MELBOURNE OBSERVATORY GROUP
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

Box 2831AA, G.P.O.
MELBOURNE. VIC

International Seismological Centre

PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

January 1967

1	eP	NEZ	00	27	26	
	e	NEZ		27	28	
	e	Z		27	39	
1	eP	NEZ	01	13	33	
1	eP	NEZ	03	10	35	
	e	EZ		10	54	
1	iP	NEZ	03	19	39.6	dil. N.E.
1	eP	NEZ	04	10	27	
	e	Z		10	38	
	eS	NE		15	43	
	e	NE		18.1		
1	eP	EZ	07	13	40	2.5
	i	NEZ		13	41.5	
	i	N Z		13	54.5	
	e	NEZ		15	27	
	e	NEZ		15	43	
	eS	N		19	50	
	e	E		20	25	
	e	NE		23	44	
	e	EZ		26.2		
1	eP	NEZ	07	48	01	
1	eP	NEZ	07	52	14	
	e	NEZ		52	25	
1	iP	NEZ	08	17	33	
1	iP	NEZ	08	51	51	
1	eP	NEZ	08	56	00	
1	iP	NEZ	09	01	35.6	
	e	N Z		02	04	
	eS	NE		06	43	
	e	N		12.8		
1	eP	NEZ	10	32	41	
1	eP	Z	12	59	53	
1	eP	NEZ	13	11	21	
1	eP	NEZ	13	24	46	
1	eP	NEZ	14	25	08	
	e	N Z		25	20	
	e	Z		25	43	
	eS	NE		30	18	
	e	N Z		33.9		
	e	N		36	21	
1	eP	NEZ	22	05	22	
	e	NEZ		05	26	
	eS	N		10	26	
	e	EZ		13.4		
2	iP	NEZ	01	01	48	
2	eP	Z	01	13	13	
2	eP	NEZ	13	42	26	local
	eS	NEZ		42	34	
2	eP	NEZ	14	57	27	

TOOLANGI (continued)

January 1967

2	eP	NEZ	20	06	18	
	e	NEZ		06	28	
	eS	NE		11	23	
	e	N		13	16	
	e	EZ		16.5		
2	eP	NEZ	20	26	34	
3	eP	NEZ	00	01	55	
	e	N Z		02	03	
3	eP	NEZ	05	42	11	
	e	Z		42	17	
	eS	NE		47	27	
	e	NE		49.7		
3	eP	NEZ	05	59	16	
3	eP	NEZ	06	08	07	
3	eP	NEZ	10	49	54	
3	eP	NEZ	11	11	39	
	eS	NE		16	58	
	e	N		22	10	
3	eP	NEZ	11	23	59	local
3	eP	NEZ	11	37	58	
3	eP	NEZ	12	38	36	
3	eP	NEZ	13	30	08	
3	eP	NEZ	20	36	43	
3	eP	NEZ	21	29	41	
	eS	NE		34	47	
	e	E		36.5		
3	eP	NEZ	21	39	51	
4	eP	NEZ	00	21	02	
4	eP	NEZ	03	00	15	
	eS	NE		05	41	
4	iP	NEZ	03	51	58.2	dil. N.
	i	NEZ		52	08	
4	eP	NEZ	04	26	29	
4	eP	NEZ	11	38	38	
4	eP	NEZ	16	37	16	
	e	NEZ		37	23	
4	eP	NEZ	20	35	21	
	e	Z		38	54	
4	e(P)	Z	20	38	54	
5	eP	NEZ	00	27	53	
	i	N Z		27	59	
	e	NEZ		31	35	
	eS(KS)	NE		38	36	
	e	NEZ		40	16	
5	eP	NEZ	00	55	28	
5	eP	NEZ	02	16	41	
	e	Z		16	49	
	e	Z		16	58	

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TOOLANGI (continued)

January 1967

5	eP	NEZ	06	22	55	
	eS	NE		30	32	
5	iP	NEZ	10	42	13.2	comp.
	i	NEZ		42	27.5	
	i	NEZ		42	31.5	
5	eP	NEZ	21	44	05	
6	eP	NEZ	00	16	06	
	e	Z		16	24	
	eS	NE		26	02	
6	eP	NEZ	04	14	57	
6	eP	NEZ	08	20	47	
6	eP	NEZ	10	10	37	
	e	NEZ		10	45	
	e	N Z		10	57	
	eS	NE		16	43	
	e	N		23.5		
7	eP	NEZ	00	32	58	
	e	N Z		36	24	
	eS	NE		37	33	
	e	NE		38	32	
	e	N		40.0		
7	e(P)	N Z	00	36	24	
7	eP	NEZ	11	39	21	
	e	N Z		39	35	
	e	EZ		39	55	
	eS	N		44	26	
	e	E		44	38	
7	iP	NEZ	13	43	35.4	dil. N.
	e	NEZ		43	52	
7	eP	NEZ	16	00	13	
7	eP	NEZ	16	47	24	
	eS	N		52	34	
	e	N		52	42	
	e	N		55.1		
8	eP	NEZ	15	33	37	
	eS	NE		38	58	

MAWSON

January 1967

1	iP	07	18	37.2
2	iP	09	58	22.5
2	iP	19	57	25.9
3	iP	21	35	50.5

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PRELIMINARY EARTHQUAKE PHASES AT:-
TOOLANGI---MACQUARIE ISLAND---MAWSON

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TOOLANGI

January 1967

9	iP	NEZ	05	52	18	local
	iS	NEZ		52	34	
9	iP	NEZ	19	10	51.6	
	e	Z		11	01	
9	eP	NEZ	19	53	23	
9	iP	NEZ	23	10	14.1	dil.
10	eP	NEZ	00	23	16	
10	eP	NEZ	13	41	23	
	e	N			50.2	
	e	EZ			52.0	
10	eP	NEZ	19	02	10	
11	iP	NEZ	00	50	24	
11	eP	NEZ	01	42	56	
11	eP	NEZ	03	04	24	
11	eP	NEZ	04	41	21	local
	eS	NEZ		41	29	
11	eP	NEZ	06	02	08	
	e	NEZ		03	56	
	e(S)	NE			08.7	
	e	N			11.6	
	e	N			17.8	
11	eP	NEZ	11	10	05	
11	eP	NEZ	11	38	49	
	e	EZ		39	33	
	e	EZ		40	31	
11	eP	N Z	11	56	27	
11	eP	NEZ	21	47	42	
12	eP	NEZ	04	58	26	local
	eS	NEZ		58	42	
12	eP	NEZ	05	30	02	
12	e(P)	NEZ	05	59	26	
12	iP	NEZ	21	46	14.5	
13	eP	NEZ	02	21	07	
13	eP	NEZ	13	54	22	
	e	Z		54	36	
	e	Z		54	43	
	eS	NE		59	24	
	e	NE	14	01	35	
13	eP	NEZ	14	16	19	
13	eP	NEZ	21	55	37	
14	eP	NEZ	03	17	34	
14	eP	NEZ	11	27	06	
14	eP	NEZ	11	34	59	
14	eP	NEZ	12	50	23	
	e	EZ		50	37	
14	eP	NEZ	14	18	30	
	e	Z		18	37	
	e	Z		19	14	
	e	Z		20	05	

TOOLANGI

January 1967

15	iP	NEZ	02	29	05.8	strong
	eS	NEZ		29	28	local
15	eP	NEZ	02	37	34	
15	iP	NEZ	06	24	16.7	comp.
15	eP	NEZ	13	28	51	
	e	Z		29	02	
16	eP	NEZ	04	50	52	
	e	N Z			51 02	
	eS	N			56 04	
	e	N			58.3	
	e	N	05	00	28	
	e	N			01 21	
	e	Z			05.3	
16	eP	NEZ	07	31	10	
16	eP	NEZ	11	15	19	
	eS	N			20 20	
	e	N			22 25	
	e	N Z			26.5	
16	eP	NEZ	11	46	04	
16	eP	Z	11	52	27	
	e	Z		52	36	
16	iP	NEZ	14	32	52.5	
	e	N Z			34 25	
	e	N			35 34	
	eS	N			38 03	
	e	N			38 43	
	e	N Z			40.3	
	e	N			40 40	
	e	N Z			41 47	
	e	N Z			47 26	
16	iP	NEZ	14	47	44.8	2.3
	e	NEZ		49	36	
16	iP	NEZ	14	55	13.5	
16	iP	NEZ	16	08	45.6	
	e	NEZ		09	01	
	e	N		10	01	
	eS	N		13	53	
	e	N		16	13	
	e	N			21.2	
16	eP	NEZ	19	14	22	
17	iP	NEZ	01	23	19.8	comp. S.W. 2.2
	e	Z		23	31	
17	eP	Z	01	36	25	
	e	Z		36	38	
17	eP	NEZ	03	27	40	
17	eP	NEZ	10	57	03	
17	eP	NEZ	12	11	13	
	e	Z		11	15	
	e	N Z		14	09	
	eS	NE		20	51	
	e	E		21	16	
	e	E		24	36	
	e	NE		25	39	
	e	N			30.5	
	e	NE			31.6	
	e	N Z			36.0	

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MAWSON

January 1967

11	iP	06 05 58.4
12	iP	06 39 54.1
12	iP	14 10 14.2
13	iP	03 53 15.5
13	iP	13 59 39.0
13	iP	15 25 44.5
14	iP	12 24 22.6
14	iP	14 12 31.6
14	iP	14 26 12.5
16	iP	07 23 08.7
16	iP	14 38 57.8
16	iP	16 14 55.7
17	iP	01 18 49.0

MACQUARIE ISLAND

January 1967

15	iP	13 24 50.7

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PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

January 1967

18	iP	NEZ	04	33	33	
18	eP(KP)	NEZ	05	48	02	
	e(PP)	Z		50	06	
	eS(PS)	NE		59	26	
	eSS	NE	06	06	07	
	e	NEZ			20.4	
18	eP	NEZ	12	41	19	
18	eP	NEZ	13	59	05	
18	eP	NEZ	14	37	01	
19	eP	NEZ	01	05	23	
	e	Z		05	32	
19	eP	NEZ	01	18	51	local
	eS	NEZ		19	07	
19	eP	NEZ	04	37	31	regional
19	eP	EZ	07	11	37	
19	iP	NEZ	12	44	42.4	comp. 2.5
	e	Z		45	18	
	eS	NEZ		47	38	
	e	NEZ		49	03	
	e	NEZ			53.4	
	e	N			56.5	
	e	EZ			58.7	
20	e(P)	EZ	00	26	04	
20	e(P)	NEZ	00	29	37	
20	iP	Z	02	10	35	
	i	NEZ		10	39	
	e	NEZ		14	17	
	eS(KS)	NE		21	10	
	e	NEZ		22	57	
20	eP	NEZ	02	58	41	
20	eP	NEZ	05	40	40	local
	eS	NEZ		40	56	
20	eP	NEZ	12	22	33	
20	eP	N Z	18	43	16	
21	eP	NEZ	03	04	56	
	e	NEZ		05	10	
	eS(KS)	N		13	57	
	e	NEZ		14	05	
	e	NE		14	27	
	e	NE			18.5	
	e	NEZ			25.3	
21	eP	NEZ	13	54	24	
	e	NEZ	14	02.7		
21	eP	NEZ	15	23	13	
22	eP	NEZ	12	20	42	
22	iP	NEZ	14	27	42	
22	eP	EZ	17	35	35	

TOOLANGI (continued)

January 1967

22	eP	NEZ	21	42	20	
23	eP	EZ	03	45	50	
23	eP	NEZ	08	33	01	Local
	eS	E		33	11	
23	iP	NEZ	09	27	28.4	
	e	N Z		27	55	
	e	Z		29	09	
23	eP	NEZ	11	16	22	
24	eP	NEZ	01	50	36	
24	eP	NEZ	03	17	37	
	e	Z		17	53	
	e	NEZ		18	03	
24	eP	NEZ	06	18	02	
24	eP	NEZ	09	48	53	
	e	NE	10	10.1		
	e	E		15.2		
	e	E		25.7		
	e	NE		27.5		
24	eP	NEZ	23	26(57)		Strong
	e	NEZ		28	04	regional
25	eP	NEZ	02	04	44	
25	eP	NEZ	02	24	10	
25	eP	NEZ	04	19	11	
25	eP	NEZ	10	50	42	
25	eP	NEZ	11	39	20	
25	eP	Z	20	10	10	
26	eP	NEZ	02	23	49	
26	eP	NEZ	06	26	03	local
26	eP	NEZ	16	29	26	
27	eP	NEZ	01	56	07	
27	eP	NEZ	12	43	37	
27	eP	NEZ	14	25	00	
28	iP	NEZ	01	51	04.5	
	e	EZ		51	28	
31	eP	EZ	08	59	37	
	e	N Z		59	40	
	e	Z		59	47	
	e	E	09	02	40	
31	eP	NEZ	13	09	02	

February 1967

1	eP	NEZ	02	03	49	regional
1	eP	NEZ	21	50	17.5	local
2	e(P)	EZ	05	02	36	

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TOOLANGI (continued)

February 1967

2	iP	NEZ	06 38 14.8	comp. S.W. 1.8	
	e	Z	39 40		
	eS(KS)	E	48.7		
	e	E	54.5		
	e	E	07 00.2		
2	eP	NEZ	07 10 25		
	e	Z	12 08		
2	e(P)	Z	07 12 08		
2	iP	NEZ	16 36 25.6		
2	iP	NEZ	18 24 38.1	dil. N. 2.0	
3	eP	NEZ	03 03 11		
3	iP	NEZ	12 55 38.0	comp.	
	e	Z	57 07		
	e	Z	57 11		
	eScP	Z	13 00 09		
	eS	NE	01 39		
	e	N	04 36		
	e	N	07.0		
	e	N	08 15		
3	eP	NEZ	23 38 44	Local	
	eS	NEZ	38 55		
4	eP	NEZ	06 06 45	local	
	eS	NEZ	07 00		
4	iP	NEZ	17 59 26.6		
5	iP	NEZ	05 06 50.6	local	
	eS	NEZ	07 06		

MAWSON

January 1967

22	iP	09 44 40.0	
27	iP	08 19 23.7	
28	iP	14 12 47.6	
28	iP	18 01 48.3	

February 1967

2	iP	06 32 59.7	
2	iP	18 30 31.7	
3	iP	11 59 03.5	
3	iP	12 58 24.6	

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PRELIMINARY EARTHQUAKE PHASES AT : TOOLANGI - MACQUARIE ISLAND - MAWSON

TOOLANGI

February 1967

6	iP	NEZ	03	17	27.5	
	e	Z		17	51	
7	iP	NEZ	08	37	49.1	dil. N. 2.3
	e	NEZ		38	29	
	e	N		53.3		
7	eP	N Z	09	28	14	
	i	NEZ		28	19	
7	iP	NEZ	09	28	19	
7	eP	NEZ	10	45	00	
7	eP	NEZ	23	55	47	
	e	Z		55	56	
8	eP	NEZ	08	21	58	local
	eS	NEZ		22	08	
8	iP	NEZ	17	29	40.3	
9	eP	NEZ	05	41	(47)	
9	eP	NEZ	09	35	19	local
	eS	NEZ		35	29.5	
9	ePKP	NEZ	15	43	52	
	ePP	NEZ		46	13	
	eSKP	Z		47	12	
	ePKS	NE		47	25	
	eSKS	NE		51	18	
	eSKKS	NE		53	16	
	ePS	E		56	17	
	eSS	NE	16	03	10	
	eSSS	NE		08	20	
	eLQ	NE		18	40	
10	eP	NEZ	11	36	29	
	i	NEZ		36	32	
	e	NE		48	36	
	e	N Z		51	20	
11	Nil					
12	iP	NEZ	06	18	08.8	dil.
12	iP	EZ	11	59	16.7	
	e	EZ		59	28	
12	iP	NEZ	18	00	52.7	comp.2.0
	e	Z		01	11	
12	eP	NEZ	21	12	31	
13	iP	NEZ	04	56	30.0	comp. N.W. regional
	i	NEZ		56	36.3	
	eS	NEZ		57	15	
	e	E		57	38	
13	eP	NEZ	23	35	25	
	e	Z		39	16	
	e	E		59.8		
	e	N	24	02.1		
	e	E		04.1		
	e	E		06.1		
	e	E		17.2		
	e	NE		23.2		
13	e(P)	Z	23	39	16	

TOOLANGI (Continued)

February, 1967

14	eP	NEZ	01	47	08	
	e	Z		47	17	
	e	N Z		47	22	
	e	EZ		50	36	
	eS	NE		56	27	
	e	N		56	42	
	e	NE	02	04	22	
	e	NE		05	20	
	e	NE		08	14	
	M	NEZ		20.0		
14	iP	NEZ	05	08	28.5	comp. 2.8
	e	N Z		09	07	
	e	EZ		10	50	
	iS	NEZ		13	08	
	iScP	Z		13	39	
	e	NE		16.3		
	e	N Z		18.7		
	e	N		20.7		
14	eP	EZ	18	20	53	
14	i(P)	NEZ	23	31	56.7	
15	iP	NEZ	06	09	10.3	dil
	i	Z		09	23	
15	eP(KP)	NEZ	16	29	00	
	e	NEZ		30	50	
	e	Z		31	40	
	e	N Z		32	44	
	eS(KS)	NE		35	08	
	e	NE		36	40	
	e	Z		39	00	
	e	N Z		39	39	
	e	N Z		41	09	
	e	Z		41	52	
	e	N Z		42	33	
	e	Z		44.0		
	e	N		46.5		
	e	NEZ		56	51	
	E	NEZ		50.3		
	e	N Z		55.1		
15	eP	Z	19	39	59	
	eS(KS)	N		47	09	
	e	N		48	07	
	e	N		48	30	
	e	N		49.9		

MAWSON

February, 1967

8	iP		15	42	26.1

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TOOLANGI - MACQUARIE ISLAND - MAWSON

Box 2811AA, G.P.O.,
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TOOLANGI

February 1967

16	eP	NEZ	04	13	36	local
	eS	NEZ		13	52	
16	eP	N Z	17	07	38	
16	eP	NEZ	21	37	53	regional
17	iP	NEZ	00	45	59.1	comp. S. 2.3
	e	Z		47	44	
	e(S)	N		52	55	
	e	N		56.0		
17	eP	NEZ	05	36	01	local
	eS	NEZ		36	17	
17	iP	NEZ	10	17	54.6	2.4
	i	EZ		18	09	
	ePP	N Z		19	28	
	e	EZ		19	38	
	e	EZ		19	53	
	eS	NE		23	35	
	eSS	N		26	19	
	eLR	N Z		29.1		
17	eP	NEZ	23	42	29	local
	eS	NEZ		24	40	
18	eP	NEZ	02	45	46	
	ePeP	Z		48	34	
	eS	N		51	00	
	eScS	N		56	08	
	eM	N Z		57.9		
18	iP	NEZ	06	50	03.2	dil.N.W. 1.8
	e		50	40		
	e	Z	50	52		
18	eP	EZ	13	01	24	
19	eP	NEZ	10	45	00	
19	iP	NEZ	12	37	16.5	
19	eP	Z	12	51	39	
19	eP	NEZ	15	42	44	
19	eP	NEZ	19	32	58	
19	eP	NEZ	22	22	10	2.5
	i	EZ		22	34	
	i	EZ		22	42	
	e(ScP)	Z		28	05	
	e(S)	NE		28	14	
	i	NE		28	55	
	i	N		30	31	
	e	Z		31	30	
	i	N		31	42	
19	eP	NEZ	23	36	13	
	e	NEZ		36	45	
	eS	NE		42	29	
	e	NEZ		45	29	
20	eP	NEZ	08	09	00	local
	eS	NEZ		09	10	
20	eP	NEZ	08	55	41	
	e	NEZ		57	22	

TOOLANGI

February 1967

20	e(P)	NEZ	08	57	22
20	eP	NEZ	09	57	04
20	eP	NEZ	12	25	34
20	eP	NEZ	15	32	08
20	eP	NEZ	22	48	08
	eS	NE		53	15
	e	EZ		58.3	
20	eP	NEZ	23	10	03
21	iP	NEZ	04	35	56.5
21	eP	EZ	05	15	35
	e	Z		15	48
	e	Z		15	55
	e	EZ		16	01
21	eP	NEZ	09	20	56
21	iP	NEZ	15	08	19.8
21	iP	NEZ	18	49	51.9
	e	N Z		51	35
	e	Z		51	56
21	eP	NEZ	21	25	27 local
	eS	NEZ		25	43
22	eP	NEZ	07	44	20 local
22	iP	NEZ	14	00	53.4 comp.S.
	i	Z		01	07
	e	Z		01	10
22	iP	NEZ	18	02	24.4
	ipP	EZ		02	44
	isP	NEZ		02	51
	isPP	Z		03	36
	eS	NE		06	56
	esS	NE		07	28
	e	N		08	35
	e	NE		09.7	

MAWSON

February, 1967

17	iP	10	24	58.1
19	iP	14	38	09.3
19	iP	22	25	21.8

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PRELIMINARY EARTHQUAKE PHASES AT : TOOLANGI---MACQUARIE ISLAND ---MAWSON

TOOLANGI

February 1967

22	iP	NEZ	23	40	27.3	
	i	N Z		40	41	
23	eP	NEZ	01	39	48	local
23	eP	NEZ	03	34	50	local
23	eP	NEZ	05	15	25	local
	eS	NEZ		15	40	
23	eP	NEZ	14	36	23	
	e	NEZ		36	40	
	e	Z		36	48	
23	eP	EZ	20	49	38	
24	iP	NEZ	10	48	59.3	dil. NW
	e	Z		49	10	
	e	NEZ		50	40	
25	iP	NEZ	05	47	25.2	
	e	Z		47	36	
25	iP	NEZ	11	28	36.6	comp. S. 2.4.
	e	NEZ		29	02	
	e	Z		39	10	
	e	Z		30	29	
	e	Z		30	45	
	e	Z		31	27	
	e(S)	NE		34	56	
	e	N Z		37	7	
25	iP	NEZ	11	46	30.6	comp. 2.3
	e	EZ		46	55	
	e	Z		48	25	
	e(S)	N		52	49	
	e	Z		56	08	
26	iP	NEZ	10	35	31.7	dil. 1.7
26	eP	EZ	12	03	39	
27	eP	NEZ	06	22	39	local
28	eP	NEZ	05	28	33	local
	eS	NEZ		28	49	
28	eP	NEZ	09	48	31	
	ePcP	N Z		48	49	
	eS	NE		57	39	
	e	NE		58	35	
	eSS	NE	10	02	.1	
	eSSS	NE		05	.2	
28	eP	NEZ	12	01	08	

March 1967

1	eP	NEZ	05	08	28	local
1	eP	NEZ	07	44	32	local
	eS	NEZ		44	42	
1	iP	NEZ	14	32	21.6	.
	e	N Z		32	36	
	e	Z		32	43	
	ePP	N Z		34	00	
	ePcP	N Z		34	05	
	eS	N		38	41	
	eSS	NE		41	49	

MAWSON

February 1967

21	iP	15 58 58.0
21	iP	15 24 58.0
23	iP	06 22 59.5
23	iP	06 39 19.9
23	iP	07 28 42.9
23	iP	12 24 51.4
23	iP	19 09 51.6
23	iP	18 37 46.0
23	iP	21 41 10.1
23	iP	21 54 41.4
23	iP	23 11 21.6
24	iP	00 09 42.0
24	iP	01 00 42.2
24	iP	05 09 46.7
24	iP	13 16 20.9
24	iP	14 16 47.9
24	iP	10 42 35.3
25	iP	00 00 07.0
25	iP	07 25 53.0
25	iP	11 14 22.0
27	iP	08 55 13.0
28	iP	16 04 14.2
28	iP	16 38 17.1

March 1967

1	iP	02 07 43.4
1	iP	05 53 53.5
1	iP	05 55 26.2
1	iP	06 40 07.2
1	iP	14 24 40.2

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TOOLANGI---MACQUARIE ISLAND---MAWSON

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March 1967

2	iP	NEZ	01	31	58.4	
	e(S)	NE		35	30	
	(T max)	NEZ		49	.0	
2	eP	NEZ	03	06	19	
2	eP	NEZ	05	57	54	local
3	eP	NEZ	07	43	05	local
	eS	NEZ		43	12	
3	eP	NEZ	09	00	20	
	e(S)	NE		06	27	
	e	NEZ		09	08	
3	eP	NEZ	12	47	10	
	e	NEZ		49	07	
	e	NEZ		49	14	
	e(S)	NE		50	.3	
3	e(P)	NEZ	12	49	07	
	e	NEZ		49	14	
3	eP	NEZ	14	43	22	
	eS	E		46	.0	
	e	N Z		46	.4	
4	eP	NEZ	04	16	55	
4	iP	NEZ	05	19	37.0	dil. 2.2
	e	Z		20	38	
4	iP	NEZ	06	23	28.2	dil. 2.5
	epP	Z		24	21	
	ePcP	Z		25	36	
	eS	N		29	09	
	esS	NE		30	41	
	e	N		32	34	
	e	N		33	09	
	eScS	NEZ		33	17	
4	eP(KP)	Z	18	17	33	
	e	Z		19	57	
	e	EZ		20	53	
	e	Z		30	00	
	e	NE		37	.9	
	e	NE		47	.5	
	e	N		56	.3	
	e	N	19	01	.5	
	e	NE		06	.5	
4	iP	NEZ	22	49	31.6	dil.
5	eP	NEZ	04	39	24	local
	eS	NEZ		39	40	
6	eP	NEZ	02	50	06	
6	iP	NEZ	04	50	30.5	
	e	Z		51	10	
	e	NEZ		51	11	
	eS	NE		58	48	
6	iP	NEZ	08	18	31.7	
	e	NEZ		19	02	
6	eP	NEZ	12	43	36	
7	eP	NEZ	03	50	35	

TOOLANGI (continued)

March 1967

7	iP	NEZ	04	28	36.4	comp.
	e	Z		28	45	
7	eP	NEZ	05	58	36	regional
7	eP	NEZ	13	54	33	
7	iP	NEZ	16	29	24.7	comp.S.E. 1,8
7	eP	NEZ	17	02	29	
8	eP	NEZ	22	19	49	

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March 1967

3	iP	05	44	40.3
4	iP	14	53	14.7
4	iP	14	39	33.4
4	iP	14	41	57.2
4	iP	14	43	15.9
4	iP	14	43	24.7
4	iP	14	45	21.7
4	iP	17	00	01.8
4	iP	22	59	41.4
5	iP	12	34	38.0
5	iP	12	38	21.1
6	iP	02	26	17.8
6	iP	15	06	10.1
6	iP	16	47	58.9
7	iP	02	18	17.4
7	iP	02	47	29.0
7	iP	03	01	59.0
7	iP	06	26	12.0
7	iP	22	25	24.7
8	iP	00	26	30.5
8	iP	00	47	55.8
8	iP	04	56	56.3
8	iP	04	58	05.4
8	iP	05	41	57.7
8	iP	18	46	04.5
8	iP	21	27	11.5
8	iP	23	01	52.5

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TOOLANGI

March 1967

29	eP	NEZ	01	16	16	
29	eP	NEZ	01	30	11	
29	e(P)	NEZ	01	54	58	
29	e(P)	EZ	09	43	15	
29	eP	NEZ	10	40	36	
	ePP	N Z		41	47	
	eS	N		46	12	
	eScS	E		50	46	
	e	NE		52.6		
	e	N Z		56	12	
29	eP	EZ	13	18	56	
29	eP	Z	16	59	37	
29	eP	NEZ	17	15	31	
29	eP	NEZ	20	50	51	
30	iP	NEZ	02	15	18.1	dil NW 2.3
	eS	NEZ		21	06	
	e	E		21	25	
	e	NE		22	48	
	e	N		23.7		
	e	N		25.8		
	e	N		27.2		
	e	E		27.8		
	e	N		28.1		
30	eP	NEZ	07	15	43	
30	eP	EZ	12	24	30	
30	eP	NEZ	23	12	07	
	e	EZ		12	10	
	e	N Z		12	23	
	e	NEZ		12	26	
	eS	N		18	00	
	e	NE		21	10	
	e	N		22.8		
31	eP	NEZ	05	22	50	local
	eS	NEZ		23	06	
31	eP	N Z	07	04	04	
31	eP	EZ	10	42	08	
31	eP	NEZ	10	46	25	
31	eP	EZ	18	45	22	
31	eP	NEZ	20	11	12	
	e	N Z		11	15	
	e	N Z		11	27	
	e	Z		14	14	
	eS	N		15	58	
	e	N		17	51	
	e	N		18	30	

April 1967

1	eP	NEZ	04	49	20	local
	eS	NEZ		49	36	
1	eP	NEZ	06	05	22	

TOOLANGI

April 1967

1	eP	EZ	06	06	44	
	e	EZ		06	55	
	e	Z		09	43	
	eS(KS)	NE		17	00	
1	iP	NEZ	08	57	15	
1	eP	NEZ	12	16	11	
	e	Z		28.8		
1	eP	NEZ	12	35	58	
	e	Z		36	06	
	eS(KS)	N		46	21	
1	eP	EZ	14	13	06	
2	No S.P. records due faulty drum drive.					
2	e	NE	17	52	02	
	e	NEZ		55	38	
3	eP	NEZ	04	46	56	
	e	EZ		47	04	
	e	EZ		47	07	
	e	Z		47	19	
3	eP	NEZ	07	02	53	
	e	NEZ		03	09	
	e	Z		03	14	
3	eP	NEZ	08	10	42	
	e	Z		11	03	
	eS	NE		15	52	
	eSS	E		18	16	
	eLR	N Z		19.7		
	eM	NE		23.6		
3	eP	NEZ	13	06	04	
	e	EZ		06	12	
	e(S)	N		12	16	
	e	NE		15.2		
	eLR	NEZ		19	26	
3	eP	NEZ	15	56	30	
	e	Z		57	09	
3	eP	EZ	16	55	56	
4	iP	NEZ	00	44	26.6	
	e	NEZ		44	35	
	e	Z		44	56	
	eS	NE		50	03	
	e	NE		56	30	
	e	NEZ		59	50	
4	eP	EZ	01	25	47	
4	eP	NEZ	02	51	42	local
	eS	NEZ		51	43	
4	eP	NEZ	04	19	48	
	e(S)	NE		23	12	
	e	N		25.4		
4	eP	NEZ	07	07	29	local
	eS	NEZ		07	36	
4	eP	NEZ	09	16	42	
4	eP	NEZ	12	04	07	

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March 1967

29	iP	11	14	24.4
29	iP	12	50	42.6
29	iP	17	11	39.8
29	iP	17	45	17.3

April 1967

1	iP	13	48	09.2
4	iP	18	12	46.5
4	iP	20	10	44.0

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PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

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TOOLANGI

March 1967

9	eP	NEZ	03	30	50	
	e	NEZ		39.6		
9	eP	NEZ	03	44	45	
9	eP	NEZ	05	44	46	
9	eP	NEZ	05	58	50	
	eS	NE	06	04	18	
	e	NE		06.3		
9	eP	NEZ	07	05	06	
	e	N Z		05	09	
	eS	N		10	26	
	e	E		10	32	
	e	NE		12	38	
	e	NEZ		14.7		
9	eP	NEZ	08	23	02	
9	eP	NEZ	18	06	11	
9	eP	NEZ	18	09	13	
	e	N Z		09	18	
	eS	NE		14	35	
	e	NE		16	28	
	e	N Z		18.0		
9	eP	NEZ	18	34	51	
9	eP	NEZ	21	01	28	
9	eP	NEZ	21	32	15	
10	eP	EZ	00	24	30	
10	iP	NEZ	00	41	17	
10	eP	NEZ	01	58	58	
	e	NEZ		59	02	
10	iP	NEZ	06	39	45.7	dil.
10	eP	NEZ	10	19	49	
10	eP	NEZ	17	23	14	
11	iP	NEZ	08	39	56.2	dil. NE
	i	NEZ		40	03	
	eS	NE		45	14	
	e	N Z		48.8		
11	eP	NEZ	15	03	58	
	e	EZ		04	07	
11	eP	EZ	17	08	56	
	e	NEZ		09	08	
	e	EZ		09	22	
11	eP	EZ	18	01	47	
11	eP	NEZ	21	02	53	
12	eP	EZ	01	36	45	
	e	EZ		37	01	
12	eP	NEZ	01	59	47	
12	eP	Z	03	04	03	
13	eP	NEZ	00	38	25	
13	eP	NEZ	03	12	36	local
	eS	NEZ		12	48	

TOOLANGI (continued)

March 1967

13	e(P)	NEZ	04	59	49	
	e	N Z	05	00	17	
13	iP	NEZ	07	43	48.1	
13	eP	NEZ	16	20	11	
	e	NEZ		20	18	
13	iP	NEZ	17	35	19.5	
	i	N Z		35	32.5	
	e	NEZ		37	02	
13	eP	NEZ	19	09	11	
14	eP	NEZ	07	02	16	local
	eS	NEZ		02	32	
14	eP	NEZ	07	10	21	
	e	EZ		10	26	
	e	Z		10	36	
	eS	E		20	32	
14	iP	NEZ	23	30	25.6	
	i	Z		30	56	
15	eP	NEZ	02	04	17	local
15	eP	NEZ	06	45	29	
	e	NEZ		46	21	
15	eP	NEZ	07	00	18	local
	eS	NEZ		00	34	
15	eP	NEZ	08	11	59	local
15	eP	NEZ	22	14	32	

MAWSON

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9	iP	05 00 38.6
9	iP	06 02 27.2
9	iP	11 08 42.6
10	iP	02 29 39.4
10	iP	14 01 55.1
10	iP	17 58 54.5
10	iP	23 50 13.4
11	iP	00 18 16.4
12	iP	05 16 26.9
12	iP	13 33 43.9
12	iP	13 40 01.9
12	iP	13 45 55.9
12	iP	13 46 40.2
12	iP	16 03 36.4
12	iP	16 31 21.8
12	iP	19 41 23.0
12	iP	20 09 34.5
12	iP	20 09 39.9

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MAWSON (continued)

March 1967

12	iP		23 23 02.6
12	iP		23 47 42.1
13	iP		04 50 25.5
13	iP		08 03 04.4
13	iP		09 32 08.6
14	iP		04 57 09.4
14	iP		04 58 46.4
14	iP		08 32 14.0
14	iP		10 25 39.2
15	iP		05 17 30.0
15	iP		16 41 14.8
15	iP		16 55 22.3
15	iP		19 16 26.1
15	iP		19 16 31.2
15	iP		19 16 36.1
15	iP		19 16 55.6
15	iP		21 53 54.3
16	iP		00 59 36.4

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PRELIMINARY EARTHQUAKE PHASES AT : TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

March 1967

16	eP	NEZ	07	15	03	
16	iP	NEZ	12	15	11.3	
	e	Z		15	17	
	e	Z		15	32	
	eS	NE		17	42	
	e	EZ			22.3	
16	iP	NEZ	17	38	51.9	comp. SW. 2.5
	iS	NEZ		43	26	
	e	Z		43	31	
	e	EZ		44	04	
16	eP	NEZ	19	08	38	
16	eP	NEZ	19	52	38	
16	eP	NEZ	21	00	27	
17	eP	NEZ	11	31	29	
	e	N Z		31	35	
	e	NEZ		31	41	
	ePcP	N Z		32	54	
	eS	NE		36	49	
	eSS	NEZ		39	10	
	e(ScS)	N Z			41.5	
18	eP	NEZ	02	14	18	
18	iP	NEZ	09	33	42.8	dil. E. 2.1
18	iP	NEZ	14	00	30	strong local
	iS	NEZ		00	47	
18	eP	NEZ	19	21	49	
19	iP	NEZ	01	17	25.5	
	e	NEZ		17	42	
	eS	NE		22	40	
19	No record from 01 30 to 05 24. Servicing S.P. recorder.					
19	eP	NEZ	16	02	26	
20	eP	NEZ	08	54	05	
20	eP	EZ	13	44	00	
	eS	NE		54	13	
20	eP	NEZ	13	53	26	
	eS	NE	14	03	35	
20	e(P)	Z	14	04	38	
20	iP	NEZ	18	12	46.6	
20	eP	NEZ	19	13	02	
	e	Z		13	10	
	eS	NE		18	10	
	e	Z		20	09	
21	eP	NEZ	05	03	27	local
	eS	NEZ		03	43	
21	iP	NEZ	08	39	11	
21	eP	NEZ	08	43	40	
21	iP	EZ	11	31	46.5	
	e	Z		32	02	
21	eP	Z	18	30	43	

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16	iP	04	54	10.3	
16	iP	04	54	41.5	
16	iP	09	06	03.3	
16	iP	09	06	06.2	
16	iP	07	55	24.6	
16	iP	07	55	38.1	
16	iP	07	19	37.9	
16	iP	09	26	51.4	
16	iP	14	46	34.6	
16	iP	17	47	45.7	
16	iP	17	47	47.2	
16	iP	17	47	41.4	
17	iP	02	45	20.2	
17	iP	08	10	53.6	
17	iP	11	19	52.7	
17	iP	13	38	15.2	
17	iP	19	26	44.7	
17	iP	22	16	37.5	
18	iP	06	38	01.8	
18	iP	06	39	37.8	
18	iP	06	42	31.2	
18	iP	10	44	31.9	
18	iP	10	50	09.1	
18	iP	10	50	31.6	
18	iP	10	50	55.9	
18	iP	10	51	38.7	
18	iP	14	24	37.2	
18	iP	14	24	35.1	
18	iP	15	38	25.8	
18	iP	17	02	41.7	
18	iP	18	30	29.8	
18	iP	17	35	42.5	
19	iP	00	54	11.0	
19	iP	01	22	24.8	
19	iP	01	37	29.4	
19	iP	04	00	31.0	
19	iP	05	03	55.9	
19	iP	14	47	40.8	
19	iP	23	11	54.2	
20	iP	00	43	59.6	
20	iP	02	30	08.2	

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MAWSON (continued)

March 1967

20	iP	02 30 23.2
20	iP	02 30 27.5
20	iP	10 20 54.7
20	iP	14 13 03.4
20	iP	17 26 07.6

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PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

March 1967

?2	eP	NEZ	04	06	12	
22	eP	NEZ	06	14	38	
22	iP	NEZ	13	06	48.9	comp. 2.3
	e	Z		07	00	
23	e(P)	EZ	00	43	06	
23	eP	NEZ	15	09	48	
24	eP	NEZ	02	05	05	
	e	Z		05	29	
24	iP	NEZ	09	07	34.0	dil. NW 2.8
	ePP	NEZ		09	28	
	esP	EZ		10	20	
	esPP	NEZ		12	01	
	iS	NEZ		13	22	
	eScS	N		16	15	
	eSS	E		16	52	
	e	N Z		17	15	
	e M	N		22	13	
24	iP	NEZ	11	53	28.3	dil. NW 2.0
	i	NEZ		55	01	
	e	Z		55	23	
	e	Z		56	23	
24	iP	NEZ	18	40	01.6	dil.
24	iP	NEZ	19	14	33.4	comp.
	e	N Z		14	45	
	e	Z		15	09	
24	iP	NEZ	23	05	52.5	comp.
25	iP	NEZ	07	45	50.5	dil.
25	iP	NEZ	19	54	00.8	comp.
25	iP	EZ	20	53	41.5	
25	eP	NEZ	23	00	20	
	e	N Z		00	35	
	eS	NE		10	40	
26	eP	NEZ	03	16	11	local
	eS	NEZ		16	22	
26	eP	NEZ	17	08	54	
26	eP	NEZ	22	44	57	
	e	Z		45	11	
	eS	N		49	51	
	eScS	N		55.5		
27	eP	NEZ	08	22	02	
	e	Z		22	07	
27	eP	EZ	08	44	23	
27	iP	NEZ	09	10	31.3	
	e	N Z		10	38	
27	iP	NEZ	09	29	37.3	
	e	N Z		29	47	
	e(S)	NE		33	34	

TOOLANGI (continued)

March 1967

27	iP	NEZ	10	07	46.8	
	eS	NE		12	39	
	eSS	NE		13	49	
	eL	NE		16	21	
	eScS	N		18	26	
28	iP	NEZ	01	09	10.4	dil.
28	eP	NEZ	06	16	18	
28	eP	NEZ	19	42	19	
28	eP	NEZ	21	10	21	
28	eP	NEZ	21	26	21	

MAWSON

March 1967

24	iP	09	10	33.4
24	iP	11	56	27.5
25	iP	00	12	14.7
26	iP	03	53	33.9
26	iP	07	29	47.0
26	iP	09	58	55.4
26	iP	17	07	32.7
26	iP	18	02	18.2
26	iP	22	54	21.7
27	iP	01	16	46.3
27	iP	11	14	25.6

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PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

April 1967

26	e(P)	N Z	06	43	03
26	eP	NEZ	13	22	07
	e	Z		22	11
	e	Z		22	20
	e	EZ		22	24
	e	Z		23	05
26	eP	NEZ	13	44	51
26	eP	NEZ	21	53	15
	eS	NE			58.8
	e	E	22	03.0	
27	eP	EZ	00	54	08
27	eP	NEZ	07	01	44 local
27	iP	NEZ	08	16	49.6 comp. 1.9
	e	N Z		17	03
	e(S)	NE		22	35
	e	E		30.1	
	e	N Z		33.0	
27	e(P)	NEZ	08	43	47
27	iP	EZ	12	30	08.7 dil.
28	eP	NEZ	03	44	59 local
	eS	NEZ		45	15
28	eP	NEZ	07	11	46 local
28	eP	NEZ	07	25	22
28	iP	NEZ	16	24	28.5
	i	Z		24	45.5
29	eP	Z	04	08	35
	e	Z		09	01
	e(S)	N		19	06
	e	N		26	18
	e	N		39.6	
	e	N		43.7	
29	eP	NEZ	12	38	57
29	eP	NEZ	22	27	08
30	iP	NEZ	17	06	02.5 comp.S.2.1
	e	N Z		06	13
	e	Z		06	18
	ePP	N Z		07	26
	eS	N		11	48
	eLR	N		16.3	
	e	N Z		22	14
	e	N Z		23	44

May 1967

1	eP	NEZ	04	07	32
1	eP	NEZ	05	21	47 local
	eS	NEZ		22	03
1	eP(KP)	EZ	07	28	13
	e	NEZ		28	24
	e(PP)	N Z		31	57

TOOLANGI (continued)

May 1967

1	e(P)	N Z	07	31	57
1	iP	NEZ	22	52	28.5
2	iP	NEZ	11	44	19.0
2	eP	NEZ	17	16	18
	eS	NE		21	17
	e(ScP)	EZ		22	35
	e	E		25.0	
	e	N		27	04
2	e(P)	EZ	17	22	35
2	eP	NEZ	18	07	10
	e	Z		08	54
2	eP	NEZ	21	32	39

MAWSON

April 1967

26	iP	13	30	27.9
26	iP	17	37	44.2
26	iP	18	06	12.0
26	iP	18	21	37.8
27	iP	15	03	50.2
27	iP	15	06	08.0
27	iP	18	04	54.5
27	iP	22	58	00.1
28	iP	06	48	21.0
28	iP	22	43	35.0
29	iP	05	14	57.0

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PRELIMINARY EARTHQUAKE PHASES AT : TOOLANGI - MAWSON

TOOLANGI

April 1967

13	eP	NEZ	08	36	02	
	e	EZ		36	20	
13	iP	NEZ	17	20	04.8	dil. E 2.2
	e	Z		20	35	
13	iP	NEZ	18	53	02.5	comp.
13	eP	NEZ	20	04	30	
	e	NEZ		04	46	
14	eP	Z	01	28	36	
14	eP	NEZ	04	40	56	
14	eP	NEZ	08	08	30	
14	iP	NEZ	23	39	25.3	
15	eP	NEZ	00	36	51	
	e(S)	E		38	32	
	e	E		38	40	
	e	N Z		38	44	
15	eP	NEZ	09	06	21	
15	eP	EZ	12	17	06	
15	eP	EZ	14	55	27	
15	eP	NEZ	16	02	12	
	e	Z		02	28	
	e	Z		02	43	
	eS	NE		06	55	
	eSS	N		08	33	
15	eP	NEZ	22	21	24	
16	eP	NEZ	01	20	47	
16	eP	NEZ	01	39	57	
16	eP	NEZ	02	08	02	
16	e(P)	Z	02	31	00	
16	iP	NEZ	06	50	37	
16	eP	NEZ	07	24	37	
	e	EZ		24	45	
	e	EZ		24	51	
	e	Z		36	31	
16	eP	EZ	07	36	31	
16	iP	NEZ	16	39	54	
16	eP	EZ	18	25	38	
16	eP	NEZ	22	31	01	
17	iP	NEZ	04	28	58.5	
17	eP	NEZ	06	14	36	local
	eS	NEZ		14	40	
	eL	NEZ		14	43	
17	iP	NEZ	11	17	57.7	

TOOLANGI (Contd.)

April 1967

17	iP	NEZ	11	24	36.7	
	e	NEZ		24	45	
	e	Z		25	11	
	eS	NE		29	46	
	eLQ	N		31.6		
	e	N		34.7		
	e	N		35.1		
17	iP	NEZ	17	51	04.3	dil.
18	eP	NEZ	04	56	55	
18	eP	NEZ	06	29	12	
	e	Z		29	22	
18	eP	Z	07	24	06	

MAWSON

April 1967

13	iP		18	45	34.6
14	iP		11	37	33.0
15	iP		08	58	44.0
16	iP		18	34	51.4
16	iP		19	48	38.0
17	iP		02	06	43.0
17	iP		04	53	07.0
17	iP		05	33	08.2
17	iP		23	28	09.5

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PRELIMINARY EARTHQUAKE PHASES AT :

TOOLANGI - MAWSON

TOOLANGI

April 1967

5	iP	NEZ	02	43	55.7	
	e	N Z		44	18	
	eS	N		51	54	
	e	N		52	27	
	e(SSS)(LQ)E			58.2		
	e(LR)	N	03	01	18	
5	iP	NEZ	02	57	40.4	
	e	Z		57	56	
	e(PPP)	N	03	01	18	
	eS	NE		05	39	
5	iP	NEZ	11	50	21.2	dil E 2.1
5	iP	NEZ	21	37	20.6	dil 2.6
5	eP	NEZ	22	33	18	
	e	NEZ		33	23	
	e	NEZ		33	30	
5	eP	NEZ	23	39	15	
5	iP	NEZ	23	56	58.5	
6	eP	NEZ	12	07	25	
	e	N Z		07	37	
	e	Z		08	09	
6	eP	NEZ	12	31	46	
	e	N Z		32	04	
6	eP	NEZ	21	00	34	
	e	N Z		01	22	
7	eP	NEZ	07	03	33.5	local
7	eP	NEZ	07	30	12	local
7	eP	EZ	14	37	32	
7	eP	NEZ	16	49	47	
	e	NEZ		49	50	
	e	N Z		49	56	
8	eP	NEZ	05	41	28	1.9
	e	Z		41	44	
	eS	N		46	24	
	e(SSS)	N		49	34	
	e(LR)	N		50	34	
8	eP	NEZ	20	22	16	
8	iP	NEZ	22	39	14.0	comp.
9	eP	NEZ	00	11	59	
	e	NEZ		12	01	
	e	NEZ		13	20	
	e(S)			17	22	
	e	NE		17	36	
	e	NEZ		20	30	
	e	NEZ		21.5		
9	iP	NEZ	01	34	26.0	comp. 1.8
	e	Z		35	00	
9	eP	NEZ	06	36	30	1.9

TOOLANGI (Contd.)

April 1967

9	eP	NEZ	09	03	(24)	
	e	NEZ		03	35	
	e(S)	N		08	36	
	e	NE		11.6		
9	eP	NEZ	17	48	27	
	e	N Z		49	26	
	e	N Z		49	33	
	e	N Z		49	37	
	e	N Z		49	53	
	e	N Z		50	10	
	e	Z		51	10	
9	eP	NEZ	21	25	06	
	e(S)	N		30	18	
	e	NE		33.6		
10	eP	NEZ	00	05	04	
	e	N		15	20	
10	eP	NEZ	05	06	13	
	e	NEZ		06	19	
	eS	NE		11	21	
	eLR	NEZ		14	50	
	e	N Z		17	43	
10	eP	NEZ	10	08	49	
	e	Z		09	01	
10	eP	NEZ	12	59	18	
10	eP	NEZ	15	09	04	
	e	N Z		09	16	
	eS	NE		14	06	
	eScP	Z		15	39	
	eLR	NE		17.6		
10	e(P)	Z	15	15	39	
10	eP	NEZ	16	55	07	
	e	NEZ		55	11	
	e	Z		55	20	
	eS	NE	17	01	07	
	eSS	NE		03	55	
	eLR	N		06	20	
10	eP	EZ	20	36	25	
10	eP	EZ	21	10	09	
10	eP	NEZ	21	55	47	
	eS	NE	22	00	48	
	eLR	NE		09	22	
10	iP	NEZ	23	19	52.6	
	e	NEZ		20	02	
11	eP	NEZ	00	28	24.5	regional
11	eP	NEZ	03	20	00	

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TOOLANGI (Contd.)

April 1967

11	eP	NEZ	05	17	02	
	e	Z		17	12	
	ePP	NEZ		18	40	
	e	N Z		18	58	
	eS	NE		23	22	
	e	N		24	17	
	e	NE		26	24	
	e	N		31	07	
	e	N		34.6		
11	eP	NEZ	06	33	00	regional
11	eP	NEZ	13	02	33	
11	iP	NEZ	19	09	57.0	1.9
11	eP	NEZ	20	46	03	
12	eP	NEZ	00	58	58	regional
12	eP	Z	02	07	01	
	e	NEZ		07	05	
12	iP	NEZ	04	37	14.4	dil. N.E.
12	eP	NEZ	05	00	39	
12	iP	NEZ	05	01	59.9	comp. S.E. 2.7
	eS	NE		10	28	
	eSS	NE		14	39	
	eSSS	N		17.3		
	M	EZ		27.0		
12	iP	NEZ	05	21	37.0	comp. 2.0
12	iP	NEZ	05	28	27.5	
12	iP	NEZ	05	51	12.0	dil. 1.8
12	eP	NEZ	06	13	59	
12	iP	NEZ	07	49	04	local
	iS	NEZ		49	16	
12	e(P)	NEZ	08	38	07	
12	eP	NEZ	13	52	27	
	e	Z		53	16	
	e	Z		53	40	
	eS	NE		57	29	
12	eP	NEZ	14	01	15	
	e	NEZ		01	24	
	eS	NE		06	22	
12	eP	NEZ	14	58	10	
	eS	N	15	03	17	
	e	NE		06.1		
	e	N		10.3		
12	eP	NEZ	18	13	42	
	e	Z		13	56	
	e	NEZ		14	10	
12	iP	NEZ	19	44	05.4	comp. 1.8

MAWSON

April 1967

5	iP	22	41	56.5
8	iP	05	46	34.4
8	iP	08	17	05.5
8	iP	10	37	40.0
8	iP	18	56	00.0
9	iP	08	04	03.1
9	iP	09	09	30.1
9	iP	11	13	37.4
9	iP	14	43	30.5
9	iP	23	18	23.1
10	iP	15	15	14.9
11	iP	05	44	45.1
12	iP	04	43	25.8
12	iP	05	03	26.9
12	iP	05	23	04.4

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PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

April 1967

19	eP	NEZ	04	40	17.5	local	
19	iP	NEZ	17	20	45.9	dil.	
19	eP	NEZ	22	16	27		
20	iP	NEZ	00	08	03.9	dil. NW.	2.4
	e	N Z		09	19		
	e	N Z		09	22		
	e	N Z		09	28		
	e(S)	E		15	24		
	e	NE		15	48		
	e(ScS)	N		16	51		
	e	N		18	02		
	e(SS)	NE		19	48		
	e(SSS)	NE		22	38		
20	eP	NEZ	07	07	39	local	
	eS	NEZ		07	49		
20	eP	NEZ	12	01	06		
21	iP	NEZ	08	21	27.4		
	i	NEZ		21	34		
	i	NEZ		21	40		
	eS	NE		27	09		
	e	NE		28	36		
	eSS	NE		29	08		
	eSSS	NE			29.8		
	e	NE		30	26		
	e	NE			34.0		
	e	NEZ			34.6		
	e	N			35.5		
	e	EZ			37.3		
21	eP	NEZ	11	27	23		
21	iP	NEZ	14	44	26.1	dil.	
21	iP	NEZ	16	38	54.5	comp.	
22	iP	NEZ	08	44	28.0		2.0
	e	EZ		44	37		
	e	Z		44	44		
	eS	NE		50	08		
	eSS(LQ)	NE		52	38		
	eM	NE			59.0		
22	eP	NEZ	12	01	30		
	e	Z		01	39		
22	iP	NEZ	13	17	58.7	comp.	2.1
	i	EZ		18	05		
	i	Z		18	19		
	e	N Z		18	50		
	e	Z		18	57		
22	eP	Z	15	02	24		
	e	Z		02	29		
22	eP	NEZ	17	36	30		
	e	Z		36	44		
22	iP	NEZ	19	48	33.8	comp. SE.	2.0
	e(S)	N		55	23		
22	iP	NEZ	22	08	34.3	comp.	
23	eP	NEZ	05	01	00	local	
	eS	NEZ		01	16		
23	eP	NEZ	05	06	21	local	
	eS	NEZ		06	37		

TOOLANGI (continued)

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23	eP	NEZ	07	56	00	local
	eS	NEZ		56	09	
23	iP	NEZ	09	50	13.0	
	i	EZ		50	17	
23	eP	NEZ	12	59	11	
	i	Z		59	16	
23	eP	EZ	15	12	27	
23	iP	NEZ	18	01	47.7	
	e	NEZ		02	00	
24	iP	NEZ	05	23	13.4	
24	eP	NEZ	06	45	15.5	local
	eS	NEZ		45	21	
24	iP	NEZ	08	10	27.3	
24	eP	NEZ	11	08	27	
24	eP	NEZ	16	45	43	
24	iP	NEZ	18	58	39.5	
	i	N Z		58	47	
24	iP	NEZ	20	37	04.5	local
	eS	NEZ		37	21	
25	eP	EZ	07	05	49	
25	eP	NEZ	12	04	26	strong local
	eS	NEZ		04	36	
25	eP	NEZ	15	30	30	
25	eP	EZ	20	24	48.5	
25	eP	NEZ	22	12	08	

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19	iP	04	17	17.3	
20	iP	00	12	56.3	
20	iP	03	55	32.2	
20	iP	06	20	25.9	
21	iP	08	26	06.9	
23	iP	07	11	16.1	
23	iP	07	12	39.2	
23	iP	07	12	53.7	
24	iP	15	44	30.2	
24	iP	20	58	56.0	
25	iP	10	47	45.0	
25	iP	15	35	58.0	
25	iP	18	51	48.5	

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TOOLANGI

May 1967

3	e(P)	NEZ	04	24	19	
3	eP	NEZ	07	51	28	
3	iP	NEZ	10	53	56.0	comp.
3	eP	NEZ	14	09	51	
4	iP	NEZ	08	30	14.1	
	e	[illegible]		30	22	
	e	N [illegible]		33	34	
	e	[illegible]		33	42	
4	e(P)	[illegible]	08	33	34	
4	eP	[illegible]	09	24	38	
	e	[illegible]		24	47	
4	eP	NEZ	10	26	14	
	e	NEZ		26	20	
	e	[illegible]		26	27	
	eS	[illegible]		35	06	
	e(PS)	N		35	26	
4	e(P)	[illegible]	13	39	02	
4	eP	NEZ	16	28	20	
	e	N Z		28	30	
	e	N Z		28	36	
4	eP	NEZ	23	36(49)		
5	eP	NEZ	04	27	51	local
	eS	NEZ		28	07	
5	eP	NEZ	07	50	13	local
	eS	NEZ		50	31	
5	eP	NEZ	12	36	30	
	e	N Z		36	45	
	e(S)	NE		39	32	
	e(SSS)	NE		40	04	
	e(PcP)	NE		41.2		
	T Max.	NEZ		53.8		
5	eP	Z	12	45	14	
5	iP	NEZ	15	06	19.2	comp. 2.2
	eS	NE		11	20	
	eSSS	NE		13	30	
	eLR	N Z		15.3		
5	eP	Z	16	04	45	
5	eP	NEZ	17	46	24	
	e	NEZ		46	40	
	eS	NE		53	04	
	eScS	NE		56	16	
5	eP	NEZ	21	39	27	regional
	eS	NEZ		40	15	
6	eP	NEZ	10	21	06	
6	eP	NEZ	13	13	54	
	e	Z		14	02	
6	iP	NEZ	14	20	12.5	
	e	Z		20	17	

TOOLANGI (continued)

May 1967

6	eP	NEZ	15	51	55	
6	e(P)	EZ	23	38	09	
7	iP	NEZ	10	23	37.5	comp.
	e	Z		23	46	
	eS	N		29.0		
7	eP	EZ	19	48	09	
8	eP	NEZ	01	55	29	local
	eS	NEZ		55	41	
8	iP	NEZ	18	51	00.3	
	e	Z		51	13	
	e	EZ		54	03	
8	e(P)	EZ	18	54	03	
8	iP	NEZ	21	15	03.5	dil.
8	eP	NEZ	23	01	45	
9	eP	NEZ	05	17	22	
9	eP	NEZ	05	45	35	local
	eS	NEZ		45	40	
9	eP	EZ	06	02	54	
9	eP	EZ	09	37	34	
9	eP	NEZ	16	06	27	
9	iP	NEZ	19	32	39.6	
9	e(P)	EZ	20	21	18	

MAWSON

May 1967

3	iP	11	51	47.0
3	iP	14	51	04.1
4	iP	08	25	06.8
4	iP	08	30	54.7
5	iP	15	12	32.8
5	iP	16	03	09.0
5	iP	17	48	50.5
5	iP	22	41	38.1
5	iP	22	42	26.6
5	iP	22	43	46.0
6	iP	14	19	35.3
8	iP	11	00	27.1
8	iP	17	25	59.3
8	iP	18	56	02.5
9	iP	14	31	18.1
9	iP	17	21	27.0
9	iP	19	12	36.9
9	iP	19	47	28.0
9	iP	21	42	30.0

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TOOLANGI

May 1967

25	eP	Z	06	31	32	Local
	e(S)	NEZ		31	41	
25	e	Z	10	00	08	
	e	Z		00	12	
25	e	Z	18	47	33	
26	iP	EZ	02	49	39.6	comp.E
26	eP	NEZ	04	38	04	
	e(S)	NEZ		38	20	
26	eP	Z	09	49	43	
	e	N Z		49	57	
	e	Z		50	08	
26	iP	N Z	19	43	29.6	dil. N
26	e(P)	NEZ	21	31	03	
27	eP	NEZ	06	44	58	Local
	e	E		45	43	
27	eP	Z	17	36	11	
	e	E		46	39	
	e	E		47	17	
	e	E		48	30	
	e	E		53	45	
	e	E	18	02	43	
	e	E		07	51	
	e	E		13	07	
27	eP	Z	19	19	15	
	e	E		37	17	
	e	E		44	50	
28	iP	NEZ	06	35	41.7	dil. N.E.
29	eP	NEZ	04	49	34	
	e	Z		49	37	
	e	N		49	44	
29	e	Z	05	01	54	
29	e	Z	11	16	45	
29	iP	Z	20	12	24.4	comp.
29	iP	Z	21	13	47.0	comp.
30	eP	Z	00	57	38	
	e	N		57	48	
30	e	NEZ	02	00	02	
30	e	NEZ	06	51	20	
	e	NEZ		51	22	
30	eP	Z	07	13	25	
30	eP	EZ	15	17	01	
30	eP	N Z	16	48	50	
31	eP	Z	10	48	14	
31	eP	Z	11	58	15	
	e	Z		58	33	

MAWSON

May 1967

29	iP	17	11	02.6	
30	iP	00	48	47.4	
30	iP	19	09	58.5	
30	iP	19	24	13.1	
30	iP	19	50	48.2	
31	iP	00	18	37.5	
31	iP	00	34	37.5	
31	iP	07	14	16.7	
31	iP	14	06	50.4	
31	iP	14	51	10.7	

June, 1967

1	iP	03	56	02.0	

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TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI						
May 1967						
16	iP	NEZ	23	14	24.6	
16	iP	NEZ	23	17	32.4	dil. E.
17	iP	NEZ	08	28	28.6	
	e	EZ		28	47	
17	eP	NEZ	10	00	50	
	e	Z		01	04	
17	eP	NEZ	13	03	08	
17	eP	EZ	16	20	14	
18	eP	NEZ	01	49	06	
	e	NEZ		49	15	
18	iP	NEZ	23	50	21.3	
	e	NEZ		50	36	
9	iP	Z	05	15	09.3	
	e	NEZ		18	36	
19	eP	NEZ	07	13	30	
	e	NEZ		13	37	
19	eP	NEZ	07	58	20	
19	eP	NEZ	12	08	38	
19	iP	Z	12	58	38.4	
20	iP	Z	03	00	53.1	comp. Z
20	eP	Z	03	21	35	
20	eP	NEZ	05	44	07	
	e	E		48	18	
20	eP	Z	13	14	18	
21	eP	Z	04	01	19	
21	eP	Z	12	23	38	
21	iP	NEZ	18	54	22.9	comp. N.W.
	eS	NE	19	01	48	
	e	Z		07	15	
22	iP	Z	03	25	20.0	comp. Z
	e	E		25	45	
22	eP	Z	04	47	52	
	e	Z		48	07	
22	eP	Z	11	30	04	
23	e	NEZ	02	00	50	
23	e	Z	06	02	50	
23	eP	Z	08	44	49	
23	eP	Z	09	49	07	
23	eP	Z	15	31	55	
23	iP	Z	19	30	15.9	comp. N.E.
	e	Z		30	23	
	e	Z		30	39	
	e	EZ		30	48	
23	e	EZ	21	34	36	

MAWSON					
May 1967					
18	iP	13	00	27.0	
19	iP	05	06	11.4	
19	iP	05	20	16.9	
19	iP	06	51	35.3	
19	iP	12	47	38.5	
19	iP	13	13	43.1	
20	iP	12	10	46.6	
20	iP	14	19	51.0	

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TOOLANGI

May 1967

9	iP	NEZ	21	38	19.7	
	i	NEZ		38	54	
	e	N Z		39	03	
	e	NEZ		39	15	
	e	NEZ		39	36	
	e	Z		40	21	
	eS(KS)	NE		48	17	
	e	NE		49	07	
	e	N		52	50	
9	iP	NEZ	22	27	27.4	
10	eP	NEZ	04	06	18	local
	eS	NEZ		06	34	
10	eP	NEZ	06	05	51	
10	eP	NEZ	13	33	52	
10	iP	NEZ	15	28	12.0	
	e	NEZ		28	21	
	e	NEZ		28	26	
	e(S)	N		32	18	
	e	N		33	42	
10	eP	EZ	17	50	44	
11	eP	NEZ	05	57	25	local
	eS	NEZ		57	49	
11	e(P)	EZ	15	23	49	
	e	Z		24	35	
12	iP	NEZ	02	05	11.7	dil.N. 1.9
	e	NEZ		06	29	
12	eP	NEZ	06	21	27	
12	iP	NEZ	20	52	27.7	
13	eP	NEZ	03	05	39	
13	eP	NEZ	05	34	14	
13	eP	NEZ	07	06	14	
14	iP	NEZ	12	30	21.0	comp. SW. 1.9
	i	NEZ		30	30	
	e	Z		30	35	
	e	N		37.9		
14	eP	EZ	16	00	53	
15	eP	NEZ	00	40	56	
	e	N Z		41	08	
15	eP	NEZ	00	54	10	
15	iP	NEZ	02	34	34.6	
15	eP	NEZ	02	38	44	
15	e(P)	NEZ	06	21	02.5	
15	eP	NEZ	19	00	29	

TOOLANGI (continued)

May 1967

16	e(P)	NEZ	06	07	59	
16	e(P)	NEZ	06	24	27	
	e	N Z		24	46	
16	i(P)	N Z	06	24	45.6	
16	iP	NEZ	07	28	39.3	
16	e(P)	NEZ	07	37	37	
16	iP	NEZ	16	22	15.6	comp.
16	eP	NEZ	19	36	12	

MAWSON

May 1967

11	iP	15	17	48.6	
11	iP	16	42	16.2	
11	iP	17	13	03.1	
11	iP	17	34	09.0	
12	iP	19	11	20.0	
12	iP	19	14	03.3	
13	iP	18	57	13.0	
13	iP	20	37	33.9	
14	iP	11	36	34.5	
14	iP	20	23	12.0	

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TOOLANGI

June 1967

8	eP	NEZ	07	10	14	
8	eP	NEZ	12	10	10	
8	iP	NEZ	13	27	42.2	dil.
	e	N		28	31	
	eS	E		33.1		
8	eP	NEZ	13	59	40	
9	iP	NEZ	05	37	52.6	comp.
9	eP	NEZ	10	22	30	
9	iP	NEZ	11	01	32.3	
9	eP	Z	11	30(14)		
	e	NEZ		30	30	
9	eP	NEZ	12	44	51	
	e	NEZ		44	58	
	e	NEZ		45	03	
	e	NE		47	50	
	e	NEZ		48	27	
	e	N		51.9		
9	eP	NEZ	14	56	22	
	e	N Z		56	28	
	e	N Z		56	32	
9	eP	EZ	17	12	10	
9	eP	NEZ	19	32	07	
10	iP	NEZ	14	05	10.7	dil. 2.0
	e	Z		05	26	
	e(ScP)	Z		10	09	
10	e(P)	Z	14	10	09	
10	eP	NEZ	14	13	39	
11	eP	NEZ	05	46	05	
11	eP	NEZ	15	28	24	
	e	NEZ		28	37	
11	eP	NEZ	20	04	36	
12	eP	EZ	00	56	21	
	e	Z		56	37	
12	eP	NEZ	03	11	34	
	e	NEZ		11	47	
12	eP	NEZ	05	32	58	
	e	NEZ		33	02	
	e	N Z		33	09	
	e	Z		33	16	
	e	Z		33	32	
	eS	NE		42.7		
	e	N		43.7		
	e	NE		53.3		
12	eP	NEZ	07	26	41	
	e(S)	EZ		27	44	
12	eP	NEZ	21	27	18	
	e(S)	NE		34.8		

TOOLANGI (continued)

June 1967

12	eP	NEZ	23	41	34.5	
	e	Z		41	46	
	eS	NE		45	48	
13	e(P)	Z	00	23	08	
13	eP	NEZ	03	17	36	
13	iP	NEZ	15	45	36.9	dil. N.E. 2.5
	e	Z		46	29	
	e	EZ		46	58	
	eS	NE		50	31	
	iScP	NEZ		51	47	
13	eP	NEZ	19	00	09	
14	iP	NEZ	05	14	13.0	comp. S.W. 2.5
	e	Z		14	26	
	e	N		24.8		
	e	NEZ		26.7		
14	eP	Z	06	22	57	

MAWSON

June 1967

7	iP	08	00	56.5	
7	iP	15	44	46.0	
7	iP	18	07	49.0	
7	iP	18	36	15.9	
7	iP	18	48	26.7	
7	iP	20	41	45.5	
7	iP	20	55	56.4	
8	iP	16	55	03.3	
10	iP	05	37	30.5	
10	iP	09	19	45.0	
10	iP	14	10	24.5	
11	iP	20	45	12.7	
11	iP	20	48	27.5	
12	iP	05	26	49.0	
13	iP	15	51	31.9	
13	iP	18	06	58.6	
14	iP	05	19	08.3	

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June 1967

15	e(P)	EZ	09	31	36	
16	eP	NEZ	05	48	14	
	e	Z		48	23	
	e(S)	N		53.1		
16	eP	NEZ	06	07	26	
	e(S)	N		12.3		
16	eP	NEZ	17	30	44	
16	eP	EZ	19	23	24	
16	eP	EZ	20	19	30	
17	iP	NEZ	05	12	27.6	2.6
	i(PcP)	NEZ		12	41	
	e	NEZ		13	12	
	ePP	NEZ		15	46	
	eS	NEZ		22	36	
	ePS(PPS)	N		23.7		
	eLQ	E		34.6		
17	e(P)	EZ	05	41	50	
17	eP	NEZ	07	48	47	
18	iP	NEZ	04	57	45.7	dil.
18	iP	NEZ	07	03	07.3	comp.N.E.
	iS	N Z		03	23.5	Very strong local.
18	eP	NEZ	12	34	35	
18	eP	NEZ	20	11	15	
19	iP	NEZ	01	35	28	
19	e(P)	Z	12	51	57	
19	e(S)	N	17	32	00	
	e	E		33	04	
	e	N		39.6		
	e	N		49.4		
19	e(P)	EZ	18	22	08	
19	eP	NEZ	18	37	52	
19	eP	NEZ	21	46	45	
21	eP	NEZ	03	44	01.5	regional
21	eP	NEZ	07	03	47	
	e	NEZ		04	04	
21	eP	EZ	12	34	43	
	e	Z		34	47	
21	eP(KP)	NEZ	15	50	09	
	e	Z		50	37	
	e	N Z		54.3		
21	eP(KP)	NEZ	15	54	51	
	e	N Z		55	25	
	e	N Z		57	07	
21	eP	NEZ	18	53	29	local
	eS	NEZ		53	35	

TOOLANGI (continued)

June 1967

21	eP	EZ	18	59	40	
21	iP	NEZ	19	16	20.1	dil. 1.7
	e	Z		16	33	
	e(S)	NE		20	58	
21	eP	NEZ	21	24	25	
	e	NEZ		24	27	
	e	N Z		28.6		
21	iP	NEZ	22	12	17.5	dil. N.E. 2.1

MAWSON

June 1967

16	eP	05	15	13	
16	eP	22	48	03	
17	iP	05	07	20.3	
	iPcP		09	30.7	
	iS		12	58.3	
	iPcS		13	02.2	
	iLQ		15	39	
	iLR		17	12	
19	eP	17	27	36	

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TOOLANGI

June 1967

1	eP	Z	02	00	38	
	e	NEZ		00	43	
1	iP	NEZ	06	47	51.6	comp. S.E.
1	e(S)	N	20	59	20	
2	eP	NEZ	06	37	40	
2	eP	Z	06	47	51	
	eS	NEZ		47	53	
2	e	Z	07	35	46	
	e	E		35	52	
2	eP	Z	22	26	31	
	e	NEZ		26	41	
3	eP	Z	00	09	04	
	e	Z		09	08	
3	eP	Z	14	18	39.4	
	e	Z		18	52	
4	eP	Z	03	00	10	
4	eP	Z	05	39	43	
5	eP	Z	01	28	37.5	
	e	N		37	32	
5	eP	NEZ	05	05	57.3	
	e(S)	E		05	59	
5	eP	Z	05	37	29.7	
	e	NEZ		37	40	
5	eP	N Z	07	02	44	
5	iP	Z	11	18	12.3	dil.
	e	Z		19	03	
5	iP	N Z	14	42	05.3	dil. N.
6	e(P)	Z	05	06	49	
	e	NEZ		06	56	
6	e	Z	06	06	29	
6	eP	Z	06	07	53	
	i	N		07	59.3	
	e	N		08	05.1	
6	iP	Z	09	36	52.6	comp.
	i(S)	N		37	00.3	
6	e(P)	Z	11	21	05	
7	e	Z	00	34	07	
	e	Z		34	10	
	e	Z		34	23	
7	e	Z	03	49	01	
7	e	Z	06	50	09	
7	e	Z	17	50	22	
7	iP	NEZ	19	34	45.2	dil. N.E.
	e	N		39	23	
7	e	Z	20	24	24	
7	e	NEZ	20	57	52	
	e	N		58	04	
7	e	Z	21	23	23	

MAWSON

May 1967

31	iP	07 14 16.7
31	iP	14 06 50.4
31	iP	14 51 10.7

June, 1967

1	iP	03 56 02.0
1	iP	16 27 28.6
1	iP	16 54 22.8
1	iP	21 00 17.3
3	iP	00 33 24.4
3	iP	01 50 57.1
3	iP	03 52 57.7
3	iP	22 56 07.5
4	iP	08 23 14.6
4	iP	09 35 33.5
4	iP	09 45 17.5
4	iP	10 11 00.1
4	iP	10 31 52.5
4	iP	11 42 09.3
4	iP	16 08 42.8
5	iP	01 33 30.0
5	iP	22 49 49.1
6	iP	00 26 13.7
6	iP	02 37 13.0
6	iP	06 47 41.7
6	iP	09 43 00.6

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TOOLANGI

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22	eP	NEZ	02	04 35	
22	iP	NEZ	06	52 20.5	dil.
22	eP	EZ	10	57 58	
	e	Z		58 08	
22	eP	NEZ	13	34 07	
22	eP	N Z	19	15 36	
	e	N		17 00	
	eS	N		21 16	
23	iP	NEZ	00	33 29.6	dil.
23	iP	EZ	00	50 15	
23	iP	NEZ	05	11 47.2	dil.N.W. 2.5
	eS	NE		17 09	
	e	NE		19 37	
	e	NE		23 18	
23	eP	NEZ	11	53(03)	
	e	Z		53 14	
	e	E		57 29	
	e	N		57 38	
	e	NE		58 44	
23	iP	NEZ	14	44 35.6	dil.N.E. 2.2
23	eP	Z	21	35(50)	
	e	NEZ		35 59	
	e(S)	N		40 34	
	e	NE		40 45	
	e	N		41.9	
24	eP	NEZ	06	38(51)	regional
24	iP	NEZ	13	34 36.3	dil. 1.8
24	iP	NEZ	21	09 19.0	dil.
	e	Z		09 26	
	e	NEZ		09 31	
	e(P)	NEZ		12 44	
	eS	N		16 41	
	e	N		20.1	
	e	N		24.7	
	e	N Z		28.5	
24	iP	NEZ	21	12 43.6	dil.
25	eP	N Z	11	32 43	
25	eP	NEZ	11	37 44	
25	eP	NEZ	13	35 07	
25	iP	NEZ	19	53 59.5	
25	iP	NEZ	23	26 55.3	
	e	NEZ		27 05	
	e	N Z		29 24	
	eS	N		34.1	
	e	N		37.9	
	e	N		46 09	
26	eP	NEZ	02	59 16	
26	iP	NEZ	09	16 13	

TOOLANGI (continued)

June 1967

26	eP	NEZ	14	10 46	
26	eP	EZ	20	55 19	
26	eP	NEZ	23	03 35	
27	eP	NEZ	02	16 34	local
27	eP	NEZ	15	02 25	
27	eP	EZ	17	52 30	
27	eP	EZ	19	50 11	
27	eP	NEZ	21	45(00)	
	e(S)	N		53 26	
	e	N Z		55.5	
27	eP	NEZ	23	17 23	
28	eP	NEZ	00	20 44	
	e	NEZ		20 56	
	e	N Z		22 27	
	eS	N		25 47	
	e	N		28.3	
28	eP	NEZ	03	11 16	local
28	eP	EZ	05	36 55	
28	eP	NEZ	05	41 59	
	e	Z		42 12	
	e	N		52.7	
28	iP	NEZ	14	38 08.0	
	e	NEZ		38 09	
	e	N Z		38 21	
	eS	NEZ		41 38	
	e	N Z		42 40	
	T max.	NEZ		54.5	

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June 1967

21	iP	15	39 15.0
21	iP	17	14 03.8
21	iP	20	21 43.8
23	iP	08	13 04.8
27	eP	21	43 31

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June 1967

28	iP	NEZ	23	17	23.9	comp.
29	iP	NEZ	16	42	49.8	comp.S.E. 2.0
	epP	Z		43	27	
	eS	N		48	10	
	e	N		49	34	
	e	N		52	50	
	e	N		54	26	
	e	N Z		57	03	
30	eP	NEZ	19	26	38	

July 1967

1	eP	NEZ	06	47	57	
	eS	NEZ		48	42	
1	eP	NEZ	07	38	44	
	e	Z		38	48	
1	e(S)	N	23	34	55	
	e	N			43.2	
	e	N			46.8	
	e	N Z			57.5	
2	eP	N Z	07	14	39	
	e	NEZ		14	48	
	e	EZ		15	19	
	e	Z		17	04	
	e(S)	N			23.5	
	e	N			31.0	
	e	N			33.4	
2	eP	NEZ	20	45	30	
3	eP	NEZ	03	51	09	
3	iP	NEZ	11	09	33.0	dil.
4	iP	NEZ	03	23	43.7	dil.
	e	Z		23	47	
4	iP	NEZ	23	54	08.7	dil. 2.0
	e	NE		54	24	
	e	N		56	51	
5	eP	NEZ	21	18	40	

MAWSON

June 1967

29	iP	16 47 41.0

July 1967

1	eP	23 30 10
2	iP	06 59 11.7
2	iP	07 15 57.7
4	iP	14 27 58.5

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July 1967

6	eP	NEZ	00	22	50	
	e	NEZ		22	55	
6	eP	NEZ	04	27	27	
6	eP	Z	18	51	58	
	e	NEZ		52	02	
6	eP	N Z	19	39	44	
	e	N Z		39	46	
	e	Z		39	50	
6	eP	EZ	20	29	05	
6	eP	N Z	23	26	00	
7	iP	NEZ	09	48	28.0	comp.
7	eP	NEZ	13	37	12	
	e	Z		37	55	
7	eP	NEZ	14	54	03	
7	eP	NEZ	19	31	31	
8	iP	NEZ	01	04	47.5	comp.
	iPcP	Z		07	50	
	iS	NEZ		09	33	
	eSS	N		11	23	
	eLR	N		12	05	
8	eP	NEZ	06	28	50	
	e	NEZ		28	57	
	eS	N		33	33	
	eSS	N		35	05	
8	eP	NEZ	13	19	49	
9	eP	NEZ	04	23	54	
9	eP	NEZ	07	40	20	
10	eP	NEZ	05	42	12	
10	iP	NEZ	06	35	56.2	dil. 2.1
	e	Z		36	29	
	iS	NE		41	02	
10	eP	NEZ	10	22	23	
10	eP	NEZ	11	03	36	
	e	Z		03	44	
	e(S)	N		09	28	
10	iP	NEZ	12	08	42.4	dil. 2.2
	i	Z		10	19	
	i	EZ		10	34	
	eS	NE		14	30	
	e	N		17	32	
	e	N		22	42	
10	eP	NEZ	19	26	24	
	e	Z		28	12	
	e	N Z		28	21	
	eS	NE		33	07	
	e	NE		36	25	
	e	N		41.3		

TOOLANGI (continued)

July 1967

11	eP	NEZ	00	15	37	
11	eP	NEZ	04	23	33	
11	iP	NEZ	17	37	56.0	

MAWSON

July 1967

6	iP	14	02	16.2	
7	iP	01	10	59.4	
10	iP	12	11	45.8	
10	iP	19	30	37.5	
11	iP	04	29	27.2	

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July 1967

12	iP	NEZ	04	36	20.0 dil. 1.9
12	eP	EZ	11	11	33
12	iP	NEZ	14	14	16 strong local
	eS	N		14	33
	e	NEZ		14	35
12	eP	NEZ	21	21	52
	e	Z		22	00
	e	Z		22	13
	e(S)	N		30	33
	e	Z		32	27
13	eP	Z	02	30	18
13	eP	NEZ	07	43	11
	e(S)	N		51	43
	e	N Z			54.2
13	eP	Z	10	10	(02)
	i	NEZ		10	08
	e	Z		10	12
	e	N Z		11	26
	eS	N		14	37
	e	Z			17.4
14	iP	NEZ	02	54	13.5 comp. 2.1
	e	NEZ		54	32
	e	NEZ		54	39
	e	N	03	01	.4
14	eP	NEZ	07	06	52.5 local
	eS	NEZ		07	08
14	eP	NEZ	09	13	12
	e	EZ		14	30
14	eP	NEZ	22	43	42
15	iP	NEZ	14	49	10.4 comp.
15	iP	NEZ	17	10	10.8
	e	NEZ		10	27
15	e(P)	NEZ	17	10	27
16	eP	NEZ	13	41	50
	eS	NE		47	46
	eSS	NE		50	31
	e	NE		55	44
16	eP	NEZ	21	19	04
17	eP	NEZ	01	13	53
18	NIL				

MAWSON

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12	eP	21	27	23	
13	iP	10	15	10.1	
14	iP	03	00	28.6	
15	iP	08	34	33.3	

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TOOLANGI

July 1967

19	eP	NEZ	12	47	46	
	e	Z		48	03	
19	eP	NEZ	22	30	29	
20	iP	NEZ	09	08	53.0	
20	eP	NEZ	11	46	56	
	e	N Z		48	12	
	e	Z		48	29	
	eScP	Z		53	35	
20	e(P)	Z	11	53	35	
20	iP	NEZ	15	44	47.0	2.1
	i	NEZ		44	50	
	e	NEZ		44	58	
	e	N Z		46	45	
	eS	NEZ		51	33	
	eSS	NE		54	46	
	e	E	16	01	17	
	e	N Z		02.5		
	e	N Z		04.8		
20	iP	NEZ	23	18	18.4 dil. E.	2.2
	iScP	EZ		23	45	
20	i(P)	EZ	23	23	45	
21	eP	NEZ	02	26	42	
22	iP	NEZ	01	40	19.3	
	e	NEZ		40	29	
22	eP	NEZ	04	04	03	
	ePPP	NEZ		05	07	
	ePcP	Z		07	08	
	e(S)	N		08	48	
	e	N		09	00	
	eSSS	N		10	32	
	eScP	Z		10	50	
	eLR	N		11	23	
	e	N		13	02	
	e	N		15.0		
22	iP	NEZ	05	34	59	
	e	NEZ		35	16	
22	eP	EZ	06	46	56	
22	eP	NEZ	08	01	57.5	
22	eP	NEZ	11	15	47	
	e	NEZ		16	59	
22	ePKP	NEZ	17	16	07	
	e	EZ		16	19	
	ePP	Z		18	23	
	ePKS	NE		19	34	
	eSP	Z		28	37	
	eSS	N		35	46	
	eLR	Z		58.8		
23	eP	NEZ	03	14	43	
	e	Z		14	52	
	eS	N		19	33	
	e	N		21.1		

TOOLANGI (continued)

July 1967

23	eP	NEZ	04	35	02	Local
	eS	NEZ		35	18	
23	eP	NEZ	13	52	42	
	e	NEZ		52	49	
	e(S)	N		[illegible]		56 45
	e	N		[illegible]		57.5
	T max.	NEZ	14	14.0		
23	eP	NEZ	18	51	26	
24	iP	NEZ	07	46	20.0 dil.NW.	2.5
	e	Z		46	35	
	e	Z		47	04	
	e	EZ		47	47	
	i	Z		48	39	
	e(ScP)	Z		52	06	
25	eP	NEZ	10	51	45	

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21	iP	02	22	24.9	felt
23	iP	13	48	31.7	dil.

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16	eP	13	01	51
16	eP	13	12	04
17	iP	16	52	09.7
18	eP	16	49	15
18	eP	17	37	00
18	eP	20	23	05
19	iP	16	18	18.0
19	iP	16	47	51.7
20	iP	11	52	56.3
20	iP	13	23	16.5
20	iP	14	45	38.5
20	eP	15	49	22
20	iP	15	52	30.3
20	eP	18	31	27
22	eP	03	18	38
22	eP	04	09	08
22	iP	05	41	05.9
22	eP	11	15	32
23	eP	13	41	51
23	eP	13	54	57
24	iP	06	22	09.5
24	iP	07	50	28.0

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July 1967

25	eP	NEZ	10	51	45	
26	eP	NEZ	03	19	08	
	e	NEZ		20	11	
26	eP	NEZ	05	52	50	
26	eP	NEZ	06	37	19	
26	eP	NEZ	08	20	31	
	e	NEZ		20	56	
	eS	NE		25	26	
	e	N		26	42	
	e	N Z			27.6	
	e	N			29.6	
26	eP	NEZ	19	00	03	
	e	EZ		00	17	
27	eP	NEZ	00	15	02.5	
	e	Z		15	51	
28	eP	NEZ	09	52	28	
	e(S)	N			56.7	
28	iP	NEZ	14	32	01.9	dil.N.E. 1.9
28	eP	NEZ	17	37	35	
28	eP	NEZ	18	39	32	
28	iP	NEZ	20	14	15.1	
28	iP	NEZ	23	45	22.3	comp.
29	iP	NEZ	05	25	59.2	dil.
29	ePKP	Z	10	43	16	
	iPKP	NEZ		43	26	
	epPKP	Z		44	09	
	e	Z		44	23	
	eSKP	NEZ		46	31	
	e	EZ		46	39	
	epPKS	NE		47	35	
	esPKS	Z		47	55	
	eSKSP	EZ		55	44	
	eSS	NE	11	03	29	
	eSSS	N		08	33	
	eLQ	N			19.0	
	eLR	Z			28.0	
29	eP	NEZ	18	09	47	local
	eS	NEZ		10	03	
29	eP	EZ	22	11	38	
30	eP	NEZ	00	19	35	
	e	Z		19	49	
	e	Z		19	54	
30	eP	NEZ	03	47	13	
30	iP	NEZ	10	53	49.5	
	eS	NE		57	23	
	eLR	N Z		58	37	
30	eP	NEZ	11	32	26	
30	eP	NEZ	11	35	45	

TOOLANGI (continued)

July 1967

30	eP	NEZ	13	41	47	
	e	NEZ		41	55	
	e	Z		42	02	
	eS	N		47	06	
	eLR	N			50.9	
	e	N			53.4	
30	eP	NEZ	15	27	32	
30	iP !	NEZ	17	31	07.0	Dil. N.E. 3.0
30	eP	NEZ	20	33	12	
30	eP	Z	20	47	17	
30	eP	NEZ	22	34	12	
31	eP	NEZ	04	25	49	Local
	eS	NEZ		26	00	
31	eP	NEZ	22	53	48	
	e	Z		53	57	
	e	NEZ		54	14	
	e(S)	N			58.4	
	e	N Z		59	47	
31	iP	NEZ	23	52	56.5	

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1	eP	NEZ	03	37	11	
1	eP	NEZ	09	11	02	
	e	N		15	32	
	e(S)	N		15	49	
	e	N		16	20	
	e	Z		17	.2	
	e	N		20	.0	

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26	iP		06	42 25.5
27	iP		00	21 08.8
28	iP		20	17 54.3
29	eP		10	42 38
29	eP		10	53 33
30	eP		00	18 50
30	eP		08	26 39
30	iP		08	28 30.7
30	eP		10	56 54
30	iP		13	14 48.2
30	iP		17	36 14.2
30	iP	2.4	22	29 06.5
31	eP		22	56 05

August 1967

1	eP		01	26 59
1	iP		08	54 02.7
1	eP		09	13 15

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2	eP	NEZ	06 44 56	
2	iP	NEZ	09 43 34.0	dil.
2	eP	NEZ	14 25 53	
2	eP	NEZ	18 26 25	
3	eP	EZ	00 15 33	
3	iP	NEZ	02 00 26.8	
	i	Z	06 28	
3	eP	NEZ	09 03 23	
3	eP	NEZ	20 35 44	
4	eP	NEZ	04 06 02	
4	iP	NEZ	04 10 57.6	
4	eP	NEZ	06 21 06	
	e	N Z	21 10	
4	eP	NEZ	20 03 36	
5	e(P)	NEZ	00 44 53	
6	iP	NEZ	00 45 12	
6	eP	NEZ	04 52 42	
7	eP	NEZ	17 13 33	
	e	Z	13 56	
8	eP	NEZ	07 06 27	local
	eS	NEZ	06 43	
8	iP	NEZ	07 20 17.2	comp. 1.9
	i	Z	20 26.5	

MACQUARIE ISLAND

July 1967

31	iP	23 19 48.8

August 1967

1	iP	09 07 02.3

MAWSON

August 1967

2	eP	14 25 57
2	iP	16 06 09.4
2	iP	17 24 08.0
2	iP	17 35 04.4
2	iP	17 46 06.8
3	iP	15 21 21.3
3	iP	16 15 26.0
4	iP	15 34 18.2
4	iP	17 41 50.0
4	iP	17 45 43.3
4	eP	18 24 43
5	eP	04 56 02
5	iP	08 49 32.8

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August 1967

9	iP		NEZ	05	02	30.5	dil.	
9	iP		NEZ	08	26	39.3	dil. NW.	2.4
	i		N Z		27	38		
	i		N Z		27	47		
	eS		N		31	55		
	e		NEZ		33	35		
	eScS		N		36	34		
	e		N Z		38	08		
	e		N		40.8			
10	iP		NEZ	21	52	16.2		
	e		N Z		53	50		
11	eP		NEZ	07	26	03	blast in Northcote	
11	eP		NEZ	19	04	17		
12	iP		NEZ	09	46	18.0	comp. W.	2.6
	i		Z		46	54		
	e		NEZ		47	07		
	e		NEZ		48	24		
	eS		N		51	32		
	e		Z		52	26		
	e		NE		52	30		
	eLR		Z		54	26		
	e		N Z		55.3			
	e		N		56.3			
12	eP		NEZ	12	36	59		
	e		NEZ		37	05		
	e		Z		37	43		
	eS		NE		42	02		
	ePcS		N		43	22		
	eLR		N		45	34		
13	eP		EZ	16	44(50)			
13	eP		N Z	17	01(26)			
	eS		NE		06	52		
	eSSS		E		09.2			
	eLR		NE		10	22		
	eM		NEZ		14.5			
	e		N Z		16.3			
13	iP!		NEZ	20	17	45.0	dil.NW.	2.7
	epP		EZ		19	06		
	eX		Z		19	13		
	esP		Z		19	45		
	e(PP)		Z		20	33		
	eS		N		26	44		
	esP		E		27	24		
	ePS		N		28	12		
	e		E		29	10		
	eSSS		N		34.9			
13	eP		NEZ	22	21	49		
	e		Z		22	26		
	ePP		N		23	14		
	eS		NE		27	14		
	eSS		E		29	38		
	eScS		Z		31.9			
	eM		N Z		35.0			

TOOLANGI (continued)

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14	eP		EZ	02	39	29
	e		EZ		39	42
14	iP		NEZ	06	52	08.5
14	eP		NEZ	08	15	23
14	eP		EZ	21	16	32
15	eP		EZ	03	43(27)	
	e		Z		43	43
15	eP		NEZ	08	49	36
	e		Z		49	52
15	eP		NEZ	09	33	30
	e		Z		33	35
	e		Z		33	54
15	eP		EZ	13	56	32
15	eP		EZ	15	48	29

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9	iP		08	31	40.3
9	eP		22	54	19
9	eP		23	29	17
10	iP		18	32	38.3
10	iP		21	56	50.7
12	iP		09	51	28.1
12	eP		12	43	13
13	iP		16	38	12.2
13	iP		18	27	35.0
13	iP		20	24	52.0
13	eP		22	27	48
13	eP		23	56	10

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PRELIMINARY EARTHQUAKE PHASES AT: TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

August 1967

16	eP	NEZ	00	34	34	
16	iP	NEZ	17	55	25.4	comp. 1.7
	e	N Z		58	45	
16	iP	NEZ	19	28	47.2	comp. 2.0
	i	N Z		29	06	
	e	EZ		29	12	
	e	EZ		30	59	
	e(S)	NE		36	.6	
	e	N		45	.2	
17	eP	NEZ	02	15	52	
17	eP	NEZ	15	22	54	regional
	eS	NEZ		23	13	
17	iP	NEZ	16	29	50.5	comp. S.W.very
	iS	NEZ		30	09.5	strong regional, felt in Beechworth.
17	eP	NEZ	16	43	30	regional
	eS	NEZ		43	49	
17	iP	NEZ	16	49	23.7	strong
	iS	NEZ		49	42.7	regional
17	eP	NEZ	18	05	39	regional
	eS	NEZ		05	58	
18	e(P)	NEZ	03	46	24	
18	eP	NEZ	09	44	58	
18	eP	NEZ	19	05	15	regional
	e	E		06	29	
	e	N		06	57	
18	eP	NEZ	22	05	03	
19	iP	NEZ	00	47	45	strong
	iS	NEZ		48	04	regional
19	eP	EZ	08	28	11	
19	eP	Z	12	26	19	
19	eP	NEZ	13	11	26	
19	iP	NEZ	15	37	07.3	comp. S. 1.9
	eS	NEZ		44	21	
19	iP	NEZ	15	48	08.6	comp. S.W. 2.4
19	iP	NEZ	18	45	40.7	
21	iP	NEZ	07	43	18.4	
	i	NEZ		43	33	
	eS	NE		51	41	
	eScS	N		53	23	
	eSS	NE		55	36	
	e	NE		58	28	
	e	NE	08	00	17	
	e	NE		05	44	
21	eP	NEZ	21	44	08	

TOOLANGI (continued)

August, 1967

22	eP	NEZ	05	11(42)		regional
	e(S)	NEZ		12	21	
22	iP	NEZ	13	14	22.3	comp.
	iPcP	NEZ		14	35	
	ePP	NEZ		17	36	
	eS(KS)	E		24	34	
	eSS	E		30	.0	
	eSSS	E		33	.3	
	eLQ	E		34	55	
	eL	N Z		41	.2	
22	iP	NEZ	13	20	55.3	
22	eP	NEZ	13	29	19	
22	eP	EZ	19	06	42	
22	iP	NEZ	19	45	49.5	

MAWSON

August 1967

16	iP	17	50	39.8	
16	iP	19	30	25.8	
16	iP	19	34	47.0	
17	iP	23	32	20.9	
19	iP	08	33	20.7	
19	iP	15	41	03.0	
19	iP	15	54	16.0	
20	iP	15	15	44.3	
21	eP	07	44	39	
21	iP	19	04	09.0	

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TOOLANGI

August 1967

22/23 no record from 22 30 hrs. on 22nd to 05 09 hrs. on 23rd. Adjusting optical systems.

23	eP	NEZ	08	37	14	
23	eP	NEZ	17	14	29	
24	eP	NEZ	02	02	17	local
24	e(P)	NEZ	03	33	49	
24	eP	NEZ	05	36	04	
24	e	NEZ	10	28	56	
	e	Z		39	02	
	e	Z		39	11	
	eS	NE		44	01	
	eLQ	NE		45	40	
	eLR	N		47	34	
	e	EZ		47	43	
24	iP	NEZ	13	40	32.6	dil.
	e	Z		41	43	
24	iP	NEZ	14	26	00.6	dil.
24	iP	NEZ	17	23	18.3	comp. S.
25	iP	NEZ	23	03	10.0	dil.
25	iP	NEZ	23	07	40.0	dil.
26	iP	NEZ	00	45	34.2	dil. N. 3.0
	i	N Z		45	40	
	e	NEZ		45	47	
	eS	NEZ		52	41	
	eSS	NE		56	11	
	eLQ	N		57	6	
	eLR	N Z	01	00	0	
	eM	E		04	9	
	e	N Z		06	9	
26	eP	NEZ	00	58	52	
26	eP	NEZ	01	02	12	
	e	NEZ		02	22	
26	eP	NEZ	02	16	01	
	e	N Z		16	11	
	e(S)	N		23	3	
26	eP	NEZ	02	32	04	
26	eP	NEZ	03	38	50	
	e	Z		39	00	
26	eP	NEZ	03	51	35	
26	iP	NEZ	05	34	08.5	dil.
26	iP	NEZ	05	55	41.5	
	i	Z		55	50	
26	iP	NEZ	08	03	50.6	comp.
26	eP	NEZ	10	34	05	
26	eP	NEZ	11	18	40	
26	iP	NEZ	11	20	14.3	dil.
26	eP	NEZ	12	09	10	

TOOLANGI (continued)

August 1967

26	eP	NEZ	12	33	14	
26	eP	EZ	18	27	56	
	e	NEZ		40	4	
27	iP	NEZ	02	03	35.3	
27	iP	NEZ	13	27	40.8	comp. 1.9
27	iP	NEZ	14	24	43.0	comp.
	e	N Z		26	19	
	e	EZ		26	40	
27	e(P)	N Z	14	26	19	
27	iP	NEZ	22	16	27.0	
28	Nil.					
29	eP	NEZ	05	19	16	local
	eS	NEZ		19	32	
29	eP	NEZ	05	43	23	local
29	eP	NEZ	07	34	41	
	e	N Z		34	49.5	
	e(PPP)	N Z		36	22	
	eS	NE		40	20	
	e	NE		40	33	
	e(LR)	N Z		44	5	
	e	N		48	3	
	e	NE		49	40	
	e	NE		51	7	
29	eP	NEZ	10	56	55	
	e	Z		57	07	
	e	E	11	05	0	
	e	N		09	8	
	e	N Z		11	48	

MAWSON

August 1967

23	eP	14	19	59	
23	iP	14	23	35	1
24	iP	01	30	48	7
24	eP	02	43	00	
24	iP	10	45	09	9
24	eP	18	43	35	
26	eP	18	32	50	
27	iP	02	06	01	3
27	eP	18	32	48	
27	iP	02	05	59	7
27	iP	14	29	04	7
28	iP	14	29	02	9
28	eP	05	14	10	
28	eP	05	44	52	
28	eP	09	51	44	
29	eP	07	39	01	
29	eP	11	02	00	
29	eP	21	45	29	

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TOOLANGI

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30	iP	NEZ	04	34	18.4	
	i	Z		34	22	
	e	NEZ		34	58	
	ePP	Z		37	21	
	eS	NE		44	25	
	eSS	NE		49	46	
	eSSS	N		53	15	
	eLQ	E		55.7		
	eLR	N Z		59.7		
	eM	E	05	07.6		
30	eP	NEZ	11	21	02	
30	eP	NEZ	11	50	27	
30	eP	NEZ	12	01	50	
	i	N Z		01	53	
	e	Z		04	44	
	e	N		09	27	
30	e(P)	Z	12	04	44	
30	eP	Z	13	46	05	
	eS	E		56	10	
	eLQ	E	14	07.6		
30	iP	NEZ	16	14	48	
31	iP	NEZ	10	20	00.7	
31	iP	NEZ	19	00	33.5	dil.NE. 2.0
	i	Z		01	32	
	iS	NE		06	16	

September 1967

1	e(P)	NEZ	01	54	40	
1	iP	NEZ	03	37	20.8	
	e	Z		38	26	
	e	Z		38	35	
	ePcP	Z		40	07	
	eS	NE		42	20	
	ePcS	N		43	32	
	e	E		46	20	
	eScS	N		47	14	
2	eP	EZ	01	30	13	
3	eP	NEZ	01	29	15	
	e	NEZ		29	45	
3	iP	NEZ	06	29	08.8	
3	ePKP	Z	21	26	13	
	ePP	NEZ		27	22	
	eSKS	NE		33	12	
	eSKKS	NE		34	16	
	eSP	Z		36	44	
	eSKSP	NEZ		37	03	
	eSS	NE		43	10	
	eSSS	E		47.5		
	eLR	NEZ	22	01	24	
3	e(P)	Z	21	36	44	

TOOLANGI (continued)

September 1967

4	iP	NEZ	01	48	37.8	
4	iP	NEZ	03	57	44.0	2.3
	ePP	NE		58	47	
	iPcP	NEZ	04	00	42	
	eS	E		02	21	
	iScP	NEZ		03	58	
	ePcS	NEZ		04	18	
	i(SS)	NEZ		04	39	
4	eP	Z	18	07	48	
	e	NEZ		07	52	
5	eP	N Z	03	46	31	
	e	Z		46	45	
	e	Z		47	04	
	e	E		59.3		
5	iP	NEZ	06	17	36	

MAWSON

August 1967

30	iP	12	06	57.4	
30	iP	15	28	11.8	
30	iP	17	00	01.8	
30	eP	18	13	48	
31	iP	19	05	35.9	

September 1967

1	iP	03	45	15.8	
*3	eP	01	35	18	
3	eP	21	21	01	
4	iP	04	02	51.8	
4	iP	13	12	44.1	
*3	iP	09	17	45.5	

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TOOLANGI - September 1967

6	iP	NEZ	04	51	29.5	
	e	Z		52	08	
	e	Z		52	38	
	e	NE		58	22	
6	iP	NEZ	07	41	28.7	
	e	NEZ		41	43	
	e	Z		44	14	
6	eP	NEZ	19	50	36	
7	iP	NEZ	07	20	24.3	dil. NW. 2.2
	ePP	NEZ		22	12	
	ePPP	N		23	04	
	e	N		23	30	
	e	NE		26	35	
	iS	NEZ		26	40	
	e	N		28	21	
	e	NE		28	30	
	eScS	N		29	55	
	eSS	E		30	04	
	e	NE		31	44	
7	eP	NEZ	08	05	41	
	e	Z		05	51	
7	eP	NEZ	09	40	31	
	e	EZ		40	41	
	e	EZ		43	24	
7	iP	NEZ	11	13	38	
	e	Z		14	15	
	e(S)	NE		17	57	
	e	EZ		19	31	
	e	NE		20	26	
	e	N		20	40	
7	e(P)	EZ	11	19	30	
7	eP	NEZ	15	31	15	
8	iP	NEZ	03	42	47.8	comp.
8	e(P)	NEZ	06	03	45	
8	eP	NEZ	14	08	00	
8	eP	NEZ	22	10	35	
	e	Z		10	44	
8	iP	NEZ	22	46	31.6	
	i	NEZ		46	32.6	
	i	NEZ		46	40.6	
	eS	NEZ		53	42	
	ePS	N		53	50	
	eSS	N		57	13	
	e	N Z		57	30	
	e	N		59	38	
	eLR	E	23	01.2		
9	eP	NEZ	06	23	55	
	e	NEZ		24	03	
9	eP	NEZ	06	42	29	
9	iP	NEZ	08	47	01.0	comp. 1.9
	e	Z		47	13	
	e	Z		48	54	
9	eP	EZ	10	05	30	
9	e(P)	Z	10	20	19	
9	eP(KP)	Z	10	24	12	
	e	NEZ		24	31	
	e	Z		24	55	
	eS(KS)	NE		29	57	
	e	E		31.0		
	e	E		31	36	
	e	EZ		33	26	
	e	NEZ		35	16	
	e	NEZ		35	32	
	e	NE		37	02	

TOOLANGI - September 1967 (continued)

9	e(P)	NEZ	10	35	16	
9	iP	NEZ	14	52	49.6	comp.
	e	N Z		52	57	
	eS	NE	15	00	03	
	e	N		03	26	
	e	N Z		03	53	
	e	N		07.7		
9	eP	NEZ	17	01	24	
	e	NEZ		01	36	
	eS	NEZ		09	05	
	e	NE		14.6		
	e	NEZ		16.6		
	e	EZ		18	10	
9	eP	NEZ	19	13	16	
9	e(P)	Z	21	52(19)		
	e(S)	NE		56.7		
	e	NE		57.8		
10	eP	NEZ	08	11	15	
10	eP	NEZ	16	53	38	
11	eP	EZ	01	28	45	
	e	Z		28	55	
	eS	NE		33	46	
	eSSS	N		35.9		
	eLR	N		36	39	
11	eP	NEZ	04	42	58	
	e	N Z		43	04	
	e	NEZ		43	08	
	eS	NE		47	30	
	eSSS	NE		49.2		
	eLR	NEZ		50.2		
11	eP	NEZ	06	58	17	
	e	Z		58	27	
	e	EZ		58	31	
	eS	NE	07	03	16	
	eLQ	NE		04.6		
	eSS	N		04	48	
	eSSS	N		05	16	
11	eP	NEZ	07	03	22	local
11	eP	NEZ	10	20	33	
	e	Z		20	45	
	e	NE		26.9		
	e	N		27.6		
12	eP	NEZ	02	47	45	
12	eP	NEZ	12	42	50	
	e	Z		42	59	
	e	Z		43	07	

MAWSON - September 1967

6	iP	07	42	44.6	
7	iP	11	18	45.0	
7	iP	14	04	50.6	
8	iP	03	47	43.7	
8	iP	08	18	24.4	
8	iP	09	12	22.1	
9	iP	10	17	38.4	
9	eP	17	01	45	
12	iP	11	23	38.5	
12	eP	22	02	27	

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TOOLANGI

September 1967

12	eP	NEZ	21	56	18		
	e	Z		59	22		
	eS	NE	22	01	22		
	eSSS	E		03.7			
	e	NEZ		05	21		
	e	N Z		08.1			
12	e(P)	Z	21	59	22		
13	eP	EZ	00	11	33		
	e	NEZ		11	42		
13	e(P)	NEZ	00	20	40		
13	eP	NEZ	00	44	54		
	e	N Z		45	04		
13	eP	NEZ	02	27	14		
13	iP	NEZ	20	10	14.9	comp.	1.9
	e	E		10	27		
	e	N Z		10	33		
	e	N Z		13	37		
14	eP	NEZ	15	41	10		
	e	Z		41	35		
	e	N		48	21		
14	iP	NEZ	19	23	31.6		
	e	NEZ		23	50		
15	eP	NEZ	00	36	35		
15	eP	EZ	00	40	05		
	e	NEZ		40	11		
	e	E		57.3			
15	eP	NEZ	10	45	07		
15	eP	NEZ	17	48	04		
15	eP	NEZ	19	23	40		
16	eP	NEZ	00	08	10		
16	eP	NEZ	03	48	16		
	i	NEZ		48	23		
	e	N Z		48	25.5		
	ePP	N Z		49	47		
	eS	E		54	20		
	eSS	E		57.0			
16	eP	NEZ	06	37	03	local	
	eS	NEZ		37	21		
16	iP	NEZ	13	04	30.7		
16	eP	NEZ	15	17	13		
16	eP	NEZ	19	18	29		
	e	N Z		18	43		
	e	EZ		18	50		
	e	NE		26.2			
17	eP	NEZ	01	29	02		
17	eP	NEZ	06	01	55		
17	eP	NEZ	06	26	30		

TOOLANGI (continued)

September 1967

17	eP	NEZ	08	15	18		
17	eP	NEZ	09	06	01		
	e	NEZ		06	13		
18	iP	NEZ	15	20	12.6	dil.	N.
	e	Z		27	52		
	e	NE		31	37		
18	iP	NEZ	15	39	26.0	comp.	
	i	N Z		39	36		
	i(PPP)	N Z		40	50		
	iS	NE		44	34		
	i	Z		46	25		
	e(SS)	N Z		46	38		
	e(SSS)	E		47.1			
	eLQ	NE		48.1			
	M	N Z		51.9			
18	i(P)	Z	15	46	25		
18	iP	NEZ	19	20	04.2	dil.	
19	iP	NEZ	00	52	04.2		
	e	EZ		52	40		
19	iP	NEZ	06	15	18.6	very	strong
	e(S)	NEZ		15	34	local	
19	iP	NEZ	11	08	12.2	dil.	
	eSKS	N		18	46		
	ePS	N Z		19	36		
	eSS	N		23	44		
	eLR	N Z		33.5			
19	eP	NEZ	12	58	05		
	e	EZ		58	23		
	e	Z		01	21		
19	eP	NEZ	16	16	41	strong	local
	e(S)	E		16	56		
19	eP	Z	18	25	47		
19	eP	NEZ	19	11	11		
	e	Z		11	15		

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13	iP	19	00	45.9	
13	iP	20	04	11.5	
	iS		10	48.8	
16	eP	03	51	59	
16	iP	08	51	36.4	
16	eP	19	24	40	
18	iP	15	45	25.4	
	eS		55	35	

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TOOLANGI

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25	eP	NEZ	22	55	44	
	e	NEZ		55	54	
26	iP	NEZ	17	12	12.7	
	e	Z		12	28	
	e	Z		12	44	
	ePcP	EZ		15	02	
	eS	NE		17	18	
	eLR	NE		20.3		
	e	NE		22	20	
	e	N		24.1		
27	iP	NEZ	02	19	44.4	
27	iP	NEZ	09	33	58.5	
	e	Z		34	23	
	e	Z		36	45	
28	iP	NEZ	00	34	07.3	dil. 1.7
	e	N Z		34	16	
	e	EZ		34	21	
28	iP	NEZ	03	07	44.8	
	e	NEZ		07	57	
28	iP	NEZ	05	03	17.6	
	e	NEZ		03	22	
	e	Z		03	32	
	e	Z		03	42	
	ePP	NE		04	20	
	ePcP	Z		06	13	
	eS	N		08	24	
	eLQ	E		10.4		
	eSSS	E		10.9		
	eLR	NEZ		12	17	
	eM	NEZ		16.5		
28	iP	NEZ	14	10	09.4	
	e	NEZ		10	40	
29	e(P)	NEZ	02	08	41	
29	eP	NEZ	07	27	02	
29	iP	NEZ	22	25	21.5	dil NW. 2.0
	eS	E		29	27	
	eLQ	N		29	41	
	eSSS	E		30	28	
	T max	NEZ		42.6		
30	eP	EZ	08	08(18)		
	e	N Z		08	21	
	e	Z		08	30	
	eS	N		17.3		
	eScS	N		18.2		
30	eP	NEZ	13	11	28	
30	eP	NEZ	14	09	48	
30	eP	NEZ	21	38	05	
	e	NEZ		38	12	
	e	EZ		38	18	
	e	N Z		38	25	
	e(SKS)	N		48	50	
	e(PSP)	Z		50	39	

TOOLANGI (continued)

October 1967

1	eP	NEZ	02	42	25	
1	iP	NEZ	12	03	47.2	
	e	NEZ		04	15	
2	iP	NEZ	00	18	57.8	comp. 2.0
	e	NEZ		19	13	
	e	EZ		20	46	
	e(S)	NE		23	50	
	e	NE		27	09	
	e	N		28	09	
2	eP	NEZ	15	00	31	
	e(S)	N		05	38	
	eLR	NEZ		09.5		
	e	N Z		12.2		
2	eP	NEZ	15	21	05	
2	eP	EZ	17	32	51	
	e	EZ		33	15	
3	iP	NEZ	05	01	53.5	
	e	N Z		01	59	
	e	Z		02	15	
3	eP	NEZ	14	52	46	
3	e(P)	Z	18	27	37	
3	ePKP	NEZ	18	35	08	
	e	EZ		35	27	
	eSKKS	E		44	12	
	ePS	E		47.3		
	eSS	NEZ		54	16	
	eLQ	NEZ	19	15.3		
	eM	EZ		32.2		
3	eP	NEZ	19	16	23	

MAWSON

September 1967

28	iP		05	09	25.0	
	eS			19	47	

October 1967

1	iP		12	08	43.8	
1	iP		12	48	12.4	
2	iP		00	24	06.7	
2	iP		10	35	28.6	
2	eP		15	06	38	
2	iP		17	35	05.3	

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TOOLANGI

September 1967

20	eP	NEZ	00	09	52	strong local
	e(S)	NEZ		10	08	
20	eP	NEZ	09	43	22	
	e(S)	NEZ		46	49	
	e	E		48	47	
20	eP	NEZ	10	35	02	
	eS	NE		38	31	
	T max.	NEZ			52.5	
20	e(P)	NEZ	11	13	16	
	e(S)	NEZ		16	42	
20	e(P)	NEZ	11	14	36	
20	e(P)	NEZ	11	16	42	
20	eP	NEZ	12	11	01	
	eS	NE		14	30	
	T max.	NEZ			28.5	
20	eP	NEZ	13	50	25	
20	eP	NEZ	14	08	28	
20	eP	NEZ	15	02	23	
20	eP	NEZ	16	03	05	
20	eP	NEZ	18	45	03	
20	eP	NEZ	20	21	02	
	e	N		25	27	
	T max.	NEZ			38.2	
20	eP	NEZ	23	56	13	
	eS	E	00	00	21	
	e	E		01	13	
	e	N Z		02	17	
21	eP	EZ	07	45	12	
	e	NEZ		45	16	
21	eP	EZ	12	54	25	
21	eP	NEZ	17	50	50	
21	eP	NEZ	19	49	33	
22	eP	NEZ	05	24	41	
22	eP	NEZ	10	30	16	
	e	N Z		30	35	
	eS	NE		40	33	
	ePS	N		41	29	
	e	NEZ		43	21	
	eLR	N Z			56.3	
	eM	N Z	11		03.6	
22	e(P)	NEZ	10	43	21	
22	iP	EZ	15	02	40.5	
22	iP	NEZ	21	33	15.4	comp.
	e	N			37.4	
22	iP	NEZ	23	15	26.4	
23	eP	EZ	02	04	47	
23	eP	NEZ	02	29	38	
23	iP	NEZ	03	03	11.4	local
	eS	NEZ		03	17	

TOOLANGI (continued)

September 1967

23	iP	NEZ	03	29	23.9	dil.N.E.	2.3
	iS	NEZ		34	30		
23	eP	NEZ	05	04	30		
23	iP!	NEZ	07	02	39.1	dil.N.E.	2.8
23	iP	NEZ	07	06	14.0	dil.S.E.	2.4
	ePPP	Z		06	45		
	eS	NEZ		09	45		
	eLQ	N		09	49		
	eSSS	N Z		10	18		
	eLR	N			10.8		
	e	N		11	20		
	eM	N			14.2		
	T max.	NEZ			23.5		
23	iP	NEZ	07	45	44.0	dil.N.E.	2.2
23	eP	NEZ	18	02	41		
23	eP	NEZ	22	48	58		
	e	Z		51	47		
24	eP	NEZ	01	05	23		
	e	Z		05	33		
	e	Z		07	13		
24	eP	NEZ	01	16	30		
24	eP	NEZ	03	22	06		
	e	NEZ		22	13		
24	iP	NEZ	06	17	57.6	comp.	
	e	N Z		19	43		
	e	NEZ		19	49		
	e	Z		23	14		
24	iP	NEZ	07	54	52.6		
	e	NEZ		55	21		
	e	Z		57	45		
	e	NEZ	08	01	30		
24	e(P)	NEZ	08	01	30		
24	iP	NEZ	15	12	08.5		
25	eP	NEZ	04	46	18		
	e	Z		46	30		
	e	Z		46	38		
25	e(P)	EZ	07	09	41		
25	eP	Z	09	11	36		
	e	EZ		11	41		
25	eP	NEZ	13	11	16		
	e	Z		11	37		
	e	Z		12	57		
25	iP	NEZ	16	20	27	strong local	
	eS	NEZ		20	43		
25	eP	NEZ	17	11	58		
	e	NEZ		13	43		
25	eP	NEZ	19	41	40		

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MACQUARIE ISLAND

September 1967

19	iP	18 21 41.4
20	iP	09 40 34.9
20	iP	10 32 13.8
20	iP	12 08 09.4

MAWSON

September 1967

19	iP	11 15 02.0
19	iP	12 52 48.0
19	eP	16 06 18
19	eP	19 12 58
20	eP	09 47 58
20	eP	10 39 40
20	eP	10 49 00
20	eP	12 15 38
20	eP	18 50 04
21	eP	08 13 09
22	iP	05 45 23.5
22	eP	05 49 02
22	iP	08 20 49.3
22	iP	10 37 02.5
23	iP	07 07 01.2
23	eP	07 10 52
23	iP	09 32 38.5
23	iP	22 54 07.3
24	iP	08 00 51.9

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TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

October 1967

4	iP	EZ	06 09 27.8	
4	eP	NEZ	06 25 18	
	e	Z	26 47	
	e	E	34 50	
	e	E	36 14	
	e	N Z	37.1	
	e	NEZ	40 26	
4	eP	NEZ	08 24 17	
4	iP	NEZ	17 27 51.8	dil.
	eS	NEZ	33.1	
	eSSS	NE	35.7	
	eM	E	40.8	
4	eP	NEZ	21 31 51	
	e	Z	32 47	
	e	Z	33 03	
5	iP	NEZ	00 05 09.8	
5	eP	NEZ	04 14 08	
	e	Z	14 21	
	e	Z	14 26	
	e	Z	17 03	
	e	E	17 14	
	e	EZ	24.9	
	e	EZ	27.7	
5	iP	NEZ	18 34 18.7	
6	e(P)	Z	04 11 35	
6	iP	NEZ	22 36 17.6	
7	eP	NEZ	02 46 34	
7	eP	EZ	08 40 44	
	e	NEZ	40 57	
7	eP	NEZ	09 19 41	
	e	NEZ	19 48	
7	iP	NEZ	10 39 33.4	dil. N.E. 2.6
	epP	Z	41 12	
	ePP	Z	41 22	
	ePcP	Z	41 42	
	esPP	Z	43 21	
	iS	NEZ	44 40	
7	eP	EZ	14 47 22	
7	eP	EZ	19 58 34	
	e(S)	N	20 03.8	
8	eP	NEZ	17 05 29	
	e	N Z	05 47	
	eS	N	10 22	
	e	N	10 36	
	eSSS	E	12.3	
	eLR	N	13.2	
	eM	N	17.1	
8	iP	NEZ	18 14 47.0	dil.
	iPcP	Z	17 30	
	eS	N	20 01	
	eSSS	NEZ	22.4	
	e	N Z	25.7	

TOOLANGI (continued)

October 1967

8	e(P)	EZ	18 21 11	
8	iP	NEZ	20 19 10.7	comp.
9	iP	NEZ	04 12 40.6	comp.
	e	N Z	15 20	
9	eP	Z	05 07 27	
9	eP	NEZ	07 42 35	
9	eP	EZ	13 32 35	
	ePP	NEZ	34 26	
	ePPP	Z	37 12	
	e	E	37 34	
	eSKS	NE	39 35	
	eSKKS	NE	41 30	
	e	E	42.6	
	ePS	N	44 28	
	e	N	45.2	
	ePPS	E	46.2	
9	eP	NEZ	13 34 26	
9	iP	NEZ	17 27 48.2	dil. N.E. 3.
	ePP	EZ	29 32	
	ePcP	Z	29 49	
	esP	EZ	30 32	
	iS	NEZ	32 34	
	e(SS)	NEZ	35 48	
	e(ScS)	NE	36 48	
	e	N Z	39 48	
	e	N	41 17	
	e	N Z	44.7	
	e	Z	50.3	
	e	N	52.0	
9	iP	NEZ	18 39 09.3	
	e	Z	40 04	
9	iP	NEZ	23 29 49.3	
10	eP	NEZ	02 23 44	
10	eP	NEZ	05 21 53	
	e	EZ	22 06	
	e(S)	N	26 56	
	e(SSS)	E	29.3	
10	eP	NEZ	06 18 44	
	e	NEZ	19 00	
10	eP	EZ	18 28 23	

MAWSON

September 1967

26	iP	11 22 47.3	
26	iP	16 23 09.7	
	eS	32 55	
26	iP	17 18 30.4	
27	iP	17 19 50.3	

October 1967

3	iP	05 07 36.6	

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MAWSON (continued)

October 1967

4	iP	06 30 48.5
4	iP	17 33 52.7
	iS	44 18.5
5	iP	04 20 11.6
7	iP	01 25 54.3
8	iP	17 11 17.5
8	iP	18 20 24.2
9	iP	13 40 26.6
9	iP	17 32 34.6
	iPP	34 47.9
	iS	41 48.9
10	iP	05 27 23.0

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TOOLANGI

October 1967

11	e(P)	NEZ	07	38	12
11	eP	N Z	13	20	15
11	eP	NEZ	16	00	15
	i	NEZ		03	13
11	i(P)	NEZ	16	03	13.0
12	eP	NEZ	04	23	21
	e	NEZ		23	25
12	iP	NEZ	06	41	07.2 dil. 2.2
	e	NEZ		41	31
	e	EZ		41	50
	iS	NE		45	54
	eScP	Z		46	09
	eSS	NEZ		49	10
	iScS	NE		50	14
	e	N		53	08
12	iP	NEZ	13	05	54.2
	e	NEZ		07	43
12	e(P)	NEZ	13	07	43
12	iP	NEZ	18	38	14.7 dil.
	e	NEZ		38	35
	iS	NEZ		43	30
	ePcS	NE		44	16
	eSSS	NE		46.4	
	eLR	N Z		57.0	
	e	E		49.8	
	e	EZ		53.2	
12	eP	NEZ	20	33	09
12	eP	NEZ	22	15	29
13	eP	NEZ	07	33	12
	e	NEZ		33	23
13	e(P)	EZ	08	39	36
14	iP	NEZ	03	50	53.6
	i	Z		50	59
	e	Z		51	09
	e	Z		51	16
14	iP	NEZ	15	38	02
14	iP	NEZ	16	14	13.0 comp.
	i	Z		14	24
	e	Z		14	29
	eS	E		19	07
	eLR	NEZ		22.3	
15	ePKP	NEZ	08	19	37
	iPKP	NEZ		19	40
	ePP	Z		21	44
	epPP	NEZ		22	16
	iSKP	NEZ		22	42
	epPKS	E		23	36
	ePPP	Z		25	22
	eSKS	NE		26	32
	eSKKS	E		28	22
	eSS	E		38.7	
	eSSS	E		42.8	
	e	Z		46.5	
	eLQ	N		54.1	
	e	N		56.0	
	eIR	EZ	09	00.2	

TOOLANGI (continued)

October 1967

15	eP	Z	16	52	15
15	eP	NEZ	23	10	57
	e	EZ		11	15
15	eP	NEZ	23	44	19
16	eP	NEZ	11	11	05 regional
	e	N Z		11	14
	e	NE		11	30
	e	NEZ		11	46
16	iP !	NEZ	17	05	48.0 comp. S.E. 2.5
	i	N Z		07	29
	i	N Z		07	33
	iScP	Z		11	18
	e	N		12	00
16	eP	EZ	19	22	35
16	eP	NEZ	19	52	27
16	iP	NEZ	20	28	16.0
	e	EZ		28	24
16	iP	NEZ	21	19	08.1
16	eP	EZ	22	23	12
17	eP	NEZ	02	11	11
17	iP	NEZ	13	50	19.1 comp. S.E. 2.2
	e	NEZ		51	41
	e	Z		54	26
17	iP	NEZ	14	14	59.1 dil. 2.2
	e	EZ		15	41
17	iP	NEZ	21	15	19.0
	e	Z		15	28
	e	N Z		15	33

MAWSON

October 1967

Corrections to previous data.

8	iP	17	11	42.5	
8	iP	18	20	48.8	
9	iP	13	40	49.4	
9	iP	17	32	56.8	
	iPP		35	10.1	
	iS		42	11.1	
10	iP	05	27	44.0	

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11	iP	21	40	44.6	
12	iP	06	46	13.0	
	iS		56	30.0	
12	iP	13	14	59.7	
12	iP	18	43	14.2	
	iS		52	40.2	
14	iP	16	20	25.9	
14	iP	23	40	19.8	

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MAWSON (continued)

October 1967

15	iP		08	19	24.5
15	iP		13	13	56.0
16	iP		17	10	10.5
16	eP		20	25	54

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18	eP	EZ	01	31	03	
	e	Z		31	14	
	eS(KS)	E		41	17	
	e	E		51	31	
	e	NE		56.6		
	e	E	02	06.3		
	e	E		10.3		
	e	Z		17.6		
18	eP	EZ	02	52	43	
18	eP	NEZ	03	17	48	
18	eP	EZ	10	53	48	
18	eP	NEZ	22	12	21	
	e(PcP)	Z		15	28	
	e(S)	E		17	35	
	e(ScP)	Z		19	05	
	e	EZ		19	16	
18	e(P)	Z	22	15	28	
18	e(P)	Z	22	19	05	
18	eP	NEZ	23	41	14	
	e	Z		41	21	
	e	Z		41	24	
	e	Z		41	33	
	eS	NE		46	13	
	eLQ	NE		48.0		
	eLR	NEZ		50.1		
19	eP	NEZ	00	52	24	
	e	N Z		54	06	
19	iP	NEZ	13	15	10.0	
19	eP	NEZ	13	41	37	
19	eP	NEZ	15	51	37	
20	eP	EZ	00	34	13	
20	iP	NEZ	01	15	13.2	comp.
	e	N Z		15	27	
	e	EZ		15	36	
	eS	N		25.5		
	e(PPS)	N Z		26.6		
	eSS	N		31.0		
	eLQ	E		36.8		
	e(M)	N Z		47.4		
	e	NE		50.6		
20	eP	NEZ	02	16	24	
20	iP	NEZ	14	09	15.0	
	e	Z		16	40	
20	iP	NEZ	16	02	48.7	
	e	Z		03	06	
	ePcP	Z		05	26	
	eS	NE		07.8		
	eLR	NE		11.2		
21	eP(KP)	Z	05	18	50	
	i	NEZ		19	02.3	
	e	EZ		19	14	
21	i(P)	NEZ	05	19	02.3	
21	eP	NEZ	12	56	56	

TOOLANGI (continued)

October1967

21	iP	NEZ	17	10	32.5	
21	iP	NEZ	18	46	17.6	
	e	EZ		46	43	
21	iP	NEZ	21	04	22	strong local
	iS	NEZ		04	35	
21	eP	NEZ	21	37	24	
22	eP	NEZ	04	23	16	
	e	Z		24	56	
22	eP	NEZ	06	37	15	
	e	Z		49	33	
	e	E		50	20	
	e	E		50	50	
	e	Z		53	20	
22	eP	NEZ	21	57	14	
	e(S)	E	22	01	20	
	e	EZ		02	30	
22	eP	EZ	22	25	35	
22	iP	NEZ	23	15	02.7	
23	eP	NEZ	02	14	46	
	e	NEZ		15	20	
	e(S)	E		19.2		
	e	E		20	25	
	e	NEZ		21	08	
23	eP	EZ	04	58	15.5	
23	eP	NEZ	05	47	19	
	e	EZ		47	27	
23	iP	NEZ	08	37	09.4	
	e	Z		37	24	
	e	Z		38	39	
	e	Z		38	49	
	eS	NE		45	22	
	e	E		48.3		
	e	N		53	14	
	e	Z		55	26	
	e	N Z	09	00.1		
24	iP	NEZ	01	44	07.0	
24	iP	NEZ	03	19	07.5	dil.E 2.0
	e	NEZ		20	34	
	e	N Z		23	04	
	e	Z		25	22	
24	eP	NEZ	11	00	28	
	e	NEZ		01	35	

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17	iP	13	55	08.4	
18	eP	01	31	34	
18	eP	14	49	46	
18	eP	19	59	58	
18	iP	22	17	25.5	
18	iP	23	47	25.1	

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MAWSON (continued)

October 1967

19	eP	15 46 20
19	eP	21 05 33
20	eP	01 09 58
21	eP	02 47 18
21	iP	18 51 26.7
22	eP	01 04 07
25	eP	01 13 09

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25	iP	NEZ	01	00	00.3	comp. S.E.2.7
	ePcP	Z		10	30	
	ePPP	Z		14	15	
	eS	E		18	44	
	eSS	E			23.2	
	eSSS	E		25	57	
	e	E			27.9	
	ePKP	E			28.6	
	e	EZ			30.8	
	eM	Z			34.7	
	ePKPPKP	Z		38	45	
25	e(P)	Z	01	38	45	
25	eP	NEZ	02	08	00	
25	iP	NEZ	09	05	18.4	comp.
	e	N Z		05	30	
	e	EZ		05	36	
	e	Z		05	44	
	e	NEZ		07	21	
25	eP	NEZ	09	17	56	
	e	EZ		18	12	
	e	Z		18	24	
25	iP	NEZ	09	21	28.5	
25	eP	NEZ	15	15	05	
	e	Z		15	11	
26	iP	NEZ	00	32	59.7	comp. 2.3
	e	EZ		33	22	
	e	N Z		35	13	
	e	EZ			42.2	
26	iP	NEZ	05	18	16.5	
	e	NEZ		18	28	
26	eP	NEZ	08	54	44	
	e	NEZ		54	54	
26	eP	NEZ	09	35	06	
26	eP	Z	12	41	21	
	e	Z		41	26	
26	eP	Z	14	04	29	
	e	Z		04	33	
	e	Z		04	39	
	e	Z		04	54	
26	eP	NEZ	16	28	33	
26	iP	NEZ	17	29	52.7	comp. S.E.
	e	N Z		30	06	
	i	NEZ		30	09	
	e	NEZ		30	15	
	e(PPP)	NEZ		32	20	
	iS	NEZ		36	07	
	e	NE		36	41	
	e	NE		39	13	
	e(ScS)	N Z		39	25	
	e(LR)	Z			42.1	
	e	N		42	28	
	e	Z			44.6	

TOOLANGI (continued)

October 1967

27	eP	NEZ	00	12	08	
27	iP	NEZ	04	46	30.3	comp.
27	eP	NEZ	10	44	07	
27	iP	NEZ	20	52	09.3	
28	NIL					
29	e(P)	Z	12	49	38	
29	e(P)	NEZ	16	07	26	
30	eP	NEZ	02	42	21	
	e	NEZ		42	29	
	e	NE			50.7	
30	eP	NEZ	14	35	58	
	e	NEZ		36	07	
30	eP	EZ	23	31	32	
31	eP	NEZ	01	22	01	
31	eP	EZ	10	21	17	
31	eP	N Z	21	27	30	

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November 1967

1	eP	NEZ	03	22	37		(regional)	
1	eP	NEZ	15	06	42			
	e	EZ		07	18			
1	eP	NEZ	16	43	34			
1	iP	NEZ	17	26	25.5	comp.S.		2.4
	e	Z		27	11			
	e	E		27	49			
	e	Z		28	15			
	e(ScP)	Z		31	25			
	e	NEZ		35	51			
1	eP	NEZ	17	35	51			
	e	Z		35	59			
1	eP	NEZ	19	03	39			
	e(S)	N		09	10			
	e	NE		09	18			
	eLQ	E		11	35			
	eSSS	N		12	17			
	eLR	N		13.5				
	e	N Z		13	55			
	e	NE		15.5				
	eM	N Z		17.7				
1	eP	NEZ	22	02	09		(regional)	
2	eP	NEZ	01	07	14			
2	eP	NEZ	06	58	06			
2	iP	EZ	16	25	00.8			
3	eP	NEZ	01	51	50			
3	eP	NEZ	04	57	28			
3	iP	NEZ	07	38	20.8			
	e	NEZ		38	35			
	e	Z		39.2				
	e	Z		41.7				
	e	E		43	17			
	e	E		44	04			
	e	N Z		44.8				
	e	NE		44	54			
	e	NE		45	20			
	e	NEZ		47.7				
3	iP	NEZ	10	39	47.1			
	e	NEZ		40	09			
3	eP	NEZ	22	50	16			
4	iP	NEZ	05	17	54.5	dil.	N.W	2.1
4	iP	NEZ	10	23	36.3	dil.		2.7
	iS	NEZ		28	43			
	e	E		31.9				
	e	E		32	15			
4	eP	NEZ	14	42	50			
	e	Z		58	15			
	e	E	15	04.3				
4	e(P)	Z	14	58	15			
4	eP	EZ	16	45	34			

TOOLANGI (continued)

November 1967

5	NIL							
6	eP	NEZ	11	56	15			
6	iP	NEZ	21	39	21.3	dil.		2.5
	eS	E		44	28			
7	eP	NEZ	03	57	13			
	e	EZ		57	27			
	e	EZ		57	37			
	e(S)	E	04	03.7				
	e(ScS	EZ		07.1				
	e(LR)	N		07.9				
	e	E		09.3				
	e	EZ		12.3				
7	eP	EZ	08	41	04			
7	eP	NEZ	10	28	40			
	e	N Z		29	59			
	e	E		38	57			
	e	N		39	13			
	e	E		40	34			
	e	NEZ		41	12			
	e	E		41	35			
	e	N Z		43	28			

MAWSON

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26	iP	09	40	11.5	
26	iP	17	34	09.9	
29	eP	12	44	14	
29	iP	16	45	12.4	

November 1967

1	iP	15	11	52.5	
1	iP	17	31	34.3	
1	iP	19	09	00.9	
2	iP	03	44	12.3	
3	iP	07	44	32.1	
3	iP	22	45	33.7	
4	iP	10	28	45.7	
4	iP	14	49	38.7	
7	eP	04	02	07	

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8	eP	NEZ	06	14	03	
	e	Z		14	18	
	eS	N		19	26	
	e	N Z		19	54	
	e	N		24	02	
	e	NE		25	51	
	e	NEZ		26.2		
	e	N Z		28.5		
8	e(S)	E	18	33	47	
	e	N		40	20	
	e	E		48.6		
9	iP	NEZ	02	25	03.6	comp. S.E. 2.6
	ipP	NEZ		26	40	
	iPP	NEZ		26	44	
	iPcP	Z		27	12	
	esP	Z		27	47	
	eScP	Z		30	01	
	iS	NEZ		30	03	
	esS	NE		33	04	
	eSS	NEZ		33	22	
	eM	EZ		38.7		
9	iP	NEZ	11	04	20.5	
9	iP	NEZ	18	30	58.3	
	e	Z		31	20	
	e	EZ		31	28	
9	eP	NEZ	20	19	22	
	e	N		30.0		
	e	Z		32.3		
10	eP	EZ	00	01	26	
10	eP	NEZ	03	34	35	
10	eP	NEZ	06	16	17	
	e	EZ		16	25	
10	eP	NEZ	07	36	07	
10	eP	NEZ	11	38	50	
	e	Z		50	59	
10	iP	NEZ	13	17	40.6	dil. E. 2.4
	e	Z		19	33	
	iS	N		22	45	
10	eP	NEZ	18	20	11	
	e	Z		20	18	
	e	EZ		20	36	
10	iP	NEZ	19	09	45.4	dil.
10	iP	NEZ	20	00	13.9	comp.
	e	NEZ		01	35	
11	iP	NEZ	00	31	32.3	dil.
11	eP	NEZ	03	52	19	
11	iP	NEZ	06	12	02.0	
11	eP	NEZ	06	45	27	
11	eP	NEZ	11	50	44	
	e	Z		50	59	

TOOLANGI (continued)

November 1967

11	eP	NEZ	12	07	28	
	e	EZ		07	35	
	e	Z		07	45	
11	eP	NEZ	12	26	30	
	e	EZ		26	36	
	eS	N		36	12	
	e	N		45.1		
11	eP	NEZ	15	16	43	
	e	EZ		16	47	
11	iP	NEZ	18	11	33.6	
	eS	N		21	07	
	e	N		30.2		
11	iP	NEZ	19	03	22.3	
	e	EZ		03	26	
11	iP	NEZ	19	17	42.5	
	e	EZ		19	07	
11	e(P)	EZ	19	19	07	
11	eP	EZ	19	34	53	
11	iP	NEZ	20	28	46.0	dil.
11	eP	NEZ	21	13	59	
12	eP	NEZ	05	59	59	
12	iP	NEZ	10	44	45.0	comp. 2.3
	iS	N		51	04	
	e	NE		51	17	
	e	N Z		54	33	
	e	NEZ		55	37	
	e	NEZ		57.6		
12	eP	NEZ	12	43	07	
12	iP	NEZ	13	14	08.7	
	e	EZ		15	07	
12	eP	NEZ	17	30	06	
	e	Z		30	29	
	e	EZ		30	42	
	eS	NE		34	46	
	e	EZ		37	10	
	e	NEZ		39.9		
12	eP	NEZ	19	03	10	
	e	NEZ		03	20	
	e	Z		03	26	
12	eP	NEZ	21	29	53	
12	eP	EZ	21	57	13	
12	iP	NEZ	22	06	14.0	
12	eP	NEZ	23	20	41	
	e	NEZ		21	27	
12	e(P)	NEZ	23	21	27	
13	eP	NEZ	03	01	19.5	
13	iP	NEZ	06	33	46.4	

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TOOLANGI (continued)

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13	eP	EZ	10	14	33	
13	eP	NEZ	15	59	37	
	e	Z		59	49	
13	eP	NEZ	16	21	21	
	e	EZ		22	58	
	e	EZ		23	04	
14	eP	NEZ	00	52	24	
14	iP	NEZ	05	34	46.2	dil. 2.0
	e	N Z		36	03	
	e	NEZ		36	56	
	iS	NEZ		39	43	
	i	Z		40	56	
	e	N Z		41.3		
	e	E		42	18	
	e	N Z		44.3		

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8	iP	06	19	19.4
8	iP	17	29	00.4
8	eP	17	42	09
9	iP	02	29	17.2
10	iP	18	48	54.6
11	iP	12	06	12.2
11	iP	12	25	13.2
11	iP	15	15	25.6
11	iP	18	10	16.8
12	iP	10	49	31.9
14	iP	05	40	38.7

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15	iP	NEZ	07	44	26.7	comp.
15	iP	NEZ	20	50	58.2	
15	eP	Z	21	50	21	
	ePcP	Z		50	40	
	eS	NEZ		59	38	
	e(PS)	NE		59	53	
	e(ScS)	NEZ	22	00	39	
	e	E			05.7	
	e	NE			16.2	
	e	NEZ			20.1	
	e	EZ			24.0	
16	eP	NEZ	07	30	03	local
	eS	NEZ		30	11	
16	eP	NEZ	13	29	11	
16	eP	NEZ	16	37	11	
16	eP	NEZ	23	17	48	
17	iP	NEZ	09	25	45.5	
	e	NEZ		25	59	
	e	Z		28	47	
	e	N Z			31.0	
	e	N Z			36.6	
17	eP	NEZ	10	04	38	regional
	eS	NEZ		05	00	
17	eP	NEZ	10	16	01	
17	eP	NEZ	20	11	58	
18	eP	NEZ	01	13	38	
18	iP	NEZ	05	14	12.5	
18	eP	NEZ	14	57	45	
18	eP	NEZ	19	59	43	
18	eP	NEZ	21	47	56	
19	iP	NEZ	01	14	49.5	
19	eP	NEZ	09	58	19	
19	eP	NEZ	12	18	31	
	e	Z		18	41	
	e	Z		18	48	
	e	EZ		18	57	
19	eP	NEZ	15	29	34	
19	iP	NEZ	15	47	10.3	
19	eP	NEZ	17	34	57	
	e	NEZ		35	44	
	eS	NE		39	28	
	e	EZ			42.0	
19	eP	EZ	17	54	59	
19	eP	EZ	19	11	33	
19	eP	NEZ	19	23	35	
19	eP	NEZ	20	25	15	

TOOLANGI (continued)

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20	eP	NEZ	01	07	29	(regional)
20	iP	NEZ	02	19	14.5	
	e	EZ		19	20	
	e	Z			31.0	
20	eP	NEZ	06	30	42	local
20	eP	NEZ	10	59	35	
20	eP	NEZ	13	44	12	
21	iP	NEZ	01	37	23	
21	eP	NEZ	20	05	50	
	e	NEZ		06	03	

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15	eP	07	48	13	
15	iP	21	43	50.4	
14	iP	05	40	40.2	(correction)
16	iP	13	35	18.0	
17	iP	08	01	08.2	
17	iP	09	31	50.5	
17	iP	01	22	06.5	
19	eP	12	25	44	
19	eP	17	41	07	
	eS		50	50	
21	iP	17	21	58.4	

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22	eP	NEZ	10	45	37	
22	e(P)	Z	14	50	09	
22	e(P)	EZ	14	50	13	
	e	NEZ		50	18	
22	eP	NEZ	15	25	03	
	eS	NE		29	34	
	e	Z		30	28	
	e	NE		30	36	
	e	N Z		31.6		
	e	Z		34.3		
22	eP	NEZ	22	10	39	
	e	N Z		11	36	
	e	N Z		12	02	
	e	Z		13	40	
23	eS(KS)	N	09	01	27	
	e(PSP)	Z		03	44	
	e(SSP)	N Z		08	31	
	eLQ	NE		17.8		
	e	N		20.5		
	eLR	N Z		23.5		
23	e(P)	Z	14	01	25	
24	iP	NEZ	05	48	58.3	comp. 2.4
	eS	N		54	24	
24	eP	NEZ	11	23	21	
24	eP	NEZ	18	55	14	
24	eP	EZ	22	11	50	
25	eP	NEZ	02	09	37	
25	eP	NEZ	13	04	27	
25	eP	NEZ	22	23	49	
26	eP	NEZ	00	19	04	
	e	NEZ		19	19	
26	eP	NEZ	03	01	40	
	e	NEZ		03	18	
	e	Z		11.0		
	e	N		13	15	
	e	N		16.5		
26	eP	NEZ	11	00	52	
	e	NE		06.9		
	e	N Z		19.5		
	e	N Z		24.4		
27	eP	NEZ	00	14	22	
27	eP	NEZ	05	40	24	
27	eP	NEZ	06	00	00	
27	eP	NEZ	07	00	00	
27	eP	NEZ	08	26	02	
	e	N		35.0		
	e	N		38.3		
	e	EZ		39.0		
27	eP	NEZ	11	13	44	

TOOLANGI (continued)

November 1967

28	eP	NEZ	02	33	29	
	e	Z		33	33	
28	eP	N Z	02	36	00	
	e	Z		36	04	
28	eP	EZ	02	36	34	
	e	N Z		36	38	
28	iP	NEZ	02	47	58.3	comp. S. 2.0
	e	EZ		48	35	
	iS	E		57	06	
	e	E		57	55	
28	eP	EZ	03	41	17	
	e	Z		41	23	
28	eP	NEZ	13	20	29	

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22	eP	15	31	09	
	eS		40	54	
22	iP	22	15	36.4	
23	eP	08	48	15	
	eS		58	38	
23	iP	14	01	59.2	
24	iP	05	54	06.9	
26	eP	11	05	24	
27	iP	05	24	53.8	

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29	eP	NEZ	01	43	15	
29	eP	NEZ	04	14	11	
29	eP	NEZ	08	22	08	
29	iP	NEZ	13	30	37.7	
30	iP	EZ	03	14	11.3	
	i	N Z		14	27	
30	eP	EZ	05	46	07	regional
	i	NEZ		46	09.7	
30	ePKP	Z	07	43	05	
	ePKP	N Z		43	17	
	e	Z		44	18	
	ePP	Z		46	04	
	eSKP	Z		46	26	
	eScSPKP	NEZ		58	12	
	eSPS	E	08	05.3		
	eSSS	NE		09.8		
	e	E		13.7		
	eLR	EZ		29.7		
	eM	NEZ		37.5		
30	iP	NEZ	08	19	36	strong local
	iS	NEZ		19	49	
30	iP	NEZ	15	54	06.7	dil. E. 2.0
	ePP	Z		56	00	
	eScP	Z		58	58	
	iS	NE		59	11	

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1	iP	NEZ	07	26	16.7	
	e	Z		26	34	
	e	N Z		27	58	
1	eP	NEZ	10	54	50	
	e	Z		55	00	
1	eP	NEZ	13	26	44	
1	iP	NEZ	14	09	34.0	dil.
	e	Z		09	40	
	e	N Z		10	08	
	eSKS	N		19	45	
	eS	E		20	03	
	e	N		21	36	
	e	E		26.7		
	e	E		32.5		
1	eP	NEZ	16	45	23	
1	iP	NEZ	16	59	39.0	
1	eP	NEZ	17	56	40	
1	eP	NEZ	20	24	42	
2	iP	NEZ	17	27	37.8	dil
	e	N Z		28	13	
	e	Z		28	21	
	eS	NE		32	35	
2	eP	NEZ	20	18	02	

TOOLANGI (continued)

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3	iP	NEZ	09	40	37.8	dil.
3	eP	NEZ	10	32	44	local
	eS	E		32	55	
4	eP	NEZ	06	09	51	
4	e(P)	N Z	07	45	07	
	e	EZ		45	16	
5	eP	NEZ	07	02	41	
5	eP	NEZ	17	34	34	

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30	iP	07	42	29.9
30	iP	15	59	11.0

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6	eP	NEZ	03	09	24		
	e	NEZ		11	06		
	i	EZ		12	03		
6	i(P)	EZ	03	12	03		
6	e(P)	NEZ	04	50	15		
6	iP	NEZ	05	09	47.8	dil.	2.2
	eS	NE		14	38		
	iScP	Z		14	59		
	i	NE		19	03		
6	eP	NEZ	05	50	25		
6	eP	Z	08	12	14		
	e	Z		12	19		
6	iP	NEZ	09	47	03.1	comp. S.W.	1.9
	e	NEZ		47	29		
	e	Z		53	35		
	e	N		54.4			
6	e(P)	N Z	09	53	54		
7	eP	NEZ	01	13	58		
7	iP	NEZ	09	48	47.2	comp. W.	2.4
	e	Z		49	32		
7	iP	NEZ	09	55	32.7	comp.	2.1
	e	NEZ		56	16		
	e	EZ		57	34		
	e	Z		58	32		
	e	N		59	40		
	e(S)	NE	10	00	20		
	e	N		02	44		
	e	NE		03	12		
7	eP	NEZ	20	34	20		
7	eP	NEZ	23	06	47		
8	eP	NEZ	02	06	42		
	e	NEZ		06	50		
	e(S)	NE		11.7			
	e	E		15.9			
	e	N Z		16.7			
8	eP	NEZ	06	36	20		
8	eP	NEZ	20	01	25		
9	iP	NEZ	05	34	34.9	dil.	
	e	NEZ		34	50		
	e	Z		34	56		
	e	EZ		35	09		
9	iP	NEZ	08	02	13.5		
	e	EZ		02	28		
	e	EZ		02	50		
9	eP	NEZ	10	57	07		
	e	NEZ		57	11		
	e	EZ		57	19		
	eS	NEZ		02	18		
	e	NE		04.4			
	e	N		04.8			
	e	N Z		05	38		
	e	N		08.0			
	e	Z		10.7			

TOOLANGI (continued)

December 1967

9	eP	NEZ	13	49	11.5	
10	eP	Z	02	14	38	
10	eP	NEZ	18	55	08	
10	iP	NEZ	23	04	06.5	
	i	EZ		04	12	
	eS	NE		14	44	
	eSS	N		20	20	
	eSPS	NE		20	29	
	eLQ	NE		26.8		
	e	Z		39.1		
	e	Z		40.8		
11	iP	NEZ	06	15	00.5	local
11	eP	NEZ	06	52	02	
11	eP	NEZ	10	25	00	
11	eP	EZ	12	24	23	
	e	Z		24	32	
11	eP	NEZ	19	48	16	
	e	Z		48	25	
11	eP	NEZ	21	02	34	
12	eP	NEZ	04	31	13	
12	iP	EZ	06	31	20.4	
12	eP	NEZ	14	29(20)		
12	eP	EZ	16	01(42)		

MAWSON

December 1967

3	iP	15	07	24.9	
4	iP	08	10	34.9	
4	iP	22	38	22.9	
5	iP	09	24	55.9	
6	iP	03	13	46.3	
7	iP	09	53	44.3	
7	iP	10	01	41.0	
8	iP	02	12	56.0	
8	iP	03	40	30.8	
9	iP	11	03	20.4	
10	eP	23	03	59	

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PRELIMINARY EARTHQUAKE PHASES AT:
TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

December 1967

13	eP		NEZ	10	17	10	local
	eS		NEZ		17	31	
13	iP		NEZ	10	50	47.5	
13	iP		NEZ	11	10	52.3	dil.
	e		Z		10	58	
13	iP		NEZ	15	44	19.9	comp.
13	eP		NEZ	16	03	04	
13	eP		NEZ	19	12	57	
	e		Z		13	10	
	e		Z		15	52	
	eS		NEZ		17	35	
	e		N		19.1		
	e		Z		20.5		
13	iP		NEZ	20	54	01.8	dil.
	e		N Z		54	35	
	i		N Z		56	38	
13	iP		NEZ	21	41	39.9	dil.
13	eP		NEZ	23	15	14	
	e		N Z		15	33	
14	eP		EZ	04	38	40	
14	eP		NEZ	07	46	43	
14	eP		NEZ	14	45	45	
14	iP		NEZ	20	24	08	
14	iP		NEZ	23	33	00.5	dil.
15	iP		NEZ	06	09	54	local
	iS		NEZ		09	56	
15	eP		NEZ	06	11	20	
15	eP		NEZ	19	45	18	
15	eP		NEZ	19	53	35	
16	iP		NEZ	21	06	53.5	comp.
	i		NEZ		07	08.5	
	e		Z		07	18	
	e		NZ		07	23	
17	eP		NEZ	04	55	11	local
	eS		NEZ		55	28	
17	eP		EZ	10	42	25	
17	eP		NEZ	16	01	49	
17	eP		NEZ	16	07	34	
17	eP		NEZ	16	12	42	
	e		NEZ		12	52	
18	eP		NEZ	01	11	50	
18	eP		NEZ	06	29	58	
18	eP		NEZ	10	30	43	
18	eP		NEZ	14	13	10	
	e		N Z		13	23	

TOOLANGI (continued)

December 1967

19 Nil, no time control from
00 55 hrs. to 24 00 hrs.

MAWSON

December 1967

10	eP	23 03 59
13	iP	15 48 35.0
13	iP	19 19 11.0
13	iP	20 59 52.4
13	iP	21 46 44.5
14	eP	14 51 52
15	iP	19 58 41.0

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PRELIMINARY EARTHQUAKE PHASES AT : TOOLANGI---MACQUARIE ISLAND---MAWSON

TOOLANGI

December 1967

20	iP	NEZ	06	21	07	local
	iS	NEZ		21	09	
20	eP	NEZ	08	54	48	
20	iP	NEZ	11	45	29.4	comp. 2.3
	i	N Z		46	03	
20	iP	NEZ	17	13	43.8	comp. 2.3
	e	Z		16	45	
21	eP	Z	02	44	07	
	e	NEZ		44	43	
	e	Z		45	07	
	e	Z		46	17	
	e	Z		46	38	
	e	NE		50	38	
	e	NEZ		54	05	
	e	N	03	00	.1	
21	eP	NEZ	11	48	27	
21	eP	NEZ	17	52	07	
	e	Z		52	19	
	e(S)	E		57	05	
	e	N		58	29	
	e	Z	18	00	.6	
21	iP	NEZ	23	54	18.8	comp.
22	eP	EZ	05	23	36	
22	eP	NEZ	23	15	23	
	e	EZ		15	32	
	e	Z		18	13	
	e(S)	N		22	51	
	e	EZ		24	.3	
23	eP	NEZ	07	42	39	
	e	NEZ		42	55	
23	eP	NEZ	13	29	47	
	e	NEZ		29	55	
	e(S)	NE		34	56	
	e	E		37	.5	
	e	N Z		39	.6	
23	eP	NEZ	16	46	53	
	e	NEZ		47	02	
23	eP	NEZ	17	23	32	
	e	EZ		23	52	
23	eP	NEZ	23	31	05	
24	iP	NEZ	02	31	20.0	dil. E. 2.3
24	eP	Z	09	42	02	
24	eP	NEZ	20	22	57	
	i	Z		23	03	
	i	NEZ		23	08	
	e	N Z		23	21	
	e	Z		26	35	
	e	Z		27	14	
	e	NEZ		36	51	
	e	Z		37	56	

TOOLANGI (continued)

December 1967

24	eP	NEZ	21	52	17	
	e	EZ		52	21	
	e	NEZ		52	26	
	e	Z		52	43	
25	eP	NEZ	01	30	05	
25	eP	NEZ	04	55	15	
25	eP	NEZ	12	16	09	
25	eP	Z	17	23	28	
25	eP	NEZ	19	48	06	
26	eP	NEZ	08	59	15	
	e	N Z		59	26	
	e	Z		59	44	
	e	Z	09	01	56	
	eS	NE		04	29	
	e	E		06	.7	
	e	N Z		09	.5	
26	eP	NEZ	14	40	39	
27	eP	NEZ	00	37	09	
	e	N Z		37	15	
27	eP	NEZ	01	49	42	
	e	Z		52	31	
	e	N Z	02	14	.0	
27	eP	NEZ	03	19	52	
27	eP	NEZ	03	50	57	
27	eP	NEZ	04	34	47	
	e	N Z		35	20	
	e	N Z		35	54	
	e	NE		40	.0	
	e	E		43	.3	
	e	N Z		44	.6	
27	eP	NEZ	09	37	07	
	e	NE		43	54	
	e	N Z		46	.6	
	e	NE		46	.9	
	e	EZ		47	04	
	e	NE		47	34	
	e	N		53	.2	
27	e(P)	EZ	09	47	04	
27	e	NEZ	10	33	40	
	e	N Z		33	56	
27	eP	NEZ	14	45	52	
	e	N Z		46	10	
	e	E		57	.6	
27	eP	NEZ	16	29	58	
	e	NEZ		30	02	
	e	EZ		30	17	
	e	EZ		31	16	
	eS	NE		35	43	
	e	NE		38	32	
	e	EZ		41	.0	
	M	EZ		48	.8	

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TOOLANGI (continued)

December 1967

28	eP	NEZ	00	06	07
28	eP	NEZ	07	48	22
28	eP	NEZ	17	52	36
	e	Z		55	46
28	e(P)	Z	17	55	46
29	eP	N Z	00	54	08
29	eP	N Z	09	45	40
29	eP	N Z	20	36	39
	eS	N		45	16
	e	NE		45	25
	e	N Z		46	02
29	eP	N Z	22	30	12
	e	Z		30	24
30	eP	N Z	00	15	21
30	eP	Z	04	38	55
31	e(P)	Z	15	12	07
	e	Z		12	22
	e(S)	E		17.1	
	e	NEZ		24.7	
31	eP	Z	15	27	32

No S.P. - E.W. from 00 hrs. on 29.12.67

MAWSON

December 1967

20	iP	11	46	41.3	
21	iP	02	37	49.9	
	iS		48	20.8	
	eLR	03	06	55	
24	eP	20	21	28	
25	iP	01	36	06.0	
	iS		46	32.7	
25	iP	10	54	00.8	
	iS	11	04	23.5	
25	iP	12	22	07.9	
27	iP	09	30	08.9	
	iS		40	29.9	
27	iP	16	34	59.0	
	iS		45	07.0	
29	iP	20	41	42.4	

January 1968

2	iP	00	33	44.0	

MACQUARIE ISLAND

December 1967

25	eP	01	32	11	
27	eP	16	30	05	

January 1968

1	iP	07	14	52.3	

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