

TERRITORY OF PAPUA AND NEW GUINEA.
VULCANOLOGICAL OBSERVATORY RABAU.
SEISMOLOGICAL BULLETIN.
NOVEMBER, 1955.

1st	iP!	Z	08	44	06	
	iP!	Z	08	48	10	In coda of preceding. Felt: Rabaul Int.1-2(MM) S-P (Omori) 18 secs.
	iP	Z	10	12	38	Felt: Rabaul Int.1-2(MM) S-P (Omori) 18 secs. U.S.C.G.S. 5°S, 153°E. New Britain H = 10 12 09
	i!	Z		12	39	
	eP	Z	15	19	35	
2nd	iP	Z	08	43	17	
	eP	Z	18	41	54	
3rd	iP	Z	01	33	36	
4th	iP	Z	01	55	49	Felt: Sohano Int.2(MM)
5th	e(P)	Z	03	58	39	U.S.C.G.S. 19½°S, 169°E. New Hebrides Is. H = 03 53 38 h = 150 kms.
	i(pP)	Z			54	
	i(PcS)	NE	04	05	51	
6th	Nil					
7th	iP	Z	07	39	17	
8th	iP	Z	22	43	45	Felt: Rabaul Int.2(MM) Aropa Int.1(MM)
	i!	Z		43	46	
9th	iP!	Z	01	14	10	Felt: Rabaul Int.2(MM) S-P (Omori) 17 secs.
	iP	Z	16	47	17	
10th	iP!	Z	01	25	01	(S)-P (Omori) 24 secs. U.S.C.G.S. 5°S, 152°E. New Britain H = 01 24 20
	iP	Z	01	50	54	U.S.C.G.S. 15°S, 174°W. Samoa Is. H = 01 44 04 h = 100 kms. M = 7¼ - 7½ (Pas).
	iPcP	Z		53	26	
	eS	NE		56	20	
11th	Nil					
12th	iP!	Z	10	08	33	Felt: Numa Numa Int.3(MM) Kunua Int. 3-4(MM) Esa'ala Int.2(MM) Rabaul Int.3(MM) Kokopo Int.3(MM) Karoola Int.4(MM) Aropa Int.2(MM) S-P (Omori) 25 secs. U.S.C.G.S. 5°S, 152½°E. New Britain H = 10 07 47 h = 60 kms.
	iP	Z	12	25	32	Felt: Kunua Int.2(MM) Kokopo Int.2(MM) Karoola Int.2(MM)

12th cont.	iP!	Z	13	43	46	Felt: Kunua Int.3(MM) Kokopo Int.2(MM) Aropa Int.3(MM) Karoola Int.2(MM) (S)-P (Omori) 23 secs. B.C.I.S. 5°S, 154°E. New Britain H = 13 43 01
	eP	Z	15	50	13	
	iP	Z	18	27	05	
	i	E		27	10	
13th	e(P)	Z	05	22	55	
	iP	N	05	22	50	
	i	Z		23	05	
	i	Z		23	54	
	i	Z		25	55	
	i	Z		26	01	
	iP	N	05	41	40	
	i	N		41	41	
	i(P)	E		41	42	
	i(P)	Z		41	46	
	i	N		41	48	
	i	Z		43	22	
	i	N		43	32	
	i	Z		43	34	
	i	Z		44	54	
	i	N		45	01	
	iP	E	07	25	01	Felt: Rabaul Int.1-2(MM)
	iP	Z	22	50	10	
	iP	Z	23	14	28	
14th	iP	Z	01	20	50	U.S.C.G.S. 17½°N, 146°E.
	i	E		20	57	Mariana Is.
	i	NE		21	59	H = 01 16 04
	eS	NE		24	50	h = 100 kms.
	iP	Z	03	13	14	U.S.C.G.S. 14°S, 167°E.
	i(P)	NE		13	15	New Hebrides Is.
	i	E		13	19	H = 03 09 10
	i	E		13	40	h = 200 kms.
	i	N		14	19	
	i	E		14	59	
	e	N		16	19	
	iS	E		16	30	
	eM	NE		21	20	
	eScS	N		24	38	
	eScS	E		24	39	
	iP!	Z	13	08	38	S-P (Omori) 19 secs. U.S.C.G.S. 5½°S, 152½°E. New Britain H = 13 08 07
	iP	Z	13	28	01	U.S.C.G.S. 17½°N, 145½°E.
	i	E		29	25	Mariana Is.
	i	N		29	57	H = 13 23 09
	i(S)	N		31	47	h = 150 kms.
	i(S)	E		31	53	
15th	iP	Z	03	17	20	Felt: Rabaul Int.1(MM) Numa Numa Int.1(MM) Aropa Int.1(MM) U.S.C.G.S. 5°S, 154°E. Solomon Is. H = 03 16 32

3.

15th cont.	iP	Z	08	34	29	Felt: Rabaul Int.2(MM)
	iP	Z	10	18	18	
	iP	Z	22	22	41	
16th	Nil					
17th	iP	Z	03	44	55	U.S.C.G.S. 5°S, 154°E. Solomon Is. H = 03 44 05
	i(S)	E		45	24	
	iP	Z	07	12	24	
	i	Z		12	36	
	iP	Z	14	18	19	
18th	iP!	Z	04	00	28	
	iS	E		00	59	
	iP!	Z	17	03	33	
19th	Nil					(Power break on 19th)
20th	Nil					
21st	iP!	Z	21	08	24	Felt: Walindi Int.2(MM)
	iS	E		08	41	
	iP	Z	21	17	18	
	i	NE		17	28	
	i	NE		18	25	
22nd	iP!	Z	17	06	01	S-P (Omori) 20 secs. U.S.C.G.S. New Britain H = 17 05 22
23rd	iP	Z	06	38	57	
	iP	Z	08	45	57	
	iP	Z	09	11	59	
	i(S)	E		12	51	
	i(S)	N		12	55	
	i(P)	Z	17	26	43	
24th	iP	Z	04	58	59	Felt: Sangara Int.3(MM)
	iP	Z	15	30	21	
	i!	Z		30	25	
	i	E		30	28	
	i	E		31	07	
	i(S)	NE		31	14	
25th	Nil					
26th	iP	Z	07	11	21	
	iS	NE		12	21	
	iP	Z	13	28	36	
	iP!	Z	16	37	37	S-P (Omori) 16 secs.
27th	Nil					

4.

28th	i(P)	Z	18	28	19	
29th	iP!	Z	09	31	51	S-P (Omori) 19 secs. U.S.C.G.S. Solomon Is. H = 09 31 12 <del>XX</del>
30th	iP e(S)	Z E	17	18 20	24 44	U.S.C.G.S. 11°S, 166°E. Santa Cruz Is. H = 17 14 36

Tremors felt in the Territory, November, 1955.

Date	Locality	Latitude South	Longitude East	Strength Mercalli Modified	Time G.M.T.
Nov. 1st	Rabaul	04 11	152 10	1 - 2	0848
	"	"	"	1 - 2	1013
2nd	Numa Numa	05 50	155 15	2	0858
4th	Sohano	05 25	154 40	2	0154
	Aropa	06 25	155 50	2	0158
5th	Awelkon	05 40	147 50	1	1205
8th	Rabaul	04 11	152 10	2	2243
	Aropa	06 25	155 50	1	2245
9th	Rabaul	04 11	152 10	2	0115
11th	Tari	05 50	143 00	1 - 2	0400
	"	"	"	1 - 2	0430
	Wakunai	05 50	155 13	2	2330
12th	Wakunai	05 50	155 13	3	0100
	Numa Numa	05 50	155 15	3	1006
	Esa'ala	09 45	150 50	2	1010
	Kunua	05 50	154 45	3 - 4	1015
	Karoola	05 10	154 35	4	1010
	Kokopo	04 20	152 15	3 - 4	"
	Rabaul	04 11	152 10	3	"
	Aropa	06 25	155 50	2	"
	Kokopo	04 20	152 15	2	1208??
	Karoola	05 10	154 35	2	" ??
	Kunua	05 50	154 45	2	1230
	"	"	"	3 - 4	1345
	Karoola	05 10	154 35	2	1343
	Kokopo	04 20	152 15	2	"
	Aropa	06 25	155 50	3	1345
13th	Rabaul	04 11	152 10	1 - 2	0745
14th	Sangara	08 49	148 09	3	1015
15th	Numa Numa	05 50	155 15	1	0317
	Rabaul	04 11	152 10	1	0318
	Aropa	06 25	155 50	1	0320
	Rabaul	04 11	152 10	2	0835
17th	Kunua	05 50	154 45	2	1630
21st	Walindi	05 25	150 05	2	2109
23rd	Sangara	08 49	148 09	3	0915

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

SEISMOLOGICAL BULLETIN.

DECEMBER, 1955.

1st	iP!	Z	08	39	02	S-P (Omori) 45 secs. U.S.C.G.S. Solomon Is. H = 08 38 13
2nd	iP	Z	00	55	06	
3rd	iP	Z	20	00	09	
	i	E		02	17	
	iP	Z	22	23	58	
	i	E		24	44	
	e	E		25	01	
	i	N		25	06	
4th	iP	Z	02	09	08	U.S.C.G.S. 33 $\frac{1}{2}$ °S, 180°. Kermadec Is. H = 02 01 34
5th	iP	Z	20	21	57	
6th	iP!	Z	06	00	39	
	iP!	Z	08	28	40	
7th	iP	Z	15	09	36	
8th	iP!	Z	17	36	54	S-P (Omori) 43 $\frac{1}{2}$ secs. U.S.C.G.S. 4°S, 152°E. New Britain H = 17 36 00 h = 500 kms.
	iP!	Z	19	42	20	Felt: Kunua Int.1-2(MM)
9th	iP!	Z	22	17	00	
10th	Nil					
11th	i(P)	Z	03	30	57	
	iP	Z	11	19	03	
	i	N		19	23	
	i	E		20	05	
	i	N		20	23	
12th	Nil					
13th	Nil					
14th	iP!	Z	15	19	42	Felt: Walindi Int. 2-3 (MM)
15th	iP!	Z	02	32	45	
	eiP iS	Z NE	19	03	37 45.3	
16th,17th	Nil					
18th	iP!	Z	03	06	28	
	iP!	Z	10	07	58	U.S.C.G.S.
	i(S)	E		08	41	Nr. N.E. New Guinea H = 10 07 04 h = 200 kms.
	Felt:		Sangara Int.4(MM)			

2.

18th	iP	Z	18	00	27
cont.					
19th	iP	Z	03	19	43
	i	Z		19	52

 20th, 21st, 22nd,  
23rd, 24th Nil

25th	iP	Z	11	55	07
	i	Z		56	08
	i	E		56	19
	i	N		56	23

26th Nil

27th	iP	Z	08	51	21
	iP	Z	10	03	18
	iP	Z	17	26	26
	i	ZE		27	03
	e	E		28	02

28th, 29th Nil

30th	eP	Z	07	03	23	U.S.C.G.S. $10^{\circ}N$ , $126^{\circ}E$ .
						Molucca Strait
						H = 06 57 51

31st Nil

Tremors felt in the Territory, December, 1955.

Date	Locality	Latitude South	Longitude East	Intensity Mercalli Modified	Time G.M.T.
Dec. 1st	Kunua	05 50	154 45	1 - 2	0845
3rd	Kunua	"	"	1 - 2	0630
8th	Kunua	"	"	1 - 2	1945
12th	Rabaul	04 11	152 10	3	0928
	"	"	"	1	1040
14th	Walindi	05 25	150 05	2 - 3	1516
18th	Sangara	08 49	148 09	2	1010
24th	Sangara	"	"	3	1035
25th	Awelkon	05 40	147 50	2	1153
26th	Sangara	08 49	148 09	4	0825
28th	Budoia	09 43	150 50	2	1500
29th	Esa'ala	09 45	150 50	2	0725

TERRITORY OF PAPUA AND NEW GUINEA.

VULCANOLOGICAL OBSERVATORY RABAU.

SEISMOLOGICAL BULLETIN.

OCTOBER - DECEMBER, 1955.

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



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

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

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

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

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

Height above mean sea level - about 3 metres.

Foundation - unconsolidated volcanic ash.

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

References. Tables - Jeffreys & Bullen, 1940.

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

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

Communications should be addressed to:-

Vulcanologist,  
RABAU,  
Territory of Papua and New Guinea.

G. A. Taylor,  
Vulcanologist.

OCTOBER, 1955.

1.

1st	eP	ZN	18	54	24	U.S.C.G.S. 19°S, 169°E. New Hebrides Is. H = 18 49 10 S-P (Omori) 58 secs.			
	e	E		54	34				
	i(PP)	N		54	48				
	i(PPP)	Z		54	57				
	i	N		55	15				
	i	E		55	20				
	e	Z		55	34				
	e	N		56	01				
	e	E		56	05				
	e	Z		58	34				
	i	Z		19	01		32		
			05	35					
2nd	iP	ZN	15	34	03				
	e	N		35	39				
	eP	Z		19	42		48		
	e	Z		43	03	U.S.C.G.S. Tonga Is. Region H = 19 35 43			
	e	Z		43	18				
3rd	eP	Z	18	25	27				
	i	Z		26	23				
	i	Z		27	21				
	i	Z		27	31				
4th	iP	Z	10	33	36				
	eP	NE	10	33	36				
	i	ZNE		33	55				
	i	ZE		34	27				
	i	Z		34	46				
	i	Z		35	21				
	e	Z	20	55	11				
	e	Z	21	00	36				
	5th	iP	Z	09	07		52	U.S.C.G.S. 53 <sup>1</sup> / <sub>2</sub> °N, 161°E. Kamchatka H = 08 57 55	
		i	Z		08		08		
i		Z	08		33				
i(PeP)		E	08		42				
i		Z	08		59				
i		Z	09		27				
e		Z	09		47				
i(PP)		Z	10		01				
e		Z	10		18				
e		Z	10		34				
e		Z	11		08				
e		Z	11		20				
iP		Z	20		50	34			
i		ZN			50	59			
i		Z			51	15			
6th		i(P)	Z		11	15	15		
		iP	Z		17	53	33		
	i	Z		53	36	U.S.C.G.S. 19°S, 147°E. New Hebrides Is. H = 17 48 39			
	e(PP)	Z		53	51				
	i(PPP)	ZE		54	01				
	i	Z		54	24				
7th	e	Z	07	53	09				
8th	eP	Z	06	21	09				
	i	Z		21	13				
	i	Z		21	21				
	eP	Z		11	26		18		



2.

9th	i(P)	Z	01	14	33	
	<del>iP!</del>	<del>Z</del>	<del>17</del>	<del>40</del>	<del>36</del>	<del>.. (Felt: Rabaul Int. 3+(MM)</del>
	<del>iP</del>	<del>Z</del>	<del>18</del>	<del>03</del>	<del>59</del>	<del>( Kokopo Int. 3+(MM)</del>
	<del>i</del>	<del>E</del>		<del>04</del>	<del>14</del>	<del>( Tol Int. 3(MM)</del>
	<del>iS!</del>	<del>NE</del>		<del>04</del>	<del>16</del>	<del>(U.S.C.G.S. 5°S, 153°E.</del>
						<del>(New Britain</del>
	iP	Z	21	09	16	<del>(H = 17 40 09</del>
	iS	NE		09	26	
	i	N		09	27	
	(e)	Z	23	23	45	
	(e)	Z		24	12	
	iP	Z	23	26	46	
	iS	Z		26	56	
	i	N		26	57	
	iP!	Z	23	59	28	
10th	iP!	Z	05	09	17	
	iP!	ZNE	08	58	10	U.S.C.G.S. 5°S, 153°E. New Britain H = 08 57 44 Mag. = 7 $\frac{1}{4}$ (Pas) Almost continuous after- shocks for 2-3 hours. Records unreadable. Felt: Kokopo Int. 6-7(MM) Tol. Int. 6(MM) Many aftershocks; damage - to water tanks & crockery; landslides. Felt: Toriu Ptn. Int. 5-6(MM) Aftershocks felt for one hour. Rabaul, Namatanai - after- shocks felt; little damage some small tidal waves. Felt: Karoola, Londolovit, Sohano, Lolobau Is. Numanuma, Walindi, Fead Is.
	iP	Z	18	20	03	
	i(P)	Z	23	10	44	
	i	Z		11	10	
11th	eP	Z	13	03	45	
	i	Z		03	52	
12th	Nil					
13th	eP	Z	09	29	19	U.S.C.G.S. 9 $\frac{1}{2}$ °S, 161°E.
	i	Z		29	24	Solomon Is.
	e	E		29	24	H = 09 26 44
	i	Z		30	29	M = 6 $\frac{3}{4}$ -7 (Pas)
	i	ZNE		30	49	
	iP	Z	16	27	18	
	iP	Z	17	58	09	
14th	i(P)	Z	10	00	47	
	i	Z		01	18	
15th	Nil					
16th	Nil					

3.

17th	iP i	Z Z	01	09 09	04 06	Felt: Sohano Int.2(MM) Warangoi Int.2(MM) Ulamona Int.1(MM) Aropa Int.2(MM) U.S.C.G.S 6°S, 154°E. Solomon Is. H = 01 08 07
	iP	Z	07	36	25	Felt: Warangoi Int.2(MM) Aropa Int.1(MM)
	iP i	Z Z	19	52 52	47 50	
18th	Nil					
19th	e(P) e e e	Z Z Z Z	11	40 40 42 42	25 40 40 54	
20th	Nil					
21st	iP! i	ZNE E	03	48 48	49 56	
	iP e i i e	Z Z Z Z Z	04	42 43 43 44 45	53 08 43 33 04	U.S.C.G.S. 4°N, 95°E. Sumatra H = 04 32 03
	i(P) i i i i	Z Z ZN ZN N	08	55 55 55 55 56	21 33 43 56 48	
	iP! i i i e	ZNE E E E E	09	33 34 34 34 35	58 02 43 53 07	
	iP i i i i(PcP) i e i(S) e e(ScS)	Z Z Z Z ZE Z E NE NE NE	19	08 08 08 09 10 10 10 12 14 17	24 31 38 33 47 51 52 54 43 12	U.S.C.G.S. 21°S, 179°W. Fiji Is. H = 19 02 40 h = 650 kms (approx) M = 6 $\frac{1}{4}$ (Pas)
	i(P)	Z	21	34	32	
	iP i(PcP) i(PcP) e i(PcS) e(ScS)	ZNE Z Z  Z NE	23	15 16 19 20 22 26	42 49 06 34 36 35	U.S.C.G.S. 1 $\frac{1}{2}$ °S, 123 $\frac{1}{2}$ °E. H = 23 09 38

4.

22nd	iP! i(S)	Z	03	37 38	09 05	Felt: Awelkon Int.2(MM) S-P (Omori) 56 secs.
	iP! e(S)	Z E	05	56 57	29 22	Felt: Kilenge Int.2(MM) Awelkon Int.3(MM) S-P (Omori) 57 secs.
	eP	Z	11	24	27	
	iP	Z	12	50	34	
	eP	Z	20	27	06	
	iP i(S)	Z E	22	07 08	59 53	Felt: Walindi Int.3(MM) Awelkon Int.2(MM) Sangara Int.2(MM) S-P (Omori) 54 secs. U.S.C.G.S. 6°S, 149°E. New Britain H = 22 06 56
	iP i(S)	Z N	22	50 50	09 59	
23rd	iP i i	Z Z Z	14	34 34 34	23 28 52	
	iP	Z	17	07	21	U.S.C.G.S. 11½°S, 163°E. Solomon Is. H = 17 04 09
24th	iP! i(S)	Z E	00	21 21	16 52	U.S.C.G.S. 4½°S, 150°E. New Britain H = 00 19 52 h = 250 kms. (Pas) S-P (Omori) 31 secs.
	eP	Z	12	00	47	
25th	eiP iPP i(S) i(S)	Z Z N E	07	08 08 09 09	33 38 31 36	Felt: Aropa Int.2(MM)
	eP i	Z Z	12	45 45	51 56	Felt: Finschhafen Int.3(MM)
26th	iP!	Z	20	40	01	
27th	iP	Z	01	42	33	
	iP i i	Z Z Z	11	10 10 10	13 27 36	U.S.C.G.S. 10½°S, 166°E. Santa Cruz H = 11 06 32
	eP e(S)	Z E	14	22 23	45 51	
28th	N il					
29th	N il					
30th	iP i	Z Z	11	26 28	31 59	
	iP i iPcP iScS	Z Z Z ZNE	19	26 26 28 35	30 44 59 49	U.S.C.G.S. 19°S, 180°. Fiji Is. H = 19 20 50 h = 650 kms.
31st	N il					

Tremors felt in the Territory, October, 1955.

Date	Locality	Latitude South	Longitude East	Strength Mercalli Modified	Time G.M.T.
Oct. 9th	Vanimo	02 40	141 20	(1 - 2)	0200
	Sangara	08 49	148 09	2	1700
	Tol	05 00	152 05	3	1735
	Ulamona	05 00	151 15	1	1742
	Warangoi	04 30	152 20	4	1742
	Kokopo	04 20	152 15	3+	1742
	Rabaul	04 11	152 10	3+	1742
	Tol	05 00	152 05	3	1742
	Warangoi	04 30	152 20	2	1805
10th	Warangoi	04 30	152 20	2	0510
	Tol	05 00	152 05	6	0900
	Tol	"	"	1	0903
	Popondetta	08 45	148 15	3	0900
	Kokopo	04 20	152 15	6 - 7	0900
	Toriu	04 43	151 41	5 - 6	0900
	Rabaul	04 11	152 10	5	0900
	Namatanai	03 40	152 25	4 - 5	0900
	Karoola	05 10	154 35	4	0900
	Lolobau	04 55	151 10	3 - 4	0900
	Numa Numa	05 50	155 15	3	0900
	Walindi	05 25	150 05	2 - 3	0900
	Fead Is.	03 25	154 45	2	0900
	Kunua	05 50	154 45	5 - 6	0900
	Warangoi	04 30	152 20	7 - 8	0900
	Londolovit	03 05	152 40	4	0900
	Sohano	05 25	154 40	4	0900
	Pomio	05 30	151 30	4	0900
	Warangoi	04 30	152 20	2	0910
	"	"	"	2 - 3	0920
	"	"	"	3	0930
	"	"	"	2	0945
	Rabaul	04 11	152 10	2	0917
	"	"	"	2	1014
	Warangoi	04 30	152 20		1000
	"	"	"		1010
	"	"	"	2	1030
"	"	"	3	1035	
"	"	"	2	1135	
"	"	"	3 - 4	1253	
"	"	"	4	1300	
"	"	"	2	1400	
11th	Vanimo	02 40	141 20	(1 - 2?)	0000
	Fead Is.	03 25	154 45	2	0856
13th	Aropa	06 25	155 50	2	1830
17th	Sohano	05 25	154 40	2	0110
	Warangoi	04 30	152 20	2 - 3	0110
	Ulamona	05 00	151 15	1	0110
	Aropa	06 25	155 50	2	0112
	Warangoi	04 30	152 20	2	0730
	Aropa	06 25	155 50	1	0740
20th	Sangara	08 49	148 09	2	0940
	"	"	"	1	1020
21st	Kilenge	05 30	148 25	3	0933

Date	Locality	Latitude South	Longitude East	Strength Mercalli Modified	Time G.M.T.
Oct. 22nd	Awelkon	05 40	147 50	2	0340
	Kilenge	05 30	148 25	2	0554
	Awelkon	05 40	147 50	3	0600
	"	"	"	1	1015
	Aropa	06 25	155 50	1	1124
	Walindi	05 25	150 05	3	2210
					(NW-SE)
	Awelkon	05 40	147 50	2	2210
	Sangara	08 49	148 09	2	2205
	Kilenge	05 30	148 25	2	2215
23rd	Aropa	06 25	155 50	1	0617
24th	Warangoi	04 30	152 20	2	0225
	Aropa	06 25	155 50	2 - 3	0900
	Kunua	05 50	154 45	3 - 4	1220
	"	"	"	3 - 4	1330
25th	Aropa	06 25	155 50	2	0710
	Finschhafen	06 35	147 50	3	1245
29th	Kilenge	05 30	148 25	2	1700
	Sangara	08 49	148 09	2	2145