

SEISMOLOGICAL BULLETIN 1925.

BATAVIA OBSERVATORY, JAVA

Foundation: River Quartair.
 Greenwich Mean Time. S. Latitude $6^{\circ} 11' 0''$. Height above sealevel 8 m.
 E. Longitude $7^{\text{h}} 7^{\text{m}} 20.3^{\text{s}}$. (1)
 WIECHERT Horizontal Pendulum, 1000 kilograms.

PREFACE.

The astatic seismograph of WIECHERT of 1000 kg. is registering regularly since December 6th 1908.

The instrument is mounted on a heavy brick pillar in a room with thick walls (about 70 centimeters), that is protected against the sun's heat by open galleries around it. The components are placed in E-W and N-S direction respectively.

The pins are lifted electrically every hour for a period of 10 seconds by the Javanese observer on duty. A lifting of two seconds every minute is given by an electrical clock of PEYER FAVARGER by means of the second-dial passing through a drop of mercury.

For each month the mean constants for that month are applied. T_0 and ϵ , the oscillation period and the coefficient of damping, are determined every week. V , the magnification for very short waves, is determined occasionally only. It is found by direct measurement, giving the pendulum a displacement by means of the horizontal adjusting screws, the value of which can be determined easily from the pitch (a), the angle of displacement of the screws and the height of the screws (b) and of the centre of gravity (c) above the Cardanic suspension apparatus.

It was found

(a) = 1.407 mm; (b) = 1225 mm; (c) = 895 mm.

The constants used from January, February and March 1925 are given below

1925.	E-W component.			N-S component.		
	V.	T_0 .	ϵ .	V.	T_0 .	ϵ .
January	190	7.8	4.1	188	7.6	4.2
February	"	7.6	4.3	"	7.2	4.7
March	"	7.6	4.2	"	7.3	4.6

(1) For the E. Longitude of the Observatory, see: J. BOEREMA, A New Determination of the Eastern Longitude of Batavia; K. Magn. Met. Observ. Batavia, Verhandelingen No. 12, 1924.

The notation used is that of the Göttingen Geophysical Institute.
The following abbreviations are employed:

CHARACTER OF THE EARTHQUAKE.

I = perceptible; II = moderately strong; III = strong.

d (terrae motus domesticus) = local.

v (vicinus) = near (less than 1000 km).

r (remotus) = distant (1000 to 5000 km).

u (ultimus) = very distant (over 5000 km).

PHASES.

P (undae primae) = 1st preliminary tremors.

S (undae secundae) = 2nd " "

L (undae longae) = principal phase, long waves.

M (undae maximae) = maximum amplitude.

C (coda) = prominent waves among the after tremors.

F (finis) = end of perceptible movement.

PR₁, PR₂, SR₁, SR₂, = 1st, 2nd reflected waves of P and S.

PS = waves changed by reflection from longitudinal to transversal oscillation.

WAVE-ELEMENTS, UNITS.

T = complete period in seconds.

A = amplitude, measured from median position in microns.

A_E = E.-W. component of A.

A_N = N.-S. " " "

i (impetus) = abrupt commencement, clearly defined.

e (emersio) = gradual " " , not clearly defined.

MALABAR.

July 1911 an astatic WIECHERT pendulum of 100 kg. which is the possession of Mr. K. A. R. BOSSCHA, chief manager of the tea estate Malabar (Preanger, Java; E. Long. 107° 37'; S. Lat. 7° 13') has been erected. Time is controlled since August 12, 1923, by means of the daily time signal of Malabar Radio.

Particulars about the registrations will be found in the tables.

MARON.

February 1924 an OMORI tromometer has been established on the western slopes of the volcano Merapi (Central Java) at Maron (Kedoe, 110° 25' E; 7 34' S). Particulars about the registrations will be found in the tables.

AMBOINA.

October 1924 an astatic WIECHERT Pendulum of 1000 kg. has been established at Amboina (Moluccas; 128° 10' E; 3° 42' S). The time signals not yet working satisfactorily time is given in 1/10 minutes.

The distances given in the Bulletin Batavia are calculated with the time tables of Dr. S. W. Visser. See Verhandelingen Batavia No. 7, 1921. The postponed table is an extract of these tables.

Distance.	S-P	P-O	S-O	Distance.	S-P	P-O	S-O
	m s	m s	m s		m s	m s	m s
1°	0 13	0 16	0 29	56°	7 46	9 54	17 40
2	25	31	56	57	52	10 1	53
3	38	46	1 24	58	58	8	18 6
4	50	1 1	51	59	8 4	15	19
5	1 1	17	2 18	60	10	22	32
6	12	32	44	61	15	29	44
7	24	47	3 11	62	21	36	57
8	35	2 2	37	63	26	43	19 9
9	47	16	4 3	64	32	49	21
10	57	31	28	65	38	55	33
11	2 8	45	53	66	43	11 2	45
12	19	59	5 18	67	49	8	57
13	30	3 12	42	68	55	14	20 9
14	40	26	6 6	69	9 1	20	21
15	50	39	29	70	6	26	32
16	3 0	52	52	71	11	33	44
17	10	4 4	7 14	72	16	39	55
18	19	17	36	73	21	45	21 6
19	28	29	57	74	26	51	17
20	37	41	8 18	75	32	57	29
21	46	53	39	76	37	12 3	40
22	55	5 4	59	77	42	9	51
23	4 3	16	9 19	78	47	15	22 2
24	11	27	38	79	53	20	13
25	19	38	57	80	58	26	24
26	27	48	10 15	81	10 4	31	35
27	35	58	33	82	9	37	46
28	41	6 9	50	83	14	42	56
29	48	19	11 7	84	19	47	23 6
30	56	28	24	85	24	52	16
31	5 3	37	40	86	28	58	26
32	10	46	56	87	32	13 4	36
33	17	55	12 11	88	37	9	46
34	24	7 4	28	89	41	15	56
35	30	15	45	90	46	20	24 6
36	36	22	58	91	50	25	15
37	43	30	13 13	92	55	30	25
38	50	38	28	93	59	35	34
39	57	46	43	94	11 3	40	43
40	6 5	55	58	95	7	45	52
41	11	8 1	14 12	96	11	50	25 1
42	18	9	27	97	15	55	10
43	25	17	42	98	18	14 0	18
44	32	24	56	99	22	5	27
45	40	31	15 11	100	25	10	35
46	47	39	26	101	27	15	42
47	55	47	40	102	30	20	50
48	7 0	54	54	103	32	25	57
49	6	9 2	16 8	104	34	30	26 4
50	13	9	22	105	37	34	11
51	18	17	35	106	40	39	19
52	24	24	48	107	42	44	26
53	29	32	17 1	108	45	48	33
54	35	39	14	109	47	53	40
55	40	47	27	110	50	58	48

JANUARY 1925.

Date 1925.	Sta-tion.	Char-acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epi-centrum.	Remarks.
				h	m	s		μ	μ		
Jan. 1	Bat.	I _v	P iP _N iS F	13	41	41 42 58 46			150	Lengkong (W. Preanger).	
	Mal.		P _E	15	41	57					
" 2	Bat.	I _v	i F	18	49	3 51					
	Mal.		i	18	49	52					
" 2	Bat.	I _v	P S? i F	18	50	52 51 51 55					
	Mal.		iP iS	18	51	56 50			120		
" 5	Amb.		iP iS	2	56,6				85		
" 5	Amb.		iP iS	5	56,4				80		
" 5	Amb.		iP iS	7	57,1				90		
" 5	Amb.		iP _N iS	11	50,9				(50)		
" 11	Amb.		iP S	15	5,5				190		
" 12	Amb.		iP iS	15	51,0				190		
" 15	Amb.		P S	21	14,5				150		
" 18	Bat.	II _u	iP i _N iS eL i F	12	16	52 53 44 12 45 51 49			7510	Azimuth SW. Azimuth NNW. New shock?	
	Mal.		P i eL i	12	16	58 50 27 27				MARON: i — iP = 10 ^s . iS — i = 8 ^m 12 ^s .	
	Amb.		P S _{NS} L	11	58,4				7800		
" 18	Bat.	II _r	P _E iP i S? F	20	18	39 41 41 0 37				Moluccas.	

Date 1925.	Sta-tion.	Char-acter.	Phase.	Time (Greenwich).			Period.	Amplitude half.		Distance of epi-centrum.	Remarks.
				h	m	s		μ	μ		
Jan 18	Mal.		P S	20	19	7 6			2500		
	Amb.		iP iS	19	57,7				340		
" 20	Amb.		P	12	41,6						
" 20	Amb.		P	12	46,7						
" 21	Mal.		eP i ₁ i ₂	16	58	28 58 10					
			P S	17	1	56 18			370		
" 21	Bat.	I _v	P F	17	5,2					lost in micros. Central Java. MARON: i — iP = 4 ^s . S' — iP = 19 ^s . Δ ? = 160.	
" 22	Amb.		iP	4	17,4					pens swept off immediately.	
" 22	Bat.	I _v	P _E iS F	5	16	2 25			200		
" 25	Bat.	I _r	P F	25	47	37 58				other phases lost by changing of sheets. Bali and Lombok. MARON: S? — P = 57 ^s . Δ = 520?	
	Mal.		P S _N	25	47	55 52			750		
" 25	Amb.		iP _N iS _E	8	5,8				85		
" 25	Amb.		iP iS	8	14,4				480		
" 26	Amb.		iP iS	7	40,5				140		
" 28	Bat.	I _u	P iS L F	4	15	55 11 56 16			6810	AMBOINA: S — P = 7 ^m 54 ^s . Δ = 5990.	
" 30	Bat.	I _v	eP S F	15	17	18 0			370	Central Java.	
	Mal.		P S	15	16	49 20			270	MARON: iS? — iP = 15 ^s . Δ = 150.	
" 31	Bat.	III _r	iP _E i S? F	10	12	24 44 45					
	Mal.		P _E iS _N	10	12	57 29			460		

FEBRUARY.

Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentrum.	Remarks.
								A _E	A _N		
Febr. 1	Bat.	I _u	i eL _N F	h 5 5 6	m 54 54 50	s 20	sec.	μ	μ	km.	Azimuth SW.
	Amb.		i ₁ i ₂	5 5	26.8 33.9						
• 1	Bat.	I _r	e _E i _E S _N F	18 18 18 18	4 4 8 19	43 47 44				2550	Minahasa.
	Amb.		iP iS?	17 17	46.4 47.5					490?	
• 2	Bat.	I _u	e _E L _E F	14 14 14	46 12 25	44 14					
• 2	Bat.	I _u	i ₁ i ₂ eL M F	19 20 20 20 20	57 5 17 32 50	7 27					
• 3	Bat.	I _r	P _N i iS _E L _N F	17 17 17 17 17	23 24 26 31 45	15 18 36 11				2500	
	Mal.		i	17	23	19					
• 3	Bat.	I _v	e _E i _N F	22 22 22	11 12 15	49 35					
• 7	Bat.	I	iP F	18 18	14 55	56					Azimuth SW. Tamako, Great Sangi I.
	Amb.		i ₁ i ₂	18 18	22.9 24.9						
• 7	Bat.	I	i F	20 20	51 40	54					
	Amb.		iP iS	20 20	27.1 27.9					410	
• 9	Bat.	I _u	e i _E i L M F	14 14 14 14 14 15	20 24 28 38 45 10	4 25 58 4 34					Azimuth NNW.
• 11	Amb.		iP iS	0 0	27.4 27.6					100	

Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentrum.	Remarks.
								A _E	A _N		
Febr. 15	Bat.	I _u	i L F	h 14 14 14	m 1 28 38	s 11 29	sec.	μ	μ	km.	
• 16	Bat.	I _v	iP _N iS _E F	20 20 20	29 30 54	49 8				160	Tjiletoeh (Pr. Reg. W. Java).
	Mal.		iP iS	20 20	29 29	41 55				120	
• 20	Bat.	I _u	i ₁ i ₂ eL F	1 1 1 2	13 21 36	2 33					
	Amb.		i ₁ i ₂ L _E eL _N	1 1 1 1	11.4 18.8 24.5 29.5						
• 25	Amb.		iP S?	0 0	18.3 18.5					100	
• 25	Amb.		iP iS	1 1	9.0 9.8					440	
• 24	Bat.	I _u	i _E L F	0 0 1	11 55 11	20					
• 25	Bat.	I	e F	22 22	16 32	32					
	Amb.		i ₁ i ₂	22 22	4.9 8.1						
• 26	Amb.		i ₁	22	28.3						Boela (Ceram, Moluccas).
• 26	Amb.		e i	25 25	37.9 38.9						
• 26	Amb.		P S	7 7	4.8 5.3					260	Boela.

MARCH.

March 6	Bat.	I	i _E i _N F	2 2 2	42 44 55	56 14					
• 6	Bat.	I	e _E F	12 12	46 57	56					
• 12	Bat.	I _v	iP iS F	5 5 5	5 5 8	9 27				140	

Date 1925.	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Period sec.	Amplitude (half).		Distance of epi- centrum. km.	Remarks.
				h	m	s		μ	μ		
March 12	Amb.		iP iS	15	20.4				160		
" 13	Amb.		i ₁ i ₂	5	55.6						
" 15	Bat.	I	i _E i _N eL F	15	49 57					Waingapoe, Timor (?).	
	Mal.		e i	13	49 44						
	Amb.		i ₁	15	50.8						
" 15	Bat.	I	i _E i F	15	44 35						
	Mal.		P S	15	44 26						
	Amb.		i ₁ L	15	44.9	15.5					
" 16	Bat.	I	i F	8	34 29					Waingapoe (Timor).	
	Amb.		iP iS	8	25.5				780		
" 16	Bat.	III	P i _E M F	14	48 46	6.4	122	56.6			
	Mal.		eP i ₁ i ₂	14	48 55						
	Amb.		e i	14	52.0						
" 16	Amb.		iP iS	17	20.5						
" 16	Bat.	I	e i F	23	31 6						
	Amb.		i ₂	23	51.5						
" 16	Bat.	I	e	23	57 6					other phases disturbed by street traffic.	
" 17	Bat.	I	F	0	26						
" 17	Bat.	I	i F	21	16 36						
	Mal.		i	21	16 50						
" 18	Bat.	I	i _E F	14	10 37						

Date 1925.	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Period sec.	Amplitude (half)		Distance of epi- centrum. km.	Remarks.
				h	m	s		μ	μ		
March 18	Amb.		i ₁ i ₂ L	14	0.1						
" 19	Bat.	I	e F	15	42 1	17.9				Atjeh.	
" 19	Amb.		iP iS	21	46.4						
" 20	Bat.	II _v	iP i iS F	5	45 24				280	Goenoeng Kentjana (Bantam, W. Java).	
	Mal.		i _E iP iS	5	45 30				270		
" 20	Mal.		P S	7	11 54				160		
" 20	Bat.	I _v	P S F	7	30 5				150	Banjoemas (C. Java).	
" 20	Bat.	I	P S F	11	5 11				140		
	Mal.		P S	11	5 14				180		
" 20	Bat.	I _v	P S F	14	28 16				180		
	Mal.		P S	14	28 14				140		
" 22	Bat.	I _v	i ₁ i ₂ L _E M F	8	52 15	21	10.0	5.0			
	Mal.		i ₁ i ₂ L	8	52 8						
	Amb.		iP iS	8	50.0				5100		
" 22	Bat.	I	i F	9	50 45						
" 22	Amb.		i L	14	8.5	25					
" 24	Bat.	I _v	iP iS F	19	47 12				170		

Date 1925.	Sta- tion.	Char- acter.	Phase	Time (Greenwich).			Period.	Amplitude (half)		Distance of epi- centrum	Remarks.
				h	m	s		A _E	A _N		
March 24	Mal.		P	19	47	29			290		
			S	19	47	42					
" 24	Bat.	II,	iP	19	59	37			180		
			iS	19	59	58					
			F	20	17						
	Mal.		P	19	59	54			230		
			iS _N	20	0	20					
" 25	Bat.	I	P	5	42	24					
			F	5	47						
	Mal.		eP	5	42	5			200		
			S	5	42	28					
" 26	Bat.	I _r	iP	10	29	53			2420		
			S	10	33	46					
			F	10	52						
	Mal.		iP	10	29	44					
			i	10	30	34					
			i _E	10	34	42					
	Amb.		iP	10	27.4				890		
			iS	10	29.0						
" 27	Bat.	I	P	4	24	8					
			i	4	30	48					
			F	4	36						
" 27	Amb.		iP	10	30.1						
			iS	10	30.7						
" 27	Amb.		iP	12	30.3						
" 27	Amb.		iP	15	24.3						
" 29	Bat.	I	e	21	33	49					
			F	21	56						

SEISMOLOGICAL BULLETIN.

BATAVIA OBSERVATORY.

APRIL - DECEMBER 1925.

1925.	E-W component.			N-S component.		
	V.	T _o .	ε.	V.	T _o .	ε.
April	190	7.8	4.0	188	7.4	4.2
May	"	7.8	3.6	"	7.3	4.2
June	"	7.8	3.0	"	8.0	3.3
July	"	7.4	3.0	"	8.1	3.3
August	"	7.8	3.0	"	8.2	3.3
September	"	7.7	3.1	"	7.9	3.4
October	"	7.9	3.1	"	8.1	3.4
November	"	7.9	3.9	"	8.2	3.7
December	"	8.2	3.7	"	8.4	3.5

APRIL.

N ^o .	Date 1925.	Sta- tions.	Char- acter.	Phase.	Time (Greenwich).			Period sec.	Amplitude (half).		Distance of epi- centre. km.	Remarks.	
					h	m	s		A _E	A _N			
50	April	2	Bat.	I	P	12	56	53				Amboina seismograms lacking till April 7th. Time correc- tions not known.	
					F	12	59						
51	"	7	Bat.	II,	iP	18	10	58			2620	MARON: S - P = 5m, 0 s. △ = 5400.	
					i	18	11	15					
					S	18	15	5					
					F	18	48						
					P	18	10	57					
					iP	18	8.0						
					iS	18	10.0						
—	"	8	Amb.	—	i	18	11.2				1120		
					L	18	48						
					iP	6	54	4					
52	"	8	Bat.	I	P?	15	13	15					
					F	15	16						
					Mal.	P	15	12	41				
						i	15	12	46				
53	"	9	Bat.	I,	P	4	55	14			170	Tjiratjap (Preanger, W. Java).	
					iS	4	55	34					
					F	4	55	1					
					Mal.	P	4	55	13				
						iS	4	55	26				
—	"	10	Amb.	—	P	1	4						

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude half.		Distance of epicentre.	Remarks.					
					h	m	s		μ	μ							
54	April 11	Bat.	II _u	P	10	51	24			km.	MARON: S - P = 7 ^m . 7 ^s .; Δ = 5470.						
				i	10	52	10										
				S	10	52	54										
		Mal.		F	12	21											
				P	10	1	22										
				S	10	58	59										
Amb.		P	10	55	24												
—	» 15	Amb.		iP	25	56.2		150									
				iS	25	56.4											
—	» 15	Amb.		P	2	12.2		160									
				S	2	12.5											
—	» 15	Amb.		P	6	50.6											
55	» 15	Bat.	I	eP	10	28	21										
				F	10	31											
56	» 16	Bat.	I	eP	5	50	16										
				F	5	56											
57	» 16	Bat.	I _v	iP	15	9	9			180	Azimuth \pm NS						
				iS	15	9	50										
		Mal.		F	15	15											
				iP	15	9	2										
58	» 16	Bat.	II _v	P	19	59	0	14		km.	MARON: $i_2 - i_1 = 18^s$ $i_3 - i_1 = 5^m 7^s$ $i_4 - i_1 = 4^m 55^s$ $i_5 - i_1 = 8^m 52^s$						
				i	20	0	21										
				eS	20	4	11										
		Mal.		L	20	9											
				F	20	55											
				P	19	59	7										
		Amb.		eS	20	4	6										
				iP	19	56.8											
		—	» 16	Amb.		S	20					2.4		490			
59	» 16	Bat.	I	eP	25	54	12			1350							
				F	25	40											
		Mal.		P	25	55	0										
				S	25	52.6											
60	» 17	Bat.	I	eP	11	9	58										
				F	11	26											
		Mal.		P	11	9	59										
				P	11	7.7											
61	» 18	Bat.	I	iP	22	24	14										
				F	22	28											
62	» 19	Bat.	I _u	P	15	54	55			4940							
				iS	16	1	28										
—	» 19	Mal.		F	16	9				(4940)							
				P	15	55	5										
				e	16	1	40										

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude half.		Distance of epicentre.	Remarks.					
					h	m	s		μ	μ							
65	April 20	Bat.	I	P	10	26	4			km.							
				F	10	40											
				P	10	25	52										
64	» 21	Bat.	I	iP	10	35	24										
				P	10	22.5											
65	» 22	Bat.	I _r	eP	11	40											
				F	11	44											
66	» 23	Bat.	I _r	P	25	15	41			2650	Halmabeira. MARON: S - P = 5 ^m 29 ^s Δ + 2150.						
				S	25	19	49										
		Mal.		F	25	46											
				P	25	15	51										
		Amb.		S	25	19	51										
				P	25	11.5											
67	» 24	Bat.	I	S	25	12.0				260							
				P	5	59.0											
68	» 25	Bat.	I _r	iP	19	37	50			2450	Taroena (Sangi I).						
				i	19	58	18										
				S	19	41	25										
				F	19	56											
69	» 25	Mal.		P	19	37	28			2520							
				S	19	41	28										
				P	19	55.6											
				iS	19	55.1											
70	» 26	Bat.	I _u	P	25	42	19										
				F	25	50											
71	May 1	Bat.	I	P	25	41	45										
				P	5	28.5											
72	» 25	Amb.		S?	5	28.7				150?							
73	» 25	Bat.	I _r	P	15	27	58			2450							
				S	15	51	55										
		Mal.		F	15	46	19										
				P	15	27	51										
74	» 26	Bat.	I _u	eP	8	55	8			6510							
				S	8	42	58										
		Mal.		L	8	55											
				F	9	11											
75	» 27	Bat.	I _v	P	8	54	40			150							
				P	8	54	40										
		Mal.		iP	5	5	9										
				iS	5	5	26										
76	» 27	Amb.		eP	5	8				(460)							
				F	5	4.5											
		—	» 27	Amb.		iS	5					5	27				
77	» 27	Amb.		P	6	7.6											
78	» 27	Amb.		P	7	0.6											
79	» 27	Amb.		P	25	7.5											
MAY.																	
80	May 1	Bat.	I	i	5	57	42										
				F	4	9											
81	» 1	Mal.		e	5	56	1										

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half).		Distance of epicentre.	Remarks.
					h	m	s		sec.	μ		
		Amb.		iP	5	55,4				2160		
				iS	5	56,0						
72	May 2	Bat.	I.	P	5	51	51			120	Azimuth about EW.	
				iS	5	52	5					
		Mal.		F	5	54						
				P	5	52	0					
75	" 2	Bat.	I.	eP _N	7	55	5					
				eP _E	7	55	10					
				i	7	54	4					
		Mal.		F	7	58						
				P	7	52	52			160		
				S	7	53	9					
				T	7	56						
74	" 2	Bat.	I	P	8	57	27					
				F	8	40						
		Mal.		P	8	56	46			150		
				S	8	57	5					
				F	8	40						
75	" 5	Bat.	III.	eP	17	26	55			2550	Minahasa and Halmahera. MARON: S - P = 5 ^m 57 ^s ; Δ = 2250.	
				iP	17	26	57					
				i ₁	17	27	45					
				i _{2N}	17	30	9					
				S	17	30	54					
				L	17	54						
		Mal.		F	18	15		20		2580		
				eP	17	26	55					
				S	17	30	24					
				L	17	52						
		Amb.		F	17	55				520		
				P	17	21,0						
				S _E	17	22,0						
76	" 5	Bat.	I.	eP	25	8	24					
	" 4			F	0	11						
	" 5	Mal.		P	25	8	24					
				F	25	40						
		Amb.		P	25	17,0						
77	" 4	Bat.	I.	eP	4	5	45			2760	Minahasa and Halmahera.	
				S _N	4	10	2					
				L	4	15		20				
		Mal.		F	4	24						
				P	4	5	10			650		
		Amb.		P	4	1,6						
				S	4	5,8						
78	" 4	Bat.	I	eP	9	47,4						
				F	9	59						
		Mal.		P	9	47,5						
		Amb.		P	9	44,0						
79	" 4	Bat.	I	P	11	55	51				Awisang, Western Central Celebes.	
				F	11	54						
		Mal.		P	11	55	44					
		Amb.		P	11	52,7						
	" 4	Amb.		P	15	29,7				44		
				S	15	29,8						

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentre.	Remarks.
					h	m	s		sec.	μ		
80	May 5	Bat.	III.	P	10	11	15				2650	Azimuth NE. MARON: S - P = 4 ^m 1 ^s ; Δ = 2550.
				S	10	15	21					
				M _E	10	17	9					
				L	10	19						
				P	10	45	2				2710	Aftershock.
				S	10	49	16					
		Mal.		P	10	11	16				2710	
				S	10	15	50					
				L	10	19						
				P	10	44	54					Aftershock.
		Amb.		P	10	8,5					2000?	
				S?	10	11,6						
81	" 5	Bat.	I.	P	12	5	55				2820	MARON: S - P = 4 ^m 1 ^s ; Δ = 2550.
				S	12	7	58					
				F	12	41						
		Mal.		P	12	5	59				2730	
				S	12	7	54					
82	" 5	Bat.	I.	P	12	49	49				2770	
				S	12	54	7					
				F	15	9						
		Mal.		P	12	49	49					
85	" 5	Bat.	I	P	15	51	55					
				F	15	54						
84	" 5	Bat.	I	P	16	28	50					
				F	16	59						
		Mal.		P	16	28	52					
85	" 5	Bat.	I	P	18	21	12					
				F	18	56						
		Mal.		P	18	21	2					
86	" 5	Bat.	II.	P	25	25	49				2550	Minahasa and Halmahera. MARON: S - P = 5 ^m 54 ^s ; Δ = 2440.
				S	25	29	54					
				L _E	25	54	56	20	1700			
				F	0	16						
		Mal.		eP	25	25	47				2520	
				S	25	29	47					
				L	25	55						
				P	25	57						
		Amb.		F	25	56						
				P	25	20,7					1210	
				iS	25	22,8						
87	" 6	Bat.	I.	P	1	58						Traces. Banda and Waigama (Misool, Western New Guinea) Azimuth ESE.
		Amb.		P	1	50,5					200	
				S	1	50,7						
88	" 6	Bat.	I.	P	5	5	25					Minahasa and Tidore (Ternate).
				L	5	11						
				F	5	18						
		Mal.		P	5	5	8					
		Amb.		P	4	59,7					680	
				S	5	0,9						
89	" 6	Bat.	I	P	8	52						Traces.

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentre.	Remarks.
					h	m	s		μ	μ		
90	May 6	Bat. Amb.	I _r	P	9	57				360	Traces. Manado.	
				P	9	53.0						
				S	9	54.0						
91	" 7	Bat.	II _v	i ₁	6	4	26				Azimuth N 54.2 E. Central Java. MARON: S — P = 55°; $\Delta = 310$.	
				i ₂	6	4	47					
				i ₃	6	5	18					
				i ₄	6	5	44					
		Mal.		F	6	18				150?	Needles thrown off.	
				iP	6	4	9					
				iS _E ?	6	4	26					
92	" 7	Bat.	I _v	iS	10	25	45				Troubled by street traffic. Central Java.	
				F	10	28				90		
		Mal.		iP	10	25	2					
				iS	10	25	15					
93	" 7	Bat.	I	eP	12	17	21					
				F	12	34						
94	" 7	Bat.	I _r	P	14	39	49					
				L	14	50						
				F	15	8						
		Mal. Amb.		P	15	39	47					
				i	14	51,7						
	" 7	Amb.		i	15	17,8						
95	" 7	Bat.	I _r	P	15	47	42					
				F	15	56						
		Amb.		i	15	44,7						
	" 7	Amb.		P	18	21,1				520		
				S		21,7						
96	" 7	Bat.	I _v	P	18	52	59			680		
				i ₁	18	55	20					
				i ₂	18	55	52					
				S	18	54	12					
		Mal.		F	19	2				620		
				P	18	55	11					
				S?	18	55	59					
				i _N	18	54	18					
97	" 8	Bat.	I	P	11	45	12					
					11	47						
98	" 9	Bat.	I _r	eP	5	42,5				2550	Laboeha (Batjan).	
				S	5	46	18					
				F	5	56						
		Mal. Amb.		P	5	42	0			720		
				iP	5	58,9						
				iS	5	40,2						
99	" 9	Bat.	I	P	21	46	48					
				F	21	50						
100	" 10	Bat.	I _r	e	5	5,9					Minahasa and Ternate.	
				F	5	17						
		Mal.		P	5	5	28					
		Amb.		P	5	2,1				410		
				S	5	2,9						

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentre.	Remarks.
					h	m	s		μ	μ		
101	May 15	Bat.	I	e	8	17					Traces troubled by micros.	
102	" 15	Bat.	I	P	25	59	48					
	" 14			F	0	27						
	" 13	Mal.		P	25	59	59					
105	" 14	Bat.	I	P	15	24	54					
				F	15	36						
		Mal.		eP	15	24	50					
104	" 15	Bat.	I _v	P	2	42	16			150	Western Preanger.	
				i _E	4	42	29					
				iS	2	42	55					
				i	2	45	26					
		Mal.		iP	2	42	14			160		
				iS	2	42	52					
103	" 15	Bat.	I	P	12	16	48					
				F	12	55						
		Mal. Amb.		P	12	16	44				Azimuth E S E.	
				i	12	16,9						
106	" 16	Bat.	I	e	2	51						
		Mal.		P	2	29	50					
107	" 16	Bat.	I	e	10	57						
		Mal.		P	10	55	42					
	" 16	Amb.		iP	12	20,0				80		
				iS	12	20,2						
108	" 17	Bat.	I _v	P	15	51	55			170	Tjibinong (W. Preanger)	
				S	15	52	15					
				F	15	56						
		Mal.		iP	15	51	47			85		
				iS	15	51	57					
				F	15	55						
109	" 18	Bat.	I	P	8	19,2						
				F	8	26						
		Mal.		eP	8	19,0						
110	" 19	Bat.	I _u	P	5	55	7			5770	MARON: S — P = 7° 55°; $\Delta = 6010$.	
				S	5	40	50					
				L	5	48,6						
				F	6	9						
		Mal. Amb.		P	5	55	6					
				i	5	56,5				7550		
				iS	5	45,2						
				L	5	50,5						
	" 19	Amb.		iP	9	20,1				550		
				iS	9	20,7						
111	" 25	Bat.	I _u	P	2	18	45			5580		
				S	2	25	45					
				L	2	42						
				F	3	5						
		Mal. Amb.		P	2	18	44					
				i _N	2	17,6				4100		
				i _E	2	17,7						
				iS _N	2	25,5						
				iS _E	2	25,4						
				L	2	27						

No.	Date 1925.	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Periode.	Amplitude (half).		Distance of epi- centre.	Remarks.
					h	m	s		sec.	μ		
112	May 23	Bat.	I _v	iP	6	35	57				150	W. Preanger.
				iS	6	35	54					
				F	6	42						
		Mal.		P	6	55	44				150	
				S	6	54	1					
				F	6	58						
115	" 24	Bat.	I _v	iP	25	51	49				200	Vlakte Hoek (Benkoelen). MARON: S - P = 1 ^m ?; Δ = 550?
				iS	25	52	12					
				F	25	41						
		Mal.		P	25	52	1				520	
				S	25	52	57					
114	" 25	Bat.	II _r	P	3	48	22				2890	Azimuth N E. MARON: S - P = 5 ^m 58"; Δ = 2490.
				S	3	52	49					
				L	3	55						
		Mal. Amb.		P	3	48	30					
				i	3	48,7						
				L	3	54,1						
115	" 26	Bat.	I	P	15	55	46					
				F	15	58						
116	" 27	Bat.	I _u	P	2	58	16				5100	
				S	2	45	2					
				F	2	55						
		Mal. Amb.		P	2	58	27				5070	
				S	2	45	11					
				iP	2	58,2						
		iS	2	45,6				3800				
117	" 28	Bat.	I _v	P	4	15					Traces. Benkoelen.	
118	" 28	Bat.	I	P	6	4	44				6140?	
				iS?	6	12	25					
				F	6	55						
		Mal.		P	6	4	42				6270?	
				S?	6	12	30					
119	" 29	Bat.	I	P	9	44	46					
				F	9	47						
		Bat.		P	9	44	57					
120	" 30	Mal.	I	P	22	21	22					
				F	22	25						
				P	22	21	1					
JUNE.												
121	June 2	Bat.	I _v	iP	1	47	9				270	Southern Sumatra. Azimuth E S E.
				iS	1	47	40					
		Mal.		P	1	56						
				F	1	47	25					
122	" 2	Bat.	I _r	e	5	28,2				4300?		
				S	5	56	3					
				F	5	45						
—	" 3	Amb.		i	4	2,8						

No.	Date 1925.	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epi- centre.	Remarks.
					h	m	s		μ	μ		
123	June 3	Bat.	III _r	P	4	38	59	sec.	μ	μ	km.	Minahasa and Ternate. MARON: S? — iP = 3,8 ^m Δ = 2540?
				i	4	39	32					
				S	4	42	43					
		Mal.		L	4	47	41					
				F	5	47						
				P	4	38	55					
		Amb.		S	4	42	50					
				i	4	50	8					
				F	5	20						
				iP	4	37,4						
				i	4	37,5						
				S	4	38,5						
124	" 4	Bat.	I	i	7	5	45	17			120	Minahasa.
				F	7	15						
		Amb.		i	6	58,9						
—	" 5	Mal.		P	15	45	54					
				iS	15	45	48					
				F	15	46						
125	" 8	Bat.	I	P	0	3						
				M	0	17						
				F	0	37						
—	" 8	Mal		P	15	29	23					
				S	15	29	37					
126	" 9	Bat.	II _r	P _E	15	47	12	17			4380?	N E New Guinea. MARON: iS — P = 5 ^m 38 ^s Δ = 4040.
				i ₁	15	48	37					
				i ₂	15	49	50					
				S?	15	53	12					
				L	14	2						
				F	15	16						
				P	15	47	21					
		Mal.		i	15	49	8					
				eL	15	53						
				F	14	20						
		Amb.		P	13	45,5						
				S	13	50,6						
—	" 9	Mal.		P	21	25	25					
				S	21	25	29					
127	" 11	Bat.	I	P	16	4	58					
				F	16	19						
128	" 12	Bat.	I _v	P	11	5	32	17			700	
				S	11	6	48					
				F	11	47						
		Amb.		P _E	11	4,1						
				i _N	11	4,8						
				S	11	7,9						
129	" 13	Bat.	I _v	i	11	8,1						
130	" 14	Bat.	I	P _N	12	30	0	17			260	
				iS	12	30	30					
				F	12	33						
130	" 14	Bat.	I	P	16	55	33	17			250?	
				S?	16	56	1					
				F	17	3						

No.	Date 1925.	Station	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half).		Distance of epicentre.	Remarks.
					h	m	s		sec.	μ		
—	June 16	Mal.		iP?	20	20	50					
—	" 17	Mal.		P	6	6	52			50		
				iS	6	6	57					
131	" 17	Bat.	I	iP	21	57	42			150	West Preanger (Java).	
				iS	21	57	57					
				F	12	41				170		
		Mal.		iP	21	57	52					
				iS	21	58	12					
—	" 19	Mal.		P	22	19	15			90		
				iS	22	19	24					
132	" 20	Bat.	I	P	15	20	31					
—	" 25	Mal.		eP	17	24	40			200		
				iS	17	45	3					
—	" 24	Amb.		iP	16	56,7				250		
				S	16	57,1						
—	" 25	Amb.		P	16	2.2				60		
				S	16	2.5						
—	" 26	Amb.		P	20	55.6				540	Minahasa.	
				S	20	56.6						
133	" 27	Bat.	I	P	2	20						
134	" 28	Bat.	I _u	eP	1	45	28					
				L	2	36						
				F	5	7						
135	" 28	Bat.	I	i	6	28	6					
				F	6	57						
136	" 28	Bat.	I	i	15	47					i in hour mark	
				F	14	15						
—	" 30	Mal.		P	21	51	55					

JULY.

—	July 1	Mal.		P	1	10	16			150		
				iS	1	10	34					
137	" 4	Bat.	I _u	P	9	18	15			5190	P in minute mark.	
				S	9	25	30					
				L	9	34						
				F	9	47						
		Mal.		P	9	18	34			5160		
				S	9	25	24					
				F	9	31						
		Amb.		P _E	9	16.6						
				i	9	17.2						
				i	9	21.2						
				i _N	9	21.9						
				L	9	28.0						
138	" 4	Bat.	I _r	e	22	21	54					
				F	22	37					Tomohon (Menado).	

No.	Date 1925.	Station	Character	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentre.	Remarks.
					h	m	s		sec.	μ		
		Mal.		eP	22	21	37			2500		
				S	22	25	36					
		Amb.		iP	22	18,6				690		
				i	22	19,5						
				S	22	19,9						
139	July 6	Bat.	I	iP	7	15	44					
				i	7	24	27					
140	" 6	Bat.	I	eP	12	27	23					
				i	12	39	26					
141	" 6	Bat.	II	iP	21	59	28			260		
				iS	21	59	57					
				F	21	52						
		Mal.		P	21	59	28			200		
				S	21	59	51					
142	" 7	Bat.	I	iP	5	50	46			510		
				S	5	51	42					In minute mark.
				F	5	55						
143	" 7	Bat.	I	P	8	23	32					
				F	8	37						
144	" 7	Bat.	I	P	14	51						
				F	14	41						
—	" 9	Mal.		P	12	25	59			80	Tjikentjreng (E. Preanger).	
				iS	12	25	48					
				F	12	25						
—	" 12	Amb.		P	4	57,8						
145	" 12	Bat.	I	P	18	56	44			550	Central Java.	
				S	18	57	42					MARON: iS — iP = 19 ^s
				F	18	39						$\Delta = 160.$
		Mal.		eP	18	36	54			250		
				iS	18	37	2					
				F	18	39						
—	" 12	Mal.		eP	20	51,6				380		
				S	20	52	18					
—	" 15	Mal.		iP	17	59	9			90		
				iS	17	59	20					
—	" 14	Amb.		iP	10	29,7				160		
				iS	10	30,0						
—	" 15	Mal.		iP	8	2	4			40		
				iS	8	2	9					
—	" 16	Mal.		P	11	57	23					
				F	11	39						
146	" 17	Bat.	I	P	5	21,4						
				F	5	41						
		Amb.		P	5	19,1				2160		
				S	5	22,6						
147	" 17	Bat.	III	iP	16	59	59			550	Vlakte Hoek (S. Sumatra).	
				i	17	0	12					



No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period	Amplitude (half)		Distance of epicentre.	Remarks.									
					h	m	s		A _E	A _N											
148	July 17	Bat.	I	iS	17	0	37	36	μ	μ	km.										
				i	17	0	52														
				F	17	28															
				P	17	0	10														
				i	17	0	51														
149	" 17	Bat.	I	e	21	14	16.7	36	μ	μ	km.										
				L	21	58															
				F	21	47															
				iP _E	21	10,1															
				L	21	13,0															
150	" 25	Bat.	I	eP	22	38,9															
				F	22	37															
				151	" 26	Bat.							I	P	0	50	700				
														i	0	50					
														S	0	51					
152	" 28	Bat.	I	F	0	57															
				eP	0	50															
				i	0	51															
				F	0	55															
				153	Aug. 1	Bat.							I	P	4	42	490				
F	4	58																			
iP	4	38,6																			
iS	4	39,5																			
154	" 3	Bat.	I				P	10	9	(250)											
				F	10	12															
				155	" 8	Bat.	I	P	12				20				110				
								i	12				20								
								S	12				20								
156	" 17	Bat.	I	e	21	14	16.7	36	μ	μ	km.										
				L	21	58															
				F	21	47															
				iP _E	21	10,1															
				L	21	13,0															

AUGUST.

153	Aug. 1	Bat.	I	P	0	9	500				Benkoelen (S. Sumatra).									
				S	0	10														
				F	0	13														
				154	" 1	Amb.							P	4	34,6					
													i	4	56,9					
155	" 5	Bat.	I	P	12	20	110					S W - Salak (Preanger Java).								
				i ₁	12	20														
				i ₂	12	21														
				F	12	23														
				156	" 8	Amb.								i ₁	3	41,9				
i ₂	3	42,2																		
157	" 8	Bat.	I				P	12	20	110						S W - Salak (Preanger Java).				
				i ₁	12	20														
				i ₂	12	21														
				F	12	23														
				158	" 9	Amb.		P	12				20							
i	12	20																		
S	12	20																		

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentre.	Remarks.										
					h	m	s		A _E	A _N												
156	Aug. 5	Bat.	I	eP	20	25	0	6.2	624	360	S W Salak.											
				F	20	26																
157	" 5	Bat.	II	i	21	31	25	6.2	624	360	140?	S W Salak.										
				P	21	31	31															
				iS?	21	31	41															
				i	21	32	21															
				M	21	32	58															
158	" 6	Bat.	I	P	6	38	44					S W Salak.										
				F	6	40																
				159	" 6	Bat.	I						i ₁	3	12	2					S W Salak.	
													P	3	12	7						
													i ₂	3	12	58						
160	" 6	Bat.	I	F	3	14						S W Salak.										
				P	3	12	10															
				S	3	12	26															
				161	" 6	Bat.	I						P	14	29	54					S W Salak.	
													F	16	36							
162	" 7	Bat.	I					iP	19	49,6	580				Azimuth W N W.							
				iS	19	50,5																
				163	" 8	Bat.	I	P	8	8						4					5360	
								iS	8	15						14						
								F	8	42												
164	" 8	Bat.	I	P	8	7	39					2740										
				S	8	13	15															
				F	8	28																
				165	" 8	Bat.	I						iP	8	9,5	500				Azimuth N 52.8 W.		
													iS	8	9,9							
166	" 9	Bat.	I					eP	3	20	20										Felt Tapanoeli N. Sumatra.	
				F	3	27																
				167	" 9	Amb.		P	8	45	25									320		
								F	8	50												
								168	" 9	Bat.	I											eP
F	14	46																				
169	" 9	Amb.		iP	11	10,6																
				F	11	13																
				170	" 9	Bat.										I	iP	11	26,0	110		
iS	11	26,6																				
171	" 9	Mal.					P	12	42	22												
							eS	12	46	14												
							F	12	54													
172	" 9	Mal.		P	12	42	19															
				eS	12	46	14															
				F	12	54																

N ^o .	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half).		Distance of epicentre.	Remarks.
					h	m	s		A _E	A _N		
		Amb.		P	12	32.9						
				i ₁	12	35.0						
				i ₂	12	33.4						
—	Aug. 12	Amb.		i	12	15.9					Azimuth N 58.8 W.	
167	• 12	Bat.	I	P	14	16 54					Sumatras West Coast.	
				F	14	23						
168	• 12	Bat.	I _r	P	16	59 53						
				F	17	5						
169	• 12	Bat.	I _v	e _E	17	48.4					Traces.	
				F	17	51					Felt in mountain ranges	
		Mal.		P	17	46 59				80?	of Batavia (Segalaherang	
				S?	17	46 48					and Soekawana, Preanger).	
—	• 12	Mal.		P	17	58 56				120	Aftershock of 169, felt at	
				i	17	58 41					Serang-Sari.	
				iS	17	58 50						
170	• 13	Bat.	I _v	P	16	19 50						
				F	16	22						
		Mal.		P	16	19 20						
171	• 15	Bat.	I _v	eP	25	55 45				450	Central Java.	
				S	25	56 51					MARON. S? — iP = 13 ^s	
				F	25	59					Δ = 110?	
		Mal.		P	25	55 44				200		
				S	25	55 7						
				F	25	57						
172	• 13	Bat.	I _v	P	4	19 1				7080		
				S	4	27 31						
				L	4	38 11						
				F	4	48						
		Mal.		P	4	18 49						
				F	4	28						
173	• 14	Bat.	I	P	6	27 54						
				F	6	45						
				P	6	27 26						
174	• 14	Bat.	I _r	P	9	22 24				190	Minahasa, N. Celebes.	
				eS	9	25 35						
				F	9	36						
		Amb.		P	9	19.5				440		
				i	9	19.9						
				iS	9	20.0						
175	• 14	Bat.	I _v	e	11	5					Central Java.	
				F	11	9					MARON. iS — iP = 18 ^s	
		Mal.		P	11	5 29				520	Δ = 160.	
				S	11	6 6						
				F	11	9						
176	• 16	Bat.	I	i	10	1 25						
				F	10	8						
177	• 16	Bat.	I	P	20	38 46					Ardjosari (S E Batavia).	
				F	20	40						
178	• 16	Bat.		P	21	22 25						
				F	21	26						
—	• 17	Amb.		P	8	26.7				1000		
				iS	8	28.5						

N ^o .	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half).		Distance of epicentre.	Remarks.
					h	m	s		A _E	A _N		
—	Aug. 17	Amb.		P	8	26.7					1000	
				iS	8	28.5						
179	• 17	Bat.	I	i	9	29 9						
				F	9	54						
—	• 19	Mal.		P	11	57 36						
				F	12	0						
180	• 19	Bat.	I _v	P	12	20 40					7570	
				S	12	29 55						
				L	12	45						
				F	15	34						
		Mal.		L	12	54						
		Amb.		e	12	11.2					7100	
				iS	12	19.7						
				L	12	28						
—	• 20	Amb.		iP	16	35.2					920	
				S	16	34.9						
—	• 24	Mal.		iP	7	41 52						
181	• 28	Bat.	I _v	P	5	14 1					420	
				S	5	14 48						
				F	5	17						
		Mal.		iP	5	14 21					110	
				iS	5	14 54						
				F	5	15						
182	• 31	Bat.	I	L	10	21						
SEPTEMBER.												
—	Sept. 1	Amb.		P	17	4.1					90	
				iS	17	4.5						
183	• 1	Bat.	I _v	P	15	41 54					160	
				iS	15	44 52						
				F	15	44						
184	• 1	Bat.	I _v	P	15	57 22					400	Benkoelen (S. Sumatra).
				S	15	58 7						
				F	16	5						
185	• 2	Bat.	I _v	P	14	17 59					150	Preanger and Banjoemas (W. Java).
				S	14	18 16						
				F	14	21						
		Mal.		iP	14	17 31					110	
				iS	14	17 44						
				F	14	52						
—	• 3	Amb.		P	7	56.4					250	
				iS	7	56.9						
—	• 9	Amb.		iP	21	26.7						
				iS	21	26.8					15?	Amboina.
186	• 10	Bat.	I	e	15	6.4						
				F	15	25						

No.	Date 1925	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half).		Distance of epi- centre.	Remarks.
					h	m	s		A _E	A _N		
—	Sept. 26	Amb.		c P i S	11	0.7				1110		
192	" 26	Bat	I	i P F	11	44	54					
195	" 29	Bat.	I _v	P S F	12	17	6			180		
OCTOBER.												
194	Oct. 1	Bat.	I	P F	6	50	0					
		Mal.		P F	6	29	24					
195	" 2	Bat.	I _r	P S F	4	40	41			2140	Ternate, Minabasa.	
		Mal		P F	4	54						
		Amb.		P i i S	4	40	51			680		
				P i	4	48						
				P	4	57.5						
				i	4	57.6						
				i S	4	58.5				640		
—	" 2	Amb.		P S	10	2.3						
				S	10	5.6						
196	" 5	Bat.	I	P F	11	21	14					
197	" 5	Bat.	I	P i ₁ i ₂ i ₃ F	4	28	57					
				P	4	29	12					
				i ₁	4	50	13					
				i ₂	4	40	57					
				i ₃	4	40	57					
		Mal.		e P i F	5	7						
				P	4	29	4					
				i	4	40	20					
		Amb.		F P S	4	46				200		
				P	4	25.1						
				S	4	25.5						
—	" 6	Mal.		P F	17	55	47					
				F	17	55						
198	" 7	Bat.	I _v	i P i S F	20	6	46			200	Java's 1ste Punt and Vlakke Hoek (S. Sumatra).	
		Mal.		i P i S	20	7	9			510		
				F	20	13						
				i P	20	7	0					
				i S	20	7	53					
—	" 8	Amb.		P i	11	41.5						
				i	11	41.9						
—	" 9	Amb.		e i ₁ i ₂	6	41.6						
				e	6	45.0						
				i ₁	6	45.0						
				i ₂	6	55.6						
—	" 9	Mal.		P F	14	51	54					
				F	14	52						

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period	Amplitude half.		Distance of epicentre.	Remarks.															
					h	m	s		μ	μ																	
199	Oct. 12	Bat.	I _v	iP	1	21	27			km.	Benkoelen (S. Sumatra).																
				i ₁	1	21	59																				
				i ₂	1	22	25																				
				i ₃	1	25	2																				
		Mal.		eP	1	21	46																				
				F	1	26																					
200	" 12	Bat.	I _u	P	5	54	0	28 20 19	5540 474 —	618	5790	Disturbed by street traffic.															
				S _E	6	1	24																				
				S _N	6	1	32																				
		Mal.		F	6	55																					
				P	5	54	0																				
				S	6	0	56																				
				F	6	50																					
201	" 15	Bat.	I _u	P	18	0	28	28 20 19	5540 474 —	618	4950																
				L	18	51	55																				
				M _E	18	55	41																				
				M _E	19	2	51																				
				M _N	19	7	16																				
		Mal.		F	19	40																					
				P	18	0	54																				
				F	19	50																					
		Amb.		i ₁	18	0.1																					
				i ₂	18	5.5																					
				L	18	26																					
202	" 14	Bat.	I	P	8	47	57						28 20 19	5540 474 —	618	500	Traces.										
				F	8	50																					
205	" 14	Bat.	I	iP	11	59	11	28 20 19	5540 474 —	618	500	Traces.															
				F	11	42																					
204	" 14	Bat.	I	e	17	25	58											28 20 19	5540 474 —	618	500	Traces.					
				F	17	52																					
		Amb.		P	21	47.2																					
				iS	21	47.8																					
		Amb.		iP	7	16.5																					
				iS	7	16.8																					
203	" 15	Bat.	I _u	P	12	45	6																28 20 19	5540 474 —	618	180	Bantam (W. Java). Azimuth iS: about NS.
				i _E	12	55	6																				
				i _N	12	55	25																				
		Mal.		F	13	16																					
				P	12	45	58																				
				eL	12	56																					
				F	15	5																					
206	" 15	Bat.	I _v	iP	14	42	22	28 20 19	5540 474 —	618	190	Bantam (W. Java). Azimuth iS: about NS.															
				iS	14	42	45																				
				F	14	49																					
		Mal.		P	14	42	26																				
				S	14	42	48																				
				F	14	47																					
207	" 17	Bat.	I _v	eP	9	41	19								km.	Benkoelen (S. Sumatra).											
				i ₁	9	42	6																				
				i ₂	9	42	45																				
				i _E	9	42	48																				
				F	9	51																					

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude half.		Distance of epicentre.	Remarks.			
					h	m	s		μ	μ					
208	Oct. 18	Bat.	II _v	iP	8	51	0	21		km.	Azimuth W N W. Moluccas.				
				i _N	8	51	45								
				iS	8	54	59								
		Mal.		F	8	56									
				P	8	50	55								
				S	8	54	54								
				F	8	46									
		Amb.		P	8	0.5									
				S	8	1.8									
209	" 20	Bat.	I _v	e ₁	9	49	55					21		km.	Dobo (Aroe I, Moluccas).
				e ₂	9	55	42								
				F	10	4									
210	" 20	Bat.	I	e	17	56		21		km.	Benkoelen. Pens thrown off. 17 ^h 4 ^m 4 ^s . MARON: S? — iP = 2 ^m 5 ^s △ = 1190?.				
211	" 22	Bat.	III _v	iP	17	2	45								
				iS	17	5	50								
				iP	17	2	47								
				iS	17	5	28								
		Mal.		iP	17	5	1								
				iS	17	5	56								
		Amb.		P _E	17	6.1									
				i ₁	17	6.6									
				i ₂	17	7.2									
				i _N	17	10.1									
				L	17	11									
212	" 25	Bat.	I _v	P	1	49	42	21		km.	Eastern Java, Bali, Lombok. MARON: iS — iP = 59 ^s △ = 540.				
				S	1	51	16								
				F	5	0									
		Mal.		P	1	49	22								
				S	1	50	44								
				F	2	40									
		Amb.		iP	1	51.5									
				iS	1	54.5									
215	" 24	Bat.	I _v	P	19	24	53					21		km.	Central and East Java. MARON: iS — iP = 20 ^s △ = 170.
				S	19	25	48								
				F	19	55									
		Mal.		P	19	24	51								
				S	19	25	4								
				F	19	51									
214	" 25	Bat.	II _v	P	0	26	17	21		km.	Sangi and Taland I, Hal- maheira.				
				S	0	50	14								
				i	0	51	4								
				F	0	51									
		Mal.		eP	0	26	50								
				i ₁	0	50	50								
				i ₂	0	57	27								
				F	0	42									
		Amb.		iP	0	22.9									
				i _E	0	25.0									
				iS?	0	23.9									
				i	0	24.2									
215	" 26	Bat.	I	e	6	58		21		km.	Bantam.				
				F	6	43									
216	" 29	Bat.	I _v	P	1	27	55					21		km.	Bantam.
				S	1	27	55								
				F	1	50									

No.	Date 1925.	Station.	Char-acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epi-centre.	Remarks.
					h	m	s		sec.	μ		
		Mal.		P	1	27	47				150	
				S	1	28	2					
				F	1	51						
217	Oct. 50	Bat.	I _o	eP	11	7	10				2570	
				S	11	11	14					
				F	11	21						
		Mal.		P	11	7	24				2590	
				S	11	11	29					
				F	11	14						
		Amb.		i	11	5.9						
218	" 50	Bat.	I	eP	14	51	10				5950	
				S	14	58	42					
				F	15	7						
		Mal.		P	14	51	5				5710?	
				S?	14	58	25					
				F	15	5						
		Amb.		i	14	50.5						
219	" 50	Bat.	I	P	15	16	51				550	
				iS	15	17	9					
				F	15	21						
		Mal.		P	15	16	48				510	
				S	15	17	25					
				F	15	20						
220	" 50	Bat.	II _v	P _E	19	8	24				580	
				iS	19	9	7					
				F	19	25						
		Mal.		P	19	8	42				500	
				S	19	9	57					
				F	19	17						
NOVEMBER.												
221	Nov. 1	Bat.	I _v	P	0	26	44				490	F lost in changing sheets.
				S	0	27	58					
		Mal.		P	0	26	28					
				F	0	52						
222	" 2	Bat.	I	P	15	25	54					
				F	15	27						
		Mal.		P	15	25	55				140	
				iS	15	25	51					
				F	15	27						
225	" 2	Bat.	II _v	P	16	58	15				200	Azimuth E S E. Preanger.
				iS	16	58	58					
				F	17	21						
		Mal.		P	16	58	50				420?	
				iS?	16	59	17					
				F	17	5						
224	" 5	Bat.	I _v	P	18	1	56				150	Preanger. MARON: S -- P = 42 ^s $\Delta = 370.$
				S	18	1	55					
				F	18	6						
		Mal.		iP	18	1	40				90	
				iS	18	1	50					
				F	18	4						
--	" 5	Mal.		P	20	2	27				80	
				iS	20	2	38					
				F	20	4						

No.	Date 1925.	Station.	Char-acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epi-centre.	Remarks.
					h	m	s		sec.	μ		
223	Nov. 6	Bat.	I	P	5	57	44					
				F	5	47						
		Mal.		P	5	57	16					
--	" 7	Amb.		P	16	25.4						
				i	16	24.5						
226	" 8	Mal.	I	eP	5	45	25					
				F	6	9						
227	" 8	Bat.	I _v	P	25	27	18				170	
				iS	25	27	58					
				i ₁	25	28	19					
				i ₂	25	28	58					
		Mal.		P	25	27	26				210	
				iS	25	29	49					
				F	25	52						
228	" 10	Bat.	III _r	e _E	13	55	45				2890	Azimuth iP: N 81° E. Moluccas. MARON: iS -- P = 5 ^m 5 ^s $\Delta = 2240.$
				iP	13	55	51					
				S	14	0	18					
				L ₁	14	8	56					
				L ₂	16	49	18		20.5			
				F	17	7						
		Mal.		P	15	55	46				2740	
				S	14	0	2					
				L	14	5						
				F	15	22						
		Amb.		iP	15	55.8					500?	Azimuth iP: S 55.8° W. Pens thrown off. E 15 ^h 55.0 ^m N 15 ^h 55.4 ^m
				S?	15	54.4						
229	" 15	Bat.	I _r	P	0	27	18				1120	
				iS	0	29	17					
				F	0	39						
		Mal.		P	0	27	8				1070	
				S	0	29	1					
				F	0	52						
250	" 15	Bat.	III _r	iP	12	20	25				5250	Azimuth iP: N 49° E. MARON: S? -- iP = 5 ^m 41 ^s $\Delta = 2270?$
				S	12	25	11					
				i _E	12	28	6					
				i _N	12	28	31					
				L	12	50	48					
				M _E	12	51	46					
				e	14	6	31					
				L	15	14	6					
				F	15	29						
		Mal.		P	12	20	25				5200	
				S	12	25	11					
				i ₁	12	25	59					
				i ₂	12	26	58					
				L	12	50						
				F	15	40						
		Amb.		iP	12	20.8						
				i _E	12	25.5						
				i	12	25.8						
251	" 14	Bat.	I _r	P	8	16	51					Azimuth SW MARON: eS -- P = 4 ^m 41 ^s
				i _E	8	19	52					
				F	8	59						

No	Date 1923	Station	Character	Phase	Time (Greenwich)			Period	Amplitude (half)		Distance of epicentre	Remarks
					h	m	s		μ	μ		
252	Nov. 14	Bat.	I _r	P	10	9	9					MARON: S — P = 5 ^m 18 ^s $\Delta = 1990.$
					i _E	10	11					
		Mal.		F	10	14	47					
					e	10	9					
255	" 14	Bat.	I _r	eP	14	42	29					
					i	14	47					
				F	15	25						
254	" 15	Bat.	I _v	i ₁	19	56	42	7.4				In minute mark.
					i ₂	19	56					
				i ₃	19	57	55	5.0				Fore shock of No. 258.
					F	19	59					
253	" 15	Bat.	I _v	i ₁	19	44	22	7.4				Fore shock of No. 258.
					i ₂	19	44					
				i ₃	19	45	17	5.0				
					F	19	46					
256	" 15	Bat.	I _v	P _E	21	50	11					
					F	21	52					
257	" 16	Bat.	I _v	i ₁	9	10	14	7.4				Fore shock of No. 258.
					i ₂	9	10					
				i ₃	9	11	8	5.0				
					F							
258	" 16	Bat.	I _v	i ₁	9	12	41	7.4				Buitenzorg and Tjitjoeroeg (W. Java).
					i ₂	9	12					
		Mal.		P?	9	16						
					F	9	12					
259	" 16	Bat.	I _v	i ₁	9	41	18	7.4				Aftershock of No. 258.
					i ₂	9	41					
				i ₃	9	42	15	5.0				
					F	9	45					
240	" 16	Bat.	I _v	i ₁	9	50	16	7.4				Aftershock of No. 258.
					i ₂	9	50					
				F	9	52						
241	" 16	Bat.	I _v	i ₃	10	8	47					Aftershock of No. 258.
					F	10	10					
242	" 16	Bat.	I _v	i ₁	10	22	29	7.4				Aftershock of No. 258.
					i ₂	10	22					
				i ₃	10	25	24	5.0				
					F	10	26					
245	" 16	Bat.	I _v	i ₁	10	59	50					Aftershock of No. 258.
					F	10	42					
244	" 16	Bat.	I	iP	12	14	57					
					i _N	12	15					
		Mal.		F	12	19	12					
					P	12	47					
				F	12	14	55					
						12	20					

No.	Date 1923.	Station.	Char-acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epicentre.	Remarks.
					h	m	s		μ	μ		
243	Nov. 16	Bat.	I _u	L	15	29						
246	" 16	Bat.	I _v	i ₁	18	15	4	7.4				Tjitjoeroeg (W. Preanger). Aftershock of No. 258.
					i ₂	18	15					
				F	18	18						
247	" 17	Bat.	I _v	i	6	6	57					Aftershock of No. 258.
					F	6	8					
248	" 17	Bat.	I _v	eP	6	20	48					
					F	6	23					
249	" 17	Bat.	I	iP	21	29	51					Azimuth S W.
					F	21	55					
		Mal.		P	21	59	59					
					i	21	50					
				F	21	52						
250	" 19	Bat.	I _r	P	14	11	17				2050?	Minahasa.
					S?	14	14					
				F	14	26					2520?	
					P	14	11					
		Mal.		S?	14	14	59					
					F	14	18					
		Amb.		iP	14	15.5					550	
					iS	14	15.5					
251	" 20	Bat.	I _v	eP	10	56	50				720	Sumatra's West Coast.
					S	10	57					
				F	11	11						
					P	10	56					
		Mal.		F	11	5						
252	" 22	Bat.	I	e	0	11						
					F	0	24					
—	" 22	Amb.		iP	2	41.9					550	
					iS	2	42.6					
—	" 23	Mal.		P	6	8	10				100	
					iS	6	8					
255	" 14	Bat.	I	P	6	9	14					
					F	6	19					
—	" 24	Amb.		P	5	57.9					560	
					S	5	58.9					
—	" 24	Amb.		P	11	26.4					650?	
					i ₁	11	26.4					
				i ₂	11	27.4						
					i ₃	11	27.5					
				S?	11	27.5						
—	" 25	Amb.		iP	9	5.8					4120	
					iS	9	9.6					
—	" 25	Amb.		iP	14	4.8						
					iS	14	4.9					
—	" 26	Mal.		P	4	37	5				80	
					S	4	37					

No.	Date 1925.	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Periode.	Amplitude (bali).		Distance of epi- centre	Remarks.	
					h	m	s		sec.	μ			μ
254	Nov. 28	Bat.	I	e	14	0	26					Benkoelen?	
				i _N	14	11	22						
				F	14	14							
255	» 28	Bat.	I _r	P	16	25	40	28					
				i _N	16	55	14						
				i _E	16	45	54						
				L	16	46							
				F	17	28							
		Amb.	i	16	21,5								
			L	16	56								
DECEMBER.													
256	Dec. 2	Bat.	I	e P	11	57	51						
				F	11	42							
—	» 2	Amb.		iP	12	25,7							
				iS	12	25,8							
—	» 5	Amb.		i	14	45,7							
—	» 4	Amb.		iP	4	25,4				220		Azimuth SSW.	
				iS	4	25,8							
—	» 5	Amb.		iP	7	20,4				220			
				iS	7	20,8							
				i	7	20,9							
257	» 5	Bat.	I	e	7	55,5							
				i	7	56	57						
				F	7	42							
—	» 6	Amb.		iP	0	56,5				580			
				S _E ?	0	57,0							
258	» 6	Bat.	I	P	1	1	4						
				F	1	9							
		Mal.	P	1	0	58			90				
			S	1	1	9							
				F	1	2							
259	» 7	Bat.	I _r	e	8	47,4							
				L	9	3	56						
				F	9	20							
260	» 8	Bat.	II _r	eP	0	57	18				910?		
				S?	0	58	55						
		Mal.	F	1	7								
			P?	0	57	52							
			i	0	58	11							
				F	1	0							
261	» 9	Bat.	I	e	1	59							
				P	1	59	15						
		Mal.	F	2	0							Phases lost by street traf- fic.	
262	» 9	Bat.	I _r	eP	2	40	27				2150		
				S _N	2	45	58						
				F	2	55							
		Mal.	P	2	58	50							
			F	2	41								
		Amb.	iP	2	54,2								
			iS	2	54,8							520	Azimuth W N W.



N ^o .	Date 1925.	Sta- tion.	Char- acter.	Phase.	Time (Greenwich).			Period.	Amplitude (half)		Distance of epi- centrre.	Remarks.
					h	m	s		sec.	μ		
—	Dec. 9	Amb.		P	18	51.7						
263	» 10	Bat.	I _v	P	14	33	24	26			90	Tjitjoeroeg (W. Preanger, Java).
				iS	14	33	35					
				F	14	37						
		Mal.	eP	14	33	33						
			S	14	33	49						
		F	14	35								
264	» 10	Bat.	I	eL	15	8						
				L	15	51	36					
				F	16	32						
265	» 18	Bat.	I _v	eP	8	42	12	26			220	In minute mark. Azimuth of iS: N W.
				iS	8	42	37					
				F	8	46						
		Mal.	iP	8	42	8						
			iS	8	42	21						
		F	8	45								
266	» 19	Bat.	I _v	P	3	24	29	26			4950	
				S	3	31	5					
				F	3	50						
		Mal.	P	3	24	5						
			S	3	30	57						
			i	3	33	50						
		Amb.	F	3	36							
			iP	3	11.5							
			iS	3	15.9							
—	» 19	Mal.		iP	6	40	11	26			110	
				iS	6	40	24					
				F	6	41						
267	» 19	Bat.	I _a	P _N	16	29	22	32				
				i	16	32	2					
				L _N	17	10	15					
				M _N	17	12						
				F	17	59						
		Mal.	i	16	29	37						
			L	17	10	55						
			F	17	25							
268	» 20	Bat.	I _v	P	21	52	14	26			100	Azimuth about N S.
				iS	21	52	36					
				F	21	56						
		Mal.	iP	21	52	3						
			iS	21	52	17						
		F	21	55								
269	» 20	Bat.	I	i	22	24	44	26				MARON: i — eP = 15°.
				F	22	30						
		Mal.	i	22	25	52						
		F	22	28								
270	» 21	Bat.	I _v	iP	3	55	58	26			260	Vlakke Hoek (Benkoelen).
				iS	3	56	28					
				F	4	5						
		Mal.	P	3	56	6						
			iS	3	56	47						
		F	4	1								

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period.	Amplitude (half).		Distance of epicentre	Remarks.															
					h	m	s		μ	μ																	
271	Dec. 22	Bat.	III _r	iP	5	11	20	sec.	μ	μ	km.	Azimuth SSE. Azimuth NE. In minute eclipse. In minute eclipse. MARON: i — P = 8 ^m 19 ^s .															
				S	5	16	0																				
		Mal.	i _N	5	16	21																					
			i	5	20	42																					
			i _N	5	25	21																					
			F	6	22																						
			P	5	11	32																					
			S	5	16	48																					
			i	5	20	56																					
			i _N	5	21	25																					
272	" 25	Bat.	I _v	P	9	20	56	sec.	μ	μ	km.	Azimuth about EW.															
				S	9	21	0																				
		Mal.	F	9	50																						
			P	9	20	52																					
			F	9	25																						
			273	" 24	Bat.	I	e						9	20.0	sec.	μ	μ	km.									
							P						9	50													
					274	" 26	Bat.						I _r	P						18	29	2	sec.	μ	μ	km.	
														i ₁						18	51	21					
							Mal.						i ₂	18						55	55						
i ₃	18	55						5																			
L	18	46.5																									
F	18	38																									
P	18	29						5																			
S?	18	55						52																			
F	18	50																									
i	18	25.0																									
275	" 27	Bat.	H _r	P	10	55	0	sec.	μ	μ	km.	Minahasa.															
				S?	10	57	4																				
		Mal.	i _N	10	57	55																					
			i _E	10	58	40																					
			L	10	41																						
			F	11	14																						
			eP	10	55	1																					
			L	10	41																						
			F	11	0																						
			iP	10	51.6																						
276	" 28	Bat.	I	S	10	52.8	sec.	μ	μ	km.	Azimuth SSE.																
				iP	11	6.4																					
		Amb.	S	11	7.5																						
			iP	4	15.5																						
			S	4	15.7																						
			277	" 29	Bat.	I						P	19	8	10	sec.	μ	μ	km.								
												i _N	19	12	45												
					Amb.	F						19	25														
						iP						11	9	55													
						i _E						11	10	8													
i _E	11	11				18																					
i _E	11	11				59																					
i _E	11	12				59																					
F	12	25																									

No.	Date 1925.	Station.	Character.	Phase.	Time (Greenwich).			Period	Amplitude (half).		Distance of epicentre.	Remarks.														
					h	m	s		μ	μ																
278	Dec. 29	Bat.	III _r	P	16	7	58	sec.	μ	μ	km.	MARON: iS — iP = 5 ^m 42 ^s Δ = 2290. Central and N. Celebes.														
				S	11	9	12																			
		Mal.	F	11	15																					
			i ₁	16	11	28																				
			i ₂	16	12	21																				
			i _N	16	13	59																				
			i _E	16	14	11																				
			L?	16	16	12																				
			F	16	57																					
			P	16	7	56																				
279	" 29	Bat.	I	iP	19	45	26	sec.	μ	μ	km.	Identical with No. 277.														
				i	19	44	25																			
		Mal.	i _E	19	44	59																				
			i _E	19	45	49																				
			i _E	19	46	55																				
			i _E	19	47	51																				
			F	19	53																					
			P	19	45	9																				
			F	19	46																					
			280	" 30	Bat.	I	e						7	18	sec.	μ	μ	km.								
F	7	50																								
281	" 31	Bat.			I _v	P	9	55	34	sec.	μ	μ	km.	250												
						iS	9	56	0																	
		Mal.			F	10	4																			
					P	9	5	45																		
					S	9	56	22																		
					F	9	59																			
					282	" 31	Bat.	I	e											15	52.2	sec.	μ	μ	km.	
									i											13	56					
			Amb.	F			14	1																		