No. From to 191

HARVARD UNIVERSITY, CAMBRIDGE, MASS., U.S.A.

RECORD OF THE SEISMOGRAPHIC STATION

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

$\phi = 42° 22' 36''$ N. $\lambda = 71° 06' 59''$ W. Gr. h = 5.367 M. FOUNDATION: Glacial sand over clay.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
			h. m. s.	s.	μ.	Kms.	
	1917						
	Mar. 3	O?	10 13 57½			2930	From S_E-P_E. N 2880:0, 10h 13m 47s.
		eP_E?	10 19 38				
		eP_N	10 19 42	2			
		S_E	10 24 16½	6			N damped 4:1. E undamped
		S_N?	10 24 42?				and so for month.
		eL_E	10 27 15½	20			
		L_N	10 28				
		L_N	10 28 33½	14			
		L_E	10 31 06½	12			
		C_E	10 33 14½	10			
		F	11 18 ca				
	Mar. 5	O	3 05 19			3680	Masked by microseisms 4.8 secs period.
		P_E?	3 12 13				
		S_E	3 17 41				
		eL_E	3 22 02	20			N record illegible
		L_E	3 26 43	12			
		C?	3 31 29				
		F?	3 01 ca				
	Mar.15	O	0 ?? ??			?	P & S lost in tangled lines of diurnal W elongation of E component. Weak M. N record too faint.
		eL_E	1 01 43	14			
			1 05 37	20			
		M_E?	1 09 10	18			
		F?	1 24 ca				
	Mar.26	O	14 ?? ??			?	
		e_N	14 19 30	3			
		e_E	14 19 40	4			
		L_E?	14 20 37	10			
			14 22 30	10			
		L_N?	14 23 21	6			
		L_E?	14 29 11	6			
			14 32 14	6			
		F?	14 40 ca				
	Mar.26	O	14 ?? ??			?	
		L_E?	14 44 44	13-10			
		F	14 51 ca				
							Issued April 10, 1917.

J. B. Woodworth

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INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

From March 29, 1917 to April 30, 1917

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
	1917		h. m. s.	s.	μ.	Kms.	
	Mar.29	O	2 ?? ??			?	First phases masked by microseisms.
		e_E	2 17 53	6			
		eL?	2 20 11	24			
		M?	2 28 04	20			Record overlooked in March
		L	2 46 59	10			
		F?	3 00				
		L?	3 08 00 to	10			Probably part of same record with F at 3-08.3
		F?	3 08 20				
	Apr21	O?	0 52 10			8450?	
		i_N	1 12 55	3			Possibly iP. Interpretation doubtful.
		i_E	1 12 55	2			
		S_E	1 13 37	10			
		L_E	1 29 46	20			A very slight; on undamped component only.
		L	1 38 56	18			
		L	1 45 56	20			
		F?	2 04 30				

Issued May 2, 1917.

J. B. Woodworth

No. 1 From June 1 to June 30, 1917. 191

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RECORD OF THE SEISMOGRAPHIC STATION

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$\phi = 42° 22' 36''$ N. $\lambda = 71^{h} 06' 59''$ W. Gr. h = 5.367 M. FOUNDATION: Glacial sand over clay.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

No.	Date 1917	Phase	Time h m s	Periods s.	Amplitudes μ.	Δ Kms.	REMARKS
	Jun 1	O	12 02 04			2140	Short period L waves.
		eP_N	12 06 32				
		eP_E	12 06 39				
		i_N	12 08 32	4			A_N increases.
		S_E	12 10 07	6			
		eL_E?	12 11 56	8			
		L_E	12 12 08	8			Later LL irregular.
		F?	12 22 ca.				
	Jun 3	e_E	7 07 24				
		i	7 07 51				
		L_E	7 09 25				
		L	7 11 20	10			
		F	7 25				
	Jun 3	e?	19 48 18				
		e	19 53 11				
		e	19 53 53				
		L_E?	20 01 18	15			
		F	20 20 ca.				
	Jun 4	O?	1 27 09			7240	From L-S.
		eP_E?	1 38 41				
		S_E	1 46 31				
		eL_E	1 58 54	20			
		L	2 02 17				
		F	3 19 ca.				
	Jun 5	O?	4 ca.			16000	From L_{rep_1}-L by formula $\frac{25.3m \times 320 \text{ kms.}}{2}$
		eP?	4 18 35				
		S?	4 33 44				
		i	4 45 46				
		eL?	5 01 50	20			
		L_{rep_1}	5 27 12 to 5 29 42	15			
		F	5 34				
	Jun 6	O?	16 27 19			6420?	From eL-S. Early phases masked by pulsations--not microseisms. A_E increases and becomes irregular in period.
		S_E?	16 45 13	8			
		eL_E	16 55 28	16			
		L	17 04 13				
		F?	17 40 ca				
	Jun 7	O	2 55 07			5600	(N.B. Messines ridge in France reported blown up at 3h. ca.)
		P_E	3 05 13				
		P_N	3 05 16				
		S_E	3 12 28	6			
		eL_E?	3 20 38	18			
		eL_N	3 20 50	15			
		L_E	3 25 34	8			
		F	3 42				

A. B. Woodworth

No. 2 From June 1917. to 191

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
			h. m. s.	s.	μ.	Kms.	
	1917 Jun 7	O?	20 07 29			~~3625?~~	~~From L-S?. A weak record.~~
		eP?	20 15 24				
		S_E	20 19 45				
		eL_E	20 23 20				
		F	20 41 ca.				
	Jun 8	O	0 51 32			3520	City of San Salvador destroyed.
		P_E	0 58 14				
		P_N	0 58 22				
		S_E	1 03 32				
		S_N	1 03 35				
		eL_E	1 06 20	38			
		eL_N	1 06 35	16			
		M_E	1 09 59	17			
		M_E	1 14 44	15			
		$L_R L$	3 15 59	10			
			3 17 59	15			
			3 26 51	13			A decreases with period.
		F	3 38 30				
	Jun 9	O?	17 30 12			75 60?	
		P?	17 41 10				
		S_E?	17 50 13	7			
		eL_E	18 03 26	16			L then 17,20
		L	18 17 26				End of sinusoidals.
		L	18 20 12 to 18 23 08	16			
		L	18 35 16 to	16			
		F	18 37 20				
	Jun 10	O	4 32 21			4500	
		P_E	4 40 15	3			
		i	4 41 45	6-8			
		S_E	4 46 30				
		L_E	4 54 12	20			
		M?	4 57 43				
		C	4 58 45	8			
		C	5 08 45				A_E increases again.
		F?	5 46 ca.				
	Jun 12	O	2 03 ca.				Feltin St. Lawrence Valley (Klotz).
		e	2 03 48				
		i	2 04 30				
			2 04 32	4			
		L_E	2 04 42	4			
		F	2 05 25				

J. B. Woodworth

No. 3 From June 1917. to 191

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RECORD OF THE SEISMOGRAPHIC STATION

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

No.	Date	Phase	Time	Periods	Amplitudes	Δ	REMARKS
			h. m. s.	s.	μ.	Kms.	
	1917 Jun 13	O?	6 49 04			9760?	
		eP?	7 01 54				
		i	7 07 38				Sinusoidal waves set in following S:no definite eL_E.
		i	7 09 02				
		S_E	7 12 01				UNDAMPED COMPONENT.
		(LL)	7 18 30	20			Probably SS but look like LL.
			7 40 41	20-30			
		M_E	7 50 37				
		L_R	9 58 24	20			
		F	10 15 10				
	Jun 16	e?	---------				
		L_E	16 11 45	14			Periods run down to 8secs.
		F	16 28 41				
	Jun 16	e?	22 59 30				
		L_E?	23 10 59	15			
		$M?_E$	23 13 14	15			Periods run down to 8 secs.
		F	23 36				
	Jun 21	e?	---------				Seismic?
		L_E	14 01 18 to 14 02 18	14			
		L_E	14 04 26 to 14 05 27	var			
		L_E	14 06 04 to 14 06 40	8			F?
	Jun 21	e?	2 53 58				
		L_E	2 59 10	20			A very faint.
		F	3 08 06				
	Jun 22	e	0 42 27				Record very faint.
		S?	0 46 11	16			
		e	0 49 55	12			
		L_E	0 58 14	20			
		F	1 25 52				
	Jun 24	O	2 near 3				Phases indistinct.
		e?	20 07 10				
		e_E	20 08 50				
		i_E	20 13 50	6			
		i	20 14 47	9			
			20 31 26	12			
		L_E	20 48 28	20			
		F	21 50 ca.				

J. B. Woodworth

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch-Omori 100 kg. horizontal pendulums (mechanical registration).

No.	Date	Phase	Time h. m. s.	Periods s.	Amplitudes μ.	Δ Kms.	REMARKS
	1917						
	June26	O	5 50 53			10000	
		eP_E	6 03 55				
		i	6 08 35				
		i	6 14 27				
		S_E	6 14 43				
		i	6 17 46				
		eL_E	6 33 15	19			
		M_E	6 40 15 to 7 21	50-17			
		F	11 08				
	Jun 27	e_N	12 34 40	2			E stopped at 12h. N damped does not register clearly.
	Jun 28	eL_E	14 42 24	23			
		L	14 43 46	18			A increases.
		F?	15 29 ca.				
	Jun 29	O?	16 05 03			4760?	From L-S.
		eP_E?	16 15 48	4			eP_E 16-13-30? gives 4480 kms. 0:16h. 05m. 34 s.
		S?	16 19 48	7			
		eL_E	16 25 03	9			eL_N16-25-04; L_N16-27-52.
		L	16 27 47	19-8			
		F	17 22				
	Jun 30	O?	17 50 34			3880	
		iP_N	17 57 34	2			
		S_N?	18 03 14	4			S_E masked by local traffic jars.
		eL_E	18 09 36				
		F	18 58 ca.				
							Issued July 20, 1917.

J. B. Woodworth.