

Seismological Bulletin 1938.

Royal Magnetical and Meteorological Observatory

Batavia, Java.
April - June 1938


Remarks. Reports of Soengei Langka have not been inserted in this Bulletin.

April.

No.	Date	Station	Character	Phase	G.M.C.T.	Distance	Remarks
163	Apr.1	Med	Ir	ePE eE	00 ^h 49 ^m 48 ^s 00 54 06	degrees	extremely faint.
164	" 1	Amb	IIv	PNE SNE	13 00 53 13 00 55		
165	" 1	Med	Ir	ePE SE	21 36 57 21 41 29	25.6	extremely faint.
		Bat	Ir	ePZN ePE SE eLE	21 37 15 21 37 20 21 42 20 21 50	29.8	faint.
165a	" 2	Bat	I	PZ PNE eLN	06 26 03 06 55		faint in micros. too faint.
166	" 2	Bat	Iu	iPZ S?E	07 40 31 07 48 43	58.7?	
167	" 2	Mal		i	15 39 35		
168	" 3	Bat	Ir	ePNE iN iSNE LN	10 59 02 11 00 42 11 05 24 11 11	41.4	in micros.
		Med	Iu	P S?N	 11 07 37		too faint.
169	" 4	Med	IIv	PNE iNE SNE	05 39 24 05 39 43 05 39 57	2.6	felt at Tjalang (N.Sumatra).
170	" 4	Amb	IIIv	iPNE iSNE S?S	21 10 08 21 11 00 21 23 10	3.5	deep focus, h = 400 km, epicentre 127° E, 7° S.

170	Apr. 4 (cont.)	Mal	r	iP	degrees				
					h	m	s		
				i	21	13	03	19.5	
				iS	21	16	48		
		Bat	IIr	iPZE	21	13	08	20.1	compression from ESE.
				PN	21	13	09		
				iE	21	14	52		
				iSZNE	21	16	32		
		Med	Ir	ePE	21	14	41	30.2	faint.
				iE	21	17	41		
				iN	21	18	02		
				iSNE	21	19	10		
171	" 10	Med	I	eE	05	22	49		
				eE	05	25	42		
172	" 13	Med	Iu	ePNE	02	57	49	75.5	faint.
				iSNE	03	07	34		
		Bat	Iu	iE	03	08	47		S?
173	" 13	Mal	d	iP	04	12	42	1.2	felt in Priangan (W,Java).
				iS	04	12	57		
		Bat	Iv	iPZ	04	12	48	1.6	dilatation.
				iSNE	04	13	08		
174	" 13	Amb	Iv	ePNE	04	19	26	0.5	
				SNE	04	19	.5		in minute eclipse.
175	" 13	Amb	Iv	ePE	10	57	25	3.8	felt at Hollat (Kei Island).
				iSE	10	58	12		
176	" 13	Bat	Iv	PZ	12	03	51		
				iE	12	04	30		
		Mal	v	i	12	04	12		
177	" 13	Amb	Iv	PE	18	13	29		
178	" 13	Amb	Iv	ePE	18	17	.6		faint in minute eclipse.
179	" 14	Med	IIIr	PNE	01	21	02	19.5	
				iSNE	01	24	41		
		Bat	Ir	PZNE	01	22	46	29.5	
				iE	01	24	50		
				iSZ	01	27	49		
				eLZ	01	37			
		Amb	Ir	iPE	01	24	18	29.3	
				iSE	01	30	29		
180	" 14	Mal	v					1.6	iS - P = 20 sec; no time-correction, felt at Tjimiring (C,Java).
181	" 14	Amb	Iv	PNE	12	54	57		
182	" 14	Amb	Iv	iPE	14	03	48		
183	" 14	Mal	v	i					no time-correction, felt in Priangan (W,Java).
184	" 14	Amb	IIId	iPNE	15	47	36		pens off; felt at Amboina.
		Bat	Ir	PE	15	52	41	20.6?	
				SN	15	56	30		dubious.

16.

					h	m	s	degrees	
185	Apr.15	Amb	Iv	ePNE iSNE	07	25	14	0.5	
186	" 16	Med	Iv	ePE	12	22	50		faint.
187	" 17	Amb Bat Med	Ir Ir Ir	PNE iPNE eE	09	01	34 49 02		
188	" 17	Med	Iv	ePE eSN	19	05	01 35	2.7	
189	" 18	Amb	Iv	ePE iSNE	00	40	21 48	2.1	
190	" 18	Amb	Iv	PNE iSNE	03	55.1		2.3	in minute eclipse.
191	" 19	Bat	Iv	PNE iSNE iNE	01	06	24 7 42	1.4	faint, felt in Cheribon (W. Java). in minute eclipse.
192	" 19	Mal	v	i	03	33	41		felt in Cheribon (W.Java).
193	" 19	Med Bat	Iu Iu	ePNE eSNE eLN LNE ePN LNE	11	10.4 19.4 32 36 11 41		67.0	in minute eclipse. in minute eclipse. faint in micros.
194	" 20	Amb Bat Med	Iu Iu Iu	PN ePE PE PN iSN eLN LE LN ePE SN eLNE LNE	06	35	51 52 05 07 58 00 02 03 17 06 05 08	65.6 76.3	faint.
195	" 20	Amb	IIIv	iPNE iSNE	11	14	05 27	1.7	felt on Ceram Island.
196	" 20	Mal	v	i	16	48	00		
197	" 21	Med	Iv	PE SNE iN	14	42	38 13 19	2.8	felt at Kampong Air (Simeuloeë Island).
198	" 23	Med	I	ePE	00	35	26		in change of papers.
199	" 23	Amb	Iv	ePN iNE	12	45	49 7		in minute eclipse.

17.

200	Apr. 23	Med	Iv	PE SNE	h m s			degrees	
					21 27 36	4.0			
201	" 23	Med	IIIv	IPNE	23 05 05	2.3	felt in Atjeh and on Simeu- loeë Island (N.Sumatra), Azimuth 292°		
				ISNE	23 05 34				
202	" 24	Bat	Iv	ePZ	15 25 38	3.4?	faint.		
				iS?E	15 26 21				
203	" 25	Mal	v		10 16		traces.		
204	" 26	Mal	v	P	11 49 49	1.0			
				S	11 50 02				
205	" 26	Amb Bat	IIv Ir	IPNE	12 54 40	19.7	strong. in minute eclipse.		
				IPZ	12 58 05				
		iPE	12 58 07						
		iE	12 59 13						
		iE	13 01 13						
		iE	13 01 36						
		S?N	13 01.7						
		S?E	13 01 48						
		Mal	r	P?	12 58 13				
				i	13 01 40				
		Med	Ir	PNE	12 59 46				
		206	" 29	Bat	Iv			PN	12 44 21
ePE	12 44 23								
207	" 30	Mal	v	i	00 17 52				

May.

208	May 1	Med	Ir	PE	01 40 47		
				iN	01 40 52		
				Bat	Ir		
209	" 1	Mal	v	eP	15 44 55	0.5	
				iS	15 45 01		
210	" 3	Bat	Iu	PZ	02 35 08		
				iN	02 36 01		
				eE	02 36 49		
				Med	Iu		
211	" 3	Bat	Iv	iPZE	06 07 48	1.6	
				iSNE	06 08 09		
				iZ	06 08 27		
212	" 3	Med	Iv	PNE	17 36		in hour sign; felt at Air Bangis (Sum.W. Coast).
213	" 4	Bat Med	Ir Ir	PZE	05 53 53	26.8	felt on Flores Island.
				ePE	05 55 52		
				SNE	06 00 33		

					h m s	degrees	
214	May 4	Amb	Iv	PE iSE	08 28 16 08 28 34	1.4	
215	" 6	Med	Ir	PE iS?E iN iE iE	03 45 54 03 49 47 03 53 25 03 53 30 03 54 45	21.0?	
		Bat	Ir	iE iN	03 57 15 03 57 17		
216	" 8	Med	Iv	ePE	13 48 12		
217	" 8	Bat	Ir	PZN iPN iN iSE SN eLE LZ LN	13 55 59 13 56 02 13 57.8 14 02 27 14 02 28 14 06 14 07 14 08	42.4	in minute eclipse.
		Amb	Iu	PNE SNE	13 57.1 14 04 25	50.3	in minute eclipse.
		Med	Iu	ePN iNE iSNE	13 57 12 13 57 21 14 04 37	51.4	faint in previous. strong.
218	" 8	Amb	IIv	PNE iSE iSN	14 42.1 14 43 27 14 43 30	6.4	in minute eclipse.
		Mal	r	iP iS	14 43 52 14 46.2	13.3	in minute eclipse. compression in previous.
		Bat	Ir	PZE iNE	14 43 55 14 46 18		in previous.
		Med	Ir	PNE iNE iN iE iN	14 45 28 14 49 21 14 49.7 14 50 15 14 55 00		in minute eclipse.
218a	" 8	Med	Ir	ePE S?E S?E S?N	15 45 18 15 47 55 15 48 32 15 48.7		in minute eclipse.
219	" 9	Med	IIv	PE SNE	15 49 36 15 50 16	3.2	in previous.
		Bat	Ir	eN	15 53 59		faint.
220	" 11	Bat Med	I I	eZ eE	15 04 43 15 05 02		faint.
221	" 11	Bat	I	eP?E	17 41 36		
222	" 12	Amb	IIIr	PNE iSNE eLNE LE	15 43 31 15 47 13 15 51 15 53	19.8	P phase very strong.
		Mal	r	iP iS L	15 46 40 15 52 49 15 59	39.0	

					h	m	s	degrees	
222	May 12 (cont.)	Bat	IIIr	PZ	15	46	41	41.0?	
				PNE	15	46	42		
				iZ	15	48	10		
				iZ	15	48	33		
				iNE	15	48	34		
				S?N	15	53	00		
				iNE	15	53	10		
				eLZ	15	56			
				LZNE	16	00			
		Med	IIIu	PNE	15	48	01	50.0	
				iN	15	48	24		
				iN	15	55	04		
				SNE	15	55	17		
				iN	15	55	25		
223	" 12	Amb	I	iE	17	03	47		in previous.
224	" 12	Amb	I	PE	20	01	03		traces.
225	" 12	Amb			21	30			traces.
		Bat	Ir	PZE	21	30	33		faint, felt in C. Celebes.
				iN	21	34	27		
				iZE	21	34	32		
		Med			21	32			traces.
226	" 13	Amb	Iv	PN	11	57	46	5.9	felt at Manado (N.Celebes).
				iE	11	58	58		
				SNE	11	59	02		
		Bat	Ir	PZ	12	01	02	21.6	faint in micros.
				eN	12	01	39		faint in micros.
				eSN	12	05	01		
227	" 13	Amb	Ir	PNE	15	08	52		
				S?N	15	12	02	16.3?	
				S?N	15	12	21		
		Bat	Ir	iPZ	15	12	27		compression.
				eE	15	12	33		in micros.
				eN	15	12	35		
		Med	Ir	PE	15	13	30		
				iE	15	17	33		
228	" 14	Bat	Iv	ePN	06	32	27	3.5?	faint.
				ePZ	06	32	30		
				iZ	06	33	00		
				iS?N	06	33	11		
229	" 14	Med	IIIr	PNE	12	07	46		
				SE	12	11	35		
				iN	12	12	43		
				iE	12	13	21		
				iE	12	13	33		
				iE	12	13	42		
		Bat	IIr	iPZ	12	09	24	28.7?	
				PNE	12	09	25		
				eS?E	12	14	20		
				eS?N	12	14	23		
				iN	12	18.8			in minute eclipse.
				iE	12	19	00		
				iN	12	20	18		

					h m s	degrees		
230	May 14	Med	Iv	ePN	17 59 17	4.2	felt in Sum. W. Coast.	
				iE	17 59 51			
				SNE	18 00 09			
		Bat	I	ePN	18 00 05		faint.	
231	" 15	Amb	I	ePNE	00 02 34	7.6		
				SN	00 04 11			
		Bat	Ir	iZ	00 05 44			
232	" 15	Med	I	PE	04 33 05			
				iE	04 33 39			
233	" 16	Bat	I	iN	01 26 05			
234	" 16	Amb	Iv	PNE	07 07 13	8.6		
				SE	07 09 02			
		Bat	Ir	PZ	07 10 48			
				eE	07 12 05			
						eN		07 12 32
						iE		07 16 48
						iN		07 16 54
		Med	Ir	PN	07 13 43	36.0		
				PE	07 13 47			
				iSNE	07 18 32			
235	" 16	Amb			15 33		traces; felt at Mesawa (W. Celebes).	
				Bat	Ir			ePZ
				ePE	15 36 34			
				iNE	15 40 56			
		Med			15 40		traces.	
236	" 17	Mal	v	P	12 26 18	1.4		
				iS	12 26 36			
237	" 18	Mal	v	i	17 45 21			
238	" 19	Bat	Iv	eP?N	07 13 02	4.0?		
				iSNE	07 13 52			
		Mal	v	iP	07 13 14			
				i	07 13 21			
239	" 19	Amb	IIIv	PNE	17 10 30		destructive; felt in Celebes and E. Borneo.	
				iE	17 10 50			
				S?NE	17 12 43			
				iNE	17 13 02			
				iE	17 13.3			
				iE	17 13 44			
		Mal	r	eP	17 11 59			
				i	17 12 18			
				i	17 12 22			
				i	17 12 55			
				iS?	17 15 05			
				i	17 16 35			
				i	17 19.6			
Bat	IIIr	PZNE	17 11 50		in minute eclipse. dilatation from ENE; pens thrown off.			
		iPE	17 12 06					
		iPZ	17 12 10					
		iPN	17 12 12					

				h m s degrees			
239	May 19 (cont.)			iS?NE	17 15 19		
				iNE	17 15 32		
				iZ	17 15 34		
		Med	IIIr	PNE	17 13 22		NE pen thrown off.
				iE	17 13 47		
				iS?NE	17 17 47		
240	" 19	Amb	IIv	iPNE	18 36 30	3.8	
				SE	18 37 17		
		Mal	r	eP	18 39 56	18.0	faint.
				S	18 43 22		
		Bat	Ir	iZ	18 40 36		in previous.
		Med	Ir	eE	18 42 16		faint in previous.
241	" 20	Amb	Iv	iPNE	07 42 19		sharp.
242	" 20	Bat	Ir	iPZ	10 46 24		felt in c.Celebes.
				ePNE	10 46 34		in micros.
				iS?NE	10 49 36		
				iS?N	10 51 00		
		Med	Ir	PE	10 47 17		extremely faint.
				S?NE	10 52 15		
243	" 20	Bat	Ir	ePZ	21 39 12		faint felt in C.Celebes.
				S?N	21 43 58		
244	" 20	Amb	Iv	PE	22 35.5	3.0	in minute eclipse; felt at Fak Fak (N.Guinee)
245	" 21	Mal	v	P	20 02 45		
				i	20 03 20		
		Bat	Iv	iNE	20 03 21		
246	" 22	Amb	Iv	iPNE	07 41 54		
247	" 22	Bat	Iu	ePZ	07 56 15	60.5	faint.
				eE	07 58 30		
				iSNE	08 04 37		
248	" 22	Bat	Iu	PZ	08 32 39	60.5	replica.
				SNE	08 40 54		
249	" 22	Amb	I	ePN	11 30 51		faint.
		Bat	Ir	iPZ	11 34 13	23.9	
				ePE	11 34 14		
				iSN	11 38 32		
250	" 23	Mal	v	i	00 29 17		
251	" 23	Amb	Ir	ePN	07 26 21	40.5	
				iNE	07 26 28		
				iE	07 26 37		
				iSNE	07 32 37		
				LN	07 41		
				LE	07 42		
		Med	Ir	ePNE	07 27 34	50.0	
				SE	07 34 50		
				SN	07 34.9		in minute eclipse.
				eLNE	07 42		
				LE	07 45		strong.

				ipZNE	07 27 49	52.3	compression from NE; in minute eclipse.
				eSZ	07 35 19		
				SNE	07 35 20		
				eLZ	07 41		
				LZ	07 44		
				eLN	07 45		
				LNE	07 50		
		Mal	u	e	07 28 07		
				eL	07 49		
252	" 23	Amb	Ir	ePN	08 26 55	23.1	
				iPN	08 26 58		
				iSE	08 31 06		
				iE	08 31 20		
				LE	08 34		
		Med	IIIr	PNE	08 27 19	25.0	in previous.
				iN	08 30 04		
				SE	08 31 46		
				iN	08 31 52		
		Bat	IIIr	iPZ	08 27 36		compression from NE, in previous.
				iPN	08 27 39	27.9	
				ePE	08 27 39		
				iSE	08 32 29		
				iSN	08 32 33		
				LZ	08 39		
		Mal	r	P	08 27 46		
				i	08 33 19		
				eS	08 32 12		
253	" 23	Amb	I	eN	16 26 19		
		Bat	I	eE	16 31 04		
				iE	16 33 17		
		Med	I	eE	16 33 43		
254	" 23	Med	Iv	iNE	17 43 57		faint.
255	" 27	Bat	Ir	iPE	03 42 38		
				eE	03 45 01		
		Med	Ir	ePE	03 42 39		faint.
256	" 27	Med	Iv	iPN	04 50 28	1.7	
				iSNE	04 50 50		
257	" 28	Med	Iu	ePE	16 51.9	55.1	faint in minute eclipse.
				eSE	16 59 46		
				LNE	17 13		
		Bat	Iu	iPZ	16 52 08	59.6	
				SN	17 00 25		
258	" 29	Amb	Iv	iNE	09 35 55		
				iE	09 36 08		
259	" 30	Amb	Ir	ePE	14 37 45	40.9	
				ePN	14 37 47		
				iSN	14 44 04		
				eLNE	14 54		
		Bat	IIIu	iPZ	14 40 09	60.1	dilatation from E.
				iPE	14 40 10		
				PN	14 40 11		

				SNE	14 47 53		
				LE	14 55		
				LN	14 57		
		Med	Iu	ePNE	14 41 20	71.1	faint.
				iN	14 41 35		
				SNE	14 50 42		
				LE	15 07		
260	" 30	Med	Iv	iE	20 34 15		
				iE	20 34 48		
261	" 31	Amb	Iv	ePE	02 15 03	5.3	
				ePN	02 15 05		
				eE	02 15 10		
				iE	02 16 01		
				SN	02 16 11		

June.

					h m s	degrees	
262	Jun. 1	Med	IIv	PN	02 06 31	2.0?	
				S?E	02 06 57		
				iS?NE	02 07 22		
263	" 1	Mal	v	e	06 59 58		
		Bat	Iv	iS	07 00 07	2.2	dilatation
				iPZ	06 59 48		
				iSNE	07 00 16		
264	" 1	Med	Iv	PNE	11 10 26		
				iN	11 10 56		
				iE	11 11 13		
265	" 2	Mal	v	P	23 47 59	1.1	
				iS	23 48 13		
266	" 4	Med	IIIv	PNE	21 26 33	3.1	felt at Paja Toempi (N.SUM).
				iSN	21 27 12		
267	" 4	Bat	Iv	PZNE	22 43 27		in micros.
268	" 5	Mal	v	i	12 24 34		
269	" 5	Med	Iv	PNE	17 41.1		faint in minute eclipse.
				iNE	17 41 30		
270	" 6	Med	Iv	iN	13 39 39		felt in Sum. W. Coast.
271	" 7	Mal	v	i	06 42 03		
272	" 7	Med	Iv	PNE	22 25 50	2.1	
				iSNE	22 26 17		
273	" 8	Med	Iv	eNE	07 31 59		faint traces.

					h m s	degrees	
274	Jun. 8	Amb	Iv	PNE SNE	08 14 31 08 15 31	4.9	traces.
275	" 8	Amb	Iv		09 20 10		traces.
276	" 8	Amb	Iv		09 25 11		traces.
277	" 8	Med	Iv	iN iN	20 09 03 20 09 32		
278	" 8	Med	Iv	PNE	20 21 06		
279	" 9	Med	Iv	PNE iN	14 00 35 14 01 11		
280	" 9	Mal Bat	v Iv	eP iS PZ eNE	18 25 30 18 26 08 18 25 39 18 25 50	3.0	felt in C. Java.
281	" 9	Amb Bat Mal Med	IIIv IIIr r IIIr	iPE PN ePZE iPZE SN SZ iNE LZ eP i iS PNE SNE iNE	19 15 31 19 15 32 19 19 39 19 19 43 19 23 27 19 23 34 19 23 37 19 27 19 19 43 19 19 51 19 23 22 19 21 12 19 26 05 19 26 33	20.0 19.4 28.3	pens thrown off; felt at Leksoela (Bgeroe). Azimuth 270°. dilatation from E.
282	" 9	Bat	Ir	ePZ SN	21 01 04 21 05 00	21.4	faint.
283	" 10	Amb	Iv	PNE	02 05.7		in minute eclipse.
284	" 10	Amb	Iv	ePN iN	05 24 21 05 24 33		aftershock 281.
285	" 10	Amb	Iv	ePNE iNE	07 50 18 07 50 30		aftershock 281.
286	" 10	Amb	v		08 26		traces.
287	" 10	Amb	Iv	PNE iE	09 08 47 09 08 55		aftershock 281.
288	" 10	Amb Med	Ir IIIr	ePNE iE eSN LE PNE iE iNE iE iS?E	09 59 41 09 59 54 10 04 42 10 07 10 00 25 10 02 42 10 04 45 10 05 33 10 06 02	29.3 34.3?	in micros.

					h m s	degrees	
288	Jun.10	Bat	IIIr	ePNE	10 00 42	37.0	in micros.
	(cont.)			PZ	10 00 43		
				iNE	10 01 04		
				iN	10 02 29		
				SNE	10 06 38		
				iN	10 06 47		
				eLZ	10 08		
				LZ	10 14		
				eLNE	10 15		
		Mal	r	P	10 00 53		
				i	10 01 12		
289	" 10	Amb	Iv	PNE	12 52.4	2.0	in minute eclipse.
				iSN	12 52 50		
290	" 10	Amb	IIIv	iPNE	21 01 57		felt at Leksoela (Boeroe)
291	" 11	Amb	Iv	ePNE	04 39 33	1.8	traces.
				iSE	04 39 56		
292	" 11	Amb	Iv	eNE	04 45 58		traces.
293	" 11	Amb	Iv	PN	06 48 13	1.5?	
				iPE	06 48 14		
				S?NE	06 48 32		
294	" 11	Amb	IIv	PNE	09 40 33	2.0	
				iSE	09 40 58		
295	" 11	Amb	Iv	iE	09 57 06		traces.
296	" 11	Amb		eE	11 11 07		traces.
297	" 11	Amb	Iv	eE	11 55 42		faint.
				iE	11 56 32		
298	" 11	Amb		eE	12 59 36		traces.
299	" 11	Amb	Iv	iPE	14 12 20	2.4	
				SN	14 12 50		
300	" 11	Bat	Iv	eP?NE	15 28.9	1.6?	faint in minute eclipse.
				iSNE	15 29 11		
				iN	15 29 36		
		Mal	v	i	15 29 20		
301	" 11	Amb	Iv	eE	17 46 24		faint traces.
302	" 11	Mal	v	P	19 03 15	1.0	
				iS	19 03 28		
303	" 12	Amb	Iv	ePE	17 14 20	1.7	
				SNE	17 14 42		
304	" 12	Amb	Iv	iPE	20 14 26	1.7	
				iE	20 14 40		
				SE	20 14 48		

					h	m	s	degrees	
305	Jun.13	Amb	IIIv	iPNE	06	55	10	1.6	
				iSE	06	55	30		
		Bat	Ir	PZ	06	59	17	21.0?	
					iNE	06	59	24	
					iN	07	00	26	
					S?N	07	03	11	
			Med	Ir	ePE	07	00	49	in micros,
					iN	07	01	49	
					iE	07	03	17	
306	" 13	Bat	Iv	PZ	22	54	44	2.2	
				iSNE	22	55	12		
				iN	22	55	36		
307	" 14	Amb	Iv	ePNE	20	15	31		
				iE	20	16	09		
308	" 15	Med	Iv	PE	02	16	17		felt at Kampong Air (Simeu- loeë Island).
				eNE	02	17	00		
309	" 15	Med	Iv	eP?E	04	26	29		
310	" 15	Med	Iv	PE	08	03	49		
				iE	08	04	41		
311	" 16	Amb	I	ePN	01	49	20		
		Bat	IIr	iPZE	01	51	58		
				iZ	01	56	08		
		Med	IIr	ePE	01	53	31	25.6?	in strong micros.
				eN	01	57	38		
				S?E	01	58	03		
				iN	02	02	51		
312	" 16	Amb	Ir	PN	02	21	36		
				iNE	02	21	50		
				LE	02	28			
		Med	IIIr	PNE	02	22	39	36.0?	in previous.
				iE	02	25	53		
				iS?NE	02	28	28		
				eLN	02	33			
				eLE	02	38			
		Bat	IIIr	PZNE	02	22	54		
				eZ	02	25	35		
				iN	02	26	12		
				iN	02	29	15		
				IZ	02	39			
		Mal	r	P	02	23	02	37.4?	
				i	02	24	47		
S?	02			29	01				
313	" 16	Med	Iv	iNE	12	48	28		
314	" 17	Med	Iv	eP?NE	00	37	32	1.2?	
				iSNE	00	37	47		
315	" 17	Amb	Iv	PNE	10	22	32	0.4	
				SNE	10	22	37		
316	" 17	Amb	Iv	PNE	12	53	57	1.8	
				SNE	12	54	20		

27.

					h m s	degrees	
317	Jun.18	Bat	Ir	ePZ	18 15 43		faint.
				S?N	18 17 48		
				eS?E	18 18 52		
				iZ	18 19 26		
		Med	Ir	eFN	18 17 39		
				S?E	18 21 57		
				iN	18 26 13		
318	" 20	Med	IIIv	PNE	02 50 31	3.0?	felt in N.Sumatra and on Simeulocë Island. Azimuth 240°.
				S?NE	02 51 09		
319	" 20	Bat	Iv	PZ	04 25 30	4.3	felt in Palembang and Ben- koelen (S.Sumatra).
				iSZE	04 26 23		
				iN	04 26 59		
		Med	Iv	eP?E	04 27 19		faint.
				eN	04 28 20		
				iSE	04 29 03		
320	" 20	Med	IIv	PNE	21 53 23	3.1?	felt in N.Sumatra; type 318
				S?NE	21 54 02		
321	" 20/21	Med	Iu	ePE	23 59 15	58.3?	faint.
				S?E	00 07.4		in minute eclipse.
				LE	00 16		
				LN	00 17		
		Bat	Iu	ePZNE	00 00 15		faint.
				eZ	00 01 00		
				iN	00 01 24		
				eLE	00 21		
				LZN	00 24		
322	" 21	Bat	I	iZ	06 39 08		
323	" 21	Med	I	PE	06 49.5		faint in minute eclipse.
				iE	06 50 25		in minute eclipse.
				eE	07 01.4		faint traces in previous.
		Bat			06 49.9		
324	" 21	Amb	Iv	ePN	15 02 35		time correction uncertain.
				iN	15 02 52		
325	" 23	Med	Iv	eP?N	09 42 08		faint traces.
				eE	09 42 48		
326	" 23	Amb	Iv	iE	11 56 02		
327	" 23	Amb	Ir	ePN	13 03 29	41.0	faint.
				eSN	13 09 48		
				LN	13 20		
				eLE	13 23		faint.
		Bat	Iu	PZ	13 05 45	61.0	
				PNE	13 05 46		
				iPZ	13 05 46		
				iSNE	13 14 10		
				LZ	13 21		
				eLNE	13 24		
				LE	13 28		
		Med	Iu	ePNE	13 07 02	71.2	in strong micros.
				iSNE	13 16 24		
				LNE	13 36		

328	Jun.26	Bat	IIIv	1PZ	20 27 20	3.9	compression from SW; felt in Lampongsche Districten (S.Sum.) and Banten (W.Java).
				iPNE	20 27 22		
				iNE	20 27 39		
				iE	20 28 05		
				iSN	20 28 09		
		Mal	v	P	20 27 42	4.7	time correction uncertain.
				i	20 28 16		
				S	20 28 40		
		Med	IIr	ePN	20 29 11	12.3	faint.
				eSNE	20 31 41		faint.
				eE	20 32 51		
				iN	20 33 16		
				eN	20 33.6		in minute eclipse.
329	" 26	Bat	Iv	PZ	20 37 25		aftershock in previous, felt in Bantam (W.Java).
				iZ	20 38 20		
330	" 26	Bat	Iv	ePZ	22 04 29	1.9	
				iSZNE	22 04 53		
331	" 27	Med	IIIv	ePNE	10 48 38	2.6	faint, felt at Paja Toempi (N.Sumatra).
				SE	10 49 11		
				iN	10 49 14		
332	" 27	Bat	Iv	PZ	10 56 16		in micros.
				ePE	10 56 18		
				iN	10 56 56		
				iE	10 56 59		
333	" 27	Mal			15 33		traces.
334	" 28	Mal	v	i	12 20 58		
335	" 28	Mal	v	1P	20 25 11	0.9	felt in Priangan (W.Java).
				iS	20 26 23		
		Bat	Iv	PNE	20 26 18	1.3	dilatation.
				1PZ	20 26 19		
				iSZE	20 26 35		
336	" 29	Bat	Ir	PZ	09 46 11	23.7	
				iSNE	09 50 28		
		Med	Ir	P			in strong micros.
				SE	09 51 35		
337	" 29	Amb	Iv	iNE	17 50 57		
338	" 30	Med	IIIv	ePN	11 04 31	2.2	
				PE	11 04 32		
				SN	11,04 59		
339	" 30	Med	IIIv	PNE	15 37		in hour sign.
				S?E	15 38 06		

CONSTANTS WIECHERT SEISMOGRAPHS.

BATAVIA .

	EW Component			NS Component			Z Component		
	V	T ₀	ξ	V	T ₀	ξ	V	T ₀	ξ
April	226	7.3	3.4	203	7.3	3.3	300	4.5	3.5
May	226	7.3	3.4	203	7.3	3.3	300	4.5	3.5
June	226	7.3	3.4	203	7.3	3.4	300	4.5	3.6

	e ₀ r		e ₀ r		e ₀ r	
	e ₀	r	e ₀	r	e ₀	r
April	1.11	0.64	1.09	0.64	1.17	0.62
May	1.08	0.51	1.10	0.56	1.15	0.54
June	1.09	0.56	1.11	0.74	1.18	0.68

MEDAN .

EW Component					NS Component				
V	T ₀	ξ	e ₀	r	V	T ₀	ξ	e ₀	r
219	5.2	3.8	1.07	1.0	228	4.3	2.3	1.11	0.9

AMBOINA .

EW Component					NS Component				
V	T ₀	ξ	e ₀	r	V	T ₀	ξ	e ₀	r
124	3.1	2.7	1.07	0.2	106	3.6	2.7	1.06	0.1

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Royal Magnetical and Meteorological Observatory

Batavia, Java.

July - September 1938
Remarks. Reports of Soengei Langka have not been inserted in this Bulletin.

July.

No.	Date	Station	Character	Phase	G.M.T.	Distance	Remarks
340	Jul.1	Med	Iv	PE	19 ^h 26 ^m 41	degrees 3.3	felt at Kampong Air (Simeuloëë).
				iN	19 27 11		
				iSNE	19 27 22		
341	" 3	Bat	Iv				no minute eclipses.
342	" 4	Med	Iiv	PNE	16 14 02	1.3	
				iSNE	16 14 19		
343	" 4	Bat	Iu	ePZ	21 22 55	61.3	
				iSNE	21 31 22		
344	" 5	Bat	Iu	iPE	02 14 09	60.2?	in strong micros.
				iS?NE	02 22 30		
				LZ			no minute eclipses.
		Med	Iu	P?E	02 15 23	75.7?	in strong micros.
				iN	02 23 55		
				iS?NE	02 25 09		
345	" 5	Bat	Iu	iN	03 05 48		in previous.
346	" 5	Mal	v	P	08 27 47	1.0	
				iS	08 28 00		
347	" 5	Med	Iv	ePNE	11 14 30	2.0	
				iSNE	11 14 56		
348	" 5	Mal	v	S	14 37 59		
349	" 5	Bat	Iu	ePN	22 17 41	64.1	
				PZ	22 17 42		
				iPE	22 17 43		
				iSN	22 26 26		
				LNE	22 42		

					h	m	s	degrees	
349	Jul. 5	Med	Iu	ePNE	22	18.8		72.4?	faint in minute eclipse.
	(Cont.)			iE	22	20	02		
				eS?E	22	28	14		
				eLNE	22	48			
350	" 6	Bat	Iu	iPZ	01	35	02	63.3	dilatation.
				PNE	01	35	05		
				iSN	01	43	41		
				eLZNE	02	00			
		Med	Iu	P?NE	01	36	09	75.7?	faint.
				PE	01	36	22		
				PN	01	36	29		
				iN	01	41	43		
				SN	01	45	55		
				iE	01	46	45		
				eLNE	02	04			
				LE	02	11			
351	" 6	Bat	Iu	PZ	09	50	12	63.0	aftershock in strong micros.
				PN	09	50	16		
				SN	09	58	49		
		Med	Iu	P?E	09	50	45		extremely faint.
				iE	10	01	55		
352	" 6	Mal	v	i	14	43	43		
353	" 6	Bat	Iv	ePE	22	02	51		
				ePZ	22	02	53		
354	" 7	Med	IIIv	PNE	15	50	32	1.2	
				iSNE	15	50	48		
355	" 7	Bat			16	27			traces.
356	" 7	Bat	I	PNE	17	33	39		faint.
				iN	17	40	33		
	" 8 and 9								swarm.
357	" 9	Med	Iv	PNE	01	13	26	1.2	
				iSNE	01	13	41		
358	" 10	Med	IIIv	ePNE	12	04	32	4.1	
				iPNE	12	04	36		
				iE	12	05	07		
				iS?NE	12	05	23		
				iE	12	05	46		
359	" 11	Amb	Iv	PN					no time correction.
360	" 12	Mal	v	i	03	42	50		
361	" 12	Med	Iv	eP?NE	09	00	43	4.6?	
				iN	09	01	18		
				SNE	09	01	39		
362	" 12	Bat	Iu	iPZ	12	47	36	61.3	time correction uncertain.
				iSN	12	56	03		
363	" 13	Mal	v	i	04	02	03		

					h m s	degrees	
364	Jul.13	Med	I	eP?N	13 56 50		
				ePE	13 57 16		
				iE	13 57.9		in minute eclipse.
				iN	13 58 15		
				iN	13 59 20		
365	" 14	Amb	Iv	PN	08 06 46	2.4	
				SN	08 07 16		
366	" 15	Amb	Iv	ePNE	07 19 14	1.2	
				iSE	07 19 29		
367	" 15	Mal	v	i	19 00 09		
				i	19 00 15		
	" 16						swarm.
	" 17						swarm.
368	" 17	Mal	v	i	12 30 14		
369	" 17	Mal	v	i	13 01 03		
	" 18						swarm.
370	" 18	Med	Iv	ePNE	04 22 05	0.9	
				iSNE	04 22 17		
371	" 18	Amb	Iv			1.0	iS - P = 13 sec.
372	" 20	Bat	I	iE	00 46 53		traces.
373	" 20	Med	I	iNE	12 04 16		faint traces.
374	" 20	Bat	Iv	P?Z	17 46 48		felt at Bringsing (C. Java).
				iE	17 51.2		in minute eclipse.
				iN	17 51 30		
375	" 21	Med	Iu	PE	09 20 34	56.8	
				iSNE	09 28 34		
376	" 22	Bat	I	iZNE	00 38 30		faint in micros.
377	" 22	Bat	Iv	iP?E	01 34 46	8.3?	faint in micros.
				iN	01 35 19		
				iS?E	01 36 31		
378	" 22	Bat	I	ePNE	02 00 21		faint in micros.
				iN	02 01 10		
379	" 22	Bat	Iv	PE	02 38 36	4.7?	
				iN	02 38 55		
				iS?NE	02 39 33		
380	" 22	Bat	Iv	ePE	02 54 59	6.1	
				iSE	02 56 18		
381	" 22	Bat	I	PE	03 31 31		
				iE	03 32 28		
				iZN	03 32 54		

					h	m	s	degrees	
382	Jul.22	Bat	I	ePZ	03	46	49		faint.
				PN	03	46	58		
383	" 22	Bat	Iu	iPZE	08	07	46		
		Med	Iu	PNE	08	08	15		
				iN	08	25	31		
				L?	09	34			
384	" 23	Amb	Ir	iPE	23	04	31		
				iPN	23	04	32		
				SN	23	07	58	18.1	
				iSE	23	08	05		
		Bat	Ir	iPZ	23	07	41		dilatation.
				iPE	23	07	43		
				iE	23	09	14		
		Med	IIr	PNE	23	08	59	46.8	
				iSE	23	15	55		
				SN	23	15	56		
385	" 24	Mal	v	i	08	55	55		
386	" 25	Mal	d	P	14	55	03	0.5	
				iS	14	55	10		
		Bat	Iv	ePNE	14	55	20	1.4	
				iSE	14	55	38		
				iN	14	56	33		
				iE	14	56	37		
387	" 25	Mal	v	i	15	24	51		
388	" 25	Med	I	PNE	23	47	22		
389	" 26	Med	I	iN	09	51	26		
390	" 26	Med	I	iN	14	51	22		traces.
				iN	15	01	28		
391	" 26	Mal	v	P	17	18	43		
				iS	17	18	45		
		Bat	Iv	iPZ	17	19	06	1.6	
				iSNE	17	19	27		
392	" 27	Med	I	P?N	17	11	00		
				eE	17	11	03		strong micros.
				eN	17	11	59		
				S?N	17	18	42		
393	" 27	Med	I	PN	23	11	28		
				iE	23	11	45		traces.
				iN	23	11	56		
394	" 28	Med	Iv	P?NE	06	07	58		micros.
				eE	06	08	43		
395	" 28	Mal	v	i	10	22	41		
396	" 28	Mal	v	i	12	58	53		traces.
397	" 29	Mal	v	iS	03	43	55		
398	" 29	Mal	v	i	06	13	24		

					h m s	degrees	
399	Jul.29	Mal	v	i	08 56 53		
400	" 29	Med	IIIv	iPNE	13 07 43	3.8	pens off; felt in Sum.West Coast (Sumatra). Deep focus. Provisional epicentre 100°E, 0°; 0 = 13 06 45; h = 100 km.
				iPE	13 07 45		
				S 2	13 08 24		
		Bat	IIIv	PN	13 08 57	9.2	
				PZ	13 08 58		
				iPE	13 08 58		
				iNE	13 12 03		
		Mal	v	eP	13 09 20	10.4	
				iS	13 11 17		
				iN	13 12 03		
		Amb	Ir	PNE	13 12 45	28.4	
				SNE	13 17 31		
				iNE	13 23 19		
				eLE	13 24		
				LN	13 25		
401	" 30	Mal	d	iP	04 29 36	1.4	felt in Priangan (W.Java).
				iS	04 29 54		
		Bat	Iv	PE	04 29 37	1.6	dilatation.
				iPZ	04 29 38		
				PN	04 29 39		
				iSNE	04 29 58		
402	" 30	Bat	I	iN	09 26 13		traces.
403	" 30	Mal	v	i	17 00 53		
				i	17 00 55		

August.

404	Aug.1	Med	Iv	ePNE	10 58 00	1.9	
				iSNE	10 58 24		
405	" 2	Med	Iv	PE	04 47 11		traces, felt at Sigli (Sum.).
406	" 2	Mal	v	P	19 59 15	0.8	felt in Priangan(W.Java).
				iS	19 59 25		
		Bat	Iv	PZNE	19 59 19	1.6	
				SNE	19 59 40		
407	" 3	Med	Iv	eP?E	21 55 53		extremely faint.
				iN	21 56 29		
				iE	21 56 37		
408	" 4	Mal		i	09 13 58		traces, may be local.
		Bat	Iu	PNE	09 14 25		
				iE	09 15 54		
		Med	Iu	P?E	09 14 38		
				iE	09 13 45		
				iE	09 24 51		
409	" 4	Amb	Iv	iPNE	15 41 13		

					h m s	degrees	
410	Aug. 5	Mal	v	i	22 04 46		
411	" 7	Bat	I	P?NE	01 17 20		faint.
412	" 7	Amb	Iv	ePNE SNE	19 29 20 19 29 43	1.8	
413	" 8	Amb	Iv	iPNE S?E SNE iE	09 36 11 09 36 47 09 36 52 09 37 05	3.3	
414	" 9	Med	Iv	ePE iN	04 52 59 04 53 29		
415	" 10	Med	IIIv	eP?E PNE iN iSNE	04 49 43 04 49 48 04 50 28 04 50 32	3.9?	
416	" 11	Amb	Iv	PNE SN	15 38.2 15 38 54	3.1	in minute eclipse.
417	" 12	Bat	I	P?Z eP?E iE	04 16 55 04 17 01 04 18 46		in strong micros.
418	" 12	Amb	Iv	PNE SNE	22 02 38 22 02 40		
419	" 12	Bat	Iv	PZ S?ZN	23 50 54 23 51 21	2.1	dilatation.
		Mal	v	P S	23 51 06 23 51 44	3.0	
420	" 14	Med	I	eP iN	12 47 12 48 20		in micros.
421	" 15	Med	I	iE	02 30 53		faint.
422	" 16	Amb	Iv	PE	01 59 14		
423	" 16	Med	IIIr	iPNE iSE	04 32 27 04 36 08	19.7	NS pen thrown off.
		Bat	IIr	PZ PN PE iSNE iE SLZ LZ	04 34 18 04 34 19 04 34 21 04 39 22 04 44 00 04 48 04 54	29.7	
		Amb	Ir	ePE iE SE	04 35 43 04 36 07 04 41 59	40.5	faint.
424	" 16	Med	Ir	eP?E S?E	06 08 20 06 11 57	19.2?	in previous; aftershock?
425	" 17	Amb	Iv	ePNE SN SNE	11 29 38 11 29 54 11 29 58	1.6	

					h m s	degrees	
426	Aug. 18	Amb	Iv	eP?N SE	04 02 17 04 02 39	1.7?	
427	" 18	S.L Bat	v IIIv	iPZ	09 31 19	2.8 4.7	S - P = 33 sec. deep focus; strong dilatation from WNW, Azimuth 295°, pens thrown off. Felt in Sum. West Coast, Palembang and Benkoelen, (S. Sumatra). Provisional epicentre 102.8°E, 3.8°S; O = 09 ^h 30 ^m 11 ^s ; h = 150 km. S _E - P _E = 52 sec. (Bosch).
		Mal	v	iP iS	09 31 32 09 32 32	5.9	
		Med	IIIv	iPNE S?NE	09 32 09 09 33 49	8.4	pens off.
		Amb	Ir	P?N iSN	09 35 28 09 39 57	25.4	in micros.
428	" 18	Bat	Ir	iPZ PNE SN	19 14 10 19 14 10 19 20 20	39.1	
429	" 18	Amb		iNE	22 21 57		traces.
430	" 19	Amb	Iv			3.8	S - P = 47 sec.
431	" 19	Med	Iv	PN iE SNE iE	22 37 47 22 38 03 22 38 30 22 38 39	3.4	
432	" 20	Med	Iv	P?E PN iS?N iN	04 18.9 04 19 01 04 19 42 04 20 33	3.9?	faint in minute eclipse. faint.
433	" 20	Amb	Ir	PN eE iE	05 06 35 05 10 55 05 13 18		
		Bat	Ir	P?ZE S?NE LZE	05 10 54 05 15 33 05 21	26.5?	
		Med	Ir	eP?E iE	05 13 18 05 17 51		faint.
434	" 20	Amb	Ir	PNE SN	08 35 54 08 39 53	21.7	
		Bat	Ir	iPZ DE iE iZ	08 39 09 08 39 10 08 40 41 08 41 05		
		Med	Iu	eP?E PN S?NE iE	08 40 05 08 40 23 08 47 26 08 47 40	50.7?	
435	" 21	Amb	Iv	ePNE iN	20 23 49 20 24 13		

					h	m	s	degrees	
436	Aug. 21	Amb	Iv	PN	20	28.7			in minute eclipse.
				iN	20	29	03		
437	" 22	Mal	v	iP	00	15	14	1.3	felt in Priangan (W. Java).
				iS	00	15	31		
		Bat	IIv	iPZ	00	15	15	1.7	
				PNE	00	15	15		
				iSNE	00	15	37		
438	" 22	Med	I	eP?E	21	46	03		
				iE	21	49	34		
				iE	21	55	24		
				eN	21	55.9			in minute eclipse.
				iN	21	56	29		
439	" 22	Amb	Iv	PE	23	45	14	2.3	
				SNE	23	45	43		
440	" 23	Bat	Iv	PZ	04	40	52	4.8	faint, felt at Liwa (S.Sum).
				ePE	04	40	53		faint in micros.
				iZ	04	41	47		
				SN	04	41	51		
441	" 23	Med	Ir	eP?E	08	27	06	41.6?	in strong micros.
				S?E	08	32	50		
				eSNE	08	33	29		
		Bat	I	iE	08	37	01		faint traces.
442	" 23	Mal	v	i	15	19.7			in minute eclipse.
443	" 23	Med	Iv	eP?E	18	32	15		in micros.
				ePN	18	32	29		faint.
				iN	18	34	10		
444	" 23	Med			22	50			traces.
445	" 24	Amb	Ir	iPN	15	46	23	10.7	felt on Soemba.
				iSN	15	48	36		
		Bat	Ir	ePNE	15	46	54	14.6?	
				iSEN	15	49	47		
		Med	IIr	iPNE	15	49	07	25.5	in micros
				iSE	15	53	39		
				iN	15	53	59		
				iN	16	01	45		
446	" 25	Bat	IIIv	iPZ	01	29	29	5.1	Deep focus. Dilatation; felt in Palembang and Benkoelen (S.Sumatra). Pens off. Epicentre near 101.9 E, 4.8 S $0 = 01^{\text{h}} 28^{\text{m}} 15^{\text{s}}$; h = 100 km. Soengei Langka S - P = 40 sec.
				iPNE	01	29	30		
				iN	01	30	00		
				SNE	01	30	26		
		Mal	v	P	01	29	43	6.1	
				iN	01	30	46		
				iSNE	01	30	51		
		Med	IIIv	iPNE	01	30	25	8.9	in micros, pens thrown off.
				iE	01	31	17		
				iN	01	32.0			in minute eclipse.
				iSNE	01	32	21		

					h	m	s	degrees	
447	Aug. 26	Amb	Iv	PNE	03	33	34		
448	" 27	Mal	v	P	10	21	13	2.9	felt in Central Java and on Noesakambangan.
		Bat	v	iS	10	21	50		
				iE	10	22	34		faint traces.
				iNE	10	22	43		
449	" 27	Med	Iv	ePNE	23	30	18		faint in micros.
				S?N	23	30	49	2.5	
				S?E	23	30	54		
450	" 29	Bat	Ir	iE	15	14	25		faint traces in micros, felt in Central Celebes.
451	" 29	Amb	Ir	ePN	15	25	57		
				iPNE	15	26	03	16.3	
				iE	15	26	10		
				SNE	15	29	13		
				iE	15	30	07		
				LE	15	31			
				LN	15	32			
		Bat	IIIr	iPE	15	27	55	24.9	
				iPN	15	27	56		
				iSNE	15	32	21		
				LE	15	42			
				LN	15	44			
		Med	IIIr	ePE	15	28	01		
				iPE	15	28	08		
				iN	15	33	44		
				LNE	15	38			
452	" 30	Med	I	eP?NE	04	36	16		faint traces.
				iE	04	38	12		
453	" 30	Mal	v	i	10	24	51		
454	" 30	Amb	Iv						no minute eclipses.
455	" 30	Bat	Iir	ePNE	11	56	22		
				iE	11	56	56		
				iE	11	58	28		
				iE	11	59	04		
		Med	IIIr	PNE	11	57	59	45.4	
				iN	11	58	13		
				iE	12	04	41		
				iSNE	12	04	46		
		Amb	Ir					17.6	no minute eclipses; S - P = 3 ^m 22 ^s
				L					
456	" 30	Mal	d	iP	15	12	09	1.2	pen thrown off; felt in Bantam and Priangan (W.Java).
				iS	15	12	24		
		Bat	IIIv	iPZNE	15	12	17	1.5	dilatation
				iSE	15	12	36		
				iN	15	12	56		

					h	m	s	degrees	
464	Sep. 4	Mal	v					3.1	S - P = 39 sec.; no hour signs.
		Bat	Iv	PZE	19	48	47	4.4	in micros, felt in Central Java and on Noesakambangan.
				iSE	19	49	43		
465	" 7	Bat	Ir	ePE	01	59	36	25.9?	felt at Beo (Talaud Island), dilatation.
				iPZ	01	59	37		in strong micros.
				ePN	01	59	38		
				iPE	01	59	38		
				iS?NE	02	04	10		
		Med	Ir	eP?NE	02	00	27		
				iPE	02	00	39		
				iE	02	05	09		
				iN	02	05	31		
				iE	02	06	31		
				iN	02	06	51		
				eE	02	07	39		
				eN	02	07	49		
466	" 7	Med	IIIr	iPE	04	09	30	28.5	
				PN	04	09	31		
				iSNE	04	14	25		
		Bat	Ir	iPZ	04	10	01	31.7	compression.
				iPN	04	10	02		
				PE	04	10	03		
				SE	04	15	20		
				LZ	04	22			
				LE	04	24			
467	" 7	Mal	r	P	13	06	47	43.5	
				iS	13	13	22		
		Bat	Ir	iPE	13	06	53	44.5	
				PN	13	06	53		
				SNE	13	13	34		
		Med	Iu	PE	13	07	45	53.0?	
				iS?N	13	15	20		
				iS?N	13	15	29		
				iN	13	16	34		
				iE	13	17	06		
468	" 8	Med	IIIv	iPNE	06	42	24		felt at Singkel (N.Sum.).
				iNE	06	42	34		
				iNE	06	42	49		
469	" 9	Med	Iv	eP?NE	07	06	56		
				iNE	07	07	02		
				S?E	07	07	26		
				S?N	07	07	54		
470	" 9	Med	Iv	PNNE	17	00	49		faint.
				eE	17	01.7			in minute eclipse.
				iN	17	02	09		
				iN	17	02	42		
471	" 9	Med	I		17	55	33		faint traces.
472	" 10	Med	Iv	ePN	22	28	05	2.7?	
				ePE	22	28	07		faint in micros.
				S?E	22	28	39		

					h	m	s	degrees	
473	Sep.14	Mal	d	iP	01	53	23	1.0	felt in Priangan (W.Java).
				iS	01	53	36		
		Bat	IIv	eE	01	53	33	1.7	
				iPZ	01	53	34		dilatation.
				iZ	01	53	38		
				iSNE	01	53	55		
474	" 14	Med	I	ePN	09	07	52		traces.
475	" 16	Mal	v	iS	10	53	40		
476	" 16	Mal	v	i	12	27	15		
477	" 17	Mal	v	i	05	10	27		
478	" 18	Med	IIv	ePE	20	36	55	2.5	
				PN	20	36	57		
				iSNE	20	37	27		
479	" 19	Mal	v	eP	11	26	49		
				iS	11	27	12		
		Bat	Iv	P					in micros.
				iSE	11	27	39		
				iE	11	28	14		
480	" 20	Bat	I	iE	13	56	22		tracés.
				iE	13	56	39		
481	" 20	Med	I	PE					in micros.
				iS?E	15	52	0		in minute eclipse.
				SNE	15	52	33		
482	" 21	Bat	Iv	PZNE	09	33			in hour sign
483	" 21	Med	Iu	P?NE	19	01	02		in strong micros.
				S?NE	19	07	55		
				S?NE	19	08	39		
				eLE	19	19			
		Bat	Iu	iPZ	19	01	22	53.1	
				ePE	19	01	22		
				iPNE	19	01	23		
				iSNE	19	08	48		
				eLZ	19	21			
				eLE	19	23			
484	" 22	Med	Iv	iNE	20	33	00		faint.
485	" 25	Mal	v	i					no time correction.
486	" 25	Bat	I	ePZE	20	23	58		in micros.
				iE	20	33	25		
487	" 25	Mal	v	P					dubious.
				iS	21	43	43		
		Bat	Iv	iPZ	21	43	54	1.3	
				iSZNE	21	44	10		
488	" 25	Bat	Iv	ePE	23	58	56	2.0	in micros, felt in Cheribon (W,Java).
				ePZ	23	58	59		
				iSZNE	23	59	22		

					h m s	degrees	
489	Sep.26	Med	Iv	PE	05 02	4.6?	in strong micros.
				PN	05 02 43		
				S?NE	05 03 39		
				iE	05 04 09		
490	" 26	Med	IIIv	ePN	09 43 10	6.5?	in micros.
				S?NE	09 44 33		
		Bat	I	eZ	09 46 59		in micros.
				eN	09 47 02		in micros.
				eE	09 47 04		in micros.
				SE	09 47 59		
				iN	09 48 22		
491	" 27	Bat	Iu	ePZNE	02 42 58		in micros.
				iPZ	02 43 00		
				eS?N	02 52 04		
				eS?E	02 53 01		
		Med	Iu				traces in strong micros.
492	" 27	Med	I	eP?N	10 23 04		in micros.
		Bat	I	ePNE	10 23 44		in micros.
				ePZ	10 23 46		
				eS?N	10 29 50		
				eLZE	10 43		
493	" 28	Med	I	iE	18 22 40		
		Bat	I	eP?Z	18 23 16		
				eP?E	18 23 18		
				eNE	18 24 08		
				iN	18 33 10		
494	" 28	Med	Iv	ePNE	21 00 19		in micros.
				iN	21 00 28		
495	" 29	Med	IIv	PN	00 51 19		
				SE	00 52 39		
				iSN	00 52 43		
				iSN	00 52 47		
				iE	00 52 51		
		Bat	Ir	PNE	00 52.6		traces in minute eclipse.
				iE	00 54 15		
				iN	00 54 33		

CONSTANTS WIECHERT SEISMOGRAPHS.

BATAVIA.

	EW Component			NS Component			Z Component		
	V	T ₀	ξ	V	T ₀	ξ	V	T ₀	ξ
July	226	7.3	3.4	203	7.4	3.4	300	4.4	3.5
August	226	7.3	3.3	203	7.4	3.4	300	4.4	3.7
September	226	7.2	3.4	203	7.3	3.4	300	4.5	3.6

	e ₀ r		e ₀ r		e ₀ r	
	e ₀	r	e ₀	r	e ₀	r
July	1.09	0.58	1.09	0.73	1.14	0.26
August	1.09	0.63	1.08	0.47	1.14	0.37
September	1.10	0.65	1.08	0.44	1.13	0.35

MEDAN.

EW Component					NS Component				
V	T ₀	ξ	e ₀	r	V	T ₀	ξ	e ₀	r
219	5.2	3.8	1.07	1.0	228	4.3	2.3	1.11	0.9

AMBOINA.

EW Component					NS Component				
V	T ₀	ξ	e ₀	r	V	T ₀	ξ	e ₀	r
124	3.1	2.7	1.07	0.2	106	3.6	2.7	1.06	0.1

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Seismological Bulletin 1938

Royal Magnetical and Meteorological Observatory

Batavia, Java.

October - December 1938



Remarks. Reports of Soengei Langka have not been inserted in this Bulletin. The seismograph at Amboina was still out of working order.

October.

No.	Date	Station	Character	Phase	G.M.T.			Distance	Remarks
					H	m	s		
496	Oct. 4	Bat	I	E	08	33		degrees	traces.
497	" 4	Bat	IIv	PZNE	22	30	17	4.4?	faint in strong micros, felt in Palembang and Benkoelen (S.Sumatra).
		Mal	v	S?NE ePN iSN	22	31	11 30 37	5.3	dubious.
		Med	IIIv	PE ePN SN iNE	22	31	10 11 59 06	8.6	in micros.
498	" 4/5	Mal	v	PN iNE iN	23	57	25 34 37		felt in East Java.
		Bat	Iv	PZ PE iSZNE iE	23	57	33 35 55 02	6.4	faint in micros. faint in micros.
		Med	Ir	iE PE SNE iN iE	23	59	08 19 26 45 24 37	17.3	faint in micros.
499	" 6	Mal	v	PNE iSNE	18	00	25 36	0.8	felt at Simpang (W.Java).
500	" 7	Bat	Ir	ePZE iEE iSN eLZ	00	56	23 07 19 07	21.4	in micros; felt in Menado (NE Celebes) and on Tidore and Halmaheira (Moluccas).

					h	m	s		
500	Oct. 7 (Cont.)	Med	IIr	ePNE	00	57	25	86.8	in strong micros.
				iSN	01	02	07		
				iE	01	02	21		
501	" 7	Med	I	iNE	03	11	17		traces.
				iE	03	19	21		
502	" 7	Med	IIIr	PNE	06	13	25	10.9?	
				iE	06	14	20		
				iNE	06	14	28		
				iE	06	14	49		
				iS?NE	06	15	39		
				iN	06	16	06		
		Bat	Ir	PZNE	06	16	18		
				iN	06	20	06		
				iN	06	20	24		
				iE	06	23	03		
				iNE	06	25	38		
503	" 7	Med	Ir	PNE	06	59	01	20.0?	in previous.
				iN	07	02	05		
				iNE	07	02	16		
				iE	07	02	34		
				iS?N	07	02	45		
				iE	07	02	59		
504	" 7	Med	Iv	P?E	07	49	25		in strong micros.
				P?N	07	49	34		
				iN	07	50	28		
				iNE	07	50	32		
505	" 7	Med	IIr	PE	10	55	33		in micros.
				iPN	10	55	38		in micros.
				iE	10	56	56		
				iE	10	57	36		
				iN	10	57	47		
		Bat	Ir	P					in strong micros.
				iN	11	03	53		
506	" 7	Med	IIIv	PN	16	25	37	7.2	Azimuth 306°.
				iPE	16	25	38		in micros.
				iPN	16	25	39		
				iSNE	16	27	08		NS pen thrown off.
		Bat	Ir	ePZ	16	28	24		faint.
				ePE	16	28	25		in micros.
				iE	16	31	04		
				iE	16	35	30		
				eLZ	16	35			
507	" 8	Med	I	P?E	10	42	10		in micros.
				iP?N	10	42	32		
				iE	10	44.3			in minute eclipse.
				iE	10	44	38		
				iN	10	44	52		
508	" 8	Med	I	PE	20	48	00		
				iN	20	51	52		
				iE	20	52.3			in minute eclipse.

					h	m	s		
509	Oct. 9	Bat	Iu	PZNE	16	47	44	66.6	
				SE	16	56	41		
		Med	Iu	PNE	16	48	55	8000	faint traces.
				eSN	16	59	03		
510	" 9	Med	IIIv	PE	20	41	02	5.9?	
				iPN	20	41	03		
				iS?N	20	42	18		
				iS?E	20	42	23		
				iNE	20	42	17		
		Bat	Ir	ePZ	20	43	57		extremely faint.
				iNE	20	52	39		
511	" 10	Mal	r	ePE					too faint.
				iPE	20	53	02		
				iN	20	53	28		
				iS?E	20	56	56		
				iS?E	20	57	10		
				iE	20	57	19		
		Bat	IIIr	ePE	20	53	03	22.0	felt in Manado (NE Celebes) and on Halmaheira (Moluccas). dilatation
				iPZE	20	53	06		
				iSE	20	57	04		
				iN	20	57	15		
				LZ	21	01			
		Med	IIIr	PE	20	53	58	27.7	
				ePN	20	54	02		
				iPE	20	54	02		
				iPN	20	54	07		
				iE	20	56.4			in minute eclipse.
				iN	20	57	45		
				iE	20	58.4			in minute eclipse.
				SN	20	58	46		
512	" 10	Bat	I	eP?Z	21	26	23		faint in previous.
				iNE	21	29	34		
513	" 11	Bat	Ir	eP?N	00	12	52		felt at Manado (NE Celebes).
				PZNE	00	12	56		
				iS?E	00	16	39	20.0?	
				iS?N	00	16	56	22.133	
				LZE	00	21			
				eLN	00	22			
		Med	Ir	PNE	00	13	51		in micros.
				iNE	00	16	54		
				S?E	00	18	16	24.7?	
				S?N	00	18	31	26.6?	
				iE	00	18	59		
				iN	00	22	46		
514	" 11	Med	Iv	P?NE	03	01	34		
				iN	03	01	51		
515	" 11	Med	Ir	P?E	08	47	30	11.8?	faint traces.
				S?E	08	49	55		
516	" 11	Mal	d	PNE	08	03	55	0.8	felt in Priangan (W.Java).
				iSNE	08	04	06		

					h	m	s		
517	Oct.12	Med	Iu	PNE					in change of papers.
				iSNE	00	51	45		
				LN	01	03			
				LE	01	04			
		Bat	Iu	iPZE	00	44	28	56.2	faint in micros.
				iSNE	00	52	24		
				eLZ	01	12			
				LZ	01	18			
518	" 13	Med	Ir	PNE	15	32	30	31.3	
				iE	15	37	10		
				SE	15	37	46		
				iE	15	42	27		
				iE	15	49	06		
		Bat	Ir	iPNE	15	33	05		
519	" 14	Mal	v	iPE	22	26	19	0.8	felt at Coenoeng Besser (W.Jaw)
				iPN	22	26	21		
				SNE	22	26	15		in minute eclipse.
		Bat	Iv	iPZ	22	26	34	1.5	
				iPE	22	26	35		
				iSNE	22	26	53		
520	" 16	Mal	v	P?E	20	28	16	0.8?	
				iSNE	20	28	26		
521	" 17	Mal	d	iPN	03	58	09		pens thrown off immediately.
522	" 18	Med	Iv	iNE	09	44	48		faint.
523	" 18	Mal	v	ePE	13	57	37	0.7	
				iSNE	13	57	46		
524	" 19	Bat	Iv	iPZ	03	44	36	1.8	felt in Bantam (W.Java).
				iSNE	03	44	59		
		Mal	v	ePNE	03	44	41	2.0	
				iSNE	03	45	06		
525	" 19	Med	Iu	PN	04	21	50	45.9	
				ePE	04	21	51		
				SNE	04	28	40		
				iNE	04	40	35		
		Bat	Iu	iPE	04	23	21	57.5	in micros.
				PZ	04	23	24		
				SE	04	31	25		
				LE	04	45			
				LZN	04	46			
526	" 19	Mal	v	PNE	14	16	54	1.3	time error?
				iSNE	14	17	11		
		Bat	Iv	PE	14	16	57	1.3	
				iSNE	14	17	14		
527	" 20	Mal	r	PN	02	23	00	15.3?	felt on the Lesser Soenda Island
				S?NE	02	26	00		
		Bat	IIIr	iPZNE	02	23	18	16.5	compression from ESE.
				S?E	02	26	22		
				iS?NE	02	26	30		
		Med	IIIr	ePNE	02	25	05	20.5	

					h	m	s				
527	Oct.20 (Cont.)	Med	IIIr	ePNE	02	25	05	26.5			
				iPNE	02	25	09				
				iNE	02	27	49				
				iN	02	29	36				
				iSE	02	29	44				
528	" 20	Mal	r	iNE	02	35	03		aftershock in previous; felt on the Lesser Soenda Islands. in previous.		
		Bat	IIr	iN	02	35	16				
				iZ	02	35	40				
										several aftershocks.	
529	" 20	Bat	Ir	P?NE	09	56	42		faint in strong micros; felt on Flores (E. of Java)		
				iN	09	58	20				
				eN	09	58	26				
				eE	09	58	32				
				iN	10	00	29				
		Med	Ir	iE	10	01	39				
				iN	10	08	40				
				PNE	09	58	49				
				eN	10	07	53				
				iN	10	09	13				
		eE	10	11	49						
530	" 21	Med	Ir	P?NE	06	54	17	41.7?	in micros.		
				iSE	07	00	41				
		Bat	Iu	PZ	06	54	54			47.0	in micros.
				iZ	06	55	00				
				SNE	07	01	51				
531	" 21	Med	IIIv	PE	10	45	40	2.8	felt in Atjeh (N.Sum.).		
				iSNE	10	46	15				
				iE	10	46	46				
532	" 21	Med	Ir	iPE	20	30	47	32.6			
				iN	20	31	00				
				iSE	20	36	12				
				iN	20	39	27				
				eLE	20	40					
		Bat	Ir	LN	20	41					
				PZ	20	32	05			41.1	compression from WNW.
				ePN	20	32	07				
				iPZE	20	32	08				
				iSN	20	38	25				
533	" 23	Med	Iu	iPE	15	11	32	58.9			
				iPN	15	11	34				
				iSE	15	19	45				
				SN	15	19	47				
				eLNE	15	33					
		Bat	Iu	iPZE	15	12	06			63.7	dilatation. faint in minute eclipse.
				SNE	15	20	8				
534	" 24	Mal	v	PNE	22	16	12	1.4			
				SNE	22	16	30				
		Bat	Iv	PZE	22	16	36			2.6	
				iPZ	22	16	39				
				iSN	22	17	12				
				iE	22	17	28				

				h m s					
535	Oct.25	Mal	d	iPNE	00 02 48	1.3	felt in W. Java.		
				iSN	00 03 05				
		Bat	IIIv	iPZNE	00 02 56	1.9	dilatation from SSW; Z pen thrown off. Azimuth 95°. Deep focus?		
								11	
				Med	Ir	iNE iNE iSNE iN	00 03 11 00 03 14 00 03 20 00 10 35		
536	" 25	Bat	Ir	PZ	02 37 45	14.4	in micros, felt at Poso (C.Celebes).		
				iSE	02 40 36				
537	" 25	Med	IIv	iPN	13 07 36	4.8	1 1		
				iNE	13 07 44				
				iSE	13 08 38				
				iN	13 08 51				
538	" 26	Med	IIIr	eP?NE	03 32 13	24.7?			
				iPNE	03 32 20	23.9			
				iSNE	03 36 38				
				iN	03 37 40				
				Bat	Ir	iNE iPZE iE iE	03 38 39 03 33 57 03 43 32 03 46 03		
		539	" 27	Med	Iv	ePNE	05 10 19	2.5?	dubious in micros.
						iS?N	05 10 50		
540	" 27	Med	Iv	ePN	22 44 13	1.7	felt at Blang Sentang(N.Sum.).		
				iSN	22 44 35				
541	" 28	Med	Iv	P?E	22 49 44		in micros.		
				iE	22 50 11				
542	" 28	Med	IIIv	eP?E	22 53 31		dubious in previous.		
				P?E	22 53 39				
				iPN	22 53 43	4.0	in previous.		
				iSNE	22 54 32				
				Bat	Ir	ePZ eE iE	22 55 49 22 59 01 23 00 05		faint in micros.
		543	" 29	Med	Iv	PNE	00 36		in hour mark.
						iE	00 38 19		
544	" 29	Med	Iv	ePNE	01 27 05	3.2?	aftershock.		
				iS?NE	01 27 45				
545	" 29	Med	Iv		06 06 59		traces.		
546	" 29	Med	Iu	ePE	13 17 27	48.3	dubious.		
				eSE	13 24 32				
				iE	13 25 43				
				Bat	Iu	ePNE iSN	13 17 40 13 25 04	51.1	in micros.

					h m s		
547	Oct.29	Mal	v	PN	22 54 59	6.7	felt in East Java, on Bali and Lombok
				iPE	22 55 00		
				iSNE	22 56 24		
		Bat	IIIv	iPZNE	22 55 15	7.5	dilatation from ESE
				iN	22 56 18		
				SN	22 56 50		
				iZNE	22 57 47		
		Med	IIIr	iPNE	22 57 41		in micros.
				iSN	23 01 20	19.5	
				iSE	23 01 28	20.3	
548	" 30	Mal	v	PNE	08 19 28	3.4	felt on Java and Bali.
				iSNE	08 20 11		
		Bat	IIV	eP?Z	08 19 47	4.7?	in micros.
				ePZN	08 19 53		faint.
				SNE	08 20 44		
				iZ	08 20 58		
				iE	08 21 36		
		Med	Ir	ePE	08 22 51		
				PE	08 23 07		
				iPN	08 23 08		
				iNE	08 29 28		

November.

549	Nov. 1	Mal	v	iNE	12 16 53		
550	" 1	Mal	v	iNE	19 59 21		
551	" 1	Mal	v	PNE	20 53 49	0.8	
				iSNE	20 54 00		
552	" 3	Med	I	ePE	07 05 19		
				iE	07 05 42		
553	" 4	Bat	IIV	PZ	15 21 30	2.6	felt at Kota Agoeng (S.Sum.). Soengei Langka: S - P = 10 sec. Distance 0.7°.
				PNE	15 21 34		
				SNE	15 22 03		
				iSNE	15 22 07		
		Mal	v	eF	15 21 48		traces.
				eE	15 22 42		
554	" 5	Med	Iv	ePNE	00 33 05	1.2	
				iSNE	00 33 21		
555	" 5	Med	IIIu	PNE	08 52 33	51.7	
				iE	08 52 41		
				iN	08 52 45	52	
				iE	08 53 56		
				iNE	08 58 36		
				iSE	08 59 57		
				SN	09 00 00		
				eLN	09 05		

51.

					h	m	s				
555	Nov. 5 (Cont.)	Bat	IIIu	iPZ	08	52	47	53.7	dilatation. in micros.		
				PNE	08	52	49				
				iSNE	09	00	27				
				eLE	09	09					
				eLN	09	11					
		Mal	u	LE	09	15		strong strong			
				LN	09	16					
				PN	08	53	02				
				iE	08	53	08				
				eN	09	00	29				
		eLN	09	10							
556	" 5	Med	IIIu	iPE	10	59	31	52.0	masked by the previous one.		
				PN	10	59	33				
				SN	11	07	00				
		Bat	IIIu	PNE	10	59	45	53.4 53.4	in previous. Two shocks, in- terval 22 sec. strong.		
				iNE	11	00	07				
				SNE	11	07	23				
				i(S)NE	11	07	45				
				LNE	11	23					
		557	" 6	Med	IIIu	ePE	09	02	52	52.0	preliminary tremor. in strong micros. preliminary tremor in strong micros.
						ePN	09	02	59		
iPNE	09					03	16				
iE	09					03	23				
SE	09					10	45				
Bat	IIIu			iPZ	09	03	23	53.1	compression from NNE. strong. strong.		
				iPNE	09	03	24				
				iSNE	09	10	59				
Mal	u			LZ	09	22					
				LE	09	24					
		ePNE	09	03	29						
		iN	09	03	58						
		eE	10	11	04						
558	" 6	Bat	Iu	PZ	17	28	41	53.4	extremely faint.		
				eSNE	17	36	19				
559	" 6	Med	Iu	PE	21	13	29	53.1	faint in micros. in micros.		
				iS?N	21	21	28				
		Bat	Iu	PZ	21	13	21				
				PN	21	13	25				
				SN	21	20	57				
560	" 6	Med	IIIu	PNE	21	48	06	51.1			
				iPN	21	48	11				
				iPE	21	48	14				
				iE	21	55	19				
				iSNE	21	55	30				
		Bat	IIu	ePNE	21	48	09	52.8			
				PZN	21	48	12				
				iPE	21	48	17				
		SN	21	55	46						

No.	Date	Mag.	Type	Code	Time			Mag.	Remarks
					h	m	s		
561	Nov. 7	Med	Iu	iP?E	00	56	50	52.0?	in micros.
				PE	00	57	18		
561	Nov. 7	Bat	Iu	S?E	01	04	47	53.1	in micros.
				eL?NE	01	23			
				PZ	00	57	24		
				SNE	01	05	00		
562	" 7	Med	Iu	iP?N	01	47	43	51.8?	in micros.
				iS?N	01	55	10		
				iE	01	56	14		
		Bat	Iu	eLE	02	07		53.2	extremely faint.
				LNE	02	10			
				ePZ	01	47	51		
563	" 7	Med	Iu	P?E	04	25	06	52.0?	dubious in strong micros.
				SE	04	32	35		
563	" 7	Bat	Iu	iN	04	34	44	53.2	dubious in micros.
				PN	04	25	11		
				SN	04	32	49		
564	" 7	Bat	Iu	PZ	19	21	56	54.0	faint in micros.
565	" 7	Med	Iu	SNE	19	29	38	53.9	in micros. dubious in minute eclipse. compression in micros.
				P?NE	19	42	50		
565	" 7	Bat	Iu	P?E	19	42.9		53.9	dubious in minute eclipse. compression in micros.
				iPZNE	19	43	01		
				iSN	19	50	42		
566	" 9	Med	Iu	PNE	09	25	05	50.9	dubious in micros.
				iSNE	09	32	27		
		Bat	Iu	iPZ	09	25	21	52.7	dilatation. in minute eclipse.
				SNE	09	32.9			
567	" 9	Mal	v	iPNE	18	02	03	2.6	felt in Central Java.
				iSNE	18	02	36		
568	" 10	Med	Iu	P?E	10	55	14	53.2	extremely faint.
				iE	11	00	36		
				S?E	11	02	15		
		Bat	Iu	S?N	11	02	19		
				P?Z	10	55	29		
				iS?E	11	02	50		
569	" 10	Med	IIIu	PN	20	32	17	99.1	in micros.
				PE	20	32	18		
				iE	20	35	13		
				iN	20	37	01		
		Bat	IIIu	iSN	20	43.9		in	in minute eclipse; NS pen thrown off.
				LE	21	01			
				ePZ	20	32	18		
				LN	21	00			
569	" 10	Bat	IIIu	LZN	21	05		strong. strong.	
				LE	21	06			
570	" 11	Med	Iu	P				too faint	
				iN	01	21	37		
				eLNE	01	52			
570	" 11	Bat	Iu	Cl	01	14		traces.	

					h	m	s		
571	Nov.11	Med	IIIv	PN	19	23	39	5.6	in micros, felt in Sum. W. Coast and Benkoelen (Sumatra). in micros.
				PE	19	23	42		
				iN	19	24	39		
				SNE	19	24	51		
				iE	19	25	29		
		Bat	Iv	ePE	19	24	12	8.1	in micros.
				iSN	19	25	55		
				iE	19	26	05		
572	" 12	Mal	r	ePE	06	10	49	18.6	
				iE	06	13	59		
				iSE	06	14	20		
		Bat	Ir?	PZE	06	10	53	19.0	compression. Felt on the Lesser Soenda Islands.
				ePN	06	10	55		
				iN	06	14	12		
				iSNE	06	14	28		
		Med	Ir	P?E	06	13	07		
				iSE	06	17	37		
				iN	06	19	11		
573	" 12	Bat	I	iNE	06	22	42		in previous.
574	" 12	Bat	Iu	ePNE	15	00	56	66.8	
				iSE	15	09	55		
				eSN	15	10	06		
		Med	Iu	PE	15	01	14	70.4	
				iE	15	07	39		
				SN	15	10	32		
				eLE	15	26			
575	" 13	Mal	v	PNE	03	46	56	0.8	felt in Priangan (W.Java).
				iSNE	03	47	06		
576	" 13	Bat	Ir	PZ	04	58	45	27.0?	dilatation.
				iPZ	04	58	47		
				PNE	04	58	48		
				iPNE	04	58	50		
				iN	05	03	16		
				iS?N	05	03	28		
		Med	Ir	iPE	04	59	10		
				PN	04	59	12		
				iN	05	04	53		
				iE	05	05	05		
577	" 13	Med	Iu	PNE	13	23	58	61.3	uncertain in micros.
				SNE	13	32	25		
		Bat	Iu	PNE	13	24	08	62.0	in micros.
				eSE	13	32	39		
578	" 13	Mal	v	PNE	16	22	48	1.2	
				iSNE	16	23	04		
579	" 13	Med	IIu	PE	22	40	46	51.2	
				iSE	22	48	10		
				iE	22	49	05		
				L?E	23	02			
				L?N	23	05			

No.	Date	Station	Type	Code	h m s			Mag.	Remarks						
					h	m	s								
579	Nov.13 (Cont.)	Bat	Iu	PZ	22	40	54	53.4							
				eSN	22	48	31								
				SE	22	48	40								
				LZ	23	09									
580	" 13	Mal	v	ePNE	23	37	37	1.0	felt in West and Central Java.						
				iSE	23	37	50								
				iSN	23	37	53								
581	" 14	Bat	I	PNE	12	15	05	49.0?	faint in micros.						
				iN	12	20	33								
				LE	12	32									
		Med	Iu	ePNE	12	16	02		extremely faint.						
				PNE	12	16	37		faint in micros.						
				iN	12	17	04								
				eS?NE	12	23	8		in minute eclipse.						
				iE	12	24	09								
				eLE	12	38									
				LN	12	39									
582	" 14	Bat	IIIv	PNE	12	39	57	2.6	in previous, felt in S.Sumatra Soengei Langka: S-P=15 sec. Distance 1.1°.						
				SNE	12	40	29								
				iN	12	40	33								
		Mal	v	iNE	12	40	36								
				iNE	12	40	41								
				iPE	12	40	16								
				iNE	12	40	53								
				iE	12	41	13								
				Med	Ir	P?E	12			42	15	faint in previous.			
		SE	12			44	25			10.5?					
		SN	12			44	33			11.2?					
		583	" 15			Med	Iv			iPN	10	31	57		
										584	" 15	Bat	IIIv	iPZNE	21
		iPNE	21			02	22								
		585	" 16	Med	IIIv	iSNE	21			03	44	6.9			
iZNE	21					03	50								
eP?NE	21					02	17								
iPNE	21					02	25								
iSN	21					03	53								
Mal	v			iE	21	04	03								
				iPNE	21	02	36	7.7							
				iSNE	21	04	14								
				586	" 17	Med	Iu	PE	11	17	11			51.0?	too faint in micros. dubious in micros.
								eP?N	11	24	34				
Bat	Iu	iPZE	11					17	34	53.5?					
		iPN	11					17	36						
586	" 17	Mal	v	eS?NE	11	25	31								
				iNE	02	13	17								

					h	m	s		
587	Nov. 17	Med	Iu	ePNE	04	08	17		
				iNE	04	18	41		
				eSE	04	19	50	98.4	
				iSE	04	20	01	101.3	
				eLNE	04	35			
				LE	04	43			
				LN	04	44			
		Bat	Iu	PNE					in strong micros, faint minute eclipses.
				ePZ	04	08	24		extremely faint.
				iNE	04	12	02		
				iN	04	18	58		
				SE	04	20	06	100.7	
				iSE	04	20	10	101.8	
				eLZ	04	37			faint.
eLNE	04	42			faint.				
LZ	04	43							
LN	04	45							
588	" 18	Mal	v	PE	12	17	47	0.4	
				ePN	12	17	48		
				iSNE	12	17	53		
589	" 18	Bat	Iu	P?E	14	22	13	54.2?	dubious in micros.
				SNE	14	29	56		
		Med	Iu	P?N	14	23	08	65.6?	uncertain in micros.
				eNE	14	24	22		
				SNE	14	32	00		
iN	14	33	49						
590	" 18	Med	Ir	PNE	15	36	41	20.6	faint.
				iPNE	15	36	45		
				SE	15	40	30		
		Bat	Ir	PNE	15	36	51		faint traces.
591	" 20	Bat	Ir	P?Z	18	02	40	24.3	in micros.
				PNE	18	02	44		in micros.
				iSNE	18	07	01		
		Med	Ir	PE	18	04.5		35.0?	in minute eclipse.
				iE	18	08.5			in minute eclipse.
				iS?E	18	10	12		
592	" 20	Med	Iv	iPE	21	45	59		felt on Breueh Island.(N.Sum.).
				iN	21	46	16		
593	" 20	Bat	IIIv	iPZNE	22	19	12	1.3	dilatation; felt in W. Java.
				iSZNE	22	19	29		NS pen thrown off.
		Mal	d	iPNE	22	19	24	2.2	
				iSNE	22	19	51		
		Med	Ir	eP?N	22	21	36		faint.
				iSNE	22	26	21		
594	" 21	Med	IIIr	PNE	01	17	08	26.0	in micros.
				iSNE	01	21	43		
				iN	01	23	04		
		Bat	Ir	PZNE	01	18	47	36.4	
				SE	01	24	36		
				SN	01	24	38		
				iE	01	25	17		

					56.				
					h	m	s		
595	Nov.21	Med	I	ePN	07	05	03		faint.
596	" 21	Mal	v	ePNE	09	05	59	6.9	
				iSNE	09	06	11		
597	" 21	Mal	d	iPNE	09	06	42	0.8	felt in Priangan (W.Java).
				iSNE	09	06	53		
		Bat	Iv	iPZE	09	06	53	1.7	
				iSNE	09	07	15		
598	" 21	Mal	v	iNE	10	34	48		
599	" 22	Med	IIu	iPNE	01	23	15	51.5	
				iSNE	01	30	41		
		Bat	IIu	iPZ	01	23	26	52.7	
				iPNE	01	23	30		
				iSN	01	31	00		
				SE	01	31	03		
		Mal	u	iN	01	26	42		
				iN	01	32	07		
600	" 22	Mal	v	iNE	16	03	29		
601	" 25	Bat	Iu	iP?E	08	29	57	52.4?	in micros.
				SE	08	37	29		
				iNE	08	45	06		
		Med	Iu		08	54			traces of rather long waves.
602	" 25	Bat	Iv	PE	09	03	29		in micros; felt at Goenceng Raja (S.Sumatra).
				iN	09	05	00		
		Mal	v	iNE	09	04	47		
603	" 25	Bat	Ir	PN					too faint; felt in Central Celebes.
				iPE	22	00	52	15.4	
				iSNE	22	03	53		
		Med	Ir	PE	22	02	40	25.0?	
				ePN	22	02	42		faint.
				iNE	22	06.3			in minute eclipse.
				iN	22	06	26		
				iSEE	22	07	14		
				iN	22	08	50		
				iN	22	12.3			in minute eclipse.
				iN	22	13	56		
604	" 25	Med	Iv	ePNE	23	02	50	3.5?	in micros; felt at Sigli and on Breueh Island (N.Sumatra).
				PN	23	02	56		
				iE	23	03	01		
				iS?N	23	03	33		
				iNE	23	04	02		
605	" 25	Bat	Iv	P?E	23	14	53		
				iNE	23	15	02		
		Med	I	P?N	23	14	58		faint traces.
606	" 26	Bat	Iv	PE	12	42	03	4.8	felt in Palembang and Benkoelen (S.Sumatra.)
				iNE	12	42	19		
				iSN	12	43	05		
				iE	12	44	06		

					h	m	s	
607	Nbv.26	Mal	v	iNE	18	41	20	felt at Daradjat (W.Java).
608	" 27	Mal	v	iN	17	42	53	
609	" 27	Bat	I	PZ	22	15	51	
				PNE	22	15	52	in micros.
				iNE	22	17	32	
				iN	22	19	46	
		Med	I	P?NE	22	17	18	extremely faint.
				iE	22	24	39	
610	" 29	Med	Iu	ePE	13	48	46	51.4 uncertain in micros.
				iSE	13	56	11	
				L?NE	14	11		
		Bat	Iu	ePNE	13	48	56	53.1
				iSNE	13	56	32	
611	" 30	Med	IIu	iPNE	02	39	04	51.87
				iN	02	41	40	
				iNE	02	46	15	
				eS?NE	02	46	32	
				eLNE	02	56		faint.
		Bat	IIu	iPZ	02	39	10	53.9
				PNE	02	39	12	
				iSZNE	02	46	51	
				eLZ	02	56		
				LZ	02	58		
612	" 30	Bat	I		15	33		traces.
<u>December.</u>								
613	Dec. 1	Bat	Ir	iPZ	02	20	40	44.5 compression.
				PN	02	20	41	uncertain in micros.
				iPE	02	20	43	
				iSZNE	02	27	21	
				eLZ	02	38		faint.
		Med	IIu	PNE	02	21	06	48.9
				iSNE	02	28	15	
				eLE	02	36		
614	" 2	Mal	d	iPNE	09	40	35	0.6 felt in W.Java.
				iSNE	09	40	43	EW pen thrown off.
		Bat	IIIv	iPZ	09	40	45	1.1 dilatation.
				iPNE	09	40	46	
				iSZNE	09	41	00	
		Med	Ir	eP?NE	09	43	11	extremely faint.
				iN	09	45	21	
615	" 2	Mal	v	PNE	09	49	28	0.9 felt in Priangan (W.Java).
				iSNE	09	49	40	
616	" 2	Mal	v	iN	10	45	37	traces; felt at Tjampaka (W.Jave

					h	m	s		
617	Dec. 2	Med	IIIv	PN	14	13	46	1.2	felt in North and Central Sumatra; azimuth 195°
				iPE	14	13	48		
				iSNE	14	14	02		pens thrown off.
		Bat	Ir	P?NE	14	16	21		dubious in micros.
				iNE	14	17	26		
618	" 2	Bat	I	P?E	17	15	55		extremely faint.
				iN	17	16	10		
				iE	17	16	56		
619	" 3	Mal	v	iNE	11	52	23		
620	" 3	Med	Iu	eP?E	12	20	49	49.2?	
				P?E	12	20	52		
				P?N	12	20	55		
				S?E	12	28	00		
				iNE	12	29	01		
		Bat	Iu	PN	12	21	03	53.0	faint in micros.
				iPE	12	21	05		
				eSNE	12	28	35		
				iSNE	12	28	38		
621	" 3	Mal	v	iNE	15	23	47		
622	" 3	Mal	v	iNE	16	43	38		
623	" 4	Mal	v	PNE	01	40	33	0.9	felt at Simpang (W.Java).
				iSNE	01	40	45		
624	" 4	Bat	I	ePZ	16	32	37		
				iE	16	43	38		
		Med	I	iN	16	34	42		faint traces.
625	" 5	Mal	r	ePNE	17	49	27		felt on Flores and Lombok (E. of Java).
				iE	17	52	08		
				eS?N	17	52	13		
				iN	17	52	28		
		Bat	Ir	ePZNE	17	49	29		faint in micros.
				iPZ	17	49	33		
				iN	17	51	56		
		Med	Ir	PNE	17	51	28	28.8?	
				iS?NE	17	56	25		
626	" 5	Med	Iv	ePE	23	10	33		
				iN	23	11	12		
				iE	23	11	23		
				iN	23	11	56		
627	" 6	Med	IIIv	eP?e	07	04	27		
				PNE	07	04	44		
				iN	07	05	16		
				iE	07	05	21		
				iN	07	06	10		
628	" 6	Med	IIr	PNE	23	06.9		32.5?	in minute eclipse.
				iS?E	23	12	49		
				iN	23	16	44		
		Bat	Ir	iPZNE	23	07	19	34.9?	
				eS?NE	23	13	00		
				eLZ	23	20			faint.

			h m s				
629	Dec. 7	Med	Iu	P?E	13 13 21	55.3	traces.
				iN	13 15 01		
		Bat	Iu	PZ	13 13 53		
				SNE	13 21 43		
630	" 7	Bat	Iu	PZ	13 32 24	45.7	faint in previous.
				iPE	13 32 27		
				SNE	13 39 13		
				eLZ	13 45		
				LZE	13 48		
		Med	Iu	LN	13 50	54.3	faint.
				ePN	13 33 36		
				iPE	13 33 37		
				iSE	13 41 20		
				iN	13 41 48		
		LE	13 58				
631	" 7	Mal	v	iNE	14 40 03		
632	" 7	Med	I	ePE	15 07 01		
				iPN	15 07 04		
				iN	15 12 05		
		Bat	I	PZN	15 07 26		
				iE	15 17 10		
633	" 8	Med	I	ePE	21 56 55		
				iN	21 57 02		
				iE	21 57 20		
				iN	21 57 40		
634	" 9	Med	I	P?NE	05 08.8		faint traces in minute eclipse, traces.
		Bat	I		05 09 13		
635	" 11	Bat	I	PZ	04 20 39		faint traces.
				iN	04 26 35		
		Med	I	P?E	04 21 55		
636	" 11	Med	IIIv	ePNE	22 19 52	0.9	felt in N. Sumatra; azimuth 246° NS pen thrown off.
				iPNE	22 19 55		
				iSNE	22 20 04		
637	" 12	Mal	v	iPNE	08 58 18	0.9	felt at Lemah Neundeut (W.Java)
				iSNE	08 58 33		
		Bat	Iv	PN	08 58 39	2.0	
				SNE	08 59 04		
638	" 12	Mal	v	PE	15 08 10	0.9	
				iSNE	15 08 22		
639	" 13	Bat	I	ePZ	02 19 19		dubious.
				iPZ	02 19 23		
				iE	02 23 00		
				iE	02 23 54		
				eLZ	02 28		
				eLE	02 29		
		Med	I	eP?E	02 19 36	extremely faint.in micros.	
				iN	02 26 43		

					h	m	s	
		Bat	Iu	LNE PZ iSNE	17	34 42 57 35	06	55.0
641	" 14	Mal	d	PNE iSNE	12	54 54	41 53	0.9
		Bat	Iv	iPZNE iSNE	12	54 55	46 03	1.3
642	" 14	Bat	Iu	iPZNE SNE	13	09 18	13 01	65.0
643	" 14	Mal	v	iNE	16	21	51	
644	" 15	Bat	Iu	P?Z iPZNE iSE	09	22 22 31	36 48 46	66.7
		Med	Iu	P?N P?E SNE	09	23 24 34	59 04 01	78.8?
645	" 15	Mal	v	iN	19	53	48	
646	" 16	Mal	v	iNE	16	26	21	
647	" 16	Bat	Iu	iPZ PNE iSNE LN LZE	17	32 32 40 51 52	02 04 46 51 52	64.1
		Med	IIu	eP?N iE iSNE LNE	17	33 33 43 00	25 31 07 00	74.9?
648	" 16	Bat	Iu	PZN iE S?N eLZE LZ	23	25 25 34 41 47	20 29 07 41 47	64.7?
		Med	Iu	eP?N eP?E iE iSE iE	23	26 26 27 36 37	48 59 31 31 12	
649	" 17	Med	Iv	ePE ePN iE iN	04	46 47 47 48	58 02 45 01	
								in micros in micros
650	" 17	Med	Iu	ePE iE	16	43 01	46 12	
		Bat	Iu	P?NE iN eLE LZN	16	45 54 04 07	03 15 04 07	dubious.

in hour mark

felt in W. Java.

dilatation.

dilatation.

compression.

strong
faint in micros.

No.	Mag	Station	Type	Code	Time (h m s)
652	18	Mal	v	iNE	07 35 06
653	18	Med	I	P?E LE	21 56 17 22 15
654	19	Med	I	ePNE	18 33 51
655	21	Mal	r	P?NE	12 29.5
		Bat	IIr	iNE PZ PNE iE iNE eLZ	12 31 30 12 29 44 12 29 45 12 32 11 12 32 15 12 35
		Med	IIIr	PNE iNE iN	12 32 00 12 36 07 12 36 49
656	22	Mal	v	iNE	05 31 55
657	22	Mal	v	iNE	10 00 23
658	22	Mal	v		10 22 00
659	22	Med	I	P?N iNE	17 01 24 17 08 05
		Bat	I	iPZ iSNE	17 04 28 17 08 51
660	22	Mal	v	PNE iSNE	17 52 42 17 52 54
		Bat	Iv	PZ iSE	17 52 58 17 53 28
661	24	Mal	v	18	18 49 28
662	24	Mal	v	eE iNE	20 02 47 20 03.5
663	24	Bat	Ir	P?E P?N iE	20 14 57 20 14 59 20 15 54
664	25	Mal	v	i	02 43 02
665	26	Mal	v	ePNE SNE	18 04 43 18 05 11
		Bat	Iv	ePZNE PZNE SN eZ iN iZ	18 04 58 18 05 00 18 05 42 18 06 05 18 06 18 18 06 42
666	27	Mal	v	iN	02 44 26

24.5

0.9

2.2

2.2

3.4

traces in micros.

faint traces.

faint.

in minute eclipse; felt on the Lesser Soenda Islands.

faint.

traces.

traces.

dubious.

felt in Priangan (W. Java).

traces.

in minute eclipse.

felt at Manckwari. (N. Guinee).

traces.

in figure 1
 it is shown that the
 (continued) - Two stations
 traces in strong motion

Station	Time	Component	Amplitude
100	10:18:00	W	0.10
100	10:18:00	N	0.10
100	10:18:00	E	0.10
100	10:18:00	U	0.10
100	10:18:00	V	0.10
100	10:18:00	T	0.10
100	10:18:00	R	0.10
100	10:18:00	L	0.10
100	10:18:00	S	0.10
100	10:18:00	B	0.10
100	10:18:00	O	0.10
100	10:18:00	P	0.10
100	10:18:00	Q	0.10
100	10:18:00	J	0.10
100	10:18:00	F	0.10
100	10:18:00	M	0.10
100	10:18:00	G	0.10
100	10:18:00	D	0.10
100	10:18:00	C	0.10
100	10:18:00	K	0.10
100	10:18:00	H	0.10
100	10:18:00	I	0.10
100	10:18:00	A	0.10
100	10:18:00	M	0.10
100	10:18:00	N	0.10
100	10:18:00	X	0.10
100	10:18:00	Y	0.10
100	10:18:00	Z	0.10

Figure 1

CONSTITUTIONAL VIBRATION

TABLE 1

Station	Time	Component	Amplitude
100	10:18:00	W	0.10
100	10:18:00	N	0.10
100	10:18:00	E	0.10
100	10:18:00	U	0.10
100	10:18:00	V	0.10
100	10:18:00	T	0.10
100	10:18:00	R	0.10
100	10:18:00	L	0.10
100	10:18:00	S	0.10
100	10:18:00	B	0.10
100	10:18:00	O	0.10
100	10:18:00	P	0.10
100	10:18:00	Q	0.10
100	10:18:00	J	0.10
100	10:18:00	F	0.10
100	10:18:00	M	0.10
100	10:18:00	G	0.10
100	10:18:00	D	0.10
100	10:18:00	C	0.10
100	10:18:00	K	0.10
100	10:18:00	H	0.10
100	10:18:00	I	0.10
100	10:18:00	A	0.10
100	10:18:00	M	0.10
100	10:18:00	N	0.10
100	10:18:00	X	0.10
100	10:18:00	Y	0.10
100	10:18:00	Z	0.10

Station	Time	Component	Amplitude
100	10:18:00	W	0.10
100	10:18:00	N	0.10
100	10:18:00	E	0.10
100	10:18:00	U	0.10
100	10:18:00	V	0.10
100	10:18:00	T	0.10
100	10:18:00	R	0.10
100	10:18:00	L	0.10
100	10:18:00	S	0.10
100	10:18:00	B	0.10
100	10:18:00	O	0.10
100	10:18:00	P	0.10
100	10:18:00	Q	0.10
100	10:18:00	J	0.10
100	10:18:00	F	0.10
100	10:18:00	M	0.10
100	10:18:00	G	0.10
100	10:18:00	D	0.10
100	10:18:00	C	0.10
100	10:18:00	K	0.10
100	10:18:00	H	0.10
100	10:18:00	I	0.10
100	10:18:00	A	0.10
100	10:18:00	M	0.10
100	10:18:00	N	0.10
100	10:18:00	X	0.10
100	10:18:00	Y	0.10
100	10:18:00	Z	0.10

Station	Time	Component	Amplitude
100	10:18:00	W	0.10
100	10:18:00	N	0.10
100	10:18:00	E	0.10
100	10:18:00	U	0.10
100	10:18:00	V	0.10
100	10:18:00	T	0.10
100	10:18:00	R	0.10
100	10:18:00	L	0.10
100	10:18:00	S	0.10
100	10:18:00	B	0.10
100	10:18:00	O	0.10
100	10:18:00	P	0.10
100	10:18:00	Q	0.10
100	10:18:00	J	0.10
100	10:18:00	F	0.10
100	10:18:00	M	0.10
100	10:18:00	G	0.10
100	10:18:00	D	0.10
100	10:18:00	C	0.10
100	10:18:00	K	0.10
100	10:18:00	H	0.10
100	10:18:00	I	0.10
100	10:18:00	A	0.10
100	10:18:00	M	0.10
100	10:18:00	N	0.10
100	10:18:00	X	0.10
100	10:18:00	Y	0.10
100	10:18:00	Z	0.10