



OBSERVATIONS

MADE AT THE

ROYAL MAGNETICAL AND METEOROLOGICAL OBSERVATORY

AT

BATAVIA.

PUBLISHED BY ORDER OF THE GOVERNMENT OF NETHERLAND'S EAST-INDIA.

by

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Director.

VOL. XXIII. 1900.

Containing the meteorological and magnetical Observations and seismometric Records made in 1900,
Results of meteorological Observations during the period 1866—1900, and two Appendices.

BATAVIA.

PRINTED AT THE GOVERNMENT PRINTING OFFICE

1902

**Earthquakes and Tremors registered at the Batavia Observatory by means of the selfrecording
Seismograph—Milne during the year 1900.**

Greenwich mean Civil Time.

Batavia Observatory = 7^h 7^m.3 E. of Gr.

N ^o .	Date.	Commen- cement.		Durat. prel. tremors. min.	Maxima.		Amplitude.		Duration. min.	Remarks.	Earthquake felt at:	
		h.	m.		h.	m.	mM.	.			Island.	
	1900.											
150	January	1	2 7.5		2	10.8	0.8	0.4	14	Very small		
151	"	3	22 11.0		22	21.6	1.2	0.4	12	Small.		
152	"	5	18 58.9			24.6	1.2	0.4		Clockwork stopped; earthquake register- ed by the other seis- mographs and by the magnetograph. Com- mencement from Eh- lert's tripendulum, no preliminary tre- mors. movement im- mediately strong.	Kepahiang (Pa- lembang).	Sumatra.
153	"	6	9 33.7		9	34.9	1.2	0.6	3	Very small.	Buitenzorg.	Java.
154	"	10	19 21.0		19	25.3	1.6	0.8	15	Small.	Sukabumi.	Java.
155	"	11	9 17.9		9	21.2	2.4	1.2	90.	Moderate.		
						28.0	2.4	1.2				
						29.7	3.2	1.6				
						32.2	2.6	1.3				
						39.0	2.4	1.2				
156	"	13	10 22.5	no.	10	22.7	12	0.6	31	Very small.		
						23.1	12	0.6				
157	"	14	0 3.8	no.	0	5.3	10	0.5	4	" "	Sukabumi.	Java.
		14	16 13.7	0.2	16	13.9-15.9	?	25"	31	Very strong, registered by all the seismo- graphs and the mag- netograph.	"	"
158	"	14	18 26.3		18	27.5	1.2	0.6	2	Very small.	Sukabumi.	Java.
159	"	14	23 1.7		23	2.7	0.6	0.3	2	" "		
160	"	15	0 42.8		0	44.0	1.2	0.6	2	" "		
161	"	15	17 34.9		17	35.3	1.2	0.6	4	Small.		
						36.1	2.4	1.2				
162	"	15	20 36.2		20	46.0	0.6	0.3	24	Very small.		
163	"	18	5 3.9	4.0	5	8.3	2.0	1.0	41	Moderate. Preliminary tremors very striking.		
						13.4	1.6	0.8				
						13.9	1.4	0.7				
						19.3	1.4	0.7				
						19.9	1.6	0.8				
164	"	20	6 53.7	1.0	6	56.0	1.0	0.5	108	Small. From 7 ^h 46 ^m till 8 ^h 14 ^m pulsations with amplitude of 0'.05 and period of 30 ^{sec} .		
						7 3.7	1.0	0.5				
						8 18.6	1.0	0.5				
						8 18.9	0.8	0.4				
165	"	21	1 36.5		1	39.7	1.2	0.6	13	Small.	Benkulen.	Sumatra.
166	"	21	22 49.0		22	52.9	0.6	0.3	8	Very small.		
167	"	24	7 15.1	7.4	7	23.7	1.0	0.5	26	Small.		
						33.0	1.0	0.5				
168	"	27	6 56.4	4.1	7	0.7	1.4	0.7	37	"		
						5.7	1.4	0.7				
						6.5	1.4	0.7				
						13.7	1.2	0.6				
169	"	28	5 59.0	0.7	6	10.7	8.0	4.0	52	Moderate.	Preanger Banjumas Cheribon	Java.
						14.2	8.0	4.0				
						16.7	2.4	1.2				
						19.0	3.0	1.5				
						20.7	2.0	1.0				
						21.7	1.6	0.8				

Earthquakes and Tremors—Batavia.

No.	Date.		Commencement.		Dural. prel. tremors.	Maxima.		Amplitude.		Duration.	Remarks.	Earthquake felt at:		
						h.	m.	mm.	"					min.
170	1900. January.		29	h.	m.	3.7	h.	m.	mm.	"	74	Moderate.	Island.	
				22	39.0		22	45.9	6.6	3.3				
								48.8	3.4	1.7				
								50.1	2.8	1.4				
								50.8	2.8	1.4				
171	"		31	19	36.3	19	36.6	1.2	0.6	26	Small.			
							39.8	1.2	0.6					
172	February.		6	29.0		6	29.4	0.8	0.4	8	Small.			
173	"		3	4	45.7	0.3?	4	16.7	1.0	0.5	75	Moderate.		
								17.7	1.5	0.8				
								19.2	2.4	1.2				
								21.2	2.6	1.3				
								23.0	4.0	2.0				
174	"		5	1	45.7	1	16.5	3.0	1.5	8	Moderate. Earthquake from the volcano Tangkuban Prahū; Residency Preanger-Regentschappen, Java. Motion N—S. Commencement from seismograph Ewing 1 ^h 15 ^m 49 ^{sec} , and seismograph Ehlert 1 ^h 13 ^m 0 ^{sec} ; time noted by observator 1 ^h 15 ^m 17 ^{sec} .	Preanger.	Java.	
							17.1	3.0	1.5					
175	"		9	8	1.2	8	1.7	0.8	0.4	5	Very small.			
176	"		13	6	45.5		6	50.6	1.0	0.5	27	Small.		
								51.8	0.8	0.4				
								53.2	0.8	0.4				
								56.6	0.8	0.4				
177	"		20	21	49.7	5.1	21	55.5	1.0	0.5	23	Very small.	Bantam.	Java.
178	"		21	11	5.5		11	5.6	0.8	0.4	3	Very small. Earthquake felt by many persons. Time noted by observator 11 ^h 5 ^m 12 ^{sec} . Time seismograph Ewing 11 ^h 4 ^m 45 ^{sec} . Time seismograph Ehlert 11 ^h 5 ^m 36 ^{sec} .		
								6.4	1.0	0.5				
179	"		23	4	38.9		4	41.9	1.0	0.5	7	Very small.		
180	"		24	0	16.1		0	19.9	1.0	0.5	10	" "		
181	March.		8	18	56.7		18	57.7	1.0	0.5	10	Very small.	Sukabumi.	Java.
182	"		9	2	31.5	6.3	2	58.7	1.8	0.9	100	Moderate.		
							3	2.6	1.6	0.8				
							3	3.3	1.6	0.8				
183	"		10	13	27.5	0.3	13	28.6	1.0	0.5	14	Small.		
								29.2	1.2	0.6				
												Between March 11 & 28 instrument evidently inactive by insensibility, though the time of vibration was found by two		

BATAVIA

SEISMOLOGICAL RECORDS

1901.

Earthquakes and Tremors registered at the Batavia Observatory by means of the self-recording Seismograph—Milne during the year 1901.

Greenwich mean Civil Time.

Batavia Observatory = 7^h 7^m 3^s E. of Gr.

No.	Date.	Commen- cement.		Durat. prel. tremors. min.	Maxima.		Amplit. (°)		Total Duration. min.	Remarks.	Earthquake felt at.
		h.	m.		h.	m.	mm.	"			
	1901.										
	January	4	18 24.7	3.3	18	30.2	2.6	1.0	8	Small.	
270	"	6	7 17.0		7	17.3	0.8	0.3	7	Very small.	
						20.2	0.7	0.3			
281	"	7	0 51.2	12.6	1	18.2	1.1	0.4	145	Moderate.	
					2	13.6	4.0	1.6			
						21.1	4.1	1.6			
						28.0	5.4	2.1			
282	"	8	19 32.2		19	49.2	3.1	1.2	55	Moderate.	
283	"	13	22 52.2	7.8	23	2.0	1.1	0.4	50	Small.	
284	"	18	15 43.5		15	53.7	1.1	0.4	20	Very small.	
285	"	26	8 28.2		8	30.7	2.0	0.8	10	" "	
286	"	30	15 50.0	9.2	16	0.4	2.2	0.9	35	Small.	
287	February	1	21 48.3		21	55.2	0.8	0.3	20	Very small.	
288	"	2	17 15.0		17	24.4	1.0	0.4	30	" "	Minahassa.
289	"	9	13 7.7		13	14.2	4.0	1.7	25	Moderate.	Central part.
290	"	14	4 50.2		4	56.3	1.3	0.6	20	Small.	
291	"	15	8 15.8	3.4	8	19.7	7.0	3.1	35	Moderate.	
						21.3	8.0	3.4			
						25.3	3.0	1.3			
292	"	17	23 34.2		23	34.4	0.8	0.3	2	Very small.	
293	"	19	3 25.9		3	28.2	2.3	0.9	10	Small.	Res. Lampongs.
294	"	20	9 51.4	4.2	10	5.7	1.5	0.6		"	Sumatra
295	March	2	11 42.2		11	42.9	0.8	0.3	10	Very small.	
296	"	2	16 21.6		16	24.4	1.0	0.4	11	" "	
297	"	4	16 17.2	5.2	16	24.3	7.0	2.9	40	Moderate.	Halmahera
298	"	5	11 7.1		11	42.7	0.8	0.3	80	Small.	
299	"	16	12 14.1	10.5?	12	43.2	4.5	1.8	100	Moderate.	
300	"	19	20 30.6	3.9	20	40.2	7.0	2.8	45	"	Amboina
						42.9	5.5	2.2			
301	"	23	14 57.7		15	6.6	1.1	0.4		Small.	
302	"	30	15 59.5		16	0.2	1.0	0.4		Very small.	
303	April	5	21 57.8	7.6	22	8.7	5.1	0.2	40	Moderate.	Minahassa.
			23 18.7		23	19.7	0.6	0.3	3	Very small.	"
			23 41.3	8.8	24	14.8	14.0	5.6	140	Strong.	"
						20.7	14.0	5.6			
						28.7	8.6	3.4			
304	"	6	19 13.5		19	40.3	2.3	0.9	100	Moderate.	
305	"	18	3 58.3	4.0	4	8.5	2.0	0.8	30	Small.	Fakfak.
						9.5	2.4	1.0			New-Guinea
306	"	24	17 9.7	1.0	17	13.7	2.4	1.0	20	Small.	
307	"	25	7 22.7		7	24.8	1.7	0.7	6	"	
308	"	27	4 14.7		4	25.0	2.0	0.8	30	"	
309	May	8	0 41.7		0	42.7	1.0	0.4	7	Very small.	
310	"	25	0 34.7		1	11.1	5.0	2.5	120	Moderate.	
311	"	28	4 56.7		4	57.2	1.0	0.5	7	Very small.	
312	"	28	19 29.4		19	40.3	1.3	0.6	30	Small.	
313	June	12	5 25.5		5	25.8	1.2	0.5	11	Very small.	
314	"	24	16 1.9		6	42.8	5.0	2.8	130	Moderate.	Moluccos.

(¹) Whole amplitude, vide preface.

Earthquakes and Tremors—Batavia.

No.	Date.	Commencement.		Durat. pre-tremors. min.	Maxima		Amplitude.		Total Duration. min.	Remarks.	Earthquake felt at:	
		h.	m.		h.	m.	mm.	"			Island.	
	1901.											
315	June	24	13 53.6		13 16.9	1.0 = 0.6		40	Small.			Island.
316	"	25	23 41.3		23 41.9	0.7 0.4		3	Very small.			
317	July	4	14 20.1		14 22.6	0.9 0.4		5	Very small.			
318	"	14	9 44.2		9 44.8	1.7 0.7		8	" "	Res. Preanger.		Java.
319	"	15	14 50.7		14 51.0	1.1 0.5		5	" "	Western part.		Java.
320	August	9	9 33.2	2.0	9 41.7	4.2 1.8		130	Moderate.			
321	"	9	13 11.3		13 28.4	26.0 11.2		260	Very strong.			
					41.4	30.0 12.9						
					48.4	32.6 14.0						
					51.0	36.0 15.5						
					14 2.9	20.4 8.8						
322	"	9	18 42.4	9.5	19 13.2	14.0 6.0		130	Strong.			
323	"	10	10 48.0	11.6	10 59.4	0.7 0.3		90	Moderate.			
					11 30.2	0.6 0.3						
324	"	11	14 38.3		15 17.5	1.0 0.4		90	"			
325	"	18	2 8.2	5.2	2 16.1	2.6 1.3		40	"			
					18.2	2.5 1.3						
326	"	19	19 49.4	4.7	19 57.0	4.2 2.1		40	"			
					20 0.4	3.0 1.5						
327	September	7	22 40.9	3.7	22 46.7	26.0 13.0		70	Strong.	Sakita, Tontoli.		Celebes.
					50.7	26.0 13.0						
					59.9	12.0 6.0						
					23 2.5	7.3 3.7						
328	"	8	17 51.7		18 20.7	3.0 1.5		90	Moderate.			
329	"	9	23 56.7		24 9.0	1.2		20	Small.			
330	"	10	4 33.7		4 39.7	2.5		20	"			
331	"	24	7 4.5		7 9.6	1.5		50	"	Central part.		Java.
332	"	28	15 50.1		16 8.2	1.3 0.6		50	"			
333	"	30	10 36.9		10 37.4	2.0 1.0		55	"			
					59.9	1.6 0.8						
					11 3.0	1.9 0.9						
					4.5	1.9 0.9						
334	October	8	2 41.1		3 3.7	1.0 0.5		130	Small.			
					4 9.0	1.0 0.5						
335	"	9	3 31.5		3 32.7	0.6 0.2		3	Very small.	Preanger. Res.		Java.
336	"	13	18 25(?)		18 27	0.6 0.2		6	" "			
337	"	19	9 1.7		9 8.2	1.0 0.4		25	Small.			
					10 2	1.0 0.4						
338	"	19	9 58.7		10 8.7	4.0 1.6		60	Moderate.			
339	"	22	8 59.7		8 0.0	1.0 0.4		2	Very small.	Tjiandjur.		Java.
					0.9	0.9 0.4						
340	November	13	9 31.7	9.0	9 47.5	2.0 1.0		80	Small.			
341	"	17	5 20.7		5 33.2	1.0 0.5		15	Very small.			
342	"	25	1 54.7		2 5.2	18.0 9.0		70	Strong.	Minahassa.		Celebes. Halmahera.
					9.5	10.0 5.0						
343	December	9	13 43.3		13 43.5	1.0 0.6		3	Very small.	Tjiandjur.		Java.
					44.6	1.8 1.1						
344	"	14	23 2.7	4.3	23 8.3	40.0 16.0		100	Strong.			
345	"	25	10 14.8		10 29	1.0 0.4		60	Small.			
346	"	30	± 5 35		5 50.1	1.2 0.5		100	"			
					6 28.2	1.2 0.5						

BATAVIA
SEISMOMETRIC RECORDS
1902.

**Earthquakes and Tremors registered at the Batavia Observatory by means of the selfrecording
Seismograph—Milne during the year 1902.**

Greenwich mean Civil Time.

Batavia Observatory = 7^h 7^m.3 E. of Gr.

No.	Date.	Commen- cement.		Durat. prel. tremors.	Maxima.		Amplit.		Total Duration.	Remarks.	Earthquake felt at:	
		h.	m.		h.	m.	mm.	mm.			Locality.	Island.
	1902.											
347	January	3	16	57.8		16	59.7	1.4=0.6	40	Small.		
348	"	9	0	2.8		0	8.4	0.7 0.3	60	Very small.		
349	"	12	22	23.1	4.2	22	29.6	18 7	80	Strong.	Kepahiang.	Sumatra.
							30.6	35 1.4				
							31.7	18 7				
							33.0	22 9				
350	"	26	17	7.9	1.0	17	9.0	3.0 1.3	20	Small.		
351	"	"	23	59.5	1.0	24	0.6	13.0 5.4	27	Moderate.		
352	"	30	14	10.0	8.0	14	18.4	2.7 3.0	30	Moderate.		
353	February	3	23	25.9		23	27.2	3.1 3.4	25	Moderate.		
354	"	5	15	26.8	1.3	15	27.8	1.5 0.8	40	Small.		
							28.7	3.0 1.6				
355	"	7	4	43.7		4	43.9	1.1 0.6	6	Small.		
356	"	9	7	45.5	1.1	7	47.7	1.1 0.6	14	"		
357	"	24	4	11.7		4	15.8	1.2 0.6	21	"		
358	"	25	15	42.4		15	52.0	6.0 3.0	43	Moderate.	Minahassa.	Celebes.
359	"	26	15	31.7		15	33.9	1.0 0.5	17	Small.		
360	March	1	0	23.2		0	35.4	1.1 0.6	30	Small.		
361	"	2	1	13.6		1	14.5	0.6 0.3	4	Very small.		
362	"	3	5	11.1		5	12.7	1.2 0.6	5	" "		
363	"	5	19	25.7		20	51.7	0.7 0.4	112	Small.		
364	"	9	20	3.2	3.4	20	7.9	1.6 0.9	20	"		
365	"	"	23	18.6		23	18.8	1.1 0.6	3	Very small.		
366	"	13	15	14.9	8.4	15	19.1	1.0 0.6	80	Small.	PadangUlak. Tanding.	Sumatra.
							30.1	1.1 0.6				
							38.9	1.0 0.6				
							48.4	1.1 0.6				
367	"	19	1	49.9		1	52.1	1.3 0.7	9	Small.		
368	"	20	2	6.7		2	34.1	0.6 0.4	45	Very small.		
369	"	23	12	0.9		12	3.0	0.7 0.4	20	Small.		
370	"	28	6	10.3		6	16.0	2.0 1.1	19	"		
371	"	"	9	29.4		9	34.0	4.0 2.2	55	Moderate.	Ternate.	Ternate.
							40.2	5.2 2.7				
							43.2	4.1 2.2				
							45.0	4.1 2.2				
372a	"	14	49.1			14	53.5	19.0 5.1		Strong.		Ternate. N. Celebes.
							59.6	30.0 17.0				
						15	3.4	15.0 8.4				
372b	"	16	42.4			16	52.4	5.8 3.3	340	Moderate.		
							56.5	5.0 2.8				
						17	31.4	2.4 1.4				
372c	"	17	17.7			17	19.4	0.9 0.5		Very small		
372d	"	17	10.7			18	2.4	1.4 0.8		Small.		
373	April	7	5	25.7		5	45.0	0.7 0.4	40	Very small.		
374	"	"	10	38.7		10	44.7	1.0 0.6	20	Small.		
375	"	8	20	28.7		20	29.9	1.3 0.6	8	"		
376	"	11	23	41.5		23	41.5	0.8 0.4	4	Very small.		
377	"	12	0	16.3		0	17.9	1.1 0.6	12	" "		
378	"	13	3	33.1		3	33.7	0.9 0.5	20	" "		

Earthquakes and Tremors—Batavia.

No.	Date.	Commencement.		Durat. prel-tremors.	Maxima		Amplitude.		Total Duration.	Remarks.	Earthquake felt at:	
		h.	m.		min.	h.	m.	mm.			mm.	min.
379	1902. April	19	2	43.7	3	42.4	4.5	2.3	160	Moderate.		
380	"	21	18	37.3	6.6	18	46.7	3.2	1.6	80	"	"
381	May	4	23	47.4		24	14.8	0.8	0.4	45	Very small.	
382	"	3	0	56.2		0	58.2	1.1	0.6	7	"	"
383	"	6	23	34.2		23	36.0	1.0	0.7	5	"	"
384	"	8	2	33.7		2	34.0	1.6	1.0	15	"	"
385	"	10	22	20.7		22	23.0	0.6	0.5	25	"	"
386	"	14	5	18.0		5	18.4	0.9	1.0	2	"	"
387	"	19	12	31.0		12	31.7	1.6	2.0	4	"	"
388	June	4	12	42.0		12	45.8	0.8	0.3	6	"	"
389	"	11	6	13.7		6	51.0	1.4	0.5	112	Moderate.	
390	"	15	12	50.7		13	8.0	0.8	0.3	30	Small.	
391	"	18	4	27.4		4	27.5	0.6	0.2	2	Very small.	
392	"	18	4	8.0		4	11.0	1.2	0.4	5	"	"
393	"	18	4	47.0		4	47.5	0.4	0.2	3	"	"
394	"	20	9	50.2		9	51.5	0.6	0.2	2	"	Tjiandjur.
395	"	25	3	56.3		4	5.4	1.0	0.3	12	"	Java.
396	"	26	21	29.2		21	30.2	0.6	0.2	3	"	"
397	"	27	8	13.7		8	14.5	1.0	0.3	4	"	Benkulen.
398	"	29	4	42.9		4	44.5	0.8	0.3	3	"	Sumatra.
399	"	"	5	22.0		5	23.0	0.5	0.2	2	"	"
400	July	6	13	15.0	9.6	13	50.8	2.0	0.8	100	Moderate.	
401	"	9	4	15.0		4	20.0	1.0	0.4	22	Small.	
402	"	11	2	37.3		2	38.0	0.7	0.3	6	Very small.	
403	"	12	7	26.0		7	26.9	0.6	0.2	3	"	"
404	"	13	2	7.0		2	8.1	0.7	0.2	2	"	"
405	"	"	17	59.7		18	0.9	0.6	0.2	2	"	Tjiandjur.
406	"	17	2	51.7		2	52.7	0.6	0.2	3	"	Java.
407	"	19	23	13.7	7.7	23	22.7	2.1	0.7	20	Small.	
408	"	22	23	35.7		23	36.7	0.6	0.2	3	Very small.	
409	August	2	14	28.6	1.6	14	41.5	2.5	1.0	65	Moderate.	
410	"	"	22	57.1		23	21.1	1.5	0.5	40	Small.	
411	"	3	17	7.2		17	8.2	1.0	0.3	25	"	
412	"	7	11	50(?)	0.4	11	51(?)	25.0	7.7	42	Strong.	S. Sumatra and W. Java.
413	"	9	14	56(?)		15	7(?)	0.8	0.2	29	Very small.	
414	"	10	12	47.7		12	59.5	0.7	0.2	20	"	"
415	"	16	6	10.2		6	11.5	0.5	0.2	3	"	"
416	"	"	7	36.5		7	37.4	0.3	0.1	2	"	"
417	"	"	8	12.7		8	39.5	2.1	0.6	70	Moderate.	
418	"	18	22	38.8		22	41.1	0.5	0.2	6	Very small.	
419	"	21	11	20.7	4.0	11	27.7	4.6	1.5	60	Moderate.	
420	"	22	3	9.9	8.0	3	14.1	1.1	0.3	220	Very strong.	
							19.7	4.4	1.4			
							23.3	6.5	2.1			
							24.7	7.0	2.2			
							31.2	14.0	4.5			
							33.5	36.0(?)	11.0(?)			
							34.7	60.0(?)	18.0(?)			
							36.7	50.0(?)	15.0(?)			

BATAVIA
SEISMOMETRIC RECORDS
1903.

Earthquakes and Tremors registered at the Batavia Observatory by means of the selfrecording
Seismograph—Milne during the year 1903.

Greenwich Mean Civil Time.

Batavia Observatory = 7^h 7^m.3 E. of Gr.

No.	Date.	Commen- cement.		Durat. prel. tremors. min.	Maxima.		Amplit.		Total Duration. min.	Remarks.	Earthquake felt at:
		h.	m.		h.	m.	mm.	"			
458	1903. January	1	6 32.7		6	33.9	6.0	2.4	15		Sumatra, Southern part.
459	"	2	12 42.4	6.5	12	54.9	2.1 0.9	30			
460	"	4	5 18.1		5	27.9	3.5 1.4	100			
						35.9	7.5 3.1				
						39.4	3.1 1.3				
						58.9	2.1 0.9				
461	"	5	22 16.9	8.7	22	26.6	2.2 0.9	30			
						28.3	1.7 0.7				
462	"	7	9 55.9		9	57.9	2.0 0.8	24			
463	"	14	3 7.4	1.7	3	38.5	2.3 0.9	160	From 11 ^h 10 ^m till 11 ^h 23 ^m slow os- cillations of small amplitude.		
					4	20.4	2.2 0.8				
						21.7	2.4 1.0				
						23.7	4.0 1.6				
						38.7	4.5 1.8				
464	"	17	23 33.2		23	42.8	0.5 0.2	12			
465	"	19	13 41.7		13	56.7	1.1 0.4	65			
					14	9.6	1.0 0.4				
466	"	24	17 22.4		17	23.2	0.6 0.2	100			
					18	29.7	0.8 0.3				
						32.7	0.8 0.3				
467	"	25	7 7.4		7	12.4	0.9 0.4	18			
468	"	25	15 17.4		15	19.0	1.0 0.4	12			
469	"	28	22 13.2		22	13.9	1.0 0.4	3			
470	February	1	9 43.4	6.6	10	3.4	13.0 5.3	100		Bima, Sumbawa Isl.	
						8.1	5.0 2.1				
						11.4	6.2 2.5				
471	"	1	12 27.4		12	32.0	1.0 0.4	14			
472	"	2	10 29.1			30.1	0.8 0.3	30			
473	"	5	18 51.5		19	14.5	1.2 0.5	92			
						42.5	1.3 0.5				
						45.8	1.2 0.5				
						48.4	1.1 0.5				
						50.6	1.1 0.5				
474	"	6	7 50.9	8.5	8	3.0	2.3 1.0	50	Slow oscillations from 15 ^h 7 ^m 0 ^s — 9 ^m 3 ^s .		
						3.9	3.0 1.3				
						5.4	3.0 1.3				
						7.2	2.9 1.2				
475	"	8	1 2.4		1	11.9	1.3 0.6	30			
476	"	10	3 1.4		3	12.5	1.3 0.6	47			
477	"	11	6 31.4		6	32.7	1.0 0.4	4			
478	"	11	16 9.1		16	14.5	8.2 3.5	90			
						18.8	9.2 4.0				
						23.8	8.2 3.5				
479	"	12	19 11.0		19	11.5	0.9 0.4	5			
480	"	12	20 12.7		20	14.7	0.7 0.3	5			
										Java. Western part.	

Earthquakes and Tremors—Batavia.

No.	Date.	Commencement.		Durat. prec. tremors. min.	Maxima		Amplitude.		Total Duration. min.	Remarks.	Earthquake felt at:
		h.	m.		h.	m.	min.	sec.			
481	1903. February 14	7	3.1		7	3.6	0.7	0.3	10	The numbers 481 and 482 are quite analogous in character as may be derived from the relative times of maxima. 481 482 min min — 4.0 — 3.9 — 3.0 — 2.9 — 0.9 — 1.0 0.7 0.7 2.4 2.4 4.5 4.7 7 ^h 9 ^m .6 14 ^h 0 ^m .6 and the proportion of their amplitudes. 1.4 1.2 1.2 1.1 1.2 0.8 <hr/> 1.15	Neira, Banda Isl.
482	14	13	51.8	4.0	13	56.7	1.0	0.4			
						6.6	0.5	0.2			
						8.7	0.5	0.2			
						10.3	0.7	0.3			
						12.0	0.4	0.2			
						14.1	0.4	0.2			
						57.7	0.6	0.3			
						59.6	0.6	0.3			
					14	1.3	0.8	0.3			
						3.0	0.5	0.2			
						5.3	0.3	0.1			
483	" 18	12	30.9		12	41.2	0.7	0.3	27		
484	" 24	17	46.1		18	3.7	1.0	0.4	53		
485	" 24	22	7.7		22	10.3	0.7	0.3	10		
486	" 27	0	44.3	0.2	?				80	Boom thrown of at 0 ^h 44.9 ^m readj. at 1 ^h 6 ^m	Heavy earthquake felt in: Southern Part. of Sumatra (Palembang, Benkulen) Western part of Java. Several shocks experienced at Batavia in the course of the day.
					1	7?	2.9?	1.2?			
						8.7	27.0	11.6			
						11.7	17.0	7.3			
						16.8	13.0	6.5			
		3	3.6		3	3.7	7.0	3.0	20		
		3	40.3		3	40.5	0.5	0.2	3		
		3	54.5		3	57.9	13.0	6.5			
						59.0	17.0	7.3			
		4	19.7		4	19.8	13.0	5.6			
		5	8.2		5	9.0	2.7	0.7	12		
						7	20.1	0.5	0.2		
							21.1	0.3	0.2		
		8	32.1		8	33.5	3.0	1.3	10		
487	" 28	1	48.5		1	49.4	1.0	0.4	6		

Earthquakes and Tremors—Batavia.

No.	Date.	Commencement.		Durat. prel. tremors.	Maxima.		Amplitude.		Total Duration.	Remarks.	Earthquake felt at:
		h.	m.		h.	m.	min.	sec.			
	1903.										
488	March	1	3	6.2		3	7.5	1.0	0.4	8	
489	"	1	10	49.4		10	51.7	0.7	0.3	20	
							59.2	2.0	0.8		
490	"	1	15	10.4		15	12.7	1.3	0.5	9	Telok-Betong, South. Part. of Sumatra.
491	"	1	16	2.7	2.6	16	6.7	4.0	1.6	16	
492	"	2	1	28.7		1	29.2	1.2	0.5	4	
493	"	2	4	47.2		4	49.8	1.0	0.4	8	
494	"	2	17	8.8		17	11.2	3.0	1.2	13	Telok Betong, South. Part of Sumatra.
495	"	2	22	14.9		22	16.4	2.0	0.8	6	
496	"	2	23	29.9		23	32.2	1.2	0.4	9	
497	"	3	1	14.7		1	16.4	0.6	0.2	3	
498	"	3	4	13.7		4	14.7	3.0	1.2	11	
499	"	5	15	35.8		15	37.7	2.0	0.8	8	
500	"	5	17	8.1		17	9.0	1.2	0.5	5	
501	"	23	3	48.2		4	6.4	1.6	0.7	37	
502	"	26	8	55.7		9	6.7	1.0	0.3	30	
503	"	30	3	26.7		3	34.7	12.7	4.3	66	
							35.8	14.1	4.8		
							37.5	12.0	4.1		
504	"	30	4	45.7		4	56.6	1.3	0.5	30	Tifu, Masarete, Isle of Buru Amboina Res.
						5	1.4	1.2	0.4		
505	April	29	?			0	29.0	2.4	1.0	?	
506	"	29	4	13.2	10.0	5	5.5	4.2	1.7	90	
507	May	12	±18	0		?		6.5	3.2	±100	Ending 1 ^h 9 ^m ; motion of paper defective.
508	"	15	14	0.1		?		1.0	0.5	50	
509	"	23	20	8.0		20	10.2	1.5	0.9	20	Djocakarta, Mid-Java.
510	"	23	22	14.7		22	20.1	7.5	4.5	55	
511	June	2	13	35.7		14	27.4	1.2	0.7	80	
512	"	7	8	49.7		8	52.5	1.1	0.4	40	
						9	2.7	1.1	0.4	60	
513	"	8	5	31.1?	10.4	5	41.9?	1.2	0.4		
							54.7?	1.1	0.4		
514	"	9	11	37.7		11	54.7	0.9	0.3	30	
515	"	9	14	31.3	0.4	14	32.4	12.0	4.1	10	
516	"	10	16	49.7		16	56.9	0.9	0.3	33	
517	"	14	9	53.5	0.6	9	54.2	5.0	1.7	10	
518	"	25	22	36.7		22	38.2	0.8	0.3	15	
519	July	3	21	33		21	57.5	1.0	0.4	40	
520	"	7	12	23	0.3	12	24.2	2.2	0.9	6	
521	"	8	2	58.0	0.6	2	59.1	1.2	0.5	7	Bantam Res. Java, West.
522	"	12	23	6.7		23	7.1	2.0	?	10	Batavia, Java, West.
523	"	27	7	10.7		7	11.7	1.0	0.4	5	
524	October	14	3	9.7		3	33.5	1.7	0.6	45	
525	"	19	3	11.3		3	12.9	7.0	2.4	30	

Earthquakes and Tremors—Batavia.

N ^o .	Date.	Commencement.		Durat. pre-tremors. min.	Maxima:		Amplitude.		Total Duration. min.	Remarks.	Earthquake felt at:
		h.	m.		h.	m.	min.	"			
326	1903. October	20	3 9.0		3	23.4	1.2 = 0.4	50			
						31.8	1.2 0.4				
327	"	22	3 7.7		3	10.0	1.4 0.5	20			
328	"	29	14 30.3		14	36.3	3.3 1.9	100			
						38.4	3.5 1.1				
329	"	30	4 13.8		4	43.9	2.5 0.9	80			
330	November	14	9 41.5		9	41.8	0.8 0.3	2			
331	"	16	7 21.7		7	24.0	2.0 0.8	12			Semarang, Mid-Java.
332	"	17	20 27.7		20	32.7	1.0 0.4	45			
333	"	24	13 42.9	3.2	13	33.3	3.3 2.2	60	Prel. tremors change character 3.8 min. after commencement.		Manado, Isle of Celebes, North.
						33.2	6.0 2.4				
334	"	26	12 7.2	11.7	12	22.7	2.8 1.1	50			
						24.1	2.5 1.0				
						26.8	2.0 0.8				
335	"	27	14 10.7		14	19.7	1.8 0.7	34			
336	December	3	21 39.7	4.2	21	43.1	3.5 2.2	28			
337	"	18	12 28.3		12	37.9	2.4 0.8	35			
				6.1		39.7	2.3 0.7				
338	"	23	1 14.7		1	26.7	2.8 0.9	70			
						34.7	4.0 1.2				
339	"	29	3 2.0		3	7.6	13.0 4.0	80			
						13.3	13.5 4.2				
340	"	31	13 23.3		13	33.0	0.6 0.2	40			

Earthquakes registered by Ehlert's Horizontal-Pendulum.

Direction of Pendulum: E-W.

Greenwich Mean Civil Time.

Batavia Observatory = 7h 7m. 3 E of Gr.

N ^o .	Date.	Commencement.		Commencement of larger oscill.		Time of maximum oscill.		Average amplitude of large oscill.	Duration in hours.	Remarks.
		h.	m.	h.	m.	h.	m.			
	1903.									
1	September	1	15	9.8				0.2	0.5	
2	"	3	6	0.4				0.2	2	
3	"	7	7	20.9			7 32	0.8	2.5	
4	"	8	5	14.7	5	21.4		0.5	2.5	
5	October	3	7	18.4				0.1	0.1	Rapid oscillations.
6	"	10	16	49.3	16	5.1		0.2	0.4	
7	"	14	3	18.3			3 23.4	1.0	?	
8	"	19	3	10.5	3	18.5	3 39.	3.0	1.0	
9	"	20	3	1.2	3	9.1	3 9.2	0.4	2	
10	"	21	10	7.3	10	15.3		0.4	2	
11	"	23	3	7.1	3	10.2		0.2	0.7	
12	"	26	15	57.7				0.1	0.05	Rapid oscillations.
13	"	26	17	1.9				0.1	0.05	" "
14	"	27	21	19.1				0.2	0.1	" "
15	"	29	14	30.4			14 56	0.5	2	
16	"	30	4	6.5			14 56	0.3	2	
17	"	30	14	56.2				0.1	1.2	
18	November	2	9	50.7				0.1	0.1	
19	"	13	20	49.4			20 54	0.3	0.2	
20	"	16	7	21.4	7	22.1	7 22.5	1.0	0.5	
21	"	17	20	31.4			7 37.6	0.2	0.5	
22	"	18	16	19.0				0.2	0.3	
23	"	21	17	6.5			17 16	0.2	0.3	
24	"	24	1	42.7			2 6	1.0	1	
25	"	26	10	58.1	11	6.7	11 25	0.4	1.5	
26	"	26	15	9.4				0.1	0.15	
27	"	26	16	16.0				0.1	0.6	
28	"	27	13	7.5	13	11.4	13 12.8	0.3	0.8	
29	December	1	7	9.3				0.1	0.3	
30	"	1	14	28.4				0.1	0.6	
31	"	3	21	30.9			21 44	1.0	1	
32	"	4	4	3.6			4 9	0.3	0.5	
33	"	5	5	23.6				0.2	1.5	
34	"	5	19	9.2				0.2	0.1	Rapid oscillations.
35	"	6	23	12.0				0.1	0.7	
36	"	7	10	36.4				0.1	0.1	
37	"	7	15	4.0				0.2	1	
38	"	10	17	12.4	17	20.3	17 20.7	0.5	1.5	
39	"	13	19	14.7				0.2	1	
40	"	16	4	56.8				0.1	0.05	Rapid oscillations.
41	"	18	12	28.0			12 35	0.5	1	
42	"	20	6	12.0				0.1	0.1	
43	"	20	6	34.5				0.1	0.1	
44	"	23	1	14.4			1 25.5	0.7	1.5	
45	"	28	3	1.5			3 6.5	3.0	2	
46	"	31	13	15.3				0.2	1	

BATAVIA
SEISMOMETRIC RECORDS
1904.

**Earthquakes and Tremors registered at the Batavia Observatory by means of the
Selfrecording Seismograph-Milne during the Year 1904.**

Greenwich Mean Civil Time.

Batavia Observatory = 7^h 7^m.3 E. of Gr.

N ^o .	Date.		Commencement.		Durat. prel. tremors.	Maxima.		Amplit. (double).		Total Duration.	Remarks.	Earthquakes felt at:
	1904.											Place Residence Island.
541	January	1	3	44.1		3	44.2	1.4 = 0.4		5		
542	"	10	3	3.3		3	16.4	1.4 0.4		50		
543	"	20	15	17.1		15	42.0	2.9 0.9		140		
							44.3	3.1 0.9				
						16	41.0	2.8 0.9				
544	"	21	17	28.2		17	29.7	1.0 0.3		8		
545	"	27	20	36.5		20	46.2	0.9 0.3		20		
546	"	29	0	10.2		0	29.7	1.3 0.4		80		
547	"	30	6	19.8		6	20.7	1.2 0.4		5		
548	February	4	21	19.2		22	32.9	0.8 0.3		100		
549	"	6	7	59.7		8	6.3	2.2 0.7		20		
550	"	22	13	38.0		14	2.7	1.0 0.3		50		
551	"	24	15	25.7		15	26.3	0.5 0.2		4		
552	March	2	21	33.7		21	51.9	1.0 0.3		50		
553	"	3	3	6.0		3	9.8	10.0 3.1		40		
554	"	4	11	6.7		11	14.7	0.6 0.2		25		
555	"	13	12	43.7		12	45.7	0.6 0.2		5		
556	"	16	7	55.7		8	10.2	0.6 0.2		30		
557	"	19	6	48.0		7	57.7	1.3 0.4		130		
557 ^{hs}	"	31	2	24.2		2	45.2	2.5 0.8		60		
558	"	31	6	3.2		6	10.2	1.4 0.4		30		
559	April	4	10	25.7	20.0	11	23.7	9.5 2.8		160		
560	"	5	10	27.4	2.3	10	33.7	12.0 3.6		70		
561	"	8	6	42.2		6	44.1	1.0 0.3		10		Kroë Benkulen Sumatra.
562	"	9	5	58.1		6	18.7	0.6 0.2		30		
563	"	10	5	48.6		6	0.2	0.6 0.2		35		Tontoli Celebes Celebes.
564	"	11	14	13.7		14	32.7	2.0 0.6		60		
565	"	12	19	11.7		19	17.9	0.6 0.2		40		
566	"	14	1	19.0		1	30.2	0.6 0.2		30		
567	"	17	8	41.7		8	52.7	0.5 0.2		20		
568	"	17	10	31.7		10	33.2	2.2 0.7		15		
569	"	21	0	51.5		0	53.7	1.1 0.3		15		
570	"	24	5	38.9		6	0.4	1.2 0.4		60		
571	"	24	23	38.5		23	39.0	0.8 0.2		15		
572	"	27	18	55.1		19	2.9	1.0 0.3		15		
573	May	1	7	3.6		7	23.7	2.0 0.6		60		
574	"	1	15	31.8	4.7	15	39.9	29.0 5.7		100		
575	"	1	23	27.4	4.2	23	33.6	2.8 0.5		40		
576	"	2	5	51.3		5	51.7	0.6 0.2		1		
577	"	2	10	54.4		11	3.2	0.7 0.2		30		
578	"	10	12	34.2		12	35.1	1.0 0.3		5		
579	"	14	12	12.2		12	16.5	0.9 0.3		25		
580	"	14	14	17.7		14	19.2	0.5 0.2		10		
581	"	16	5	17.6		5	18.7	0.8 0.2		20		
582	"	19	0	10.4		?		?		?		
583	"	19	6	48.5		6	50.7	0.5 0.2		4		
584	"	19	15	58.3		16	7.6	2.2 0.6		30		
							9.8	2.0 0.6				

Earthquakes and Tremors registered by Milne's Seismograph.

No.	Date.	Commencement.		Durat. prel. tremors.	Maxima.		Amplitude (double).		Total Duration.	Remarks.	Earthquake felt at:
		h.	m.		h.	m.	mm.	"			
	1904.										
585	May	20	10 31.9		10 33.2	0.7 = 0.2		7			
586	"	26	21 33.6		21 34.8	0.8 0.3		7			
587	"	28	23 43.9		23 54.7	1.0 0.3		30			
588	June	1	9 7.6		9 8.7	0.8 0.3		6			
589	"	7	5 41.3		5 47.9	1.2 0.4		35			
590	"	7	8 33.6		8 37.7	1.2 0.4		30			
591	"	15	16 27.4		16 31.0	2.1 0.8		?			Mokko-mokko, Benkulen, Sumatra.
592	"	18	7 6.7		7 15.7	1.0 0.4		20			
593	"	22	11 16.1		11 18.6	0.7 0.3		20			
594	"	24	1 23.2	23.2	1 57.7	1.0 0.4		60			
595	"	25	14 57.2	10.0	15 35.3	7.0 0.3		160			
596	"	25	21 12.7	9.0	21 42.7	5.2 1.9		180			
597	"	26	19 57.7		20 9.4	0.9 0.3		30			
598	"	27	0 21.2		1 16.2	3.0 1.1		190			
599	July	1	4 0.4		4 1.1	0.8 0.3		7			
600	"	4	4 38.9		4 46.7	3.0 1.1		20			
601	"	20	2 18.4		2 19.6	1.3 0.5		7			
602	"	22	0 32.6		0 33.4	0.7 0.3		6			Pekalongan, Pekalongan, Java.
603	"	23	0 39.3		0 44.7	9.3 3.7		80			Rantjah, Cheribon, Java.
604	"	24	11 5.4	24.2	11 34.7	1.0 0.4		60			
605	"	26	0 3.2		0 4.4	0.5 0.2		2			
606	"	27	15 8.5		15 10.9	0.6 0.2		30			
607	"	27	15 57.2	8.1	16 15.4	2.0 0.8		60			
608	"	31	12 33.5		12 38.7	0.2		11			Minahassa, Menado, Celebes.
609	August	4	19 8.8		19 9.3	0.8 0.3		2			
610	"	18	4 40.5	3.7	4 50.7	12.0 4.1		80			Bima, Celebes, Sumbawa.
611	"	21	2 32.9		2 35.5	3.0 1.0		20			
612	"	24	21 8.1		21 16.1	4.5 1.5		165			
613	"	27	22 22.7	31.3?	22 57.2	6.0 2.2		150?			
					23 6.2	5.0 1.9					
614	"	30	11 56.7	7.0	12 4.7	8.2 2.9		90			
					12 12.7	5.1 1.8					
615	September	8	2 37.0		2 48.9	7.4 2.6		?			3 rd 5 th Pendulum in disorder by local disturbance.
616	"	11	5 59.1		6 7.0	11.5 3.9		60			Minahassa, Menado, Celebes.
616bis	"	12	5 48.7		5 50.0	1.0 0.4		4			Preanger, Java.
617	"	12	18 33.7		18 35.2	0.6 0.2		3			
618	"	13	17 51.2		18 5.2	0.9 0.3		30			
619	"	18	16 38.0		16 39.5	0.6 0.2		3			Malabar, Preanger, Java.
620	"	19	5 14.6		6 2.8	0.8 0.3		70			
621	"	20	13 48.4		13 48.7	1.3 0.4		10			
622	"	24	16 58.5		17 2.7	0.8 0.3		20			
623	"	25	15 20.4		15 46.1	1.0 0.3		70			
624	October	1	10 19.5		10 27.7	1.6 0.6		40			
625	"	3	3 5.1	16.5	3 34.2	5.0 1.6		120			
626	"	3	22 23.7		22 28.0	0.9 0.3		20			
627	"	4	3 31.5		3 31.9	0.6 0.2		10			

Earthquakes and Tremors registered by Milne's Seismograph.

No.	Date.	Commen- cement.		Durat. prel. tremors. min.	Maxima.		Amplitude (double).		Total Duration. min.	Remarks.	Earthquake felt at:
		h.	m.		h.	m.	mm.	in.			
628	October	4	19 30.3		19	34.4	0.9	0.3	50		East-Java.
629	"	6	4 3.2		4	6.2	1.0	0.3	15		
630	"	9	14 39.7		13	4.5	0.6	0.2	40		
631	"	12	23 11.9	8.6	23	20.9	3.0	1.0	20		
632	"	21	9 42.3		9	43.7	1.2	0.4	3		
633	"	23	6 37.6		6	45.7	0.8	0.3	30		Rangkas Betung, Bantam, Java.
634	"	25	9 6.9		9	8.5	0.7	0.2	10		
645	"	28	13 52.5		13	55.7	18.0	6.3	80		East-Java.
636	November	3	3 39.6		3	46.7	0.8	0.3	20		
637	"	5	20 42.9		20	48.7	0.8	0.3	25		
638	"	6	3 29.3		3	42.2	0.8	0.3	50		
639	"	6	9 39.9		9	44.5	1.0	0.3	20		Minabassa, Menado, Celebes.
640	"	11	11 7.7		11	14.3	0.8	0.3	35		Malabar, Preanger, Java.
641	"	21	3 22.7		3	28.0	1.3	0.5	90		
642	"	22	1 19.7		1	39.5	1.7	0.6	50		
643	"	30	10 10.7		18	12.0	1.0	0.4	4		
644	December	2	1 35.7		1	49.5	2.2	0.7	200		
					2	59.0	0.5	0.2			
					3	57.7	0.7	0.2			
					4	9.7	0.8	0.3			
645	"	10	1 31.2		1	33.5	1.0	0.3	15		
646	"	17	13 4.2		13	8.6	1.1	0.4	10		
647	"	19	18 10.0		18	39.7	2.0	0.7	70		
648	"	20	6 6.0		6	41.2	1.6	0.6	150		
					7	38.2	1.6	0.6			
649	"	23	15 27.5		15	39.5	0.9	0.3	40		

Earthquakes registered by Ehlert's Horizontal Pendulum.

Direction of Pendulum: E-W.

Greenwich Mean Civil Time.

Batavia Observatory = 7^h 7^m 32 E of Gr.

No.	Date.	Commence-ment.		Commence-ment of larger oscill.		Time of maximum oscill.		Average ampl. of max. oscill. (double).	Duration in hours.	Remarks.	Earthquake felt at:		
		h.	m.	h.	m.	h.	m.	mm.					
47	1904 January	1	5 20.97	5	24.57	5	28.7	3	0.5	Rapid oscillations.			
48	"	3	3 54.3					3	0.2				
49	"	3	22 7.5	22	11.9	22	14.3	2	0.4				
50	"	4	22 49.0			22	56.8	2	0.7				
51	"	7	14 53.2			15	23.9	3	1.6				
52	"	8	21 5.5					2	0.4				
53	"	10	2 58.0	3	3.8	3	8.1	5	2.0				
54	"	18	1 20.0	1	21.3	1	21.8	10	0.4				
55	"	20	15 12.2			15	27.9	9	1.7				
56	"	21	17 26.2			17	31.6	3	0.5				
57	"	27	9 52.17	10	0.07	10	0.4	4	0.3				
58	"	27	20 33.1			20	43.0	2	1.0				
59	"	29	0 16.3?			0	34.9	5	1.5				
60	"	30	6 20.30			6	22.4	2	0.1			Rapid oscillations.	
61	February	3	10 24.5			10	28.1	1	0.1			Rapid oscillations.	Singaradja, Bali, Bali.
62	"	4	21 8.2			21	12.9	3	1.0				
63	"	6	7 59.6			8	2.4	5	1.3				
64	"	6	9 53.23			9	58.6	3	0.4				
65	"	16	8 58.02	8	58.31	8	58.5	2	0.1				
66	"	22	13 29.2			13	39.4	2	0.5				
67	"	23	11 12.8			11	15.7	3	0.2				
68	"	24	15 22.9			15	28.1	2	0.2				
69	"	25	17 24.9			17	27.9	2	0.2				
70	"	26	15 17.8			15	19.7	2	0.2				
71	"	29	3 8.86			3	10.0	3	0.2				
72	March	2	21 13.4			21	26.3	3	0.4	Rapid oscillations.	Djembrana, Bali, Bali.		
73	"	3	3 6.36			3	8.2	60	1.8				
74	"	4	9 34.4			10	8.1	2	0.8				
75	"	5	19 54.7			20	3.9	2	0.8				
76	"	13	12 42.3			12	46.2	3	0.4				
77	"	16	7 50.1	7	58.9	7	59.0	7	0.8				
78	"	18	13 53.6	14	1.7	14	4.0	5	0.5				
79	"	19	6 48.14			6	52.2	5	1.0				
80	"	20	4 6.1			4	11.5	2	0.5				
81	"	21	6 35.9			6	39.5	2	0.2			Bandar, Palembang, Su- matra.	
82	"	22	23 16.3			23	17.4	2	0.1			Rapid oscillations.	
83	"	26	15 14.8			15	24.2	3	0.4				
84	"	28	18 16.2			18	20.4	2	0.3				
85	"	29	9 46.3			9	52.2	5	0.6				
86	"	30	18 10.95			18	12.8	2	.1				
87	"	31	2 24.6			2	45.4	5	0.7				
88	April	4	10 15.67			10	51.3	5	3.0				
89	"	5	10 22.23			10	34.5	40	2.0				
90	"	8	6 42.17			6	43.3	7	0.3				
91	"	10	5 52.24			5	55.5	3	0.4				
92	"	11	14 5.3			14	14.9	3	1.3				
93	"	12	19 1.29			19	13.4	3	0.7				

Earthquakes registered by Ehlert's Horizontal Pendulum.

No.	Date.	Commence- ment.		Commence- ment of larger oscill.		Time of maximum oscill.		Average amplit. of max. oscill. (double).	Duration in hours.	Remarks.	Earthquake felt at:
		h.	m.	h.	m.	h.	m.				
	1904.										
94	April	14	4	13.68	1	19.3	1	20.0	4	0.3	
95	"	14	11	40.74			11	12.1	2	0.2	Manondjaja, Preanger, Java.
96	"	17	8	28.72			8	29.1	4	0.2	
97	"	17	10	31.88			10	32.1	10	0.3	
98	"	20	8	48.8			8	53.4	3	0.3	
99	"	21	1	51.42	1	51.72	1	53.1	13	0.3	
100	"	24	6	48 ?				?	3	0.5 ?	
101	"	24	23	56 ?			23	53.1	3	0.3 ?	
102	"	26	18	50.6			18	59.0	2	0.4	
103	May	1	6	48.29			6	58.1	2	0.7	
104	"	1	13	33.66			13	43.0	30	2.0	
105	"	1	23	26.7			23	32.0	10	1.0	
106	"	2	3	50.78			3	51.8	4	0.2	
107	"	2	10	48.47			11	5.7	2	0.7	
108	"	9	6	52.08			6	52.13	6	0.2	
109	"	10	12	33.46			12	34.8	10	0.3	
110	"	14	12	6.2			12	21.0	3	1.0	
111	"	14	14	8.6			14	20.2	2	0.3	
112	"	15	17	30.14			17	30.4	2	0.1	
113	"	16	3	17.55			3	19.1	7	0.3	
114	"	16	15	46.93			15	47.7	3	0.1	Rapid oscillations.
115	"	19	0	23.5			0	37.9	1	0.4	Malabar, Preanger, Java.
116	"	19	6	48.22			6	49.6	7	0.2	
117	"	19	15	58.1			16	5.0	5	0.5	
118	"	20	10	31.6			10	33.4	7	0.3	
119	"	23	0	0.2			0	2.5	4	0.3	Benkulen, Benkulen, Su- matra.
120	"	25	13	3.0			13	5.0	4	0.3	
121	"	26	7	43.75			7	49.0	3	0.3	
122	"	26	21	34.36			21	35.9	8	0.5	
123	"	31	16	23.1			16	24.8	3	0.1	Malabar, Preanger, Java.
124	June	1	9	7.66			9	9.4	20	0.3	
125	"	7	5	34.7			5	41.3	10	0.5	
126	"	7	8	27.0			8	34.3	50	1.0	
127	"	15	16	25.3			16	29.6	10	?	Mokko-mokko, Benkulen. Sumatra.
128	"	18	7	2.3				?	1	0.4	
129	"	22	11	8.1			11	15.0	4	0.3	
130	"	25	15	26.8			15	9.1	15	1.3	
131	"	25	21	12.36			22	12.3	17	1.4	
132	"	26	2	42.8			2	44.5	5	0.1	Malabar, Preanger, Java.
133	"	26		?			11	5.1	4	?	
134	"	26	19	43.4			20	0.2	4	0.3	
135	"	27	0	21.4			0	36.5	10	0.8	
136	July	1	3	56.27			3	56.8	8	0.1	
137	"	4	4	36.8	3	56.56	4	40.2	7	1.0	
138	"	7	0	11.4			0	13.3	3	0.2	Benkulen, Benkulen, Su- matra.
139	"	7	22	32.81			22	34.3	7	0.1	
140	"	19	9	40.51			9	41.6	2	0.1	
141	"	19	23	54.7			23	56.4	3	0.1	

Earthquakes registered by Ehlert's Horizontal Pendulum.

N ^o .	Date.	Commence- ment.		Commence- ment of larger oscill.		Time of maximum oscill.		Average amplit. of max. oscill. (double).	Duration in hours.	Remarks.	Earthquake felt at:	
	1904.	h.	m.	h.	m.	h.	m.	mm.				
142	July	20	2	18.93		2	20.8	33	0.3			
143	"	22	0	32.50	0	28.8	0	34.0	8	0.3	Pekalongan, Pekalongan, Java.	
144	"	23	0	39.2		0	41.3	35	1.0		Rantjah, Cheribon, Java.	
145	"	24	10	56.5		11	6.5	8	0.6			
146	"	26	0	28.8		0	4.4	5	0.1			
147	"	27	16	7.6		16	23.1	8	0.4			
148	"	27	15	56.1		16	4.8	10	0.6			
149	"	30	1	52.0		1	53.0	3	0.1			
150	"	31	12	29.5		12	35.2	3	0.3		Minahassa, Menado, Ce- lebes.	
151	August	4	19	8.92		19	9.1	6	0.2	Rapid oscillations.		
152	"	8	23	1.87		23	11.13	9	0.8			
153	"	15	21	36.63	21	37.93	21	38.2	2	0.1	Rapid oscillations.	
154	"	18	4	44.54		4	47.6	30	1.0		Bima, Celebes, Sumbawa.	
155	"	20	13	45.56		13	47.6	2	0.2			
156	"	20	17	56.7		17	57.0	2	0.1			
157	"	21	2	33.01		2	34.8	40	0.3			
158	"	24	19	28.73		19	29.9	2	0.1			
159	"	24	21	7.12		21	14.6	25	1.4			
160	"	27	22	9.1		22	25.5	6	1.5			
161	"	30	11	50.6		12	10.4	30	1.3			
162	September	8	2	37.20		2	44.6	25	1.0		Minahassa, Menado, Ce- lebes.	
163	"	11	5	59.0?		6	10.0	30	1.2			
164	"	12	5	48.32		5	49.4	15	0.2	Rapid oscillations.		
165	"	12	18	30.1		18	34.2	3	0.3		Preanger, Java.	
166	"	13	17	22.4		17	32.5	3	1.0			
167	"	16	1	48.19		1	52.8	2	0.3			
168	"	17	5	24.6		5	26.5	2	0.2			
169	"	17	19	48.6?		20	6.3	3	0.6			
170	"	18	16	36.49		16	39.4	3	0.4		Malabar, Preanger, Java.	
171	"	19	0	2.9		0	13.1	2	0.5			
172	"	19	5	4.7		5	22.3	3	1.2			
173	"	19	18	56.3		19	8.0	2	0.5			
174	"	21	14	12.7		14	13.5	3	0.2			
175	"	22	13	48.10		13	49.8	25	0.3		Malabar, Preanger, Java.	
176	"	24	16	56.8		16	59.8	6	0.5			
177	"	25	15	18.24		15	28.2	4	1.4			
178	October	1	10	18.25		10	23.5	28	0.7			
179	"	3	3	14.2		3	22.3	18	2.0			
180	"	5	19	26.2		19	30.9	3	1.0			
181	"	6	4	2.8		4	6.4	4	0.4		East-Java.	
182	"	8	16	31.7		16	30.9	2	0.3			
183	"	8	18	41.88		18	50.3	8	1.0			
184	"	9	14	16.9		14	21.7	2	0.9			
185	"	13	0	20.06		0	21.3	10	0.2	Rapid oscillations.		
186	"	23	6	42.45		6	46.1	8	0.4		Rangkas Betung, Bantam, Java.	
187	"	25	9	7.35		9	8.6	13	0.2			

Earthquakes registered by Ehlert's Horizontal Pendulum.

No.	Date.	Commence- ment.		Commence- ment of larger oscill.		Time of maximum oscill.		Average amplit. of max. oscill. (double).	Duration in hours.	Remarks.	Earthquake felt at:
		h.	m.	h.	m.	h.	m.				
188	1904. October	28	13 52.65			13	55.0	400	2.0		East-Java.
189	"	30	13 57.9			14	3.0	2	0.3		
190	"	31	20 50.67			20	55.0	3	0.3		
191	November	1	13 52.3			13	58.2	3	0.5		Minahassa, Menado, Ce- lebes. Malabar, Preanger, Java. Mokko-mokko, Benkulen, Sumatra.
192	"	3	3 31.6			3	37.1	2	0.5		
193	"	5	20 32.7			?	?	2	0.4		
194	"	6	4 28.2	4	29.5	4	29.9	5	0.8		
195	"	6	9 39.9			9	43.9	7	0.4		
196	"	11	11 6.4			11	11.2	8	0.8		
197	"	11	14 32.7			14	34.3	2	0.1		
198	"	14	3 44.3			3	45.4	1	0.1		
199	"	21	3 18.7			3	28.6	5	0.7		
200	"	22	1 17.0			1	24.2	2	0.6		
201	December	2	1 35.4			1	41.3	7	0.5		
202	"	2	2 41.0			2	45.6	3	0.3		
203	"	4	7 45.67	7	49.50	7	49.8	10	0.3		
204	"	9	23 16.9	23	51.0	23	51.3	4	0.3		
205	"	11	8 57.1					1	0.3		
206	"	14	3 39.72			3	54.5	8	0.2		
207	"	17	13 3.4			13	4.1	5	0.2		
208	"	19	18 14.5			18	12.8	5	0.7		
209	"	19	21 24.29			21	24.4	5	0.1	Rapid oscillations.	
210	"	20	6 4.7			6	11.7	11	0.9		
211	"	21	16 19.8			16	22.0	2	0.2		
212	"	23	15 25.6			15	33.9	4	0.3		
213	"	24	22 34.7			22	52.4	3	0.3		
214	"	27	23 0.4			23	1.8	5	0.3		