

University of Vermont Seismograph Station
Burlington, Vermont
Elbridge C. Jacobs in charge

(Operated in conjunction with the Coast & Geodetic Survey)

Latitude, $44^{\circ} 28' 48''$ Longitude, $73^{\circ} 11' 49''$
Elevation, 99.5 meters. Foundation, compact glacial clay

Equipment

Two Milne-Shaw horizontal seismographs, ## 52 & 53, 1932.
Azimuths of drums, North 60° West and North 60° East.

Instrumental Constants

	Mass	Mag.	Free Period	Damping Ratio	Deflec- tion	Paper Speed
N.W.	1 lb.	250	12"	20:1	50.9	8mm/minute
N.E.	"	"	"	"	46.0	"

1935 Earthquakes

Abbreviations

JSA, data taken from Jesuit Seismological Association
E, epicentral time
H, hypocentral time (JSA)
Depth, depth of focus (JSA)
Az., azimuth of epicenter from this station.

No.	Date 1935	Phase	Time of Phase G. C. T.	Time at Origin	Remarks
1	Jan. 1	e SKS e PS e	13 h 45' 13 49 13 54 35"	E 13 20 56	Lat. 17°S Lon. 174°W Arc distance 105.7° Azimuth 265° Depth ca. 240 km Heavy microseisms
2	Jan. 23	eP iS iScS eSS eSSS eL	7 h 34' 06" 7 42 15 7 44 00 7 46 05 7 49 00 7 54 20	E 7 24 07	CCS Lat. 54°N Lon. 170°W Arc. dist. 59.9° Az. 313° Depth normal △ P-S 59.4°
3	Feb. 22	eP ePPP iS eSS eL	17 h 17' 12" 21 30 25 52 29 10 41 40	E 17 06 12 H 17 05 59	Lat. 52°N Lon. 175°E Arc dist. 67.5° △ P-S 48.3° △ P-H 48.3°? Measured 65.6°
4	Apr. 19	iP ePP iS ePS iSS eSSS L	15 h 34' 20" 36 00 43 15 44 15 47 35 51 55 52 53	E 15 23 24 H 15 23 32	Lat. 28°N Lon. 12°E JSA. 32°N; 15°E Arc dist. 67.5° Az. 72° Depth 40 km △ S-P 66.1° △ P-H 66.9°
5	May 23	e eS L	18 h 6' 10" 10 33 13 45	H 17 59 13	JSA. Lat. 24.5°N Lon. 46°W
6	May 30	eP ePP iSKS iS SS L	21 h 46' 39" 51 10 57 30 58 30 22 05 00 17 55	E 21 33 00 H 21 32 58	Lat. 28.5°N Lon. 65.5°E JSA. 30.2°N Lon. 66.9°E △ P-H 98.4° Measured 97.2° Destructive 'quake at Quetta, Beluchistan

Minor movements:

Jan. 2, ca. 23 h; Jan. 3, 2 h 56'; Jan. 4, ca. 15 h
 Feb. 4, eL, 2 h 4'; Feb. 25, S, 3 h 11' 50"; e 3 h 20'
 Mar. 29, eL, 13 h 32'; Apr. 20, eL 22 h 57'; Apr. 24, 19 h
 July 19, on NW component, waves 1 h 13' 42" to 1 h 39'
 July 28, e 4 h 52' 9" to 5 h 1' 9"

No.	Date 1935	Phase	Time of Phase G. C. T.	Time at Origin	Remarks
7	June 25	e	23 h 38' 14"	H 23 23 06	JSA. Lat. 19 S°
		e	46 00		Lon. 168.5°E
		e	57 48		" Depth 140 km
		e	24 06 48		
8	June 29	eP	6 h 56' 00"	E 6 48 57	Lat. 18.2°N;
		ePP	57 10	H 6 48 53	Lon. 103.3°W
		e	7 00 50		Arc dist. 36.5°
		eSS	04 10		Az. 233°
		ScS	05 15		
		L	06 40		△ P-H 36.5°
9	July 29	eP	7 h 53' 05"	E 7 38 52	Lat. 23°S; Lon. 178°W
		ePP	57 50	H 7 38 47	Arc dist. 117°
		iS	8 04 58		Az. 264°
		iPS	07 00		Depth ca. 500 km
		i	09 55		
		eSS	13 05		△ P-H 108°
		eSSS	16 18		
10	Aug. 1	eP	16 h 15' 10"	E 16 08 17	Lat. 10°N; Lon. 86°W
		ePP	16 40	H 16 08 17	Arc dist. 36°
		eS	20 55		Az. 205°
		eSS	23 00		
		eL	25 25		△ S-P 35.7°
11	Aug. 3	ePP	1 h 31' 37"	E 1 10 06	Lat. 5°N; 96°E
		eSKS	32 40	H 1 10 09	Arc dist. 130.1°
		eSS	48 50		Az. 10°
		L	2 04 18		△ PP-H 130.6°
		eSSS	53 54		
	Aug. 17	ePP	2 h 05' 13"	E 1 44 40	Lat. ca. 20°S; Lon. ca.
		ePS	15 35	H 1 44 57	172°E
		eSS	21 53		Arc. dist. 122.4°
		eL	36 00		Az. 273°
					△ PP-H 122.6°
12	Aug. 22	ePR ₁	20 h 37' 27"	E 20 30 48	Lat. 73°N; Lon. 66°W
		iS	41 47	H 20 30 49	Arc. dist. 28.5°
		L	45 14		Az. 5°
					△ S-H 28.8°
					△ measured 27.9°

Minor movements

July 19	e	1 h 13' 42"	to 1 h 39' 37"
Aug. 23	e	10 30 44	
	i	32 24	
also	e	14 20 09	
	e	39 00	?
	eL	15 12 00	
Aug. 25	ePP?	5 18 00	
	eS	22 35	
	eSS	25 35	
	eL	29 28	

No.	Date 1935	Phase	Time of Phase	Time at Origin	Remarks
13	Sept. 4	eP eS eSR ₁ eL ₁	1 h 36' 18" 43 11 46 26 50 21	E 1 27 42 H 1 27 51	Lat. 65°N; Lon. 152°W Arc dist. 45.9° △ S-P 46.5°
14	Sept. 9	eS ePS e eL	6 h 45' 10" 47 54 7 07 18 15 41	H. (tentative) 6 17 40	Lat. (JSA.) tentative 5.8°N; Lon. 139°E Depth, 160 km Considerable micro- seisms △ PS-H 121° Measured 119.7°
15	Sept. 11	eP iS iSS L	14 h 16' 42" 27 05 33 42 43 54	E 14 04 00 H 14 04 12	Lat. 45°N; Lon. 146°E JSA. 44.5°; " 147° Arc dist. 84.3° △ S-P 84.6° Depth. 60 km
16	Sept. 15	iP eS eSS L	14 h 21' 19" 31 10 33 21 42 27	E 14 08 54 H 14 09 10	Lat. 29°S; Lon. ca. 114°W Arc dist. 81.9° Depth 110 km △ P-H 80.4° △ S-H 80.8°
17	Sept. 18	eP eS e L	5 h 05' 25" 11 28 14 43 19 30	E 04 57 54 H 04 58 07	Lat. 5°N; Lon. 76°W JSA. Lat. ca. 7°N; Lon. ca. 77.7°W Arc dist. 39.1° △ S-P 38.2°
18	Sept. 20	e iPP iSKP iPPP iSKKP iPPS iSS iL	2 h 06' 05" 07 50 09 10 11 00 14 30 19 50 26 08 46 00	E 01 46 48 H 01 46 39	Lat. 2.5°S; Lon. 142°E Arc dist. 128.3° Az. 317° △ PP-H 129°

Minor movements

Sept. 19	e	2	h 54' 05"
	e		59 05
	eL?	3	25 05

No.	Date 1935	Phase	Time of Phase	Time at Origin	Remarks
19	Sept. 23	eP ePP e e ePS eSS eL	9 h 33' 32" 39 12 40 35 46 20 49 09 56 32 10 17 09	E 9 18 18 H 9 18 30	Lat. 1.5°S; Lon. ca. 142°E Arc dist. 127.2° Az. 310° △ PP-H 124.5° △ Measured 127.2°
20	Sept. 24	eP eS eSS e eL	22 h 19' 44" 25 32 28 14 31 04 32 21	E 22 12 24 H 22 12 21	Lat. 50°N; Lon. 130°W Arc dist. 38.2° Az. 300° △ P-H 38.4° △ Measured 39.1°
21	Oct. 2	iP iPP iS	5 h 45' 34" 49 10 56 00	H 5 33 06	JSA. Lat. 43.8°N Lon. 146.5°E Depth 80 km △ P-S 83.7° △ P-H 84.1° △ S-H 84.0°
22	Oct. 12	eP eS eL	16 h 58' 26" 17 09 11 17 30 31	H 16 45 44	JSA. Lat. 43°N; Lon. 144°E △ P-H 86.9° △ S-H 87.4°
23	Oct. 18	eP ePS	0 h 25' 05" 35 22?	H 0 12 34	JSA. Lat. 43.8°N; Lon. 147°E △ P-H 84.7°
24	Oct. 19	iP iS iL	4 h 54' 30" 58 28 5 01 45	E 4 48 03 H 4 48 04	Lat. 46.6°N; Lon 112°W Arc dist. 27° Az. 290° △ S-P 22.7°

Minor movements

Sept. 30	ePPP?	19 h 15' 29"
	eS?	19 44
	eL	26 22
Oct. 18	eP	11 h 25' 05"
	e	41 10
	eL	12 05 15
	Also	
	eP	15 h 17' 25"
	eL	43 30

No.	Date 1935	Phase	Time of Phase	Time at Origin	Remarks
25	Oct. 31	eS	18 h 48' 10"	E 18 37 48	Lat. 47.1°N; Lon. 111.8°W Arc dist. 26.8° Az. 288° Δ S-H 26.2°
		e	48 15	H 18 37 51	
		iSS	49 18		
		iL	51 13		
26	Nov. 1	iP	6 h 04' 48"	E 6 03 45	Lat. 46.4°N; Lon. 79.4°E; Arc dist. 503 km Az. 298° Δ P-H 4.75° Felt locally Rossi-Forrell 3 to 4
		iS	05 36	H 6 03 35	
27	Nov. 10	eP	18 h 33' 40"	E 18 27 30	Lat. 16.7°N; Lon. 62.2°W Arc dist. 29.3° Az. 152° Δ P-H 27.6° Δ Measured 27.9°
		e	34 10	H 18 27 49	
		eS	38 23		
		e	39 10		
		eSS	39 45		
28	Nov. 30	iP	3 h 46' 40"	E 3 39 45	Lat. 10.1°N; Lon. 79.5°W Arc dist. 34.7° Depth ca. 50 km Δ P-H 33.7° Measured 33.4°
		i	46 47	H 3 39 59	
		ipP	46 48		
		iPP	47 48		
		iS	52 15		
		L	58 30		
29	Dec. 14	iP	1 h 39' 40"	E 1 31 22	Lat. 6.5°S; Lon. 72.5°W JSA. 5.5°S; 73.3°W Arc dist. 51° Depth ca. 350 km Δ P-H 45.1° Δ S-P 45.7° Measured 50.0°
		iS	46 29	H 1 31 24	
		iSS	48 20		
		iSS	50 01		
		eL	53 08		
30	Dec. 14	iP	22 h 12' 01"	E 22 05 20	Lat. 14°N; Lon. 93°W Arc dist. 34.6° Az. 215° Δ S-P 34.1° P-H 33.2° Measured 34.6°
		iPP	13 31	H 22 05 20	
		i	14 13		
		iS	17 28		
		iSS	19 19		
		iL	21 49		

Minor movements

Nov. 4 e 4 h 13' 12"
eL 14 44
e 10 h 30' 33"
eL 31 26
e 14 h 10' 36"
e 11 40
L? 19 47

No.	Date 1935	Phase	Time of Phase	Time at Origin	Remarks
31	Dec. 15	eP'	7 h 25' 26"	E 7 07 45	Lat. 12.5°S; Lon. 161°E JSA. 10.6°S Lon. 160.7°E Arc. dist. 124.7° Az. 288° △ PS-H 121.9° △ Measured 122.9°
		ePP	28 46	H 7 07 49	
		eSKS	34 01		
		eSKKS	35 19		
		ePS	38 12		
		eSS	46 01		
		L	8 04 16		
32	Dec. 17	iPP	19 h 36' 50"	H 19 17 25	JSA. Lat. ca. 21°N Lon. ca. 126.5°E △ PP-H 113.5° △ SS-H 112.4° △ Measured 111.2°
		e	44 43		
		ePS	46 15		
		eSS	52 28		
		L	20 02 50		
33	Dec. 28	eP'	2 h 54' 30"	E 2 35	Lat. ca. 3°S; Lon. 97°?E JSA. ca. 2.5°S; Lon. 99.5°E Arc dist. 137.7° Az. 15° △ PP-H 138.8° △ Measured 137.4°
		ePP	57 32	H 2 35 20	
		iSKKS	3 04 44		
		PS	07 27		
		SS	15 20		
		SSS	20 41		
		L	33 30		

Minor movements

Dec. 20	e	8 h 02' 43"
	e	03 40
	e	04 15
Dec. 20	e	19 h 02' 52"
	e	07 25
	e	14 33
	eL	34 10
Dec. 21	e	12 h 07' 30"
	e	09 47
	e	12 26
Dec. 24	e	12 h 32' 03"
	e	33 48
	e	38 40