

Bulletin of the Seismographic Station

of the

Loyola University, Chicago, Illinois, U.S.A.
For the Year 1927



A More Extended Investigation of the Loyola's Station Record
of the Earth quake of May 22 1927 in the Kansu Province, China
Gives the Following Results.

Date	Char.	Phase	G.M.T.			Period		Amplitude		Remarks
			h.	m.	s.	E.	N.	E.	N.	
May 22 1927	u	P	22	46	22					$\Delta = 102^{\circ}2$ $O = 22^h$ 32^{mm} 40^s
		P'?	22	50	06					
		PR ₁		50	32					
		PR ₂		53	05					
		PR ₃		55	10					
		PR ₄		55	57					
		ScPcD		57	06					
		ScPcPcS		57	48					
		PS	23	01	35					
		PPS	23	03	30					
		SR ₁		05	20					
		PPSS		05	35					
		PSSS?		09	30					
		SR ₂		10	06					
		ScPcPcS'		10	32					
		SR ₃		12	48					
		?		14	00					
		?		14	45					
		PR ₃ '		15	30					
		PR ₄ '		18	20					
L		21	25							
M		25	25	19		440				
M		26	57	17		390				
M		27	58	21		360				
M		31	58		47		850			
M		32	52	17		300				
M		35	47	16		220				
PPSS'		35	48							
SR ₂ '		42	30							
PSSS'		43	25							

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Latitude 41° 54' N Instrument: Wiechert 80^{kg} astatic
 Longitude 87° 38' W Horizontal
 Elevation 183 in Subsoil: Alluvium

No	Date	Char.	Phase	G.M. Time h. m. s.	Period		Amplitude		Remarks
					E.	N.	E	N	
11	July 28	Iu.	ePe eSe e? eMe	16 25 - 59 33 - 00 36 - 40 42 - 20					
12	Aug. 10	Ir.	iPn PR ₁ PR ₂ SN iLn iMn M2 M3	01 42 - 18 43 - 10 43 - 21 47 - 30 51 - 10 52 - 10 58 - 00 59 - 19					ΔS-P = 32°6 = 3611 km O = 01 - 35 - 16 Epicenter: Pacific Ocean - South of Panama
13	Aug 10	Iu.	eLn eMn	12 36 - 20 12 43 - 15					
14	Aug 18	Iu	eLn eMn F	20 18 - 18 20 19 - 00 20 42 <u>±</u>					
15	Aug 20-21	I.r.	eP? ?P? i? i eSn eSe? iLn M _e	00 01 - 18 00 01 30 03 - 18 04 - 05 00 06 - 20 07 - 25 09 - 50 12 - 28					Faint

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Year 1927

Latitude 41° 54' N Instrument: Wiechert 80^{1/2} astatic
 Longitude 87° 38' W Horizontal
 Elevation 183 in Subsoil: Alluvium

No	Date	Char.	Phase	G.M. Time h. m. s.	Period		Amplitude		Remarks
					E.	N.	E	N	
11	July 28	Iu.	ePe eSe e? eMe	16 25 - 59 33 - 00 36 - 40 42 - 20					
12	Aug. 10	Ir.	iPn PR ₁ PR ₂ SN iLn iMn M2 M3	01 42 - 18 43 - 10 43 - 21 47 - 30 51 - 10 52 - 10 58 - 00 59 - 19					ΔS-P = 32°6 = 3611 km O = 01 - 35 - 16 Epicenter: Pacific Ocean - South of Panama
13	Aug 10	Iu.	eLn eMn	12 36 - 20 12 43 - 15					
14	Aug 18	Iu	eLn eMn F	20 18 - 18 20 19 - 00 20 42 ±					
15	Aug 20-21	I.r.	eP? ?P? i? i eSn eSe? iLn M _e	00 01 - 18 00 01 30 03 - 18 04 - 05 00 06 - 20 07 - 25 09 - 50 12 - 28					Faint

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No	Date	Char.	Phase	G.M.T.			Period		Amplitude.	
				h.	m.	s.	E	N.	E.	N.
16	Sept. 3	Ir.	P _E iP _N PR ₁ PR ₂ S ₂	20	56	41				
17	Sept. 11	Iu.	eP _N ? eP _E ? ePR ₂ S M ₁ M ₂ M F.	22	27	51				
										$\Delta = 74^{\circ} 3'$ Epicenter: In Crimea.
19	Oct. 24	IIIr.	iP PR ₁ PR ₃ iS P _c P SR ₁ SR ₂ SR ₃ L ₃ S _c S M _c M M M P _c SS _c P	16	06	48				
										0-15 59 35 $\Delta = 35^{\circ} 3'$ Epic. Southern Alaska.
10	Npv. 4	4IIr.	P PR ₁ PR ₃ P _c P iS _c SR ₁ ? SR ₁ SR ₂ SR ₃ P _c S M _c S _c S M _c	13	56	41				
										0-13 50 30 $\Delta = 28.1$ Epic. 122W. 33.2 N.
							12		3420	
							12		2700	
							12		2880	
							6		280	

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Latitude 41° 54' N. Instrument: Wiechert 80kg astaticHori
Longitude 87° 38' W. zontal.

Elevation: 183m Subsoil: Allubium.

Constants.

Determined	Component	Period T ₀	Damping	V	$\frac{V}{T_0^2}$
Sept. 5	E.W.	4.7	2.6	95	0.0094
	N.S.	5.0	3.4	103	0.011

No	Date	Char.	Phase	G.M.T.			Period		Amplitude		Remarks
				h.	m.	s.	E.	N.	E.	N.	
19 Continued.	Nov. 4	I.r.	M	14	07	06		6		280	
			M _n	14	07	45		6		295	
			M _e	14	08	00	9		595		
			M _e	14	09	30	9		435		
			M _n	14	09	45		7		130	
			P _c S _s C _p	14	15	08					
20	Nov. 6	I.u. I.r.	P _e	2	53	40					Off California
			L _n	2	54	10					
			M	2	09	30					
			M	2	57	34					
21	Nov. 14	I.u.	L	0	42	10					Epic. Northern Siberia.
			M	0	47	30					
			M	0	49	15					
22	Nov. 14	I.u.	?	5	16	10					
			L	5	24	?					
			M	5	30	00					
			M	5	39	00					
23	Nov 14	I.u.	iS	7	39	40					Very faint
			M	8	00	00					
24	Nov. 21	II.u.	iS?	23	36	10					
			S		37	35					
			S		39	55					
			L?		51	10					
			M		59	00					
25	Nov. 22		M	01	06	40					
			M	01	10	36					