

# Jesuit Seismological Service

## RECORD

OF THE

Earthquake Station, Sacred Heart College

DENVER, COLO., U. S. A.

*ref id = 18682*

ALTITUDE: 1655 Met.  
 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 MARCH 1ST To MARCH 31

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		An.	Ac.		
4										Quake reported at Sivas, Asia Minor, 430 miles east of Constantinople.
9	I	e		16						Distinct activity. Thickening of pen marks on both components.
		Fn	19	15						
		Fe	19	15						
12										Quake in Caribbean Sea reported by Buffalo. Only slight and doubtful indications here.
13										Quake reported in Venice and Ancona, Italy,—only doubtful indications here if any.
15	I. r.	e	16	40						Very small but distinct wavelets on both components.
		Fn	16	47						
		Fe	16	47						
	I. r.	e	17	3						Small waves, somewhat larger than preceding.
		Fn	17	5						
		Fe	17	5						
19										Activity. Thickening of penmarks at intervals during day.
20	I	e		18						Activity. Thickening of penmarks on E-W.
		Fe	18	42						
26	I	e		16						Activity distinct, but very irregular waves.
		Fe	18	15						
30		e		9						Quake reported from Fort de France, Martinique. Activity. Long irregular waves on E-W. especially.
		Fe	11	15						

A. W. FORSTALL, Director

O. L. ABELL, Assistant



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FROM                      APRIL 1ST                      To                      APRIL 30TH                     

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		An. μ	Ae. μ		
6	I. r. e.	Pe	18	55					Second preliminaries doubtful—Visible activity preceded and followed.	
		Se	19							
		Le	19	7						
		Me	19	8		7-5	12.5			
		Fe	19	9						
13	I. n. e.	Ln	19	45					Small irregular waves more prominent on N-S.	
		Fn	19	50						
14		Me	18	54		15			Long irregular waves. Thickening of Penmarks.	
		Fe	19	2		15				
15		Mn	18	40		7			Much disturbed by minutes marks.	
		Fn	19	30		5-7				
16	I. r. i.	Ln	22	38		4-7	6		Preliminaries doubtful on account of minutes marks.	
		Mn	22	40		4-7	10			
		Cn	22	41						
		Fn	22	43						
24	I. r. e.	Pe	9	18					1st and especially 2nd preliminaries doubtful.	
		Pn	9	18						
		Le	9	25						
		Ln	9	25						
		Me	9	28		15	9			
		Mn	9	30		15	7			
		Fe	9	40						
		Fn	9	34						
26	I. r. e.	Le	2	44					Preliminaries not discernible.	
		Ln	2	44						
		Me	2	44		30	6.2			
		Mn	2	44		30	4.1			
		Fe	2	54						
		Fn	2	48						

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FROM MAY 1ST To MAY 31ST

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		An.	Ac.		
7		L		17						Wavelets on both comps. Doubtful as to being Seismic.
		F	17	16						
8		L	3	10						Small Tremors and trailers on both comps.
		F	3	25						
9										Activity and microseisms at intervals dur- ing day.
13	I. v.	Pn		?						Preliminaries not visible. Record very small and indistinct. Time somewhat doubtful--Montana, Idaho, Washington.
		Ln	2	25						
		Fn	2	31						
17		Ln	5	10						Faint irregularities and wavelets.
		Fn	7	25						
20		Le	18	40						Irregular waves.
		Me	18	43						
		Fe	18	47						
		Le	21	28						Faint trailers.
		Fe	21	34						
		Ln	20	26						Activity—Microseisms.
		Fn	20	35						

A. W. FORSTALL, S. J., Director.

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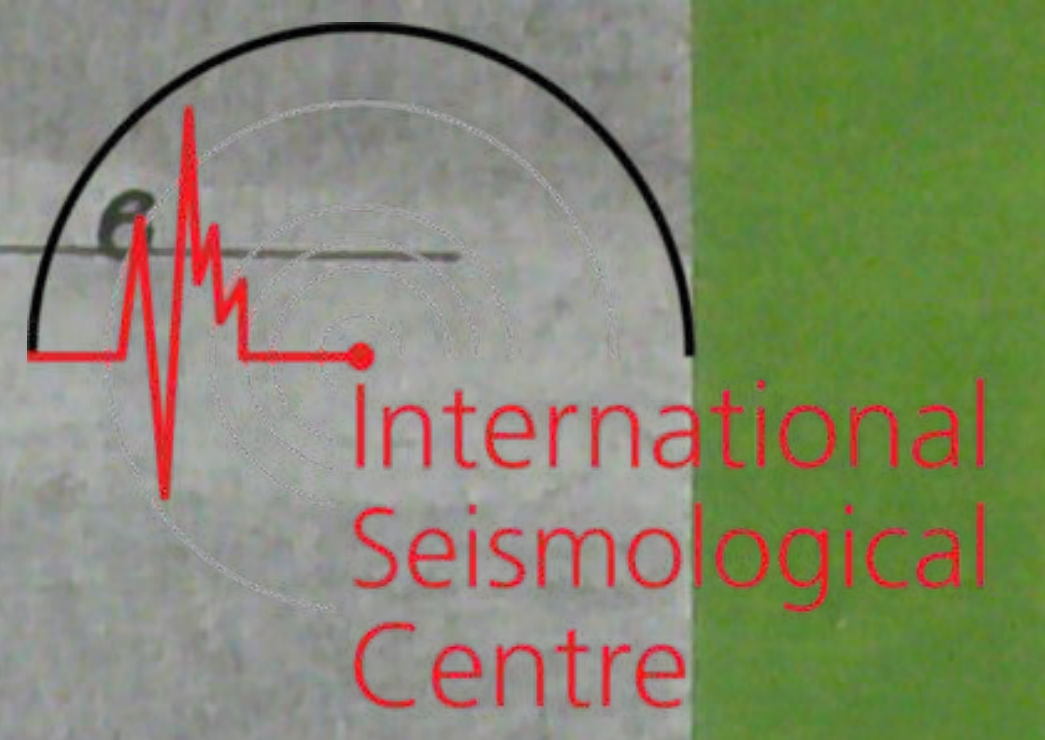
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FROM JUNE 1ST To JUNE 30TH

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		An.	Ac.		
2	II.r.i.	Pn	14	5						Second prelim. not discernible
		Pe	14	5						
		Ln	14	9		4-5	1.2			
		Le	14	9		4-5		3.1		
		Mn	14	10		7	3.1			
		Me	14	10		7		3.1		
		Cn	14	11			10-12			
		Ce	14	11			10-12			
		Fn	14	18						
Fe	14	20								
16									Visible waves recurring at intervals during day on both comps.	
17		Ln	6	30						Long period waves on both comps.—More distinct on N-S.—Possibly Farli quake, Italy.
		Fn	9	15						
19		Le	3							Long period irregular waves recurring on E-W.
		Fe	11							
21		Le	2	30						Long period, Sinus. waves on E-W. recurring between hrs. marked.
		Fe	4							

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FROM AUGUST 1ST To AUGUST 31ST

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		As.	As.		
14	r. e.	Ln	9	20					Irregular sinusoid. Almost continual during 2nd part of night. Weaker on E-W.	
		Mn	12	30						
		Fn	15							
16									Quake reported from Ancona, Rimini, Italy. No record here.	
16	r. e.	Me	1	30					Irregular sinusoid. on both Comp. Stronger on E-W.	
		Fe	10	40						
23									Quake reported from Eureka, Cal. No record here.	
24									Quake reported from Illinois. No record here.	
27	l. r. e.	Pn	22	1					Phases very irregular and uncertain.— Amplitude and period cannot be measured.	
		Pe	22	1						
		Ln	22	12						
		Le	22	10						
		Mn	22	25						
		Me	22	25						
		Fn	22	28						
Fe	22	39								

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 NOMENCLATURE: International

FROM SEPTEMBER 1ST To SEPTEMBER 30TH

DATE	CHAR.	PHASE	TIME			PER.	AMPL.		△	REMARKS
			h.	m.	s.		Am.	Ac.		
						s.	μ	μ		
7		Ln	3	40						Activity at intervals. More pronounced on N-S.
		Fn	5	10						
		Ln	19	49						Wavelets visible. Doubtful as to being seismic.
		Fn	19	51						
	I. e. u.	Ln	21	58						Too small to be analyzed, yet quite discernible.
		Mn	21	59						
		Fn	21	61						
	I. e. u.	Pn	22	20						Clearer and stronger than preceding. Visible wavelets at intervals during day.
		Ln	22	23						
		Mn	22	28						
		Fn	22	36						
	I. e. u.	Pn	18	45						Visible activity at intervals during day.
		Pe	18	45						
		Ln	18	46		8-9	6-8			
	Le	18	46		8-9	6-8				
	Fn	18	49							
	Fe	18	49							
									Thickening of penmarks at intervals during day. Somewhat doubtful as to being seismic.	
									No record of the Imperial Valley quake, California.	

OBSERVATIONS COULD NOT  
BE TAKEN DURING JULY 1916.

A. W. FORSTALL, S. J., Director.  
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 NOMENCLATURE: International

FROM OCTOBER 1ST TO OCTOBER 31ST

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		An. μ	Ac. μ		
12	II. i. d.	Ln	5	41					Felt and heard by many persons in Boulder Co. 25 m. N. W. of Denver. Apparently merely local.	
		Le	5	41						
		Mn	5	41	20		10-12			
		Me	5	41	20			10-12		
		Fn	5	41	30					
		Fe	5	41	30					
13		Ln	23	15					Small irregular waves.	
		Le	23	15						
		Fn	23	27						
		Fe	23	27						
"		Ln	23	35					Small waves recurring. Activity visible at intervals during day.	
		Le	23	35						
		Fn	23	42						
		Fe	23	42						
22-23								Irregular waves at intervals during day. More noticeable on E-W.		
30								Wavelets visible during day, but record spoiled by heavy machinery in motion.		
31	I. e. u.	Ln	16	58					Record superposed on that of heavy machinery in motion nearby.	
		Ln	16	58						
		Mn	17	5		20	4-6			
		Me	17	5		20		4-6		
		Fn	17	52						
		Fe	17	52						

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 NOMENCLATURE: International

FROM NOVEMBER 1ST To NOVEMBER 30TH

DATE	CHAR.	PHASE	TIME			PER. s.	AMPL.		△	REMARKS
			h.	m.	s.		An. μ	Ac. μ		
5-6										Visible activity at intervals during day.
10	II.e.r.	Pe	9	14						Record cannot be read on N-S owing to defect in smoking of paper.
		Se	?	?						
		Le	9	16						
		Me	9	17	8-9		50			
		Ce	9	19						
		Fe	9	21						
21	I.e.u.	Pe	6	35						2d preliminaries not discernible. Maximum rather doubtful.
		Se	?	?						
		Pn	6	35						
		Sn	?	?						
		Le	6	42	10-12					
		Ln	6	42	10-12					
		Me	6	43	20-25		5-6			
		Mn	6	43	20-25		5-6			
		Fe	6	50						
		Fn	6	48						
25-26										Visible activity at intervals during day.
30	I.e.u.	Ln	3	40						Extremely weak and uncertain.
		Le	3	40						
		Fn	4	50						
		Fe	4	50						

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