

Jesuit Seismological Service Record



of the
Seismographic Station, Astronomical and Meteorological Observatory
Santa Clara College, Cal., U. S. A.

$\phi = 37^{\circ} 26' 36''$ N $\lambda = 121^{\circ} 57' 03'' = 8^{\text{h}} 7^{\text{m}} 50^{\text{s}}$ W; elevation 27.43 M.

TIME: Mean Civil Greenwich, midnight to midnight, 0-24 hrs.

INSTRUMENTS: Wiechert 80 kg., astatic, horizontal and vertical pendulums.

NOMENCLATURE: International.

FROM June 1 TO M

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD.	AMP.	REMARKS.	
				h.	m.	s.				
6	I	N-S	P	0	46	36			Small tremors during day. Distance:—	
			S							
			L	0	46	45				
			M	0	47	12	1	.5		
			C							
			F	0	47	36				
		E-W		P	0	46	36			
				S						
				L	0	46	45			
				M	0	46	45	1		.55
				C						
				F	0	47	32			
7	III	N-S	P _i	11	08	16	1.5	3.5	Distance:— 2968.5 Km. W. 26° 22' N. Simultaneous with Mexico City quake. Sinusoid from C to F.	
			S	11	15	00	12	6.25		
			L	11	17	36	6	13		
			M	11	18	48	6	13.5		
			C	11	21	30	6	4.5		
			F	13	18	48	12	.5		
		E-W		P _i	11	08	12	1.5		5.5
				S	11	15	03	18		14.5
				L	11	17	36	9		27.5
				M	11	21	08	4		30
				C	11	21	30	12		12
				F	13	31	40	12		.5
	V		P							
			S							
			L							
			M							
			C							
			F							

11 08 16
15 16
08 44



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11	I	N-S	P	23:22:03	
			S		
			L	23:22:06	1
			M	23:22:08	1
			C		
			F	23:23:15	
		E-W	P	23:22:03	
			S		
			L	23:22:06	1
			M	23:22:06	1.15
			C		
			F	23:23:00	
		V	P		
			S		
			L		
			M		
			C		
			F		

Distance:—

Jerome S. Record, S.P., Director.
by G. Newlin, asst.

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$\phi = 37^{\circ} 26' 36''$ N $\lambda = 121^{\circ} 57' 03'' = 8^{\text{h}} 7^{\text{m}} 50^{\text{s}}$ W; elevation 27.43 M.

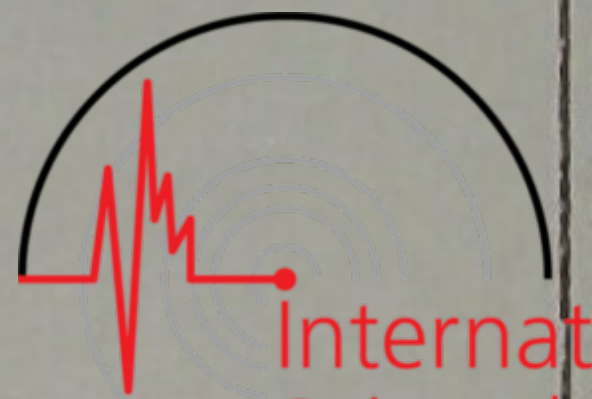
TIME: Mean Civil Greenwich, midnight to midnight, 0-24 hrs.

INSTRUMENTS: Wiechert 80 kg., astatic, horizontal and vertical pendulums.

NOMENCLATURE: International.

FROM June 15 TO 30

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD. s.	AMP. m. m.	REMARKS.				
				h.	m.	s.							
15	III _v	N-S	P _i	14	38	22	1.5	1.75					
			S										
			L _i	14	48	36	3	.75					
			M _i	14	50	03	4	1					
			C _l	14	51	30	6	.5					
		F _l	15	39	30	10	.1						
		E-W	P _i	14	38	22	1.5	3.75		Distance:— 3195.56 Km. W. 15° 57' N. P similar to No. 49.			
			S										
			L _i	14	48	36	4	2					
			M _i	14	50	06	12	3.5					
C _l	14		51	40	6	.75							
F _l	16	24	40	10	.25								
		V	P										
			S										
			L										
			M										
			C										
			F										
			16	I ₈	N-S	P _l	Trace						
						S							
						L							
						M							
C													
E-W	P _l	14			39	15	3	.5	Distance:—				
	S												
	L _l	14			39	32	1	.75					
	M _l	14			39	35	1	1					
	C												
F _i	14	39	50	3	.5								
V	P												
	S												
	L												
	M												
	C												



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	N-S	P		
		S		
		L		
		M		
		C		
		F		
<hr/>				
	E-W	P		
		S		
		L		
		M		
		C		
		F		
<hr/>				
	V	P		
		S		
		L		
		M		
		C		
		F		

Distance:—

*Jerome S. Ricard, S.J., Director,
by G.J. Hewlin, asst*

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Jesuit Seismological Service

Record

of the

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Santa Clara College, Cal., U. S. A.



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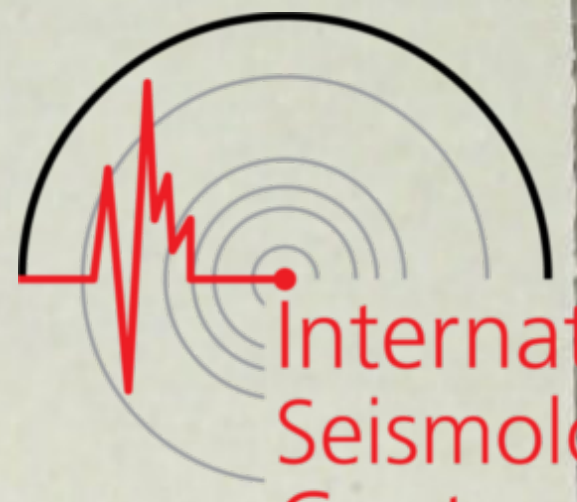
TIME: Mean Civil Greenwich, midnight to midnight, 0-24 hrs.

INSTRUMENTS: Wiechert 80 kg., astatic, horizontal and vertical pendulums.

NOMENCLATURE: International.

FROM July 1 TO 2

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD.	AMP.	REMARKS.
				h.	m.	s.			
1	II S	N-S	Pi	None					Most severe shock since April 18, 1906. Tracers thrown off drums but quickly replaced. Apparently little damage in this vicinity. Pulsatory oscillations since June 26.
			S						
			Li	22:00:07	.5(?)	55(?)			
			M	22:03:40	.5	41.25			
			C	22:05:50	1	17.75			
			F	22:33:30	1.5	.1			
		E-W	P						
			S						
			Li	22:00:07	.5(?)	55(?)			
			M						
			C	22:09:14	1.5	4.25			
			F	22:34:24	1	.5			
V	P								
	S								
	Li	22:00:07	.5(?)	70(?)					
	M								
	C	22:04:12	2	.5					
	F	22:05:10							
2	I S	N-S	Pi	2:59:56	.5	.75	Distance:—Santa Clara epicenter. No preliminaries. First shock from S. E. Many traces following.		
			Si	3:00:03	.5	6.75			
			L	3:00:06	.75	10			
			M	3:00:24	1	15.75			
			C						
			F	3:01:17	1	.25			
			E-W	Pi	2:59:56	.5		1.75	
				Si	3:00:01	.5		5	
				L	3:00:06	.75		11	
		M		3:00:24	1	19.5			
		C		3:01:03	1	2.5			
		F		3:04:30	2	.5			
		V		P	2:59:56	.5		1.75	
				S					
				L	3:00:03	.5		5	
			M	3:00:23	.5	6.75			
			C	3:00:50	.75	1.5			
			F	3:01:42	1	.25			
Distance:—110.7 Km. E 38° 55' S. Light shock felt. Trace from 2:05 to 2:05:18.									



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			F	3:04:30	2	.5
		V	P	2:59:56	.5	1.75
			S			
			L	3:00:03	.5	5
			M	3:00:23	.5	6.75
			C	3:00:50	.75	1.5
			F	3:01:42	1	.25
2	75	N-S	P	6:19:48	1	.1
			S			
			L	6:19:54	1	.75
			M	6:20:00	1	1.75
			C	6:20:30	1	.75
			F	6:21:18	1	.2
		E-W	P	6:19:48	.5	.25
			S			
			L	6:19:54	1	.5
			M	6:20:00	1	1
			C	6:20:18	1	.5
			F	6:21:00	1	.25
		V	P			
			S			
			L			
			M			
			C			
			F			

Distance: — 81.62 Km. S. 29° 46' E.

Jerome S. Ricard, S.J., Director,
by A. J. Newlin, asst.

International Seismological Centre

Jesuit Seismological Service Record



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TIME: Mean Civil Greenwich, midnight to midnight, 0-24 hrs.

INSTRUMENTS: Wiechert 80 kg., astatic, horizontal and vertical pendulums.

NOMENCLATURE: International.

FROM July 2 TO 8

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD.	AMP.	REMARKS.
				h.	m.	s.			
2	ID	N-S	P _e	20:00:22			.5	.1	Trace at 1.34 July 3. Pulsatory oscillations continue. Distance: - 81.62 Km. E 36° 52' S.
			S						
			L	20:00:28			.5	.5	
			M	20:00:33			.5	.75	
			C						
			F	20:00:39			1	.25	
			P _Q	20:00:22			.5	.2	
		S							
		L	20:00:28			.75	1		
		M	20:00:33			1	2.25		
		C	20:01:00			1	1.75		
		F	20:03:00			1	.2		
		V	P						
		S							
L									
M									
C									
F									
5	ID	N-S	P _i	8:33:52					Distance: - 74.35 Km. E 5° 29' S.
			S						
			L	8:33:57					
			M	8:33:57				.12	
			C						
			F	8:34:09					
			P _i	8:33:52			1	.3	
		S							
		L	8:33:57			1	.75		
		M	8:34:02			1	1.25		
		C	8:34:21			1	.5		
		F	8:35:00			1.5	.1		
		V	P						
		S							
L									
M									



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			C		
			F		
5	ES	N-S	P		
			S		
			L		
			M		
			C		
			F		
		E-W	P	9:39:03	
			S		
			L	9:39:09	
			M	9:39:30	1 2.25
			C	9:39:34	
			F	9:40:12	
		V	P		
			S		
			L		
			M		
			C		
			F		

Distance: —

Jerome S. Ricard, D. J. Director
by A. J. Newlin Asst.

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TIME: Mean Civil Greenwich, midnight to midnight, 0-24 hrs.

INSTRUMENTS: Wiechert 80 kg., astatic, horizontal and vertical pendulums.

NOMENCLATURE: International.

FROM July 8 TO 14

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD.	AMP.	REMARKS.	
				h.	m.	s.				
8	FS	N-S	P						Distance:—	
			S							
			L							
			M							
			C							
			F							
		E-W	P	11:47:56						
			S	11:48:02						
			L	11:48:06						
			M	11:48:24	1		1.75			
			C	11:48:30						
			F	11:49:15						
			V	P						
	S									
	L									
	M									
	C									
	F									
12	JW	N-S	P	4:26:00		Trace			Distance:— 10529 km. W. (S.) Sinusoid from L to F.	
			S							
			L	4:55:00						
			M							
			C							
			F	5:04:00						
		E-W	P	4:25:52	4		.5			
			S							
			L	4:54:24	20		.75			
			M	4:56:50	20		1			
			C	5:04:10	20		.25			
			F	5:52:00	20		.2			
			V	P						
	S									
	L									
	M									
	C									
	F									



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			S			
			L			
			M			
			C			
			F			
14	ES	N-S	P	14:21:21		
			S			
			L	14:21:29		
			M	14:21:30	1	.5
			C	14:21:45		
			F	14:22:21		
		E-W	P	14:21:24		
			S			
			L	14:21:29		
			M	14:21:39	1	.4
			C			
			F	14:22:18		
		V	P			
			S			
			L			
			M			
			C			
			F			

Distance: —

*Jerome S. Ricard, S.J., Director,
by A. J. Newlin, asst.*

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NOMENCLATURE: International.

FROM July 18 TO _____

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD. s.	AMP. m. m.	REMARKS.	
				h.	m.	s.				
18	FS	N-S	P _e	21	55	30			Traces July 18-19. Distance:—	
			S							
			L	21	55	33				
			M	21	55	45	1.5	.62		
			C	21	56	40				
			F	21	57	00				
		E-W	P _e	21	55	33				
			S							
			L	21	55	36				
			M	21	55	52	1	.75		
			C	21	56	00				
			F	21	56	14				
		21	FS	N-S	P _e	0	09	29		
S										
L	0				09	35				
M	0				09	53	1.5	1.25		
C	0				10	40				
F	0				11	30				
E-W	P _e			0	09	29				
	S									
	L			0	09	36				
	M			0	09	50	1.5	1		
	C			0	10	20				
	F			0	11	36				
				V	P					
		S								
		L								
		M								
		C								
		F								
					P					
					S					
					L					
					M					
					C					
					F					



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			L		
			M		
			C		
			F		
31	18	N-S	P	13:12:40	
			S		
			L	13:12:50	
			M	13:12:56	1 .87
			C	13:13:12	
			F	13:14:06	
		E-W	P	13:12:40	
			S		
			L	13:12:50	
			M	13:12:50	1 1
			C	13:13:03	
			F	13:13:45	
		V	P		
			S		
			L		
			M		
			C		
			F		

Distance: —

Jerome S. Ricard, S.J., Director,
by A. J. Merkle, asst.

INTERNATIONAL SEISMOLOGICAL CENTRE
 1000 UNIVERSITY AVENUE
 WASHINGTON, D. C. 20004
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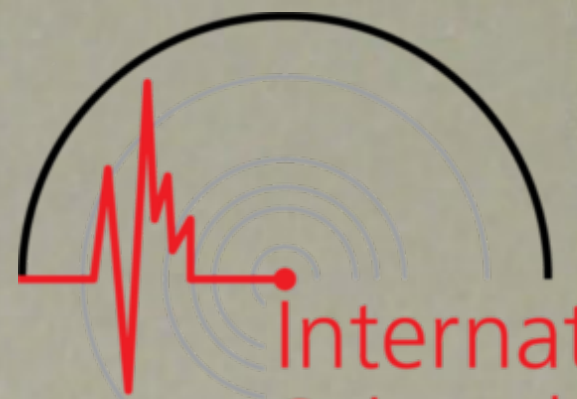
NOMENCLATURE: International.

FROM Aug. 1 TO 14

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD.	AMP.	REMARKS.	
				h.	m.	s.				
1	IS	N-S	P ₁	10	23	24				
			S							
			L	10	23	30				
			M	10	23	40	1	1		
			C	10	24	10				
			F	10	24	36				
		E-W	P ₁	10	23	24				
			S							
			L	10	23	30				
			M	10	23	45	1	.66		
			C	10	23	55				
			F	10	24	18				
6	IS	N-S	P ₁	19	51	30				
			S							
			L	19	51	40				
			M	19	52	10	.8	13.75		
			C	19	52	36				
			F	19	56	45				
			E-W	P ₁	19	51	30			
				S						
				L	19	51	40			
		M		19	57	57	.8	19		
		C		19	52	24				
		F		19	57	00				
		V		P ₁	19	51	30			
				S						
				L	19	51	36			
			M	19	57	58	.8	5.75		
			C	19	52	15				
			F	19	57	45				

Distance:—

Distance:— 110.7 Km. E. 35° 53' S.
Faint shock felt.



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			F	19:57:00		
		V	P	19:57:30		
			S			
			L	19:57:36		
			M	19:57:58	.8	5.75
			C	19:52:15		
			F	19:52:45		
14	ES	N-S	P	13:51:48		
			S			
			L	13:51:53		
			M	13:52:06	1	1.87
			C	13:52:35		
			F	13:54:00		
		E-W	P	13:57:48		
			S			
			L	13:51:53		
			M	13:52:15	.75	1.87
			C	13:52:24		
			F	13:53:54		
		V	P			
			S			
			L			
			M			
			C			
			F			

Distance:—
Small records during days.

Jerome S. Ricard, S.J., Director,
by A. J. Newlin, asst.

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TIME: Mean Civil Greenwich, midnight to midnight, 0-24 hrs.

INSTRUMENTS: Wiechert 80 kg., astatic, horizontal and vertical pendulums.

NOMENCLATURE: International.

FROM AUGUST 16, 1911

TO SEPTEMBER 12, 1911

DATE.	CHAR.	COMP.	PHASES.	TIME.			PERIOD. s.	AMP. m. m.	REMARKS.
				h.	m.	s.			
16	N-S		P e	22	54	36			Small records Aug. 15.
			S						
			L	23	20	50			
			M	23	39	45	15	.25	
			C						
			F	00	18	30			
	E-W		P i	22	54	36			
			S						
			L	23	25	54			
			M	23	38	45	10	1.25	
			C	00	30	00			
			F	00	47	00			
V		P							
		S							
		L							
		M							
		C							
		F							
28	N-S		P i	3	05	07			Distance:— 132.5 Km. N. 34° 52' E.
			S						
			L	3	05	20			
			M	3	05	34	1	16.5	
			C	3	06	33			
			F	3	09	00			
	E-W		P i	3	05	06			
			S						
			L	3	05	19			
			M	3	05	27	1	11.5	
			C	3	06	12			
			F	3	08	24			
V		P	Trace						
		S							
		L							
		M							
		C							
		F							



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		L			
		M			
		C			
		F			
Sept. 12	N-S	P i	2: 53: 57		
		S			
		L	2: 54: 03		
		M	2: 54: 28	.8	4.25
		C	2: 54: 44		
		F	2: 58: 00		
	E-W	P i	2: 53: 57		
		S			
		L	2: 54: 11		
		M	2: 54: 15	.8	4.25
		C	2: 54: 43		
		F	2: 58: 00		
	V	P			
		S			
		L	2: 53: 54		
		M	2: 53: 54	2	1.25
		C	2: 53: 57		
		F	2: 54: 35		

Distance:—

Small tremors during day.

JEROME S. RICARD, S. J., Director
by A. J. NEWLIN, Asst.

1911
 International Seismological Centre
 1911