

# Jesuit Seismological Service Record

of the

Seismographic Station, Astronomical and Meteorological Observatory  
University of Santa Clara, California, 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.

G-W Galitzin-Wilxip

DATE	CHAR. Inst	COMP.	PHASES.	TIME			PERIOD s.	AMP. m. m.	REMARKS
				h.	m.	s.			
Jan 1 1935	G-W	XNK	iP	13:31:55				e 24mm	67.7° SW 4673 mi. Near Samoa Islands.
			iS	13:40:56				e 55mm	
			L	13:52:26				n27mm	
			M						
			C	13:57:38					
			F	15:14					
Jan 2	G-W Wick	FX	eP	22:41:50				n 6mm	Distance:— 2.7° 187 mi. Near Eureka, Calif.
			iS	22:42:45				e28mm	
			L						
			M						
			C						
			F	24:00					
Jan 3	G-W &Wick	XX	iP	17:35:36				e 193mm	Very light shock felt in San Jose, Calif.
			S					e 39mm	
			L						
			M						
			C						
			F	17:38					
Jan 4	G-W	XNK	K	e15:37:43					
			S						
			L						
			M						
			C						
			F	15:47					
Jan 17	G-W	XBW	PK	e02:47:53					Near Nicaragua.  Distance:—
			K	e)2:57:12					
			L						
			M						
			C						
			F						
Jan 23	G-W	XX	iP	07:31:23					34° (S-P) 2345 mi. Near Aleutian Is.
	G-W		iS	07:36:50					
	G-W		iL	07:40:57					
			M						
			C						
	G-W		F	10:23					



			F	
Jan	G-W	XX	iP	07:31:23
23	G-W		is	07:36:50
	G-W		iL	07:40:57
			M	
			C	
	G-W		F	10:23
		N-S	P	
			S	
			L	
			M	
			C	
			F	
		E-W	P	
			S	
			L	
			M	
			C	
			F	
		V	P	
			S	
			L	
			M	
			C	
			F	

34° (S-P) 2345 mi.  
Near Aleutian Is.



Distance:—

- Minor Seismic Shocks:  
 Jan 3 (05:45:32)  
           (18:43:00)  
 Jan 4 (17:16:20-17:27:40)  
 Jan 8 (02:35-02:36)  
 Jan21 (00:10+00:12)  
 Jan22 (15:44-16:03)  
 Jan 31 (18:28-18:52)

The International Seismological Centre is a non-profit organization...  
 established in 1973...  
 The Centre is located at the British Library...  
 9 Euston Road, London NW1 2DB, UK.  
 Tel: +44 (0)20 7554 0801  
 Fax: +44 (0)20 7554 0802  
 Email: info@isc.ac.uk  
 Website: www.isc.ac.uk



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DATE	CHAR. Instr.	COMP.	PHASES.	TIME			PERIOD s.	AMP. m. m.	REMARKS
				h.	m.	s.			
Feb	G-W	<del>Wick</del>	<del>ENZ</del>	17:14:34				(P-H) 47.6° 3285 mi.	
22	G-W	Wick	eS E	17:21:36				Aleutian Islands.	
1935.			L						
			M						
			C						
	G-W		F	21:					
Feb	G-W	Wick	e/	01:47:30					
23	"	"	e/	01:48:45				San Diego, light shock	
	"	"	e/	01:49:06				Distance:— felt.	
	"	"	e/M	01:49:27					
			C						
			F						
		V	P						
			S					Minor Seismic Disturbances.	
			L					Feb 4 (18:02-18:31)	
			M					20 (11:41-11:55)	
			C					(19:31-19:32)	
			F					23 (04:11-14:25)	
		N-S	P						
			S						
			L						
			M						
			C						
			F						
		E-W	P					John A. Weber, S.J.	
			S					Ricard Observatory.	
			L						
			M					Distance:—	
			C						
			F						
		V	P						
			S						
			L						
			M						
			C						
			F						







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Galitzin-Wilip.

DATE	CHAR. Instr.	COMP.	PHASES.	TIME			PERIOD s.	AMP. m. m.	REMARKS
				h.	m.	s.			
March 22 1935.	Wick	N-S	iP S L M C F	23	29	41		Very small local quake.	
						23:29:54			
March 22	Wick	E-W	iP S L M C F	23	30	54		Second shock of above quake	
						23:31:12		Distance:—	
		V	P S L M C F					Minor Seismic Disturbances.	
		N-S	P S L M C F					March 13 (19:23-19:36) 14 (13:45-13:56) (16:07-17:05) 20 (23:39-00:00) 29 (13:06-14:03) 30 (02:56-03:09)	
		E-W	P S L M C F					John A. Weber, S.J. Ricard Observatory.	
		V	P S L M C F					Distance:—	







OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIFORNIA

May 14 1935	G-W	eP <sub>1</sub> Z	23:42:03	D (PR <sub>1</sub> -H) 125.2°
		ePR <sub>1</sub> ENZ	23:43:47	
		eSR <sub>1</sub> ENZ	24:00:30	
		F	01:00:	
16	G-W	eP <sub>n</sub> ENZ	03:25:52	D (Pn-Sn) 3.25°
		eP <sub>g</sub> ENZ	03:26:11	
		eS <sub>n</sub> EN	03:26:32	
		eS <sub>g</sub> EN	03:26:50	
		F	03:29:	
24	G-W	ePR <sub>1</sub> Z	05:54:12	D(PS-H) 100.8°
		eSPS <sub>N</sub>	06:01:04	
		ePSZ	06:03:31	
		eSR <sub>1</sub> Z	06:09:08	
		eL <sub>Z</sub>	06:23:55	
		F	08:00:	
30	G-W	ePR <sub>1</sub> NZ	21:52:27	D (PPS-H) 110.9°
		ePPS <sub>N</sub> Z	22:02:30	
		eSR <sub>2</sub> NZ	22:12:19	
		eL <sub>N</sub> Z	22:26:06	
		eM <sub>N</sub> Z	22:33:40	
		F	24:35:	



Minor Seismic shocks.

- May 1, (11:19-11:38)  
 2, (21:14-21:26)  
 12, (21:29-20:40)  
 14, (00:17-00:40)  
 16, (21:23-22:04)  
 17, (12:39-12:49)  
 18, (22:13-22:29)  
 19, (17:20-17:24)  
 20, (06:23-06:56)  
 21, (07:35-08:16)  
 (13:19-13:34 )  
 23, (18:34-18:41)  
 25, (00:57-01:13)  
 26, (22:51-23:41)  
 27, (03:51-04:39)

John C. Weber, S.J. Assistant.



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DATE	CHAR. COMP. Inst.	PHASES.	TIME			PERIOD s.	AMP. m. m.	REMARKS
			h.	m.	s.			
June 19	G-W <del>XXX</del> NS	eP	22	27	40			D(p-h) 88.2° 6085 mi.
		is e	22	38	14			
1935.		eL enz	22	55	38			
		M						
		C						
		F	23	40				
June 24	G-W <del>XXX</del> NS	iP enz	23	35	37			Distance:—
		iPcPenz	23	36	10			
		eL enz	24	01	59			
		eM enz	24	07	20			
		C						
		F	02	04				
June 28	G-W <del>XXX</del> NS	eP enz	19	44	32			Hilo, Hawaii.
		eP enz	19	45	18			
		eP enz	19	48	08			
		M						
		C						
		F	21	21				
June 29	G-W <del>XXX</del> NS	iP nz	06	54	18			D (P*H) 25° 1725 mi. Near Mexico City.
		iS n	06	58	45			
		L n	07	00	53			
		M N	07	04	00			
		C						
		F	8	54				
June 30	G-W <del>XXX</del> & Wick	eP ENZ	15	24	44			D (measured) 1.1° 125 mi. In Monterey Co., Calif
		iX ENZ	15	24	48			
		iX EMZ	15	25	00			
		M						
		C						
		F	15	26	09			
	V	P						Minor Shocks.
		S						
		L						
		M						
		C						

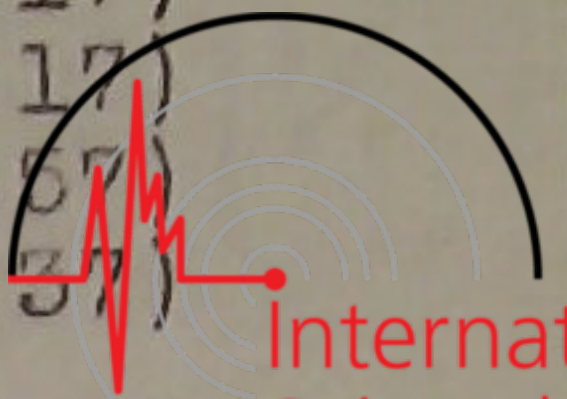
June 18 (04:15-04:17)  
(22:52-23:17)  
19 (10:56-10:57)  
25 (13:03-13:37)



		C	
		F	15:26:09
	V	P	
		S	
		L	
		M	
		C	
		F	
	N-S	P	
		S	
		L	
		M	
		C	
		F	
	E-W	P	
		S	
		L	
		M	
		C	
		F	
	V	P	
		S	
		L	
		M	
		C	
		F	

Minor Shocks.

June 18 (04:15-04:17)  
 (22:52-23:17)  
 19 (10:56-10:57)  
 25 (13:03-13:37)



International  
 Seismological  
 Centre

John A. Weber, S.J.  
 Ricard Observatory.

Distance: —

INTERNATIONAL SEISMOLOGICAL CENTRE  
 1964  
 JOHN A. WEBER, S.J.  
 RICARD OBSERVATORY  
 UNIVERSITY OF CALIFORNIA  
 RIVERSIDE, CALIFORNIA  
 U.S.A.



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DATE	CHAR.	COMP.	PHASES.	TIME			PERIOD	AMP.	REMARKS
				h.	m.	s.			
July 15 1935	G-W	<del>XX</del>	iP	14:33:56					
			S						
			L						
			M						
			C						
			F	14:38					
July 17	G-W	<del>XX</del>	eP	00:35:00					D (PR <sub>2</sub> -P) 90.8° 6269 mi.
	G-W		iPR <sub>2</sub>	00:41:00					Formosa,
			iPS	00:47:00					Distance:—
			M						
			C						
			F						
July 18	G-W	XX	iP	01:01:32					D (P-H) 79.8° 5505 mi.
			iS	01:10:48					Japan.
			L						
			M						
			C						
			F	02:40					
July 26	G-W	<del>XX</del>	eP	04:51:57					D (S-P) 45.7° 3155 mi.
			iS	04:58:43					
			eL	05:05:12					
			M						
			C						
			F	05:25					
July 27	G-W	<del>XX</del>	iPn	06:01:16					D (Pn-P*) 5.9° 412 mi.
			iP*	06:01:32					Los Angeles
			L						Distance:—
			M						
			C						
			F	06:12:31					
July 29	G-W	XX	iPhez	07:50:08				nz38mm	D(PθH) 72.2° 4980 mi.
			iPR <sub>1</sub>	07:52:49				nz20mm	
			iSnez	07:59:38				z14mm	
			M						
			C						
			F	10:18					







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				h.	m.	s.			
Aug 1. 1935.	G-W	NS	ePZ iSE L ?MZ C F	16:16:07	16:22:53			D(meas) $42.8^{\circ}$ 4760 km. Near Costa Rica.	
Aug 3.	G-W	EW	eEE eS L M C F	01:33:31	01:41:47			Distance:— (meas) $126^{\circ}$ 14,000 Km NW Near Sumatra	
Aug 17.	G-W	XX	ePZ iPE iSE eNEZ eNEZ F	01:57:17	01:57:27	02:07:57		D(meas) $84^{\circ}$ 9335 Km. D(S-H) $84^{\circ}$ at 0 depth. Near New Hebrides.	
Aug 21.	G-W	NS	iPENZ iSE L M C F	14:00:00	14:09:21				
Aug 22.	G-W	EW	iPNZ eSE iLEN M C F	20:39:02	20:45:33	20:54:26		Distance:—	
Aug 25.	G-W	XX	ePE S LE ME C F	5:26:00	5:36:13	5:39:18		Minor Seismic Disturbances.	
				6:09:					



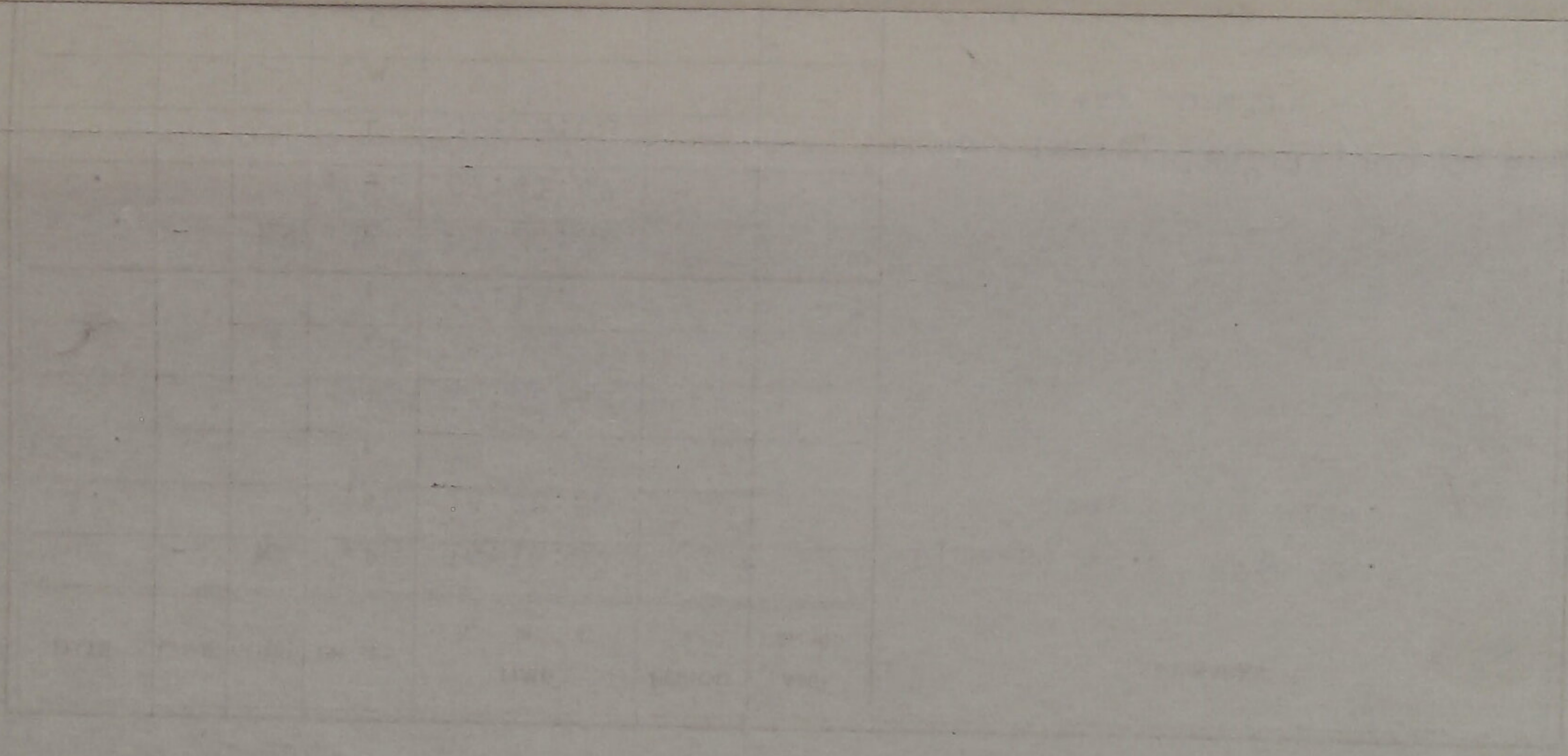
		C	
		F	6:09:
	N-S	P	
		S	
		L	
		M	
		C	
		F	
	E-W	P	
		S	
		L	
		M	
		C	
		F	
	V	P	
		S	
		L	
		M	
		C	
		F	

Minor Seismic Disturbances.

- Aug. 1 (14:55-15:03)  
 4 (12:39-02:49)  
 5 (14:17-14:45)  
 6 (00:32-00:44)  
 7 (09:19-09:42)  
 11 (07:52-08:15)  
 15 (14:35-15:14)  
 20 (00:18-00:25)  
     (23:43-23:54)  
 21 (09:42-09:59)  
 Distance: 24 (09:41-09:44)  
 26 (13:02-13:25)  
 28 (02:35-02:44)  
 31 (17:59-18:44)



International  
Seismological  
Centre



The International Seismological Centre is a non-profit organization...  
 established in 1963...  
 The Centre is located in Thessaloniki, Greece...  
 Its main objective is to coordinate and promote international...  
 seismicity research...  
 The Centre is a member of the International Geophysical...  
 Association...  
 For more information, please contact the International...  
 Seismological Centre...





1935. September		G.M.T.		
4	G-W	ePZ eSNZ eLE MZ F	1:34:19 1:39:38 1:44:06 1:47:48 3:40:	D (P-H) 31.7°
8	G-W	iPnNZ iSnE	14:44:06 14:45:25	D (P-S) 6.8°
8	G-W	iPnEZ P*EN iSnE	17:07:28 17:07:43 17:08:41	D (Pn-Sn) 6.2°
10	G-W	eEN eE iE F	6:35:48 6:37:00 6:44:00 6:55:	
10	G-W	eE eEZ eENZ F	7:06:28 7:17:50 7:18:29 7:36:	
10	G-W	eE eN F	7:38:47 7:47:32 7:57:	
11	G-W	ePNZ eSEN eLENZ F	11:58:13 12:08:32 12:28:18 13:30:	D (S-P) 84.6°
11	G-W	iPENZ iSENZ F	14:14:41 14:23:32 18:00:	D meas 65.4° D (S-P) 65.4°
12	G-W	eE eZ eLZ eMZ F	11:38:44 11:57:20 11:58:18 12:12:00 13:00:	
15:	G-W	iPZ eSE eLZ F	14:19:36 14:28:16 14:38:52 16:30:	D (S-P) 66° Depth 110 km.
18	G-W	iPZ iSZ eLZ eZ F	5:07:13 5:14:43 5:21:53 5:26:36 5:41:	D (S-P) 52.2° Normal depth.
18	G-W	iPZ eLE F	8:35:00 8:58:00 9:01:00	
19	G-W	eE eE eLE F	2:51:34 2:56:22 3:08:36 4:03:	
20 20	G-W	ePZ eSKSENZ eSENZ eLENZ F	2:00:17 2:10:54 2:11:51 2:30:34 5:40:	D (P-H) 98.2° Normal Depth.
20:	G-W	iPR1Z eSZ eLZ F	5:40:32 5:48:06 6:07:03 8:24:	D (PR1-H) 92.8° Normal depth.





20	G-W	e <sub>EZ</sub>	21:30:40	
		e <sub>EZ</sub>	21:35:28	
		e <sub>LEZ</sub>	21:47:24	
		F	22:45:	
23	G-W	eP <sub>ez</sub>	9:31:41	D meas 94.5°
		ePR <sub>1EZ</sub>	9:35:36	D (PR <sub>1</sub> -H) 94.7°
		eSK <sub>SE</sub>	9:42:21	
		e <sub>LEZ</sub>	10:01:55	
		F	12:15:	
24;	G-W	iP <sub>ENZ</sub>	22:15:27	D (P-H) 12.9°
		eS <sub>ENZ</sub>	22:17:56	D (S-P) 12.5°
		e <sub>LEZ</sub>	22:19:10	Normal depth.
		F	24:22:	
25	G-W	eP <sub>Z</sub>	10:33:04	
		e <sub>Z</sub>	10:36:46	
		e <sub>E</sub>	10:37:10	
		e <sub>LE</sub>	11:04:10	

Minor Seismic Shocks.

Sept 10, (23:55-23:58)  
 12, (10:07-10:19)  
 14, (21:11-21:22)  
 15, (07:00-07:14)  
 24, (05:45-06:10)  
 (08:35-08:49)  
 (09:12-09:14)  
 (14:52-15:06)  
 26, (02:12-02:19)  
 (02:53-03:24)  
 (03:43-03:49)  
 (22:56-23:39)  
 27, (13:55-14:07)  
 30, (19:30-19:49)

John C. Weber, S.J., Assistant.



OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIFORNIA



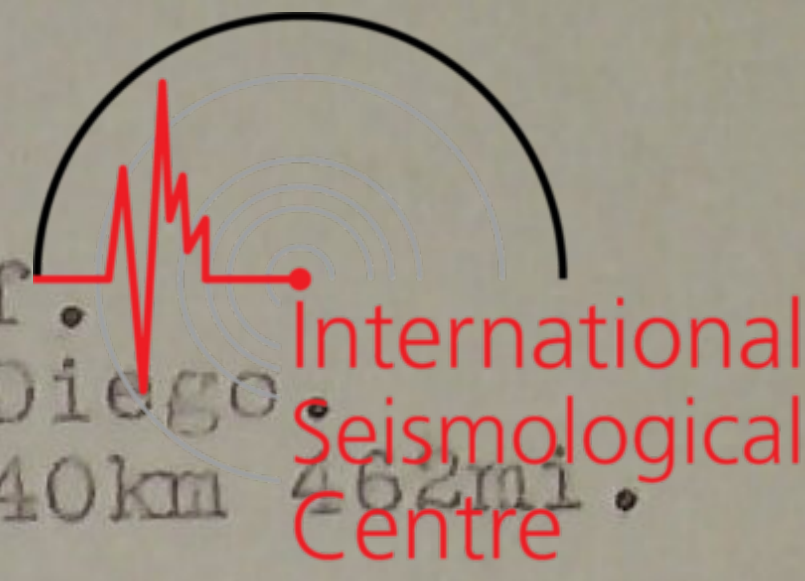
October 1935.					
2	G-W	iP <sub>EZ</sub> iS <sub>EN</sub> F	5:43:47 5:52:36 6:47:	Near Japan. H 5h 33m 6s E 43.8° 146.5°E Depth 80 km. D (S-P) 67.4° 7490km 4650mi.	
4	G-W	e <sub>E</sub> eL <sub>E</sub> F	5:39:02 5:42:58 6:04:		
11	G-W	eP <sub>ez</sub> e <sub>E</sub> eL <sub>E</sub> F	22:33:38 22:40:00 22:58:32 24:46:		
12	G-W	eP <sub>nz</sub> F	7:56:48 8:08:	Helena, Montana. D 11.9° 1320km 820mi.	
12	G-W	eP <sub>enz</sub> eS <sub>KSENZ</sub> eS <sub>Z</sub> eL <sub>Z</sub> F	16:56:47 17:05:48 17:05:55 17:18:04 19:35:	Island of Yezzo, Japan. E 43°N 144°E H 16h 45m 44s D (P-H) 69.2° 7690km 4775mi.	
18	G-W	eP <sub>ENZ</sub> eS <sub>NZ</sub> eL <sub>N</sub> F	0:23:21 0:32:28 0:42:00 3:50:	Japan? H (Pasadena) 00:11.9 D (P-H) 73.1° 8120km 5040mi.	
18	G-W	iP <sub>ENZ</sub> i <sub>E</sub> i <sub>E</sub> iL <sub>E</sub> iM <sub>E</sub> F	11:18:16 11:29:36 11:30:00 12:16:02 12:18:07 13:01:		
18	G-W	eP <sub>N</sub> eS <sub>E</sub> eL <sub>E</sub> F	15:05:27 15:14:17 15:24:54 16:28:		
19	G-W	eP <sub>N</sub> iS <sub>N</sub> iL <sub>EN</sub> iM <sub>ENZ</sub> F	4:50:55 4:53:17 4:53:32 4:54:25 6:02:	Destructive at Helena, Mont UXCGS 46.6°N 112°W H 4h 48m 3s D (P-H) 11.9° 1320km 820mi.	
24	G-W	eP <sub>nNZ</sub> iS <sub>nNZ</sub> F	14:49:48 14:50:50 15:08:	Mill Creek Fault, So. Calif D (Pn-Sn) 5.2° 580km 362mi.	
25	G-W	eP <sub>EZ</sub> eS <sub>E</sub> eL <sub>N</sub> eM <sub>EN</sub> F	0:05:29 0:16:04 0:30:28 0:31:46 1:10:		
25	G-W	iP <sub>nENZ</sub> iS <sub>nENZ</sub> F	20:56:26 20:56:32 21:02:	Local. Felt at Gilroy, Santa Santa Clara. D (Pn-Sn) .5° 50km 31mi	



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October contd. 1935.

29	G-W	ePZ eSZ eMZ F	10:19:30 10:20:48 10:21:48 10:59:	Off Lower Calif. Felt at San Diego D (P-S) 6.7° 740km 462mi.
31.	G-W	ePE eLENZ iLENZ F	18:40:04 18:42:59 18:44:04 19:39:	Destructive Helena, Mont. USCGS 46.6°N 112°W H 18h 37m 8s D (L-H) 11.9° 1320km 820mi



Minor shocks, Unclassifiable.

Oct 6 (05:19-05:50)  
 7 (05:16-05:33)  
 8 (10:17-10:30)  
 9 (22:38-23:03)

Fore and After shocks of Local quake of 25th.

25 (19:44-19:45)  
 (20:44-20:45)  
 (21:41-21:45)  
 26 (10:46-;0:49)

John C. Weber, S.J. Assistant.



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November 1935.

1	G-V	ePZ oSEN oLEN iME F	6:09:56 6:15:14 6:19:33 6:21:56 7:15:	Canada. JSA 46.6°N 79.3°W D (S-P) 31.8° 3533km H 6h 3m 87s
4	G-V	oPSENZ iSGN F	3:57:26 3:58:46 4:09:	Vicinity of Aguanga, felt over So Calif. E 33.5°N 116.9°W D (S-P) 6.1° 680km 425mi H 3h 55m 20s
5	G-V	oLE F	10:20:40 10:37:	
4	G-V	iPEN oLEN iME F	13:56:51 14:01:55 14:02:26 14:25:	
10	G-V	ePZ oLN F	18:37:24 18:56:14 19:16:	Destructive at Plymouth, Montserrat, B.V.I. USCGS 16.7°N 62.2°W H 18h 27m 30s D (P-H) 58.7° 6520km
14	G-V	iPEZ eSE oLE F	20:09:44 20:20:32 20:38:00 21:13:	D (S-P) 88.6° 9845km 6117 H 19h 56m 53s
23	G-V	ePN eSE eLE F	8:01:26 8:08:45 8:16:54 8:53:	Off coast of Ecuador. USCGS 1°N 86°W D (P-S) 50.5° 5610km H 7h 52m 29s
30	G-V	iPENZ iSEN iSRIN iMNZ F	3:48:21 3:55:22 3:58:18 4:07:00 4:55:	Felt in Panama. USCGS 10.1°N 79.5°W D (S-P) 47.6° 5990km H 3h 39m 46s

Minor shocks, unclassifiable.

Nov 1 (17:16-17:57)  
5 (10:20-10:28)  
6 (13:55-14:05)  
17 (08:18-08:33)  
26 (13:56-14:06)  
(14:35-14:47)  
28 (14:48-14:52)

John C. Weber, S.J.



OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIFORNIA



December 1935.

3	G-VI	oLEN iMEN F	2:24:53 2:25:17 2:35:	
3	G-VI	oL <sup>EN</sup> iM <sup>EN</sup> F	6:01:58 6:02:18 6:12:	
5	G-VI	ePZ eSZ eME F	18:02:34 18:12:53 18:25:20 18:59:	D (P-S) 82.6° H 17h 50m 13s
14 9	G-VI	eP <sub>Z</sub> eS <sub>Z</sub> eL <sub>Z</sub> eM <sub>Z</sub> F	7:44:56 8:00:04 8:19:54 8:27:43 9:44:	D (S-P) 30.3° H 7h 38m 41s
14	G-VI	ePENZ iSENZ F	1:41:12 1:49:18 2:15:	Colombia, S.A. JSA E 5.5°S 73.3°W D (S-P) 58° H 1h 31m 23s
14	G-VI	iPN ipPZ iSZ iSR2Z iLZ F	22:12:07 22:12:14 22:17:50 22:20:26 22:24:08 23:59:	Off coast of Central Am. USCGS E 14°N 92.5°W D (S-P) 35.3° Depth abt 20 km H 22h 5m 9s
15	G-VI	iPZ ipPZ eSZ ePSSPZ eLZ F	7:20:33 7:21:00 7:31:37 7:35:10 7:49:20 10:05:	Coral Sea. USCGS E 12.5°S 161°E D (S-P) 93° H 7h 7m 21s Depth abt 1201m
20	G-VI	iP* <sub>E</sub> iS* <sub>Z</sub> F	7:48:56 7:50:10 7:59:	Imperial Valley (Pas Bul) E 33.2°N 115.5°W D (P-S) 5.9° H 7h 47m 10s
20	G-VI	iP <sub>Z</sub> ePS <sub>Z</sub> eL <sub>Z</sub> F	18:49:41 19:01:31 19:21:55 19:59:	D (PS-P) 91.1° H 18h 36m 38s
21	G-VI	iPENZ eLN F	11:58:02 12:09:36 12:26:	D (P-L) 39° H 11h 50m 35s
24	G-VI	ePENZ eSENZ eLENZ	12:33:27 12:41:12 14:01:	D (S-P) 54.7° H 12h 24m 1s
28	G-VI	eP' <sub>Z</sub> ePR1Z ePSZ eSR1Z eLZ F	2:54:42 2:56:35 3:06:33 3:13:30 3:35:10 4:29:	West of Sumatra. USCGS E 3°S 97°E D (P'-PR1) 127° H 2h 35m 36s

Minor shocks, unclassifiable.  
Dec 21 (07:41-07:49)  
30 (00:37-00:59)

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Assistant.