

Seismological Bulletin 1937

Royal Magnetical and Meteorological Observatory

Batavia, Java.October - December 1937.

Remarks. The same remarks as in the previous Bulletin concerning time service at Malabar are still valid. Reports of Soengei Langka have not been inserted in this Bulletin.

No.	Date	Station	Character	Phase	G.M.C.T.	Distance	Remarks
<u>October.</u>							
					h m s	km	
413	Oct. 1	Bat			19 35.3		traces.
414	" 2	Amb	Iv	iE	08 42 49		
415	" 2	Amb	Iv	iSNE	08 44 19		
416	" 2	Amb	Iv	PNE iSNE	09 49 12 09 49 15	20	
417	" 2	Mal	v			80	iS - P = 9 sec.
418	" 4	Med	IIr	PNE iSNE	04 04 17 04 06 15	1040	
		Bat	Ir	ePNE SN SE iE	04 05.3 04 09 02 04 09 05 04 10 30	2220	in minute eclipse.
419	" 4	Bat	Ir	ePNE	12 18 25		
		Med	Ir	PN iSNE	12 19 51 12 23 42	2310	
420	" 4	Bat	I	ePNE	14 16 04		
421	" 4	Amb	Iv				no minute eclipses, felt at Wahai, Ceram
422	" 5	Med	Iv				no minute eclipses, felt at Koetetjané, N. Sumatra
423	" 5	Mal	v			550?	S? - eP = 60 sec.
		Bat	Iv	PNE SNE iNE	14 05 02 14 06.3 14 08 58	700	Felt in E. Java, Bali and Lombok. in minute eclipse
424	" 5	Med	Iv				no minute eclipses.

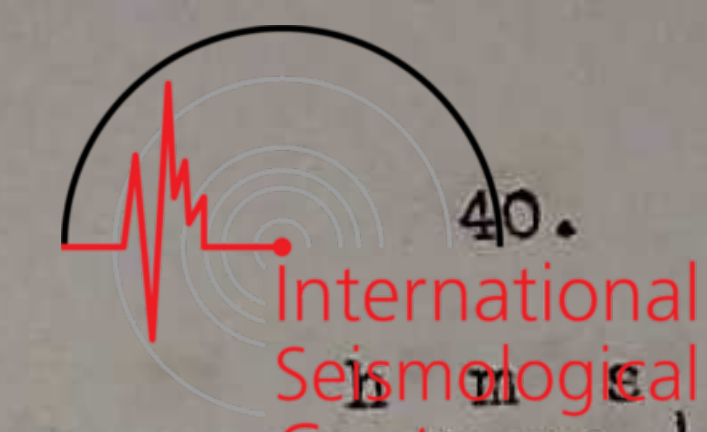
No.	Date	Loc.	Stn.	35.			km	Description
				h	m	s		
425	Oct. 5	Mal	v				90	iS - P = 11 sec., felt in Priangan W.Java.
		Bat	Iv	iPZN	23 13 49		160?	
				iS?E	23 14 08			
				iN	23 14 30			
426	" 6	Bat	Iv	PZ	10 07 01			faint in minute eclipse.
		Med	Iv	ePE	10 07.2			
				iE	10 08 15			
427	" 6	Amb	Ir	PE	17 10 15	2970		in minute eclipse.
				PN	17 10.3			
				SNE	17 14 56			
		Bat	Iu	PZ	17 13 15	5180		in minute eclipse.
				PE	17 13.3			
				SN	17 20 10			
				eLZNE	17 27			
		Med	Iu	ePNE	17 14 29			
				iE	17 22 15			
428	" 7	Bat	Iv	PZ	08 11 00			faint.
429	" 8	Mal	v	i				
		Bat	Iv	ePZ	18 00 16	350		uncertain
				iSZNE	18 00 56			
430	" 8	Amb	Iv					no minute eclipses.
431	" 10	Amb	Iv					no minute eclipses.
432	" 10	Med	Iv	ePNE	03 12.6	260		in minute eclipse.
				iSNE	03 13 06			
433	" 11	Med		L?	09 36			
434	" 12	Amb	I	PNE	02 41.1			in minute eclipse.
435	" 12	Med	Iv	ePNE	05 20 56	111?		
				iS?E	05 21 09			
436	" 12	Amb	Iv	iN	16 29 03			
437	" 12	Amb	I	eP?E	21 10 08			
		Bat	I	PZ	21 10 29			
				iPZ	21 10 33			
				ePNE	21 10 34			
				iZ	21 11 03			
				iNE	21 11 25			
438	" 12	Amb	Iv	PE	21 51.2	650		in minute eclipse, felt in N. N.Guinee.
				SNE	21 52 22			
439	" 15	Med	Iv	ePE	09 36 10	320		felt at Kampong Air, N.Sumatra
				iSNE	09 36 46			
440	" 15	Mal	d			150		iS - iP = 17 sec., felt in Priangan, W.Java
		Bat	IIv	iPZNE	21 27 06	210		
				iN	21 27 22			
				iS?NE	21 27 30			

No.	Date	Loc.	Stn.	36.			km	Description
				h	m	s		
441	Oct. 16	Bat	Iv	PNE	01 31 33			Uncertain. traces.
		Mal	v					
442	" 16	Mal	d				80	iS - P = 10 sec., felt in Priangan W.Java.
		Bat	Iv	PNE	12 06 26		111	
				iSNE	12 06 39			
				iN	12 07 31			
				iE	12 07 38			
443	" 16	Bat	Iv	iPNE	18 17 48			
		Mal	v	i				
444	" 17	Amb	Ir	PNE	04 52 44			
				iE	04 53 58			
				iNE	04 58.8			
		Med	Iu	ePE	04 56 10	5320		
				SE	05 03 13			
				eLE	05 10			
		Bat	Iu	PNE	04 56 16	5500		faint.
				SNE	05 03 39			
445	" 19	Amb	Iv				690	S - P = 1 ^m 14 ^s ; no minute eclipses.
446	" 20	Mal	v				140	S - eP = 16 sec.
		Bat	Iv	iPZ	03 09 38			
				PNE	03 09 41			
447	" 20	Bat	I	ePNE	11 57 47			faint.
		Med	I	eE	12 02 46			
				iE	12 04 27			
448	" 22	Bat	IIv	iPZE	05 11 46	500?		dilatation, felt in Palembang and Benkoelen S.Sumatra.
				iS?NE	05 12 41			
				iE	05 13 13			
		Mal	v	i				
		Med	Iv	ePNE	05 13 18			
				iNE	05 14 38			
				iE	05 15 27			
449	" 22	Med	IIIv	PN	16 15 08	330		felt in Tapanoeli and Sum. West Coast.
				iPNE	16 15 10			
				SNE	16 15 46			
		Bat	Ir	ePE	16 17 44			uncertain.
450	" 22	Mal	d				130	iS - P = 15 sec., felt in Priangan W.Java. in previous.
		Bat	Iv	iPZ	16 33 45			
				PN	16 33 48			
451	" 23	Amb	IIv			450 ⁺		S - P = 46 sec., no minute eclipses, felt in N.Celebes (Kopandakan).
		Bat	Ir	ePZ	14 45 07			
				ePE	14 46 01			
				iN	14 54 13			
452	" 26	Mal	d				50	S - P = 6 sec., felt in Priangan (W.Java).
		Bat	Iv	PZNE	01 10 51			
				iNE	01 11 07			
				iZE	01 11 38			

					h m s	km	
453	Oct.27	Amb Bat	Iv Ir	1PZ ePE iSN S?E	18 56 47 18 56 49 19 00 45 19 00 51	2400	no minute eclipses.
454	" 28	Bat	I	1PNE iN iE	04 36 05 04 37 35 04 38 06		
455	" 28	Amb	Ir	PNE S?NE	09 39 54 09 44.2	2650?	in minute eclipses.
456	" 28	Amb	Iv	ePN	15 13 43		time correction unexact, felt in Sangir and Talaud Islands.
457	" 29	Bat			07 42.4		traces.
458	" 29	Amb	IIv	PNE SNE	09 15 02 09 15 31	250	felt at Wahai (Ceram).
459	" 30	Med	Iv	ePE iE	01 09 58 01 11 11		faint.
November.							
460	Nov. 3	Med	Iv	ePE	06 50 11		faint.
461	" 3	Mal Bat	v Iv	ePE ePZ S?E	07 40 55 07 40 58 07 41 36	360?	traces.
462	" 4	Mal	v	P			
463	" 4	Mal	v			110	iS - eP = 13 sec.
464	" 5	Amb Bat Med	Iv Ir Ir	PNE iSNE PZE iS?N PE	09 29 34 09 30 19 09 34 12 09 38 28 09 34.7	400 2630?	felt in W. N.Guinee and Pandjang Island.
465	" 5	Amb	IIv	PN PE iSNE	10 45 47 10 45 49 10 45 58	90	in hour mark.
466	" 6	Amb	Iv	ePNE iNE	05 16 05 05 16 07		
467	" 7	Mal Bat	v Iv	P ePNE iN	17 41 36 17 42 19		felt at Tandjong Keling (S.Sum.).
468	" 9	Amb	Iv	PNE iSE	13 51 04 13 51 20	140	

					h m s	km	
469	Nov.10	Mal	v			80	iS - P = 10 sec.
470	" 11	Mal	v	i			
471	" 11	Amb	Iv				no minute eclipses.
472	" 11	Med	Iv	P iS?NE	16 51 00		too faint.
473	" 13	Med Bat	Iu	eP?NE eINE	10 06.5 10 39 10 15		extremely faint, in minute eclipse. traces.
474	" 13	Amb	Iv				no minute eclipses.
475	" 13	Med	Iv	ePN	22 52 47		faint.
476	" 14	Amb	Iv				no minute eclipses.
477	" 14	Med Bat	IIIr IIu	PNE iSNE PNE iE iN iS?E L?E	11 05 41 11 11 36 11 07 17 11 10 55 11 11 14 11 14 35 11 20	4100 5590	
		Amb	Iu	PE iSE	11 08 39 11 17.2	6920	
478	" 14	Mal	v	i			
479	" 15	Med	Ir	PN? ePE iN iE iE iN L?E ePN iN	21 44.4 21 45 04 21 50 09 21 50 16 21 50 54 21 51 14 21 54 21 44 46 21 53 16		faint, perhaps earlier.
480	" 17	Mal	d			80	iS - P = 9 sec., felt at Soekanegara (W.Java).
481	" 17	Bat	Iv	iPZ ePNE iE iS?NE	01 41 58 01 42 01 01 42 58 01 43 49	980?	faint in micros.
482	" 17	Bat	Iv	PNE	15 48 00		
483	" 17	Bat	Iv	PNE	13 57 29		
484	" 17	Bat	Iv	PNE	14 14 20		
485	" 18	Amb Bat	Ir I	PE Pz iE eL?E ePNE eSE iN	02 55 38 02 55 40 02 57 16 03 13 02 56 53 03 03 55 03 04 36	2040 5300	S - iP = 3 ^m 30 ^s ., no minute eclipses.

					h m s	km	
486	Nov.19	Amb	Iv	PNE iSNE	11 20 04 11 20 19	130	
487	" 19	Mal Bat	v Iv	PZNE	19 58.4	310	iS - P = 35 sec. faint in minute eclipse, felt in Central Java.
488	" 20	Med	Iv	PNE	17 20.3		in minute eclipse, felt at Fort de Kock, Sum. W. Coast.
489	" 20	Mal	v	iS			P too faint.
491	" 21	Bat	Iv	ePE	02 49 27		faint.
492	" 22	Bat			19 07.4		traces.
493	" 24	Bat	Ir	PNE iN iSE	15 58 54 16 00 29 16 00 51	1111	
494	" 24	Amb	Iv	PNE	18 58 11		
495	" 25	Bat	IIIv	iPZNE iSNE iN	00 52 02 00 52 36 00 52 40	300	compression from SW.
		Mal Med	v Ir	iS eE iN	00 55 44 01 03 06		
496	" 25	Amb	Iv	iPNE iSNE	01 17 12 01 17.4	100	in minute eclipse.
497	" 26	Amb	Iv	ePNE	03 42.5		in minute eclipse.
498	" 26	Med	IIv	PNE iSN	10 10.3 10 10 39	180	in minute eclipse.
499	" 26	Med Bat	Ir Ir	PNE P7	10 51 30 10 51 52		
500	" 27	Bat	Iv	PE iS?E	03 54 37 03 56 05	770?	
501	" 27	Bat	Iv	ePE	14 24 36		in micros., felt at Kroë (S.Sum).
502	" 28	Med Bat	IIIv IIIr	iPNE iS?E PZ ePNE iE iS?N iZN iE iNE	05 25 12 05 26 09 05 26 29 05 26 31 05 26 35 05 28 36 05 30 43 05 30 45 05 31 14	520? 1220?	pens off. in micros.
503	" 28	Bat	Iv	PNE iZ iSZN	07 56 01 07 56 03 07 56 17	140	felt at Tjiastana, Priangan.
		Mal	v			150	iS - P = 17 sec.
504	" 28	Bat	I	ePZNE	10 17.4		faint.



					h m s	km	
505	Nov.28	Bat	Iv	P7 iS?NE iZ P	21 19 36 21 30 52 21 51 36	650?	felt in Palembang and Benkoelen (S.Sumatra).
		Mal	v				
506	" 30	Med	IIIv	PNE iNE iSE iPZNE iSZE iSN eLZ iN	00 42 26 00 43 40 00 43 51 00 44 57 00 48 33 00 48 36 00 52 00 56.4	780? 2120	compression from NW. in minute eclipse.
		Bat	IIr				
507	" 30	Med	Iv	ePE	04 24 02		
508	" 30	Bat	Iu	PE iSNE LNE PE LNE	13 08 09 13 18 27 13 32 13 08 11 13 26	9110	
		Med	Iu				
<u>December.</u>							
509	Dec. 2	Mal	v			120	iS - eP = 14 sec.
510	" 5	Bat		L?Z L?E	16 01 16 02		
511	" 6	Med	Iu	eP?E iSE eLNE PZ iSNE	04 43 10 04 50 38 05 03 04 43 32 04 51 06	5750 5850	
		Bat	Iu				
512	" 8	Mal	v	i	08 18 35		
513	" 8	Amb Med	Ir IIr	i iPNE iSNE L?E LNE iPZE iN S?E LZ eLNE	08 37 55 08 38.3 08 43 10 08 44 08 53 08 08 38 41 08 39 40 08 43 54 08 48 08 51	3120 3430	in minute eclipse.
514	" 8	Amb	Iv	P iS	13 57.0 13 57 17	150	faint in minute eclipse.
515	" 8	Med	Ir	eE eE	20 44 57 20 49 10		faint
516	" 9	Med	IIv	iPNE iSNE	08 20 36 08 20 52	140	felt in Tapanoeli, N.Sumatra.

					h m s	km	
517	Dec.10	Med	I	eE	13 45.3		in minute eclipse.
		Bat	I	eLE	13 59		
				iNE	13 45 43		
518	" 10	Med	Iv	PN	14 14 55		
				iE	14 15 03		
519	" 10	Med	IIv	iPNE	19 32 55	390	felt in Sum. W. Coast and
				iSNE	19 33 39		Tapanoeli (N.Sumatra)
		Bat	Ir	eNE	19 36 59		
				eNE	19 37 49		
				iE	19 38 05		
520	" 12	Med	IIv	ePE	21 37 09	680?	felt at Sigli and on Breuëh
				iS?N	21 38 22		Island.
521	" 13	Amb	Ir	PNE	18 59.6		in minute mark.
		Med	Ir	ePE	13 00 02	3090	
				iN	19 00 12		
				iSE	19 04 51		
				iE	19 15 35		
		Bat	Ir	iPZNE	19 00.4		dilatation from NE , in minute
				iN	19 01 45		eclipse.
				i7	19 02 00		
				eL?E	19 08		
				LZ	19 10		
				LN	19 11		
522	" 14	Mal	v	i	02 04 56		
523	" 15	Med	Iv	ePNE	21 30 19	200	
				SNE	21 30 42		
524	" 16	Amb	Iv	iPNE	08 30 20	800	felt in North and Central Celeb
		Mal	r	iSNE	08 31 46		traces.
		Bat	IIr	iPNE	08 32 09	1720	
				iPZ	08 32 10		
				iSN	08 35 20		
		Med	IIr	iPNE	08 33 26	2500	
				iSNE	08 37 32		
525	" 16	Amb	Iv	iPNE	18 33.9	390	in minute eclipse.
		Med	Ir	iSNE	18 34 38		
		Bat	Ir	eE	18 35 54		
					18 36.4		traces.
526	" 17	Mal	v	P	04 27 02		
		Bat	IIIv	i	04 27 29	610	dilatation
				iPZ	04 27 09		
				iPNE	04 27 11		
				iNE	04 27 55		
				iN	04 27 58		
				iSNE	04 28 19		
		Med	I	ePNE	04 29		too faint.
				iN	04 35 26		
				iE	04 35 34		
				iN	04 38 23		

					h m s	km	
527	Dec.17	Med	Ir	iPNE	09 36 22	3100	in minute eclipse.
		Bat	Ir	iSE	09 43.2		
				iPZNE	09 38 46		
				iE	09 44 32		
				eLNE	09 54		
528	" 18	Med	I	ePE	13 26 21		uncertain.
		Bat	I	eLNE	13 46		too faint.
				P			
				eE	13 34 39		
				eLE	13 52		
				eLZN	13 54		
529	" 20	Bat	I	eP?E	03 44.4		in minute eclipse.
				iE	03 46 14		
530	" 20	Amb	Ir	iPNE	22 40 17		
		Bat	Ir	iNE	22 45 48	3790	
				iPZ	22 41 54		
				iSNE	22 47 30		
531	" 21	Med	Iv	iPNE	12 47 31		felt at Sibolga (Tapanoeli).
				iE	12 47 49		
				iN	12 47 54		
				iE	12 48 33		
532	" 21	Bat	Iv	PNE	15 57 03		felt in Palembang and Benkoelen
				eE	15 57.4		(S.Sumatra).
				iN	15 57 29		in minute eclipse.
533	" 22	Bat	Iv	iPZ	03 57 01		
				iN	03 58 02		in minute mark, felt at Tjias-
534	" 22	Bat	Iv	PNE	12 38.4		tana (W.Java).
535	" 23	Bat	Iu	iPZ	13 37 54		dilatation.
				eLNE	14 10		
				LE	14 35		strong.
				LN	14 43		strong.
		Med	Iu	ePNE	13 38 00		
				eLNE	14 32		
				iLNE	14 42		
536	" 24	Bat	Iu	iPZ	06 40 47		
537	" 25	Amb	Iv			610*	felt at Serwaroe and on Leti
		Bat	Ir	PZ	01 14 30		Island; S - P = 71 sec., no
				iN	01 15 07		minute eclipses.
				iN	01 18 32		
				iE	01 18 48		
				iN	01 18 55		
				eL?Z	01 22		
		Med	Ir	eNE	01 16.2		faint in minute eclipse.
539	" 25	Med	I	eE	10 25 20		

					h m s	km	
540	Dec.26	Med	Iv	ePN iS?N	11 05 33 11 06 28	500?	in micros.
541	" 26	Med	Iv	ePNE iE iS?N	21 01 26 21 02 01 21 02.2	410?	felt at Hinako, Nias Island. in minute eclipse.
542	" 27	Bat	Iv	ePNE	01 50 17		
543	" 28	Amb	Iv	iPNE iS?N iN PZ ePNE iN eNE	03 10 36 03 11 34 03 12 35 03 13 47 03 13 48 03 17 18 03 17 53	530?	felt on Timor Island.
		Bat	IIr				
544	" 28	Bat	Iu	iE	06 42 37		
545	" 28	Bat	Iv	PE iE iE iS?N iNE e iS	11 18 12 11 18 57 11 19 18 11 19 22 11 20 30 11 18.5 11 19 07	600?	felt in Benkoelen (S.Sumatra)
		Mal	v				
546	" 28	Amb	Iv	PNE iSNE	13 26 23 13 26 29		
547	" 28	Mal	v	eP iS	20 12 34 20 12 45	90	time-correction uncertain.
548	" 29	Med	IIv	iPNE S	18 33 52		
		Bat	Ir	eP?N iNE iE	18 35 04 18 38 09 18 38 42		in hour mark. faint.
550	" 30	Amb	Iv	ePNE iSNE	05 05 41 05 05 48	60	
551	" 30	Amb	Iv	PNE	07 35.3		in minute eclipse.

CONSTANTS WIECHERT SEISMOGRAPHS.

BATAVIA.

1937	EW Component			NS Component			Z Component		
	V	T ₀	ξ	V	T ₀	ξ	V	T ₀	ξ
October	220	7.2	3.5	190	7.2	3.4	300	4.6	3.4
November	220	7.4	3.5	190	7.4	3.4	300	4.5	3.6
December	220	7.4	3.5	190	7.3	3.4	300	4.5	3.5



	e ₀	r	e ₀	r	e ₀	r
October	1.08	0.7	1.09	1.0	1.15	0.5
November	1.09	0.7	1.08	0.6	1.13	0.4
December	1.10	0.6	1.09	0.6	1.14	0.4

MEDAN.

EW Component					NS Component				
V	T ₀	ξ	e ₀	r	V	T ₀	ξ	e ₀	r
230	5.1	3.7	1.07	0.7	235	4.5	2.2	1.09	0.9

666666666666

				h m s	km	
490	Nov.20	Mal	v		90	iS - P = 11 sec
549	Dec.29	Med	Iv	PNE S?NE	20 24.2 20 24 48	320? in minute eclipse.