

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 1  
Jan. 1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	ξ	V
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S m s	REMARKS
Jan. 9	ePn	15	24	55.2			1 02.8	
	S	15	25	53.0				
	F	15	29	00.0				
16	Pn	02	16	24.8			3 19.9	
	eS	02	19	42.7				
	F	02	58	00.0				
22	ePn	13	36	08.8			4 06.6	
	Se	13	40	15.4				
	eL	13	43	20.8				
	F	14	24	00.0				
25	P	03	51	46.8				
	F	05	50	00.0				
25	P	17	23	04.6				
	F	17	39	00.0				
26	e	10	35	00.0				
	F	10	50	00.0				
27	P	17	29	29.2				
	eL	17	33	28.2				
	F	17	50	00.0				
30	pPz	02	23	53.7	+4.1	4.4	4 38.6	
	pPe	02	23	54.3	-7.2	4.3		
	pPn	02	23	54.3	+5.2	4.3		
	Pz	02	23	58.8	-15.1	4.9		
	Pe	02	23	59.4	+39.1	6.4		
	Pn	02	23	59.4	-26.0	6.4		
	iSe	02	28	32.9	-115.9	6.3		
	iSn	02	28	32.9	-143.0	7.4		
	iSz	02	28	34.8				
	sMe	02	28	50.5	-198.0	5.4		
	sMn	02	28	53.2	-271.0	6.0		
	Lz	02	32	11.8				
	Mz	02	33	02.8	+380.0	19.0		
	Me	02	33	07.7	+1919.0	11.5		
	Mn	02	33	09.8	-91.0	8.1		
	C	02	45	00.0				
	F	04	35	00.0				
30	P	05	29	14.1			4 30.1	

PRELIMINARY REPORT OF SEISMIC OBSERVATION

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

No. 2  
Jan.-Feb.  
1939

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

DATE	PHASE	G. h	M. m	T. s	COMP. T r/T <sup>2</sup> ξ V			P-S m s	REMARKS
					E	N	Z		
					4.5	0.002	8.0	76	
					4.6	0.003	6.3	78	
					2.0	0.007	4.9	73	
DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s			REMARKS
Jan. 30.	P	23	54	28.2				4	16.1
	Se	23	58	44.3					
	Sn	23	58	44.7					
	F	24	54	00.0					
Feb. 1	P	01	43	19.9					
	F	02	23	00.0					
2	P	07	10	55.1					
	F	07	42	00.0					
3	P	05	32	38.0					
	eL	05	40	38.0					
	Me	05	42	04.0	+812.0	19.1			
	In	05	42	04.0	+213.0	15.3			
	Mz	05	42	05.9	-109.0	21.3			
	F	06	51	00.0					
3	eP	20	04	17.0				0	01.9
	iS	20	04	18.9					
	F	20	04	38.0					
4	eP	05	28	00.0					
	F	05	47	00.0					
4	P	11	35	53.4				1	18.0
	iS	11	37	11.4					
	F	11	58	00.0					
16	eP	06	51	00.0					
	F	06	55	00.0					
17	eP	18	57	37.0				4	40.1
	Sa	19	02	17.1					
	Sn	19	02	17.8					
	F	19	23	00.0					
19	e	02	05	00.0					
	F	03	08	00.0					
19	e	03	36	00.0					
	F	04	24	00.0					
20	e	02	11	00.0					
	F	03	21	00.0					

*a. mail*

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 3  
Feb.-Mar.  
1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	ξ	V
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G h	M m	T s	AMPL.	PERI. s	P-S m s	REMARKS
Feb. 23	e	10	10	00.0				
	F	10	34	00.0				
24	e	08	19	00.0				
	F	08	36	00.0				
25	e	04	20	00.0				
	F	04	44	00.0				
26	e	10	25	00.0				
	F	11	00	00.0				
27	e	01	53	00.0				
	F	04	44	00.0				
27	Pn	09	44	49.8			0 03.0	
	Pe	09	44	50.0				
	Sen	09	44	52.8				
	F	09	47	00.0				
28	P	02	40	37.1				
	F	03	28	00.0				
28	e	03	51	00.0				
	F	04	13	00.0				
Mar. 1	e	00	33	00.0				
	F	01	00	00.0				
2	Pn	07	03	48.8			1 41.5	
	Pe	07	03	49.6				
	Sn	07	06	30.3				
	Se	07	06	31.5				
	F	07	49	00.0				
4	em	20	06	00.8			1 19.1	
	ePe	20	06	02.2				
	Sn <sub>2</sub>	20	07	19.9				
	Se	20	07	20.3				
	F	20	48	00.0				
5	Pe	02	17	11.1				
	Pn	02	17	12.2				

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 4  
Mar. 1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	f	V
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S		REMARKS
							m	s	
Mar. 7	Pe	01	58	20.5			3	40.8	
	Pn	01	58	23.7					
	Se	02	02	01.3					
	F	03	05	00.0					
7	eP	17	23	00.0					
	F	17	44	00.0					
8	Pe	22	03	45.6			4	34.2	
	Sn	22	08	19.1					
	Se	22	08	19.8					
	F	22	50	00.0					
18	Pn	05	21	08.8			0	04.2	
	Pe	05	21	09.8					
	Se	05	21	13.0					
	Sn	05	21	13.2					
	F	05	21	40.0					
18	Pe	16	32	46.9					
	Pn	16	32	49.0					
	F	16	36	00.0					
20	Pe	03	27	50.1			4	23.7	
	iPn	03	27	50.2					
	Se	03	32	11.8					
	Sn	03	32	13.9					
	F	04	18	00.0					
21	ePen	01	19	42.0			5	18.7	
	Sen	01	25	00.7					
	F	02	13	00.0					
22	iPen	03	49	45.1			3	25.1	
	Sen	03	53	10.2					
	F	04	35	00.0					
29	Pn	00	21	21.0			3	10.0	
	Pe	00	21	23.8					
	iSe	00	24	30.5					
	iSn	00	24	31.0					
	F	00	36	00.0					
29	Pn	02	32	29.6			8	28.0	
	Pe	02	32	30.2					

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 5  
Mar.-Apr.  
1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	f	v
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S		REMARKS
							m	s	
Mar. 30	P	00	01	50.3					
	F	00	04	00.0					
Apr. 3	e	21	37	00.0					
	F	22	15	00.0					
4	P	16	48	04.5			1	40.1	
	iSen	16	49	44.6					
	F	17	03	00.0					
5	Pen	16	50	46.4			6	03.8	
	Sen	16	56	50.2					
	F	17	48	00.0					
8	e	23	35	00.0					
	F	24	30	00.0					
10	e	06	29	00.0					
	F	06	54	00.0					
10	Pen	20	08	00.0			0	27.4	
	Sen	20	08	27.4					
	F	20	13	00.0					
18	Pen	06	42	28.3					
	F	08	43	00.0					
21	iPn	04	36	00.0	-11.5	1.7	5	30.6	
	iPz	04	36	00.2	+13.7	2.0			
	iFe	04	36	00.8	+1.3	1.7			
	iSn	04	41	30.6	-3.8	2.6			
	iSe	04	41	31.9	-5.3	3.0			
	F	04	58	00.0					
24	Pe	11	26	30.7			1	43.5	
	Pn	11	26	31.4					
	Sn	11	28	12.6					
	Se	11	28	14.2					
	F	11	43	00.0					

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 6  
Apr. - May  
1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP	T	r/T <sup>2</sup>	ε	V
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S m s	REMARKS	
Apr. 30	Pz	03	01	31.9			5 10.3		
	Pen	03	01	33.1					
	iSe	03	06	43.4					
	iSn	03	06	48.1					
	M <sub>1z</sub>	03	11	21.7	+6360	20.1			
	M <sub>1n</sub>	03	11	27.2	+3305	17.2			
	M <sub>1e</sub>	03	11	27.4	-8550	17.2			
	M <sub>2n</sub>	03	11	43.3	+4000	13.5			
	M <sub>2z</sub>	03	11	43.8	+5710	18.4			
	M <sub>2e</sub>	03	11	44.5	-8580	22.3			
	F	05	37	00.0					
May	1	ePn?	06	05	02.3			7 08.9	
		ePe?	06	05	03.8				
		Sn	06	12	11.2				
		Se	06	12	12.1				
		F	06	56	00.0				
	1	e	16	17	00.0				
		F	16	33	00.0				
	3	ePn	16	19	08.8				
		ePe	16	19	10.9				
		F	16	33	00.0				
	6	Pn	17	03	31.6				
		Pe	17	03	33.7				
		F	17	55	00.0				
	7	Pe	00	33	36.6			1 08.4	
		Pn	00	33	37.2				
		Sn	00	34	43.9				
		Se	00	34	45.0				
F		00	57	00.0					
16	Pn	07	24	51.5			3 45.9		
	Pe	07	24	51.6					
	Sn	07	28	37.4					
	Se	07	28	39.6					
	F	08	00	00.0					
17	Pe	12	14	25.3			3 42.5		
	Pn	12	14	25.5					
	eS	12	18	03.9					
	F	12	00	00.0					

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 7

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

May - June  
1939

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	$r/T^2$	$\xi$	V
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S m s	REMARKS
May. 17	Pn	15	34	43.1			3 30.9	
	Pe	15	34	45.1				
	Sen	15	38	14.0				
	F	16	50	00.0				
22	ePe	01	37	45.3				
	ePn	01	37	47.3				
	Pz	01	37	47.8				
	F	02	16	00.0				
25	e	06	22	00.0				
	F	07	00	00.0				
26	Pe	17	53	22.3			1 52.5	
	Pn	17	53	21.9				
	Pz	17	53	18.5				
	eSne	17	55	14.8				
	F	18	31	00.0				
June 2 (1)	Pe	03	35	17.1			1 25.2	felt slightly at Palau
	Pn	03	35	17.6				
	Pz	03	35	17.2				
	Se	03	36	42.3				
	Sn	03	36	41.4				
	Sz	03	36	40.9				
	Me	03	37	12.9	-77	2.1		
	Mn	03	37	03.9	-63	--		
	Mz	03	37	11.4	-44	--		
	F	04	50	00.0				
4	ePnez	00	28	29.5			3 39.?	
	Sne?	00	32	08.5				
	F	00	50	00.0				
4	P?	15	19	36.0				
	F	15	41	00.0				
8	Pne	20	56	27.6				
	Pz	20	56	27.8				
	F	21	19	00.0				
9	?	19	11	45.2				
	F	19	38	00.0				
12	P	20	43	33.0			1 51.?	

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 8  
June-July  
1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	V
E	4.5	0.002	8.0 76
N	4.6	0.003	6.3 78
Z	2.0	0.007	4.9 73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S m s	REMARKS
June 16	Pe	09	54	22.4			0 06.2	
	Pn	09	54	22.5				
	Sen	09	54	28.6				
	F	09	55	20.0				
22	P	19	12	46.3			1 22.0	
	S	19	14	08.3				
	F	19	30	00.0				
26	e	07	26	00.0				
	F	07	46	00.0				
27 (2)	P	23	05	22.7			1 20.8	felt slightly at Palau
	S	23	06	43.5				
	Mn	23	10	28.3	+160	6.4		
	Me	23	10	29.3	+182	9.0		
	F	24	20	00.0				
July 4 (3)	Pz	19	17	31.7			0 03.3	felt slightly at Palau
	Sz	19	17	35.0				
	Me	19	17	35.8	-3000	---		
	Mn	19	17	35.8	+11750	---		
	Mz	19	17	35.8	+640	---		
	F	19	23	00.0				
10	eP	17	22	51.9			0 02.5	
	iSe	17	22	54.4	±17	---		
	iSn.	17	22	54.4	±13	---		
	F	17	23	30.0				
12	Pen	23	01	10.1			2 44.3	
	Sen	23	03	54.4				
	Len	23	05	04.2				
	F	23	55	00.0				
20	eP	02	30	40.3				
	F	02	51	00.0				
21	P	02	16	55.9				
	F	02	25	00.0				
22	P	05	52	18.2			0 12.8	
	S	05	52	31.0				
	F	05	54	00.0				



PRELIMINARY REPORT OF SEISMIC OBSERVATION

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

No. 9  
Aug.-Sept.  
1939

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	Σ V	
E	4.5	0.002	8.0	76
N	4.6	0.003	6.3	78
Z	2.0	0.007	4.9	73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S m s	REMARKS
Aug. 4	e	04	09	00.0				
	F	04	21	00.0				
5	P	00	14	35.5				
	F	00	39	00.0				
12	Penz	02	11	52.0			8 56.4	
	Se	02	20	48.4				
	iSn	02	20	51.2				
	F	02	35	00.0				
13	e	15	45	00.0				
	F	15	55	00.0				
16	e	07	01	00.0				
	F	07	10	00.0				
17	e	00	51	00.0				
	F	01	04	00.0				
18	eP	22	23	50.0			6 25.0	
	S?	22	30	15.0				
	F	23	00	00.0				
21	eL	09	10	00.0				
	F	09	21	00.0				
30	i	19	14	18.6				
	F	19	15	00.0				
Sept. 2	eP	05	09	00.0				
	F	05	32	00.0				
3	Pe	07	47	20.5				
	F	08	06	00.0				
7	eP	13	43	00.0				
	F	14	15	00.0				
8	Pn	12	14	21.5			7 32.7	
	Sn	12	21	54.2				
	L	12	27	31.8				
	F	13	35	00.0				



Sept., Oct., Nov., Dec 1939.

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 10  
Sept., - Oct.  
1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP.	T	r/T <sup>2</sup>	V
E	4.5	.002	8.0 76
N	4.6	.003	6.3 78
Z	2.0	.007	4.9 73

DATE	PHASE	G. h	M. m	T. s	AMPL.	PERI. s	P-S m s	REMARKS
Sept. 16	Pen	7	18	15.0			2. 33.1	
	Sn	7	20	48.1				
	F	7	50	-				
18	Pen	1	12	04.2				
	F	1	19	-				
30	Pen	3	54	36.4			0. 24.2	
	Sen	3	55	00.6				
	F	3	58	-				
30	Pen	16	24	49.0			0. 22.6	
	Sen	16	26	11.6				
	F	16	49	-				
Oct. 2	e	9	24	-				
	F	9	35	-				
2	e	23	56	-				
3	F	00	14	-				
3	Pen	23	59	26.5			0. 27.0	
	Sn	23	59	53.5				
	Se	23	59	54.1				
4	F	00	01	-				
7	F <sub>n</sub>	20	46	37.2			3. 05.9	
	P <sub>e</sub>	20	46	39.6				
	S <sub>e</sub>	20	49	41.8				
	S <sub>n</sub>	20	49	43.1				
	F	21	16	-				
10	eP	18	38	10.0			5. 54.3	
	eS	18	44	04.3				
	F	19	29	-				
17	iP <sub>n</sub>	6	29	32.2	+ 1.5		5. 54.7	
	iP <sub>e</sub>	6	29	32.3	+ 1.3			
	pP <sub>n</sub>	6	31	54.4	- 2.6			
	pP <sub>e</sub>	6	31	55.9	- 3.3			
	iS <sub>n</sub>	6	35	26.9	+ 11.5			
	iS <sub>e</sub>	6	35	27.7	- 9.2			
	F	7	34	-				
24	P <sub>n</sub>	9	03	53.9			1. 11.3	
	P <sub>e</sub>	9	03	55.3				
	S <sub>n</sub>	9	05	05.2				

30 21 53

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No.

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

II  
Oct., Nov.  
& Dec.  
1939

WIECHERT SEISMOGRAPH H. 200kg Z. 80kg

DATE	PHASE	G. h	M. m	T. s	COMP. T r/T <sup>2</sup>		E	V	P-S m s	REMARKS
					AMPL.	PERI.				
					E					
					N					
					Z					
					4.5	0.002	8.0	76		
					4.8	0.003	6.3	78		
					2.0	0.007	4.9	73		
Oct. 25	P	I6	22	21.5					-	
	F	I6	24	-						
29	Pn	0	23	22.9					-	
	Pe	0	23	24.3						
	F	I	31	-						
30	P	I3	22	06.7					-	
	F	I3	36	-						
Nov. 2	Pn	I3	37	44.1					0.	10.3
	Pe	I3	37	45.4						
13-37-30 0.7	iSn	I3	37	54.4						
	iSe	I3	37	54.6						
	F	I3	46	-						
2	Pe	I4	44	53.4					0.	5.2
	Pn	I4	44	54.0						
14-43-20 6.0	S	I4	45	58.6						
	F	I4	46	-						
4	P	5	11	41.6					0.	22.2
	S	5	12	03.8						
5-11-12 1.7	F	5	15	-						
9	Pz	I6	08	50.8					-	
	F	I6	14	-						
10	Pn	20	25	49.7					4.	08 5
	Pe	20	25	50.1						
20-20-34 24.0	Sn	20	29	58.2						
	Se	20	29	58.9						
	F	20	55	-						
13	Pn	5	27	47.9					0.	6.9
	Pe	5	27	48.1						
5-27-38 0.6	Sn	5	27	54.8						
	Se	5	27	55.6						
	F	5	28	30.-						
Dec. 17	Pn	7	52	49.3					4.	0.7
	Sen	7	56	50.0						
7-47-41, 23.2	F	8	13	-						
17	Pn	11	49	43.8					-	
	F	11	52	-						

PRELIMINARY REPORT OF SEISMIC OBSERVATION

No. 12  
Dec. 1939

PALAU OBSERVATORY  
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H 200kg Z 80kg

COMP.	T	r/T <sup>2</sup>	V
E	4.5	.002	8.0 76
N	4.6	.003	6.3 78
Z	2.0	.007	4.9 73

DATE	PHASE	G. h	M. m	T. s	AMPL. u	PERI. s	P-S m s	REMARKS
Dec. 18	P	10	25	18.4			3. 23.8	
<i>10-20-51</i>	S	10	28	42.2				
<i>19.2</i>	F	10	50	-				
✓ 21	Pz	21	03	51.3			2. 32.2	
	Pe	21	03	53.3	-9.2	3.8		
	Pn	21	03	53.7	-5.1	4.3		
	pMe	21	04	27.8	-432	4.7		
	pMn	21	04	29.0	-280	4.7		Felt
	pMz	21	04	29.4	-324	2.6		Slightly
<i>21-00-26</i>	iSz	21	06	23.5	+13	1.8		
<i>1.2</i>	iSe	21	06	31.5	+177	3.4		
	iSn	21	06	31.8	+171	3.6		
	sMz	21	06	33.1	-86	2.0		
	sMn	21	06	45.6	+351	3.8		
	sMe	21	06	47.6	-179	6.2		
	F	23	10	-				
22	P	17	45	38.6			0. 8.5	
<i>17-45-27</i>	S	17	45	47.1				
<i>0.6</i>	F	17	46	40.0				
23	P	3	00	50.8			0. 18.3	
<i>3-00-27</i>	S	3	01	09.1				
<i>1.3</i>	F	3	03	-				
25	eP	16	29	-			-	
	F	17	09	-				
27	P	0	10	34.5			10. 6.3	
<i>27-58-10</i>	Sn	0	20	40.8				
<i>82.8</i>	Se	0	20	42.9				
	F	1	57	-				
27	P	3	05	11.5			2. 15.0	
<i>3-02-11</i>	Se	3	07	26.5				
<i>12.5</i>	Sn	3	07	45.5				
	F	3	54	-				
29	P	19	56	04.6			0. 25.6	
<i>19-55-31</i>	Se	19	56	30.2				
<i>2.0</i>	Sn	19	56	31.0				
	F	20	02	-				