

PRELIMINARY REPORT OF SEISMIC OBSERVATION

PLA

PALAU OBSERVATORY
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H.200kg Z.80kg

COMP.	T	r/T ²	ε	V
E	4.3	0.01	6.0	70
N	4.3	0.02	2.8	72
Z	1.9	0.10	5.1	70

φ = 7° 20' N
λ = 134° 29' E
h = 32 m

DATE	PHASE	G. h	M. m	T. s	AMP. μ	PERI. s	P-S m s	REMARKS
1937 JAN. 4	Pnez	22	50	09			2 20	
	Sne	22	52	29				
	Le	22	53	42				
	F	23	25					
4	Pne	23	57	03			I 30	
	Pz	23	57	00				
	eSe	23	58	33				
	Me	0	01	29	103	5.9		
	Mn	0	00	53	143	6.4		
	Mz	0	00	51	-39	6.2		
	F	0	37					
5	Pnez	4	48	39			I 39	
	Sne	4	50	18				
	Le	4	50	53				
	Mn Ln	4	51	14				
	Me	4	52	54	63	6.4		
	Mn	4	52	27	-68	6.2		
	F	6	01					
5	eLe	6	50	52				
	eLn	6	50	40				
	F	7	21					
5	Pne	12	36	05				
	F	12	57					
5	Pne	21	43	16			4 08	
	Sn	21	47	24				
	eLn	21	51					
	F	21	41					
7 7	Pnez	13	28	50			6 26	35.5° n 97.5° e by USCGS
	Se	13	35	16				
	Sn	13	35	18				
	Sz	13	35	27				
	Le	13	38	39				
	Lz	13	42	30				
	Me	13	41	58	1304	22.2		
	Mn	13	44	05	-833	21.3		
	Mz	13	45	21	-830	22.0		
	F	105	01					
12	Pez	13	30	05			32	
	Snez	13	30	37				
	F	13	45					

PRELIMINARY REPORT OF SEISMIC OBSERVATION

NO.2



PALAU OBSERVATORY
WEST CAROLINE ISLANDS

Jan.-Feb. 1937

WIECHERT SEISMOGRAPH H.200kg Z800kg

COMP.	T	r/T ²	V
E	4.3	0.01	6.0 70
N	4.3	0.02	2.8 72
Z	1.9	0.10	5.1 700

DATE	PHASE	G. h	M. m	T. s	AMP.	PERI. s	P-S m s	REMARKS
JAN. 12	Pnez	23	56	08.4			6.3	felt at Palau slightly
	Snez	23	56	14.7		about		
	Mne	23	56	18	20	0.3		
	Mz	23	56	18	8	?		
	F	23	57	15				
15	Pne	5	13	25			I 35	
	Pz	5	13	19				
	Sne	5	15	00				
	F	5	29					
18 7	S							
	Pne?	20	22	52				
	Sz?	20	22	54				
22	F	20	23	30				
	Pe	4	30	40			2 54	
	Sne	4	33	34				
23	F	5	10					
	Pne	11	00	53				
25	F	11	51					
	Pnez	6	40	40				5°S 165°E according to Chiufeng
	Me	6	53	08	233	19.		
	Mn	7	00	52	444	10		
	Mz	6	52	52	-625	19		
F	8	11						
26	Pne	7	20	39				felt in Guam
	F	7	41					
29	Pnez	17	29	36				
	F	17	41					
30	Pnez	6	27	17			2 50	felt in Guam
	Sne	6	30	07				
	F	7	05					
FEB. 1	Pne	9	18	30				
	F	9	34					
7	Sne	11	39	21				
	F	11	45					
11	ePne	14	13	36			I 20	
	eSne	14	14	56				
	F	14	22					

PRELIMINARY REPORT OF SEISMIC OBSERVATION

NO 3

PALAU OBSERVATORY
WEST CAROLINE ISLANDS

Feb-Mar. 1937

WIECHERT SEISMOGRAPH H.200kg Z.80kg

COMP.	T	r/T ²	V
E	4.3	0.01	6.0 70
N	4.3	0.02	2.8 72
Z	1.9	0.10	5.1 70

DATE	PHASE	G h	M m	T s	AMP.	PERI. s	P-S m s	REMARKS
FEB. 12	ePnez F	4 5	57 22	49				
I4	Pne Sne F	I4 I4 I4	I9 21 27	56 I9			I 23	
I7	ePn Sne F	3 3 3	47 47 49	I3 38			25	
21	ePn eSne eLe Me F	7 7 7 7 8	I0 I6 I9 I9 42	I9 20 I5 33	750	25.	6 01	
21	Sne F	I7 I7	I8 I8	20 29				
25	Pne F	I7 I7	I5 I6	I9 30				
25	Pne F	I7 I7	I6 I8	32 30				
MAR. 1	ePne eSne F	II II II	I0 II I3	56 25			31	
I6	Pnz Sn F	I5 I5 I6	49 53 20	47 01			3 I4	
I6	Pnz Sn F	22 22 22	33 34 49	25 59			I 34	
21	Pn Sn F	I8 I8 I8	II I4 24	22 45			3 23	
26	ePn eSn Z F	I5 I5 I6	46 47 01	54 54			I 00	

PRELIMINARY REPORT OF SEISMIC OBSERVATION

NO 4

PALAU OBSERVATORY
WEST CAROLINE ISLANDS

April-May 1937

WIECHERT SEISMOGRAPH H.200kg Z.80kg

COMP.	T	r/T ²	V
E	4.3	0.01	6.0 70
N	4.3	0.02	2.8 72
Z	1.9	0.10	5.1 70

DATE	PHASE	G. h	M. m	T. s	AMP%. s	PERI. s	P - S m s	REMARKS
April 3	eLne F	13 4	04 15	07				
5	Pn Se eLn Me Mn Mz F	6 7 7 7 7 7 8	58 00 00 02 01 01 51	29 00 56 06 27 29	5750 4730 -1500	6.6 6.4 7.4	I 31	
5	Pne eSe eSn eLe eLn F	23 23 23 23 23 0	41 43 44 44 44 23	13 52 00 45 49			2 39	
11	Pne Snez F	22 22 22	03 04 04	59 01 18			2	
16	Pnez iPne ?ne Se Sn F	3 3 3 3 3 5	10 10 12 17 17 33	36 44 06 56 57			7 20	
24	Pn Sne F	16 16 16	17 17 18	42 51 40			9	
24	Pn Sn F	20 20 20	37 37 38	35 44 20			9	
26	Pnez Snez F	I I I	33 33 36	01 11			10	felt slightly at Palau
28	Lne F	I4 I4	04 18	55				

PRELIMINARY REPORT OF SEISMIC OBSERVATION

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PALAU OBSERVATORY
WEST CAROLINE ISLANDS

May_ June

WIECHERT SEISMOGRAPH H.200kg Z.80kg

COMP	T	r/T ²	v	V
E	4.3	0.01	6.0	70
N	4.3	0.01	2.8	72
Z	1.9	0.10	5.1	70

DATE	PHASE	G. h	M. m	T. s	AMP.	PERI. s	P-S m s	REMARKS
May 25	Pnez	16	23	05.2			3.5	Felt at Palau slightly
	Snez		23	08.7				
	F		24					
25	ePne	18	52	20			9	
	eSne	18	52	29				
	F	18	54					
28	eL?	3	32					
28	Pn	19	59	53			2 59.	
	Sne	20	02	52				
	F	20	16					
30	ePnez	15	37	08			4 21	
	eSne	15	41	29				
	F	15	52					
June 8	Ln	3	47	24				
	F	4	32					
21	eL	2	30	48				
	F	2	44					
21	ePn	14	00	38				
	Ln?	14	03	04				
	F	14	39					
21	Pne	15	32	43				
	Pz	15	32	41				
	eLn	16	23	12				
	eLe	16	22	03				
	eLz	16	29	03				
	Me	16	31	13	68	19		
	Mn	16	30	20	26	18		
	F	17	04					
22	ePe	12	39	15			26.	
	Sn	12	39	41				
	Sz	12	39	43				
	F	12	44					
24	Pe	14	17	28.9			6.9	
	Pnz	14	17	28.3				
	Se	14	17	35.8				

PALAU OBSERVATORY
WEST CAROLINE ISLANDS

June--July



WIECHERT SEISMOGRAPH H.200kg Z.80kg

comp.	t	x/t ²	v	V
E	4.3	0.01	6.9	70
N	4.3	0.01	2.8	72
Z	1.9	0.10	5.1	70

DATE	PHASE	G. H	M. m	T. s	AMP.	PERI. s	P-S m s	REMARKS
June 28	ePne F	5 5	03 23	41				
30	Pne Sn Se Le Ln F	14 14 14 14 14 14	00 01 01 04 03 35	23 38 37 17 25			1 15	
July 1	ePe ePn ePz eSe? eSn? F	11 11 11 11 11 12	57 57 57 03 03 15	09 11 06 L7 03			5 52	Obscured by microseis -ms
2	ePez? ePn? F	2 2 3	44 44 12	37 39				Obscured by microseisms
3	ePe? F	15 15	33 39	51				Obscured by microseisms
4	ePe? eLne?	6 6	03 18	45 29				F in next earthquake
4	ePne? eLne?	6 7	47 02	17 08				F in next earthquake
4	ePne? eLne? Mn F	7 7 7 8	34 38 52 57	31 30 24	33	9.7		
9	ePn? F	6 6	11 23	24				
9	ePn? F	7 8	17 29	21				
10	ePn F	20 21	43 14	13				
13	ePez ePn eSn? F	2 2 2 3	58 58 59 10	19 11 50			1 39?	
22	Pe Pn	7 7	36 36	14.3 15.2			1 29.7	



PALAU OBSERVATORY
WEST CAROLINE ISLANDS

July-Aug

WIECHERT SEISMOGRAPH H.200kg Z.80kg

COMP	T	r/T ²	v	V
E	4.3	0.01	6.0	70
N	4.3	0.01	2.8	72
Z	1.9	0.10	5.1	70

DATE	PHASE	G. h	M. m	T. s	AMP.	PERI. s	P-S		REMARKS
							m	s	
July 25	ePne?	22	48	14					
	F	22	50						
29	Pe	3	30	27.1			6.0		Felt at palau moderately
	Pnz	3	36	25.9					
	Se	3	36	33.1					
	Sn	3	36	32.9					
	Sz	3	36	32.7					
	Me	3	36	33.1	-69				
	Mn	3	36	32.9	-114				
	Mz	3	36	32.7	-13				
29	Sne	3	37	01.9					
	Me	3	37	01.9					
	Mn	3	37	03.8					
29	Pe?	3	41	06.9					
	Pn?	3	41	08.1					
29	ePe?	3	44	13					
29	eSe	3	45	40					
29	ePe	3	50	47					
29	Se	3	57	41.6					
	F	5	56						
Aug. 2	ePne?	2	48	12			31.4?		
	Se	2	48	44.2					
	Sn	2	48	43.4					
	F	2	50						
2	ePne	10	48	44					
3	ePne	23	10	32					
5	ePe	14	48	22			3	55	
	eSe?	14	53	17					
	eLe	14	52	53					
	F	15	19						
8	ePe?	10	15	50					Obscured by microseisms Felt at Pagan
	eSn?	10	18	53					
	F	10	44						
8	ePe?	15	23	07			1	24	
		15	04	37					

PRELIMINARY REPORT OF SEISMIC OBSERVATION

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PALAU OBSERVATORY
WEST CAROLINE ISLANDS

August 1937

WIECHERT SEISMOGRAPH H.200kg Z.80kg

COMP% T r/t² v V
E 4.3 0.01 6.0 70
N 4.3 0.01 2.8 72
Z 1.9 0.10 5.1 70

DATE	PHASE	G. h	M. m	T. s	AMP.	PERI. s	P-S m s	REMARKS
Aug. 9	eSn	12	39	39				F in next
9	eSn	13	18	07				F in next
9	ePn	14	44	11				
	eLn	14	51	46				
	eLe?	15	18	25				
11	ePne	1	00	20				Times uncertain
	eSne	1	03	45				
	Le	1	04	55				
	Ln	1	05	00				
	Me	1	04		37		4.	
	Mn	1	05		-27		4.	
	F	1	55					
15	ePne?	3	32	19				
	F	3	42					
18	eLo	5	01	35				
	F	5	14					
								3 19.4
20	Pe	12	02	47.0				
	Pn	12	02	38.8				
	Se	12	06	02.7				
	Sn	12	05	57.2				
	Ss	12	06	22.5				
	Mne	12	06	30.9				
	Mz	12	06	59.3	500		8.4	
	F	14	40					
25	Se	7	51	40.3				4.1
	Pn	7	51	36.1				
	Sn	7	51	40.2				
	F	7	53					
25	Pe?	21	54	55.4				
25	Pe	21	56	19.1				8.
	Sne	21	56	25.7				
	F	22	01					
26	Pn?	19	00	27.1				
	F	19	16					
28	Pne	16	40	22				25.



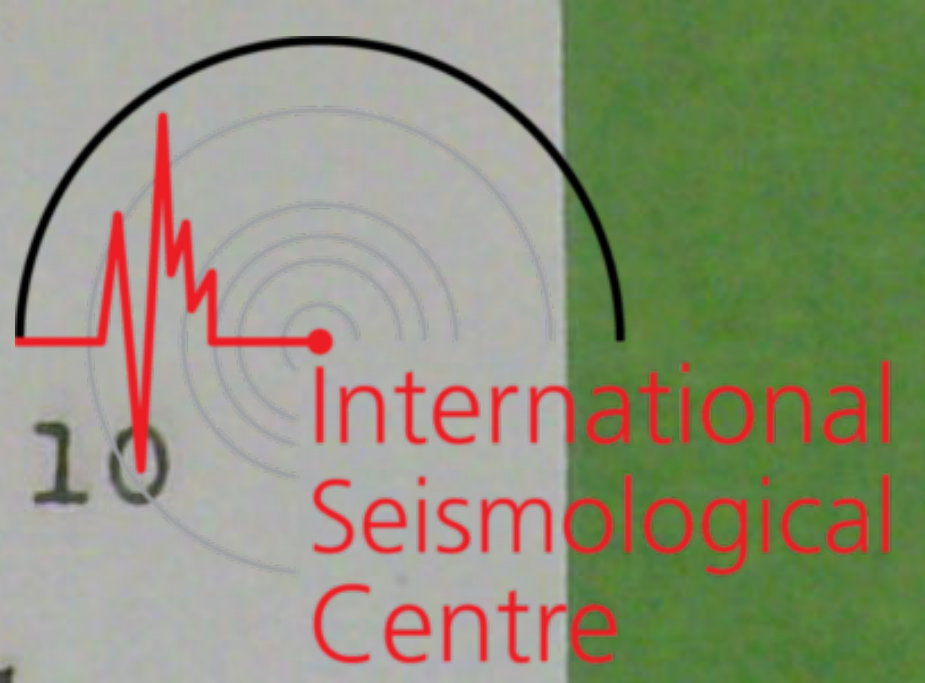
WILCHERT SEISMOGRAPH H. 200kg Z. 80kg

COMP. T r/T² v V
 E 4.3 0.01 6.0 70
 N 4.3 0.01 2.8 72
 Z 1.9 0.10 5.1 70

Date	Phase	G. h	M. m	T. s	Amp.	Peri. s	F- m	S s	Remarks
Aug.31	eLn F	6 6	15 23	21					
Sept.2	Ln F	18 19	54 01	44					
3	Pe Pn Pz eSe eSn eSz? Le F	18 18 18 18 18 18 18 19	58 58 58 59 59 59 01 59	18.1 09.6 19.7 41 44 40 08			1	34	
4	ePe? Pn Sn Le Ln F	6 6 6 6 6 6	23 22 25 29 29 56	22 49.7 03.9 50.3 46.7			2	14	
5	Pe Pn Sn? F	20 20 20 21	56 56 57 05	59.1 59 25				34	
7	Pe Pn Pz Se F	12 12 12 12 12	29 29 29 29 32	28.1 26.4 28.4 30.7				2.6	
8	ePe? ePn eSe? F	1 1 1 1	02 02 02 17	15 09 34				41	
8	ePe Pn Le Ln F	20 20 20 20 20	16 16 17 17 27	32 22.1 37.1 32.9					
10	Ln F	14 14	22 32	52					
14	Pne	5	23	41.6					
15	Pne Pz Sne L	12 12 12 12	33 33 35 41	58.9 57.5 41.5 09			1	42.6	

PRELIMINARY REPORT OF SEISMIC OBSERVATION

NO 10



International
Seismological
Centre

PALAU OBSERVATORY
WEST CAROLINE ISLANDS

September 1937

WIECHERT SEISMOGRAPH H.200kg Z.80kg

Comp.	T	r/T ²	v	V
E	4.3	0.01	6.0	70
N	4.3	0.01	2.8	72
Z	1.9	0.10	5.1	70

Date	Phase	G. h	M. m	T. s	Amp.	Peri. s	P- m	S s	Remarks
Sept.17	eLn	22	20	01					
17	Pn?	22	21	44.7				48.2	
	Sn?	22	22	32.9					
	F	22	30						
18	ePn?	4	23	53					
	F	4	41						
21	Pe?	9	42	11.3			1	41.7	
	Pn	9	42	11.1					
	Pz	9	42	11.2					
	Se	9	43	53.0					
	Sn	9	43	54.5					
	F	10	14						
22	ePn?	3	13	57			2	41.7	
	eSe?	3	16	42					
	F	4	09						
23	Pe	13	11	13.3			4	17.4	
	Pn	13	11	13.0					
	Pz	13	11	12.6					
	Se	13	15	30.7					
	Sn	13	15	42.2					
	Sz?	13	16	02.7					
	Me	13	21	59	200	8.0			
	Mn	13	21	05	515	10.7			
	F	14	58						
23	ePn?	15	01	58					
25	eLn?	0	56	29					
	F	1	02						
25	Pn?	17	45	45.8			5	09.7	
	Sn?	17	48	55.5					
	F	17	55						
26	ePe?	23	15	20					
	ePn?	23	15	17					
	F	23	32						
27	Pne	9	01	11.8			4	55.7	
	Pz	9	01	11.5					
	Sne	9	03	07.5					
	F	9	50						

Preliminary Report of Seismic Observation

No 11

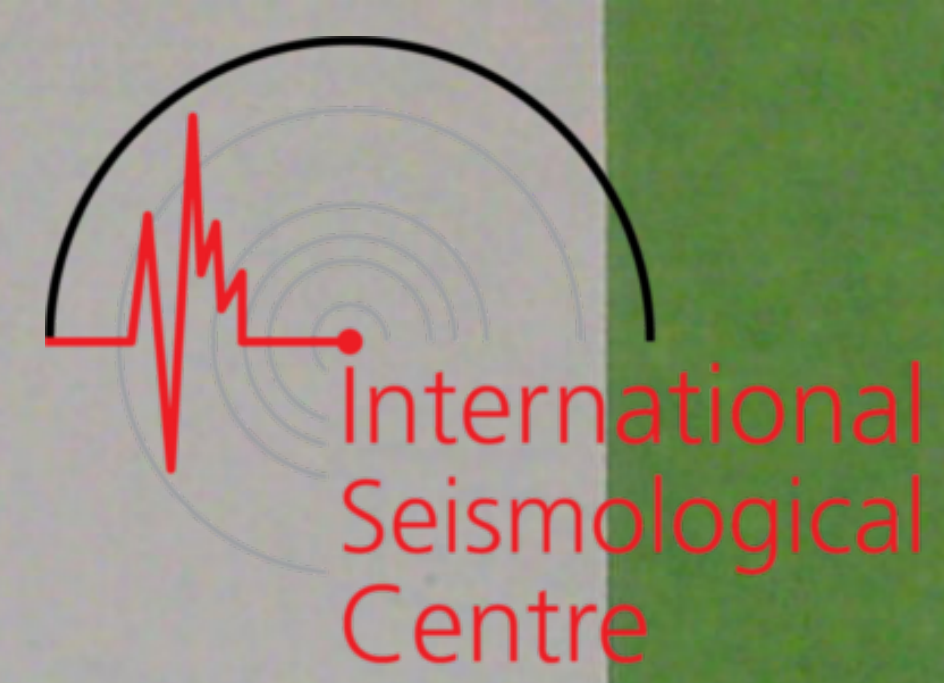
Palau Observatory
West Caroline Islands

September-October
1937

Wiechert Seismograph H.200kg Z.80kg

Comp.	T	r/T ²	v	V
E	4.3	0.01	6.0	70
N	4.3	0.01	2.8	72
Z	1.9	0.10	5.1	70

Date	Phase	G. h	M. m	T. s	Amp.	Peri. s	P- m	S s	Remarks
Sept. 28	Pnez	13	20	43.4			2	19.8	
	Se	13	23	03.8					
	Sn	13	23	03.2					
	eSz	13	23	07					
	F	13	37						
Oct. 2	Sne	3	34	16.0					
	F	3	35						
2	Pne	19	43	04					
	F	19	44						
3	Pne	23	16	35.9					
	F	23	17						
4	Pe	3	56	21.5					
	F	3	57						
6	ePe	17	10	03			4	27.5	
	Pn	17	09	59.6					
	Pz	17	10	00.1					
	eSe	17	14	27					
	Sn	17	14	27.1					
	eSz	17	14	20					
	F	18	19						
7	Pe	23	42	00.5				4.9	
	Pn	23	42	00.1					
	ePz	23	42	04					
	Se	23	42	05.0					
	Sn	23	42	06.0					
	F	23	43						
8	eSn	0	31	54					
	F	0	39						
10	ePn	20	29	34					
	eLn	20	42	46					
	F	20	48						
27	ePn	18	54	12			1	38	
	eSn	18	55	50					



PALAU OBSERVATORY
WEST CAROLINE ISLANDS

WIECHERT SEISMOGRAPH H.200kg Z.80kg

1937

COMP.	T	r/T ²	v	V
E	4.3	0.01	6.0	70
N	4.3	0.01	2.8	72
Z	1.9	0.10	5.1	70

DATE	PHASE	G.	M.	T.	AMP.	PERI.	P-S		REMARKS
							m	s	
Nov. 2	Pn	9	41	57				12	
	S	9	42	09					
	F	9	43						
2	ePn	11	00	28			4	21	
	eSn	11	04	09					
	F	11	29						
5	Pn	9	31	10			2	18	
	Pe	9	31	14					
	eSn	9	35	28					
	F	9	59						
5	Pne	14	19	55				7	
	Sne	14	20	02					
	F	14	20	24					
12	ePe	2	53	49				29	
	Sne	2	54	18					
	F	2	54	50					
26	Pe	2	59	40.5				6.4	
	Se	2	59	46.9					
	F	3	00	02					
26	Pn	10	49	39.0			3	43.2	
	Sn	10	53	22.2					
	Ln	10	55	05.6					
	F	11	33						
Dec. 8	Pnez	8	33	45.4			3	44	
	eSn	8	42	29					
	F	9	31						
13	Pn	18	58	30			3	45	
	Sn	19	02	15					
	F	20	10						
16	eLn	18	29	51					
	F	19	11						
17	ePe	4	54	58					
	F	5	04						
17	SNz	9	36	50			3	55	
	Sn	9	40	45					
	F	10	22						
23	en	13	50	01					
	eLn	13	55	31					
	F	15	03						