

Meteorological and Geophysical Service
 Department of communications, Power and Mining.

Seismological Bulletin Batavia 1949.-

January - March.

Introduction.

The bulletins published last have been those containing the data for January - March 1948 and April - June 1948. During the second half year of 1948 a couple of circumstances intervened several times with the precision of the time record. Therefore it was decided not to publish bulletins for these two quarters.

Information.

Foundation : River Quarternary.
 S. Latitude $6^{\circ} 11' 0''$, E. Longitude $106^{\circ} 50' = 7h7m 20.3s$.
 Height above sea level 8m.
 Wiechert Horizontal Pendulum 1000 kg, NS and EW Components.
 Wiechert Vertical Pendulum 1300 kg.
 Bosch-Omeri seismograph 25 kg, NS and EW components
 Greenwich Mean Time.

C O N S T A N T S W I E C H E R T S E I S M O G R A P H S

NS-Component

EW-Component

Z-Component

	T	r	E	V	e_0	T	r	E	V	e_0	T	r	E	V	e_0
Jan	8.3	0.14	3.4	216	1.14	8.3	0.14	3.2	218	1.13	4.3	0.13	2.7	300	1.23
Feb	8.2	0.19	3.4	207	1.08	8.2	0.14	3.3	215	1.12	4.1	0.14	2.7	300	1.21
Mar	8.4	0.21	3.3	207	1.10	8.3	0.23	3.2	220	1.09	4.0	0.22	2.5	300	1.10

Batavia-, August 1949.-

H. P. Berlage

(Dr. H. P. Berlage).-
 Director.

No	Date	Phase	G. M. T.	Distance	Remarks
	January		h m s	degrees	
1	2	1PNE 1PZ 1SN 1SE 1SZ	04 47 24 04 47 22 04 49 44 04 49 45 04 49 47	12.6	deep focus
2	2	1PNEZ 1SNEZ	08 57 44 09 04 08	43.0	compression
3	2	ePNE	12 59 23	66.3	Z-Component no traces
4	6	1SNE ePNE ePZ eSNEZ	13 08 32 06 03 14 06 03 13 06 04 35	7.2	
5		1PN	13 13 51	7.4	Felt at Banjumas (Java)
6	7	ePE 1PZ eSNEZ ePNE	13 13 51 13 13 51 13 15 15 17 30 06	57.4	Z-Component no traces. clack stopped.
7	9	1SNE ePNEZ eSNEZ	17 38 02 13 44 01 13 45 05	5.6	
8	9	ePNE 1PZ 1SNEZ	21 49 25 21 49 25 21 50 42	6.8	
9	10	ePNE	18 16 52	26.1	Z-Component lost in micros
10	11	1SNE ePNEZ eSN	18 21 22 08 48 30 08 50 16	9.6	
11	12	1SEZ ePNE 1SNE	08 50 16 03 39 36 03 40 03	2.4	Z-Component lost in micros. Felt at Cheribon (Java).
12	13	ePNE ePZ eSNEZ	08 57 47 08 57 46 09 06 12	62.2	
13	19	ePN	12 51 41	22.0	Z-Component lost in micros.
14		1PE 1SN eSE PNE SNE	12 51 41 12 55 36 12 55 36 14 15 05 14 19 22	24.5	No Z-Component.
15		ePN ePE	15 06 43 15 06 51		
16	23	PN PE PZ 1SNEZ	06 34 20 06 34 20 06 34 19 06 36 44	13.0	
17	24	LZ ePNE 1PZ 1SNEZ	06 39 5 09 27 22 09 27 22 09 36 57	74.0	Small surface Waves. Deeper than normal.
18	26	ePNEZ eSNEZ	12 09 57 12 12 24	13.2	Aftershock.
19	27	1PN ePE 1SNEZ	07 25 39 07 25 39 07 31 35	38.8	Z-Component very faint lost in micros.

No	Date	Phase	G. M. T.	Distance	Remarks
			h m s	degrees	
<u>January</u>					
20		iPN	15 06 59	45.9	Z-component lost in micros
		ePE	15 06 59		
		eSNE	15 13 41		
		SZ	15 13 41		
21	30	eN	16 58 56	13.3	Aftershock
		eE	16 58 54		
		iPZ	16 58 51		
		eSNEZ	17 01 24		
<u>February</u>					
22	1	ePN	18 21 51	29.7	
		iPEZ	18 21 51		
		iSNE	18 26 47		
		eSZ	18 26 47		
23	4	iPN	08 40 28	9.6	
		ePEZ	08 40 28		
		iSNE	08 42 16		
		eSZ	08 42 16		
24	5	iPNEZ	10 30 34	5.0	
		iSNEZ	10 31 31		
25	9	iNE	17 50 20		
26	13	iPNE	18 35 56	71.6	
		iPZ	18 35 54		
		eSNEZ	18 45 14		
		LNE	19 04 -		
27	14	iPN	18 47 06	25.9	Felt at Manilla
		ePEZ	18 47 06		
		iSNE	18 51 34		
		eSZ	18 51 34		
28		ePNEZ	19 59 14	10.7	
		eSNEZ	20 01 14		
29	16	ePNE	11 46 28	54.2	Z-component lost in micros.
		SNE	11 54 04		
30	19	iPNE	01 05 14	55.5	Z-component lost in strong micros.
		SNE	01 12 58		
31	20	ePNE	15 51 08	2.0	probably deep focus
		iPZ	15 51 07		
		iSNEZ	15 51 29		
32	23	ePNE	16 17 00	52.2	
		iSN	16 24 23		
		eSEZ	16 24 23		
		LNEZ	16 37 00		
33	26	iPNEZ	17 01 30	21.8	Dilatation from N E.
		iSN	17 05 23		Felt at Menado.
		eSE	17 05 23		
<u>March</u>					
34	3	ePNEZ	04 46 46	25.1	Felt at Batjan (Moluccas).
		iSNE	04 51 09		
		eSZ	04 51 09		
35	4	iPNEZ	01 18 19	4.8	Compression from NW.
		iSNEZ	01 19 14		
36		iPNEZ	10 28 30	51.0	SN and SE no record, clock stop- ped.
		iSZ	10 35 46		Deeper than normal. Compression. Azimuth N 38°W.
		LZ	10 53		

No	Date	Phase	G. M. T.			Distance	Remarks
			h	m	s		
	<u>March</u>					degrees.	
37	7	ePNE	07	17	51	5.4	
		ePZ	07	17	50		
		eSNEZ	07	18	51		
38	9	ePNE	02	45	25	5.0	
		1PZ	02	45	25		
		1SNEZ	02	46	22		
39	11	ePNEZ	18	29	42	28.9	Z-component no traces.
		1SNE	18	34	32		
40		1N(S?)	22	46	58		1 Z not clear.
		1E(S?)	22	46	44		
41	13	ePNE	09	07	08		Probably deep focus.
		ePZ	09	07	06		
		eSNEZ	09	07	24		
42		ePN	10	15	27		Compression from E. Aftershock.
		1PE	10	15	27		
		1PZ	10	15	26		
		1SNEZ	10	15	47		
43		1PNE	12	36	56	9.3	Felt in East-Java Bali and Lombok.
		1PZ	12	36	54		
		SNEZ	12	38	39		
44	16	1PNE	22	23	15	44.9	
		ePZ	22	23	15		
		eSNEZ	22	29	51		
		LNEZ	22	33	15		
45	17	ePNE	21	13	58	44.5	Aftershock.
		eSNEZ	21	20	32		
		LNE	21	28	00		
46	19	1PNE	18	27	16	42.3	
		PZ	18	27	16		
		1SNE	18	33	35		
		eSZ	18	33	35		
47	22	ePNE	02	00	39	12.3	
		1SNE	02	03	02		
		eSZ	02	03	02		
48	23	ePN	06	43	40	37.0	
		1PEZ	06	43	40		
		1SNE	06	49	25		
		eSZ	06	49	25		
49	23	ePNE	10	59	52		Probably deep focus.
		1PZ	10	59	51		
		1SNEZ	11	00	03		
50	27	ePN	06	39	08	22.7	Felt in Morotai.
		1PE	06	39	08		
		1PZ	06	39	06		
		1SNEZ	06	43	07		
		LNEZ	06	46	20		
51	28	1PZ	00	27	17	7.5	No N and E component. Clock stopped.
		1SZ	00	28	43		
52		1PNE	12	55	46	22.5	
		1PZ	12	55	45		
		1SNEZ	12	59	45		
53	29	LNEZ	03	03			
54	30	1PN	14	59	24	77.0	
		ePE	14	59	24		
		1PZ	14	59	24		
		1SNE	15	09	15		
		eSZ	15	09	15		



Meteorological and Geophysical Service
 Department of Communications, Power and Mining..

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Seismological Bulletin Batavia 1949.
 April - June

Information:

Foundation; River Quaternary

S. Latitude: $6^{\circ}11'10''$: E-Longitude: $106^{\circ}50' = 7^{\text{h}}7^{\text{m}}20.3^{\text{s}}$.

Height above sea level: 8m, Wiechert Horizontal Pendulum: 1000KG.

NS and EW components, Wiechert Vertical Pendulum 1300KG.

Bosch-Omori. Seismograph 25 KG, NS-and EW-components.

Greenwich Mean Time.

C O N S T A N T W I E C H E R T S E I S M O G R A P H S

NS-component

EW-component

Z-component

	T	r	E	V	e _o	T	r	E	V	e _o	T	r	E	V	e _o
April	8.4	0.18	3.35	209	1.12	8.1	0.21	3.31	225	1.15	4.1	0.18	2.58	300	1.20
May	8.6	0.17	3.69	206	1.12	8.2	0.31	3.34	224	1.18	4.0	0.11	2.66	300	1.18
June	8.9	0.16	4.12	194	1.14	8.2	0.29	3.09	219	1.16	4.0	0.21	2.61	300	1.15

Batavia-, October 1949.,

H. P. Berlage
 (Dr. H. P. Berlage).-

No.	D A T E	PHASE	G. M. T.	Distance	Remarks
	April '49		h m s	Degrees	
55	1	1PZ ePNE 1SNE	08 52 07 08 52 08 08 55 16	17.1	Probably deep focus SZ lost in micros
56	2	ePNEZ eSNEZ	01 20 56 01 23 08	11.7	PZ lost in micros SZ lost in micros
57		ePNE eSNZ 1SE	07 06 16 07 09 48 07 09 48	19.4	PZ lost in micros
58	3	ePNEZ eSNE	06 40 27 06 43 39	17.4	SZ no traces
59		ePNE eSNE	11 01 22 11 01 47	2.3	Z component unrea- dable. Felt in Garut(Java)
60	5	ePNE 1PZ 1SNE eSZ	09 35 28 09 35 28 09 42 14 09 42 14	46.4	Deep focus
61	6	1PNEZ 1SNEZ	10 19 24 10 20 00	3.1	
62		ePZ ePNE 1SNEZ	15 25 31 15 25 32 15 27 15	9.2	
63	7	1PZ 1PN ePE 1SNZ eSE	07 21 51 07 21 52 07 21 52 07 23 23 07 23 23	7.7	
64	8	ePNE 1SNE eSZ	01 10 39 01 13 29 01 13 29	15.3	PZ lost in micros
65		ePNEZ eSNEZ	04 21 39 04 22 22	3.8	
66	10	ePNE eSNEZ	08 31 28 08 32 28	5.3	PZ lost in micros
67	11	1PNEZ eSN 1SE	00 00 09 00 09 55 00 09 55	74.9	SZ lost in micros
68	15	ePN 1PEZ 1SNEZ 1NEZ	14 11 20 14 11 20 14 14 10 14 17 3	15.3	Dilatation from E Felt at Buton (Celebes)

No.	D A T E	PHASE	G. M. T.	Distance	Remarks
	April '49		h m s	Degrees	
69	17	ePNEZ ISNE	02 56 43 03 00 01	17.9	
70	19	IPZ eSZ	15 30 15 15 39 12	67.7	Compression.No N and E Components clock stopped.
71	20	IPZ oPNE ISNE eSZ	03 48 24 03 48 25 03 51 56 03 51 56	19.4	Compression
72		LNEZ	04 37 0		
73		IPNEZ ISNE eSZ	23 45 59 23 49 05 23 49 05	16.8	Dilatation from NE
74	23	IPZ oPN IPE ISNEZ LNEZ	11 18 51 11 18 52 11 18 52 11 21 37 11 25 5	15.0	Dilatation from E
75	24	IPNEZ eSN ISBZ	04 32 08 04 40 16 04 40 16	59.4	Compression from NE
76	25	oPNE IPZ ISNE eSZ LNE	14 15 05 14 15 05 14 25 08 14 25 08 14 38 4	79.2	
77	26	oPN IPE eSNE	10 21 17 10 21 17 10 29 10	57.0	Z-Component lost in micros
78	28	IPZ IPNE ISNEZ	01 31 29 01 31 28 01 32 32	5.6	Compression from NW.
79	30	IPZ IPNE ISZ	01 28 22 01 28 24 01 32 24	22.8	Compression from NE.
	May				
80	2	IPZ ISNEZ	05 36 51 05 37 53		Compression, deep focus
81	3	IPZ LINE ISNE eSZ	06 07 31 06 07 32 06 16 20 06 16 20	66.7	Dilatation from NE
82	5	oPNE IPZ ISNE eSZ	14 32 36 14 32 36 14 33 05 14 33 05	2.6	Compression

No.	D A T E	PHASE	G. M. T.	DISTANCE	REMARKS
	May '49		h m s	Degrees	
83	6	iPZ iPN eSNZ	20 58 32 20 58 34 20 59 12	3.7	E-component thrown off dilatation
84	8	ePNZ eSNE iSZ	02 32 17 02 33 26 02 33 26	6.1	PE lost in micros
85	9	ePEZ eSE SZ	13 39 57 13 42 53 13 42 53	15.8	N-component in disorder
86	9	iPNE ePZ iSNEZ	23 44 38 23 44 38 23 45 43	5.8	
87	10	ePEZ iSEZ	06 34 57 06 35 57	5.3	N-component in disorder
88	12	iPZ ePNE iSN eSEZ	10 23 43 10 23 43 10 26 15 10 26 15	13.6	Compression
89	16	iPZ ePNE eSN iSEZ iNEZ	04 35 37 04 35 37 04 38 14 04 38 14 04 43 0	14.1	Dilatation
90	17	ePNEZ eSNZ iSE	19 52 06 19 52 59 19 52 59	4.6	
91	19	ePZ ePNE eSNE iSZ	05 08 49 05 08 50 05 10 31 05 10 31	14.6	
92	20	iPZ ePNE iSNE	01 45 07 01 45 07 01 45 20		Compression. SZ-lost in micros. Deep focus. Probably 150 Km.
93	21	iPZ iPNE iSNE eSZ	21 49 33 21 49 34 21 57 17 21 57 17	55.5	Dilatation from NNE
94	21	ePNEZ iSNEZ	23 48 21 23 49 13	4.5	
95	24	iPZ ePZ iPE iSNE eSZ	00 01 14 00 01 15 00 01 15 00 01 53 00 01 53	3.4	Dilatation from E

No.	D A T E	PHASE	G. M. T.	Distance	REMARKS
	May '49		h m s	Degrees	
96	25	1PZ ePNE eSNEZ	08 32 58 08 32 58 08 40 21	52.2	Compression
97	26	ePNEZ 1SNEZ	04 56 10 04 57 50	8.8	
98	27	ePNE 1PZ 1SNEZ	04 24 59 04 24 59 04 26 43	9.2	Compression
99	29	1PNEZ 1SNEZ	22 53 03 22 53 31	2.3	Dilatation. Felt at Buitenzorg.
100		1PNEZ 1SNEZ	23 30 41 23 03 09	2.3	Aftershock.
101	30	ePNEZ eSNEZ	01 52 31 01 57 01	26.1	
D2	31	1PZ ePNE 1SNE eSZ	02 31 33 02 31 34 02 36 37 02 36 37	30.8	Dilatation
	June				
103	16	1PZ ePNE 1SN eSEZ	02 32 22 02 32 22 02 33 06 02 33 06	3.8	Dilatation
104	23	1PZ ePNE eSNE 1SZ	22 37 01 22 37 01 22 45 04 22 45 04	58.5	Dilatation
105	24	1PZ 1PNE 1SNE	22 39 12 22 39 14 22 39 41	2.5	Light compression followed by strong dilatation from WSW
106	26	1PZ 1PNE 1SNEZ	08 45 57 08 45 58 08 49 38	20.4	Compression from ENE. Felt at Menado



Meteorological and Geophysical Service
 Department of Communications, Power and Mining.

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Seismological Bulletin Batavia 1949.

July - September

Information:

Foundation: River Quaternary

S.Latitude: $6^{\circ}11'10''$: E. Longitude $106^{\circ}50' = 7^{\text{h}}7^{\text{m}}20^{\text{s}}.3$.

Height above sea level: Sm. Wiechert Horizontal Pendulum: 1000 KG.

NS and EW component. Wiechert Vertical component 1300 KG.

Bosch-Omori. Seismograph 25 KG. NS- and EW-components.

Greenwich Mean Time.

CONSTANT WIECHERT SEISMOGRAPHS

1949	N.S.-component					E.W.-component					Z.-component				
	T	r	E	V	°o	T	r	E	V	°o	T	r	E	V	°o
July	8.7	0.19	3.64	198	1.18	8.1	0.17	3.20	229	1.16	4.1	0.22	2.45	300	1.13
Aug.	8.5	0.21	3.31	199	1.16	8.0	0.20	2.87	227	1.15	4.1	0.19	2.12	300	1.17
Sept.	8.2	0.27	3.27	206	1.13	8.0	0.16	2.88	228	1.14	4.0	0.20	2.06	300	1.16

Batavia-C., February 1950.

H.P. Berlage
 (Dr. H.P. Berlage)..-

Ko/J.

No.	Date	Phase	G. M. T.			Distance	Remarks
			h	m	s		
	July 1949					Degrees	
107	2	1PNE 1SNE	11	38	20 52	64.1	Z-traces unreadable
108		1PNEZ 1SNEZ	20	05	38 23	46.3	Compression from NE
109	3	1PMZ ePE 1SNEZ	00	04	08 08 40	8.1	Compression from S.
110	4	1PNE oz eNE	05	03	17 49 09		
111	6	1PZ ePN 1PE 1SNEZ	01	12	26 27 27 42	12.1	Dilatation from E
112	10	1PZ 1PNE eSN 1SEZ 1NEZ	04	03	22 24 18 18 0	57.5	Compression from NW
113		1PN ePE 1SNE	15	59	34 34 02	62.7	Z-traces unreadable
114		1PNE 1SNE	16	34	26 58	63.4	Z-traces unreadable Aftershock
115	11	1PZ ePNE 1SNE	16	19	26 27 18	47.3	Dilatation
116		1PZ ePN 1PE eSNEZ	16	32	53 55 55 50	22.2	Compression from ENE Felt at Ternate
117	13	ePNEZ 1SNE	07	30	00 38	3.3	
118	14	ePEZ 1SNE	20	38	31 14	14.7	PN lost in micros
119	18	1PEZ 1SNE	00	36	54 16	18.3	Compression PN lost in micros
120		1PNEZ 1SNE	04	46	58 02	23.0	Compression from NE
121		NE Z	08	45	46 22		
122		ePNE 1PZ 1SNE	20	01	16 16 35	6.9	Dilatation

No.	Date	Phase	G. M. T.	Distance	Remarks
123	July 1949 19	ePN iPEZ iSNE	h m s 15 03 56 15 03 56 15 06 18	Degrees 12.7	Dilatation from E
124	20	iPNEZ iSNE	22 21 48 22 23 00	6.3	Compression from E Felt in East-Java.
125	23	iPZ iPNE iSN eSEZ	10 36 50 10 36 52 10 44 59 10 44 59	59.6	Dilatation from ESE
126		PNEZ iSNE	15 16 14 15 26 48	84.8	Compression from NW. Felt at Smyrna
127	27	ePN iPE iS?NE	11 06 01 11 06 01 11 09 36		Z-component in disorder
128		ePNE iSNE	15 23 19 15 32 59	75.0	Z-component in disorder
129	Aug: 6	iPZ iPNE iSNE	00 47 27 00 47 27 00 57 30	79.2	Dilatation from ESE
130	13	iPZ ePNE iSNE iNEZ	18 32 26 18 32 27 18 38 31 18 45,0	40.1	Compression
131	15	ePZ ePE iSNE	21 09 20 21 09 21 21 11 15	10.3	PN no traces
132	16	ePNEZ iSNE	02 33 47 02 35 55	11.4	
133	17	ePNE iPZ iSNE	18 44 10 18 44 10 18 52 19	59.6	Dilatation
134		ePNEZ eSNE	18 56 00 19 05 50	76.9	
135	22	iPNEZ iSNEZ iNEZ	04 20 02 04 25 51 04 36,0	37.7	Compression from ESE
136	25	iPNEZ iSNE	23 30 44 23 35 00	24.4	Compression from NE

No.	Date	Phase	G. M. T.	Distance	Remarks
	Sept. 1949		h m s	Degrees	
137	5	iPZ iPN ePE iSNEZ	03 02 53 03 02 54 03 02 54 05 03 18	2.3	Compression from S. Felt at Buitenzorg
138	9	ePNEZ eSNEZ	09 15 20 09 16 00	3.5	
139	12	ePNEZ iSNE	09 27 32 09 36 04	63.4	
140	13	iPZ ePNE iSNEZ	06 55 30 06 55 31 06 59 42	23.9	Dilatation
141		ePN iPE iSNE	12 00 00 12 00 00 12 03 48	21.2	Z-component unreadable
142		ePN iPE iSNE	13 44 45 13 44 45 13 48 39	21.9	Z-component unreadable
143	14	iPNEZ iSNEZ	05 45 29 05 45 48	1.7	Compression
144		iPZ ePN iPE eSNEZ	16 43 30 16 43 31 16 43 31 16 47 41	23.6	Compression from E
145		ePN iPEZ iSNE	19 54 55 19 54 55 19 58 41	21.0	Dilatation from E, felt at Ternate
146	16	iPZ ePN iPE iSNE	19 15 59 19 16 00 19 16 00 19 19 05	16.8	Compression from E
147	17	ePNEZ iSNE	10 31 30 10 33 09	8.7	
148	19	ePNEZ eSNEZ	07 55 57 07 59 34	20.0	Felt at Manado
149	20	ePNE iPS iSNE eSZ	12 06 57 12 06 57 12 16 31 12 16 31	74.0	
150	24	ePNEZ eSNEZ	04 26 12 04 33 07	47.7	
151		iPNEZ iSNE eSZ	07 24 25 07 25 32 07 25 32	5.9	Compression from NW. Felt at Palnan (Sum.)

No.	Date	Phase	G. M. T.	Distance	Remarks
	Sept. 1949		h m s	Degrees	
152		iPZ	15 58 52	1.8	Compression from N.W.
		iPNE	15 58 53		
		iSNE	15 59 12		
		eSZ	15 59 12		
153	25	ePNE	15 23 35	47.4	
		iSNE	15 30 28		
154	27	iPZ	11 58 16	22.9	Dilatation
		ePNE	11 58 16		
		eSNZ	12 02 01		
		iSE	12 02 01		
155		NE	15 49 27		Z-component unreadable
156	30	ePNEZ	04 10 29	70.9	
		eSNE	04 19 44		

Department of Communications, Power and Mining
Meteorological and Geophysical Service.



Seismological Bulletin Batavia 1949
October - December.-

Introduction : A seismological station equipped with a Wiechert Horizontal Pendulum of 1000 kg was established at Bandung in July 1949. The data taken from this station are published in the present quarterly bulletin for the first time.-

Information : Batavia.-

Foundation : River Quaternary

S. Latitude : $6^{\circ}11'$; E. Longitude $7^{\text{h}}7^{\text{m}}20,3^{\text{s}}; 106^{\circ}50'$
Height above sealevel: 8 m. Wiechert Horizontal Pendulum 1000 kg NS and EW components
Wiechert Vertical Pendulum 1300 kg.
Bosch-Onori seismograph 25 kg NS and EW components
Greenwich Mean Time.-

Bandung

Foundation : Volcanic

S. Latitude $6^{\circ}54'$; E. Longitude $107^{\circ}37'$
Height above sealevel; 726 m. Wiechert Horizontal Pendulum 1000 kg, NS and EW components
Greenwich Mean Time.-

Constants Wiechert Seismographs

Bat	NS - Component					EW - Component					Z - Component					
	T	r	E	V	σ_0	T	r	E	V	σ_0	T	r	E	V	σ_0	
1949																
Oct	8.4	0.29	3.24	198	1.14	8.0	0.16	2.86	228	1.14	4.1	0.19	2.05	300	1.16	
Nov	8.4	0.29	3.32	204	1.13	7.9	0.15	2.82	225	1.14	4.0	0.17	2.04	300	1.16	
Dec	8.4	0.27	3.10	198	1.13	7.7	0.15	2.69	223	1.14	4.1	0.18	2.05	300	1.13	
Band	NS - Component					EW - Component.-										
1949	T	r	E	V	σ_0	T	r	E	V	σ_0						
Oct	9.1	0.14	2.91	215	1.23	7.8	0.20	2.51	223	1.30						
Nov	7.9	0.13	2.95	216	1.20	6.8	0.20	2.51	223	1.28						
Dec	8.0	0.13	2.99	218	1.19	7.5	0.16	2.45	230	1.28						

Batavia., July 1950.-

(Dr. H. P. Berlage Jr).-
Director.-

No.	Date	Station	Phase	G M T	Distance	Remarks
	Oct. 1949			h m s	Degrees	
157	2	BAT.	1PZ	13 50 03	3.0	Compression from SW.
			1PNE	13 50 05		
			1SNEZ	13 50 37		
158	5	BAT.	eS?NEZ	11 14 46	1.4	
		BAND.	ePNE	11 14 19		
			1SNE	11 14 33		
159	7	BAT.	1PZ.	12 11 41	53.4	Dilatation
			1PNE	12 11 43		
			1SNE	12 19 12		
		BAND.	eSZ	12 19 12	54.3	
			ePNE	12 11 45		
			eSN	12 19 22		
			1SE	12 19 22		
160	8	BAT.	1PNEZ	20 40 45	31.7	Compression from NE.
			1SNE	20 45 55		
			eSZ	20 45 55		
		BAND.	ePNE	20 40 52	32.5	
			eSNE	20 46 07		
161	14	BAT.	ePNE	16 13 09	2.1	Dilatation
			1PZ	16 13 09		
			1SNE	16 13 32		
			eSZ	16 13 32		
		BAND.	1SNE	16 13 10	PN and PE lost in min: interruption	
162		BAT.	ePNEZ	21 17 33	2.2	
			1SN	21 17 57		
			eSE'Z	21 17 57		
		BAND.	ePNE	21 17 19	1.2	
			1SNE	21 17 33		

No.	Date	Station	Phase	G M T	Distance	R e m a r k s
	Oct. '49			h m s	Degrees	
163	17	BAT.	eE	19 27 00		PZ unreadable
			eN	19 27 16		
		BAND.	ePNE	19 25 14	16.5	
			iSNE	19 28 17		
164	18	BAT.	iPZ	00 13 58	6.8	Dilatation from NW
			iPNE	00 13 59		
			iSNE	00 15 16		
			eSZ	00 15 16		
		BAND.	ePNE	00 14 11	7.8	
			eSNE	00 15 39		
165	19	BAT.	ePN	21 08 49	47.9	Dilatation from E.
			iPEZ	21 08 49		
			eSNZ	21 15 45		
			iSE	21 15 45		
			LNEZ	21 23 00		
		BAND.	ePNE	21 08 39	46.8	
			eSNE	21 15 27		
166	20	BAT.	iPZ	12 53 24	46.2	
			PNE	12 53 25		
			eSNEZ	13 00 08		
		BAND.	PNE	12 53 14		SNE in minute eclipse
167	21	BAT.	ePNZ	06 15 22	31.3	PE lost in micros
			eSNE	06 20 30		SZ lost in micros
167	21	BAND.	ePNE	06 15 25	31.7	
			eSNE	06 20 35		
168		BAT.	ePNEZ	21 42 43	46.4	
			eSNEZ	21 49 29		
		BAND.	ePNE	21 42 33	45.3	
			iSNE	21 49 12		

NO	Date	Station	Phase	G M T		Distance	R e m a r k s
				h	m s		
	Oct. '49					Degrees	
169	22	BAT.	eNE	01	12 03		Z-Comp unreadable
		BAND.	eNE	01	11 43		
170	23	BAT.	eSNEZ	05	20 49		PN, PE and PZ lost in micros
		BAND.	ePN	05	19 41	5.5	
			iPE	05	19 41		
			eSNE	05	20 43		
171	26	BAT.	ePNE	09	21 38	46.6	Z-Comp. unreadable.
			eSNE	09	28 25		
		BAND.	ePNE	09	21 28	45.9	
			eSNE	09	28 10		
172	28	BAT.	ePNEZ	22	22 54		
			eS?NEZ	22	26 16		
		BAND.	ePNE	22	22 49	18.1	
			eSNE	22	26 09		
173	29	BAT.	eS?NE	13	25 37		Z-Comp. unreadable
		BAND.					No traces.
174	30	BAT.	ePNEZ	05	45 41	2.4	
			eSNZ	05	46 08		
			iSE	05	46 08		
174	30	BAND.	ePNE	05	45 31	1.5	
			eSNE	05	45 48		
175	31	BAT.	ePNEZ	18	04 02	46.3	
			iSN	18	10 47		
			eSEZ	18	10 47		
		BAND.	ePE	18	03 56	45.9	PN lost in micros
			eSN	18	10 38		
			iSE	18	10 38		

NO	Date	Station	Phase	G M T		Distance	R e m a r k s
				h	m s		
	Nov. '49					Degrees	
176	1	BAT	ePZ	07	41 11	46.9	PN and PE lost in micros
			eSNE	07	48 00		SZ lost in micros
		BAND.	ePNE	07	40 59	45.9	
			eSNE	07	47 41		
177		BAT.	ePNEZ	12	09 53	26.5	SZ. lost in micros.
			eSNE	12	14 26		
		BAND.	ePNE	12	09 50	25.9	
			eSNE	12	14 18		
178	2	BAT.	1PZ	02	38 25	27.6	
			ePNE	02	38 26		
			eSNEZ	02	43 07		
		BAND.	ePNE	02	38 22	27.0	
			eSNE	02	42 59		
179		BAT.	ePNEZ	08	34 58	4.0	
			eSNEZ	08	35 44		
		BAND.	ePNE	08	34 59		
			eSNE	08	35 46		
180	3	BAT.	ePNE	01	23 11	68.7	Deep focus
			1PZ	01	23 11		H = 200 km.
			1PZ	01	23 53		
			1SNE	01	31 59		
			eSZ	01	31 59		
		BAND.	PNE	01	23 24		
			eSNE	01	32 12		
181	5	BAT.	ePNE	13	05 12	17.1	Compression
			1PZ	13	05 12		SZ unreadable.
			1SNE	13	08 21		
		BAND	ePNE	13	05 08	16.7	
			eSNE	13	08 13		

No	Date	Station	Phase	G M T	Distance	R e m a r k s
				h m s	Degrees	
Nov. 149						
182	7	BAT	iPZ	06 09 43	59.6	Compression
			ePNE	06 09 44		
			eSNEZ	06 17 52		
		BAND.	ePNE	06 09 37	58.5	
			iSNE	06 17 40		
183	11	BAT.	ePNEZ	15 50 46	31.6	SZ lost in micros
			eS?NE	15 55 56		
		BAND.	ePNE	15 50 58	32.4	
			iSNE	15 56 13		
184	13	BAT.	eNE	05 43 05		Z traces lost in micros
		BAND.	eNE	05 43 11		
185	16	BAT.	iPZ	07 57 43	1.7	Compression
			ePNE	07 57 44		
			iSNEZ	07 58 02		
185		BAND.	ePNE	07 57 40	1.4	
			iSNE	07 57 56		
186	17	BAT.	E	19 40 36		
			N	19 42 57		
		BAND.	PNE	19 36 22		
			NE	19 40 03		
187	20	BAT.	ePNE	02 06 39	1.7	Dilatations
			iPZ	02 06 39		
			iSNEZ	02 06 58		
		BAND.	ePNE	02 06 44	2.0	
			iSNE	02 07 06		

No	Date	Station	Phase	G M T		Distance	R e m a r k s
				h	m s		
	Nov. '49					Degrees	
188	22	BAT.	iPZ	01	03 11	69.9	Compression from ESE
			iPNE	01	03 12		
			iSNE	01	12 20		
			eSZ	01	12 20		
		BAND.	iPN	01	03 03	68.8	
			ePE	01	03 03		
			iSNE	01	12 06		
189	27	BAT.	iPNEZ	08	54 20	79.2	Compression from ESE
			eSNEZ	09	04 23		
		BAND.	iPNE	08	54 14	78.2	
			iSNE	09	04 12		
190	1 Dec. '49	BAT.	ePNEZ	00	51 56	2.3	Time correction not reliable
			iSN	00	52 22		
			eSZE	00	52 22		
		BAND.					Lost in changing papers
191	11	BAT.	iPNEZ	17	38 11	3.1	Dilatation from NW
			iSNEZ	17	38 46		
		BAND.	iPNE	17	38 25	4.1	
			iSNE	17	39 12		
			i				
192	15	BAT					NEZ No traces
		BAND	ePNE	03	33 13	0.8	
			eSNE	03	33 23		
193	17	BAT.	NEZ	07	13 54		
			eLE	07	43		
			eLZ	07	49		
			eLN	07	51		
		BAND.	eNE	07	13 37		
			eLE	07	42		
			eLN	07	48		

NO.	Date	Station	Phase	G M T		Distance	R e m a r k s
				h	m s		
	Dec. '49						
201	25	BAT.	iPZ	01	04 56	1.1	
			ePNE	01	04 57		
			eSNE	01	05 10		
			SZ	01	05 10		
		BAND.	iPN	01	05 00	1.3	
			PE	01	05 00		
			iSN	01	05 15		
			SE	01	05 15		
202	26	BAT.	iPZ	04	21 25	1.6	PN and PE faint by micros
			iSNEZ	04	21 43		
		BAND.	ePNE	04	21 22	1.3	
			iSNE	04	21 37		
203		BAT.	ePNEZ	06	35 17	71.7	
			eSNEZ	06	44 37		
		BAND.	ePNE	06	35 14	70.7	
			eSNE	06	44 28		
204	29	BAT.	iPZ	03	09 41	28.3	Compression from NE
			iPNE	03	09 42		
			iSNE	03	14 28		
			eSZ	03	14 28		
		BAND.	ePNE	03	09 53	29.3	
			eSNE	03	14 47		
205		BAT.	iPZ	22	08 12		Deep focus. H = 500 km
			iPNE	22	08 13		T ₀ = 22 06 39
			iSNEZ	22	09 27		
			S _c S	22	20 00		
		BAND.	ePNE	22	08 18		
			iSNE	22	09 31		
			S _c S	22	20 20		