

Jesuit Seismological Service RECORD OF THE Earthquake Station, Sacred Heart College DENVER, COLO., U. S. A.



ALTITUDE: 1655 M.
LONGITUDE. 104° 56' 54" W. Gr. LATITUDE: 39° 40' 36" N.
TIME: Mean Greenwich, midnight to midnight.
INSTRUMENT: Wiechert 80 Kg., astatic, horizontal pendulum.
NOMENCLATURE: International.

FROM Jan. 1st TO Jan. 31st

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
			h.	m.	s.		s.	AN	
<u>7-8</u>									Instrument had to be repaired and readjusted.
<u>10th</u>									activity and microssions but of doubtful character.
<u>12th</u>									Quake reported in Kagoshima Japan; true activity but of doubtful character. - If registered at all, it was between 14 th and 15 th hr.
<u>14th</u>									Tidal wave and tremors reported at Callao, Peru. no sure record here. -
<u>29th</u>									Quake reported in vicinity of Seattle, Wash. according to Georgetown observat. Washington, D.C. was at 10:56 - 11:44 Washington time. - no sure record here. -
<u>23^d</u>									Quake reported in Lepanto, Greece, near Gulf of Corinth. - no sure record here. -
									A. W. Forrestall Sr.

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FROM February 1st TO February 28th

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
							AN	AE	
			h.	m.	s.	s.	μ	μ	
70 th									Quake reported from New-york. - No record to be seen on our blank. Doubtful minor ones at different times of day.
18 th			18	20	?				Quake reported from Reno, Nevada; no record secured here. If recorded, it is probably between 18:20 and 18:40
			18	40	?				
26									activity visible during day.
28 th		Pn	6	17	?				Very irregular record. Waves broken and small though plainly visible. Epicenter unknown. Was never reported as far as I know. <i>H. W. Frontall S.J.</i>
		Pe	6	17	?				
		Sn							
		Se							
		Im	6	19	30	?			
		Ic	6	19	30	?			
		Mn	6	20	?		19		
		Mc	6	20	?			17	
		Cn	6	24	?				
		Cc	6	24	?				
		Fn	6	29					
		Fc	6	29					

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FROM March the 1st TO March 31st

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
			h.	m.	s.		s.	AN	
4		Le	16	6					a set of very irregular waves begins in E-W and are very plain in spite of record of machinery in motion. Nothing on N-S on which disturbance by machinery is stronger.
		Pe	16	17					
15									quake in Akita, Japan. Island of Hondo. no record here. -
23									activity perceptible especially from 23-24
16 th									quake reported in Japan by S ^e Louis Univ. Mo. - no visible record here. -
30 th	IL d. l.	Pn	0	52		15	87		Very good and distinct record. 1 st pul. tremors cannot be distinguished from 2 ^d . What I call 1 st pulim. are made up of waves of large amplit. They are larger than those which follow. in Tucson, Arizona. A. W. Horstall S ^r .
		Pe	0	52		15	46		
		Sn	?						
		Sc	?						
		Ln	0	58		12-15	56		
		Lc	0	58	30	12-15	62		
		Mn	?						
		Mc	?						
		Cn	1	3					
		Cc	1	3					
		Pn	1	23					
		Pe	1	19					

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FROM April 1st TO April 17th

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
							AN	AE	
			h.	m.	s.	s.	μ	μ	
6									Quake reported in Reno, Nevada. No visible record to be seen here.
8			22	-	23				Quake reported around Salt Lake, Utah. There no record except perhaps between 22 and 23.
17 th	II z.e.	Pe	17	31					Evident quake but 1 st and 2 ^d prelim. cannot be distinguished. All waves are very regular from beginning to end and all of same period and amplitude. Heavy machinery was in motion near by and the two records are combined into one. Epicenter is unknown.
		Pn	17	33					
		Se	?						
		Sn	?						
		Tc	17	31		20		12	
		Tn	17	33		20		12	
		Mc	17	43		20		12	
		Mn	17	43		20		12	
		Cc	?						
		Cn	?						
		Fc	18	1					
		Fm	18	1					
17 th									Quake reported in Martigny. No seen record here. Slant is irregular at 17:40 but this must be considered as doubtful.

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FROM April 24th TO April 30th

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
							AN <i>μ</i>	AE <i>μ</i>	
			h.	m.	s.	s.			
24	II.	Mn	8	39	30	5.5	31		Very distinct and perceptible but very short and without visible preliminary.
	d.i.	Me	8	39	30	3.6		15	
		F _n	8	42					
		F _c	8	43					
									Unknown epicentre.

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FROM May 1st To May 31st

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
							AN	AE	
							μ	μ	
h.	m.	s.	s.						
8									Quake reported from Sicily. No record received here. However there is evidence of activity and disturbance especially on E-W.
14									Quake reported at or around Ogden, Utah. - Here no sure record except perhaps around 18 th but is doubtful.
22	I r.e.	In Mn Cn Fn	23 35 23 43 23 44 23 44						Very perceptible disturbance. Hardly any record on E-W. Waves begin very gradually and increase until they stop abruptly. - Waves irregular and very small. Epicenter unknown.
26	IL r.e.	In Ie Mn Mc Cn Ce Fn Fe	15 20 15 20 15 26 15 26 16 30 16 30 16 44 16 44	20 20 20 20 20 20 20	10 10 13 13 12 12			Catania quake. Sicily. Prelim. not seen. The whole of the record is superposed on that of heavy machinery in motion near by. yet remarkably clear and distinct. Most regular waves but of same amplitude from beginning to end. Waves come in groups. Very long duration -	
27									Panama quake reported but no sure record here.

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FROM June 1st TO July 31st

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
			h.	m.	s.		s.	AN	
<i>June</i>									
1									Quake reported from Ecuador. Felt at Quito. Houses destroyed, W. coast here.
4									Mt. Lassen, Sierra Nevada Cal. eruptions begin. No only thickening of pen marks at different times. Doubtful.
13									Eruptions of Mt. Lassen at maximum. No activity here except thickening of pen marks at times.
16			10	30					Quake reported in Ventura Co. Cal. Apparent tremors.
			11	38					
22									Quake reported from Fairbanks, Alaska. Activity at times, but doubtful.
26			5						Certain activity here.
			7	20					
<i>July</i>									
5			2	2					Activity. Waves irregular and broken up.
			2	3	20				
17			7	40					Small waves irregular thickening of pen marks.
			8	20					
23			3	30					Quake reported from Sidney, N. S. W. Here most thickening of pen marks.
			4	35					
20			7						Activity here. Possibly Batavia Java, quake
			9						

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FROM Aug 1st TO Sept. 30th

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
			h.	m.	s.		s.	ΔN μ	
<u>Aug</u> <u>4</u>			23	12					Slight disturb. on E-W. component.
			24	9					
<u>8</u>			19	15					Apparent slight tremors. Heavy machinery was in motion near by.
			19	55	9				
<u>20</u>									Quake reported at <u>Cosenza</u> Italy. - Felt in Rome - not visible here.
<u>22</u>	<u>Ir</u>	<u>P_n</u>	5	36					Very distinct and clear record on N. S. - Hardly anything on E-W. Waves very small. Sinusoidal curve.
		<u>H_n</u>	5	41	8				
		<u>C_n</u>	5	49					
<u>Sept</u> <u>4</u>			8	55					Slight but distinct tremors said to have been felt in Berkeley Cal.
<u>11</u>			2						Quake reported from <u>Caravel</u> , Peru, arequippa. - Here only tremors at his marked. - Caravel destroyed it is said.
			5						
<u>19</u>			16						Tremors. - Thickening of pen marks.
			17						
<u>25</u>									Quake reported from <u>Guayaquil</u> Ecuador. - Here only signs of disturbance doubtful.

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FROM October 1st To October 31st

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
			h.	m.	s.		s.	AN	
3			16						Visible activity. Very small irregular oscillat.
			17	30					
5									Quake reported from Konia Turkey. No evident signs of activity here.
11			19	30					Small waves, very irregular on both comp. - Stronger on N-S. Quake reported after in Panama, but not confirmed.
			21	20					
14									activity. Possibly Jamaica quake.
17			12						Quake reported from Thess. Greece. - Thickening of pen marks at times. Especially from 12-14.
			14						
23									Eplains eruption of Lassen Peak Calif. Slight tremors.
26									Quake reported from Tuscany Italy. No record here.
27-28									two quakes reported in Italy. Narsium Piedmont. No sure record here. - also quake in Shabatz Servia.

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FROM November 1st To November 31st

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
			h.	m.	s.		AN	AE	
							<i>u</i>	<i>u</i>	
7									Activity. Tremors at diff times of day.
8			23						Quake reported from Los Angeles, Calif. No record here except doubtful tremors at hour marked.
8									another quake reported from the Santa Cruz Mts. Calif. - No record here.
10			6 40 8 20						Tremors + microrains during day especially at hrs marked.
19			5 7						Possibly tremors but wind was high all day.
22									Quake reported from Santa Clara Calif. - No sure indication of it here.
24	II	Pu	12 14?	?	?				Very distinct quake on N-S, hardly anything on E-W. Reported by St. Louis and Georgetown miss. - Unknown epicenter as far as I know. - Looks like a near quake.
		Su	12 16?	?					
		Mu	12 16		5	90-93			
		Cu	12 17						
		Fu	12 20						

A. W. F. Antall Sg.

1914
1915

1914 No. 12
1915 No. 1

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FROM December 1st, 1914. TO January 31st, 1915.

DATE	CHAR.	PHASE	TIME			PERIOD	AMPLITUDE		REMARKS
							AN	AE	
			h.	m.	s.	s.			
<u>Dec</u> 1914									
10			3	20					Apparent wavelets and tremors. Thickening of pen marks.
			5	40					
18									Activity, irregular wavelets. Especially on E-W.
19									Activity. Irregular records and thickening of pen marks. Especially on E-W.
25									Quake reported from Washington D. C. No record here.
<u>Jan</u> 1915									
8			13						Activity here. Thickening of pen marks. Wind was high.
			15	30					
11			5	30					Quake reported from La Barbara, Cal. Possibly slight record at his mark.
			6	0					
13									Great Italian quake. Recorded in Georgetown from 2:23 to 2:32, eastern time. Here no record of it at all. But the whole blank has evident marks of activity. This lasted the whole night.
18									Quake reported from Somerville, Oregon. No record of it here.
19									Quake reported from Cozenza, Calabria. No record of it here.
21									Panama quake reported. No record on our blank.
28			5						Activity, thickening of pen marks.
			7						

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