

1911

JESUIT SEISMOLOGICAL STATION

No. 1

Spring Hill College, Mobile, Ala.

Lat. 30° 41' 44" Long. 88° 08' 46" West.

Time: Mean Greenwich--- midnight to midnight. 0-24 hrs.

Instrument: Wichert 80 Kg. Horiz. Nomenclature: International.

DATE	CHAR	PHASE	TIME			PERIOD	AMPL	REMARKS
			h.	m.	s.			
Jan 1	Iu	LN						Trace
		LE	12	20				
Jan 3-4	IIIu	iPN	23	45				Preceded by ten days of occasional micro-seisms. P and S are very irregular. In the SN occur irregular large waves at 23h. 50m., 23h. 54m. and Oh 06m. The beginnings of LN and LE are both irregular. The rest of the gram is much clearer and regular.
		ePE	23	45				
		SN	23	51?	5-6-10			
		SE	23	51?	3-7			
		eLN	0	15?	40-25	40.6		
		eLE	0	15?	36-20	16.3		
		MN	0	29	25	100.3		
		ME	0	28	20	59.6		
		CN ₁	0	44	20	24.2		
		CN ₂	0	46	16	23.4		
		CN ₃	0	50.5	16	22		
		CE ₁	0	50	16	7.2		
		CE ₂	0	55	16	8.1		
		FN	2	07				
		FE	1	54				

Rev. Cyril Ruhlmann, S. J.

SPRING HILL COLLEGE OBSERVATORY
Mobile, Alabama.



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Instrument: Wichert 80 Kg. Horiz. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME			PERIOD s.	AMPL μ	REMARKS
			h.	m.	s.			
Jan 17			7:00					Microseisms continue till 2h Jan 18
Jan 21			0:00			7.5	2-3	Beginning of unusual microseisms --very regular and continuous until 2hJan 22
Jan 29	--	---	---				---	Microseisms.
Feb 5.	IIr	iPN	4 28.2			5.	32	Very sudden wave dying down with 6 oscillations.
		ePE	4 28.2					
		SE?	4 31.4					SN not defined
		iLN	4 31.8					LN very irregular
		iLE	4 31.8					
		MN	4 32.1			5.	27.5	
		ME	4 32.1			4.5.	32	at 4h 33.3m a set of SE seems to come in, followed by a second LE at 4h 35m
		E	4 37				31	
		FN	5.06					
		FE	5.09					
Feb 6	Ir	iPN	2 24.5			4	6.3	Sudden beginning like Feb 5.
		ePE	2 24.5					
		LN	2 28			4	7.8	
		LE	2 28			4	6.3	
		FN	2 47					
		FE	2 47					
Feb 17	Ir	ePN	14 28					Microseisms on Feb 12, 13, 14, 15, 16,
		LN	14 33					
		MN	14 38			5.	6	
		ME	14 38			7.5.	5.	
		FN	14 54					
		FE	14 57					
Feb 18	Ir	iPN	2 00					
		iPE	2 00					LN very complex
		MN	2 09.5				4	
		FN	2 30					
		FE	2 47					
Feb 18	IIu	ePN	19 06					
		ePE	19 08					
		SE	19 29?					Very irregular
		MN	19 45.3			17	23	
		ME	19 43			22	7.5.	
		FN	20 28					
		FE	20 29					Microseisms on Feb 18, 19.

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DATE 1911	CHAR	PHASE	TIME h. m. s.	PERIOD s.	AMPL μ	REMARKS
Mar. 31	Iv	ePN	16 57			Microseisms on Mar.3 & 4
		ePE	16 57			
		LN	16 57 40	1.5-2	6	
		LE	16 57 40	1.5-2	5	
		FN	17 08			
		FE	17 21			
31	Iv	ePN	18 12 10			
		ePE	18 12 10			
		LN	18 13	1.5-2	3	
		LE	18 13	1.5-2	3	
		FN	18 22			
		FE	18 28			
Apr. 7	Ir	ePN	18 28.8			
		PRN	18 29.2			
		ePE	18 28.8			
		MN	18 36.4			
		ME	18 36.5			
		FN	18 58			
		FE	18 54			
10	I?	N	16 23			Decided tremors on Apr. 10 at 4h. 58m. Trace. Sudden shock.
		ME	16 23	8	25	
		FE	16 29			
10	IIr	iPN	18 47.2			No distinction between P & S This quake was preceded and followed by micro- seisms.
		ePE	18 47.2			
		PR	18 48	8	20	
		iLN	18 51.8			
		LE	18 51.8			
		MN	18 53	11	37.5	
		ME	18 53.4	8	43.5	
		FN	19 38			
FE	19 34					
28	I?	LN	10 06.4			Microseisms on Apr.20-21
		MN	10 06.6			
		ME	10 06.4		17.5	
		FN	10 23		17.5	
		FE	10 29			

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Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME			PERIOD s.	AMPL μ	REMARKS
			h.	m.	s.			
May 4-5	IIr	ePN	23	50	30			S?
		ePE	23	51				
		LN	0	00	10			
		LE	0	00	10			
		MN	0	00	20	10	50	
		ME	0	00	20	15	85	
		CN	0	30		18	12.5	
		F	1	20				
9	Ir	PE?	19	48.7				Microseisms May 6,7,8,9.
		LN	19	57.4				
		LE	19	57.3				
		MN	19	57.6	8	10		
		ME	19	57.6	8	22.5		
		FN	20	19.5				
		FE	20	13.5				
10	I	PN?	0	34				
		LN	0	43				
		LE	0	43				
		MN	0	47.3	15	3		
		ME	0	47.3	15	5		
		F	1	03				
25	Ir	P?	9	03.7				Faulty record--tracings scarcely visible.
		L	9	06.1				
		MN	9	06.7	2-5	11		
		ME	9	06.7		9		
		F	9	29				

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Jesuit Seismological Service

June (No 5)
~~July~~ 1911

SPRING HILL COLLEGE OBSERVATORY
 Mobile, Alabama.

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 Time: Mean Greenwich, midnight to midnight, 0-24hrs.
 Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME h. m. s.	PERIOD s.	AMPL μ	REMARKS
June 7	Ir	iPN	11 06.8	5	156	P similar to ordinary L Transit from P to S not clear. What appears to be S is very complex. M very regular. C shocks very distinct.
			11 10		140	
		iPE	11 06.8	5	211	
			11 10		155	
			11 11		160	
		?LN	11 17		162	
		LE	11 17.6	5	412	
		MN	11 21.6	7	382	
		ME	11 23.3	6	534	
		CE1	11 42.9		57	
		CE2	11 47.5	11	43	
		CE3	12 01.9	10 52	52	
		CE4	12 04.4		66	
		CE5	12 06.2	13	46	
		CE6	12 07.2	13	50	
FN	13 49					
FE	14 10					
15	IIr	?P	14 38			Extremely complex.
		LN	14 42.7	7	33	
		LE	14 42.7		18	
		eLN	14 58	8	31	
		ME	14 57	11	24	
		F	16 31			

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SPRING HILL COLLEGE OBSERVATORY

Mobile, Alabama.

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Time: Mean Greenwich, midnight to midnight, 0-24hrs.

Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME h. m. s.	PERIOD s.	AMPL	REMARKS
July 1	Ir	?P	22 10	8	25	
		L	22 16			
		MN	22 18			
		F	23 10			
4	Ir	P	8 04		11	July 3, tremors.
		L	8 14			
		MN	8 15			
		FN	9 45			
		FE	10 02			
12	Iu	P	4 34		5	C regular sinusoid.
		PR	4 35.5			
		MN	4 44			
		ME	4 44			
		F	5 50			

The time for this month was computed approximately
 The electric contact was out of order during absence
 of director.

Rev. Cyril Ruhlmann, S. J.

BERKSHIRE BOND



(No 7)

International
Seismological
Centre.

Jesuit Seismological Service

August 1911.

SPRING HILL COLLEGE OBSERVATORY

Mobile, Alabama.

Lat. 30° 41' 44" Long. 88° 08' 46"

Time: Mean Greenwich, midnight to midnight, 0-24hrs.

Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME h. m. s.	PERIOD s.	AMPL /	REMARKS
Aug. 21	Ir	PE ME	16 34 40 16 52 20	5	12"	N Trace
26	Ir	?P iLN iLE	11 04 00 11 06 30 11 06 30	2-3	10 30	The Preliminaries are mixed up with microseisms

The P and F of this gram are lost in microseisms, which began on Aug. 25th at 22h. They were very strong and regular on the 27th and died down on the 29th towards 3h.

Rev. Cyril Ruhlmann. S. J.

Jesuit Seismological Service

(No 8)
September, 1911.

SPRING HILL COLLEGE OBSERVATORY
Mobile, Alabama.

Lat. 30° 41' 44" Long. 88° 08' 46"
Time: Mean Greenwich, midnight to midnight, 0-24hrs.
Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME			PERIOD s.	AMPL μ	REMARKS
			h.	m.	s.			
Sept 7		L	16	52				F is lost in microseisms which continue Sept. 8&9
		MN	17	00				
		ME	16	57	30			
13		?L	3	37		12-15		Microseisms Sept..3-14.
		M	3	44				
15	Iu	?P	13	20	50			F lost in microseisms.
		S	13	28	50			
		eLN	13	41				
		?LE	13	41				
		ME	13	43	30	20	3	
17	IIu	P	3	45				
		S	3	52				
		LN	4	10	15	10-15		
		LE	4	10	45	12-17		
		MN	4	16		15	6	
		ME	4	11	45	15	25	
		F	5	16				
22	IIu	P	6	12	30			Unlike the preceding grams this one is free from all microseisms.
		S	6	19	30			
		NSR	5	6	30 06		17	
		iLN	6	31	12	5-6	36.5	
		eLE	6	30	18	5-6		
		MN	6	35	40		44	
		ME	6	31			31	
								Last month's report should read Aug. 27, not 26.

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Jesuit Seismological Service

October 1911

SPRING HILL COLLEGE OBSERVATORY
Mobile, Alabama.

Lat. 30° 41' 44" Long. 88° 08' 46"
Time: Mean Greenwich, midnight to midnight, 0-24hrs.
Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME h. m. s.	PERIOD s.	AMPL m.m.	REMARKS
Sept. 29			16 00 00			Beginning of microseisms especially on E comp. Continue on Sep. 30 & Oct. 1 Very pronounced on 12h Oct. 2, continue strong on 3d. Max. at 11h. & diminish towards 14h. Strong again on 4th & 5th dying down to nothing at 19h.
Oct. 6	IIIr	NeP	10 20 08			
		iP	10 20 10	8	1	P & S very clear.
		eS	10 23 45			Transition to L so gradual that it cannot be distinguished.
		iS	10 23 55	8	6	
		M1	10 26 25		24	
		M2	10 26 30	5	25	
		M3	10 28 30		26	Distance 2060 Km.
		M4	10 29 25	10	21	Reported from Haiti.
		F	11 25 00			
		EeP	10 20 08			
		iP	10 20 10	8	2	
		eS	10 23 45			
		M1	10 27 55	10	22.8	
		M2	10 30 00		19.5	
		M3	10 31 24		22.8	
		F	11 25 00			
10		?	9 25			
		NF	9 41			
		EF	9 47			No decided max.
10	Ir	P	13 10 50			
		S	13 41 42			Very irregular.
		NLL	13 25 12	10	5	Time a little uncertain.
		EML	13 27 50		1.5	Distance 2340 Km.
14		N	17 17			
		E	17 15			Quake distinct from microseisms, which begin at 6h become marked at 10h, and very clear and regular, strongest between 20h and 4h Oct. 15
16			00 00			
			8 00			Tremors on E comp. Become more pronounced.

Jesuit Seismological Service

(No 10)
October, 1911

SPRING HILL COLLEGE OBSERVATORY
Mobile, Alabama.

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Time: Mean Greenwich, midnight to midnight, 0-24hrs.

Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE 1911	CHAR	PHASE	TIME h. m. s.	PERIOD s.	AMPL m.m.	REMARKS
Oct. 29	r	P	18 13 30			
		NS	18 18 00			
		ES	18 18 10		.5	
		NF	19 01			
		EF	19 39			
31	Ir	NeP	9 30 10			
		iP	9 30 15		1	
		eS	9 33 48			
		iS	9 34 15	10	2	
		EeP	9 30 15			
		eS	9 33 48			
		iS	9 33 55	8	2	
		F	10 04			

Until further notice the amplitudes will be given in m.m. from point of rest. Variations of the constants caused by temperature variations, give doubtful earth amplitudes.

The acquisition of a first class chronometer and the installation of a mercury compensating pendulum in the contact clock will insure correctness of time

Rev. Cyril Ruhlmann, S. J.

No. 11

November, 1911

Jesuit Seismological service.

SPRING HILL COLLEGE OBSERVATORY
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Time: Mean Greenwich, midnight to midnight, 0-24hrs.

Instrument: Wiechert 80 Kg. Nomenclature: International

DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE.		△
				AN mm	AE mm	
7	?P	6 14	8			N Only trace.
	LE	6 17				
	F	6 43				
13	?L	16 51	18			P obscured by wind-storm
	F	17 26				
25	L	19 44 35	7	0.6	0.4	P lost in microseisms
	M1	19 48 28				
	M2	19 49 55				
	F	20 00 00				

Errata of No. 10

October 31 should read: November 1.

Rev. Cyril Ruhlmann, S. J.

December, 1911

No. 12

Jesuit Seismological Service.

SPRING HILL COLLEGE OBSERVATORY
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Time: Mean Greenwich, midnight to midnight, 0-24hrs.
Instrument: Wiechert 80 Kg. Nomenclature: International.

DATE	PHASE	TIME H. M. S.			PERIOD	AMPLITUDE		Δ	REMARKS		
						AE mm	AN mm				
16	eP	19	18	34	5	9	9	2030	Mexico		
	iP	19	18	49							
	eS	19	22	00							
	EiS	19	22	10							
	L	19	27	34							
	MM ₁	19	32	29						5	14
	MM ₂	19	33	04						5	14
	EM	19	36	04						5	11
	ESR	19	22	24						2	11
22	P	12	58	56	8		1	3320	E very faint.		
	S	13	02	46							
	L	13	09	31							
	F	14	05								
23	?	20	00	00					Sinusoid.		
	F	14	10	00							
23	W P	21	09	40	10				E only a trace No decided L		
	eS	21	12	30							
	iS	21	14	06							
	F	22	00	00							

74
19 249
18 35

Rev. Cyril Ruhlmann, S. J.

13 00 00
12 59 61
12 58 56
1 05

60
59 112
62 52
58 56
1 56

27 6
18 48
2 29

O
M