

Jesuit Seismological Service Record

of the
Earthquake Station, St. Louis University
St. Louis, Mo., U. S. A.



LATITUDE: 38° 38' 17" N.
LONGITUDE: 90° 13' 58".5 or 6^h 0^m 55^s.9 W. Gr.
TIME: Mean Greenwich, midnight to midnight.
INSTRUMENT: Wiechert 80 kg., astatic, horizontal pendulum.
NOMENCLATURE: Goettingen.

1911

From January 1st to January 31st

DATE.	CHAR.	PHASE.	TIME.	PERIOD. T.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
Jan. 3-4	III _u	S _E	23 50				P, if present on either component, cannot be recognized on account of microseismic disturbances. The waves in S and first part of L are too irregular for accurate determination of amplitude or period; the earth motion was apparently very complicated. A short train of large, irregular waves appeared on N-S component at 23 ^h 57 ^m .7 between time for RS ₁ and RS ₂ ; cannot identify them.
		S _N	23 50.6				
		L _E	0 12				
		L _N	0 13.4				
		M _E	0 16	34	847		
		M _N	0 27.9	21		488	
		F _E	2				
		F _N	2				
Jan. 8						} Days of unusual microseismic motion.	
Jan. 10							
Jan. 21							
<i>J. P. Sweeney</i>							

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From February 1st to February 16th

DATE.	CHAR.	PHASE.	TIME.			PERIOD. T	AMPLITUDE.		REMARKS.
							AE	AN	
			h.	m.	s.	s.	μ	μ	
Feb. 4	I	eL _N	4	29.7					E-W component shows no distinct M.
		M _N	5	06.5	30		6		
		eL _E	5	38.6					
		F _N	7	24.1					
		F _E	8	24.6					
Feb. 4	I	eL _N	8	51.6					No decided M on E-W.
		M _N	9	07.8	12		1		
		eL _E	9	22.6					
		F _N	9	46.6					
		F _E	9	48.6					
Feb. 5	Ir	iP _N	4	29.4	3		5		No trace of P on E-W component. The train of waves at 4:31.5 seems to be PS.
		i _N	4	29.6	3.9		4		
		RP _N	4	29.7					Distance calculated 2690 km. Co-ordinates of the epicenter, as determined from data supplied by Ottawa, Harvard, St. Boniface and St. Louis, were λ = 89°, φ = 14°, 23', near San Salvador, Central America.
		PS?	4	31.5					
		iS _N	4	33.7	4		6		
		eS _E	4	33.7					
		i _E	4	34.1					
		i _N	4	34.6	6		6		
		eL _E	4	35					
		M _N	4	39.7	6		9		
		M _E	4	39.7	5.1	13			
		C _E	4	42.7					
		F _N	4	51.2					
		F _E	4	54					

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From February 17th to February 28th

DATE.	CHAR.	PHASE.	TIME.	PERIOD. T.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
Feb. 17	I	eP _E	14 28.8				
		eP _N	14 29.8				
		eS _E	14 32.8				
		L	14 33.8				
		M _E	14 34.9	6	12		
		M _N	14 35.6	7.8		18	
		F	15 01				
Feb. 18	I	eL _N	2 03				
		eL _E	2 04.5				
		M	2 06.4	9.6	14	16	
		F _E	2 16				
		F _N	2 20				
Feb. 18	Ilu	e _E	19 22.1				Macedonian Earthquake.
		e _N	19 25.6				Up to 19 ^h 43 ^m the motion on both components was very complicated and irregular.
		S _E	19 27.4				
		L _E	19 34.1				
		eL _N	19 36.1				
		M _E	19 38.6	18	102		
		M _N	19 45.1	18		211	
		F	20 10				
Feb. 28	I	eL _E	4 24.6				
		F	6 00.6				

J. B. Goesse, S. J.

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From MAR 1 to MAR 31

DATE.	CHAR.	PHASE.	TIME.	PERIOD. T	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
Mar. 10	I	eL _N	1 28				
		M _N	1 34.4	17		6	
		F _N	3 18				
Mar. 10	I	eL _E	11 2.7				
		F _E	11 45				
Mar. 22	I	eL _N	7 02				
		F _N	8 37				

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From April 1st to April 30th

DATE.	CHAR.	PHASE.	TIME.	PERIOD. T.	AMPLITUDE.		REMARKS.	
					AE	AN		
			h. m. s.	s.	μ	μ		
April 10	Ir	P	18 49.2					Distance 3600 km. According to reports received from northern Colombia by the Jesuit Observatory of Havana, the epicenter of the earthquake was between Bogota and Cartagena. The macroseismic data furnished by Havana, Ottawa, Trieste and St. Louis, place the epicenter at: Long. 75° 50' W., Lat. 8° 36' N.
		S _E	54.6	7	8			
		S _N	54.6	9		11		
		L	57.2					
		M _E	19 3.5	14	22			
		M _N	4.2	15		34		
		F	23					
April 28	Iir	P	10 0.4					
		L _N	7					
		L _E	7.1					
		M _E	7.2	6	13			
		M _N	7.2	5.5		15		
		F _E	22					
		F _N	51					

J.B. Seese

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International
Seismological
Centre

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NOMENCLATURE: Goettingen.

From May 1st to May 31st

DATE.	CHAR.	PHASE.	TIME.	PERIOD. T.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
May 4	Ilu	P	23 17.1				
		iS _N	26.5	6		25	(S-P) _N = 9 ^m 31 ^s Distance 8200 km. (S-P) _E = 10 ^m 6 ^s Distance 8900 km. The coordinates of the epicenter, calculated from data furnished by Darmstadt, Vienna and St. Louis, are: Long. $152^{\circ} 30' E$. Lat. $51^{\circ} N$
		iS _E	27.1	6	8		
		L	39.6				
		M _E	40.6	24	105		
		M _N	41.2	21		95	
		F _E	43				
		F _N	48				

J. B. Grosse, S. J.

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From June 1st to July 31st

DATE.	CHAR.	PHASE.	TIME.			PERIOD. T.	AMPLITUDE.		REMARKS.
							AE	AN	
			h.	m.	s.	s.	μ	μ	
June 15	II	i _{1E}	14	47.1		7.8	75		Phases are doubtful.
		i _{1N}		47.1		8.4		90	
		i ₂		53.2		6	42	36	
		F	15	33					
July 1	Ir	eP _E	22	9.9					Epicenter near San Francisco.
		L		16.5					
		M		16.6		10.8	55	60	
		F _E		47.1					
		F _N		55.5					
July 4	I	e _N	13	56.2					
		e _E		56.3					
		F _E	14	42.4					
		F _N		47.2					
July 12	I	i ₁	4	28.3					
		i _{2E}		38.1					
		i _{2N}		38.2		12	77		
		F _N	5	54.6					
		F _E	5	54.8					

J. B. Gessner, S. J.

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From August 1st to September 30th

DATE.	CHAR.	PHASE.	TIME.			PERIOD. T.	AMPLITUDE.		REMARKS.
							AE	AN	
			h.	m.	s.		s.	μ	
Aug. 16	Iu	eP	22	57	42				
		S	23	10	12				
		L		33	36				
		M _E	0	01	09	19	90		
		F	1	11	00			M _n indistinct.	
Aug. 21	I	i	16	52	12				
		F	17	10	00				
Aug. 27	I	e	11	02	50			P and S too doubtful for determination.	
		eL		08	08				
		F		37	00				
Sept. 15	Iu	P	13	28	35			(S-P)=7m 10s Distance 5550 km.	
		S		35	45				
		eL _E		41	18				
		eL _N		42	18				
		M _N		45	08	27		81	
		M _E		47	38	18	32		
		F	15	30					
Sept. 17	Iu	iP	3	40	23			(S-P) _n =8m 30s Distance 7000 km.	
		S _N		48	53				
		S _E		49	11				
		eL _N		59	23				
		eL _E	4	00	53				
		M _E		01	17	15	49		
		M _N		06	20	17		78	
		F		42					
Sept. 22	Iu	eP _N	5	15	29			(S-P)=7m Distance 5300 km.	
		eP _E		15	35				
		eS _N		22	29				
		eS _E		22	35				
		L _N		27	59				
		L _E		38	53				
		M _N		29	08	8		1mm	
		M _E		29	09	9	1mm		
		F		53					

J. P. Gassner

CORRECTION: To the time set down in our record for May 4th, 1911, add 31m., i. e., instead of 23h 17.1m, write 23h 48.1m.

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From October 1st to October 31st

DATE.	CHAR.	PHASE.	TIME.			PERIOD. T.	AMPLITUDE.		REMARKS.	
							AE	AN		
			h.	m.	s.	s.	μ	μ		
Oct. 6	IIr	iP	10	21	53				(iP-iP) _E = 4 m 42 s Distance 3000 km. Haiti	
		iS _N		26	33					
		iS _E		26	35					
		LN		29	39					
		LE		29	44					
		M _N		31	30	15		204		
		M _E		31	30	15	172			
		F	14	14						
Oct. 10	Ir	iP	13	18	03					
		iS		32	27					
		LN		25	33					
		LE		26	00					
		M _N		35	00	12		30		
		M _E		35	45	12	25			
		F	14	00						
Oct. 15	I	e	16	58	7				S and P could not be determined on account of micriseismic disturbances.	
		LE	17	09						
		LN		11	9					
		M _E		12	5	15	25			
		F	18	02						
Oct. 29	Ir	P _N	18	20	9				No distinct Maximum	
		P _E		21						
		S _E		25	9					
		S _N		26						
		LE		28	1					
		LN		28	9					
		F		46						

J. B. Gossett, II. J.,
Director
George Rueppel, II. J.
Associate

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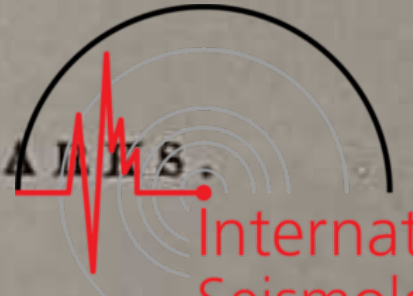
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November 30th.

From November 1st to _____

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	T.	μ	μ	
Nov. 18	I	PN	7 38.2				P _E and S _E not distinct Dist. = 3150 km.
		SN	43				
		LN	48				
		F	8 06				
Nov. 20	Ir	PN	13 54.7				
		PE	55.5				
		SH	58.6				
		LN	14 05				
		LE	06.5				
		ME	88	15	18		
		MN	08.5	15		44	
F	16.5						
Nov. 22	E	e	10 20.4				E-W too indistinct
		LN	21				
		F	27.3				
Nov. 25	E	PE	19 35.8 ?				F lost in microseisms
		PN	37 ?				
		SE	39.8				
		SN	42				
		LE	42.8				
		LN	43				
		MN	43.6	12		35	
		ME	45	12	15		

J. B. Goesse, S. J.,
Director
George Rueppel, S. J.
Associate



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DATE.	CHAR.	PHASE.	TIME.	PERIOD. T.	AMPLITUDE.		REMARKS.
					AE	AN	
c. 16	IIIr	P _E	19 ^{h.} 19.4 ^{m.} 5 ^{s.}	6.38	2 ^μ	μ	(S-P) _N = 4 m 20s Distance = 2690 km.
		P _N	19.5	6.38		3	
		S _E	23.8	8.7			
		S _N	23.8	8.7			
		L _E	25.2			(49)	
		L _N	25.3	14.5		1064	
		M _N	30				
		M _E	30	12	546		
		F _N	21 06.5				
		F _E	12.5				
c. 22	Ir	P	13 00.1				(S-P) _N = 4m 30s. Distance = 2830 km.
		S _E	04.6				
		S _N	04.6				
		L _N	08.1				
		L _E	08.2				
		M _N	20.6	13		45	
		M _E	20.7	13	34		
		F	38				
c. 23rd	I	e	7 57.9				F overlapped by following quake
		L _N	58.8				
		L _E	58.7				
c. 23rd	I	e _N	8 08.6				Microseismic disturbances during the entire day.
		e _E	07.5				
		F	43				

J. B. Goesse, S. J.,
 Director
 George Rueppel, S. J.,
 ASSOCIATE