			29
	eP	Z	18	19	48
	iP	Z			49.6
	e	N		24	07
	e	Z			33

6th Strong microseisms

7th " " "

8th " " "

9th Nil

10th iP Z 09 12 30.7

iP Z 14 31 43.4
 iP Z 44.3

11th Nil

12th iP Z 13 55 00.7 Compression

iP Z 20 53 35.8 Felt: Karlai. Int. 3 (MM)
 05°05'S, 152°E.

iP Z 22 59 24.2



Seismograms read by G.A.T.

G.A. Taylor,

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY, RABAUL.

Provisional Readings:- 13th January to 18th January, 1961.

13th	Nil				
14th	iP ₁	Z	05	34	05.9
	iP ₂	ZE	13	45	11.0
	Compression. Deep ?				
	e(P)	E	15	43	36
	e(P)	Z			37
	e	Z	16	39	44
	e	N		52.4	-
15th	e	Z	01	11	48
	No time breaks from 05 ⁴⁴ to 22 ⁴³ hours.				
			Major tremor		
	(eP)		16	5(2)	-
16th	e	Z	04	20	(19)
	eIP	Z	07	27	55.4
	e	NE		34	(06)
	eP	Z	11	27	29
	eP	Z	12	20	11 $\frac{1}{2}$
	eP	Z	14	11	(36)
	eP	Z	15	49	(05)
17th	iP ₁	ZNE	13	44	09.1
	Compression from S.W.				
	eP	Z	22	36	43
	eP	Z	22	53	(32)
18th	Nil.				



Seismograms read by J.H.L.

G.A. Taylor,
Vulcanologist.

MKB

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

Provisional Readings:- 19th January to 26th January, 1961.

19th eP Z 05 58 (38)
Confused by microseisms.
eiP Z 17 31 42
Deep. ✓

20th iP Z 01 53 26.3
Dilatation.

eP Z 02 30 (33)
Confused by microseisms.

eP Z 17 20 57 ✓

e(P) Z 18 49 56
Confused by microseisms.

e(P) Z 20 07 (08)
i 35
Confused by microseisms.

21st Nil

22nd eiP Z 03 27 52½
i 54.4
i N 31 49
e NE 33 32½
e Z 46
e E 34 (46) ✓

~~eP Z 12 29 28~~
~~eP Z 16 17 08~~
~~e N 22 07~~

e Z 18 35 50

e(P) Z 19 08 (39)
e N 12 57

e Z 19 34 36 ✓
Record confused by long-
period microseisms.

23rd i Z 04 56 58.9
Dilatation. Deep?

e Z 19 22 (12)

eiP Z 20 15 04½

24th eiP Z 07 29 (16½)
i Z 18.0
i Z 48½ ✓

25th e(P) Z 05 25 (26)
e Z 29 (46)
Confused by microseisms.

eP Z 17 26 53
i Z 54

i Z 19 13 40.4 ✓

26th eP Z 16 18 (34)
i Z 39
e Z 23 (25)
e N (45)

eiP Z 18 54 05
eiP Z 58 10
Record confused by long
period microseisms.



Seismograms read by J.H.L.

G.A. Taylor,
Vulcanologist.

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TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

Provisional Bulletin:- 27th January to 2nd February, 1961.

Additions:-

27.12.60	eP	Z	11	53	11½	28. 1.61	eP	ZN	19	48	(09)
29.12.60	iP‡	Z	05	58	07.5	cont.	i	Z			13
							i	Z			16
							i	N			25
							i	Z			32
11. 1.61	eP	Z	12	10	(25)		i	Z			44
					Confused by microseisms		i	N			56

Correction:-

17. 1.61	iP‡	ZNE	14	18	09.1	29. 1.61	eP	Z	00	23	14
					Compression from S.W.		e	Z	00	54.5	-
	eP	Z	23	10	43	30. 1.61	e(P)	Z	11	23	54
	e	Z	23	27	(32)		eiP	Z	12	24	51

Additions:-

21. 1.61	iP	Z	17	40	54.2	1. 2.61	Nil				
					Dilatation.	2. 2.61	eP	N	11	17	48½
25. 1.61	iP	Z	19	18	10.1		eP	E			49½
					Compression		iP‡	Z			50.3

27. 1.61	eiP	Z	00	53	13½		i‡	E			51
	i‡	Z			14		e(S)	E	21		28½
					Felt: Rabaul. Int.1(MM)		iP‡	ZNE	19	16	47.4
					4°10'S, 152°10'E.						Compression from S.E.
					(Also recorded on Omori).						

iP‡	ZNE	13	55	34.4
				Dilatation to S.W.
				Felt: Rabaul. Int.1-2(MM)
				4°10'S, 152°10'E.
				(Also recorded on Omori
				S-P = approx.18 seconds).

eP	Z	14	52	(06)
----	---	----	----	------

eP	ZN	15	11	(05)
----	----	----	----	------

28.1. 61	eP	Z	05	17	42½
	i	Z			45.5
	i‡	Z			50.1

e(P)	Z	14	25	(56)
------	---	----	----	------

e	Z	14	38	(52)
				Confused by local inter-
				ference.

e(P)	Z	17	38	(31½)
------	---	----	----	-------

e(P)	N	17	39	37½
------	---	----	----	-----

e(P)	Z			42½
------	---	--	--	-----

Seismograms read by J.H.L.

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Vulcanologist.



TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAUL.

Provisional Readings: 3rd February to 9th February, 1961.

3rd e(P) Z 08 00 32
 ei(P) Z 09 11 12
 eP Z 12 40 31
 i! Z 32.3
 i Z 50
 i Z 41 36.5
 iS N 46 13.1
 eS ZE 13.5

4th e(P) Z 01 32 (02)
 Confused by microseisms.

eP Z 09 01 59
 i Z 02 00.0
 i! Z 00.6
 i! Z 36.5
 Deep?

e Z 09 29 47

e Z 09 31 06

i(P)(PKP)Z 12 58 43.7
 e Z 59 04

iP! Z 14 09 21.1
 Dilatation to south-east

iP! Z 19 09 01.9
 Compression

eP Z 19 16 53

i Z 53.7

i Z 17 23.9

iP Z 22 07 09.9
 Dilatation

5th e Z 02 11 (06)

eiP Z 04 35 55

e(P) N 15 57 24

eP Z 18 02 33

Records confused by long
 period microseisms.

6th iP Z 02 43 40.7
 Compression (from south?)

i(S) Z 44 (05)

e Z 04 10 (38)
 Confused by microseisms

e(P) Z 10 49 41

iP! Z 13 07 19.9
 Dilatation.

6th cont. iP Z 18 24 08.6
 i Z 13.4
 e Z 25 50.5
 e Z 26 49.5
 e N 27 54
 e E 28 30
 eL X 29 (10)

iP! Z 19 30 28.2
 Dilatation to south-east
 (Recorded on Omori -
 S-P = c.44 seconds.
 Very small amplitude).

eP Z 20 14 33

eP Z 21 46 20.5

i Z 21.5

i! Z 22.1

i! Z 22.5

(S-P = c.48 seconds (Omori)
 Amplitude EW = 66 mm.
 Amplitude NS = 50 mm. (Omori).

Felt: Boku. Int.6 (MM)
 6°35'S, 155°20'E.
 Buin. Int.6 (MM) Slight
 6°50'S, 155°45'E. damage.
 Karoola. Int.5 (MM)
 5°10'S, 154°35'E.
 Minor breakages.
 Sohano. Int.2-3 (MM)
 5°25'S, 154°40'E.
 Rabaul. Int.2-3 (MM)
 4°10'S, 152°10'E.

eiP Z 21 58 (46)
 Confused by preceding.

7th e(P) Z 01 47 (18.5)
 Confused by microseisms.

eiP Z 12 23 55.5

iP! ZNE 20 39 52.4
 Compression (from north-east?)
 (Also recorded on Omori).

eiP Z 21 05 (06)

e(P) Z 21 10 18

8th eP Z 02 40 50

i Z 53.4

e E 44 24

e Z 47

iP Z 08 22 15.3

i! Z 26.3

e Z 24 46

i Z 59.4

e E 31 01

eP Z 09 49 54



8th cont. iP Z 11 30 17.4
Dilatation to north-west.
i! Z 17.6

eP Z 13 52 05
i! Z 05.1

eP Z 13 57 14
i! Z 14.3
i(S) E 44

eP Z 17 56 38
i Z 39.3
i Z 59 07.8
i Z (18) 02 02.5
ei E 03 00.3
e(S) NE ✓ 06 05

iP! ZNE 19 26 24.7
Compression from north-west.
Felt: Rabaul Int.1(MM)
4°10'S, 152°10'E.
(Also recorded on Omori
S-P = about 34 seconds)

iP Z 22 47 03.8
Dilatation.

9th eiP Z 00 00 (21)
i! Z 23.3
(Also recorded on Omori)

eP Z 02 15 28
i Z 31.3
e E 17 01
e Z 37
e E 19 23
e E 21 (43)
e E ✓ 26 09

iP! ZE 02 26 32.6
Compression from east.

eP Z 09 07 40
e Z 10 (40)

iP ZNE 11 17 00.0
Dilatation to north east.

iP ZE 19 28 32.9
Dilatation to east.

Seismograms read by J.H.L.

G. A. Taylor.
Vulcanologist.

Addition.

27th January.
Recorded and
felt at LAE.

iP 03 01 36 Felt: Lae. Int.(2-3?)
is 43.4 6°45'S, 147°00'E.

29th January.

iP! ZNE 18 00 22.7
Compression from north-east.
Felt: Maritsoan. Int.2(MM)
4°10'S, 153°10'E.

REPORT OF SEISMIC ACTIVITY
IN THE REGION OF THE MEDITERRANEAN

1961, February 1st to 16th February 1961.

1st February. 01 03 01 (37)
 Confused by microseisms
 02 04 03 (34)
 Confused by microseisms
 5th February. 0(P) 15 58 (51)
 9th February. 17 14 43 00.1

10th	01	2	13	24	43
	1	2			44.2
	1	2			50
	1	2		25	04
11th	0	2	13	29	37
	01	2	13	50	07
	02	2	15	37	50
	1	2			51.7
	0	2		26	46
	02	2	21	08	19
	1	2			19.6
	1	2			22.8
	1	2			42
	1	2			50
	1	2		10	39.2
	1	2			39.4
	1	2			42.5
	1	2		11	21
	1	2		14	22.5
	0	2			30
	1	2			33.8
	0	2		18	34
12th	02	2	12	15	43
	1	2			47
	01	2		15	10
	02	2	13	01	10
	1	2			21.8
	0	2		04	33
	1	2			34.1
	1	2			42.3
	0	2		07	41.1
	1	2			43.5
	e(P) 2		13	11	29.2
	0	2	14	21	(07)
	1	2	14	51	00.8
	Direction to south west				
	0(P) 2		15	26	09
	02	2	17	36	48
	1				49.2
				37	(44)



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TERRITORY OF PAPUA AND NEW GUINEA
VULCANOLOGICAL OBSERVATORY RABAU

Provisional Readings: 24th February to 2nd March 1961.

Additions: 16th February. iP Z 12 14 06.0
i(S) Z 35.0

21st February. iP Z 00 04 17.3
i! Z 26.3

24th Feb. iP Z 03 11 44.0
Confused by microseisms

eP Z 14 36 48
i! Z 50.0 Deep?

eP Z 20 52 -
Confused by local shock

25th. e Z 01 23 05 ← i(P) Z 05 01 10.7

eP Z 15 08 36

e(P) Z 15 50 (28)
Confused by local shock

26th. i Z 06 02 03
Confused by microseisms

iP Z 18 18 30.1
Dilatation

i Z 32.1

i! Z 33.9

iS N 24 41.8

i!S E 43.1

eP Z 21 08 (04)
Confused by microseisms

27th. e(P) Z 16 52 (20)
Confused by microseisms

28th. Nil. Record confused by microseisms

Mar. 1st. Nil. Record confused by microseisms

Mar. 2nd. iP! Z 06 45 50.8
Dilatation

iP Z 09 20 03.8
iS Z 53.8

iP! ZNE 11 02 09.1
Dilatation to north-east.

Seismograms read by J.H.L.



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