

Seismological Bulletin 1932.

Royal Magnetical and Meteorological Observatory
Batavia, Java.

Foundation: River Quaternary.

Greenwich Civil Time. Height above sealevel 8 m.

S. Latitude $6^{\circ}11'0''$. E. Longitude $7^{\text{h}} 7^{\text{m}} 20.3^{\text{s}}$.

Wiechert Horizontal Pendulum, 1000 kilograms, NS and EW components,

Wiechert Vertical Pendulum, 1300 kilograms

Bosch-Omori seismograph, 25 kilograms.

MALABAR.

Foundation: Volcanic.

S. Latitude $7^{\circ} 13'$; E. Longitude $107^{\circ} 37'$; Height above sea-level 1550 m. Wiechert Horizontal Pendulum 100 kg, NS and EW component. Since July 1911. Time Signals by Malabar Radio.

Possession of Mr. R. A. Kerkhoven.

AMBOINA.

Foundation: Quaternary.

S. Latitude $3^{\circ} 42'$; E. Longitude $128^{\circ} 10'$; Height above sea-level 4 m. Wiechert Horizontal Pendulum 1000 kg, NS and EW component. Since October 1924. Time Signals by Malabar Radio.

MEDAN.

Foundation: Quaternary.

N. Latitude $3^{\circ} 35'$; E. Longitude $98^{\circ}41'$; Height above sea-level 25 m. Wiechert Horizontal Pendulum 1000 kg, NS and EW component. Since July 24th, 1929. Time Signals by Malabar Radio.

SOENGEI LANGKA.

S. Latitude $5^{\circ} 24' S$; E. Longitude $105^{\circ}13'$. Height above sea-level m. Bosch-Omori, NS component. Since September 5, 1931. Time Signals unreliable.

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International
Seismological
Centre

1932	EW component			NS component			V component		
	V	T ₀	E	V	T ₀	E	V	T ₀	E
January	220	6.9	3.4	200	6.7	3.7	330	4.7	3.7
February	220	6.9	3.3	200	6.7	3.8	330	4.7	3.6
March	220	7.1	3.3	200	7.1	4.0	330	4.7	3.6

	e ₀ r		e ₀ r		e ₀ r	
	e ₀	r	e ₀	r	e ₀	r
January	1.17	0.5	1.12	0.9	1.14	0.6
February	1.13	0.4	1.13	1.0	1.16	0.7
March	1.12	0.4	1.14	0.9	1.17	0.9

January.

1	Jan.	1 Bat.	I _v	eP	16 45 56	930
				S	16 47 36	
				F	16 55	
2	,,	2 Bat.	I _v	P	18 23 8	690
				S	18 24 22	
				F	18 30	
3	,,	3 Bat.	I	i	8 0 24	
				F	8 6	
4	,,	3 Amb.	III _d	iP	8 11 10	40 destructive at Saparoea, Ceram.
				off	8 11 14	
				on	9 11	
5	,,	3 Amb.	II _v	iP	9 27 42	40
				iS	9 27 46	
				F	9 36	
6	,,	3 Mal.	I _v	iP	10 59 22	
				iS	10 59 23	
				F	10 59 51	
7	,,	3 Amb.	I _v	P	13 23 54	40
				S	12 23 58	
				F	in next	

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8	Jan.	3	Amb.	I _v	P 13 25 34 iS 13 25 38 F 13 28	40	
9	,,	3	Amb.	I _v	P 13 48 47 S 13 48 52 F 13 50	40	
10	,,	4	Amb.	I _v	P 23 52 3 iS 23 52 9 F 23 56	50	
11	,,	5	Bat.	I	e 0 40,7 i 0 43 54 F 0 50		
			Amb.	I	P 0 38 28 S? 0 39 30 F 0 49	570?	
12	Jan.	6	Amb.	I _v	P 4 29 29 S 4 29 34 F 4 31	40	
13	,,	7	Amb.	I _v	P 6 52 51 S 6 52 55 F in next	40	
14	,,	7	Amb.	I _v	P 6 54 41 S 6 54 45 F 6 56	40	
15	,,	7	Amb.	II _v	P 23 53 40 S 23 53 44 F 23 57	40	Saparoea.
16	,,	8	Amb.	I _v	P 0 18 45 S 0 18 49 F 0 20	40	
17	,,	8	Amb.	I _v	P 2 5,2 iS 2 5 17 F in next		in minute eclipse.
18	,,	8	Amb.	I _v	P 2 7 54 S 2 7 59 F 2 10	40	
19	,,	8	Amb.	I _v	P 12 27 10 S 12 27 15 F 12 29	40	
20	,,	8	Amb.	II _d	iP 13 40 47 iS 13 40 51 F 13 43	40	
21	,,	8	Amb.	II _d	P 17 23 0 iS 17 23 8 F 17 31		in minute eclipse.

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22	Jan.	9	Bat.	II _r	P _w	10	29	40	4860	
					S	13	36	5		
					eL	10	50		25	
					eL	10	55		16.5	
					F	11	5			
			Mal.	I _r	eP	10	29	45	4720	
					iP	10	29	46		
					iS	10	36	2		
					F	10	38			
			Amb.	II	iP	10	26	49		
					i	10	27	15		
					i	10	28	12		
					F	11	6			
23	,,	9	Amb.	III _d	iP	14	14	30		
					off	14	14	48		
24	,,	10	Amb.	I _v	P	11	58	42	190	
					S	11	59	4		
					F	12	7			
25	,,	10	Amb.	II _v	iP	12	18	4	100	
					S	12	18	16		
					F	12	24			
26	,,	10	Amb.	I _v	P	14	34	30	40	
					iS	14	34	34		
					F	14	37			
27	,,	11	Amb.	II _v	iP	21	30	32	40	
					S	21	30	36		
					F	21	34			
28	,,	11	Amb.	III _d	iP	2	26	44	(40)	Saparoea.
					off	2	26	47		
					on	2	30			
					F	2	49			
29	,,	11	Amb.	I _v	P	5	13,7			in minute eclipse.
					S	5	13	45		
					F	5	16			
30	,,	11	Amb.	I _v	iP	7	11	24	40	
					iS	7	11	28		
					F	7	13			
31	,,	11	Bat.	I _v	eP	17	24	8	180	
					S	17	24	29		
					F	17	31			
			Mal.	I _v	eP	17	24	49	50?	
					S?	17	24	55		
					F	17	26			
32	,,	12	Mal.	II _v	P	7	6	19	130	
					iS	7	6	34		
					F	7	9			
33	,,	12	Amb.	I _v	iP	12	48	32	40	
					S	12	48	37		
					F	12	52			
34	,,	12	Amb.	I _v	P	20	1	32	40	
					iS	20	1	36		
					F	20	5			

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35	Jan.	13	Amb.	II _v	iP	0 41 23	40	
					iS	0 41 28		
					F	0 47		
36	,,	13	Amb.	III _v	iP	2 9 6	40	
					S	2 9 11		
					F	in next		
37	,,	13	Amb.	I _v	iP	2 15 0	40	
					S	2 15 5		
					F	2 20		
38	,,	13	Amb.	I _v	P	2 46 53	40	
					iS	2 46 57		
					F	2 49		
39	,,	14	Amb.	I _v	P	4 54 21	30	
					S	4 54 24		
					F	4 56		
40	,,	16	Amb.	I	i	5 57 45		
					F	6 4		
41	,,	16	Mal.	I _v	P	9 20 18	80	
					iS	9 20 37		
					F	9 22		
42	,,	16	Mal.	I _v	eP	17 10 14	210	
					iS	17 10 38		
					F	17 13		
43	,,	17	Amb.	I _v	P	1 41 54	40	
					S	1 41 58		
					F	1 44		
44	,,	17	Mal.	I _v	eP	10 17,5	(120)	
					S	10 17 51		
					F	10 19		
45	,,	17	Amb.	I _v	P	13 53 43	40	
					S	13 53 47		
					F	13 56		
46	,,	20	Amb.	II _v	iP	5 36 15	70	
					iS	5 36 23		
					F	5 43		
47	,,	20	Amb.	I _v	P	13 45 36	40	
					S	13 45 40		
					F	13 47		
48	,,	21	Bat.	I	iP	14 51 14		azimuth NNE.
					F	14 56		
49	,,	21	Mal.	I	i	21 13 38		
					F	21 17		
50	,,	21	Amb.	II _v	iP	23 23 6	80	
					iS	23 23 15		
					F	23 28		

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51 Jan. 23 Bat.	I	iEW	3 54 42		
		i	4 3 49		
		L	4 20	21	
		F	4 28		
Amb.	I	iP	3 52 6		
		i	3 58 22		
		L	4 7	19	
		M	4 9 48	18	
		F	4 35		
Med.	I _u	PEW	3 56 59	7650	
		i	3 57 53		
		S	4 5 59		
		L	4 26	25	
		L	4 30	18	
		F	4 47		
52 ,, 24 Amb.	I	eP	18 15 22	(40)	
		S	18 15,5		in minute eclipse.
		F	18 17		
53 ,, 27 Bat.	I _v	P	6 38 38		240 East Priangan (W.Java).
		S?	6 39 5		
		i	6 40 13		
		F	6 45		
Mal.	II _v	iP	6 38 25	90	
		iS	6 38 36		
		F	6 44		
54 ,, 29 Bat.	II _u	PEW	13 49 52	5060	
		iS	13 56 31		
		F	in next		
Amb.	II _r	iP	13 46 52	3220	
		i	13 46 59		
		i	13 47 43		
		iS	13 51 40		
		i	13 52 6		
		L	14 0 10	20	
		F	in next		
Mal.	I _u	P	13 49 52	5260	
		i	13 51 7		
		iS	13 56 43		
		F	14 6		
Med.	II _u	PEW	13 50 58	6320	
		S	13 58 48		
		F	14 46		
55 ,, 29 Bat.	I _r	eP	14 16 33		4560 overlapped by No. 10.
		iS	14 22 40		
		F	14 38		
Amb.	I _r	eP	14 13 54		3500 overlapped by No. 10.
		S	14 19 0		
		F	15 8		
56 ,, 29 Bat.	I _u	eP	15 47 46	5270	
		iS	15 54 36		
		L	16 1		
		F	16 8		
Amb.	I _r	P	15 44 49	2880	
		i	15 45 26		
		iS	15 49 15		
		i	15 50 33		
		eL	15 56	21	
		F	16 17		

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		Med.	Iu	eP	15 48 52	6320
				iS	15 56 42	
				L	16 15	17
				F	16 47	
57 Jan.	30	Bat.	I	i	3 13 36	
				L	3 37	18
				F	3 48	
		Med.	I	eP	3 14 51	
				i	3 22 54	
				F	4 4	
58 ,,	30	Mal.	Iv	P	15 12 12	100 Daradjat (E. Priangan).
				S	15 12 24	
				F	15 14	
59 ,,	31	Bat.	I	i	16 9 34	
				i	16 16 11	
				F	16 36	
		Amb.	I	i	16 6 46	
				i	16 12 40	
				F	16 33	
		Med.	I	e	16 12,0	
				i	16 21 53	
				F	16 32	
60 ,,	31	Amb.	Iv	P	21 10 48	70
				iS	21 10 56	
				F	21 17	
61 ,,	31	Bat.	I	e	21 39 9	Atjeh.
				i	21 43 42	
				i	21 44 48	
				F	21 49	
		Med.	IIIv	iP	21 37 2	210
				iS	21 37 26	
				F	21 55	

February.

62 Feb.	1	Mal.	Iv	P	8 42 45	130
				S	8 43 0	
				F	8 43 35	
63 ,,	2	Bat.	Iv	PEW	5 30 3	200 Bantam (W. Java).
				iS	5 30 26	
				F	5 34	
		Mal.	Iv	eP	5 30 9	270
				S	5 30 40	
				F	5 32	
64 ,,	3	Bat.	I	i	6 37 25	
				F	6 59	
		Med.	I	e	6 37 1	
				F	7 10	
65 ,,	3	Bat.	I	i	7 42 27	
				i	7 48 38	
				F	7 59	
		Med.	I	e	7 42 25	
				i	7 48 39	
				i	7 49 49	
				L	7 54 36	20
				F	8 7	

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66 Feb.	4	Amb.	III _v	iP	5	23	11	100
				iS	5	23	13	
				F	5	25		
67	,,	5	Bat.	I	i	13	58	53
					i	14	0	43
					F	14	15	
		Med.	II _u	P	13	48	23	5290
				i	13	48	28	
				S	13	55	16	
				i	13	55	47	
				F	14	18		
68	,,	7	S.L.	I _d	eP	2	51	38
					eS	2	51	43
					F	2	52	
69	,,	8	Bat.	I _v	eP	9	21	50
					S?	9	22	54
					F	9	31	580?
70	,,	8	Med.	I	e	19	46,2	
					i	19	49	14
					F	20	8	
71	,,	12	Bat.	I	e	0	57	26
					i	1	5	1
					F	1	21	
		Med.	I	e	1	4	31	
				i	1	6	57	
				L	2	22		17
				F	2	34		
72	,,	12	Med.	I	e	23	46	45
					F	23	52	
73	,,	13	Amb.	I _v	P	22	0	40
					S	22	1	12
					F	22	3	280
74	,,	14	Bat.	I	i	23	21	21
					i	23	22	8
					i	23	31	48
					i	23	34	50
					F	24	4	
		Med.	II	i	23	21	9	
				i	23	29	23	
				i	23	33	46	
				F	24	23		
75	,,	16	Bat.	I _v	eP	7	14	22
					S	7	15	25
					i	7	15	47
					F	7	18	580
76	,,	16	Bat.	I	P	14	0	18
					i	14	1	18
					i	14	9	40
					i	14	13	47
					L	14	33,3	20.0
					F	14	49	
		Med.	I	i	14	1	37	
				i	14	5	24	
				L	14	42		21
				F	15	4		

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Amb.	I	P	13	57	4	20.5
		L	14	19	44	
		F	14	30		
77 Feb. 21 Bat.	I	e	16	9	35	
		i	16	10	54	
		F	16	17		
78 ,, 23 Bat.	I	e	0	31	23	
		i	0	37	59	
		i	0	38	44	
		F	0	40		
	Med. I	P	0	(38)		
		i	0	39	23	
		L	1	3		21
		F	1	26		
79 ,, 23 Bat.	I	e	7	40	11	
		i	7	41	10	
		F	7	47		
80 ,, 23 Bat.	I	e	20	20	46	
		e	20	28	10	
		F	20	36		
81 ,, 26 Bat.	I _r	P	11	34	50	1860
		iS	11	37	57	
		F	11	48		

starting during changing papers.

March.

82 March 1 Med.	I	eP	1	9	39	
		i	1	9	59	
		i	1	10	16	
		F	1	14		
83 ,, 2 Bat.	I _v	iP	17	3	2	370 dilatation.
		iS	17	3	44	
		F	17	8		
	Mal. I _v	iP	17	2	52	300
		iS	17	3	26	
		F	17	4	50	
84 ,, 2 Bat.	I	e	14	58	24	NE Tapanoeli and Sumatra's Westkust.
		i	15	0	8	
		F	15	5		
	Med. II _v	P	14	54	49	320
		i	14	55	55	
		iS	14	55	25	
		F	15	13		
85 ,, 3 Bat.	I _v	i	9	31	9	160?
		F	9	35		
	Mal. I _v	P	9	30	38	
		S?	9	30	56	
		F	9	32		

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86	March	4	Med.	I _v	eP	12	18	48	400	
					S	12	19	33		
					F	12	26			
-	,,	4	Amb.	III _d	iP	21	15	53	70	NE Amboina.
					iS	21	16	1		off.
87	,,	5	Bat.	I _v	iP _v	21	3	54	150	dilatation. Bantam (W. Java).
					P	21	3	55		
					iS	21	4	11		
					F	21	7			
88	,,	6	Bat.	II _v	iP	6	21	13	130	NE; dilatation.
					iS	6	21	38		Bantam (W. Java).
					F	6	32			
			Mal.	II _v	i	6	21	16	230	
					iP	6	21	18		
					iS	6	21	44		
					F	6	26			
89	,,	6	Med.	II	P	21	53	23		
					i	21	57	9		
					i	22	58	23		
					F	23	10			
90	,,	8	Bat.	I	e	3	21	1		
					F	14	15	4		
			Amb.	I	i	3	16	41		
					i	3	18	2		
					F	3	36			
			Med.	I	e	3	21,4			
					e	3	27	42		
					F	3	39			
91	,,	8	Amb.	I	i	18	10	4		
					i	18	17	53		
					L	18	33		175	
					F	18	42			
92	,,	8	Amb.	I _v	P	21	14	37	(40)	
					iS	21	14	41		
					F	21	18			
93	,,	11	Mal.	I _v	iP	11	44	11	100	Priangan (W. Java).
					iS	11	44	23		
					F	11	45	33		
94	,,	13	Bat.	I _v	i	14	15	4	130	NNE; dilatation.
					iP	14	15	6		Priangan (W. Java).
					iS	14	15	21		
					i	14	16	29		
					F	14	20			
			Mal.	III _v	iP	14	14	51	85	
					iS	14	15	1		
					F	14	17	51		
95	,,	13	Amb.	I _v	iP	18	10	22	100	
					iS	18	10	34		
					F	18	17			

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96	March 13	Amb.	I _v	P	18 23 52	90
				iS	18 24 3	
				F	18 26	
97	,,	14 Bat.	I	e	23 3 2	
				i	23 9 4	
				F	23 25	
98	,,	15 Bat.	I	i _v	4 40 1	dilatation.
				i	4 40 2	
				i	4 41 41	
				i	4 46 16	
				F	5 5	
		Med.	I	iEW	4 40 39	
				i	4 47 23	
				F	5 25	
		Amb.	I	i	4 37 12	
				F	4 55	
99	,,	18 Bat.	I	i	5 24 10	
				i	5 30 28	
				F	6 2	
		Med.	I _r	P	5 23 51	4700
				S	5 30 7	
				i	5 35 38	
				i	5 36 21	
				F	6 30	
100	,,	19 Bat.	I	i _v	11 8 2	dilatation.
				i	11 8 5	
				i	11 14 40	
				F	11 31	
		Med.	I	P	11 9 1	
				i	11 15 48	
				L	11 26 17	22
				F	11 55	
		Amb.	I _r	iP	11 5 24	3870
				iS	11 10 52	
				L	11 17 20	20
				F	11 37	
101	,,	19 Amb.	I	i	23 15 56	
				F	23 30	
102	,,	20 Med.	II _v	i	0 21 45	170 Tapanoeli and Oostkust van Sumatra.
				iP	0 21 48	
				iS	0 22 8	
				F	0 31	
103	,,	20 Med.	I _v	eP	13 54 36	520
				S	13 55 33	
				F	14 7	
104	,,	24 Med.	I	e	16 3 5	
				i	16 13 38	
				i	16 17 9	
				F	16 43	

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105	March 25	Amb.	I	iP	23	34	57		
				i	23	45	23		
				F	23	56			
106	,,	26 Bat.	I	e	0	9	37		
				e	0	16	0		
				i	0	25	48		
				L	0	53		27	
				M	0	58	26	15	
				M	1	4	30	18	
				F	1	10			
		Med.	I	e	0	11	17		
				L	0	43		33	
				L	0	46	11	27	
				M	0	51	15	17	
				F	1	25			
107	,,	26 Bat.	III _r	iP _v	9	57	11		2650 dilatation.
				iP	9	57	12		ESE
				iS	10	1	32		Moluccas.
				L _v	10	5	38	16	
				F	10	59			
		Mal.	II _r	iP	9	57	7		2430
				iS	10	1	1		
				F	10	14			
		Med.	II _r	iP	9	55	2		4100
				i	9	56	18		
				iS	10	0	41		
				i	10	3	15		
				F	11	25			
		Amb.	III _d	iP	9	48	0	off.	time uncertain.
				F	10	55			
108	,,	26 Amb.	II _v	iP	10	57	45	(40)	
				iS	10	57	49		
				F	11	9			
109	,,	26 Amb.	I _v	eP	11	56	24	(40)	
				iS	11	56	29		
				F	11	57			
110	,,	26 Amb.	I _v	eP	12	28	58	70	
				S	12	29	6		
				F	12	31	11		
111	,,	26 Amb.	I _v	P	12	41	58	85	
				S	12	42	8		
				F	12	51			
112	,,	26 Amb.	II _v	iP	13	26	28	-	in minute eclipse.
				iS	13	26,6			
				F					
113	,,	26 Amb.	I _v	eP	16	41	3	80	
				iS	16	41	12		
				F	16	46			

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114	March 27	Bat.	I	iP _V	0 52 32		Compression.
				P	0 52 33		
				i	0 53 17		
				i	0 54 48		
				F	1 5		
		S.L.	I _V	P	0 52 25	250	
				S	0 52 53		
				F	0 55		
115	,,	27 Med.	I	P	8 47 11		
				i	8 56 18		
				i	8 56 57		
				F	9 11		
116	,,	27 Amb.	I _V	P	9 29 20	60	
				iS	9 29 27		
				F	9 35		
117	,,	27 Amb.	II _V	P	19 33 24	60	
				S	19 33 31		
				F	19 50		
118	,,	28 Bat.	III _V	iP _V	0 37 41	850	compression.
				iP	0 37 42		WNW.
				iS	0 39 13		
				F	1 48		
		Mal.	III _V	i	0 37 48	600	
				iP	0 37 51		
				iS	0 38 56		
				F	0 56		
		Med.	II	eP	0 38 6		
				i	0 40 29		
				i	0 42 10		
				F	2 25		
		S.L.	II	e	0 37 50		
				i	0 42 0		
				F	0 56		
119	,,	28 Amb.	I _V	iP	13 23 14	90	
				iS	13 23 25		
				F	13 32		
120	,,	29 Amb.	I _V	P	3 18 41	60	
				iS	3 18 48		
				F	3 23		
121	,,	29 Amb.	I _V	P	18 43,5		in minute eclipse.
				iS	18 43 44		
				F	19 1		
122	,,	29 Med.	I _V	eP	20 0 4	440	
				eS	20 0 53		
				F	20 3		
123	,,	30 Amb.	I _V	eP	7 59 49	50	
				iS	7 59 55		
				F	8 3		
124	,,	30 Amb.	I _V	P	9 2 1	40	
				iS	9 2 6		
				F	9 8		

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125 March 30 Bat. I i 15 10 10
i 15 16 55
F 15 24
Amb. I i 15 7 11
i 15 12 19
F 15 22
Med. I e 15 8 39
i 15 17 16
i 15 17 38
F 15 31

126 ,, 30 Bat. II_d iP_v 17 30 37
i 17 30 38
iP 17 30 39
iS 17 30 56
F 17 42
Mal. III_d P 17 30 28
iS 17 30 44
F 17 35

150 dilatation.
NNE. West-Java.

140 SSW.

127 ,, 31 Amb. I_v P 4 55 5
iS 4 55 9
F 5 2

(40)

128 ,, 31 Amb. I_v P 12 20 50
iS 12 20 58
F 12 26

70

129 ,, 31 Amb. II_v iP 14 40 13
iS 14 40 22
F 14 52

80

Note. Medan, March 24-31, time indications uncertain.

Royal Magnetical and Meteorological Observatory

Batavia, Java.

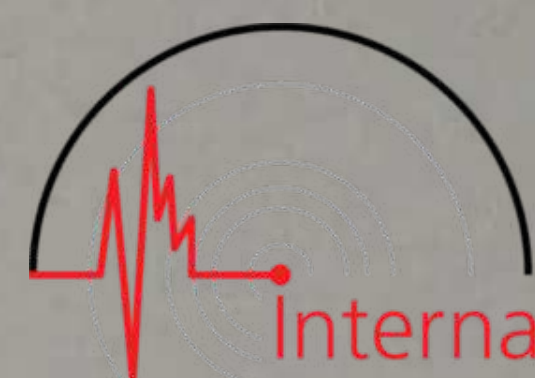
Seismological Bulletin 1932.

April.

					h	m	s	sec.	km		
130	Apr.	1	Bat.	II _v	i _v	7	57	27		120	dilatation.
					i	7	57	33			E
					iP	7	57	37			ESE
					iS	7	57	54			
					F	8	11				
			Mal.	I _v	i	7	57	44			
					S?	7	58,5				
					F	8	3				
131	,,	1	Mal.	I _v	P	13	12	18		110	
					iS	13	12	31			
					F	13	13				
132	,,	2	Mal.	I _v	P	6	29	57		80	
					iS	6	30	6			
					F	6	31				
133	,,	4	Amb.	I _r	iP	19	22	53		3410	dilatation.
					iS	19	27	53			
					F	19	36				
			Bat.	I _r	P	19	24	35		4790	
					iS	19	30	56			
					F	19	44				
			Med.	I _r	P	19	25	32		4640	
					S	19	31	44			
					F	19	58				
134	,,	4	Amb.	I _v	P	22	21	13		80	
					iS	22	21	23			
					F	22	27				
135	,,	5	Med.	I	e	17	20	23			
					i	17	21	17			
					i	17	22	36			
					F	17	32				
136	,,	10	Amb.	I _v	P	9	31	27		130	
					S	9	31	42			
					F	9	35				
137	,,	10	Mal.	II _v	P	9	33	19		80	
					iS	9	33	28			
					F	9	35				
138	,,	12	Mal.	I _v	P	13	58	4		180	
					S	13	58	25			
					F	14	1				
			Bat.	I _v	iP _v	13	58	4		190	dilatation.
					iP	13	58	5			NNW
					S	13	58	27			
					F	14	4				

Batavia 1932.

139	Apr. 12 ,, 13	Amb.	I	i i L F	23 57 45 0 3 35 0 6 0 14	20.5	
		Bat.	I	i _w i _N F	0 0 52 0 7 48 0 20		
		Med.	I	i F	0 3 58 0 21		
140	,, 13	Amb.	I _v	P iS F	0 4 47 0 4 50 0 6		overlapped by No.139.
141	,, 13	Amb.	IIIId	iP F	3 59 11 4 35		off; azimuth N35,9°W. on: 4 ^h 4 ^m , felt in Am- boina.
		Mal.	I _r	P S F	4 3 46 4 7 37 4 10	2390	
		Bat.	I _r	P S F	4 3 54 4 8 10 4 31	2740	
142	,, 13	Amb.	I _v	P iS F	4 31 1 4 31 9 4 32	70	overlapped by No.141.
143	,, 13	Amb.	I _v	P S F	4 51 49 4 51 56 4 53	60	
144	,, 13	Amb.	I _v	eP S F	4 55 41 4 55 48 4 56,8	60	
145	,, 13	Amb.	I _v	P iS F	5 0 57 5 1 4 5 2	70	
146	,, 13	Amb.	IIId	iP iS F	9 57 42 9 57 48 10 10	50	felt in Amboina.
147	,, 14	Amb.	I	e i F	11 33 30 11 35 15 11 50		
		Bat.	I	e F	11 36 17 11 53		
148	,, 14	Bat.	I _v	iP iS F	12 27 23 12 28 6 12 33	380	S.Sumatra.
149	,, 14	Amb.	II _v	iP S F	17 0 20 17 0.4 17 13		SW. in minute eclipse.



Batavia 1932.

150	Apr. 17	Bat.	I	i	1 7 15		
				i	1 11 12		
				F	1 20		
		Med.	I	i	1 8 18		
				F	1 19		
151	,, 17	Amb.	Iv	P	10 51 45	70	
				iS	10 51 53		
				F	10 55		
152	,, 18	Amb.	Iv	P	4 23 28	60	
				iS	4 23 35		
				F	4 25		
153	,, 18	Amb.	IIIId	i	4 50 8		felt in Amboina.
				iP	4 50 10		
				iS	4 50 14		
		Bat.	I	P	4 54 56	3830?	off; on: 8 ^h 41 ^m .
				S	5 0 15		
				F	5 14		
154	,, 18	Amb.	Iv	P	11 30 27	80	
				iS	11 30 37		
				F	11 33		
155	,, 20	Med.	Iv	eP	8 36 59	280	
				S	8 37 31		
				F	8 45		
156	,, 21	Amb.	IIv	P	9 31 39	100	
				iS	9 31 51		
				F	9 41		
157	,, 22	Mal.	Iv	P	4 41 8	160	
				S	4 41 27		
				F	4 43		
158	,, 22	Bat.	IIIv	iPv	4 59 7	380	compression; West-
				iP	4 59 9		WNW. Java.
				i	4 59 22		
				iS _S	4 59 52		
				iS _{NE}	4 59 59		
				F	5 34		
		Mal.	IIv	P	4 59 22	530	
				i	4 59 33		
				S	5 0 20		
				F	5 11		
		Med.	IIr	Pv	5 1 25	1270	
				i	5 1 59		
				S	5 3 38		
				iEW	5 4 49		
				F	5 58		

Batavia 1932.

159	Apr.	24	Amb.	I _v	P	6	20	19	360	
					i	6	20	23		
					S	6	21	0		
					F	6	23			
160	,,	26	Amb.	I _v	P	2	37	53	80	
					iS	2	38	7		
					F	2	42			
161	,,	26	Med.	I	eP	11	14	6		
					i	11	14	41		
					F	11	29			
			Bat.	I	e	11	21	10		
					F	11	28			
162	,,	27	Amb.	I _v	P	12	9	39	160	
					iS	12	9	57		
					F	12	15			
163	,,	27	Bat.	I _v	P	17	47	12	170	
					S	17	47	32		
					F	17	50			
164	,,	28	Mal.	I _v	P	18	2	25	120	E. Priangan (W. Java).
					iS	18	2	39		
					F	18	3,7			
165	,,	29	Med.	I	P _w	17	36	34		
					i	17	37	37		
					F	17	41			
			Bat.	I	i	17	42	51		
					F	18	0			
<u>May.</u>										
166	May	2	Amb.	I _v	P	8	22	57	50	
					iS	8	23	3		
					F	8	24			
167	,,	2	Amb.	I _v	iP	21	42	15	40	
					iS	21	42	19		
					F	21	43			
168	,,	4	Amb.	II _v	P	5	6	34	640	SE. Boeol (N. Celebes).
					iS	5	7	43		
					F	5	15			
			Bat.	I	i	5	8	57		
					i	5	12	4		
					F	5	18			
			Med.	I	e	5	10	43		
					i	5	14	21		
					F	5	24			
169	,,	6	Amb.	I _v	P	5	36	27	600?	N. Celebes.
					S?	5	37	32		
					F	5	48			

Batavia 1932.

170	May	8	Mal.	I _v	P	8	47	8	290	
					iS	8	47	41		
					F	8	50			
			Bat.	I _v	iP _v	8	47	41		dilatation.
					eP	8	47	42	260	
					iS	8	48	11		
					F	8	55			
171	,,	9	Amb.	I _v	iP	0	5	52	860	
					S	0	7	24		
					F	0	11			
172	,,	9	Amb.	II _v	iP	0	52	3	70	
					iS	0	52	11		
					F	1	1			
173	,,	10	Amb.	II _v	iP	14	24	17	800	NW.
					S?	14	25	43		
					F	14	44			
			Bat.	I _r	eP	14	27	40	2090	
					S?	14	31	6		
					F	14	44			
			Med.	I _r	e	14	28	13		
					i	14	33	12		
					F	14	48			
174	,,	12	Amb.	II _v	P	6	9	0	570	N.Celebes and Ternate.
					iS	6	10	2		
					F	6	23			
			Mal.	I _r	eP	6	12	31		
					F	6	18			
			Bat.	I _r	P	6	12	32	2470	
					i _w	6	15	41		
					iSN	6	16	29		
					F	6	30			
			Med.	I _r	iP	6	13	40		
					F	6	40			
175	,,	12	Bat.	I _v	iP _v	12	54	5	480	WNW;compression.
					iP	12	54	7		
					i _s	12	54	41		
					iS	12	55	0		
					F	13	7			
			Mal.	I _v	P	12	54	25		
					F	12	56,8			
			Med.	I _v	e	13	0	38		
					F	13	7			
176	,,	12	Amb.	I _v	P	13	12	47	130	
					iS	13	13	2		
					F	13	15			
177	,,	13	Amb.	III _d	iP	4	30	43	100	NW.
					iS	4	30	55		off;on:9h30m.
178	,,	14	Amb.	III _d	iP	13	21	8		SE(dilat.).
					off	13	21	14		on:13h35m.
					L	14	16		33	destructive in Minahasa
					L	14	41	39	70	and Ternate.
					F	15	25			

Batavia-Observatory; Special Bulletin.

Earthquake of May 14, 1932, 13^h 10^m 44^s; 0°5' N, 126°0' E.
destructive in Minahasa (N. Celebes) and Ternate.
(localization based on P-waves only; Batavia Time Tables 1932).



	dist.	TP obs.	PO-C	TS obs.	SO-C
Amboina	4.9°	0 ^m 24 ^s	+ 7 ^s	0 ^m 30	+15 ^s
Palau	11.0	2 59	+15	9 33	+320
Manila	15.0	3 57	+18	6 54	+25
Malabar	19.9	4 58	+18	8 36	+18
Batavia	20.3	4 55	+10	9 22	+58
Hongkong	24.7	5 36	+ 1	9 31	-20
Medan	27.5	5 9	-55	-	-
Phu Lien	27.8	6 6	- 1	10 37	-10
Zi-Ka-Wei	31.0	6 37	0	11 38	- 1
Kôti	33.8	7 2	0	12 22	- 2
Perth	33.9	7 5	+ 2	-	-
Osaka	35.3	7 12	- 4	12 52	+ 6
Adelaide	37.3	8 26	+54	15 26	+132
Chiu Feng	40.7	7 59	0	14 12	+ 5
Riverview	41.7	8 6	- 1	14 25	+ 7
Sydney	41.7	8 4	- 3	14 22	+ 4
Melbourne	42.2	8 11	0	14 20	- 6
Bombay	55.7	9 53	+ 1	17 15	-19
Arapuni	59.7	10 16	- 4	18 26	- 1
Christchurch	60.5	10 29	+ 3	18 31	- 7
Wellington	60.7	10 31	+ 4	18 36	- 4
Apia	63.2	10 45	+ 1	19 10	- 1
Honolulu	76.7	12 15	+ 9	21 46	- 2
Tananarive	79.4	12 24	+ 3	22 16	- 1
Ksara	89.8	13 22	+ 7	23 53	-11
Helwan	93.8	13 33	- 2	-	-
Sitka	94.3	13 49	+12	24 48	+ 2

	dist.	TP	obs.	P0-C	TS	obs.	S0-C
Wien	102.5	14	15	-1	23	10	-98 ² / ₁
Hamburg	104.7	14	24	-2	24	58	+ 4 ² / ₁
Göttingen	105.4	14	29	0	25	7	+ 7 ² / ₁
Stuttgart	106.9	14	36	0	26	33	+ 8
Firenze	107.2	14	31	-6	-	-	-
Strasbourg	107.8	14	36	-4	25	19	+ 7 ² / ₁
Grenoble	109.5	14	57	+9	25	21	+ 3 ² / ₁
Besançon	109.5	14	53	+5	25	31	+ 5 ² / ₁
Pasadena	110.8	14	52	-1	25	23	- 1 ² / ₁
Paris	110.9	14	53	-1	25	48	+24 ² / ₁
Kew	111.2	14	54	-1	-	-	-
Marseille	111.4	15	8	+12	-	-	-
Barcelona	114.3	15	13	+6	25	55	+19 ² / ₁
Bagnères d.B.	114.8	15	22	+13	25	48	+21 ² / ₁
Algers	115.5	15	18	+6	-	-	-
Tucson	117.5	15	6	-14	-	-	-
Denver	118.6	P'19	1	+1 ¹ / ₁	-	-	-
S.Fernando	122.4	15	40	0 ¹ / ₁	27	42	+96 ² / ₁
Chicago	127.9	P'19	27	+10 ¹ / ₁	-	-	-
Florissant	128.4	16	24	+16 ¹ / ₁	26	16	- 8 ² / ₁
St.Louis	128.9	16	24	+14 ¹ / ₁	26	16	-11 ² / ₁
Ottawa	130.2	P'19	29	+9 ¹ / ₁	26	56	+26 ² / ₁
Buffalo	131.2	16	34	+14 ¹ / ₁	-	-	-
Fordham	134.9	16	53	+16 ¹ / ₁	-	-	-
Georgetown	135.3	16	54	+16 ¹ / ₁	-	-	-
La Plata	145.4	19	55	+9 ¹ / ₁	-	-	-
San Juan	157.7	P'20	16	+9 ¹ / ₁	27	16	- 2 ² / ₁

¹/₁ ²/₁ Gutenberg, Handbuch der Geophysik IV p.216.

²/₁ S_CP_CS.

Batavia 1932.

		Bat.	III _r	iP _{1v}	13	15	38	2280?	WSW;dilatation.
				iP ₁	13	15	39		
				iP _{2v}	13	16	24		
				iP _{2NS}	13	16	28		
				S _{2NS?}	13	20	6		off.
				F	15	55			
		Mal.	III _r	iP ₁	13	15	42	2000?	
				iP ₂	13	16	1		
				iSEW?	13	19	20		
				F	14	13			
		Med.	III _r	iP ₁	13	15	53		
				i	13	16	0		NS.comp.off.13 ^h 24 ^m .
				iP ₂	13	16	48		
				F	14	28			
		S.L.	III _r	P ₁	13	16	2	2340	
				P ₂	13	16	45		
				S	13	19	51		
				F	14	7			
179	May 17	Amb.	I _v	eP	5	19	31	290	
				S	5	20	4		
				F	5	36			
180	,, 17	Bat.	I _r	P	12	58	20	1730	East-Java,Bali and Lom- bok.
				S	13	1	16		
				F	13	13			
		Mal.	I _v	iP	12	58	29	830	
				iS	12	59	58		
				F	13	2			
		Med.	I _r	P	13	0	3	3300	NW.
				iS	13	4	56		
				F	13	24			
181	,, 17	Amb.	I	i	17	25	26		
				F	17	27			
182	,, 17	Amb.	I _v	eP	17	31	35	510	N.Celebes.
				eS	17	32	31		
				F	17	44			
		Bat.	I	e	17	35	13		
				F	17	46			
183	,, 17	Amb.	I _v	P	22	23	20	480	N.Celebes.
				eS	22	24	13		
				F	22	34			
184	,, 18	Bat.	I	i	18	59	38		
				i	19	0	37		
				i	19	7	23		
				i	19	10	0		
				F	19	23			
		Med.	I	e	19	1			
				i	19	9	33		
				F	20	8			
185	,, 18	Amb.	II _v	iP	21	36	17		
				F	21	43			

Batavia 1932.

186	May 18	Med.	Iv	P	23 15 8	380	
				S	23 15 51		
				F	23 25		
187	,, 19	Amb.	Iv	P	1 21 26	490	
				iS	1 21 30		
				F	1 24		
188	,, 19	Amb.	Iv	iP	22 27 44	100	
				iS	22 27 56		
				F	22 36		
189	,, 19	Amb.	Iv	P	22 38 16	90	
				S	22 38 26		
				F	22 49		
190	,, 20	Amb.	Iv	P	2 47 48	90	
				iS	2 47 59		
				F	2 51		
191	,, 20	Amb.	Iv	eP	7 15 24	790?	
				S?	7 16 49		
				F	7 28		
192	,, 20	Amb.	Iv	iP	12 57 9	40	
				iS	12 57 14		
				F	13 0		
193	,, 21	Bat.	IIu	i	10 30 6		compression.
				i	10 30 9		
				i	10 30 52		
				i	10 31 29		
				i	10 39 7		
				i	10 42 8		
				L	11 34 32	28.5	
				L	11 39 1	81.5	
				M	11 52 22	25.3	
				F	12 2		
		Med.	Iu	i	10 30 14		
				L	11 29	34	
				L	11 31 25	42	
				M	11 35 45	30	
				L	12 0	18.5	
				F	12 14		
		Amb.	I	i	10 29 30		
				i	10 32,7		in minute eclipse.
				F	10 57		
194	,, 21	Bat.	IIIv	PEW	21 39 49	170	compression. S. Sumatra
				iS	21 40 9		and W. Java.
		Mal.	IIv	iP	21 40 3	260	off; on: 22h19m.
				iS	21 40 30		
				F	21 48		
		Med.	I	iP	21 41 15		
				F	22 3		
195	,, 22	Bat.	I	i	11 41 21		
				i	11 50 13		
				i	11 51 6		
				F	12 3		

Batavia 1932.

196	May 23	Med.	Iv	P	18 24 13
				S	18 25 15
				F	18 38
197	,, 26	Mal.	Iv	iP	0 23 22
				iS	0 23 31
				F	0 26
		Bat.	Iv	iP	0 23 34
				iS	0 23 58
				i	0 24 57
				F	0 28
198	,, 26	Med.	I	e	5 17 59
				i	5 23 45
				F	5 45
		Bat.	I	eNS	5 20 0
				iEW	5 29 59
				i	5 31 57
				F	5 41
199	,, 26	Amb.	IIu	iP1	16 17 59
				iP2	16 18 10
				iS	16 24 54
				F	16 49
		Mal.	IIu	P1	16 19 58
				iP2	16 20 9
				S	16 28 24
				iS	16 28 29
				F	16 34
		Bat.	IIIu	ePv	16 19 57
				iPv	16 20 0
				iP1	16 20 3
				iPv	16 20 12
				iP2	16 20 14
				iN	16 20 58
				iSv	16 28 39
				iS	16 28 40
				Lv	16 36 51
				F	17 35
		Med.	IIIu	iP1	16 21 4
				iP2	16 21 14
				iS	16 30 39
				F	17 51
200	,, 26	Bat.	I	lv	16 47 47
				lv	16 48 2
				i	16 48 2
201	,, 26	Amb.	Iv	P	20 31 24
				S	20 32 24
				F	20 38

570

30 E.Priangan(W.Java).

210 N;dilatation.

two shocks.

 dilatation.
NW.
dilatation.
NW.

28

overlapped by 199.

550 N.Celebes.

Batavia 1932.

					<i>h</i>	<i>m</i>	<i>s</i>	<i>sec.</i>	<i>km</i>
202	May 26	Amb.	I _u	P	22	30	8		5250
				S	22	36	58		
				i	22	37	8		
				F	22	44			
		Bat.	I _u	e	22	32	19		7050
				iS	22	40	48		
				F	22	56			
		Med.	I _u	eP	22	33	52		
				i	22	42	51		
				i	22	43	34		
				F	22	50			
203	,, 27	Amb.	I	i	0	37	57		
				F	0	41			
204	,, 27	Med.	I	eP	1	41	23		
				i	1	50	28		
				i	1	51	16		
				F	2	6			
205	,, 27	Bat.	I	i	12	49	36		
				i _w	12	49	58		
				i	12	55	28		
				F	13	6			
206	,, 28	Med.	I	e	2	29	56		
				F	3	14			
		Bat.	I	e	2	29	10		
				F	2	45			
207	,, 29	Bat.	I _v	P	18	51	21		670
				S	18	52	33		
				F	18	56			
208	,, 31	Amb.	I _v	P	9	19	43		60
				iS	9	19	50		
				F	9	23			
209	,, 31	Amb.	I _v	P	9	33	31		50
				iS	9	33	37		
				F	9	35			
210	,, 31	Med.	I _v	eP	12	5	14		190
				iS	12	5	36		
				F	12	10			

June.

211	June 2	Amb.	I _v	eP	15	50	46		70
				iS	15	50	54		
				F	15	52			
212	,, 2	Amb.	I _v	P	18	30	31		270
				iS	18	31	2		
				F	18	49			
213	,, 3	Amb.	II _u	eP	10	54	47		
				i	10	57	23		
				L	11	53	38	25	
				L	12	29	14	36	
				M	12	38	14	22	
				M	12	51	43	19.5	
				F	13	19			

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					h	m	s	sec.	km		
	June	3	Bat.	IIu	P _v	10	56	35			faint compression.
					P	10	56	38			dilatation.
					iP _v	10	56	55			
					iP	10	57	3			faint dilatation.
					iP _v	11	30	24			
					L	11	45.6	44			
					M	11	49	48	23.0		amplitudes E 461 μ ; N 185 μ .
			Mal.	Iu	F	13	9				
					e	10	56	49			
					i	10	57	6			
					eL	11	52				
			Med.	IIu	F	12	42				
					P	10	56	56			
					iP	10	57	5			
					L	11	49	21	25		
					M	12	7	27	17		
					F	13	9				
214	,,	5	Med.	Iv	i	1	54	57		520?	
					i	1	55	11			
					S?	1	55	54			
					F	2	4				
215	,,	5	Amb.	I	i	12	57	9			times uncertain.
					i	13	3	16			
					F	13	6				
216	,,	6	Amb.	I _r	eP?	6	28	34		1370?	
					S	6	30	57			
					F	6	35				
			Mal.	I _r	P	6	30	8			
					iP	6	30	13		1270	
					i	6	32	22			
					iS	6	32	26			
					F	6	36				
			Bat.	I _r	iP	6	30	17		1320	
					iS	6	32	35			
					F	6	44				
217	,,	8	Med.	I	i	15	0	16			
					i	15	0	21			
					F	15	26				
			Bat.	I _r	iP _v	15	0	44		2670	
					P	15	0	46			
					iS	15	4	57			
					F	15	22				NE.
218	,,	10	Amb.	Iv	P	20	23	27		950	
					S	20	25	9			
					F	20	40				
			Med.	I	i	20	27,1				in minute eclipse.
					i	20	28	23			
					i	20	31	50			
					i	20	34	3			
					i	20	38	19			
					F	20	47				
			Bat.	II _r	P _v	20	27	21		2640	faint dilatation.
					P	20	27	23			
					S?	20	31	32			
					F	20	44				



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				h	m	s	sec.	km	
219	June 11	Amb.	I _v	iP	4	31	53	(60)	
				S	4	32.0			in minute eclipse.
				F	4	33.7			
220	,, 11	Amb.	I _v	P	4	41	48	60	
				iS	4	41	55		
				F	4	46			
221	,, 13	Amb.	I _v	P	16	49	55	80	
				iS	16	50	5		
				F	16	54			
222	,, 13	Amb.	I _r	P	21	1,3		(2790)	no minute marks.
				S	21	5,6			
				F	21	12			
		Med.	II _r	P	21	2	57	4690	
				S	21	9	12		
				iS	21	18	18		
				F	21	36			
		Bat.	I _r	eP	21	4	16	4500	
				S	21	10	20		
				F	21	22			
223	,, 14	Amb.	I	P	6	4	34		
				F	6	20			
		Med.	I	i	6	5	11		
				i	6	5	37		
				F	6	33			
		Bat.	I	P	6	6	27		compression.
				i	6	6	48		
				i	6	12	21		
				F	6	26			
224	,, 14	Med.	I	i	10	27	52		
				i	10	35	43		
				F	10	59			
225	,, 14	Amb.	I	i	11	25	19		
				i	11	29	39		
				F	11	33			
226	,, 15	Mal.	I _v	eP	7	48	26	300	
				S	7	49	0		
				F	7	51			
227	,, 16	Med.	III _d	iP	1	19	13		SSW.
				off	1	19	18		North Sumatra.
				on	1	24			
				F	2	11			
		Bat.	II _r	P	1	22	47	2000?	dilatation.
				P _v	1	22	56		
				S?	1	26	6		
				i	1	27	18		
				F	1	56			
		Amb.	I	eP	1	25	4		
				i	1	29	56		
				i	1	35	23		
				F	1	43			
228	,, 18	Bat.	I _v	eP	5	48	55		
				iS	4	49	44		
				F	5	56			
		Mal.	I _v	e	5	49	12		
				i	5	49	54		
				F	5	32			

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					h	m	s	sec.	km	
229	June 18	Amb.	I	P	10	31	34			
				i	10	33	41			
				i	10	34	52			
				eL	11	10		34		
				L	11	22		22.5		
				F	11	33				
		Bat.	II	i	10	22	18			azimuth E.
				iE	10	38	12			
				L	11	24.5		32		
				M	11	43.7		17.3		
				M	11	53.4		17.5		
				M	11	57.1		17.8		
				M	12	4.7		18.0		
				F	12	37				
		Mal.	I	i	10	32	21			
				i	10	32	31			
				eL	11	54.2		17		
				F	12	10				
		Med.	II	P	10	32	22			
				L	11	17		31		
				M	11	39.9		18.5		
				M	11	45.6		18.0		
				M	11	49.7		18.2		
				F	13	13				
230	,, 18	Amb.	I _v	iP	15	6	50		50	
				iS	15	6	56			
				F	15	10				
231	,, 18	Med.	III _v	P	17	36	13		550	N. Atjeh.
				iS	17	37	13			
				F	17	57				
		Bat.	I	i	17	44	14			
				F	17	56				
232	,, 20	Amb.	I _v	eP	18	49	41		170	
				iS	18	50	1			
				F	18	52				
233	,, 20	Amb.	I	i	19	11	29			
				i	19	18	48			
				F	19	30				
		Bat.	I	e	19	15	27			
				e	19	21	46			
				F	19	25				
		Med.	I	i	19	16	29			
				i	19	16	43			
				i	19	22	54			
				F	19	28				
234	,, 20	Mal.	I _v	eP	21	12	16		290	Central Java.
				iS	21	12	49			
				F	21	14.0				
		Bat.	I	eP	21	12	34			
				F	21	17				
235	,, 21	Med.	I	i	21	3	17			
				i	21	7	47			
				i	21	9	7			
				F	21	36				
236	,, 22	Bat.	I _u	e	13	19	43			
				i	13	21	11			
				eL	14	13	48	22.63		
				eL	14	25	28	18.0		
				F	14	45				



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			h m s			sec.	km		
		Med.	II _u	i	13	19	46		
				i	13	34	56		
				eL	14	17		22	
				M	14	27		38	
				M	14	33	8	18.5	
237	June 23	Amb.	I _v	P	3	20.7		(230)	P in hour eclipse.
				iS	3	21	10		
				F	3	25			
238	,, 23	Amb.	I _v	iP	9	44	11	50	
				iS	9	44	17		
				F	9	51			
239	,, 23	Amb.	I _v	P	9	53	18	60	
				iS	9	53	25		
				F	9	57			
240	,, 23	Amb.	III _d	iP	9	59	39	(60)	
				off	9	59	46		
				on	10	52			
		Bat.	E _r	P	10	4	20	2510	
				S	10	8	20		
241	,, 23	Amb.	I _v	P	14	13	26	70	
				iS	14	13	34		
				F	14	15			
242	,, 23	Amb.	II _v	P	15	14	48	70	
				iS	15	14	56		
				F	15	18			
243	,, 24	Amb.	I _v	P	12	37	38	50	
				iS	12	37	44		
				F	12	39	16		
244	,, 24	Amb.	III _v	iP	18	1	55	70	
				iS	18	2	3		
				F	18	6			
245	,, 24	Amb.	II _v	iP	23	50	15	70	
				iS	23	50	23		
				F	24	4			
246	,, 25	Bat.	I _v	eP	17	7	16	100	
				iS	17	7	28		
				F	17	11			
247	,, 26	Amb.	I _v	P	4	9	13	110	
				iS	4	9	26		
				F	4	20			
248	,, 27	Med.	II _v	iP	14	34	23	260	ESE.
				iS	14	34	53		
				F	14	42			
249	,, 28	Mal.	I _v	P	8	7	34	80	E.Priangan (W.Java).
				iS	8	7	44		
				F	8	9			
250	,, 28	Med.	I	eP	21	18	26		
				F	21	21			

	EW component			NS component			V component		
	V	T ₀	E	V	T ₀	E	V	T ₀	E
April	220	7.0	3.2	200	7.0	3.9	330	4.7	5.7
May	220	6.9	3.2	200	6.9	4.1	330	4.7	3.8
June	220	7.0	3.4	200	7.0	4.3	330	4.7	3.4
	θ_0 r_0		θ_0 r_0		θ_0 r_0		θ_0 r_0		
April	1.14	0.4	1.15	0.8	1.15	0.8			
May	1.12	0.5	1.10	0.7	1.16	0.7			
June	1.13	0.3	1.13	0.8	1.17	0.8			

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July.

					h	m	s	sec.	km	
251	July	1	Amb.	Iv	iP	10	10	2		
					S	10	10	47		
					F	10	28			
			Bat.	Ir	iPw	10	13	52	1940	
					iS	10	17	6		
					F	10	23			
252	,,	2	Amb.	IIv	iP	2	12	17	260	azimuth SSW.
					iS	2	12	47		
					F	2	39			
			Bat.	I	e	2	16	19		
					i	2	18	31		
					i	2	20	33		
					F	2	32			
			Med.	I	e	2	18	52		
					i	2	23	6		
					i	2	27	43		
					F	2	42			
253	,,	2	Mal.	Iv	P	3	43	54	240	
					i	3	44	6		
					iS	3	44	21		
					F	3	49			
			Bat.	Iv	P	3	44	16	280	
					iS	3	44	48		
					F	3	53			
254	,,	3	Med.	I	e	4	36	52		
					i	4	38	45		
					i	4	39	36		
					F	4	45			
255	,,	3	Med.	Iv	P	18	40	0	170	
					iS	18	40	20		
					F	18	44			
256	,,	4	Amb.	Iv	P	15	18	54	(40)	
					iS	15	18	58		
					F	15	23			
257	,,	5	Med.	IIr	P	9	55	11	1210	
					i	9	55	28		
					S	9	57	18		
					i	9	57	55		
					F	10	38			
258	,,	5	Bat.	IIv	iP	10	53	4	320	E; dilatation.
					iS	10	53	41		
					F	11	26			
			Mal.	Iv	P	10	53	16	760?	
					S?	10	54	38		
					F	11	3			
			S.L.	IIv	iP	10	53	14	160	
					S	10	53	32		
					F	11	9			

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						h	m	s	sec.	km	
259	July	5	S.L.	Iv	eP	11	11	30		190	
					S	11	11	52			
					F	11	13				
260	,,	5	Bat.	Iv	P	11	49	4		580	Benkoelen (S.Sumatra).
					S	11	50	7			
					F	11	56				
			S.L.	Iv	eP	11	48	46		230	
					S	11	49	10			
					F	11	50				
261	,,	5	S.L.	I	eP	14	14	8		150	
					S	14	14	25			
					F	14	15				
262	,,	5	Med.	I	e	17	34	30			
					i	17	37	42			
					F	17	46				
263	,,	5	Bat.	Iv	P	17	52	21		640	Benkoelen (S.Sumatra).
					S	17	53	30			
					F	17	56				
264	,,	5	Bat.	Iv	iPv	18	33	55			dilatation.
					P	18	33	57		320	
					iS	18	34	34			
					F	18	50				
			Mal.	Iv	eP	18	34	8		390	
					S	18	34	52			
					F	18	37				
			S.L.	IIv	iP	18	34	0		230	
					S	18	34	26			
					F	18	37				
265	,,	6	Med.	Iv	P	3	20	33		440	
					iS	3	21	23			
					F	3	31				
266	,,	6	Mal.	Iv	P	13	53	25		100	
					eS	13	53	37			
					F	13	55				
267	,,	9	Amb.	Iv	iP	8	14	38		120	
					iS	8	14	52			
					F	8	22				
268	,,	9	Amb.	Iv	iP	8	17	47		70	
					iS	8	17	55			
					F	in	265				
269	,,	9	Med.	I	e	12	32				
					i	12	32	37			
					F	12	38				
270	,,	9	Amb.	I	i	13	3	40			
					i	13	9	17			
					i	13	13	33			
					F	13	20				
			Bat.	I	e?	13	7				
					i	13	13	59			
					i	13	15	43			
					F	13	23				
			Med.	I	e	13	13	23			
					i	13	14	5			
					F	13	29				

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					h	m	s	sec.	km	
271	July	9	Mal.	I _v	P	13	24	35		Tjibitoe (Priangan, W. Java).
					iS	13	24	47		
			Bat.	I	F	13	26			
					i _v	13	24	58		
					F	13	27			
272	,,	9	Amb.	I _v	iP	20	26	4	970	
					S	20	27	48		
					F	20	35			
			Bat.	I	i	20	28	48		
					i	20	34	0		
					i	20	35	0		
					F	20	42			
			Med.	I	e	20	30			
					i	20	36	20		
					F	20	43			
273	,,	10	Amb.	III _d	iP	9	25	7	(40)	
					iS	9	25	11		
					off	9	25	18		
274	,,	11	Bat.	I	i	8	27	6		
					i	8	31	37		
					F	8	41			
275	,,	12	Med.	I _v	PE	7	35	49	240	
					S	7	36	16		
					F	7	41			
276	,,	14	Amb.	I _r	P	8	59	21	2750	
					S	9	3	38		
					F	9	13			
			Bat.	I	e	9	2			
					i	9	7	36		
					F	9	18			
			Med.	I _u	eP	9	2	48	6420	
					i	9	10	8		
					iS	9	10	44		
					F	9	25			
277	,,	14	Amb.	I _v	eP	9	1	20	50	
					iS	9	1	26		
					F	in	274			
278	,,	15	Bat.	I _v	eP	8	23	32 32	750	
					iS	8	24	53		
					F	8	28			
279	,,	16	Med.	I _v	iP	12	50	26	250	
					iS	12	50	54		
					F	12	55			
280	,,	16	Amb.	I _v	P	12	59	52	170	
					S	13	0	12		
					F	13	4			
281	,,	16	Mal.	I _v	P	20	51	22	150	
					iS	20	51	39		
					F	20	53			
			Bat.	I _v	iP _v	20	51	22	170	dilatation.
					PN	20	51	24		
					iS	20	51	44		
					F	20	56			
282	,,	16	Bat.	I	e	21	10	18		
					i	21	13	14		
					F	21	19			

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					h	m	s	sec.	km	
283	July 18	Med.	I	P	5	6	8			no time eclipses.
				i	5	11	9			
				i	5	12	1			
				F	5	23				
		Bat.	I	i	5	7	14			
				i	5	12	18			
				F	5	22				
284	,,	19	Bat.	I	i	4	44	1		disturbed by street traffic.
				i	4	45	44			
				F	4	50				
285	,,	20	Amb.	I _u	eP	20	15	20	7050	
				iS	20	23	49			
				i	20	24	50			
				F	20	31				
		Bat.	I	i	20	17	13			
				i	20	23	18			
				i	20	25	8			
				i	20	26	29			
				i	20	27	35			
				F	20	37				
286	,,	21	Med.	I _v	iP	9	15	51	90	
				iS	9	16	2			
				F	9	20				
287	,,	21	Amb.	I _v	P	12	42	1	(360)	in minute eclipse.
				iS	12	43	49			
				F	13	8				
		Bat.	I	e	12	46	8			
				i	12	52	20			
				F	13	7				
		Med.	I	i	12	48	18			
				iNS	12	54	59			
				F	13	13				
288	,,	21	Mal.	II _v	iP	18	44	40	100	Priangan and Banjoemas (W. Java).
				iS	18	44	52			
				F	18	47				
		Bat.	I _v	P	18	44	59	230	dilatation.	
				iS	18	45	25			
				F	18	51				
289	,,	25	Bat.	I	o	8	33	11		
				i	8	33	56			
				i _v	8	34	10			faint compr, strong dilat.
				i	8	34	11			
				i	8	39	34			
				F	8	45				
290	,,	25	Bat.	I	i _v	9	32	33		faint compr, strong dilat.
				i	9	32	43			
				i	9	36	51			
				F	9	43				
291	,,	25	Mal.	I _v	P	22	17	0	240	
				iS	22	17	27			
				F	22	20				
		Bat.	I _v	P	22	17	23	260		
				iS	22	17	53			
				F	22	22				
292	,,	26	Mal.	I _v	eP	0	48	17	90	
				iS	0	48	28			
				F	0	50				



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					h	m	s	sec.	km	
293	July 27	Bat.	I _v	eP	4	34	47			Kroë (Benkoelen, S. Sumatra).
				i	4	35	36			
				i	4	36	17			
				F	4	41				
		S.L.	I _d	i	4	34	46			
				i	4	34	48			
				F	4	36				
294	,, 27	Amb.	II _v	iP	21	19	14		390	NW
				iS	21	19	58			
				F	21	48				
		Mal.	I _r	P	21	24	34		2430	
				eS	21	28	28			
				F	21	31				
		Bat.	I _r	iP _v	21	24	41		3560?	compression.
				iP	21	24	42			NE
				i	21	25	3			
				i _v	21	25	5			dilatation.
				i _v	21	25	8			strong compression.
				i _v	21	25	52			dilatation.
				i	21	25	58			
				S?	21	29	52			
				i	21	30	40			
				i	21	31	8			
				F	21	50				
295	,, 28	Amb.	I _v	P	23	15	54		350	
				S	23	16	34			
				F	23	29				
296	,, 29	Bat.	I _r	iP	21	2	33		2750?	compression.
				S?	21	6	50			
				F	21	23				
297	,, 29	Amb.	I _v	iP	23	0	46		(570)	SE; Manado and Ternate.
				iS	23	1,8				in minute eclipse.
				i	23	14	21			
				F	23	24				
298	,, 30	Bat.	I _v	eP	0	32	46		600?	
				eS?	0	33	51			
				i _v	0	34	15			
				F	0	41				
		S.L.	II _v	eP	0	32	27		210	
				S	0	32	51			
				F	0	37				
299	,, 30	Bat.	I _v	iP _v	4	53	59		170	compression.
				P	4	54	0			
				iS	4	54	20			
				F	4	58				
		Mal.	I _v	eP	4	54	8		200	
				iS	4	54	31			
				F	4	58				
		S.L.	I _v	eP	4	54	29		160	
				iS	4	54	48			
				F	4	56				
300	,, 30	Bat.	I _r	P	12	17	8		2930	Manado.
				eS	12	21	38			
				F	12	42				
301	,, 31	Amb.	I _v	iP	20	16	34		80	
				iS	20	16	43			
				F	20	23				

Batavia 1932.

August.
sec.

km

302	Aug.	1	Bat.	I	e	h	m	s	sec.	km	
					i	5	37	10			
					F	5	37	29			
					F	5	45				
303	,,	2	Amb.	I _v	iP	4	27	7		510	NW Manado and Tarcoena I. (N. Celebes).
					iS	4	28	3			
					F	4	44				
			Bat.	I _r	P _v	4	30	21		2460	
					P	4	30	23			
					S	4	34	17			
					eL _v	4	39	6			
					F	4	50				
304	,,	3	Amb.	I _v	P	8	17	34		60	
					iS	8	17	41			
					F	8	19				
305	,,	3	Amb.	I _v	eP	10	33	58		640	
					S	10	35	7			
					F	10	44				
306	,,	6	Mal.	I _v	eP	21	29	28		150	
					iS	21	29	45			
					F	21	31				
307	,,	8	Amb.	I _v	iP	6	10	5		50	probably NE.
					iS	6	10	11			
					F	6	14				
308	,,	10	Amb.	I _v	P	13	0	9		60	
					iS	13	0	16			
					F	13	2				
309	,,	11	Mal.	I _v	iP	11	50	50		580	
					iS	11	51	53			
					F	11	57				
			Bat.	I _v	iP	11	50	56		570	NE; compression.
					iS	11	51	58			NW.
					F	12	2				
			Med.	I _r	iP	11	52	28		1540	NW.
					iS	11	55	6			
					F	12	5				
310	,,	12	Med.	I	e	3	36	57			
					i	3	47	20			
					i	3	47	43			
					L	4	15				
					M	4	24				
					F	4	46				
			Bat.	I	e	3	38,4				
					i	3	49	9			
					i	3	49	25			
					F	3	55				
311	,,	14	Amb.	I	i	0	46	23			
					iE	0	46	56			
					i	0	48	20			
					F	0	56				
			Med.	I	i	0	51	21			
					i	0	52	24			
					i	0	57	26			
					F	1	9				

Batavia 1932.				h	m	s	35 800	km	
312	Aug. 14	Med.	III _r	iP	4 44	22		2500	azimuth WNW.
				iS	4 48	21			off: 4h49m27s; on: Aug. 15,
		Bat.	II _r	P _v	4 46	6		3610	0h29m.
				P	4 46	8			compression
				iP _v	4 46	9			NW
				iP	4 46	11			dilatation.
				S	4 51	18			SE.
				L _v	5 3	6	13		
				F	5 37				
		Mal.	I _r	eP	4 46	15		4020	
				i	4 47	50			
				iS	4 51	40			
				i	4 56	22			
				L	4 59		20		
				F	5 12				
		Amb.	II _r	iP	4 46	42		4790	
				iS	4 53	3			
				i	4 56	34			
				L	5 2		25.5		
				F	5 21				
313	,, 17	Bat.	II	iP	15 26	5			compression.
				i	15 26	26			
				i	15 27	18			
				F	15 40				
		Mal.	I	i	15 26	27			
				F	15 31				
		Med.	I	e	15 32	13			
				i	15 33	23			
				F	15 44				
314	,, 17	S.L.	I _v	P	22 28	3		250	
				iS	22 28	32			
				F	22 31				
315	,, 19	Bat.	I	e	4 4	14			East Java, Bali and Lom-
				i	4 6	33			bok.
				i	4 7	30			
				F	4 13				
316	,, 20	Bat.	I	e	2 16,5				
				F	2 25				
317	,, 20	S.L.	I _v	iP	23 37	24			
				iS	23 37	28			
				F	23 37,6				
318	,, 20	S.L.	I _v	iP	0 16	22			
				iS	0 16	26			
				F	0 16,7				
319	,, 21	Med.	I	i	4 21	52			
				i	4 26	36			
				F	5 3				
		Bat.	I	i	4 22	19			
				i	4 23	23			
				i	4 26	31			
				L	4 38	14	36		
				F	4 50				
320	,, 21	Bat.	I	eP	8 24	52			
				i	8 26	39			
				F	8 35				

Batavia 1932.

					h	m	s	sec	km
321	Aug. 21	Med.	I	i	19	2	58		
			eL	eL	19	15,0		21	
				F	19	26			
322	,, 22	Bat.	I	e	11	20	47		
				i	11	27	28		
				L	11	38,3		18	
				F	11	52			
		Med.	II	i	11	33	53		
				i	11	35	47		
				i	11	37	58		
				F	12	0			
323	,, 24	Med.	I	e	12	16	8		
				L	12	26		24	
				F	12	47			
		Bat.	I	e	12	16	22		
				i	12	21	2		
				F	12	30			
324	,, 25	Med.	I	e	6	14	31		
				i	6	14	43		
				F	6	18			
325	,, 29	Med.	I _v	eP	10	17	33		$\frac{1}{2} 40$
				iS	10	17	49		
				F	10	22			
326	,, 29	Bat.	I	i	10	27	3		
				i	10	27	45		
				F	10	32			
		Med.	I _r	P	10	27	15		2650
				S	10	31	25		
				F	10	42			
<u>September.</u>									
327	Sept. 1	Amb.	I _v	P	6	40,5			in minute eclipse.
				iS	6	40	44		
				F	6	43			
328	,, 3	Med.	I _u	P	12	8	42		5920
				iS	12	16	5		
				L	12	30		18	
				F	12	43			
		Bat.	I _u	P	12	8	53		6240
				i	12	9	55		
				iS	12	16	38		
				F	12	27			
329	,, 5	Amb.	I _v	P	21	56	6		120
				S	21	56	20		
				F	21	59			
330	,, 8	Amb.	I _v	eP	13	28	48		100
				S	13	29	0		
				F	13	34			
331	,, 9	Amb.	II _v	iP	6	46	56		240
				iS	6	47	23		
				F	7	9			
		Bat.	I _r	iPE	6	51	24		2960
				eS	6	55	56		
				F	7	8			
		Med.	I _r	e	6	52	55		3140
				S	6	57	38		
				F	7	16			

N 76° E; Laboeha, Batjan
(N. Moluccas).

Batavia 1932.

					m	h	s	sec	km	
332	Sept.	9	Amb.	IIIId	iP	13	39	8		off; destructive in N. Am.
			Mal.	Ir	e	17	43	52		boina. on: Sept 10, 1932
					i	17	44	6		
					i	17	44	25		
					i	17	47	46		
					L	17	52		20	
					F	17	59			
			Bat.	IIr	iP	13	43	59	2250	
					i	13	44	54		
					eS	13	47	38		
					i	13	49	19		
					F	14	19			
			Med.	IIr	Pw	13	45	19	3410	
					i	13	46	11		
					S	13	50	19		
					F	14	27			
333	,,	10	Amb.	Iv	P	0	43	36		Sept. 10-12 times not reliable.
					iS	0	43	40		
					F	0	45			
334	,,	10	,,	Iv	P	1	5	46		
					iS	1	5	50		
					F	1	6,4			
335	,,	10	,,	Iv	P	1	32	2	50	
					iS	1	32	8		
					F	1	34			
336	,,	10	,,	Iv	P	1	42	15	40	
					iS	1	42	20		
					F	1	43			
337	,,	10	,,	Iv	eP	1	43	58		
					iS	1	44	2		
					F	1	44,4			
338	,,	10	,,	Iv	eP	1	49	20	40	
					iS	1	49	25		
					F	1	51			
339	,,	10	,,	IIIId	iP	1	54	22	40	off; on: 2h1m during 6' qu.
					iS	1	54	27		
340	,,	10	,,	Iv	P	2	2	29		
					iS	2	2	31		
					F	2	4			
341	,,	10	,,	Iv	P	2	4	36		
					iS	2	4	39		
					F	2	5			
342	,,	10	,,	IIv	iP	2	6	39		
343	,,	10	,,	Iv	iP	2	9	9		
					iS	2	9	12		
					F	2	10			
344	,,	10	,,	Iv	i	2	14	52		
345	,,	10	,,	Iv	i	2	15	28		
					F	2	17			
346	,,	10	,,	IIv	iP	2	37	10		
					iS	2	37	11		
					F	2	39			



Batavia 1932.

					h	m	s	sec	km	
347	Sept.	10	Amb.	I _v P	2	40	28			
				iS	2	40	31			
				F	2	41				
348	,,	10	,,	II _d iP	2	46	1			
				iS	2	46	5			off; on: 2h48m.
349	,,	10	,,	I _v iP	2	49	51		50	
				iS	2	49	57			
350	,,	10	,,	I _v P	2	59	2			
				F	3	0				
351	,,	10	,,	I _v P	3	8	50		40	
				iS	3	8	55			
				F	3	11				
352	,,	10	,,	II _v iP	3	50	0			
				iS	3	50	2			
353	,,	10	,,	I _v i	3	55	1			
				F	3	56				
354	,,	10	,,	I _v P	4	7	27			
				iS	4	7	30			
				F	4	9				
355	,,	10	,,	I _v P	5	40	49			
				iS	5	40	51			
				F	5	42				
356	,,	10	,,	I _v P	5	43	36			
				iS	5	43	40			
				F	5	45				
357	,,	10	,,	I _v P	5	52	18			
				iS	5	52	22			
				F	5	55				
358	,,	10	,,	I _v P	6	12	53			
				iS	6	12	56			
				F	6	14				
359	,,	10	,,	I _v P	6	21	7			
				iS	6	21	10			
				F	6	23				
360	,,	10	,,	II _v iP	6	24	22			
				iS	6	24	25			
				F	6	27				
361	,,	10	,,	III _d off	6	45	2			
				off	6	45	4			on 6h53m during e'qu.
362	,,	10	,,	I _v P	9	15	19			
				iS	9	15	21			
				F	9	16				
363	,,	10	,,	I _v P	9	20	26			
				iS	9	20	30			
				F	9	22				
364	,,	10	,,	I _v iP	9	40	25			
				iS	9	40	28			
				F	9	43				
365	,,	10	,,	I _v iP	9	48	7			
				iS	9	48	9			
				F	9	49				

Batavia 1932.

					h	m	s	sec	km	
366	Sept.	10	Amb.	I _v	iP	10	31	39		
					iS	10	31	42		
					F	10	32			
367	,,	10	,,	I _v	P	10	58	(12)		in minute eclipse.
					iS	10	58	18		
					F	10	59			
368	,,	10	,,	I _v	iP	11	21	27		
					F	11	23			
369	,,	10	,,	I _v	P	12	25	(12)		in minute eclipse.
					iS	12	25	17		
					F	12	26			
370	,,	10	,,	I _v	P	12	47	0		
					iS	12	47	3		
					F	12	48			
371	,,	10	,,	I _v	P	13	24	25		
					iS	13	24	28		
					F	13	25			
372	,,	10	,,	II _v	iP	13	35	9		in minute eclipse.
					S	13	35	(12)		
					F	13	39			
373	,,	10	,,	I _v	iP	13	45	55		
					F	13	47			
374	,,	10	Med.	I _v	e	13	57	13		
					F	14	3			
375	,,	10	Amb.	I _v	P	14	7	55		
					iS	14	7	58		
					F	14	10			
376	,,	10	,,	III _d	iP	14	38	22		off; on: Sept. 11, 0 ^h 55 ^m .
					iS	14	38	26		
377	,,	10	Med.	I _v	eP	15	9	45	1700	
					S?	15	10	5		
					F	15	13			
378	,,	11	Amb.	I _v	P	2	1	27		
					iS	2	1	30		
					F	2	3			
379	,,	11	,,	I _v	P	2	4	31		
					S	2	4	35		
					F	2	6			
380	,,	11	,,	III _d	iP	4	8	44		off 4 ^h 55 ^m ; on 10 ^h 38 ^m .
381	,,	11	,,	I _v	P	12	29	31		
					iS	12	39	35		
					F	12	30			
382	,,	11	,,	I _v	P	12	44	20		
					iS	12	44	22		
					F	12	46			
383	,,	11	,,	I _v	P	14	45	(12)		in minute eclipse.
					iS	14	45	19		
					F	14	47			
384	,,	11	,,	I _v	i	19	30	18		
					F	19	32			

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					h	m	s	sec	km	
385	Sept. 11	Amb.	I _V	P	20	16	54			
				iS	20	16	57			
				F	20	18				
386	,, 11	,,	I _V	P	22	40	2		80	
				iS	22	40	11			
				F	22	41				
387	,, 12	,,	II _V	iP	1	31	28			azimuth NE.
				iS	1	31	32			
				F	1	36				
388	,, 12	,,	I _V	P	2	45	12			in minute eclipse.
				S	2	45	-			
				F	2	47				
389	,, 12	,,	II _V	iP	5	35	24			
				iS	5	35	27			
				F	5	41				
390	,, 12	,,	I _V	P	5	43	20		50	
				S	5	43	26			
				F	5	45				
391	,, 12	,,	I _V	P	5	51	36			
				F	5	52				
392	,, 12	,,	I _V	P	7	27	25			
				iS	7	27	28			
				F	7	29				
393	,, 12	,,	II _V	iP	9	47	18			
				S	9	47	23			
				F	9	49				
394	,, 12	Mal.	II _V	iP	17	41	41		110	Tjibitoe, Priangan, W. Ja- va.
				iS	17	41	54			
				F	17	45				
		Bat.	I _V	iP _V	17	41	52		190	dilatation.
				P _W	17	41	53			
				iS _N	17	42	15			
				F	17	48				
395	,, 12	Amb.	I _V	P	19	53	59			
				iS	19	53	57			
				F	19	55				
396	,, 12	Mal.	I _V	P	20	12	8		190	
				iS	20	12	30			
				F	20	16				
		Bat.	I _V	iP _{E,V}	20	12	20		300	compression.
				iS	20	12	54			
				i	20	14	1			
				F	20	21				
397	,, 13	Amb.	I _V	iP	5	37	45			
				iS	5	37	48			
398	,, 13	,,	I _V	iP	5	41	4			
				iS	5	41	8			
				F	5	42				
399	,, 13	S.L.	II _d	iP	10	22	0		70	
				iS	10	22	8			
				F	10	23				

Batavia 1932.

					h	m	s	sec.	km.	
496	Oct. 17	Amb.	I	e	13	30	28			
				e	13	35	11			
				L	13	44		17		
				F	14	0				
		Bat.	I	i	13	44	22			
				i	13	42	0			
				eL	13	58		20		
				F	14	0				
497	,, 17	Amb.	Iv	P	20	52	30		70	
				iS	20	52	38			
				F	20	55				
498	,, 18	Amb.	IIv	iP	4	10	25		85	
				iS	4	11	35			
				F	4	31				
		Bat.	I _r	P	4	13	43		1890	
				S	4	16	53			
				i	4	19	15			
				F	4	29				
		Mal.	I _r	eP	4	13	44		1900	no hour eclipses.
				i	4	13	52			
				S	4	16	55			
				F	4	19				
		Med.	I _r	PEW	4	14	59		2580	
				SNS	4	19	4			
				iN	4	20	21			
				F	4	40				
499	,, 20	Amb.	III _d	iP	19	6	8			azimuth SW.
				iS(off)	19	16	12			on Oct.21, 0 ^h 38 ^m
500	,, 20	Amb.	Iv	P	6	39	45		300	
				iS	6	40	19			
				F	6	45				
501	,, 21	Amb.	I	i	6	3	25			
				F	6	7				
502	,, 21	Amb.	I	i	10	57	11			
				i	10	57	15			
				i	10	57	38			
				F	11	3				
503	,, 21	Amb.	I	i ^{EW}	18	24	26			
				F			in next			
504	,, 21	Amb.	Iv	P	18	35	12		360	
				iS	18	35	53			
				F	18	40				
505	,, 22	Bat.	I	i _v	14	29	15			dilatation
				i	14	29	17			azimuth NE.
				i	14	30	27			
				F	14	40				
506	,, 22	Amb.	Iv	iP	17	42	59		40	
				iS	17	43	4			
				F	17	46				
507	,, 22	Amb.	Iv	iP	18	3	52		40	
				iS	18	3	57			
				F	18	5				
508	,, 22	Amb.	Iv	iP	18	16	4			
				iS	18	16	8			
				F	18	18				

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					h	m	s	sec.	km.	
509	Oct. 22	Amb.	I _v	iP	21	19	35			
				iS	21	19	39			
				F	21	21				
510	,, 23	Amb.	III _d	iP	0	14	ca			during changing papers strong shock threw off pens; Ceram: strong shock.
		Bat.	I	P	0	13	ca			during changing papers.
				i	0	17	42			
				i	0	21	35			
				L	0	26		16		
				F	0	44				
		Med.	I	e	0	18				
				i	0	24	14			
				F	0	39				
511	,, 23	Amb.	I _v	P	0	29	27			
				iS	0	29	50			
				F	0	30				
512	,, 23	Amb.	I _v	iP	1	52	19			
				iS	1	52	22			
				F	2	2				
513	,, 23	Amb.	I _v	P	12	10	25			
				iS	12	10	28			
				F	12	12				
514	,, 23	Amb.	I _v	iP	14	28	0			
				S	14	28,1				in minute eclipse
				F	14	30				
515	,, 23	Mal.	I _v	eP	15	50	5		70	
				iS	15	50	13			
				F	15	52				
516	,, 23	Amb.	I _v	iP	20	12	42			
				iS	20	12	45			
				F	20	14				
517	,, 25	Bat.	I _v	eP	12	33	13		150	
				S	12	33	30			
				F	12	36				
518	,, 25	Bat.	I	i _v	17	11	55			compression.
				i _v	17	13	20			
				i	17	19	49			WNW.
				e _v	17	20	5			
				F	17	24				
519	,, 26	Med.	II _d	iP	8	12	41			North Sumatra
				off	8	12	46			on: 8 ^h 16 ^m
				F	8	19				
520	,, 26	Amb.	I _v	P	17	53	52			
				iS	17	53	55			
				F	17	55				
521	,, 26	Bat.	I _v	P _v	18	7	39		120	
				eP _{EW}	18	7	42			
				iS _v	18	7	55			
				iS	18	7	56			
				F	18	11				
		Mal.	I _v	P	18	7	43		160	
				S	18	8	2			
				F	18	9				

Batavia 1932.

					h	m	s	sec.	km.	
522	Oct. 28	Bat.	I _v	P	16	33	40		455	
				S	16	34	31			
				F	16	41				
523	,, 28	Med.	I _v	P _N	20	33	17		170	
				iP	20	33	18			
				S	20	33	37			
				F	20	35				
524	,, 29	Med.	I	e	11	18,5		15.5		
				L	11	36				
				F	12	7				
525	,, 30	Med.	I	i _{EW}	20	59	26			
				i _N	21	9	26			
				L	21	40		22		
				F	22	8				
		Bat.	I	e	21	4,4				
				i	21	5,24				
				e	21	10,4				
				F	21	22				
526	,, 31	Amb.	I _v	P	23	35	47		(270)	
				S	23	36,3				in minute eclipse
				F	23	40				
N O V E M B E R.										
527	Nov. 2	Amb.	I _v	P	2	19	54			
				iS	2	19	57			
				F	2	22				
528	,, 2	Amb.	I	e	11	23	3			
				e	11	32,8				
				F	11	43				
		Med.	I	i	11	24	0			
				F	11	41				
		Bat.	I	i	11	26	5			
				F	11	40				
529	,, 2	Amb.	I _v	P	14	19	19			
				iS	14	19	23			
				F	14	22				
530	,, 2	Bat.	I _v	i	17	25	31		160	
				iP	17	25	34			
				iS	17	25	52			
				F	17	28				
531	,, 2	Mal.	I _v	P	18	44	35		110	W. Priangan.
				iS	18	44	48			
				F	18	46				
532	,, 2	Mal.	I _v	P	20	41	14		120	
				iS	20	41	28			
				F	20	42				
533	,, 3	Amb.	I _v	iP	13	19,1				no time marks
				iS	13	19,2				
				F	13	22				
534	,, 3	Amb.	I _v	iP	13	30,9				no time marks
				S	13	31,0				
				F	13	32				

Batavia 1932.

					h	m	s	sec.	km.	
535	Nov. 3	Amb.	I	e	19	47,7				no time marks
				e	19	51,4				
				F	19	58				
536	,, 4	Amb.	I _v	P	3	27	45			
				iS	3	27	48			
				F	3	28				
537	,, 5	Amb.	I _v	P	0	9	32			
				iS	0	9	35			
				F	0	14				
538	,, 6	Amb.	I _v	i	16	14	34			
				F	16	16				
539	,, 8	Bat.	I	e	13	8	39			
				i	13	8	53			
				i	13	10	1			
				i	13	11	31			
				F	13	19				
540	,, 9	Amb.	I _v	iP	18	10	47		70	
				iS	18	10	55			
				F	18	12				
541	,, 9	Med.	I _r	eP ₁	18	35	26		2700	two shocks?
				iP ₂	18	36	21		2650	
				iS ₁	18	39	39			
				iS ₂	18	40	31			
				F ²	18	48				
542	,, 9	Med.	I _v	eP	20	22	22		250	
				iS	20	22	50			
				F	20	29				
543	,, 11	Bat.	II _v	e _v	18	52	11		160	
				e	18	52	14			
				iP _v	18	52	30			dilatation
				iP	18	52	33			azimuth ENE.
				iS	18	52	52			
				i	18	54	57			
				F	19	8				
544	,, 13	Amb.	I _v	iP	0	55	1			
				iS	0	55	3			
				F	0	57				
545	,, 13	Amb.	I _r	iP	4	55	7		4990	azimuth WSW.
				iS	5	1	41			
				i	5	2	23			
				i	5	3	36			
				F	5	20				
		Med.	II _u	P	4	55	37		5370	
				iS	5	2	35			
				i	5	3	33			
				F	5	50				
		Bat.	II _u	iP _v	4	56	10		5820	compression
				iP	4	56	11			dilatation
				i _v	4	57	17			
				i	4	57	19			
				iS	5	3	34			
				eL	5	22,6		16		
				F	5	55				

Batavia 1932.

					h	m	s	sec.	km.	
546	Nov.17	Amb.	I _v	P	3	30	16			
				iS	3	30	19			
				F	3	32				
547	,, 17	Bat.	I	e	5	18	1			
				e	5	18	44			
				F	5	22				
548	,, 17	Amb.	I _v	P	11	2	32		330	
				iS	11	3	10			
				F	11	7				
549	,, 18	Amb.	I _v	iP	6	30	14			
				iS	6	30	16			
				F	6	31				
550	,, 18	Amb.	II _v	iP	13	48	45		560	azimuth NW; felt in Ternate and Minahasa.
				iS	13	49	46			
				F	14	18				
		Bat.	I _r	iP _v	13	51	7		2090	dilatation.
				iP	13	51	9			azimuth WNW.
				iS	13	54	35			
				F	14	18				
		Med.	I _r	iP	13	52	18		2540	
				iS	13	56	20			
				F	14	25				
551	,, 20	Med.	I _v	P	9	18	38		110	
				iS	9	18	51			
				F	9	24				
552	,, 21	Amb.	I _v	P	12	58	53			
				iS	12	58	56			
				F	13	0				
553	,, 22	Amb.	II _v	iP	14	52	42		460?	
				S?	14	53	34			
				F	15	28				
		Bat.	I _r	P	14	55	41		2180	
				iS	14	59	15			
				F	15	12				
		Mal.	I _r	eP	14	55,7		(1840)	no time eclipses.	
				i	14	55,8				
				S	14	58,8				
				F	15	0				
		Med.	I	i	14	57	24			
				F	15	23				
554	,, 24	Amb.	I _v	P	14	15	16			
				S	14	15	19			
				F	14	17				
555	,, 26	Amb.	I _u	P	4	32	32		5220	
				S	4	39	20			
				i	4	39	50			
				F	in next					
		Med.	I _u	eP	4	33	34		5540	
				iS	4	40	42			
				F	5	19				
		Bat.	I _u	P	4	33	51		6370	
				iS	4	41	44			
				F	5	4				

Batavia 1932.

					h	m	s	sec.	km.	
556	Nov. 26	Amb.	III _d	iP	4	47	39		80	felt.
				iS	4	47	48			
				off	4	47	51			on: 9 ^h 6 ^m .
557	,, 27	Amb.	I _v	iP	18	10	1			
				iS	18	10	4			
				F	18	11				
558	,, 27	Amb.	III _d	iP	19	4	47		40	felt.
				off	19	4	52			on: 24 ^h 35 ^m .
559	,, 28	Med.	I _v	iP	0	53	39		(30)	
				iS	0	53	43			
				F	0	55				
560	,, 29	Amb.	I _r	P	1	55	6		4390	
				S	2	1	3			
				F	2	9				
		Bat.	I _u	iP	1	57	41		6990	
				S	2	6	12			
				F	2	10				
		Med.	I _u	i	1	58	54			
				F	2	19				
561	,, 29	Bat.	I	e	11	30	9			
				i	11	34	11			
				F	11	39				
		Amb.	I	i	11	30	24			
				i	11	33	13			
				F	11	41				
		Med.	I	P	11	30	41			
				i	11	31	27			
				eL	12	30		22.5		
				F	12	39				
562	,, 30	Amb.	I _v	iP	4	59	55		390	
				iS	5	0	39			
				F	5	3				
<u>D E C E M B E R</u>										
563	Dec. 1	Mal.	I _v	P	6	2	0		100	
				iS	6	2	12			
				F	6	3				
564	,, 1	Amb.	III _d	iP	8	0	9			felt.
				iS(off)	8	0	13			on: 8 ^h 38 ^m .
565	,, 2	Amb.	I _v	iP	2	57	22			
				iS	2	57	26			
				F	2	59				
566	,, 2	Amb.	II _d	iP	4	21	55			felt.
				iS	4	21	59			
				F	4	24				
567	,, 2	Amb.	I _v	eP	13	44	10		320	
				S	13	44	47			
				F	13	49				

Batavia 1932

					h	m	s	sec.	km.	
568	Dec. 4	Amb.	II _V	iP	8	13	34		980?	Minahasa and E. Borneo
				S?	8	15	18			azimuth iP: NW.
				L	9	15		20		
				F	9	30				
		Bat.	III _r	iP	8	15	7		2080	S 63.8° W.
				iP _V	8	15	9			dilatation
				P	8	15	12			Bosch
				S _{ns}	8	18	32			
				iS	8	18	36			Bosch
				L _V	8	40		15		
				F	9	20				
		Mal.	III _r	iP	8	15	12		1930	
				iS	8	18	26			
				L	8	22		18		
				F	8	43				
		Med.	III _r	iP	8	16	26		2990	ESE
				i	8	16	40			
				i	8	17	25			
				iS	8	21	0			
				F	9	50				
569	,, 4	Amb.	I _V	iP	10	35	14		980?	Manado and E. Borneo
				S?	10	36	59			
				F	11	4				
		Bat.	II _r	eP _V	10	36	50		2110	dilatation
				iP _V	10	36	53			
				iP	10	36	55			WSW.
				S	10	44	23			
				F	11	3				
		Mal.	I _r	P	10	36	58		1930	
				iS	10	40	12			
				F	10	48				
		Med.	II _r	iP	10	38	9		3040	
				S	10	42	47			
				F	11	20				
570	,, 5	Med.	I _V	P	21	34	29		180	Tjalang, Atjeh
				iS	21	34	50			
				F	21	38				
571	,, 6	Med.	I _V	eP	23	32	10		350	
				iS	23	32	50			
				F	23	38				
572	,, 7	Amb.	I _V	P	8	21	44			
				S	8	22	48			
				F	8	32				
573	,, 7	Bat.	I _r	P _V	16	41	55		1280	faint compression
				P	16	41	57			disturbed by micros.
				i	16	42	27			
				S?	16	44	11			
				F	16	54				
		Med.	I	i _w	16	42	16			
				i	16	42	39			
				F	16	52				
574	,, 7	Amb.	I _V	P	16	46	28			
				iS	16	46	31			
				F	16	48				

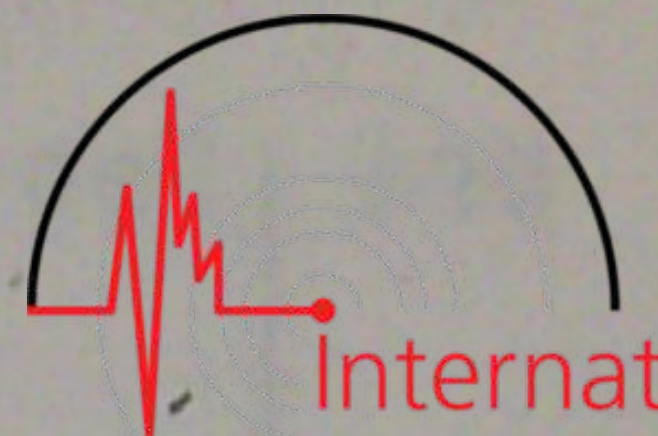
Batavia 1932

					h	m	s	sec.	km.
575	Dec. 7	Amb.	IL _v	iP	23	43	21		620
				iS	23	44	28		
				F	23	56			
576	,, 10	Bat.	I _v	iP _v	0	40	20		150
				P	0	40	22		
				iS	0	40	39		
				F	0	44			
		Mal.	I _v	P	0	40	23		150
				iS	0	40	40		
				F	0	42			
577	,, 10	Bat.	I	e	4	7,9			
				i	4	16	41		
				i	4	17	39		
				F	4	22			
		Med.	I	e	4	17			
				e	4	27	24		
				F	4	31			
578	,, 11	Med.	II	iP	4	27	12		azimuth ESE.
				iEW	4	28	11		
				i	4	30	27		
				F	5	22			
		Bat.	I	e	4	28	33		
				iEW	4	37	45		
				i	4	40	20		
				F	4	55			
579	,, 11	Med.	I	e	7	37	40		
				F	7	40	17		
				F	7	57			
580	,, 12	Bat.	I _v	iP _v	20	11	22		220
				P	20	11	23		
				iS	20	11	48		
				F	20	16			
		Mal.	I _v	P	20	11	36		280
				S	20	12	8		
				F	20	14			
581	,, 14	Mal.	I _v	P	13	14	1		60
				S	13	14	8		
				F	13	15			
582	,, 15	Mal.	I _v	P	19	6	29		130
				S	19	6	44		
				F	19	8			
583	,, 15	Med.	I _u	i	19	38,6			no time eclipses
				i	19	41,9			phases masked by
				L	19	47			micros.
				F	20	1			
		Amb.	I _u	iP _w	19	39	16		
				i	19	41	46		
				iNS	19	50	10		
				F	19	54			
		Bat.	I _u	iNS	19	41	12		
				i	19	44	52		
				F	19	52			

17

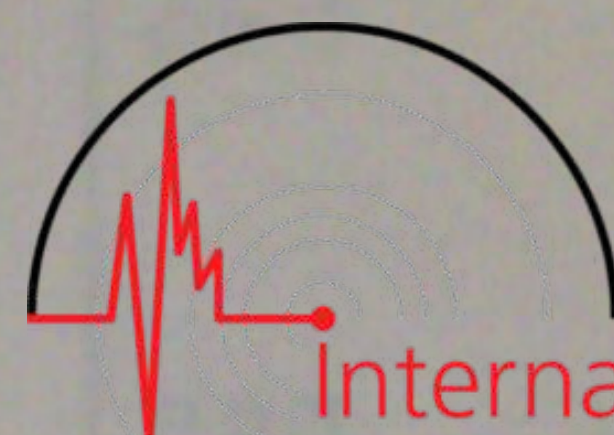
Batavia 1932.

					h	m	s	sec	km	
584	Dec.15	Amb.	I _v	iP	23	23	53			
				iS	23	23	57			
				F	23	25				
585	" 16	Bat.	I _r	iP _v	7	19	30		2600	dilatation;
				P	7	19	32			
				i _v	7	19	46			dilatation.
				iS	7	23	38			
				F	7	33				
		Med.	I	i	7	20	46			
				F	7	35				
586	" 17	Mal.	II _v	eP	23	6	6		320	Tjimiring' (Banj.,
				iS	23	6	42			C., Java)
				F	23	12				
		Bat.	I _v	eP	23	6	18		560	dilatation.
				P _v	23	6	20			
				eS	23	7	9			
				iS _v	23	7	19			
				iS	23	7	21			
				F	23	20				
587	" 18	Amb.	L _v	P	3	58	33		160	
				S	3	58	51			
				F	4	2				
588	" 20	Amb.	I _r	P	15	17	4		1250	Taroena' (Sangi I.,
				S	15	19	15			N. Celebes).
				F	15	25				
		Med.	I	e	15	19,3				
				F	15	42				
		Bat.	I _r	eP _{EW}	15	19	52		2420	
				i	15	20	13			
				eS _{NS}	15	23	45			
				F	15	34				
589	" 20	Med.	II _v	P	18	38	16		600?	Atjeh. (N. Sumatra)
				i	18	38	24			
				i	18	38	51			
				iS?	18	39	21			
				F	18	53				
590	" 21	Bat.	I _u	e	6	30	1			
				i	6	31	32			
				i	6	33	43			
				eL	7	9		19.5		
				L	7	23		26.0		
				L	8	8		18.5		
				F	8	26				
		Med.	I _u	e	6	31	58			
				eL	7	14				
				L	7	19		20		
				L	7	48		14		
				L	8	7		18		
				L	8	34		17		
				F	8	48				
591	" 22	Amb.	I _v	P	7	1	8		170	
				S	7	1	28			
				F	7	4				
592	" 23	Med.	I _v	eP	1	8	39		270	
				iS	1	9	10			
				F	1	37				
593	" 23	Med.	I _v	eP	5	34	24		290	
				S	5	34	57			
				F	5	39				
594	" 24	Amb.	I	P _{NS}	6	34	42			
				iP	6	34	53			azimuth NE.
				i	6	38	11			
				F	7	35				

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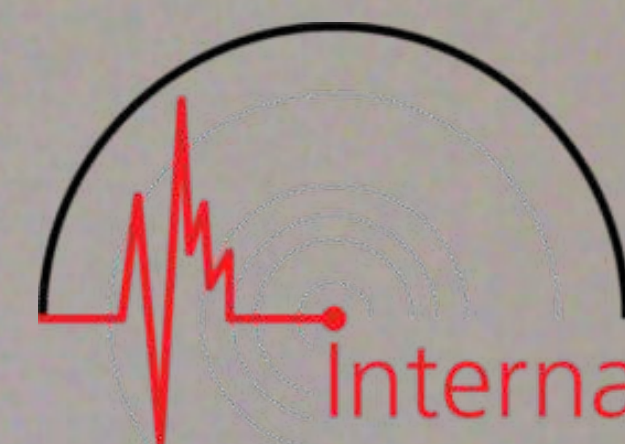
Batavia 1932.

					h	m	s	sec	km	
594	Dec. 24	Bat.	I	iW	6	38	14			
				iE	6	39	42			
				iL	6	47	3			
				Lv	6	47		19		
				F	7	6				
		Med.	I	P	6	39	26			
				i	6	40	1			
				i	6	47	11			
				i	6	47	53			
				L	7	8				
				F	7	41				
595	" 25	Med.	III _r	P _N	2	10	35		4230?	azimuth SSE.
				iP	2	10	43			
				i	2	12	16			
				iS?	2	16	23			
				F	4	51				
		Bat.	III _r	iP	2	12	55		4960	azimuth SE; dilatation.
				iP	2	13	3			
				i	2	15	30			
				eS	2	19	27			
				iEW	2	24	50			
				LEW	2	27	4	37		
				MEW	2	29,4		28		
				F	3	57				
		Mal.	III _r	P	2	13	10			
				i	2	13	45			
				i	2	15	39			
				LEW	2	27	10	42.5		
				L	2	29	30	26		
				F	3	36				
		Amb.	II _u	P	2	13	40		5670	
				iP	2	13	47			
				SNS	2	20	55			
				iSW	2	21	8			
				L	2	30		20.5		
				F	4	1				
596	" 26	Med.	I _r	P	21	20	24		3570	
				iS	21	25	34			
				F	21	43				
		Bat.	I _r	iP _v	21	21	38		3930	compression. azimuth NE.
				P	21	21	39			
				S	21	27	10			
				i	21	27	16			
				F	21	39				
597	" 26	Med.	I	i	22	38	19			
				F	22	44				
		Bat.	I _r	iP _v	22	38	53		4670	compression. azimuth ENE.
				P	22	38	55			
				F	22	53				
				iS	22	45	9			
598	" 27	Amb.	I _v	P	2	20	19			
				iS	2	20	23			
				F	2	22				
599	" 30	Mal.	I _v	P	20	15	6		160	
				iS	20	15	24			
				F	20	18				
600	" 30	Bat.	I _r	P	20	35	39		2650	azimuth ENE.
				S	20	39	49			
				F	20	47				
601	" 31	Amb.	I _r	eP _{EW}	4	30	56		1990?	
				i	4	34	4			
				S?	4	34	14			
				F	4	36				
602	" 31	Med.	I _u	P	6	42	12		7730	
				S	6	51	16			
				LNS	7	5,4		22		
				L	7	12,4		15,5		

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Batavia 1932.

						h	m	s	sec	km
602	"	31	Med.	I _u	F	7	36			
			Bat.	I _u	P _v	6	42	26		8330
					PW	6	42	30		
					iS	6	43	19		
					S	6	51	58		
					i	6	52	46		
					F	7	58			

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Constants.

EW Component.				NS Component.			V Component.		
1932	V	T ₀	ε	V	T ₀	ε	V	T ₀	ε
October	220	7.0	3.4	200	7.0	4.1	330	4.6	3.7
November	220	7.0	3.4	200	7.0	4.1	330	4.7	3.7
December	190	6.7	3.2	220	7.1	3.1	300	4.6	3.6
	e ₀	r		e ₀	r		e ₀	r	
October	1.1	0.4		1.1	0.7		1.2	0.8	
November	1.1	0.8		1.1	0.7		1.2	0.8	
December	1.1	0.4		1.1	0.7		1.2	0.9	

Errata 1932.

Constants Jan.-September for E read ε

No. 83. read: March 1.

No. 332. Sept. 9, Malabar, read 13^h.No. 499. Oct. 20, iS, read 6^m.

No. 580. Dec. 12, add:

S.L. I ₀	iP	20	11	17	120 km
	iS	20	11	31	
	F	20	12		

Seismological Bulletin 1932.

Royal Magnetical and Meteorological Observatory
Batavia, Java.



Foundation: River Quaternary.

Greenwich Civil Time. Height above sealevel 8 m.

S. Latitude $6^{\circ}11'0''$. E. Longitude $7^{\text{h}} 7^{\text{m}} 20.3^{\text{s}}$.

Wiechert Horizontal Pendulum, 1000 kilograms, NS and EW components,

Wiechert Vertical Pendulum, 1300 kilograms

Bosch-Omori seismograph, 25 kilograms.

MALABAR.

Foundation: Volcanic.

S. Latitude $7^{\circ} 13'$; E. Longitude $107^{\circ} 37'$; Height above sea-level 1550 m. Wiechert Horizontal Pendulum 100 kg, NS and EW component. Since July 1911. Time Signals by Malabar Radio.

Possession of Mr. R. A. Kerkhoven.

AMBOINA.

Foundation: Quaternary.

S. Latitude $3^{\circ} 42'$; E. Longitude $128^{\circ} 10'$; Height above sea-level 4 m. Wiechert Horizontal Pendulum 1000 kg, NS and EW component. Since October 1924. Time Signals by Malabar Radio.

MEDAN.

Foundation: Quaternary.

N. Latitude $3^{\circ} 35'$; E. Longitude $98^{\circ}41'$; Height above sea-level 25 m. Wiechert Horizontal Pendulum 1000 kg, NS and EW component. Since July 24th, 1929. Time Signals by Malabar Radio.

SOENGEI LANGKA.

S. Latitude $5^{\circ} 24' S$; E. Longitude $105^{\circ}13'$. Height above sea-level m. Bosch-Omori, NS component. Since September 5, 1931. Time Signals unreliable.

Batavia 1932.

International
Seismological
Centre

1932	EW component			NS component			V component		
	V	T ₀	E	V	T ₀	E	V	T ₀	E
January	220	6.9	3.4	200	6.7	3.7	330	4.7	3.7
February	220	6.9	3.3	200	6.7	3.8	330	4.7	3.6
March	220	7.1	3.3	200	7.1	4.0	330	4.7	3.6

	e ₀	r		e ₀	r		e ₀	r
January	1.17	0.5		1.12	0.9		1.14	0.6
February	1.13	0.4		1.13	1.0		1.16	0.7
March	1.12	0.4		1.14	0.9		1.17	0.9

January.

1	Jan.	1 Bat.	I _v	eP	16 45 56	930	
				S	16 47 36		
				F	16 55		
2	,,	2 Bat.	I _v	P	18 23 8	690	
				S	18 24 22		
				F	18 30		
3	,,	3 Bat.	I	i	8 0 24		
				F	8 6		
4	,,	3 Amb.	III _d	iP	8 11 10	40 destructive at Saparoea, Ceram.	
				off	8 11 14		
				on	9 11		
5	,,	3 Amb.	II _v	iP	9 27 42	40	
				iS	9 27 46		
				F	9 36		
6	,,	3 Mal.	I _v	iP	10 59 22		
				iS	10 59 23		
				F	10 59 51		
7	,,	3 Amb.	I _v	P	13 23 54	40	
				S	12 23 58		
				F	in next		

Batavia 1932.

8	Jan.	3	Amb.	I _v	P 13 25 34 iS 13 25 38 F 13 28	40	
9	,,	3	Amb.	I _v	P 13 48 47 S 13 48 52 F 13 50	40	
10	,,	4	Amb.	I _v	P 23 52 3 iS 23 52 9 F 23 56	50	
11	,,	5	Bat.	I	e 0 40,7 i 0 43 54 F 0 50		
			Amb.	I	P 0 38 28 S? 0 39 30 F 0 49	570?	
12	Jan.	6	Amb.	I _v	P 4 29 29 S 4 29 34 F 4 31	40	
13	,,	7	Amb.	I _v	P 6 52 51 S 6 52 55 F in next	40	
14	,,	7	Amb.	I _v	P 6 54 41 S 6 54 45 F 6 56	40	
15	,,	7	Amb.	II _v	P 23 53 40 S 23 53 44 F 23 57	40	Saparoea.
16	,,	8	Amb.	I _v	P 0 18 45 S 0 18 49 F 0 20	40	
17	,,	8	Amb.	I _v	P 2 5,2 iS 2 5 17 F in next		01 in minute eclipse.
18	,,	8	Amb.	I _v	P 2 7 54 S 2 7 59 F 2 10	40	
19	,,	8	Amb.	I _v	P 12 27 10 S 12 27 15 F 12 29	40	
20	,,	8	Amb.	II _d	iP 13 40 47 iS 13 40 51 F 13 43	40	
21	,,	8	Amb.	II _d	P 17 23 0 iS 17 23 8 F 17 31		in minute eclipse.

Batavia 1932.

22	Jan.	9	Bat.	II _r	P _w	10	29	40	4860	
					S	13	36	5		
					eL	10	50		25	
					eL	10	55		16.5	
					F	11	5			
			Mal.	I _r	eP	10	29	45	4720	
					iP	10	29	46		
					iS	10	36	2		
					F	10	38			
			Amb.	II	iP	10	26	49		
					i	10	27	15		
					i	10	28	12		
					F	11	6			
23	,,	9	Amb.	III _d	iP	14	14	30		
					off	14	14	48		
24	,,	10	Amb.	I _v	P	11	58	42	190	
					S	11	59	4		
					F	12	7			
25	,,	10	Amb.	II _v	iP	12	18	4	100	
					S	12	18	16		
					F	12	24			
26	,,	10	Amb.	I _v	P	14	34	30	40	
					iS	14	34	34		
					F	14	37			
27	,,	11	Amb.	II _v	iP	21	30	32	40	
					S	21	30	36		
					F	21	34			
28	,,	11	Amb.	III _d	iP	2	26	44	(40)	Saparoea.
					off	2	26	47		
					on	2	30			
					F	2	49			
29	,,	11	Amb.	I _v	P	5	13,7			in minute eclipse.
					S	5	13	45		
					F	5	16			
30	,,	11	Amb.	I _v	iP	7	11	24	40	
					iS	7	11	28		
					F	7	13			
31	,,	11	Bat.	I _v	eP	17	24	8	180	
					S	17	24	29		
					F	17	31			
			Mal.	I _v	eP	17	24	49	50?	
					S?	17	24	55		
					F	17	26			
32	,,	12	Mal.	II _v	P	7	6	19	130	
					iS	7	6	34		
					F	7	9			
33	,,	12	Amb.	I _v	iP	12	48	32	40	
					S	12	48	37		
					F	12	52			
34	,,	12	Amb.	I _v	P	20	1	32	40	
					iS	20	1	36		
					F	20	5			

Batavia 1932.

35	Jan. 13	Amb.	II _v	iP	0 41 23	40	
				iS	0 41 28		
				F	0 47		
36	,, 13	Amb.	III _v	iP	2 9 6	40	
				S	2 9 11		
				F	in next		
37	,, 13	Amb.	I _v	iP	2 15 0	40	
				S	2 15 5		
				F	2 20		
38	,, 13	Amb.	I _v	P	2 46 53	40	
				iS	2 46 57		
				F	2 49		
39	,, 14	Amb.	I _v	P	4 54 21	30	
				S	4 54 24		
				F	4 56		
40	,, 16	Amb.	I	i	5 57 45		
				F	6 4		
41	,, 16	Mal.	I _v	P	9 20 18	80	
				iS	9 20 37		
				F	9 22		
42	,, 16	Mal.	I _v	eP	17 10 14	210	
				iS	17 10 38		
				F	17 13		
43	,, 17	Amb.	I _v	P	1 41 54	40	
				S	1 41 58		
				F	1 44		
44	,, 17	Mal.	I _v	eP	10 17,5	(120)	
				S	10 17 51		
				F	10 19		
45	,, 17	Amb.	I _v	P	13 53 43	40	
				S	13 53 47		
				F	13 56		
46	,, 20	Amb.	II _v	iP	5 36 15	70	
				iS	5 36 23		
				F	5 43		
47	,, 20	Amb.	I _v	P	13 45 36	40	
				S	13 45 40		
				F	13 47		
48	,, 21	Bat.	I	iP	14 51 14		azimuth NNE.
				F	14 56		
49	,, 21	Mal.	I	i	21 13 38		
				F	21 17		
50	,, 21	Amb.	II _v	iP	23 23 6	80	
				iS	23 23 15		
				F	23 28		

Batavia 1932.

51 Jan. 23 Bat.	I	iEW	3	54	42	
		i	4	3	49	
		L	4	20		21
		F	4	28		
Amb.	I	iP	3	52	6	
		i	3	58	22	
		L	4	7		19
		M	4	9	48	18
		F	4	35		
Med.	I _u	PEW	3	56	59	7650
		i	3	57	53	
		S	4	5	59	
		L	4	26		25
		L	4	30		18
		F	4	47		
52 ,, 24 Amb.	I	eP	18	15	22	(40)
		S	18	15,5		
		F	18	17		
						in minute eclipse.
53 ,, 27 Bat.	I _v	P	6	38	38	240 East Priangan (W.Java).
		S?	6	39	5	
		i	6	40	13	
		F	6	45		
Mal.	II _v	iP	6	38	25	90
		iS	6	38	36	
		F	6	44		
54 ,, 29 Bat.	II _u	PEW	13	49	52	5060
		iS	13	56	31	
		F		in next		
Amb.	II _r	iP	13	46	52	3220
		i	13	46	59	
		i	13	47	43	
		iS	13	51	40	
		i	13	52	6	
		L	14	0	10	20
		F		in next		
Mal.	I _u	P	13	49	52	5260
		i	13	51	7	
		iS	13	56	43	
		F	14	6		
Med.	II _u	PEW	13	50	58	6320
		S	13	58	48	
		F	14	46		
55 ,, 29 Bat.	I _r	eP	14	16	33	4560 overlapped by No. 10.
		iS	14	22	40	
		F	14	38		
Amb.	I _r	eP	14	13	54	3500 overlapped by No. 10.
		S	14	19	0	
		F	15	8		
56 ,, 29 Bat.	I _u	eP	15	47	46	5270
		iS	15	54	36	
		L	16	1		
		F	16	8		
Amb.	I _r	P	15	44	49	2680
		i	15	45	26	
		iS	15	49	15	
		i	15	50	33	
		eL	15	56		21
		F	16	17		

7

Batavia 1932.

		Med.	I _u	eP	15 48 52	6320
				iS	15 56 42	
				L	16 15	17
				F	16 47	
57 Jan.	30	Bat.	I	i	3 13 36	
				L	3 37	18
				F	3 48	
		Med.	I	eP	3 14 51	
				i	3 22 54	
				F	4 4	
58 ,,	30	Mal.	I _v	P	15 12 12	100 Daradjat (E. Priangan).
				S	15 12 24	
				F	15 14	
59 ,,	31	Bat.	I	i	16 9 34	
				i	16 16 11	
				F	16 36	
		Amb.	I	i	16 6 46	
				i	16 12 40	
				F	16 33	
		Med.	I	e	16 12,0	
				i	16 21 53	
				F	16 32	
60 ,,	31	Amb.	I _v	P	21 10 48	70
				iS	21 10 56	
				F	21 17	
61 ,,	31	Bat.	I	e	21 39 9	Atjeh.
				i	21 43 42	
				i	21 44 48	
				F	21 49	
		Med.	III _v	iP	21 37 2	210
				iS	21 37 26	
				F	21 55	

February.

62 Feb.	1	Mal.	I _v	P	8 42 45	130
				S	8 43 0	
				F	8 43 35	
63 ,,	2	Bat.	I _v	PEW	5 30 3	200 Bantam (W. Java).
				iS	5 30 26	
				F	5 34	
		Mal.	I _v	eP	5 30 9	270
				S	5 30 40	
				F	5 32	
64 ,,	3	Bat.	I	i	6 37 25	
				F	6 59	
		Med.	I	e	6 37 1	
				F	7 10	
65 ,,	3	Bat.	I	i	7 42 27	
				i	7 48 38	
				F	7 59	
		Med.	I	e	7 42 25	
				i	7 48 39	
				i	7 49 49	
				L	7 54 36	20
				F	8 7	

February 1932.

66 Feb. 4 Amb. III_v iP 5 23 11
 iS 5 23 13
 F 5 25

100

67 ,, 5 Bat. I i 13 58 53
 i 14 0 43
 F 14 15
 Med. II_u P 13 48 23
 i 13 48 28
 S 13 55 16
 i 13 55 47
 F 14 18

5290

68 ,, 7 S.L. I_d eP 2 51 38
 eS 2 51 43
 F 2 52

69 ,, 8 Bat. I_v eP 9 21 50
 S? 9 22 54
 F 9 31

580?

70 ,, 8 Med. I e 19 46,2
 i 19 49 14
 F 20 8

71 ,, 12 Bat. I e 0 57 26
 i 1 5 1
 F 1 21
 Med. I e 1 4 31
 i 1 6 57
 L 2 22
 F 2 34

17

72 ,, 12 Med. I e 23 46 45
 F 23 52

73 ,, 13 Amb. I_v P 22 0 40
 S 22 1 12
 F 22 3

280

74 ,, 14 Bat. I i 23 21 21
 i 23 22 8
 i 23 31 48
 i 23 34 50
 F 24 4
 Med. II i 23 21 9
 i 23 29 23
 i 23 33 46
 F 24 23

75 ,, 16 Bat. I_v eP 7 14 22
 S 7 15 25
 i 7 15 47
 F 7 18

580

76 ,, 16 Bat. I P 14 0 18
 i 14 1 18
 i 14 9 40
 i 14 13 47
 L 14 33,3
 F 14 49
 Med. I i 14 1 37
 i 14 5 24
 L 14 42
 F 15 4

20.0

21

Batavia 1932.

	Amb.	I	P	13	57	4	20.5
			L	14	19	44	
			F	14	30		
77 Feb. 21 Bat.	I	e	16	9	35		
		i	16	10	54		
		F	16	17			
78 ,, 23 Bat.	I	e	0	31	23		
		i	0	37	59		
		i	0	38	44		
		F	0	40			
	Med.	I	P	0	(38)		21
			?	0	39	23	
			L	1	3		
			F	1	26		
79 ,, 23 Bat.	I	e	7	40	11		
		i	7	41	10		
		F	7	47			
80 ,, 23 Bat.	I	e	20	20	46		
		e	20	28	10		
		F	20	36			
81 ,, 26 Bat.	I _r	P	11	34	50		1860
		iS	11	37	57		
		F	11	48			

starting during changing papers.

March.

82 March 1	Med.	I	eP	1	9	39	
			i	1	9	59	
			i	1	10	16	
			F	1	14		
83 ,, 2 Bat.	I _v	iP	17	3	2		370 dilatation.
		iS	17	3	44		
		F	17	8			
	Mal.	iP	17	2	52		300
		iS	17	3	26		
		F	17	4	50		
84 ,, 2 Bat.	I	e	14	58	24		NE Tapanoeli and Sumatra's Westkust.
		i	15	0	8		
		F	15	5			
	Med. II _v	P	14	54	49		320
		i	14	55	55		
		iS	14	55	25		
		F	15	13			
85 ,, 3 Bat.	I _v	i	9	31	9		160?
		F	9	35			
	Mal. I _v	P	9	30	38		
		S?	9	30	56		
		F	9	32			

Batavia 1932.

86	March	4	Med.	I _v	eP	12	18	48	400	
					S	12	19	33		
					F	12	26			
-	,,	4	Amb.	III _d	iP	21	15	53	70	NE Amboina.
					iS	21	16	1		off.
87	,,	5	Bat.	I _v	iP _v	21	3	54	150	dilatation. Bantam (W. Java).
					P	21	3	55		
					iS	21	4	11		
					F	21	7			
88	,,	6	Bat.	II _v	iP	6	21	13	130	NE; dilatation.
					iS	6	21	38		Bantam (W. Java).
					F	6	32			
			Mal.	II _v	i	6	21	16	230	
					iP	6	21	18		
					iS	6	21	44		
					F	6	26			
89	,,	6	Med.	II	P	21	53	23		
					i	21	57	9		
					i	22	58	23		
					F	23	10			
90	,,	8	Bat.	I	e	3	21	1		
					F	14	15	4		
			Amb.	I	i	3	16	41		
					i	3	18	2		
					F	3	36			
			Med.	I	e	3	21,4			
					e	3	27	42		
					F	3	39			
91	,,	8	Amb.	I	i	18	10	4		
					i	18	17	53		
					L	18	33		175	
					F	18	42			
92	,,	8	Amb.	I _v	P	21	14	37	(40)	
					iS	21	14	41		
					F	21	18			
93	,,	11	Mal.	I _v	iP	11	44	11	100	Priangan (W. Java).
					iS	11	44	23		
					F	11	45	33		
94	,,	13	Bat.	I _v	i	14	15	4	130	NNE; dilatation.
					iP	14	15	6		Priangan (W. Java).
					iS	14	15	21		
					i	14	16	29		
					F	14	20			
			Mal.	III _v	iP	14	14	51	85	
					iS	14	15	1		
					F	14	17	51		
95	,,	13	Amb.	I _v	iP	18	10	22	100	
					iS	18	10	34		
					F	18	17			

Batavia 1932.

96	March 13	Amb.	I _v	P	18 23 52	90
				iS	18 24 3	
				F	18 26	
97	,,	14 Bat.	I	e	23 3 2	
				i	23 9 4	
				F	23 25	
98	,,	15 Bat.	I	i _v	4 40 1	dilatation.
				i	4 40 2	
				i	4 41 41	
				i	4 46 16	
				F	5 5	
		Med.	I	iEW	4 40 39	
				i	4 47 23	
				F	5 25	
		Amb.	I	i	4 37 12	
				F	4 55	
99	,,	18 Bat.	I	i	5 24 10	
				i	5 30 28	
				F	6 2	
		Med.	I _r	P	5 23 51	4700
				S	5 30 7	
				i	5 35 38	
				i	5 36 21	
				F	6 30	
100	,,	19 Bat.	I	i _v	11 8 2	dilatation.
				i	11 8 5	
				i	11 14 40	
				F	11 31	
		Med.	I	P	11 9 1	
				i	11 15 48	
				L	11 26 17	22
				F	11 55	
		Amb.	I _r	iP	11 5 24	3870
				iS	11 10 52	
				L	11 17 20	20
				F	11 37	
101	,,	19 Amb.	I	i	23 15 56	
				F	23 30	
102	,,	20 Med.	II _v	i	0 21 45	170 Tapanoeli and Oostkust van Sumatra.
				iP	0 21 48	
				iS	0 22 8	
				F	0 31	
103	,,	20 Med.	I _v	eP	13 54 36	520
				S	13 55 33	
				F	14 7	
104	,,	24 Med.	I	e	16 3 5	
				i	16 13 38	
				i	16 17 9	
				F	16 43	

Batavia 1932.

105	March 25	Amb.	I iP	23 34 57	
			i	23 45 23	
			F	23 56	
106	,,	26 Bat.	I e	0 9 37	
			e	0 16 0	
			i	0 25 48	
			L	0 53	27
			M	0 58 26	15
			M	1 4 30	18
			F	1 10	
		Med.	I e	0 11 17	
			L	0 43	33
			L	0 46 11	27
			M	0 51 15	17
			F	1 25	
107	,,	26 Bat.	III _r iP _v	9 57 11	2650 dilatation.
			iP	9 57 12	ESE
			iS	10 1 32	Moluccas.
			L _v	10 5 38	16
			F	10 59	
		Mal.	II _r iP	9 57 7	2430
			iS	10 1 1	
			F	10 14	
		Med.	II _r iP	9 55 2	4100
			i	9 56 18	
			iS	10 0 41	
			i	10 3 15	
			F	11 25	
		Amb.	III _d iP	9 48 0	off. time uncertain.
			F	10 55	
108	,,	26 Amb.	II _v iP	10 57 45	(40)
			iS	10 57 49	
			F	11 9	
109	,,	26 Amb.	I _v eP	11 56 24	(40)
			iS	11 56 29	
			F	11 57	
110	,,	26 Amb.	I _v eP	12 28 58	70
			S	12 29 6	
			F	12 31 11	
111	,,	26 Amb.	I _v P	12 41 58	85
			S	12 42 8	
			F	12 51	
112	,,	26 Amb.	II _v iP	13 26 28	-
			iS	13 26,6	in minute eclipse.
			F		
113	,,	26 Amb.	I _v eP	16 41 3	80
			iS	16 41 12	
			F	16 46	

24

114	March 27	Bat.	I	1P _v	0 52 32		Compression.
				P	0 52 33		
				i	0 53 17		
				i	0 54 48		
				F	1 5		
		S.L.	I _v	P	0 52 25	250	
				S	0 52 53		
				F	0 55		
115	,,	27 Med.	I	P	8 47 11		
				i	8 56 18		
				i	8 56 57		
				F	9 11		
116	,,	27 Amb.	I _v	P	9 29 20	60	
				iS	9 29 27		
				F	9 35		
117	,,	27 Amb.	II _v	P	19 33 24	60	
				S	19 33 31		
				F	19 50		
118	,,	28 Bat.	III _v	1P _v	0 37 41	850	compression.
				iP	0 37 42		WNW.
				iS	0 39 13		
				F	1 48		
		Mal.	III _v	i	0 37 48	600	
				iP	0 37 51		
				iS	0 38 56		
				F	0 56		
		Med.	II	eP	0 38 6		
				i	0 40 29		
				i	0 42 10		
				F	2 25		
		S.L.	II	e	0 37 50		
				i	0 42 0		
				F	0 56		
119	,,	28 Amb.	I _v	1P	13 23 14	90	
				iS	13 23 25		
				F	13 32		
120	,,	29 Amb.	I _v	P	3 18 41	60	
				iS	3 18 48		
				F	3 23		
121	,,	29 Amb.	I _v	P	18 43,5		in minute eclipse.
				iS	18 43 44		
				F	19 1		
122	,,	29 Med.	I _v	eP	20 0 4	440	
				eS	20 0 53		
				F	20 3		
123	,,	30 Amb.	I _v	eP	7 59 49	50	
				iS	7 59 55		
				F	8 3		
124	,,	30 Amb.	I _v	P	9 2 1	40	
				iS	9 2 6		
				F	9 8		

Batavia 1932.

125 March 30 Bat. I i 15 10 10
i 15 16 55
F 15 24
Amb. I i 15 7 11
i 15 12 19
F 15 22
Med. I o 15 8 39
i 15 17 16
i 15 17 38
F 15 31

126 ,, 30 Bat. II_d iP_v 17 30 37
i 17 30 38
iP 17 30 39
iS 17 30 56
F 17 42
Mal. III_d P 17 30 28
iS 17 30 44
F 17 35

150 dilatation.
NNE. West-Java.

140 SSW.

127 ,, 31 Amb. I_v P 4 55 5
iS 4 55 9
F 5 2

(40)

128 ,, 31 Amb. I_v P 12 20 50
iS 12 20 58
F 12 26

70

129 ,, 31 Amb. II_v iP 14 40 13
iS 14 40 22
F 14 52

80

Note. Medan, March 24-31, time indications uncertain.