

A. W. Forstall, S.J.

1926

No. 2

RECORD

of the

EARTHQUAKE STATION, REGIS COLLEGE,

Denver, Colorado, U.S.A.

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Cr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 20 Kg., a static, horizontal pendulum.
 Nomenclature: International

	Period.		Magnif.	Damping
E. W.	4.5	E. W.	107	3
N. S.	4.5	N. S.	107	3.5

FROM February 1st TO March 10th

Date	Char	Phase	Time			Period s.	Amplitude		Remarks
			h.	m.	s.		A _N mm.	A _E	
15	IIn	eP _E	3	5	30				Very small amplitude and period, not very clear. 1. Salvador C.A.
		eP _N	3	6					
		eS _E	3	9	30				
		eS _N	3	12					
		L _N	3	17		2			
		L _E	3	18		2			
		C _E	3	30			1.		
		C _N	3	32					
March 10	Iv	F _N	3	45					Possibly yielding of fault in Sharon springs, Kansas Entirely local.
		F _E	3	48					
		L _N	15	18		?	2		
		L _E	15	18				2	
		F _N	15	20					
		F _E	15	20					

Director
 A. W. Forstall, S.J.

1926

No. 3.

RECORD
 of the
 EARTHQUAKE STATION, REGIS COLLEGE
 Denver, Colorado, U. S. A.

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Gr. Latitude: 39° 43' 38" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., astatic, horizontal pendulum.
 Nomenclature: International.

Period	Magnif.	Damping
E.W. 4.5	E.W. 107	3
N.S. 4.5	N.S. 107	3.5

FROM March 10th TO March 31st

Date	Char.	Phase	Time			Period s.	Amplitude		Remarks
			h.	m.	s.		A _N mm.	A _E	
17	Ir.	PE	12	1					Caribbean Sea quake.
		SE	12	7					
		SN	12	1	30				
		SN	12	6	30				
		LE	12	14		7.5		1.5	
		LN	12	14		8.5	2.5		
		CE	12	22					
		CN	12	24					
18	Iu	FE	12	37					Asia Minor quake, lost while chang- ing blank.
		FN	12	40					
27	Iu	L	14	?					North Solomon Is- lands. All phases before L very doubt- ful. Hardly any record on N-S.
		SR ^{LE}	11	41					
		FE	11	46		30		1	
		FE	11	57					

Director

A. W. Forstall, S.J.

1963

1963

1963

1963

1963

1963

1963

1963

Station	Time	Amplitude	Period	Frequency	Phase	Remarks
1	1963	1.2	0.8	1.2	1.2	1.2
2	1963	1.2	0.8	1.2	1.2	1.2
3	1963	1.2	0.8	1.2	1.2	1.2
4	1963	1.2	0.8	1.2	1.2	1.2
5	1963	1.2	0.8	1.2	1.2	1.2
6	1963	1.2	0.8	1.2	1.2	1.2
7	1963	1.2	0.8	1.2	1.2	1.2
8	1963	1.2	0.8	1.2	1.2	1.2
9	1963	1.2	0.8	1.2	1.2	1.2
10	1963	1.2	0.8	1.2	1.2	1.2
11	1963	1.2	0.8	1.2	1.2	1.2
12	1963	1.2	0.8	1.2	1.2	1.2
13	1963	1.2	0.8	1.2	1.2	1.2
14	1963	1.2	0.8	1.2	1.2	1.2
15	1963	1.2	0.8	1.2	1.2	1.2
16	1963	1.2	0.8	1.2	1.2	1.2
17	1963	1.2	0.8	1.2	1.2	1.2
18	1963	1.2	0.8	1.2	1.2	1.2
19	1963	1.2	0.8	1.2	1.2	1.2
20	1963	1.2	0.8	1.2	1.2	1.2
21	1963	1.2	0.8	1.2	1.2	1.2
22	1963	1.2	0.8	1.2	1.2	1.2
23	1963	1.2	0.8	1.2	1.2	1.2
24	1963	1.2	0.8	1.2	1.2	1.2
25	1963	1.2	0.8	1.2	1.2	1.2
26	1963	1.2	0.8	1.2	1.2	1.2
27	1963	1.2	0.8	1.2	1.2	1.2
28	1963	1.2	0.8	1.2	1.2	1.2
29	1963	1.2	0.8	1.2	1.2	1.2
30	1963	1.2	0.8	1.2	1.2	1.2
31	1963	1.2	0.8	1.2	1.2	1.2
32	1963	1.2	0.8	1.2	1.2	1.2
33	1963	1.2	0.8	1.2	1.2	1.2
34	1963	1.2	0.8	1.2	1.2	1.2
35	1963	1.2	0.8	1.2	1.2	1.2
36	1963	1.2	0.8	1.2	1.2	1.2
37	1963	1.2	0.8	1.2	1.2	1.2
38	1963	1.2	0.8	1.2	1.2	1.2
39	1963	1.2	0.8	1.2	1.2	1.2
40	1963	1.2	0.8	1.2	1.2	1.2
41	1963	1.2	0.8	1.2	1.2	1.2
42	1963	1.2	0.8	1.2	1.2	1.2
43	1963	1.2	0.8	1.2	1.2	1.2
44	1963	1.2	0.8	1.2	1.2	1.2
45	1963	1.2	0.8	1.2	1.2	1.2
46	1963	1.2	0.8	1.2	1.2	1.2
47	1963	1.2	0.8	1.2	1.2	1.2
48	1963	1.2	0.8	1.2	1.2	1.2
49	1963	1.2	0.8	1.2	1.2	1.2
50	1963	1.2	0.8	1.2	1.2	1.2
51	1963	1.2	0.8	1.2	1.2	1.2
52	1963	1.2	0.8	1.2	1.2	1.2
53	1963	1.2	0.8	1.2	1.2	1.2
54	1963	1.2	0.8	1.2	1.2	1.2
55	1963	1.2	0.8	1.2	1.2	1.2
56	1963	1.2	0.8	1.2	1.2	1.2
57	1963	1.2	0.8	1.2	1.2	1.2
58	1963	1.2	0.8	1.2	1.2	1.2
59	1963	1.2	0.8	1.2	1.2	1.2
60	1963	1.2	0.8	1.2	1.2	1.2
61	1963	1.2	0.8	1.2	1.2	1.2
62	1963	1.2	0.8	1.2	1.2	1.2
63	1963	1.2	0.8	1.2	1.2	1.2
64	1963	1.2	0.8	1.2	1.2	1.2
65	1963	1.2	0.8	1.2	1.2	1.2
66	1963	1.2	0.8	1.2	1.2	1.2
67	1963	1.2	0.8	1.2	1.2	1.2
68	1963	1.2	0.8	1.2	1.2	1.2
69	1963	1.2	0.8	1.2	1.2	1.2
70	1963	1.2	0.8	1.2	1.2	1.2
71	1963	1.2	0.8	1.2	1.2	1.2
72	1963	1.2	0.8	1.2	1.2	1.2
73	1963	1.2	0.8	1.2	1.2	1.2
74	1963	1.2	0.8	1.2	1.2	1.2
75	1963	1.2	0.8	1.2	1.2	1.2
76	1963	1.2	0.8	1.2	1.2	1.2
77	1963	1.2	0.8	1.2	1.2	1.2
78	1963	1.2	0.8	1.2	1.2	1.2
79	1963	1.2	0.8	1.2	1.2	1.2
80	1963	1.2	0.8	1.2	1.2	1.2
81	1963	1.2	0.8	1.2	1.2	1.2
82	1963	1.2	0.8	1.2	1.2	1.2
83	1963	1.2	0.8	1.2	1.2	1.2
84	1963	1.2	0.8	1.2	1.2	1.2
85	1963	1.2	0.8	1.2	1.2	1.2
86	1963	1.2	0.8	1.2	1.2	1.2
87	1963	1.2	0.8	1.2	1.2	1.2
88	1963	1.2	0.8	1.2	1.2	1.2
89	1963	1.2	0.8	1.2	1.2	1.2
90	1963	1.2	0.8	1.2	1.2	1.2
91	1963	1.2	0.8	1.2	1.2	1.2
92	1963	1.2	0.8	1.2	1.2	1.2
93	1963	1.2	0.8	1.2	1.2	1.2
94	1963	1.2	0.8	1.2	1.2	1.2
95	1963	1.2	0.8	1.2	1.2	1.2
96	1963	1.2	0.8	1.2	1.2	1.2
97	1963	1.2	0.8	1.2	1.2	1.2
98	1963	1.2	0.8	1.2	1.2	1.2
99	1963	1.2	0.8	1.2	1.2	1.2
100	1963	1.2	0.8	1.2	1.2	1.2

1963

1926

No. 4.

R E C O R D
 of the
 EARTHQUAKE STATION, REGIS COLLEGE,
 Denver, Colorado, U. S. A.

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Gr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg. a static, horizontal pendulum
 Nomenclature: International

	Period.	Magnif.	Damping.
E.W. 4.5	E.W. 107	3	
N.S. 4.5	N.S. 107	5	

FROM April 1st TO April 30th

Date	Char.	Phase	Time			Period s.	Amplitude		Dist.	Remarks
			h.	m.	s.		A _N m.m.	A _E m.m.		
12	Iu	ePR _{1E}	8	56	30				97°	New Hebrides Ilands quake
		PR _{2E}	8	59	00					
		PR _{1N}	9	0	0					
		SR _{1N}	9	14	30					
		L _{1N}	9	24	00	40				
		L _E	9	27	?	30				
		M _N	9	32	0	25	2	1.5		
		ME	?	?		30				
		CN	9	36						
		F	9	53	±					
19	Ir	P _N	15	17	41				10° 8'	Imperial Valley.
		S _N	15	19	45					
		L _N	15	23	30					
		M _N	15	25						
		F	15	34	±					

Director

A. W. Forstall, S.J.

251

О П О З Н А Н И Е

RECEIVED
JAN 10 1964
U.S. AIR FORCE
WASHINGTON, D.C.

Address: 1000 West
 Portland: 1000 West
 Time: 10:00 AM
 Instrument: 1000 West
 Name: 1000 West
 Address: 1000 West
 Portland: 1000 West
 Time: 10:00 AM
 Instrument: 1000 West
 Name: 1000 West

[illegible][illegible]

Director
A. W. Tolson
A. W. Tolson

1926

No. 5.

R E C O R D

of the

EARTHQUAKE STATION, REGIS COLLEGE,

Denver, Colorado, U. S. A.

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static. horizontal pendulum.

Nomenclature: International
 Magnif. Damping.

Period.
 E.W. 4.5
 N.S. 4.5

E.W. 107
 N.S. 107

3.
 3.5

FROM May 1st TO May 31st

Date	Char.	Phase	Time			Period s	Amplitude AN _{mm.} AE	Remarks
			h.	m.	s.			
31	I	P _N	24	49	20			Wavelets. Hardly more than thicken- ing of pen- marks. Possi- bly Montana quake. Very doubtful.
		F	24	53	⁺ ₋			

Director

A.W. Forstall, S.J.
 A.W.

RECORD

D E F G H

SECRET - INFORMATION TO BE KEPT SECRET

Longitude: 106° 40' W. Latitude: 25° 40' N.
 Time: 10:00 PM. Date: 10/10/1964.
 Location: 106° 40' W. 25° 40' N.
 Depth: 1000 m. 1000 m.
 Species: 1000 m. 1000 m.
 Count: 1000 m. 1000 m.
 Notes: 1000 m. 1000 m.

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

... ..

MAY 1957

1908

139

1942

— 49 —

22

139

1990

6. 2001

... ..

11-11-11

OTOM-VI 18H

— 1990 —

—ed to act

1809 42/60

1947-1948

13-5496

224-15

100

[illegible]

1926

No. 6.

RECORD

of the

EARTHQUAKE STATION, REGIS COLLEGE,

Denver, Colorado, U.S.A.

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 30Kg., a static. horizontal pendulum.

Nomenclature: International

 Period
 E.W. 4.5
 N.S. 4.5

 Magnif.
 E.W. 107
 N.S. 107

 Damping
 3.
 3.5

FROM June 1st to June 30th

Date	Char.	Phase	G.M. Time			Period	Amplitude		Remarks
			h.	m.	s.	s.	A_E	A_N	
5	I Ir	eP _E	19	53	35				$\Delta=15.1 =$ 1680 Km. Off coast of Northern California
		eP _N	19	53	37				
		iP _{EN}	19	53	40				
		PR _{1N}	19	53	46				
		PR _{2EN}	19	53	49				
		PR _{3N} (?)	19	53	53				
		iS _N	19	56	28				
		SR _{2N}	19	57	00				
		eL _E	19	58	34	6			
		iL _{EN}	19	59	00	7			
		M _N	19	59	30	6		9	
		M _{1EN}	20	00	12	8	9	57	
		M _{2EN}	20	00	57	12	46	71	
		M _{3EN}	20	01	55	8	28	57	
		M _{4EN}	20	03	00	7	33	70	

1926

No. 6



From the ISC collection scanned by SISMOS

R E C O R D

of the

EARTHQUAKE STATION, REGIS COLLEGE,

From June 1st to June 30th (Cont'd)

Date	Char	Phase	G. M. Time			Period s.	Amplitude		Remarks
			h.	m.	s.		A_E	A_N	
26	IIu	i_E	20	00	11				$\Delta = 84.3 = 9370\text{Km.}$ Reported from Crete and Malta
		i_N	20	00	14				
		i_N	20	01	15				
		$PR_{1N(?)}$	20	02	35				
		$PR_{1E(?)}$	20	02	36				
		i_N	20	04	21				
		PR_{2N}	20	04	50				
		i_N	20	06	25				
		PR_{3N}	20	06	34				
		i_N	20	07	46				
		i_N	20	08	45				
		iS_{EN}	20	09	58				
		i_N	20	10	05	6		23	
		i_N	20	10	12	6		34	
		i_N	20	10	17	8		64	
		i_N	20	10	24	5		25	
		i_N	20	10	30	5		32	
		iPS_N	20	10	52				
		iNE	20	11	00	6	22	23	
		i_N	20	11	05				
		i_N	20	12	00				
		i_N	20	14	39				
		SR_1	20	16	14				
		$SR_2(?)$	20	19	31				
		i_N	20	22	08				
		i_N	20	22	44				
		L_N	20	26	44				
		M	20	32	$\pm$				
		M_1	20	41	04	17		23	
		F	21	05	$\pm$				

1926

No. 7

RECORD

of the

EARTHQUAKE STATION, REGIS COLLEGE,

Denver, Colorado, U. S. A.

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature: International

Period

E.W. 4.3

N.S. 4.3

Magnification

E.W. 110

N.S. 96

Damping

5.1

4.7

Determined

August 11

FROM July 1st

TO July 31st

Date	Char.	Phase	G. M. Time			Period			Amplitude	Remarks
			h.	m.	s.	s.				
25	Iv	eP _{II}	18	00	15					Hardly anything recorded on E-W component, and on N-S too weak to be accurately analyzed.
		eS _{II}	18	01	45					
		iL _{II}	18	02	30					
		F _{II}	18	07	00					

No earthquake that could be safely analyzed was recorded during August.

1926

No. 8

RECORD

of the

EARTHQUAKE STATION, REGIS COLLEGE,

Denver, Colorado, U. S. A.

Altitude: 1655 Met.
Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature: International

Period	Magnification	Damping
E.W. 4.3	110	5.1
N.S. 4.3	96	4.7

FROM September 1st TO September 30th

Date	Char.	Phase	G. M. Time			Period s.	Amplitude			Remarks
			h.	m.	s.		A_E	μ	A_H	
16	Iu	eP _E ?	18	12	22					Epicenter between the New Hebrides and Solomon Islands.
		P _E	18	12	34	2	2			
		PR _{1E}	18	16	32	2	2			
		PR _{2E} ?	18	18	40	4	1			
		PR _{3E} ?	18	20	22					
		S _C P _C S	18	23	16	8	7			
			18	23	40	9	8			
		S _E	18	24	16	6	2			
		PS _E	18	25	25	9	4			
		PPS _{EH}	18	26	16	8	5			
		L _H	18	39	30	52				
		M _H	18	43	27	22			26	
		M _E	18	47	41	24	18			
		M _{LN}	18	50	30					
		M _{LE}	18	52	10					
		M _{EH}	18	55	04	18	198		84	
		F _E	19	37 [±]						

1926

No. 9

 Record of the
 EARTHQUAKE STATION, REGIS COLLEGE,
 Denver, Colorado, U.S.A.

October 1st to October 31st (Cont'd)

Date	Char	Phase	G.M. Time h. m. s.	Period s.	Amplitude			Remarks
					A _E	μ	A _N	
26	Cont'd IIu	iL _{EN}	4 24 00	34	40			
		L _{1N}	4 31 00					
		eM _{EN}	4 37 30					
		M _{1E}	4 40 00	22	42			
		M _{2E}	4 45 00					
		M _{3E}	4 49 00	17	2			
		F	5 20 [±]					
26	Iu	eL _{EN}	5 37 00					
		L _{EN}	5 46 00					
		eM _{EN}	5 57 00					
		M _{1EN}	6 02 00					
		M _{2EN}	6 10 00					
		F	6 26 [±]					
26	Iu	L _E	7 08 00					
		M _E	7 14 00					
		F	7 42 [±]					
30	IIr	iP _N	19 47 04					Queen Charlotte Island. Δ=21°4= 2380 km.
		eP _E	19 47 04					
		iPR _{2N}	19 47 28					
		iS _N	19 50 54					
		eS _E	19 51 00					
		eSR _{1N}	19 51 47					
		iL _N	19 53 28					
		iM _N	19 55 17					
		M _{1N}	19 56 11	9		156		
		F	20 00 [±]					

1926

No. 10

RECORD
of the
EARTHQUAKE STATION, REGIS COLLEGE,
Denver, Colorado, U.S.A.

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature: International

Period	Magnification	Damping
E.W. 4.3	110	5.1
N.S. 4.3	96	4.7

FROM November 1st TO December 31st

Date	Char.	Phase	G.M. Time			Period s.	Amplitude			Remarks
			h.	m.	s.		A _E	μ	A _N	
Nov. 1	Iir	iP _{EN}	1	44	37					In Pacific off Puget
		i _{EN}	1	44	49					Sound.
		i _{EN}	1	45	04					Δ = 21° = 2330 Km.
		i _{EN}	1	45	16					
		e _{SN}	1	48	24					
		i _{SEN}	1	48	25	6			-29	
		e _E	1	48	53					
		e _{LEN}	1	50	26	21			-215 +245	
		i _{ME}	1	52	14	14			-390	
		i _{MN}	1	52	24	8			+57	
		M _{LN}	1	53	41	9			-256	
		F	2	53	±					
Nov. 5	Iir	eP _{EN}	8	02	46					Nicaragua
		iP _{EN}	8	02	51					Δ = 31° = 3440 Km.
		e _{EN}	8	03	16					
		e _{EN}	8	03	48					
		e _{SN} (?)	8	07	42					
		i _{SE}	8	07	44	6			-20	
		i _E	8	08	36					
		i _N	8	09	00					
		L _E	8	09	22					
		L _N	8	09	52					
		i _{MN}	8	11	00					
		i _{ME}	8	11	19					
		M _{LE}	8	11	34	7			+113	
		F	9	22	±					

NO. 10

1928

STATION NO. 10

EARTHQUAKE STATION NO. 10
Denver, Colorado, U.S.A.

Longitude: 104° 52' W. Latitude: 39° 40' N.
Time: Mean Greenwich, 1928
Instrument: Weichert 80 K. & static horizontal pendulum.
Name: International

Period
E.W. 4.5
E.S. 4.5
FROM November 1st TO December 1st

Date Chart. Time. Period. Amplitude. Remarks

Date	Chart	Time	Period	Amplitude	Remarks
Nov. 1	11	11:11	1.4	1.4	
	11	11:12	1.4	1.4	
	11	11:13	1.4	1.4	
	11	11:14	1.4	1.4	
	11	11:15	1.4	1.4	
	11	11:16	1.4	1.4	
	11	11:17	1.4	1.4	
	11	11:18	1.4	1.4	
	11	11:19	1.4	1.4	
	11	11:20	1.4	1.4	
	11	11:21	1.4	1.4	
	11	11:22	1.4	1.4	
	11	11:23	1.4	1.4	
	11	11:24	1.4	1.4	
	11	11:25	1.4	1.4	
	11	11:26	1.4	1.4	
	11	11:27	1.4	1.4	
	11	11:28	1.4	1.4	
	11	11:29	1.4	1.4	
	11	11:30	1.4	1.4	
	11	11:31	1.4	1.4	
	11	11:32	1.4	1.4	
	11	11:33	1.4	1.4	
	11	11:34	1.4	1.4	
	11	11:35	1.4	1.4	
	11	11:36	1.4	1.4	
	11	11:37	1.4	1.4	
	11	11:38	1.4	1.4	
	11	11:39	1.4	1.4	
	11	11:40	1.4	1.4	
	11	11:41	1.4	1.4	
	11	11:42	1.4	1.4	
	11	11:43	1.4	1.4	
	11	11:44	1.4	1.4	
	11	11:45	1.4	1.4	
	11	11:46	1.4	1.4	
	11	11:47	1.4	1.4	
	11	11:48	1.4	1.4	
	11	11:49	1.4	1.4	
	11	11:50	1.4	1.4	
	11	11:51	1.4	1.4	
	11	11:52	1.4	1.4	
	11	11:53	1.4	1.4	
	11	11:54	1.4	1.4	
	11	11:55	1.4	1.4	
	11	11:56	1.4	1.4	
	11	11:57	1.4	1.4	
	11	11:58	1.4	1.4	
	11	11:59	1.4	1.4	
	11	12:00	1.4	1.4	

NOVEMBER 1928

8 02 45

8 02 51

8 03 16

8 03 42

8 07 42

8 07 44

8 07 36

8 09 00

8 09 32

8 09 32

8 11 00

8 11 00

8 11 30

8 11 30

8 11 30

8 11 30

8 11 30

1927

RECORD

No. 1

of the
EARTHQUAKE STATION, REGIS COLLEGE
Denver, Colorado.

Altitude: 1655 Met.
Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature: International

Period Magnification Damping
E. W. 4.3 110 5.1
N. S. 4.3 96 4.7

FROM January 1st TO March 31st

Date	Char.	Phase	G. M. Time h. m. s.	Period s.	Amplitude A _E μ A _N	Remarks
Jan. 19	Iv	eE iEN iE iEN LE F	1 26 19 1 26 47 1 27 28 1 28 39 1 29 26 1 33 [±]			
Jan. 24	Iu	eE ? eN ? ScPcSE SE LEN ME F	1 22 07 1 22 31 1 28 26 1 29 31 1 51 00 2 03 00 2 57 [±]			Epicenter near the New Hebrides Is. according to U.S. Coast and Geodetic Survey; placed on Ambrym Is. (16S, 163E) by Apia.
Feb. 1	IIv	eN ? iN iN iN F	20 21 48 20 22 00 20 22 06 20 22 36 20 28 [±]			
Feb. 1	IIv	eN iN iN F	21 18 24 21 18 32 21 18 54 21 25 [±]			
Feb. 2	IIv	eN iN iN F	1 03 00 1 03 23 1 03 31 1 05 [±]			
Mar. 7	Iu	ePE ScPcSE eSE SR1E eLE eME M1E F	9 40 28 9 50 17 9 51 05 9 57 06 10 07 18 10 17 27 10 18 36 11 32 [±]			Tango District Japan.

1927 RECORD No. 2

 of the
 EARTHQUAKE STATION, REGIS COLLEGE
 Denver, Colorado

Longitude: $104^{\circ} 56' 54''$ W. Fr. Altitude: 1655 Met. Latitude: $39^{\circ} 40' 36''$ N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature: International

Period
 F. W. 4.3
 N. S. 4.3

Magnification
 110
 96

Damping
 5.1
 4.7

FROM May 1st TO June 31st

Date	Char.	Phase	G. M. Time h. m. s.	Period e n z	Amplitude AE AN AZ	Remarks
May 22	IIu	oP _E (?) eE ePR ₁ E eE eN eE eE eN eE iEN eEN eE eN LE ME M ₁ E M ₂ E F	22 45 32 22 46 02 22 49 29 22 53 14 22 56 11 22 56 22 22 56 46 22 56 48 22 57 13 22 57 19 23 03 49 23 07 05 23 07 38 23 14 00 23 23 00 23 24 03 23 27 35 25 49 ⁺			Very destruc- tive in Kansu, China. ^o $\Delta = 99.2 =$ 11020 Km.
June 4	I ?	eE (?) eE (?) eEN eEN oLEN F	17 28 25 17 32 06 17 40 23 17 43 00 17 46 14 17 57 ⁺			

1927

R E C O R D

No. 3

of the

EARTHQUAKE STATION, REGIS COLLEGE

Denver, Colorado

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature: International

 Period
 E.W. 4.3
 N.S. 4.3

 Magnification
 110
 96

 Damping
 5.1
 4.7

FROM July 1st TO November 30th

Date	Char.	Phase	G.M. Time h. m. s.	Period		Amplitude		Remarks
				E.	N.	A _E	A _N	
Oct. 24	IIIr	iM _{EN}	16 14					
		M _{1N}	16 15		6		1250	
		M _{2N}	16 17.5		8		2360	
		F	After 17h.	49m.				
Nov. 4	IIIr	eP _E	13 54 22					
		eP _N	13 54 24					
		iP _N	13 54 44		4			
		iP _E	13 54 46	8		65		
		i _E	13 55 04	6		173		
		i _E	13 55 11					
		i _N	13 55 40					
		i _E	13 55 54					
		i _E	13 56 46					
		iS _{EN}	13 57 06					
		i _{EN}	13 57 20					
		i _E	13 57 28	6		30		
		i _N	13 57 32					
		i _N	13 57 40		8		75	
		eL _N	13 58 06		10			
		eL _E	13 58 13	10				
		iM _E	13 59 12					
		iM _N	13 59 14					
		M _{1E}	13 59 52	6		1080		
		M _{2E}	14 00 30	8		2160		
		M _{3E}	14 01 02	6		1200		
		F	After 15h.	12m.				

1927 RECORD No. 4

 of the
 EARTHQUAKE STATION, REGIS COLLEGE
 Denver, Colorado.

 Altitude: 1655 Met.
 Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 30 Kg., a static horizontal pendulum.
 Nomenclature: International

	Period	Magnification	Damping
E.W.	4.3	110	5.1
N.S.	4.3	96	4.7

FROM July 1st TO November 30th

Date	Char.	Phase	G.M. Time h. m. s.	Period		Amplitude		Remarks
				E.	N.	A _E μ A _N		
Nov. 6	Ir	ePN	2 43 17					
		ePE	2 43 18					
		eSEN	2 46 04					
		eSR ₁ E	2 46 36					
		eLEN	2 47 30					
		iM ₁ EN	2 47 48					
		F	3 04 [±]					
Nov. 14	I	i ₁ EN	18 06 26					Probably seismic.
		i ₂ E	18 08 46					
		i ₃ EN	18 09 16					
		i ₄ EN	18 09 30					
		F	18 13 [±]					
Nov. 25	I	e ₁ E	19 44 29					
		i ₁ EN	19 44 31					
		i ₂ EN	19 45 24					
		i ₃ E	19 45 37					
		i ₄ EN	19 45 49					
		i ₅ E	19 47 55					
		i ₆ EN	19 48 22					
		F	19 50 [±]					

1927 RECORD No. 4

of the

EARTHQUAKE STATION, REGIS COLLEGE

Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature: International

Period
 E.W. 4.3
 N.S. 4.3

Magnification
 110
 96

Damping
 5.1
 4.7

FROM December 1st TO December 31st

Date	Char.	Phase	G.M. Time h. m. s.	Period e. n.		Amplitude		Remarks
						A _E	A _N	
Dec. 28	Iu	eP _N	18 31 10					Kamchatka 55° N 160° W. Preliminary determination of U.S. Coast and Geodetic Survey
		PR _{1N}	18 33 37					
		PR _{2N}	18 35 34					
		eS _E	18 39 34					
		iS _E	18 39 57					
		iE	18 40 00					
		iSR _{1EN}	18 43 39					
		eSR _{2E}	18 46 25					
		eSR _{2N}	18 46 33					
		LEN	18 49 49					
		L _{1E}	18 50 27		28		164	
		M _E	18 52 21					
		M _{1E}	18 52 51	26		400		
		M _N	18 53 27					
		F	19 51±					
Dec. 31	IIr	iEN	19 13 46					
		iEN	19 14 28					
		eEN	19 17 27					
		iN	19 17 56					
		iE	19 17 58					
		LE (?)	19 18 48					
		iM _E	19 19 44					
		iM _N	19 19 55					
		M _{1E}	19 20 03					
		F	19 52±					

RECORD
No. 4
of the

EARTHQUAKE STATION, REGIS COLLEGE
Durvet, Colorado

Location: 100° 35' N. 105° 35' W.
Instrument: Horizontal pendulum.
Name: International

Time: 10:10:35
Date: Dec 1951
Magnitude: 4.7

FROM December 1st TO December 31st

Date	Time	Period	Amplitude	Remarks
Dec 1 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 2 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 3 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 4 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 5 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 6 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 7 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 8 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 9 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 10 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 11 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 12 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 13 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 14 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 15 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 16 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 17 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 18 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 19 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 20 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 21 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 22 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 23 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 24 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 25 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 26 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 27 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 28 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 29 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 30 1951	10:10:35	10:10:35	4.7	Horizontal pendulum
Dec 31 1951	10:10:35	10:10:35	4.7	Horizontal pendulum

1928

RECORD

No. 1

of the

EARTHQUAKE STATION, REGIS COLLEGE

Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature: International

Period	Magnification	Damping
E.W. 4.3	110	5.1
N.S. 4.3	96	4.7

 FROM January 1st TO January 31st

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z			Amplitude AE AN		Remarks
Jan. 1	Ir	ePE?	9 31 12						Off southwest coast of Mexico
		eSN?	9 35 35						
		ME	9 38 26						
		M1E	9 38 43	11			360		A very long wave
		iLE	9 45 00	70			870		
		F	10 05±						
Jan. 6	Iu	eLE	20 33 00						Reported from Africa
		eME	20 38 00						
		M1E	20 45 00						
		M2E	20 45 53	21			104		
		F	20 21						

1954 10 1A

31. 10. 1951

10

Period

Figure 1. *Figure 1*

7-10

TABLE 10

1894

1907-1908

[Faint handwritten notes]

1895

718

100

1990

[Faint, illegible text]

100

100

Me

1944

716

25

1

Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
				e	n	z	A _E	A _N	A _Z	
Feb. 10	Ir	eP _{EN} eS _N ?	4 42 54 4 46 37							$\Delta = 20^{\circ}6$ Reported from Mexico.
Feb. 21	Iv	i _{EN} i _{EN} i _E i _{LN} i _{LE} F	20 49 53 20 49 57 20 49 58 20 49 58 20 50 02 20 50 46							
Feb. 21	Iu	iP _{EN} ? S _N S _E SR ₁ L _E M _N F	20 57 38 21 03 11 21 03 19 21 07 00 21 11 00 21 16 00 22 03 [±]							Arctic Ocean

Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
				e	n	z	A _E	A _N	A _Z	
March 9	Iu	eN	18 24 00							Indian Ocean South of the Bay of Bengal
		e _E	18 24 44							
		i _{EN}	18 26 24							
		i _{EN}	18 27 06							
		e _{EN} ?	18 30 00							
		e _{EN}	18 32 00							
		e _N	18 40 04							
		e _E	18 44 12							
		e _N	18 45 24							
		e _{EN}	18 50 36							
		i _N	18 54 00							
		L _{EN}	19 05 26							
		M _N	19 15 30							
		M _E	19 16 00							
		M _{1N}	19 28 00							
		M _{2N}	19 32 39							
		M _{3N}	19 34 28							
F	20 02 [±]									

CARPENTERS STATION, REGENT COLLEGE
 Denver, Colorado

Altitude: 1555 Meters
Longitude: 105° 10' W
Latitude: 19° 10' N
Remarks: A small stream flows through the area.
Location: West of the main road.
Name: West of the main road.

[illegible]

period

6: 1799

2. 2. 2.

5. 13. 22

4. 7

107

Date	Chart	Phone	Time	Printed	Amount	Remarks
March 15	10		10:00			
March 16	10		10:00			
March 17	10		10:00			
March 18	10		10:00			
March 19	10		10:00			
March 20	10		10:00			
March 21	10		10:00			
March 22	10		10:00			
March 23	10		10:00			
March 24	10		10:00			
March 25	10		10:00			
March 26	10		10:00			
March 27	10		10:00			
March 28	10		10:00			
March 29	10		10:00			
March 30	10		10:00			
March 31	10		10:00			

Date	Char.	Phase	G.M.Time h. m. s.	Period e n z	Amplitude AE AN AZ	Remarks
May 14	Iu	iPN	22 23 59			Destructive in northern Peru
		eP _E	22 23 59			$\Delta = 51.5^{\circ}$
		iEN	22 24 09			
		iPR ₂ EN	22 26 57			
		iSN	22 31 17			
		eSE	22 31 17			
		iSE	22 31 18			
		eSR ₁ EN	22 35 04			
		iN	22 37 20			
		iE	22 37 34			
		LEN	22 38 08			
		ME	22 42 57			
		F	Lost in changing record sheet			

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude A _E A _N A _Z	Remarks
July 9	Iu	e?	21 41 00			
		eS _E	21 49 55			
		e _E	21 56 00			
		eL _E	22 09 00			
		eM _E	22 15 35			
		F	22 52 [±]			
August 4	Iir	P?	18 31 30			
		i	18 32 16			
		iS	18 35 41			
		iSR ₁	18 36 45			
		L	18 38 00			
		M	18 39 00			
		F	End lost by	change	of	record
						Time uncertain. Acapulco Deep 14°N 98°W as determined by U.S. Coast and Geodetic Survey.

EARTHQUAKE STATION, WEST COLLEGE

Location: West College, Colorado
 Altitude: 1040 m
 Latitude: 39° 40' 30" N
 Longitude: 106° 55' 30" W
 Time: Mean Greenwich to midnight
 Instrument: Westcott 80 kg, electric horizontal
 Homogeneity: International

Period: 0.1 to 1.0 sec

E.W. 4.3
 N.S. 4.3

FROM July 1st TO August 31

Date	Time	Period	Amplitude	Remarks
------	------	--------	-----------	---------

July 9	10 00	0.1	1.0	Small earthquake
--------	-------	-----	-----	------------------

July 10	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 11	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 12	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 13	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 14	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 15	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 16	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 17	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

July 18	10 00	0.1	1.0	Small earthquake
---------	-------	-----	-----	------------------

1928 R E C O R D No. 7

of the

EARTHQUAKE STATION, REGIS COLLEGE

Denver, Colorado

Altitude: 1655 Met.
Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight
Instrument: Wiechert 80 Kg., a static horizontal pendulum
Nomenclature: International

Period
E.W. 4.3
N.S. 4.3

Magnification
110
96

Damping
5.1
4.7

FROM September 1st TO September 30th

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z			Amplitude A _E A _N A _Z			Remarks
Sept. 11	IIr	eP _E	12 40 07							
		eS _E ?	12 43 42							
		iM	12 46 00							
		F	14 00 [±]							
									Pacific Ocean off N. coast of California	
Sept. 22	Iu	eM	8 17 00							
		F	9 29 [±]							

1928 R E C O R D No. 8

of the

EARTHQUAKE STATION, REGIS COLLEGE

Denver, Colorado

FROM November 1st TO December 31st

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude A _E A _N A _Z	Remarks
Dec. 12	I	PR _{1E} SR _{1E} eL _E eM _E F	20 36 45 20 51 00 21 05 00 21 12 00 21 30 ±			Epicenter: 23°S. 175°E. Δ = 97°
Dec. 19	I	ePR _{1E} (?) ePR _{2E} ePPS _E eSR _{1EN} eSR _{2E} eSR _{3EN} eL _{EN} eM _{EN} F	11 56 48 11 59 39 12 07 31 12 12 49 12 17 16 12 21 00 12 24 00 12 33 00 13 30 ±			Southern Min- danao. Δ = 115°

1928 R E C O R D No.8

of the

EARTHQUAKE STATION, REGIS COLLEGE

Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature: International

Period	Magnification	Damping
E.W. 4.3	110	5.1
N.S. 4.3	96	4.7

FROM November 1st TO December 31st

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude AE AN AZ	Remarks
Nov. 1	III	eP _{EN} ?	4 15 55			Epicenter: 25°9 N. 106°W. Δ = 14.8
		iE	4 18 05			
		iM _{EN}	4 19 00			
		F	5 15 ±			
Dec. 1	I	eP _E	4 18 25			Destructive in Talca, Chillan, Linares, and throughout the surrounding region in Chile. Epicenter: 34°7 S. 74°5 W. Δ = 79°
		eP _N	4 18 27			
		iS _E	4 28 30			
		iS _N	4 28 31			
		iP _{S_E}	4 29 10			
		e _E	4 33 02			
		gP _C SS _C P _E	4 33 44			
		eSR _{1E}	4 33 54			
		e _E	4 35 38			
		e _E	4 37 17			
		e _E	4 40 09			
		eL _E	4 43 17			
		eM _E	4 48 08			
		F	6 55 ±			

1929

D E N V E R

No. 1

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

 Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80Kg., a static horizontal pendulum.

Nomenclature: International.

 FROM January 1st TO February 28th

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude A _E A _N A _Z	Remarks
Jan. 21	I	e _{EN}	10 48 54			Reported from Fairbanks, Alaska. $\Delta = 34^{\circ} 7$
		i _E	10 49 02			
		e _E	10 49 23			
		e _E	10 53 15			
		e _E	10 55 00			
		F	11 10 $\pm$			
Jan. 24	II	e _{PE}	20 41 46			Off coast of Central America. 12° N. $90^{\circ} 3$ W. $\Delta = 30^{\circ} 4$
		e _{PR₁E}	20 42 42			
		e _{SEN}	20 46 40			
		e _{LE}	20 49 30			
		e _{LN}	20 50 00			
		i _{ME}	20 50 20			
		F	22 20 $\pm$			
Feb. 22	I	i _{PE}	20 52 06			Central Atlantic $8^{\circ} 7$ N. $42^{\circ} 2$ W. $\Delta = 64^{\circ}$
		i _{PR₁E}	20 54 39			
		e _{SE}	21 00 39			
		e _{LE}	21 11 24			
		e _{ME}	21 13 40			
		F	21 50 $\pm$			

1929

D E K V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 5555 Feet
Longitude: 105° 50' W. Latitude: 39° 40' N.
Time: Mean Greenwich, midnight to midnight
Instrument: Weston 8000, a radio horizontal pendulum.
Observations: International.

FROM: January 1st TO: February 28th

Date	Time	Plane	O.M. Time	Period	Amplitude	Remarks
Jan. 21	11	SW	10 48 54			Reported from Fairbanks, Alaska. $\Delta = 34^\circ$
		SE	10 49 02			
		SE	10 49 23			
		SE	10 53 12			
		SE	10 55 00			
		SE	11 10 4			
		SE	11 10 4			
Jan. 24	II	SW	20 41 42			Off coast of Central America. $\Delta = 34^\circ$
		SW	20 42 42			
		SW	20 42 40			
		SW	20 49 30			
		SW	20 50 40			
		SW	20 50 40			
		SW	20 50 4			
Feb. 21	I	SW	20 52 02			Central America. $\Delta = 34^\circ$
		SW	20 54 39			
		SW	21 00 39			
		SW	21 11 20			
		SW	21 13 40			
		SW	21 50 4			
		SW	21 50 4			

1929

D E N V E R

No. 2

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80Kg., a static horizontal pendulum.

Nomenclature: International.

FROM March 1st TO May 31st

Date	Char.	Phase	G.M.Time h. m. s.	Period e n z			Amplitude			Remarks
							A _E	A _N	A _Z	
Mar. 7	II	iPEN	1 43 02							Aleutian Islands Δs-p ⁴⁵ 0.1
		iPR ₁ EN	1 44 50							
		iE	1 45 04							
		eS _N	1 49 39							
		iS _M	1 49 50							
		iS _E	1 49 54							
		eN	1 52 39							
		iEN	1 53 06							
		eM _N	1 57 09							
		eM _E	1 58 29							
		F	3 00 ±							
April 7	I	e _E	19 42 40							
		F	20 00 ±							
May 1	I	eM _E	16 32 00							
		F	17 30 ±							

9591

Regis College, Denver, Colorado

1900

Longwood, N. H. Mr. W. H. Dr. Lachman: 200 400 500 N.

1950-1951

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Feb. 1904

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1929

D E N V E R

No. 2 (Cont'd.)

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International.

FROM March 1st TO May 31st.

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z			Amplitude A _E A _N A _Z			Remarks
May 26	II	eP _{EN}	22 43 47							South- west of Sitka, Alaska. Δ = 26°.6
		iP _{R2N}	22 44 14							
		iP _{RSE}	22 44 17							
		i _{EN}	22 44 50							
		i _N	22 47 40							
		i _{SE}	22 48 07							
		i _E	22 48 30							
		iSR _{2EN}	22 49 24							
		iSR _{3N}	22 50 06							
		i _E	22 50 07							
		iL _E	22 50 10							
		iL _{EN}	22 51 04							
End lost in changing record.										

1929

D E N V E R

No. 3

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80kg., a static horizontal pendulum.
 Nomenclature: International.

FROM June 1st TO August 17th

Date	Char.	Phase	G.M. Time h. m. s.	Period c n z	Amplitude A _E A _N A _Z	Remarks
June 13	I	e _E e _{SE} e _{SR₁E?} Rest covered by following earthquake.	0 26 14 0 32 42 0 37 28			
June 13	I	e _{PR₁E} e _{SE} F	0 40 09 0 43 19 1 30 ±			
June 13	I	e _{P'E} e _{ScP_cSE} e _N e _E e _{LEN} e _{LEN} F	9 43 30 9 50 29 9 51 00 9 54 23 10 11 40 10 18 00 11 15 ±			
June 16	I	e _{PR₁EN} e _N e _{PSE} e _{LN} e _{LEN} F	23 06 45 23 10 40 23 16 09 23 34 00 23 41 30 24 30 ±			Destructive in Northern part of South Island, New Zealand.
July 6	I	Beginning lost in changing record. F	10 00 00			

No. 3

B E N V E R

1928

RECORD OF THE EARTHQUAKE STATION

Ripon College, Denver, Colorado

Altitude: 1665 feet
 Longitude: 104° 56' 22" W. Lat. 39° 40' 30" N.
 Time: Mean Greenwich, 1928
 Instrument: Woodward 800g. 2.5 sec. pendulum.
 Name of observer: International

FROM June 1st 1928 TO June 17th 1928

Date	Time	Period	Amplitude	Remarks
June 13	1	0.35 14		
		0.35 43		
		0.35 35		
June 13	1	0.40 05		
		0.40 12		
		1.30 ±		
June 13	1	2.43 30		
		2.30 23		
		2.31 00		
		2.34 33		
		10.11.40		
		10.12.00		
		11.18.1		
June 16	1	23.03.25		
		23.40.40		
		23.43.09		
		23.44.00		
		23.41.30		
		2.43.30 +		
July 2	1	10.00.00		

Beginning first in changing record.

Destructive
 in Northern
 Part of
 South Island
 New Zealand.

1929

D E N V E R

No. 3 (Cont'd.)

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

 Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International.

FROM June 1st TO August 17th.

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude A _E A _N A _Z	Remarks
July 7	I	eP _{EN} ePR _{1EN} eS _E eS _N eSR _{1E} eL _{E(N)} eM _{EN} F	21 32 08 21 34 19 21 39 10 21 39 11 21 41 30 21 45 30 21 48 30 23 40 ±			Aleutian Islands. $\Delta = 49^{\circ}$
July 8	I	eE eS _E eL _{EN} F	16 51 32 16 51 48 16 52 18 17 10 ±			Felt in Los Angeles.
July 23	I	eE eM _{EN} F	18 58 50 19 09 30 19 40 ±			
Aug. 12	I	eE F	11 34 07 11 50 ±			Felt in Western New York.
Aug. 17	I	eP _{EN} eS _E eE eSR _{1E} eM _{EN} F	23 46 02 23 50 22 23 50 58 23 51 43 23 53 36 24 30 ±			Acapulco Deep. $\Delta = 25.5$

1929

-4-

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1355 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 kg., a static horizontal pendulum.

Nomenclature: International.

FROM September 17 TO November 18

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude $\Delta_E \Delta_N \Delta_Z$	Remarks
Sept. 17	I	iP _N ? iP _E iPR _{1N} iPR _{2EN} eS _E ? iS _{EN} iS _N iSR _{1N} iSR _{2N} iL _E iL _N iM _{EN} F	19 22 24 19 22 26 19 22 50 19 23 00 19 26 30 19 26 40 19 26 41 19 27 31 19 27 57 19 28 47 19 29 07 19 30 47 20 25 ±			Queen Charlotte Islands. $\Delta = 23.6$
Sept. 27	I	e _N e _E eS _{EN} eL _E F	23 20 44 23 20 51 23 23 38 23 25 00 23 50 ±			Southern extremity of Lower California. $\Delta = 16.4$
Oct. 19	I	eP _{EN} eS _E F	10 23 00 10 32 05 10 50 ±			Off North coast of Chile. $\Delta_{\text{meas}} = 67.7$
Nov. 15	I	eL _N eM _E F	19 32 30 19 40 00 20 15 ±			North of New Guinea.

RECORD OF THE EARTHQUAKE STATION

Regis-Vallejo, Denver, Colorado

Altitude: 1235 m.
 Longitude: 104° 52' W. Latitude: 39° 40' N.
 Time: Mean Greenwich, 1900-1901.
 Instrument: Woodworth 25 sec. pendulum.
 Horizontal: 100 sec. pendulum.

FROM September 19 TO November 19

Date	Hour	Phase	G.M. Time	Period	Amplitude	Remarks
Sept. 19	1		19 23 24			
			19 23 26			
			19 23 28			
			19 23 30			
			19 23 32			
			19 23 34			
			19 23 36			
			19 23 38			
			19 23 40			
			19 23 42			
			19 23 44			
			19 23 46			
			19 23 48			
			19 23 50			
			19 23 52			
			19 23 54			
			19 23 56			
			19 23 58			
			19 24 00			
			19 24 02			
			19 24 04			
			19 24 06			
			19 24 08			
			19 24 10			
			19 24 12			
			19 24 14			
			19 24 16			
			19 24 18			
			19 24 20			
			19 24 22			
			19 24 24			
			19 24 26			
			19 24 28			
			19 24 30			
			19 24 32			
			19 24 34			
			19 24 36			
			19 24 38			
			19 24 40			
			19 24 42			
			19 24 44			
			19 24 46			
			19 24 48			
			19 24 50			
			19 24 52			
			19 24 54			
			19 24 56			
			19 24 58			
			19 25 00			
			19 25 02			
			19 25 04			
			19 25 06			
			19 25 08			
			19 25 10			
			19 25 12			
			19 25 14			
			19 25 16			
			19 25 18			
			19 25 20			
			19 25 22			
			19 25 24			
			19 25 26			
			19 25 28			
			19 25 30			
			19 25 32			
			19 25 34			
			19 25 36			
			19 25 38			
			19 25 40			
			19 25 42			
			19 25 44			
			19 25 46			
			19 25 48			
			19 25 50			
			19 25 52			
			19 25 54			
			19 25 56			
			19 25 58			
			19 26 00			
			19 26 02			
			19 26 04			
			19 26 06			
			19 26 08			
			19 26 10			
			19 26 12			
			19 26 14			
			19 26 16			
			19 26 18			
			19 26 20			
			19 26 22			
			19 26 24			
			19 26 26			
			19 26 28			
			19 26 30			
			19 26 32			
			19 26 34			
			19 26 36			
			19 26 38			
			19 26 40			
			19 26 42			
			19 26 44			
			19 26 46			
			19 26 48			
			19 26 50			
			19 26 52			
			19 26 54			
			19 26 56			
			19 26 58			
			19 27 00			
			19 27 02			
			19 27 04			
			19 27 06			
			19 27 08			
			19 27 10			
			19 27 12			
			19 27 14			
			19 27 16			
			19 27 18			
			19 27 20			
			19 27 22			
			19 27 24			
			19 27 26			
			19 27 28			
			19 27 30			
			19 27 32			
			19 27 34			
			19 27 36			
			19 27 38			
			19 27 40			
			19 27 42			
			19 27 44			
			19 27 46			
			19 27 48			
			19 27 50			
			19 27 52			
			19 27 54			
			19 27 56			
			19 27 58			
			19 28 00			
			19 28 02			
			19 28 04			
			19 28 06			
			19 28 08			
			19 28 10			
			19 28 12			
			19 28 14			
			19 28 16			
			19 28 18			
			19 28 20			
			19 28 22			
			19 28 24			
			19 28 26			
			19 28 28			
			19 28 30			
			19 28 32			
			19 28 34			
			19 28 36			
			19 28 38			
			19 28 40			
			19 28 42			
			19 28 44			
			19 28 46			
			19 28 48			
			19 28 50			
			19 28 52			
			19 28 54			
			19 28 56			
			19 28 58			
			19 29 00			
			19 29 02			
			19 29 04			
			19 29 06			
			19 29 08			
			19 29 10			
			19 29 12			
			19 29 14			
			19 29 16			
			19 29 18			
			19 29 20			
			19 29 22			
			19 29 24			
			19 29 26			
			19 29 28			
			19 29 30			
			19 29 32			
			19 29 34			
			19 29 36			
			19 29 38			
			19 29 40			
			19 29 42			
			19 29 44			
			19 29 46			
			19 29 48			
			19 29 50			
			19 29 52			
			19 29 54			
			19 29 56			
			19 29 58			
			19 30 00			
			19 30 02			
			19 30 04			
			19 30 06			
			19 30 08			
			19 30 10			
			19 30 12			
			19 30 14			
			19 30 16			
			19 30 18			
			19 30 20			
			19 30 22			
			19 30 24			
			19 30 26			
			19 30 28			
			19 30 30			
			19 30 32			
			19 30 34			
			19 30 36			
			19 30 38			
			19 30 40			
			19 30 42			
			19 30 44			
			19 30 46			
			19 30 48			
			19 30 50			
			19 30 52			
			19 30 54			
			19 30 56			
			19 30 58			
			19 31 00			
			19 31 02			
			19 31 04			
			19 31 06			
			19 31 08			
			19 31 10			
			19 31 12			
			19 31 14			
			19 31 16			
			19 31 18			
			19 31 20			
			19 31 22			
			19 31 24			
			19 31 26			
			19 31 28			
			19 31 30			
			19 31 32			
			19 31 34			
			19 31 36			
			19 31 38			
			19 31 40			
			19 31 42			
			19 31 44			
			19 31 46			
			19 31 48			
			19 31 50			
			19 31 52			
			19 31 54			
			19 31 56			

Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude A _E A _N A _Z			Remarks
Nov. 18	II	eP _{EN}	20 38 48					Destructive along South Coast of New- foundland. Δ = 34.3
		i _{EN}	20 39 14					
		iPR _{2E} ?	20 39 32					
		iPR _{3E} ?	20 39 39					
		iS _E	20 48 42					
		i _E	20 43 51					
		i _E	20 44 00					
		iSR _{1E}	20 45 52					
		eL _{EN}	20 47 00					
		eM _E ?	20 49 20					
		F	21 45 ±					

No 4 (Cont'd)

1939

No 4 (Cont'd)

DEWEY

STATION OF THE EARTHQUAKE

STATION OF THE EARTHQUAKE, DEWEY, COLORADO

Longitudes: 104° 50' 54" W. Latitude: 38° 40' 38" N.
 Time: Near Greenwater, Colorado, at midnight.
 Instrument: Westport 80 kg. static horizontal pendulum.
 Name: International
 TO November 18

Phase	Char.	Time	Amplitude	Remarks
Nov. 18	II	20 39 48		Deceptive
		20 39 14		along South
		20 39 38		East of New-
		20 39 39		land.
		20 42 43		A - 3492
		20 45 51		
		20 45 00		
		20 45 58		
		20 47 00		
		20 48 30		
		21 48 41		

1929-30

D E N V E R

No. 4

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1685 Met.

 Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International.

FROM December 17, 1929 TO March 1, 1930

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Dec. 17	II	eP _{EN} eS _{EN} eSR _{1EN} eM _{EN} F	11 08 16 11 16 03 11 19 52 11 29 42 13 15 ±	Epicenter 52° N. 175° E. $\Delta = 56^{\circ} 1$
1930 Jan. 16	I	eE eME F	0 27 45 0 30 08 End covered by following quake.	Felt in Los Angeles
Jan. 16	I	eME F	0 39 40 0 55 ±	Felt in Los Angeles.
Feb. 26	I	eP _E eM _E F	2 32 13 2 35 30 2 50 ±	Felt at Calexico, Calif.
Mar. 1	I	eP _E eM _E F	23 45 48 23 50 12 23 55 ±	
Note: Please insert chronologically.				
Feb. 26	I	eE F	3 27 00 3 40 ±	Felt at Calexico

1930

D E N V E R

No.5

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80kg., a static horizontal pendulum.
 Nomenclature: International.

FROM May 5, 1930 TO July 25, 1930

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
May 5	I	eM _N F	14 49 00 16 30 ±	Beginning lost on change of record. Destructive in Rangoon.
May 6	I	eL _N eM _N F	23 15 30 23 27 00 24 20 ±	Destructive in Urmiah, Persia.
May 11	I	eN eM _N F	22 14 39 22 18 43 22 40 ±	
June 12	I	eN eN F	21 13 56 21 14 25 21 18 ±	Felt in Grover, Wyo. and in adjacent parts of Idaho.
June 12	II	eP _{EN} iE iE iE iN iN iS _E F	21 47 33 21 47 37 21 47 40 21 47 42 21 48 21 21 48 33 21 48 45 21 58 ±	Felt in Grover, Wyo. and in adjacent parts of Idaho.
June 12	I	eN iS _N F	22 40 35 22 41 45 22 45	Same as above

1930

D E N V E R

No. 5 Cont'd

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International.

FROM May 5, 1930 TO July 25, 1930

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
July 2	I	e _N eM _N F	21 34 50 22 05 00 22 30 ±	Destructive in Assam, India.
July 12	I	eP _{EN} i _{EN} i _N i _N iS _{EN} i _N i _N F	0 01 00 0 01 07 0 02 07 0 02 15 0 02 31 0 02 33 0 02 37 0 20 ±	Felt in west central Montana.
July 14	I	e _{EN} eS _{EN} eL _N eM _N F	22 45 48 22 50 30 22 55 30 22 59 40 23 40 ±	Pacific Ocean off coast of Guatamala
July 25	I	e _N F	21 40 01 22 00 ±	

1930

D E N V E R

No. 6

RECORD OF THE EARTHQUAKE

STATION

Regis College, Denver, Colorado

Altitude: 1355 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International.

 FROM October 24 TO December 9

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Oct. 24	I	iP _E	20 28 10	$\Delta = 93^\circ$ Marianas Islands
		iScPcSEN	20 38 39	
		ePSN	20 40 32	
		eMEN	21 00 30	
		F	21 50 $\pm$	
Oct. 25	I	ee	12 11 18	
		iM	12 22 53	
		F	12 50 $\pm$	
Nov. 30	I	eP _N	21 35 35	
		eS _E	21 39 22	
		eM _{EN}	21 42 40	
		F	22 15 $\pm$	
Dec. 3	I	ee	19 07 16	
		e _E	19 12 11	
		eM _E	19 56 00	
		F	20 45 $\pm$	
Dec. 9	I	eP _N	19 20 47	
		iSR _{1E}	19 25 42	
		F	20 40 $\pm$	

1930

D E N V E R

No. 6

RECORD OF THE EARTHQUAKE

STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

 Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International.

 FROM October 24 TO December 9

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Oct. 24	I	iP _E	20 28 10	$\Delta = 93^{\circ}$ Marianas Islands
		iScPcSEN	20 38 39	
		ePSN	20 40 32	
		eMEN	21 00 30	
		F	21 50 $\pm$	
Oct. 25	I	eE	12 11 18	
		iM	12 22 53	
		F	12 50 $\pm$	
Nov. 30	I	eP _N	21 35 35	
		eS _E	21 39 22	
		eMEN	21 42 40	
		F	22 15 $\pm$	
Dec. 3	I	eE	19 07 16	
		eE	19 12 11	
		eM _E	19 56 00	
		F	20 45 $\pm$	
Dec. 9	I	eP _N	19 20 47	
		iSR _{1E}	19 25 42	
		F	20 40 $\pm$	

No. 8

D. E. N. V. 3. 3

1930

RECORD OF THE SEISMOGRAPH

STATION

Marble College, Denver, Colorado

Altitude: 1600 feet
 Longitude: 104° 54' 34" W. Latitudes: 39° 40' 38" N.
 Time: Mountain Standard Time, midnight to midnight.
 Instrument: Wiscasset 80K, a static horizontal pendulum.
 Name of observer: International.

FROM October 24 TO December 9

Date	Char.	Phase	G.M. Time L. M. Time	Remarks
Oct. 24	I	1P 1.0 P. 0.8 H 0.2 S 0.1 T	20 28 10 20 28 30 20 28 33 20 28 36 20 28 39 20 28 42	4 - 33° Marble College
Oct. 25	I	1P 1.0 P. 0.8 H 0.2 S 0.1 T	18 11 18 18 11 23 18 11 28 18 11 33 18 11 38 18 11 43	
Nov. 30	I	1P 1.0 P. 0.8 H 0.2 S 0.1 T	21 28 35 21 28 38 21 28 41 21 28 44 21 28 47 21 28 50	
Dec. 1	I	1P 1.0 P. 0.8 H 0.2 S 0.1 T	18 07 18 18 07 23 18 07 28 18 07 33 18 07 38 18 07 43	
Dec. 2	I	1P 1.0 P. 0.8 H 0.2 S 0.1 T	19 20 40 19 20 43 19 20 46 19 20 49 19 20 52 19 20 55	

1931

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International

FROM January 2 TO January 27

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Jan. 2	II	eP _N	9 53 38	Epicenter 18 N. 108.5 W.
		iPR _{1N}	9 54 08	
		eS _E	9 57 30	
		iS _E	9 57 35	
		iM	9 59 58	
		F	11 30 ±	
Jan. 15	III	eP _{EN}	1 56 04	Epicenter 15° N. 97° W. Destructive in Southern Mexico.
		i _{EN}	1 56 09	
		iPR _{1EN}	1 56 39	
		iS _{EN}	2 00 28	
		iS _{EN}	2 00 33	
		eL _E	2 02 24	
		iM _E	2 03 55	
		F	3 00 ±	
Jan. 16	I	eE	16 59 40	
		F	17 10 ±	
Jan. 18	I	eP _{EN}	19 25 22	Acapulco Deep. Δ = 27.2
		eS _N	19 29 55	
		eL _E	19 33 00	
		F	20 15 ±	
Jan. 17	II	eN	2 58 47	
		eS _E	2 58 35	
		iM _E	2 58 15	
		F	4 10 ±	
Jan. 25	I	eN	12 40 53	
		eM _E	12 47 10	
		F	13 15 ±	
Jan. 27	I	eE	20 26 08	
		eN	20 28 25	
		eEN	20 38 03	
		eMEN	21 07 00	
		F	22 10 ±	

1931

D E N V E R

No.1

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

 Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International

 FROM January 2 TO January 27

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Jan. 2	II	ePN	9 53 38	Epicenter 18° N. $108^{\circ} 5'$ W.
		iPR ₁ N	9 54 08	
		eSE	9 57 30	
		iSE	9 57 35	
		iM	9 59 58	
		F	11 30 $\pm$	
Jan. 15	III	ePEN	1 56 04	Epicenter 15° N. 97° W. Destructive in Southern Mexico.
		iEN	1 56 09	
		iPR ₁ EN	1 56 39	
		iSEN	2 00 28	
		iSEN	2 00 33	
		eLE	2 02 24	
		iME	2 03 55	
		F	3 00 $\pm$	
Jan. 16	I	eE	16 59 40	
		F	17 10 $\pm$	
Jan. 16	I	ePEN	19 25 22	Acapulco Deep. $\Delta = 27^{\circ} 2'$
		eS _N	19 29 55	
		eLE	19 33 00	
		F	20 15 $\pm$	
Jan. 17	III	eN	2 58 47	
		eSE	2 58 35	
		iME	2 58 15	
		F	4 10 $\pm$	
Jan. 25	I	eN	12 40 53	
		eME	12 47 10	
		F	13 15 $\pm$	
Jan. 27	I	eE	20 26 08	
		eN	20 28 25	
		eEN	20 38 03	
		eMEN	21 07 00	
		F	22 10 $\pm$	

1931 JANUARY 27

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1625 Met.
Longitude: 104° 55' 54" W. Latitude: 39° 40' 38" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wisco 80 kg., a static horizontal pendulum.
Form of station: 1

FROM January 27 TO January 27

Date	Obs.	Phase	Time	Remarks
Jan. 27	II	ep	3 53 35	Colony 18 N. 108° 25' W.
		ep	3 54 08	
		ep	3 57 30	
		ep	3 57 35	
		ep	3 59 18	
		ep	4 10 1	
Jan. 16	III	ep	1 32 04	Colony 18 N. 97° W.
		ep	1 35 09	Disturbance in Southern
		ep	1 55 39	Mexico.
		ep	2 00 25	
		ep	2 00 33	
		ep	2 02 34	
		ep	2 03 55	
		ep	3 00 ±	
Jan. 16	I	ep	18 52 40	
		ep	19 10 ±	
Jan. 16	I	ep	19 32 28	Acaducio Pass.
		ep	19 33 55	A = 2792
		ep	19 33 08	
		ep	20 15 ±	
Jan. 17	II	ep	2 52 47	
		ep	2 53 35	
		ep	2 59 15	
		ep	4 10 ±	
Jan. 28	I	ep	12 40 23	
		ep	12 42 10	
		ep	12 42 1	
Jan. 27	I	ep	20 32 08	
		ep	20 33 35	
		ep	20 38 03	
		ep	21 27 00	
		ep	25 10 ±	

1931

D E N V E R

No.2

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert, 40 kg., a static horizontal pendulum.
 Nomenclature: International

FROM February 2 TO March 18

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Feb. 2	I	eE	23 04 17	$\Delta_{\text{meas}} 105.9$ Very destructive in New Zealand.
		ePRIN	23 05 55	
		eN	23 07 57	
		ePSz	23 15 10	
		eN	23 23 53	
		eLEN	23 31 20	
		eMEN	23 35 10	
		F	24 50 ±	
Feb. 20	I	eN	5 46 25	Epicenter 44° 135°E. $\Delta_{\text{meas}} 80.2$
		eE	5 47 46	
		eN	5 54 13	
		iEN	5 54 16	
		eN	5 55 10	
		eE	5 55 16	
		eE	5 56 32	
		F	6 50 ±	
Mar. 9	I	eEN	4 00 40	Epicenter 41°N. 142°E. $\Delta_{\text{meas}} 79.0$
		eE(N)	4 10 31	
		eLEN	4 31 00	
		eMN	4 40 00	
		F	5 40 ±	
Mar. 18	I	eSE	8 24 34	Epicenter 32°S. 73°W. $\Delta_{\text{meas}} 77.7$
		eEN	8 30 17	
		eMEN	8 47 10	
		F	9 45 ±	

1931

DENVER

No. 3

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.
Longitude: $104^{\circ} 56' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiechert 80 kg., a static horizontal pendulum.
Nomenclature: International

FROM March 31 TO May 20

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Mar. 31	I	e _T F	16 16 10 16 25 ±	Managua destroyed. $\Delta_{\text{meas}} 32.1$
Apr. 19	I	e _P _N e _S _N e _E i _E F	2 05 21 2 08 54 2 11 09 2 11 20 2 35 ±	Epicenter 21.5° N. 111.0° W. $\Delta_{\text{S-P}} 19.3$
Apr. 24	I	e _T e _L _E F	17 40 57 18 09 00 18 40 ±	
May 9	I	e _P _N e _S _E e _L _E i _M _N F	10 33 25 10 41 38 10 43 19 10 44 30 11 00 ±	Epicenter 23.7° N. 108.5° W. $\Delta_{\text{S-P}} 17.1$
May 16	I	e _F _E e _S _E e _M _E F	20 52 59 20 57 28 21 00 35 21 20 ±	Epicenter 14.7° N. 96.5° W. $\Delta_{\text{S-P}} 26.5$
May 20	I	e _P _E c _N i _S _{EN} e _L _N e _M _{EN} F	2 33 34 2 42 12 2 42 27 2 49 40 2 54 00 3 30 ±	Epicenter 37.5° N. 16.5° W. $\Delta_{\text{S-P}} 66.1$

1931

D E N V E R

No. 4

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Longitude: 104° 36' 54" W. Fr. Latitude: 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert, 80 kg., a static horizontal pendulum.

Nomenclature: International.

FROM June 21 TO August 27

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
June 21	I	eP _N	12 27 34	Epicenter 19°N. 110°W. Δ _{S-P} 21.4
		eS _E	12 31 24	
		eL _{EN}	12 34 00	
		F	13 00 ±	
July 7	I	eP _N	3 59 58	Epicenter 13°N. 94°W. Δ _{S-P} 28.3
		eS _E	4 04 40	
		eM _N	4 10 07	
		F	4 25 ±	
July 17	I	eP _N	9 19 07	Epicenter 14.5°N. 97°W. Δ _{S-P} 26.2 Δ _{meas} 26.1
		eS _{EN}	9 23 33	
		eM _{EN}	9 27 00	
		F	9 40 ±	
Aug. 16	I	iS _E	11 19 46	Felt in Texas
		iS _N	11 19 49	
		F	11 25 ±	
Aug. 16	I	eP _N	11 42 50	Destructive in Western Texas.
		e _N	11 42 55	
		i _{EN}	11 42 57	
		i _N	11 43 04	
		iP _N	11 43 20	
		i _{EN}	11 43 25	
		iS _{EN}	11 45 15	
		i _E	11 45 35	
		F	12 40 ±	

1931

D E N V E R

No.4 (Cont'd)

 RECORD OF THE EARTHQUAKE STATION
 Regis College, Denver, Colorado

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Fr. Latitude: 39° 40' 56" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 kg., a static horizontal pendulum.
 Nomenclature: International

FROM August 16 TO August 27

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Aug. 16	I	eN iS _E F	13 36 10 13 38 02 13 50 ±	Felt in Texas
Aug. 23	I	eP _E eS _N iL _N eM _E F	18 05 12 18 05 20 18 10 12 18 11 25 18 20 ±	Epicenter 42°N. 127°W. Δ _{S-P} 16.5 Δ _{meas} 16.5
Aug. 27	I	Beginning lost changing record. eI'EN F	16 38 00 17 20 ±	

No. 4 (Cont'd)

D E N V E R

1931

RECORD OF THE EARTHQUAKE STATION
Rensselaer College, Denver, Colorado

Altitude: 1555 meters
Longitude: 104° 58' 54" W. Latitude: 39° 40' 58" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Winkler 60 cm. static horizontal pendulum.
Observations: International

FROM August 18 TO August 27

Date	Char. Phase	G.M. Time	Remarks
Aug. 18	I	18 33 19	First in Texas
		18 38 33	
		18 50 12	
Aug. 25	I	18 08 18	Epiphany 43° N. 127° W.
		18 08 30	Aug. 1895
		18 10 13	Aug. 1895
		18 11 23	
		18 20 12	
Aug. 27	I	18 08 40	Beginning first changing record.
		18 08 40	
		18 08 40	
		18 08 40	

1931

D E N V E R

No. 5

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1355 Met.

 Longitude: $104^{\circ} 53' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80kg., a static horizontal pendulum.

Nomenclature: International

 FROM September 9 TO November 2

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Sept. 9	I	eS _E	13 47 16	Epicenter $40^{\circ} 5$ N. $126^{\circ} 5$ E.
		eL _E	13 48 42	
		F	13 58 10	
Sept. 9	I	e _E	20 59 35	Epicenter 18° N. 146° E.
		e _E	20 55 10	
		F	21 05 ±	
Sept. 25	I	ePR _{1E}	6 21 46	Epicenter apparently in Indian Ocean
		eS _C P _C S _E	6 25 55	
		ePS _E	6 32 50	
		eSR _{1E}	6 40 03	
		eMEN	7 05 30	
		F	7 40 ±	
Oct. 1	I	e _E	11 51 25	Epicenter $29^{\circ} 8$ N. $115^{\circ} 2$ W.
		i _E	11 51 59	
		M _E	11 55 30	
		F	12 11	
Oct. 3	II	ePR _{1E}	19 31 16	Epicenter 10° S. 161° E.
		eS _C P _C P _C S _E	19 33 01	
		iP _E	19 39 53	
		e _E	19 43 41	
		L	19 55 33	
		W ₂	22 14 00	
Oct. 3	I	F	22 16 ±	
Oct. 3	I	M _E	23 33 00	
		F	25 15 ±	

1931

D E N V E R

No. 5 Cont'd

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1635 Met.

Longitude: $104^{\circ} 58' 54''$ W. Fr. Latitude: $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 807g., a static horizontal pendulum.

Nomenclature: International.

FROM September 9 TO November 2

Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Oct. 10	II	eS _C F _C S _E	00 44 33	Epicenter 9° S. 160° E.
		eP _S E	00 46 29	
		L _E	1 07 10	
		M _E	1 10 15	
		F	2 20 $\pm$	
Oct. 26	I	eP _N E	4 29 25	Epicenter 21.5° N. 108° W.
		eP _R E	4 29 39	
		eS _E	4 32 47	
		eSR ₁ E	4 32 40	
		L _E	4 33 57	
		M _E N	4 35 51	
		F	5 00 $\pm$	
Nov. 1	I	iP _E	00 37 46	Δ_{S-P} 26.8 Epicenter 15.7° N. 96° W.
		ePR ₁ E	00 38 24	
		iS _E	00 42 18	
		eSR ₁ E	00 43 29	
		eSR ₂ E	00 43 59	
		L _E	00 45 34	
		M _E	00 47 25	
Nov. 2	I	eM _E	10 47 30	Destructive in Southern Japan
		F	10 59 $\pm$	

1932

D E N V E R



From the ISC collection scanned by SISMOS

RECORD OF THE EARTHQUAKE STATIONNNN

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104 56 54 W. Fr. Lat. 39 40 36 N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature, International.

FROM January 29, 1932 TO May 1, 1932.

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
1	January 29	I	eP _E e _E eSR _{1E} e _E eM _E F	13 55 20 14 02 10 14 14 00 14 17 40 14 28 30 15 30 ±	Epicenter in the Solomon Islands.
2	February 3	I	eP _N i _N i _E eS _E iM _N F	6 22 31 6 22 56 6 23 02 6 27 53 6 33 40 6 50 ±	Epicenter 19°2' N. 76°W. Destructive in Santiago, Cuba.
3	March 14	I	eP _N eS _N iM _{EN} F	4 10 09 4 13 40 4 16 55 4 30 ±	Epicenter 20°5' N. 110°W.
4	March 26	I	eP _N i _N eS _E eL _N iM _E F	0 05 34 0 05 50 0 11 18 0 16 40 0 18 50 0 50 ±	Epicenter 61°N. 151°W.
5	April 24	I	eL _N iM _N F	6 18 00 6 18 40 6 30 ±	Epicenter 26°N. 112°W.
6	May 1	I	e _N iM _N F	18 14 40 18 15 12 18 25 ±	Epicenter possibly S. E. Arizona.

RECORD OF THE EARTHQUAKE STATION REGIA COLLEGE, DENVER, COLORADO

Altitude: 1825 Met.
 Long. 104 56 W. Lat. 39 40 N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Name of tube, International.

FROM JANUARY 23, 1933 TO MAY 1, 1933.

No.	Date	Chas.	Phase	G.M. Time h. m. s.	Remarks
1	January 23	I	epi	13 55 20	Epicerter in the Solomon Islands.
			ep	14 02 10	
			ep	14 14 00	
			ep	14 17 40	
			ep	14 22 30	
			ep	15 30 ±	
2	February 3	I	epi	8 22 31	Epicerter 3.3 N. 78° W. in the Pacific, in Santiago, Chile.
			in	8 23 55	
			in	8 23 03	
			in	8 27 53	
			in	8 33 40	
			in	8 50 ±	
3	March 14	I	epi	4 10 02	Epicerter 20° N. 110° W.
			ep	4 13 40	
			in	4 13 55	
			in	4 30 ±	
4	March 26	I	epi	0 05 34	Epicerter 61° N. 151° W.
			in	0 05 50	
			ep	0 11 18	
			ep	0 16 40	
			in	0 18 50	
			in	0 50 ±	
5	April 22	I	epi	8 18 00	Epicerter 28° N. 113° W.
			in	8 18 40	
			in	8 30 ±	
			in	12 11 40	
			in	12 12 12	
			in	12 22 ±	
6	May 1	I	epi	12 11 40	Epicerter possibly S. E. Arizona.
			in	12 12 12	
			in	12 22 ±	

1932

D E N V E R



From the ISC collection scanned by SISMOS

RECORD OF THE EARTHQUAKE STATION
RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655, Met.

Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature, International.

FROM MAY 14, 1932 TO JUNE 22, 1932.

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
7	May 14	I	eP _N iPR _N iN iN iPS _{EN} eL _{EN} F	13 29 45 13 31 14 13 34 00 13 33 42 13 41 00 14 01 00 15 00 ±	Destructive in Celebes Island. Time uncertain. Surface waves relatively small.
8	May 21	I	iP _{EN} i _{EN} eS _{EN} iS _E i _{EN} iM _{EN} F	10 16 11 10 18 15 10 21 02 10 21 09 10 21 41 10 24 00 11 00 ±	$\Delta_{S-P} 23^{\circ} 2$ Destructive in San Salvador and Honduras. Time uncertain.
9	May 26	I	eP _N eN epP _N iPR _{1N} iN iN iN iN iS _N eN iEN F	16 22 12 16 23 55 16 24 11 16 26 04 16 27 46 16 29 24 16 30 53 16 31 18 16 31 53 16 32 50 16 34 13 16 50 ±	Epicenter: 23° S. 180° W. Very deep focus. Time uncertain.
10	June 3	III	eP _{EN} iN iN iN	10 41 06 Dilat. 10 41 13 Dilat. 10 41 20 Comp. 10 41 44	Epicenter: 16° N. 104° W. Destructive in S. W. Mexico. Time uncertain.

RECORD OF THE EARTHQUAKE STATION RECORD OF THE EARTHQUAKE STATION Regis College, Denver, Colorado

Altitude: 1655 Met.
Long: 104° 56' 54" W. Lat: 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiscott 80 Kc., a static horizontal pendulum.
Nomenclature, International.

FROM MAY 14, 1932 TO JUNE 22, 1932.

No.	Date	Char.	Phase	G.M. Time H. M. S.	Remarks
7	May 14	I	ep 1P 1N 1N 1P 1N	13 39 45 13 41 14 13 44 00 13 44 42 13 41 00 14 01 00	Disturbance in Colorado Island. Time uncertain. Surface waves relatively small.
8	May 21	I	1P 1N 1P 1N 1N 1N	10 16 11 10 19 16 10 21 02 10 21 03 10 21 41 10 24 00	Disturbance in San Salvador and Honduras. Time uncertain.
9	May 26	I	ep 1P 1P 1N 1N 1N 1N 1N 1N 1N	16 22 12 16 23 28 16 24 11 16 26 04 16 27 46 16 29 24 16 30 23 16 31 18 16 31 58 16 32 50 16 34 13	Epicenter: 23° S. 180° W. Very deep focus. Time uncertain.
10	June 3	III	ep 1P 1N	10 41 06 Dist. 10 41 13 Dist. 10 41 30 Comp.	Epicenter: 18° N. 104° W. Disturbance in S. W. Mexico. Time uncertain.

Denver Bulletin for 1932

3.

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
10	June 3	III	i _N i _N i _{SE} i _{SE} i _{SEN} i _{SEN} i _{MEN} F	10 42 24 Dilat. 10 42 30 Comp. 10 45 13 10 45 32 10 45 43 10 45 46 10 47 33 13 00 $\pm$	
11	June 4	I	e _{SEN} e _{MEN} F	21 47 00 21 49 30 22 00 $\pm$	
12	June 5	I	e _{SN} e _{LE} F	9 12 42 9 15 25 9 35 $\pm$	
13	June 6	I	e _{PE} i _{PE} e _{SN} i _{SN} i _{MN} F	8 47 53 8 47 59 8 50 45 8 50 50 8 52 44 9 20 $\pm$	Epicenter: 42°2' N. 124°W. Destructive at Eureka, California. Time uncertain.
14	June 9	I	e _E e _{LE} F	3 44 12 3 46 26 4 00 $\pm$	
15	June 13	III	e _{PN} i _{PN} i _{EN} i _{EN} i _E i _{SE} i _E i _{MEN} i _{MEN} F	10 17 09 10 17 33 10 17 46 10 17 52 10 21 25 10 21 47 10 22 04 10 23 53 10 24 20 12 40 $\pm$	Epicenter: 18°8' N. 104°5'W. Destructive in S. W. part of Mexico. Time uncertain.

Denver Bulletin for 1932

4.

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
16	June 20	I	eP _E	9 30 23	
			eL _N	9 37 00	
			F	9 45 $\pm$	
17	June 22	II	eP _{EN}	13 04 12	Epicenter: 17 ⁰ .3 N. 103 ⁰ .5W. Destructive in S. W. por- tion of Mexico. Tidal wave destroys Cuyutlan. Time uncertain.
			i _{EN}	13 05 01	
			eS _{EN}	13 08 00	
			i _{EN}	13 08 25	
			i _E	13 09 13	
			eL _E	13 10 40	
			iM _{EN}	13 11 04	
			F	14 15 $\pm$	

1932

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature, International.

FROM JULY 7, 1932 TO OCTOBER 16, 1932 .

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
18	July 7	I	iM _{EN} F	16 24 50 16 50 ±	P and S lost in changing records. Δ meas. $13^{\circ}7$
19	July 12	II	eP _N iP _N eS _E eL _E iL _{EN} iM _N F	19 27 32 19 27 33 19 30 15 19 31 13 19 31 59 19 32 54 20 10 ±	Δ_{S-P} $14^{\circ}4$ Epicenter $25^{\circ}6$ N. $110^{\circ}5$ W. Very long period.
20	July 25	I	eP _N eS _E iM _{EN} F	9 17 37 9 21 42 9 23 53 9 50 ±	Δ_{S-P} $22^{\circ}5$ Epicenter $17^{\circ}2$ N. 104° W.
21	September 8	I	eP _{EN} eS _N F	1 45 52 1 50 00 2 20 ±	Δ_{S-P} 23° Epicenter 17° N. 104° W.
22	September 26	I	eP _N eP _{R1N} eN eM _{EN} F	19 33 38 19 37 14 19 44 42 20 06 30 20 30 ±	Δ meas. 88° Destructive in Greece near Mt. Athos.

FROM JULY 7, 1952 TO OCTOBER 16, 1952

6.

Denver Bulletin for 1932

No.	Date	Char.	Phase	G.M.Time h. m. s.	Remarks
23	October 2	I	eP _E	2 05 42	Δ_{S-P} 33 ⁰ .3 Epicenter 11 ⁰ N. 86 ⁰ .5 W
			eS _E	2 11 10	
			eM _{EN}	2 18 44	
			F	2 40 $\pm$	
24	October 11	I	eP _E	19 11 56	Δ meas. 15 ⁰ .3 Epicenter 25 ⁰ N. 110 ⁰ .5W.
			eM _E	19 17 50	
			F	19 20 $\pm$	
25	October 16	I	eP _{EN}	12 15 27	Δ meas. 35 ⁰ .9 Epicenter 55 ⁰ N. 155 ⁰ W.
			eM _{EN}	12 30 10	
			F	12 40 $\pm$	

Denver Bulletin for 1932

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
23	October 2	I	eP _E eS _E eM _{EN} F	2 05 42 2 11 10 2 18 44 2 40 $\pm$	Δ_{S-P} 33 ⁰ .3 Epicenter 11 ⁰ N. 86 ⁰ .5 W
24	October 11	I	eP _E eM _E F	19 11 56 19 17 50 19 20 $\pm$	Δ meas. 15 ⁰ .3 Epicenter 25 ⁰ N. 110 ⁰ .5W.
25	October 16	I	eP _{EN} eM _{EN} F	12 15 27 12 30 10 12 40 $\pm$	Δ meas. 35 ⁰ .9 Epicenter 55 ⁰ N. 155 ⁰ W.

Earthquake Catalogue for 1952

No.	Date	Char.	Phase	G.M. Time L.M. S.	Remarks
50	October 2	I	epz	2 00 42 2 11 10 2 18 44 2 40 1	Δ area 33°E Episenter 11°N. 86°E W
51	October 11	I	epz	12 11 56 12 17 50 12 20 1	Δ area 15°E Episenter 25°N. 110°W
52	October 16	I	epz	12 15 27 12 16 10 12 40 1	Δ area 35°E Episenter 55°N. 155°W

WATER FALLS

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature, International.

FROM November 17

TO December 26

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
26	November 17	I	ePN eS _N iM _{EN} F	6 07 33 6 11 31 6 13 30 6 35 $\pm$	Epicenter: $17^{\circ}7'$ N., $103^{\circ}5'$ W. Δ_{S-P} 21 $^{\circ}8'$
27	December 7	II	iPN iN iS iM _{EN} i _{EN} F	4 26 58 4 27 15 4 30 55 4 33 11 4 35 04 5 10 $\pm$	Epicenter $18^{\circ}2'$ N., $103^{\circ}5'$ W. Δ_{S-P} 21 $^{\circ}7'$
28	December 21	III	iPE iE iE iE iE i _{EN} iN iS _{EN} iN i _{EN} iM _E F	6 11 37 6 11 41 6 11 44 6 11 49 6 12 03 6 12 18 6 12 29 6 13 30 6 13 43 6 13 59 6 14 19 7 15 $\pm$	[Compr] Epicenter near $38^{\circ}5'$ N., $118^{\circ}0'$ W. Felt from Los Angeles to Rawlins, Wyoming. Δ_{S-P} 10 $^{\circ}3'$
29	December 22	I	eN iM _N F	12 35 42 12 38 11 12 40 $\pm$	

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Meters
 Longitude: 104° 55' 55" W. Lat.: 39° 40' 30" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Westport 80 Kc., a standard horizontal pendulum.
 Name: International

PROG. November 17 TO December 28

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
26	November 17	I	epk	6 07 33	Epikent: 1917 N.
			esh	6 11 31	10315 W.
			imw	6 13 30	Δ-S-P 2198
			f	6 35 1	
27	December 7	II	imw	4 30 58	Epikent: 1892 N.
			imw	4 37 15	10323 W.
			imw	4 30 55	Δ-S-P 2197
			imw	4 35 41	
			imw	4 38 04	
			f	6 10 1	
28	December 21	III	imw	6 11 37	Epikent: 1917 N.
			imw	6 11 41	10315 W.
			imw	6 11 44	Δ-S-P 1093
			imw	6 12 03	
			imw	6 12 18	
			imw	6 12 29	
			imw	6 13 30	
			imw	6 13 43	
			imw	6 13 59	
			imw	6 14 19	
			f	7 15 1	
29	December 28	I	en	12 35 48	
			imw	12 38 11	
			f	12 40 1	

Denver Bulletin for 1932

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
30	December 25	I	e _N	2 22 27	Destructive in Suchaw, China
			i _N	2 22 58	
			i _{EN}	2 29 17	
			e _N	2 31 15	
			e _N	2 36 47	
			e _N	2 41 00	
			e _{LN}	2 51 00	
			e _{LN}	2 56 00	
			F	3 45 ⁺ ₋	
31	December 26	I	i _{EN}	5 07 41	
			F	5 10 ⁺ ₋	

Denver Bulletin for 1932

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
30	December 25	I	e _N	2 22 27	Destructive in Suchaw, China
			i _N	2 22 58	
			i _{EN}	2 29 17	
			e _N	2 31 15	
			e _N	2 36 47	
			e _N	2 41 00	
			e _{LN}	2 51 00	
			e _{MN}	2 56 00	
			F	3 45 ⁺ ₋	
31	December 26	I	i _{MEN}	5 07 41	
			F	5 10 ⁺ ₋	

Denver Bulletin 1958

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
30	December 25	I	SM	2 22 57	Destructive in
			IN	2 22 58	Szechwan, China
			LEN	2 23 17	
			SN	2 21 45	
			SN	2 22 47	
			SN	2 41 00	
			SN	2 51 00	
			SN	2 55 00	
			SN	2 55 10	
31	December 26	I	LEN	2 07 41	
			SN	2 10 10	

1933

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature, International.

FROM January 4

TO January 24

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
1	January 4	I	eS _N eM _{EN} F	4 11 30 4 17 43 4 25 ±	Alaska 60°3 N., 145°W.
2	January 5	I	eE eE iM _N F	6 55 08 6 55 41 6 56 15 7 00 ±	
3	January 21	I	eM _E F	20 49 00 21 00 ±	Indian Ocean. 41° S., 59° E.
4	January 24	I	eP _N eS _E iE iM _{EN} F	15 43 53 15 47 46 15 48 29 15 50 16 00 ±	Felt in Mexico City and State of Michoacan.

D E N V E R

RECORD OF THE EARTHQUAKE STATION
Hofstadter, Denver, Colorado

Station: 1855 Met.
Date: 104° 55' 54" W. Fr. Lat. 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiechert 80 K.G., a static horizontal pendulum.
Remarks: Information furnished by the station.

January 24

TO

January 24

FROM

No.	Date	Time	Phase	Remarks
1	January 24	4 11 30	SH	Alaska 1850W.
2	January 24	4 11 30	SH	Alaska 1850W.
3	January 24	4 11 30	SH	Alaska 1850W.
4	January 24	4 11 30	SH	Alaska 1850W.
5	January 24	4 11 30	SH	Alaska 1850W.
6	January 24	4 11 30	SH	Alaska 1850W.
7	January 24	4 11 30	SH	Alaska 1850W.
8	January 24	4 11 30	SH	Alaska 1850W.
9	January 24	4 11 30	SH	Alaska 1850W.
10	January 24	4 11 30	SH	Alaska 1850W.
11	January 24	4 11 30	SH	Alaska 1850W.
12	January 24	4 11 30	SH	Alaska 1850W.
13	January 24	4 11 30	SH	Alaska 1850W.
14	January 24	4 11 30	SH	Alaska 1850W.
15	January 24	4 11 30	SH	Alaska 1850W.
16	January 24	4 11 30	SH	Alaska 1850W.
17	January 24	4 11 30	SH	Alaska 1850W.
18	January 24	4 11 30	SH	Alaska 1850W.
19	January 24	4 11 30	SH	Alaska 1850W.
20	January 24	4 11 30	SH	Alaska 1850W.
21	January 24	4 11 30	SH	Alaska 1850W.
22	January 24	4 11 30	SH	Alaska 1850W.
23	January 24	4 11 30	SH	Alaska 1850W.
24	January 24	4 11 30	SH	Alaska 1850W.
25	January 24	4 11 30	SH	Alaska 1850W.
26	January 24	4 11 30	SH	Alaska 1850W.
27	January 24	4 11 30	SH	Alaska 1850W.
28	January 24	4 11 30	SH	Alaska 1850W.
29	January 24	4 11 30	SH	Alaska 1850W.
30	January 24	4 11 30	SH	Alaska 1850W.
31	January 24	4 11 30	SH	Alaska 1850W.
32	January 24	4 11 30	SH	Alaska 1850W.
33	January 24	4 11 30	SH	Alaska 1850W.
34	January 24	4 11 30	SH	Alaska 1850W.
35	January 24	4 11 30	SH	Alaska 1850W.
36	January 24	4 11 30	SH	Alaska 1850W.
37	January 24	4 11 30	SH	Alaska 1850W.
38	January 24	4 11 30	SH	Alaska 1850W.
39	January 24	4 11 30	SH	Alaska 1850W.
40	January 24	4 11 30	SH	Alaska 1850W.
41	January 24	4 11 30	SH	Alaska 1850W.
42	January 24	4 11 30	SH	Alaska 1850W.
43	January 24	4 11 30	SH	Alaska 1850W.
44	January 24	4 11 30	SH	Alaska 1850W.
45	January 24	4 11 30	SH	Alaska 1850W.
46	January 24	4 11 30	SH	Alaska 1850W.
47	January 24	4 11 30	SH	Alaska 1850W.
48	January 24	4 11 30	SH	Alaska 1850W.
49	January 24	4 11 30	SH	Alaska 1850W.
50	January 24	4 11 30	SH	Alaska 1850W.
51	January 24	4 11 30	SH	Alaska 1850W.
52	January 24	4 11 30	SH	Alaska 1850W.
53	January 24	4 11 30	SH	Alaska 1850W.
54	January 24	4 11 30	SH	Alaska 1850W.
55	January 24	4 11 30	SH	Alaska 1850W.
56	January 24	4 11 30	SH	Alaska 1850W.
57	January 24	4 11 30	SH	Alaska 1850W.
58	January 24	4 11 30	SH	Alaska 1850W.
59	January 24	4 11 30	SH	Alaska 1850W.
60	January 24	4 11 30	SH	Alaska 1850W.
61	January 24	4 11 30	SH	Alaska 1850W.
62	January 24	4 11 30	SH	Alaska 1850W.
63	January 24	4 11 30	SH	Alaska 1850W.
64	January 24	4 11 30	SH	Alaska 1850W.
65	January 24	4 11 30	SH	Alaska 1850W.
66	January 24	4 11 30	SH	Alaska 1850W.
67	January 24	4 11 30	SH	Alaska 1850W.
68	January 24	4 11 30	SH	Alaska 1850W.
69	January 24	4 11 30	SH	Alaska 1850W.
70	January 24	4 11 30	SH	Alaska 1850W.
71	January 24	4 11 30	SH	Alaska 1850W.
72	January 24	4 11 30	SH	Alaska 1850W.
73	January 24	4 11 30	SH	Alaska 1850W.
74	January 24	4 11 30	SH	Alaska 1850W.
75	January 24	4 11 30	SH	Alaska 1850W.
76	January 24	4 11 30	SH	Alaska 1850W.
77	January 24	4 11 30	SH	Alaska 1850W.
78	January 24	4 11 30	SH	Alaska 1850W.
79	January 24	4 11 30	SH	Alaska 1850W.
80	January 24	4 11 30	SH	Alaska 1850W.
81	January 24	4 11 30	SH	Alaska 1850W.
82	January 24	4 11 30	SH	Alaska 1850W.
83	January 24	4 11 30	SH	Alaska 1850W.
84	January 24	4 11 30	SH	Alaska 1850W.
85	January 24	4 11 30	SH	Alaska 1850W.
86	January 24	4 11 30	SH	Alaska 1850W.
87	January 24	4 11 30	SH	Alaska 1850W.
88	January 24	4 11 30	SH	Alaska 1850W.
89	January 24	4 11 30	SH	Alaska 1850W.
90	January 24	4 11 30	SH	Alaska 1850W.
91	January 24	4 11 30	SH	Alaska 1850W.
92	January 24	4 11 30	SH	Alaska 1850W.
93	January 24	4 11 30	SH	Alaska 1850W.
94	January 24	4 11 30	SH	Alaska 1850W.
95	January 24	4 11 30	SH	Alaska 1850W.
96	January 24	4 11 30	SH	Alaska 1850W.
97	January 24	4 11 30	SH	Alaska 1850W.
98	January 24	4 11 30	SH	Alaska 1850W.
99	January 24	4 11 30	SH	Alaska 1850W.
100	January 24	4 11 30	SH	Alaska 1850W.

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis. College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature, International.

FROM January 4

TO January 24

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
1	January 4	I	eS _N eM _{EN} F	4 11 30 4 17 43 4 25 ±	Alaska $60^{\circ} 3' N.$, $145^{\circ} W.$
2	January 5	I	eE eE iM _N F	6 55 08 6 55 41 6 56 15 7 00 ±	
3	January 21	I	eM _E F	20 49 00 21 00 ±	Indian Ocean. $41^{\circ} S.$, $59^{\circ} E.$
4	January 24	I	eP _N eS _E iE iM _{EN} F	15 43 53 15 47 46 15 48 29 15 50 16 00 ±	Felt in Mexico City and State of Michoacan.

D E W V A R

RECORD OF THE SEISMIC STATION Regis College, Denver, Colorado

Altitude: 1855 Met
Long: 104° 56' 34" W. Lat: 39° 40' 35" N.
Time: Mean Greenwich midnight to midnight
Instrument: Wescott 80 Kc., a static horizontal pendulum.
Nomenclature: International

FROM January 24 TO January 24

No.	Date	Char.	Phase	C.M. Time h. m. s.	Remarks
1	January 24	I	SP	4 11 30	Alaska 6095 N.
				4 17 45	
				4 23 +	
2	January 25	I	SP	8 52 08	
				8 52 41	
				8 56 15	
				9 00 +	
3	January 26	I	SP	20 49 00	Indian Ocean.
				21 00 +	41° S., 59° E.
4	January 24	I	SP	18 13 53	Belit in Mexico City
				18 47 48	and State of Michoacan.
				18 48 29	
				18 50	
				18 50 +	
				18 52	
				18 54	
				18 56	
				18 58	
				19 00	

1933

2.

D E N V E R
 RECORD OF THE EARTHQUAKE STATION
 Regis College, Denver, Colorado

Altitude: 1655 Met.
 Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature, International.

FROM February 23 TO May 8

No.	Date	Char.	Phase	G.M. Time h.m.s.	Remarks
5	February 23	II	oPN oSE iE oME F	8 20 19 8 29 10 8 30 17 8 44 00 9 20 $\pm$	Deep Focus Felt at Iquique, Chile Δ 66.8
6	March 2	II	oPEN oSE iEN oLEN F	17 43 04 17 52 05 17 52 46 18 03 00 20 00 $\pm$	Destruction in Japan Epicenter $39^{\circ} 5' N$ $143^{\circ} E$ Δ 79.3
7	March 11	I	oE iE iSEN iE iME F	1 57 11 1 58 08 1 59 19 1 59 37 2 00 30 3 00 $\pm$	Destructive at Long Beach, California $\Delta = 12^{\circ}$
8	April 9	I	oPEN oE oSE oME F	4 02 55 4 03 15 4 06 48 4 09 23 4 40 $\pm$	Epicenter $18^{\circ} 7' N$ $106^{\circ} 8' W$ $\Delta = 21^{\circ}$

1933

RECORD OF THE EARTHQUAKE STATION

Davis College, Denver, Colorado

Instrument: Wiscohert 80 Kg., a seismio horizontal pendulum.
 Time: Mean Greenwich, midnight to midnight.
 Loc: 104° 58' 54" W., 39° 40' 38" N.
 Altitude: 1655 m.

May 8

TO

February 23

FROM

No.	Date	Phase	G.M. Time	Remarks
5	February 23	II	8:20:10	Deep focus, felt at Laramie, Ohio A 6878
6	March 2	II	17:20:04	Deep focus, felt at Laramie, Ohio A 7523
7	March 13	I	1:00:00	Deep focus, felt at Laramie, Ohio A 1200
8	April 3	I	4:00:00	Deep focus, felt at Laramie, Ohio A 1000

1933

2.

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.
 Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature, International.

FROM February 23 TO May 8

No.	Date	Char.	Phase	G.M. Time h.m.s.	Remarks
5	February 23	II	oPN oSE iE oME F	8 20 19 8 29 10 8 30 17 8 44 00 9 20 $\pm$	Deep Focus Felt at Iquique, Chile Δ 66 $^{\circ}$ 8
6	March 2	II	oPEN oSE iEN oLEN F	17 43 04 17 52 05 17 52 46 18 03 00 20 00 $\pm$	Destruction in Japan Epicenter 39° 5 N 143° E Δ 79 $^{\circ}$ 3
7	March 11	I	oE iE iSEN iE iME F	1 57 11 1 58 08 1 59 19 1 59 37 2 00 30 3 00 $\pm$	Destructive at Long Beach, California Δ = 12 $^{\circ}$
8	April 9	I	oPEN oE oSE oME F	4 02 55 4 03 15 4 06 48 4 09 23 4 40 $\pm$	Epicenter 18° 7 N 106° 8 W Δ = 21 $^{\circ}$

1933

DENVER

RECORDS AT THE EARTHQUAKE STATION

Baris Station, Denver, Colorado

Altitude: 1655 feet
 Time: Mean Greenwich, 1933
 Instrument: 20 kg. vertical pendulum
 Wavelength: 1000 m.

May 3

February 23

March 2

No.	Date	Time	Phase	Remarks
1	February 23	8:30:12	W	Deep focus
2	February 23	8:30:40	W	Wells at Indian
3	February 23	8:30:57	W	Wells at Indian
4	February 23	8:31:00	W	Wells at Indian
5	February 23	8:31:00	W	Wells at Indian
6	February 23	8:31:00	W	Wells at Indian
7	February 23	8:31:00	W	Wells at Indian
8	February 23	8:31:00	W	Wells at Indian
9	February 23	8:31:00	W	Wells at Indian
10	February 23	8:31:00	W	Wells at Indian
11	February 23	8:31:00	W	Wells at Indian
12	February 23	8:31:00	W	Wells at Indian
13	February 23	8:31:00	W	Wells at Indian
14	February 23	8:31:00	W	Wells at Indian
15	February 23	8:31:00	W	Wells at Indian
16	February 23	8:31:00	W	Wells at Indian
17	February 23	8:31:00	W	Wells at Indian
18	February 23	8:31:00	W	Wells at Indian
19	February 23	8:31:00	W	Wells at Indian
20	February 23	8:31:00	W	Wells at Indian
21	February 23	8:31:00	W	Wells at Indian
22	February 23	8:31:00	W	Wells at Indian
23	February 23	8:31:00	W	Wells at Indian
24	February 23	8:31:00	W	Wells at Indian
25	February 23	8:31:00	W	Wells at Indian
26	February 23	8:31:00	W	Wells at Indian
27	February 23	8:31:00	W	Wells at Indian
28	February 23	8:31:00	W	Wells at Indian
29	February 23	8:31:00	W	Wells at Indian
30	February 23	8:31:00	W	Wells at Indian
31	February 23	8:31:00	W	Wells at Indian
32	February 23	8:31:00	W	Wells at Indian
33	February 23	8:31:00	W	Wells at Indian
34	February 23	8:31:00	W	Wells at Indian
35	February 23	8:31:00	W	Wells at Indian
36	February 23	8:31:00	W	Wells at Indian
37	February 23	8:31:00	W	Wells at Indian
38	February 23	8:31:00	W	Wells at Indian
39	February 23	8:31:00	W	Wells at Indian
40	February 23	8:31:00	W	Wells at Indian
41	February 23	8:31:00	W	Wells at Indian
42	February 23	8:31:00	W	Wells at Indian
43	February 23	8:31:00	W	Wells at Indian
44	February 23	8:31:00	W	Wells at Indian
45	February 23	8:31:00	W	Wells at Indian
46	February 23	8:31:00	W	Wells at Indian
47	February 23	8:31:00	W	Wells at Indian
48	February 23	8:31:00	W	Wells at Indian
49	February 23	8:31:00	W	Wells at Indian
50	February 23	8:31:00	W	Wells at Indian
51	February 23	8:31:00	W	Wells at Indian
52	February 23	8:31:00	W	Wells at Indian
53	February 23	8:31:00	W	Wells at Indian
54	February 23	8:31:00	W	Wells at Indian
55	February 23	8:31:00	W	Wells at Indian
56	February 23	8:31:00	W	Wells at Indian
57	February 23	8:31:00	W	Wells at Indian
58	February 23	8:31:00	W	Wells at Indian
59	February 23	8:31:00	W	Wells at Indian
60	February 23	8:31:00	W	Wells at Indian
61	February 23	8:31:00	W	Wells at Indian
62	February 23	8:31:00	W	Wells at Indian
63	February 23	8:31:00	W	Wells at Indian
64	February 23	8:31:00	W	Wells at Indian
65	February 23	8:31:00	W	Wells at Indian
66	February 23	8:31:00	W	Wells at Indian
67	February 23	8:31:00	W	Wells at Indian
68	February 23	8:31:00	W	Wells at Indian
69	February 23	8:31:00	W	Wells at Indian
70	February 23	8:31:00	W	Wells at Indian
71	February 23	8:31:00	W	Wells at Indian
72	February 23	8:31:00	W	Wells at Indian
73	February 23	8:31:00	W	Wells at Indian
74	February 23	8:31:00	W	Wells at Indian
75	February 23	8:31:00	W	Wells at Indian
76	February 23	8:31:00	W	Wells at Indian
77	February 23	8:31:00	W	Wells at Indian
78	February 23	8:31:00	W	Wells at Indian
79	February 23	8:31:00	W	Wells at Indian
80	February 23	8:31:00	W	Wells at Indian
81	February 23	8:31:00	W	Wells at Indian
82	February 23	8:31:00	W	Wells at Indian
83	February 23	8:31:00	W	Wells at Indian
84	February 23	8:31:00	W	Wells at Indian
85	February 23	8:31:00	W	Wells at Indian
86	February 23	8:31:00	W	Wells at Indian
87	February 23	8:31:00	W	Wells at Indian
88	February 23	8:31:00	W	Wells at Indian
89	February 23	8:31:00	W	Wells at Indian
90	February 23	8:31:00	W	Wells at Indian
91	February 23	8:31:00	W	Wells at Indian
92	February 23	8:31:00	W	Wells at Indian
93	February 23	8:31:00	W	Wells at Indian
94	February 23	8:31:00	W	Wells at Indian
95	February 23	8:31:00	W	Wells at Indian
96	February 23	8:31:00	W	Wells at Indian
97	February 23	8:31:00	W	Wells at Indian
98	February 23	8:31:00	W	Wells at Indian
99	February 23	8:31:00	W	Wells at Indian
100	February 23	8:31:00	W	Wells at Indian

Recorder
 1877 N 102.8 W
 A = 210

3.

Denver Bulletin for 1933

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
9	April 27	II	eP _E	2 43 02	Epicenter: Alaska 60°7' N 148°8' W
			i _E	2 45 08	
			eS _E	2 48 28	
			iM _N	2 55 08	
			F	4 10 [±]	
10	May 8	I	eP _N	10 38 49	Epicenter 16°3' N 101°2' W Δ = 23°5'
			eS _E	10 42 59	
			iM _E	10 45 39	
			F	11 20 [±]	

3.

Denver Bulletin for 1933

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
9	April 27	II	eP _E	2 43 02	Epicenter: Alaska 60°7 N 148°8 W
			i _E	2 45 08	
			eS _E	2 48 28	
			iM _N	2 55 08	
			F	4 10 [±]	
10	May 8	I	eP _N	10 38 49	Epicenter 16°3 N 101°2 W Δ = 23°5
			eS _E	10 42 59	
			iM _E	10 45 39	
			F	11 20 [±]	

1933

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.
 Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature, International.

For: October, November and December

No.	Date	Phase	G.M. Time h m s	Remarks
18	November 20	iP	23-28-52	S-P= 5-42
		iS	23-34-34	$\Delta=34^{\circ}5$
		iL	23-39-30	P-H=6-57
		iM	23-42-00	H=23-21-55
	November 21	F	01-30±	
19	December 14	Seismic activity centering around 07h (G.M.T.)		

James B. Macelwane, S.J.
Director

Donald C. Bradford
Assistant

1934: p 5, 6, 7, 8 nlt

DENVER

ERRATUM

Please destroy page five of the RECORD
OF THE EARTHQUAKE STATION for 1934 pre-
viously issued and replace it by the new
page five here enclosed.

The Director

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W.Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature, International.FROM January TO March

No.	Date	Phase	G.M. Time h m s	Remarks
1	January 15	Long waves corresponding to Indian Earthquake. Indistinct.		
2	January 19	iP S eL iM F	08-14-40 08-18-54 08-21-24 08-23-30 08-50±	S-P=4-14 $\Delta(S-P)=23^{\circ}4$ P-H=5-09 H=07-09-31
3	January 30	Seismic activity centering around 19h-30m.		
4	January 30	eP _n eS F	20-19-06 20-21-11 20-35±	Nevada Quake $\Delta=10^{\circ}8$ H=20-16-27
5	February 14	Seismic activity centering around 22h-29m.		
6	March 12	eP _n iS _n iL	15-07-12 15-08-18 15-10-05	$\Delta=5^{\circ}7$
7	March 12	Good record of second Utah quake, but time was uncertain. Record started just at beginning of P.		

James B. Macelwane, S.J.
DirectorDonald C. Bradford
Assistant

D E N V E R
RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W.

Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80Kg., a static horizontal pendulum.
Nomenclature, International.

FROM March 24 TO April 14

No.	Date	Phase	G.M. Time h m s	Remarks
8	March 24	eP(?) ePR ₁ ePR ₂ e ePS e eSR ₁ L(?) M M F	12-18-36 12-23-03 12-25-05 12-31-06 12-32-16 12-36-28 12-38-07 12-39-45 12-55-00 13-00-20 13-38	Solomon Islands $\Delta(\text{meas})=109^{\circ}$
9	April 7	eN eE iP* _N iN iN iP _E iE iS _N iS _E iS* _{EN} iS _{EN} iM _{EN} M _{1N} M _{2N} M _{3N} F	02-16-18 02-16-19 02-16-26 02-16-35 02-16-39 02-16-46 02-17-15 02-17-19 02-17-20 02-17-36 02-17-43 02-17-51 02-17-54 02-17-59 02-18-04 02-30	Felt in Salt Lake City $\Delta(\text{S-P})=4.3^{\circ}$
10	April 14	iP* _{EN} iP _{EN} iS _{EN} iS _{EN} F	21-28-15 21-28-32 21-29-10 21-29-47 21-50	Felt in Salt Lake City, Utah $\Delta(\text{S-P})=5.6^{\circ}$

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Reels College, Denver, Colorado

RECEIVED

AL-114961 1969 May 1

Instrument: Wheeler 6024, a static force balance

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SY LINGA

No.	Date	Phase	G.M. Time	Remarks
8	March 24	12:11 12:12 12:13 12:14 12:15 12:16 12:17 12:18 12:19 12:20 12:21 12:22 12:23 12:24 12:25 12:26 12:27 12:28 12:29 12:30 12:31 12:32 12:33 12:34 12:35 12:36 12:37 12:38 12:39 12:40 12:41 12:42 12:43 12:44 12:45 12:46 12:47 12:48 12:49 12:50 12:51 12:52 12:53 12:54 12:55 12:56 12:57 12:58 12:59 13:00 13:01 13:02 13:03 13:04 13:05 13:06 13:07 13:08 13:09 13:10 13:11 13:12 13:13 13:14 13:15 13:16 13:17 13:18 13:19 13:20 13:21 13:22 13:23 13:24 13:25 13:26 13:27 13:28 13:29 13:30 13:31 13:32 13:33 13:34 13:35 13:36 13:37 13:38 13:39 13:40 13:41 13:42 13:43 13:44 13:45 13:46 13:47 13:48 13:49 13:50 13:51 13:52 13:53 13:54 13:55 13:56 13:57 13:58 13:59 14:00 14:01 14:02 14:03 14:04 14:05 14:06 14:07 14:08 14:09 14:10 14:11 14:12 14:13 14:14 14:15 14:16 14:17 14:18 14:19 14:20 14:21 14:22 14:23 14:24 14:25 14:26 14:27 14:28 14:29 14:30 14:31 14:32 14:33 14:34 14:35 14:36 14:37 14:38 14:39 14:40 14:41 14:42 14:43 14:44 14:45 14:46 14:47 14:48 14:49 14:50 14:51 14:52 14:53 14:54 14:55 14:56 14:57 14:58 14:59 15:00 15:01 15:02 15:03 15:04 15:05 15:06 15:07 15:08 15:09 15:10 15:11 15:12 15:13 15:14 15:15 15:16 15:17 15:18 15:19 15:20 15:21 15:22 15:23 15:24 15:25 15:26 15:27 15:28 15:29 15:30 15:31 15:32 15:33 15:34 15:35 15:36 15:37 15:38 15:39 15:40 15:41 15:42 15:43 15:44 15:45 15:46 15:47 15:48 15:49 15:50 15:51 15:52 15:53 15:54 15:55 15:56 15:57 15:58 15:59 16:00 16:01 16:02 16:03 16:04 16:05 16:06 16:07 16:08 16:09 16:10 16:11 16:12 16:13 16:14 16:15 16:16 16:17 16:18 16:19 16:20 16:21 16:22 16:23 16:24 16:25 16:26 16:27 16:28 16:29 16:30 16:31 16:32 16:33 16:34 16:35 16:36 16:37 16:38 16:39 16:40 16:41 16:42 16:43 16:44 16:45 16:46 16:47 16:48 16:49 16:50 16:51 16:52 16:53 16:54 16:55 16:56 16:57 16:58 16:59 17:00 17:01 17:02 17:03 17:04 17:05 17:06 17:07 17:08 17:09 17:10 17:11 17:12 17:13 17:14 17:15 17:16 17:17 17:18 17:19 17:20 17:21 17:22 17:23 17:24 17:25 17:26 17:27 17:28 17:29 17:30 17:31 17:32 17:33 17:34 17:35 17:36 17:37 17:38 17:39 17:40 17:41 17:42 17:43 17:44 17:45 17:46 17:47 17:48 17:49 17:50 17:51 17:52 17:53 17:54 17:55 17:56 17:57 17:58 17:59 18:00 18:01 18:02 18:03 18:04 18:05 18:06 18:07 18:08 18:09 18:10 18:11 18:12 18:13 18:14 18:15 18:16 18:17 18:18 18:19 18:20 18:21 18:22 18:23 18:24 18:25 18:26 18:27 18:28 18:29 18:30 18:31 18:32 18:33 18:34 18:35 18:36 18:37 18:38 18:39 18:40 18:41 18:42 18:43 18:44 18:45 18:46 18:47 18:48 18:49 18:50 18:51 18:52 18:53 18:54 18:55 18:56 18:57 18:58 18:59 19:00 19:01 19:02 19:03 19:04 19:05 19:06 19:07 19:08 19:09 19:10 19:11 19:12 19:13 19:14 19:15 19:16 19:17 19:18 19:19 19:20 19:21 19:22 19:23 19:24 19:25 19:26 19:27 19:28 19:29 19:30 19:31 19:32 19:33 19:34 19:35 19:36 19:37 19:38 19:39 19:40 19:41 19:42 19:43 19:44 19:45 19:46 19:47 19:48 19:49 19:50 19:51 19:52 19:53 19:54 19:55 19:56 19:57 19:58 19:59 20:00 20:01 20:02 20:03 20:04 20:05 20:06 20:07 20:08 20:09 20:10 20:11 20:12 20:13 20:14 20:15 20:16 20:17 20:18 20:19 20:20 20:21 20:22 20:23 20:24 20:25 20:26 20:27 20:28 20:29 20:30 20:31 20:32 20:33 20:34 20:35 20:36 20:37 20:38 20:39 20:40 20:41 20:42 20:43 20:44 20:45 20:46 20:47 20:48 20:49 20:50 20:51 20:52 20:53 20:54 20:55 20:56 20:57 20:58 20:59 21:00 21:01 21:02 21:03 21:04 21:05 21:06 21:07 21:08 21:09 21:10 21:11 21:12 21:13 21:14 21:15 21:16 21:17 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:27 21:28 21:29 21:30 21:31 21:32 21:33 21:34 21:35 21:36 21:37 21:38 21:39 21:40 21:41 21:42 21:43 21:44 21:45 21:46 21:47 21:48 21:49 21:50 21:51 21:52 21:53 21:54 21:55 21:56 21:57 21:58 21:59 22:00 22:01 22:02 22:03 22:04 22:05 22:06 22:07 22:08 22:09 22:10 22:11 22:12 22:13 22:14 22:15 22:16 22:17 22:18 22:19 22:20 22:21 22:22 22:23 22:24 22:25 22:26 22:27 22:28 22:29 22:30 22:31 22:32 22:33 22:34 22:35 22:36 22:37 22:38 22:39 22:40 22:41 22:42 22:43 22:44 22:45 22:46 22:47 22:48 22:49 22:50 22:51 22:52 22:53 22:54 22:55 22:56 22:57 22:58 22:59 23:00 23:01 23:02 23:03 23:04 23:05 23:06 23:07 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:23 23:24 23:25 23:26 23:27 23:28 23:29 23:30 23:31 23:32 23:33 23:34 23:35 23:36 23:37 23:38 23:39 23:40 23:41 23:42 23:43 23:44 23:45 23:46 23:47 23:48 23:49 23:50 23:51 23:52 23:53 23:54 23:55 23:56 23:57 23:58 23:59 24:00	Solomon Islands Δ (mss) = 102°	
9	April 7	12:11 12:12 12:13 12:14 12:15 12:16 12:17 12:18 12:19 12:20 12:21 12:22 12:23 12:24 12:25 12:26 12:27 12:28 12:29 12:30 12:31 12:32 12:33 12:34 12:35 12:36 12:37 12:38 12:39 12:40 12:41 12:42 12:43 12:44 12:45 12:46 12:47 12:48 12:49 12:50 12:51 12:52 12:53 12:54 12:55 12:56 12:57 12:58 12:59 13:00 13:01 13:02 13:03 13:04 13:05 13:06 13:07 13:08 13:09 13:10 13:11 13:12 13:13 13:14 13:15 13:16 13:17 13:18 13:19 13:20 13:21 13:22 13:23 13:24 13:25 13:26 13:27 13:28 13:29 13:30 13:31 13:32 13:33 13:34 13:35 13:36 13:37 13:38 13:39 13:40 13:41 13:42 13:43 13:44 13:45 13:46 13:47 13:48 13:49 13:50 13:51 13:52 13:53 13:54 13:55 13:56 13:57 13:58 13:59 14:00 14:01 14:02 14:03 14:04 14:05 14:06 14:07 14:08 14:09 14:10 14:11 14:12 14:13 14:14 14:15 14:16 14:17 14:18 14:19 14:20 14:21 14:22 14:23 14:24 14:25 14:26 14:27 14:28 14:29 14:30 14:31 14:32 14:33 14:34 14:35 14:36 14:37 14:38 14:39 14:40 14:41 14:42 14:43 14:44 14:45 14:46 14:47 14:48 14:49 14:50 14:51 14:52 14:53 14:54 14:55 14:56 14:57 14:58 14:59 15:00 15:01 15:02 15:03 15:04 15:05 15:06 15:07 15:08 15:09 15:10 15:11 15:12 15:13 15:14 15:15 15:16 15:17 15:18 15:19 15:20 15:21 15:22 15:23 15:24 15:25 15:26 15:27 15:28 15:29 15:30 15:31 15:32 15:33 15:34 15:35 15:36 15:37 15:38 15:39 15:40 15:41 15:42 15:43 15:44 15:45 15:46 15:47 15:48 15:49 15:50 15:51 15:52 15:53 15:54 15:55 15:56 15:57 15:58 15:59 16:00 16:01 16:02 16:03 16:04 16:05 16:06 16:07 16:08 16:09 16:10 16:11 16:12 16:13 16:14 16:15 16:16 16:17 16:18 16:19 16:20 16:21 16:22 16:23 16:24 16:25 16:26 16:27 16:28 16:29 16:30 16:31 16:32 16:33 16:34 16:35 16:36 16:37 16:38 16:39 16:40 16:41 16:42 16:43 16:44 16:45 16:46 16:47 16:48 16:49 16:50 16:51 16:52 16:53 16:54 16:55 16:56 16:57 16:58 16:59 17:00 17:01 17:02 17:03 17:04 17:05 17:06 17:07 17:08 17:09 17:10 17:11 17:12 17:13 17:14 17:15 17:16 17:17 17:18 17:19 17:20 17:21 17:22 17:23 17:24 17:25 17:26 17:27 17:28 17:29 17:30 17:31 17:32 17:33 17:34 17:35 17:36 17:37 17:38 17:39 17:40 17:41 17:42 17:43 17:44 17:45 17:46 17:47 17:48 17:49 17:50 17:51 17:52 17:53 17:54 17:55 17:56 17:57 17:58 17:59 18:00 18:01 18:02 18:03 18:04 18:05 18:06 18:07 18:08 18:09 18:10 18:11 18:12 18:13 18:14 18:15 18:16 18:17 18:18 18:19 18:20 18:21 18:22 18:23 18:24 18:25 18:26 18:27 18:28 18:29 18:30 18:31 18:32 18:33 18:34 18:35 18:36 18:37 18:38 18:39 18:40 18:41 18:42 18:43 18:44 18:45 18:46 18:47 18:48 18:49 18:50 18:51 18:52 18:53 18:54 18:55 18:56 18:57 18:58 18:59 19:00 19:01 19:02 19:03 19:04 19:05 19:06 19:07 19:08 19:09 19:10 19:11 19:12 19:13 19:14 19:15 19:16 19:17 19:18 19:19 19:20 19:21 19:22 19:23 19:24 19:25 19:26 19:27 19:28 19:29 19:30 19:31 19:32 19:33 19:34 19:35 19:36 19:37 19:38 19:39 19:40 19:41 19:42 19:43 19:44 19:45 19:46 19:47 19:48 19:49 19:50 19:51 19:52 19:53 19:54 19:55 19:56 19:57 19:58 19:59 20:00 20:01 20:02 20:03 20:04 20:05 20:06 20:07 20:08 20:09 20:10 20:11 20:12 20:13 20:14 20:15 20:16 20:17 20:18 20:19 20:20 20:21 20:22 20:23 20:24 20:25 20:26 20:27 20:28 20:29 20:30 20:31 20:32 20:33 20:34 20:35 20:36 20:37 20:38 20:39 20:40 20:41 20:42 20:43 20:44 20:45 20:46 20:47 20:48 20:49 20:50 20:51 20:52 20:53 20:54 20:55 20:56 20:57 20:58 20:59 21:00 21:01 21:02 21:03 21:04 21:05 21:06 21:07 21:08 21:09 21:10 21:11 21:12 21:13 21:14 21:15 21:16 21:17 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:27 21:28 21:29 21:30 21:31 21:32 21:33 21:34 21:35 21:36 21:37 21:38 21:39 21:40 21:41 21:42 21:43 21:44 21:45 21:46 21:47 21:48 21:49 21:50 21:51 21:52 21:53 21:54 21:55 21:56 21:57 21:58 21:59 22:00 22:01 22:02 22:03 22:04 22:05 22:06 22:07 22:08 22:09 22:10 22:11 22:12 22:13 22:14 22:15 22:16 22:17 22:18 22:19 22:20 22:21 22:22 22:23 22:24 22:25 22:26 22:27 22:28 22:29 22:30 22:31 22:32 22:33 22:34 22:35 22:36 22:37 22:38 22:39 22:40 22:41 22:42 22:43 22:44 22:45 22:46 22:47 22:48 22:49 22:50 22:51 22:52 22:53 22:54 22:55 22:56 22:57 22:58 22:59 23:00 23:01 23:02 23:03 23:04 23:05 23:06 23:07 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:23 23:24 23:25 23:26 23:27 23:28 23:29 23:30 23:31 23:32 23:33 23:34 23:35 23:36 23:37 23:38 23:39 23:40 23:41 23:42 23:43 23:44 23:45 23:46 23:47 23:48 23:49 23:50 23:51 23:52 23:53 23:54 23:55 23:56 23:57 23:58 23:59 24:00	Felt in Salt Lake City, Utah Δ (R-P) = 59°	
10	April 14	12:11 12:12 12:13 12:14 12:15 12:16 12:17 12:18 12:19 12:20 12:21 12:22 12:23 12:24 12:25 12:26 12:27 12:28 12:29 12:30 12:31 12:32 12:33 12:34 12:35 12:36 12:37 12:38 12:39 12:40 12:41 12:42 12:43 12:44 12:45 12:46 12:47 12:48 12:49 12:50 12:51 12:52 12:53 12:54 12:55 12:56 12:57 12:58 12:59 13:00 13:01 13:02 13:03 13:04 13:05 13:06 13:07 13:08 13:09 13:10 13:11 13:12 13:13 13:14 13:15 13:16 13:17 13:18 13:19 13:20 13:21 13:22 13:23 13:24 13:25 13:26 13:27 13:28 13:29 13:30 13:31 13:32 13:33 13:34 13:35 13:36 13:37 13:38 13:39 13:40 13:41 13:42 13:43 13:44 13:45 13:46 13:47 13:48 13:49 13:50 13:51 13:52 13:53 13:54 13:55 13:56 13:57 13:58 13:59 14:00 14:01 14:02 14:03 14:04 14:05 14:06 14:07 14:08 14:09 14:10 14:11 14:12 14:13 14:14 14:15 14:16 14:17 14:18 14:19 14:20 14:21 14:22 14:23 14:24 14:25 14:26 14:27 14:28 14:29 14:30 14:31 14:32 14:33 14:34 14:35 14:36 14:37 14:38 14:39 14:40 14:41 14:42 14:43 14:44 14:45 14:46 14:47 14:48 14:49 14:50 14:51 14:52 14:53 14:54 14:55 14:56 14:57 14:58 14:59 15:00 15:01 15:02 15:03 15:04 15:05 15:06 15:07 15:08 15:09 15:10 15:11 15:12 15:13 15:14 15:15 15:16 15:17 15:18 15:19 15:20 15:21 15:22 15:23 15:24 15:25 15:26 15:27 15:28 15:29 15:30 15:31 15:32 15:33 15:34 15:35 15:36 15:37 15:38 15:39 15:40 15:41 15:42 15:43 15:44 15:45 15:46 15:47 15:48 15:49 15:50 15:51 15:52 15:53 15:54 15:55 15:56 15:57 15:58 15:59 16:00 16:01 16:02 16:03 16:04 16:05 16:06 16:07 16:08 16:09 16:10 16:11 16:12 16:13 16:14 16:15 16:16 16:17 16:18 16:19 16:20 16:21 16:22 16:23 16:24 16:25 16:26 16:27 16:28 16:29 16:30 16:31 16:32 16:33 16:34 16:35 16:36 16:37 16:38 16:39 16:40 16:41 16:42 16:43 16:44 16:45 16:46 16:47 16:48 16:49 16:50 16:51 16:52 16:53 16:54 16:55 16:56 16:57 16:58 16:59 17:00 17:01 17:02 17:03 17:04 17:05 17:06 17:07 17:08 17:09 17:10 17:11 17:12 17:13 17:14 17:15 17:16 17:17 17:18 17:19 17:20 17:21 17:22 17:23 17:24 17:25 17:26 17:27 17:28 17:29 17:30 17:31 17:32 17:33 17:34 17:35 17:36 17:37 17:38 17		

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W.Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature, International

FROM April 7

TO May 6

No.	Date	Phase	G.M. Time h m s	Remarks
11	April 17	$\bar{P}EN$ iEN iSE eSN iS^*E $i\bar{S}EN$ iEN iN F	14-47-59 14-48-16 14-48-44 14-48-44 14-49-05 14-49-14 14-49-23 14-49-47 15-00	Probably in Utah $\Delta(\bar{S}-\bar{P})=5.8$
12	May 4	$iPEN$ iE iN iPR_2EN iEN $iPcPE$ $iSEN$ eSR_2N iSR_2EN iLE eLN iME iMN $M1E$ $M2E$ $M3N$ $M4E$ F	04-42-51 04-43-04 04-43-09 04-44-10 04-44-22 04-48-08 04-48-14 04-49-51 04-51-03 04-52-00 04-52-34 04-54-09 04-54-14 04-54-28 04-55-06 04-55-11 04-56-23 05-36	Epicenter J.S.A.: 61° N, 145.1° W, in Alaska $H = 04h36m15s.$ $\Delta = 32.6$
13	May 6	eP^*E $i\bar{P}EN$ $iSEN$ iS^*EN $\bar{S}EN$ iEN iEN F	08-11-36 08-11-55 08-12-37 08-12-55 08-13-05 08-13-21 08-14-22 08-33	Probably in Utah $\Delta(\bar{S}-\bar{P})=5.3$

RECORD OF THE EARTHQUAKE STATION
 Santa Fe, New Mexico, Colorado

Altitude: 1855 Met. Longitude: 106° 55' 30" W. Lat. 35° 40' 30" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Winkler 30" a static horizontal pendulum.
 Name: Winkler 30" a static horizontal pendulum.

FROM April 7 TO May 6

No.	Date	Phase	G.M. Time H M S	Remarks
11	April 17	14-17-39 14-18-18 14-18-44 14-18-44 14-19-05 14-19-14 14-19-25 14-19-47 15-00	Probably in Utah $\Delta(5.7) = 3.9$	
12	May 4	04-18-21 04-18-40 04-18-59 04-19-10 04-19-23 04-19-36 04-19-44 04-19-51 04-20-03 04-20-09 04-20-24 04-20-39 04-20-44 04-20-58 04-21-11 04-21-23 04-21-33	Volcanic 4.8 A. 1 $\Delta = 3.9$ M = 0.43 Alaska	
13	May 6	05-11-36 05-11-55 05-12-17 05-12-25 05-12-36 05-12-51 05-13-03 05-13-21 05-13-33 05-13-43	Probably in Utah $\Delta(5.7) = 3.9$	

1934

4.

D E N V E R

 RECORD OF THE EARTHQUAKE STATION
 Regis College, Denver, Colorado

Altitude: 1655 Met.
 Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature, International

 FROM May 14 TO June 13

No.	Date	Phase	G.M. Time h m s	Remarks
14	May 14	eN eSEN eLEN iMEN M1EN M2EN F	13-19-55 13-20-31 13-20-53 13-21-13 13-21-25 13-21-41 13-42	J.S.A. epicenter: 280° N, 113° W, in the Gulf of Calif- ornia $\Delta(\text{meas})=13.04$
15	June 2	eSN eLEN iMEN F	13-59-40 14-08-40 14-11-00 14-35	Iceland
16	June 8	ePN iPR1EN eSR1EN eLEN iMEN F	04-50-51 04-51-02 04-53-48 04-54-11 04-54-48 05-24	H = 04h47m48s. Caused damage, ac- cording to Pasa- dena, at Parkfield, Monterey County, California (35° $54' N$, $120^{\circ} 27' W$). $\Delta(\text{meas})=12.98$
17	June 13	eE eN eE eLEN eMEN F	02-05-53 02-06-50 02-08-43 02-12-23 02-17-43 02-38	Kurile Islands

1834

D E N V E R

RECORD OF THE EARTHQUAKE STATION
Regie Colares, Denver, Colorado

Altitude: 1655 Met.
Long. 104° 54' W. Lat. 39° 40' 30" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiscasset 20 Kc., a static horizontal pendulum.
Name: International

FROM May 14 TO June 13

No.	Date	Phase	G.M.T. Time	Remarks
14	May 14	W	13-12-55	U.S.A. earthquake
		SW	13-20-31	280 N. 113° E. 12
		SW	13-20-53	the Gulf of Calif.
		SW	13-21-18	ornis
		SW	13-21-55	lynesa-1904
		SW	13-21-41	11 (near) 1904
		W	13-22	
15	May 15	SW	13-23-40	1904
		SW	14-08-40	
		SW	14-11-00	
		W	14-35	
16	June 1	W	04-20-41	N = 1904
		SW	04-21-02	1904
		SW	04-22-48	according to Press
		SW	04-24-11	dena. at 1904
		SW	04-24-48	Monterey County
		W	05-24	California (1904)
				54' N. 120° W.
				(A) (near) 1904
17	June 13	W	02-08-43	1904
		SW	02-08-50	
		SW	02-08-43	
		SW	02-12-43	
		SW	02-17-43	
		W	02-38	

WATERBURY
STANDARD

1934



From the ISC collection scanned by SISMOS

D E N V E R
RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., a static horizontal pendulum.
Nomenclature, International

FROM July 6

TO July 30

No.	Date	Phase	G.M. Time h m s	Remarks
18	July 6	eP _E eP _N iP _{EN} iP _{R1EN} iS _{R1N} iL _N iM _N M _{1N} M _{2E} M _{3E} M _{4N}	22-52-33 22-52-35 22-52-37 22-52-45 22-56-07 22-56-38 22-57-44 22-59-32 23-00-09 23-00-24 23-00-31	Felt in Northern California $\Delta = 15^{\circ}3$
19	July 10	e _N eL _N eM _N F	01-18-03 01-20-01 01-23-08 01-36	
20	July 18	eP _{EN} i _{EN} eP _{R1EN} eS _E eS _N eS _{R1EN} eL _{EN} F	01-43-57 01-44-05 01-45-24 01-49-52 01-49-56 01-52-20 01-53-16 03-25	According to J.S.A. epicenter $8^{\circ}2$ N, $82^{\circ}5$ W. Depth=65 km. $\Delta(\text{meas})=37^{\circ}6$ The surface waves are certainly small, but pP and sS are not clear on this record.
21	July 30	eP _{EN} ? iP _{EN} i _N iS* _{EN} iS _{EN} i _N i _N F	07-20-24 07-20-37 07-20-50 07-21-03 07-21-12 07-21-17 07-21-34 07-25	Felt in Northwestern Nebraska and North-eastern Colorado H = 07h19m41s. $\Delta(\overline{S}-\overline{P})=2^{\circ}7$

James B. Macelwane, S.J.
Director

1934

5.

D E N V E R

 RECORD OF THE EARTHQUAKE STATION
 Regis College, Denver, Colorado

Altitude: 1655 Met.
 Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80 Kg., a static horizontal pendulum
 Nomenclature, International

Reverend A.W.Forstall, S.J., Director

From July 6 To July 21

No.	Date	O/D	Phase	G.M.T.	Remarks
18	July 6		ePe ePN iPEN iPR ₁ EN iSR ₁ N iLN iM _N M ₁ N M ₂ E M ₃ E M ₄ N	22-52-33 22-52-35 22-52-37 22-52-45 22-56-07 22-56-38 22-57-44 22-59-32 23-00-09 23-00-24 23-00-31	Felt in Northern California $\Delta = 15^{\circ}3$
19	July 10		eN eLN eM _N F	01-18-03 01-20-01 01-23-08 01-36	
20	July 18		ePEN iEN ePR ₁ EN eSE eSN eSR ₁ EN eLEN F	01-43-57 01-44-05 01-45-24 01-49-52 01-49-56 01-52-20 01-53-16 03-25	According to J.S.A. epicenter 8.2 N, 82.5 W. Depth=65 km. $\Delta(\text{meas}) = 37^{\circ}6$ The surface waves are certainly small, but pP and sS are not clear on this record.

Station	Time	Remarks
1	01-00-00	1
2	01-00-00	2
3	01-00-00	3
4	01-00-00	4
5	01-00-00	5
6	01-00-00	6
7	01-00-00	7
8	01-00-00	8
9	01-00-00	9
10	01-00-00	10
11	01-00-00	11
12	01-00-00	12
13	01-00-00	13
14	01-00-00	14
15	01-00-00	15
16	01-00-00	16
17	01-00-00	17
18	01-00-00	18
19	01-00-00	19
20	01-00-00	20
21	01-00-00	21
22	01-00-00	22
23	01-00-00	23
24	01-00-00	24
25	01-00-00	25
26	01-00-00	26
27	01-00-00	27
28	01-00-00	28
29	01-00-00	29
30	01-00-00	30
31	01-00-00	31
32	01-00-00	32
33	01-00-00	33
34	01-00-00	34
35	01-00-00	35
36	01-00-00	36
37	01-00-00	37
38	01-00-00	38
39	01-00-00	39
40	01-00-00	40
41	01-00-00	41
42	01-00-00	42
43	01-00-00	43
44	01-00-00	44
45	01-00-00	45
46	01-00-00	46
47	01-00-00	47
48	01-00-00	48
49	01-00-00	49
50	01-00-00	50
51	01-00-00	51
52	01-00-00	52
53	01-00-00	53
54	01-00-00	54
55	01-00-00	55
56	01-00-00	56
57	01-00-00	57
58	01-00-00	58
59	01-00-00	59
60	01-00-00	60
61	01-00-00	61
62	01-00-00	62
63	01-00-00	63
64	01-00-00	64
65	01-00-00	65
66	01-00-00	66
67	01-00-00	67
68	01-00-00	68
69	01-00-00	69
70	01-00-00	70
71	01-00-00	71
72	01-00-00	72
73	01-00-00	73
74	01-00-00	74
75	01-00-00	75
76	01-00-00	76
77	01-00-00	77
78	01-00-00	78
79	01-00-00	79
80	01-00-00	80
81	01-00-00	81
82	01-00-00	82
83	01-00-00	83
84	01-00-00	84
85	01-00-00	85
86	01-00-00	86
87	01-00-00	87
88	01-00-00	88
89	01-00-00	89
90	01-00-00	90
91	01-00-00	91
92	01-00-00	92
93	01-00-00	93
94	01-00-00	94
95	01-00-00	95
96	01-00-00	96
97	01-00-00	97
98	01-00-00	98
99	01-00-00	99
100	01-00-00	100

1934

6.

D E N V E R
RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

Altitude: 1655 Met.
Long: 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight
Instrument: Wiechert 80 Kg., a static horizontal pendulum
Nomenclature, International
Reverend A. W. Forstall, S.J., Director

From July 21 To July 31

No.	Date	C/D	Phase	G.M.T.	Remarks
21	July 21		ePR ₁ N ePR ₂ N eSKS _N eSKKS _N iS _N eN ePS _N eN eN eSR ₂ N eL _N eM _N eW ₂ N eN eW ₃ N F	06-36-00 06-38-24 06-42-25 06-43-02 06-43-41 06-44-27 06-44-57 06-52-00 06-53-20 06-55-12 07-02-15 07-07 08-10 08-52 10-22 10-30±	According to J.S.A. epicenter 18.2° S, 164 E. H = 6h. 17m 59s. Δ(meas) = 103°
22	July 21	C D	iP _{NE} iPR ₁ NE iS _{NE} iSR ₁ N i(SR ₂) _E i(SR ₂) _N i _{NE} i _{NE} i _{NE} e(L) _E e(L) _N F	10-45-41 10-47-20 10-51-36 10-54-18 10-54-40 10-54-44 10-55-10 10-56-00 10-57-00 10-59 11-00 11-33	According to the J.S.A. about 65 Km. deep. P and S show continued oscillation but it is not possible to iden- tify pP and sS according to J.S.A. epicenter 8°2 N. 82°5 W. Δ(meas) = 37.2
23	July 30		eP _{EN} ? iP _{EN} i _N iS* _{EN} iS _{EN} i _N i _N F	07-20-24 07-20-37 07-20-50 07-21-03 07-21-12 07-21-17 07-21-34 07-25	Felt in Northwestern Nebraska and North- eastern Colorado H = 07h 19m 41s. Δ($\bar{S}-\bar{P}$) = 2.7

6.

RECORD OF THE SEISMIC STATION
Higgs College, Denver, Colorado

Altitude: 1655 Met.
Longitude: 104° 56' W. Lat. 39° 40' N.
Time: Mean Greenwich, midnight to midnight
Instrument: Wiscart 80 Hz., a static horizontal pendulum
Homocenter, International
Superintendent: A. W. Forsyth, S.J., Director
From July 21 To July 22

No.	Date	Time	G.M.T.	Remarks
21	July 21	07-00 07-05 07-10 07-15 07-20 07-25 07-30 07-35 07-40 07-45 07-50 07-55 08-00 08-05 08-10 08-15 08-20 08-25 08-30 08-35 08-40 08-45 08-50 08-55 09-00 09-05 09-10 09-15 09-20 09-25 09-30 09-35 09-40 09-45 09-50 09-55 10-00 10-05 10-10 10-15 10-20 10-25 10-30 10-35 10-40 10-45 10-50 10-55 11-00 11-05 11-10 11-15 11-20 11-25 11-30 11-35 11-40 11-45 11-50 11-55 12-00 12-05 12-10 12-15 12-20 12-25 12-30 12-35 12-40 12-45 12-50 12-55 13-00 13-05 13-10 13-15 13-20 13-25 13-30 13-35 13-40 13-45 13-50 13-55 14-00 14-05 14-10 14-15 14-20 14-25 14-30 14-35 14-40 14-45 14-50 14-55 15-00 15-05 15-10 15-15 15-20 15-25 15-30 15-35 15-40 15-45 15-50 15-55 16-00 16-05 16-10 16-15 16-20 16-25 16-30 16-35 16-40 16-45 16-50 16-55 17-00 17-05 17-10 17-15 17-20 17-25 17-30 17-35 17-40 17-45 17-50 17-55 18-00 18-05 18-10 18-15 18-20 18-25 18-30 18-35 18-40 18-45 18-50 18-55 19-00 19-05 19-10 19-15 19-20 19-25 19-30 19-35 19-40 19-45 19-50 19-55 20-00 20-05 20-10 20-15 20-20 20-25 20-30 20-35 20-40 20-45 20-50 20-55 21-00 21-05 21-10 21-15 21-20 21-25 21-30 21-35 21-40 21-45 21-50 21-55 22-00 22-05 22-10 22-15 22-20 22-25 22-30 22-35 22-40 22-45 22-50 22-55 23-00 23-05 23-10 23-15 23-20 23-25 23-30 23-35 23-40 23-45 23-50 23-55 24-00	According to the 1.8 A. about 60 W. deep. S and S now continued oscillation but it is not possible to hear city 12 and 13 according to 1.8 A. epicenter 202.1. 202.5 W. (mean) = 21.5	
22	July 21	07-00 07-05 07-10 07-15 07-20 07-25 07-30 07-35 07-40 07-45 07-50 07-55 08-00 08-05 08-10 08-15 08-20 08-25 08-30 08-35 08-40 08-45 08-50 08-55 09-00 09-05 09-10 09-15 09-20 09-25 09-30 09-35 09-40 09-45 09-50 09-55 10-00 10-05 10-10 10-15 10-20 10-25 10-30 10-35 10-40 10-45 10-50 10-55 11-00 11-05 11-10 11-15 11-20 11-25 11-30 11-35 11-40 11-45 11-50 11-55 12-00 12-05 12-10 12-15 12-20 12-25 12-30 12-35 12-40 12-45 12-50 12-55 13-00 13-05 13-10 13-15 13-20 13-25 13-30 13-35 13-40 13-45 13-50 13-55 14-00 14-05 14-10 14-15 14-20 14-25 14-30 14-35 14-40 14-45 14-50 14-55 15-00 15-05 15-10 15-15 15-20 15-25 15-30 15-35 15-40 15-45 15-50 15-55 16-00 16-05 16-10 16-15 16-20 16-25 16-30 16-35 16-40 16-45 16-50 16-55 17-00 17-05 17-10 17-15 17-20 17-25 17-30 17-35 17-40 17-45 17-50 17-55 18-00 18-05 18-10 18-15 18-20 18-25 18-30 18-35 18-40 18-45 18-50 18-55 19-00 19-05 19-10 19-15 19-20 19-25 19-30 19-35 19-40 19-45 19-50 19-55 20-00 20-05 20-10 20-15 20-20 20-25 20-30 20-35 20-40 20-45 20-50 20-55 21-00 21-05 21-10 21-15 21-20 21-25 21-30 21-35 21-40 21-45 21-50 21-55 22-00 22-05 22-10 22-15 22-20 22-25 22-30 22-35 22-40 22-45 22-50 22-55 23-00 23-05 23-10 23-15 23-20 23-25 23-30 23-35 23-40 23-45 23-50 23-55 24-00	According to the 1.8 A. about 60 W. deep. S and S now continued oscillation but it is not possible to hear city 12 and 13 according to 1.8 A. epicenter 202.1. 202.5 W. (mean) = 21.5	
23	July 20	07-00 07-05 07-10 07-15 07-20 07-25 07-30 07-35 07-40 07-45 07-50 07-55 08-00 08-05 08-10 08-15 08-20 08-25 08-30 08-35 08-40 08-45 08-50 08-55 09-00 09-05 09-10 09-15 09-20 09-25 09-30 09-35 09-40 09-45 09-50 09-55 10-00 10-05 10-10 10-15 10-20 10-25 10-30 10-35 10-40 10-45 10-50 10-55 11-00 11-05 11-10 11-15 11-20 11-25 11-30 11-35 11-40 11-45 11-50 11-55 12-00 12-05 12-10 12-15 12-20 12-25 12-30 12-35 12-40 12-45 12-50 12-55 13-00 13-05 13-10 13-15 13-20 13-25 13-30 13-35 13-40 13-45 13-50 13-55 14-00 14-05 14-10 14-15 14-20 14-25 14-30 14-35 14-40 14-45 14-50 14-55 15-00 15-05 15-10 15-15 15-20 15-25 15-30 15-35 15-40 15-45 15-50 15-55 16-00 16-05 16-10 16-15 16-20 16-25 16-30 16-35 16-40 16-45 16-50 16-55 17-00 17-05 17-10 17-15 17-20 17-25 17-30 17-35 17-40 17-45 17-50 17-55 18-00 18-05 18-10 18-15 18-20 18-25 18-30 18-35 18-40 18-45 18-50 18-55 19-00 19-05 19-10 19-15 19-20 19-25 19-30 19-35 19-40 19-45 19-50 19-55 20-00 20-05 20-10 20-15 20-20 20-25 20-30 20-35 20-40 20-45 20-50 20-55 21-00 21-05 21-10 21-15 21-20 21-25 21-30 21-35 21-40 21-45 21-50 21-55 22-00 22-05 22-10 22-15 22-20 22-25 22-30 22-35 22-40 22-45 22-50 22-55 23-00 23-05 23-10 23-15 23-20 23-25 23-30 23-35 23-40 23-45 23-50 23-55 24-00	Left in North-eastern position and North- western position N = 0.12 12.11 (S-P) = 2.1	

1934

D E N V E R
RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

Altitude: 1655 Met.
 Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.
 Time: Mean Greenwich, midnight to midnight
 Instrument: Wiechert 80 Kg., a static horizontal pendulum.
 Nomenclature, International

Reverend A.W. Forstall, S.J., Director

From July 31 TO November 19

No.	Date	C/D	Phase	G.M.T.	Remarks
24	Aug. 26		eP _N eS _N iL _E iL _N iM _N iM _E F	01-35-27 01-38-51 01-40-17 01-40-23 01-41-48 01-41-50 01-50-16	$\Delta(S-P) = 17^{\circ}8$ $\Delta t = + 36s$, was <u>assumed</u> . The epicenter seems to be in the neigh- borhood of 22°5'N, 109°W, off the end of the peninsula of Lower California.
25	Aug. 31		eP _N eP _E ePR _{1E} eS _E eS _N iSR _{2EN} eL _N eL _E iM _{EN} F	05-09-58 05-10-06 05-11-33 05-15-46 05-15-56 05-18-16 05-20-04 05-20-18 05-23-04 05-55 ⁺	$\Delta(S-P) = 36^{\circ}1$ $\Delta(\text{meas}) = 36^{\circ}1$ According to J.S.A. epicenter in Baffin Bay, 71°7'N, 70°W; H = 05h 02m 54s. $\Delta t = + 84s$ was assumed.
26	Sept. 15	D	eP _{EN} epP _N esP _E eS _N iS _E iM _E iM _N ME F	07-01-18 07-01-30 07-01-37 07-04-54 07-04-56 07-07-02 07-07-10 07-08-46 07-23 ⁺	Destructive in the State of Jalisco, Mexico. Tentative epicenter according to J.S.A., 19°9' N, 104°7' W. H = 06h 56m 50 s. Depth of focus 50 km. $\Delta t = + 26s$ <u>assumed</u> . $\Delta(S-P) = 19^{\circ}5$; $\Delta(\text{meas}) = 19^{\circ}5$.
27	Oct. 29		(eE) (eE) eE eL _E ME	02-38-07 02-38-25 02-41-10 02-42-00 02-42-34	
Record was removed before activity ceased.					
28	Nov. 18		eL _N eL _E M _N F	15-11-20 15-11-28 15-14-24 15-30 [±]	

D E N V E R
RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.

Time Mean Greenwich, midnight to midnight

Instrument: Wiechert 80 Kg., a static horizontal pendulum.

Nomenclature, International

Reverend A.W.Forstall, S.J., Director

From November 19 TO January 1, 1935

No.	Date	C/D	Phase	G.M.T h m s	Remarks
29	Nov. 30		eP _N iP _N ipP _{EN} iPR _{1EN} i _N eSE i(sS) _{EN} iLEN iM _{EN}	02-09-59 02-10-04 02-10-06 02-10-16 02-10-45 02-13-55 02-14-00 02-15-22 02-16-24	According to J.S.A. tentative epicenter 18°5' N, 105° W; Ap- proximate depth of focus by the Brunner chart 30 km; provisional H = 02h 05m 12s. $\Delta(S-P) = 21^{\circ}4$ by the Brunner chart. $\Delta(\text{meas}) = 21^{\circ}1$
Record removed before activity ceased.					
30	Dec. 8		eE iME iMN F	09-42-28 09-46-41 09-46-43 10-03- ⁺	
31	Dec. 15		(eE) e(L) _E iM _{EN} F	02-48 02-55 03-01 03-24 ⁺	
32	Dec. 30		iPE iPR _{1EN} i _{EN} i _{EN} iG _{EN} iSE iSR _{1N} iLEN iM _{EN}	13-54-59 13-55-05 13-55-29 13-55-50 13-57-00 13-57-19 13-57-41 13-58-00 13-58-17	Felt in southern Cal- ifornia, Arizona, and northern Mexico. Ac- cording to J.S.A. epicen- ter 32°N, 115°5'W. H = 13h 52m 11s. $\Delta(S-P) = 11^{\circ}6$; $\Delta(\text{meas}) =$ 11°6. The record was changed before movement had ceased.
33	Dec. 31		ePR _{1N} eE i _{EN} i _N iE iSE _N eEN iE iE iE iL _N iL _E iM _{EN}	18-48-25 18-48-36 18-48-38 18-50-03 18-50-05 18-50-39 18-50-50 18-51-08 18-51-10 18-51-22 18-51-24 18-51-34 18-51-50	According to J.S.A. epicenter 31°8'N, 115°W. H = 18h 45m 38s. $\Delta(\text{meas}) = 11^{\circ}3$ The record was changed before the end of the coda.

D E N V E R

RECORD OF THE EARTHQUAKE STATION

1.

Regis College, Denver, Colorado

Altitude: 1655 Met.

 Long. $104^{\circ} 53' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 kg., a static horizontal pendulum.

Nomenclature, International.

 FROM January TO December

No.	Date	O/D	Phase	G.M.C.T.	Remarks
1	February 22		iFEN ePR ₁ EN eSR ₁ E eSR ₂ E eLE iMEN F	17h15m21s 17 17 19 17 22 53 17 26 35 17 28 04 17 31 42 17 37 19 18 25 ⁺	Epicenter: $50^{\circ}5$ N, $176^{\circ}6$ E. H = 17h05m59s. Depth normal. Δ S-P = 52 ⁰ 4
2	April 18		eSE(?) eSR ₁ EN eSR ₂ EN(?) L F	22h28m36s 22 30 59 22 31 50 22 33 38 22 48 ⁺	Region of the epicenter N W Green- land.
3	May 30		ePR ₂ E eSKSE(?) eSKKSE ePSE ePPSE iE eSR ₁ E(?) e eL eM F	21h54m29s 21 57 55 21 59 14 22 01 25 22 02 29 22 03 04 22 08 08 22 11 39 22 17 00 22 31 25 (Lost in changing record)	Destructive at Quetta, India. H = 21h32m58s. Δ meas = 110 ⁰ 9
4	June 29		iPEN iPR ₁ EN eSE iSR ₁ EN iSR ₂ EN eLN eLE iMEN F	6h53m43s 6 54 03 6 57 39 6 58 03 6 58 13 6 59 23 6 59 31 7 01 27 7 34 ⁺	Epicenter: $18^{\circ}2$ N, $103^{\circ}3$ W. H = 6h48m53s. Δ S-P = 21 ⁰ 3

No.	Date	Time	O.M.C.T.	Remarks
1	February 22	17:15 17:16 17:17 17:18 17:19 17:20 17:21 17:22 17:23 17:24 17:25 17:26 17:27 17:28 17:29 17:30 17:31 17:32 17:33 17:34 17:35 17:36 17:37 17:38 17:39 17:40 17:41 17:42 17:43 17:44 17:45 17:46 17:47 17:48 17:49 17:50 17:51 17:52 17:53 17:54 17:55 17:56 17:57 17:58 17:59 18:00 18:01 18:02 18:03 18:04 18:05 18:06 18:07 18:08 18:09 18:10 18:11 18:12 18:13 18:14 18:15 18:16 18:17 18:18 18:19 18:20 18:21 18:22 18:23 18:24 18:25 18:26 18:27 18:28 18:29 18:30 18:31 18:32 18:33 18:34 18:35 18:36 18:37 18:38 18:39 18:40 18:41 18:42 18:43 18:44 18:45 18:46 18:47 18:48 18:49 18:50 18:51 18:52 18:53 18:54 18:55 18:56 18:57 18:58 18:59 19:00 19:01 19:02 19:03 19:04 19:05 19:06 19:07 19:08 19:09 19:10 19:11 19:12 19:13 19:14 19:15 19:16 19:17 19:18 19:19 19:20 19:21 19:22 19:23 19:24 19:25 19:26 19:27 19:28 19:29 19:30 19:31 19:32 19:33 19:34 19:35 19:36 19:37 19:38 19:39 19:40 19:41 19:42 19:43 19:44 19:45 19:46 19:47 19:48 19:49 19:50 19:51 19:52 19:53 19:54 19:55 19:56 19:57 19:58 19:59 20:00 20:01 20:02 20:03 20:04 20:05 20:06 20:07 20:08 20:09 20:10 20:11 20:12 20:13 20:14 20:15 20:16 20:17 20:18 20:19 20:20 20:21 20:22 20:23 20:24 20:25 20:26 20:27 20:28 20:29 20:30 20:31 20:32 20:33 20:34 20:35 20:36 20:37 20:38 20:39 20:40 20:41 20:42 20:43 20:44 20:45 20:46 20:47 20:48 20:49 20:50 20:51 20:52 20:53 20:54 20:55 20:56 20:57 20:58 20:59 21:00 21:01 21:02 21:03 21:04 21:05 21:06 21:07 21:08 21:09 21:10 21:11 21:12 21:13 21:14 21:15 21:16 21:17 21:18 21:19 21:20 21:21 21:22 21:23 21:24 21:25 21:26 21:27 21:28 21:29 21:30 21:31 21:32 21:33 21:34 21:35 21:36 21:37 21:38 21:39 21:40 21:41 21:42 21:43 21:44 21:45 21:46 21:47 21:48 21:49 21:50 21:51 21:52 21:53 21:54 21:55 21:56 21:57 21:58 21:59 22:00 22:01 22:02 22:03 22:04 22:05 22:06 22:07 22:08 22:09 22:10 22:11 22:12 22:13 22:14 22:15 22:16 22:17 22:18 22:19 22:20 22:21 22:22 22:23 22:24 22:25 22:26 22:27 22:28 22:29 22:30 22:31 22:32 22:33 22:34 22:35 22:36 22:37 22:38 22:39 22:40 22:41 22:42 22:43 22:44 22:45 22:46 22:47 22:48 22:49 22:50 22:51 22:52 22:53 22:54 22:55 22:56 22:57 22:58 22:59 23:00 23:01 23:02 23:03 23:04 23:05 23:06 23:07 23:08 23:09 23:10 23:11 23:12 23:13 23:14 23:15 23:16 23:17 23:18 23:19 23:20 23:21 23:22 23:23 23:24 23:25 23:26 23:27 23:28 23:29 23:30 23:31 23:32 23:33 23:34 23:35 23:36 23:37 23:38 23:39 23:40 23:41 23:42 23:43 23:44 23:45 23:46 23:47 23:48 23:49 23:50 23:51 23:52 23:53 23:54 23:55 23:56 23:57 23:58 23:59 24:00	Epiphany: 2000 N. 17:00 N. H = 17:00 N. Depth normal. E-W = 2000	
2	April 18	08:00 08:01 08:02 08:03 08:04 08:05 08:06 08:07 08:08 08:09 08:10 08:11 08:12 08:13 08:14 08:15 08:16 08:17 08:18 08:19 08:20 08:21 08:22 08:23 08:24 08:25 08:26 08:27 08:28 08:29 08:30 08:31 08:32 08:33 08:34 08:35 08:36 08:37 08:38 08:39 08:40 08:41 08:42 08:43 08:44 08:45 08:46 08:47 08:48 08:49 08:50 08:51 08:52 08:53 08:54 08:55 08:56 08:57 08:58 08:59 09:00 09:01 09:02 09:03 09:04 09:05 09:06 09:07 09:08 09:09 09:10 09:11 09:12 09:13 09:14 09:15 09:16 09:17 09:18 09:19 09:20 09:21 09:22 09:23 09:24 09:25 09:26 09:27 09:28 09:29 09:30 09:31 09:32 09:33 09:34 09:35 09:36 09:37 09:38 09:39 09:40 09:41 09:42 09:43 09:44 09:45 09:46 09:47 09:48 09:49 09:50 09:51 09:52 09:53 09:54 09:55 09:56 09:57 09:58 09:59 10:00 10:01 10:02 10:03 10:04 10:05 10:06 10:07 10:08 10:09 10:10 10:11 10:12 10:13 10:14 10:15 10:16 10:17 10:18 10:19 10:20 10:21 10:22 10:23 10:24 10:25 10:26 10:27 10:28 10:29 10:30 10:31 10:32 10:33 10:34 10:35 10:36 10:37 10:38 10:39 10:40 10:41 10:42 10:43 10:44 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Land.	
3	May 30	08:00 08:01 08:02 08:03 08:04 08:05 08:06 08:07 08:08 08:09 08:10 08:11 08:12 08:13 08:14 08:15 08:16 08:17 08:18 08:19 08:20 08:21 08:22 08:23 08:24 08:25 08:26 08:27 08:28 08:29 08:30 08:31 08:32 08:33 08:34 08:35 08:36 08:37 08:38 08:39 08:40 08:41 08:42 08:43 08:44 08:45 08:46 08:47 08:48 08:49 08:50 08:51 08:52 08:53 08:54 08:55 08:56 08:57 08:58 08:59 09:00 09:01 09:02 09:03 09:04 09:05 09:06 09:07 09:08 09:09 09:10 09:11 09:12 09:13 09:14 09:15 09:16 09:17 09:18 09:19 09:20 09:21 09:22 09:23 09:24 09:25 09:26 09:27 09:28 09:29 09:30 09:31 09:32 09:33 09:34 09:35 09:36 09:37 09:38 09:39 09:40 09:41 09:42 09:43 09:44 09:45 09:46 09:47 09:48 09:49 09:50 09:51 09:52 09:53 09:54 09:55 09:56 09:57 09:58 09:59 10:00 10:01 10:02 10:03 10:04 10:05 10:06 10:07 10:08 10:09 10:10 10:11 10:12 10:13 10:14 10:15 10:16 10:17 10:18 10:19 10:20 10:21 10:22 10:23 10:24 10:25 10:26 10:27 10:28 10:29 10:30 10:31 10:32 10:33 10:34 10:35 10:36 10:37 10:38 10:39 10:40 10:41 10:42 10:43 10:44 10:45 10:46 10:47 10:48 10:49 10:50 10:51 10:52 10:53 10:54 10:55 10:56 10:57 10:58 10:59 11:00 11:01 11:02 11:03 11:04 11:05 11:06 11:07 11:08 11:09 11:10 11:11 11:12 11:13 11:14 11:15 11:16 11:17 11:18 11:19 11:20 11:21 11:22 11:23 11:24 11:25 11:26 11:27 11:28 11:29 11:30 11:31 11:32 11:33 11:34 11:35 11:36 11:37 11:38 11:39 11:40 11:41 11:42 11:43 11:44 11:45 11:46 11:47 11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09 12:10 12:11 12:12 12:13 12:14 12:15 12:16 12:17 12:18 12:19 12:20 12:21 12:22 12:23 12:24 12:25 12:26 12:27 12:28 12:29 12:30 12:31 12:32 12:33 12:34 12:35 12:36 12:37 12:38 12:39 12:40 12:41 12:42 12:43 12:44 12:45 12:46 12:47 12:48 12:49 12:50 12:51 12:52 12:53 12:54 12:55 12:56 12:57 12:58 12:59 13:00 13:01 13:02 13:03 13:04 13:05 13:06 13:07 13:08 13:09 13:10 13:11 13:12 13:13 13:14 13:15 13:16 13:17 13:18 13:19 13:20 13:21 13:22 13:23 13:24 13:25 13:26 13:27 13:28 13:29 13:30 13:31 13:32 13:33 13:34 13:35 13:36 13:37 13:38 13:39 13:40 13:41 13:42 13:43 13:44 13:45 13:46 13:47 13:48 13:49 13:50 13:51 13:52 13:53 13:54 13:55 13:56 13:57 13:58 13:59 14:00 14:01 14:02 14:03 14:04 14:05 14:06 14:07 14:08 14:09 14:10 14:11 14:12 14:13 14:14 14:15 14:16 14:17		

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2.

No.	Date	C/D Phase	G.M.C.T.	Remarks
5	August 3	eLE iME F	2h14m57s 2 20 27 2 51±	
6	August 22	ePE eSE eLE eLN iME iMN F	20h38m08s 20 44 12 20 49 32 20 49 39 20 50 36 20 51 03 (record removed before F.)	Epicenter: 73°0 N, 66°0 W. H = 20h30m49s. $\Delta S-P = 38.3$
7	September 4	ePE ePR1E eSE eSR1 eLE iMEN F	1h34m54s 1 36 00 1 40 41 1 43 07 1 46 50 1 47 55 2 17±	Epicenter: 63°0 N, 151°0 W. H = 1h27m51s. Depth normal. $\Delta S-P = 36.0$
8	September 11	ePEN ePPEN ePR1E iSEN isSEN iSR1E eSR1N eSR2E eSR2N eSR3E eME F	14h15m40s 14 15 54 14 18 25 14 25 10 14 25 40 14 30 05 14 30 09 14 32 53 14 33 01 14 34 09 14 45 40 15 15±	Epicenter: 44°5 N, 147°0 E. H = 14h04m12s. Depth of focus by the Brunner Depth Chart. h = 60 Km. $\Delta S-P = 74.7$
9	September 20	ePR2E eSKSE ePSE ePPSE ePPPSSE ePPPSN ePKKPEN iE eSR1E iSR2EN e(X)EN eLE eLN eME eMN eL2E eW2E	2h07m56s 2 11 05 2 13 33 2 14 00 2 15 09 2 15 10 2 16 59 2 17 36 2 19 20 2 23 41 2 27 15 2 33 39 2 34 11 2 39 36 2 39 58 3 58 05 4 06 10	Epicenter: 4°0 S, 140°5 E. New Guinea. Normal Depth. H = 1h46m34s. $\Delta_{\text{meas}} = 111.99$

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4.

No.	Date	C/D	Phase	G.M.C.T.	Remarks
14	October 31		eP _n E eP* _E iP _E iE iE iS _n E iE iS* _E iS _E iSE iLE F	18h40m04s 18 40 27 18 40 35 18 40 46 18 40 56 18 41 27 18 41 39 18 42 05 18 42 10 18 42 23 18 42 58 19 06 ⁺	Helena, Montana.
15	November 28		eP _n EN eP _E eP _N eS _n E eS* _E iSEN eLEN F	14h44m00s 14 44 57 14 45 01 14 45 28 14 46 17 14 46 42 14 47 25 15 00 ⁺	Montana.
16	December 14		eP _N iP _E iS _{EN} F	1h40m11s 1 40 12 1 47 36 2 02 ⁺	Epicenter J.S.A: 5°5S, 73°3 W. Time correction uncertain. No surface waves Depth 350 kms. according to Brunner Chart.
17	December 15		eSKKSE eSE e(SR ₁)E eSR ₂ E eLE eME F	0h32m35s 0 32 52 0 40 42 0 44 06 0 57 00 1 03.5 2 50 ⁺	
18	December 19		eE eE iE iE F	7h50m19s 7 58 00 7 58 39 7 58 48 8 17 ⁺	

 A. W. Forstall, S.J.
 Director

 Records read by
 J. B. Macelwane, S.J.

D E N V E R

RECORD OF THE EARTHQUAKE STATION

1.

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

FROM January TO December 1936

No.	Date	Phase	G.M.C.T.	Remarks
1	January 1	eL _E F	6h05m00s 6 20 ±	
2.	May 28	eP _N eP _E epP _{NE} iPR _{1N} iS _{NE} i(sS) _{NE} iSR _{1E} iNE iLE iLN eMN iME eME F	18h55m12s 18 55 14 18 56 04 18 56 20 18 59 56 19 01 44 19 02 04 19 03 00 19 03 28 19 03 44 19 05 40 19 05 44 19 09 40 19 49 ±	Δp-H = 31°5 Epicenter: 9°0. N., 103°5 W. Depth by the Brunner Depth Chart about 270 kms.
3.	June 3	eP _{NE} ipP _{NE} iPR _{1NE} eSE iSR _{1NE} eLN iLE iE iE iMN eN F	9h18m51s 9 19 02 9 19 14 9 22 05 9 22 33 9 24 00 9 24 32 9 25 00 9 25 28 9 26 00 9 27 00 10 00 ±	Δp-H = 15°2 Epicenter: 40°7 N., 125°5 W. H = 9h15m20s Depth by the Brunner Depth Chart about 50 km.
4.	June 20	iP _{nN} iP _{8NE} iS _{nNE} iN iS _{8N} F	3h14m54s 3 15 26 3 15 32 3 16 00 3 16 28 3 18 ±	Δpg-H = 5°3 Epicenter: Near 35°7 N., 100°3 W. Texas, Oklahoma boundary, North of Canadian River. H = 3h13m37s

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No.	Date	Phase	G.M.C.T.	Remarks.
5	June 30	oPN iP^{NE}_{NE} iP^{NE}_{NE} i(P^{CP})_E i_E e(PR₁)_{NE} e(pPR₁)_N e(PR₂)_N i SNE iN iE iss^{NE}_{NE} eSPE e_E F	15h 17m 04s 15 17 09 15 17 17 15 17 42 15 18 38 15 19 40 15 19 58 15 20 50 15 25 39 15 25 50 15 25 51 15 25 58 15 26 11 15 27 38 16 56±	$\Delta_{P-H} = 62^{\circ}6$ $\Delta_{meas} = 62^{\circ}6$ H = 15h 06m 48s $\phi = 51^{\circ} 0' N.$ $\lambda = 161.1^{\circ} E.$ off eastern coast Kamchatka h = 50 km. by Brunner Depth Chart
6	July 13	oPN e(P)_E ipP^{NE}_{NE} iP^{CP}_{NE} i_{NE} iSNE eNE iss_E iss_N e_N F	11h 23m 36s 11 23 40 11 23 50 11 23 58 11 24 02 11 32 50 11 33 08 11 33 15 11 33 17 11 37 50 13 08±	$\Delta_{S-P} = 70^{\circ}7$ $\Delta_{meas} = 70^{\circ}7$ H = 11h 12m 29s h = approximately 60 km by Brunner Depth Chart $\phi = 23^{\circ}0' S$ $\lambda = 70.2^{\circ} W$
7	July 16	eP^N_N e(PR₁)_N e_E eN eE e(S)_E eNE i_N iM₁_E iM₁_N i_E eM₂_E F	7h 10m 11s 7 10 30 7 11 06 7 11 12 7 11 56 7 12 12 7 12 50 7 13 38 7 13 33 7 13 40 7 13 48 7 14 08 7 30±	$\Delta_{meas} = 11^{\circ}7$ $\phi = 46^{\circ}0' N.$ $\lambda = 118.1^{\circ} W.$ H = 07h 07m 50s Time doubtful
8	July 31	e(S)_E eL_E eL_N eM₁_S eM₂_E F	17h 48m 16s 17 49 34 17 49 36 17 50.7 17 52.2 18 16±	$\Delta_{meas} = 17^{\circ}4$ h = approximately 40 km. by Brunner Depth Chart H = 17h 41m 00s $\phi = 22.7^{\circ} N.$ $\lambda = 110.7^{\circ} W$ Beginning lost test- ing pens

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3.

No.	Date	Phase	G.M.C.T.	Remarks
9	August 1	eS ^{NE} e(ss) ^N eNE iN e(P _C P) ^N iE eN iE F	8h 13m 14s 8 13 46 8 14 03 8 14 30 8 14 46 8 14 50 8 15 20 8 15 50 8 34±	$\Delta_{S-H} = 17^{\circ} 04$ $\Delta_{meas} = 17^{\circ} 4$ Preliminaries masked by microseisms h = 100 km. by Brunner Depth Chart $\phi = 22^{\circ} 7$ N. $\lambda = 110^{\circ} 7$ W. H = 08h 06m 04s
10	August 18	eP ^N e(P) ^E i(P) ^N epP ^E epP ^N eP _C ^P eS ^E eE eN e(ss) ^N eE eN eE eM ^N eME F	7h 11m 57s 7 12 02 7 12 03 7 12 07 7 12 08 7 15 52 7 15 56 7 16 00 7 16 04 7 16 16 7 17 44 7 18 12 7 18 56 7 19 04 7 19 06 7 34±	$\Delta_{S-P} = 22^{\circ} 5$ $\Delta_{means} = 22^{\circ} 3$ $\phi = 17^{\circ} 0$ N. $\lambda = 104^{\circ} 5$ W. h = 80 km. by Brunner Depth Chart H = 07h 07m 24s
11	September 19	(e) ^N (e) ^E (e) ^E eNE eLE eM ^{LN} eM ^{1E} eM ^{2E} eM ^{2N} F	1h 25m 00s 1 25 02 1 25 28 1 25 42 2 08.1m 2 13.0 2 14.9 2 22.0 2 24.0 2 32±	$\Delta_{meas} = 131^{\circ} 8$ Weak H = 01h 01m 58s h = 100 km. by Brunner Depth Chart $\phi = 4^{\circ} 3$ N. $\lambda = 97^{\circ} 8$ E. Time doubtful
12	September 25	eE eE eN eE eN eE eS ^N e(S) ^E e(P _C P) ^N e(L) ^{NE} eM ^N eME F	13h 00m 17s 13 00 30 13 00 42 13 00 58 13 01 02 13 01 11 13 01 33 13 01 39 13 02 12 13 04.1 13 04.5 13 04.7 14 09±	Time doubtful Weak $\Delta_{meas} = 19^{\circ} 8$ $\phi = 42^{\circ} 5$ N. $\lambda = 131^{\circ} 0$ W. H = 12h 53m 30s h = 80 km. by Brunner Depth Chart

Denver Bulletin for 1936

No.	Date	Phase	G.M.C.T.	Remarks
17	December 20	(e) _E i _E e _E e _E e _E F	2h 48m 57s 2 50 21 2 50 53 2 54 08 2 56 58 3 02±	Weak Near Normal Depth Δ means = 19.2 H = 02h 43m 29s ϕ = 14.2 N. λ = 88.6 W.

Minor Seismic Activity

October 6 14 h 46m to 15h 07m (May not be of Seismic Origin.)

Rev. A. W. Forstall, S. J.
Director

Records read by
F. Robertson

INVESTIGATION REPORT

No.	Date	Place	Time	Duration	Amplitude	Intensity	Remarks
17	December 10	1952	10:00	0.5	1.5	III	Weak
			10:05	0.5	1.5	III	Weak
			10:10	0.5	1.5	III	Weak
			10:15	0.5	1.5	III	Weak
			10:20	0.5	1.5	III	Weak
			10:25	0.5	1.5	III	Weak
			10:30	0.5	1.5	III	Weak
			10:35	0.5	1.5	III	Weak
			10:40	0.5	1.5	III	Weak
			10:45	0.5	1.5	III	Weak
			10:50	0.5	1.5	III	Weak
			10:55	0.5	1.5	III	Weak
			11:00	0.5	1.5	III	Weak
			11:05	0.5	1.5	III	Weak
			11:10	0.5	1.5	III	Weak
			11:15	0.5	1.5	III	Weak
			11:20	0.5	1.5	III	Weak
			11:25	0.5	1.5	III	Weak
			11:30	0.5	1.5	III	Weak
			11:35	0.5	1.5	III	Weak
			11:40	0.5	1.5	III	Weak
			11:45	0.5	1.5	III	Weak
			11:50	0.5	1.5	III	Weak
			11:55	0.5	1.5	III	Weak
			12:00	0.5	1.5	III	Weak

INVESTIGATION REPORT

October 2 1952 10:00 to 12:00 hrs. of Seismicity
Original

Records sent by
E. Robertson

Rev. A. H. Robertson, B.Sc.
Director

D E N V E R

Record of the Earthquake Station
Regis College, Denver, Colorado

ADDENDUM

December, 1936

No.	Date	Phase	G.M.C.T.	Remarks
18	December 21	eP _E eN iN e(PR ₁) _N e(PR ₂) _E eN eE eE e(S) _E eE iNE eNE eSR ₁ _N eL iM ₁ _{EN} eNE eNE iN eM ₂ _N F	19 ^h 08 ^m 08 ^s 19 08 12 19 08 23 19 08 29 19 08 53 19 09 10 19 09 11 19 09 50 19 12 22 19 12 29 19 12 40 19 12 52 19 13 06 19 15 14 19 16 06 19 16 55 19 17 05 19 17 32 19 17.6 Lost in following earthquake	$\phi = 53^{\circ}2$ N. $\lambda = 131^{\circ}3$ W H = 19 ^h 03 ^m 09 ^s Depth normal. $\Delta P-H = 22^{\circ}4$ $\Delta_{\text{meas}} = 22^{\circ}4$
19	December 21	ePN iN ePR ₁ _E e(PR ₂) _N eSE eE eN iE eSR ₁ _N eL _E eE eE eM _N iM ₁ _E F	19 32 56 19 33 18 19 33 27 19 33 42 19 37 00 19 37 11 19 37 24 19 37 29 19 37 56 19 38 56 19 39 20 19 39 56 19 40 00 19 40 10 20 06 +	$\Delta S-P = 22^{\circ}3$ Aftershock of No.18

Rev. A. W. Forstall, S.J.
Director

Records read by
F. Robertson

D E N V E R

Record of the Earthquake Station
Regis College, Denver, Colorado

ADDENDUM

December, 1936

No.	Date	Phase	G.M.C.T.	Remarks
18	December 21	eP _E	19 ^h 08 ^m 08 ^s	$\phi = 53^{\circ}2' N.$
		eN	19 08 12	$\lambda = 131^{\circ}3' W$
		iN _E	19 08 23	
		e(PR ₁) _N	19 08 29	H = 19 ^h 03 ^m 09 ^s
		e(PR ₂) _E	19 08 53	
		eN	19 09 10	Depth normal.
		eE	19 09 11	
		eE	19 09 50	$\Delta P-H = 22^{\circ}4'$
		e(S) _E	19 12 22	$\Delta_{meas} = 22^{\circ}4'$
		eE	19 12 29	
		iN _E	19 12 40	
		eN _E	19 12 52	
		eSR ₁ _N	19 13 06	
		eL	19 15 14	
		iM ₁ _{EN}	19 16 06	
		eN _E	19 16 55	
		eN _E	19 17 05	
		iN	19 17 32	
		eM ₂ _N	19 17.6	
		F	Lost in following earthquake	
19	December 21	ePN	19 32 56	$\Delta S-P = 22^{\circ}3'$
		iN	19 33 18	
		ePR ₁ _E	19 33 27	
		e(PR ₂) _N	19 33 42	Aftershock of No.18
		eS _E	19 37 00	
		eE	19 37 11	
		eN	19 37 24	
		iE	19 37 29	
		eSR ₁ _N	19 37 56	
		eL _E	19 38 56	
		eE	19 39 20	
		eE	19 39 56	
		eM _N	19 40 00	
		iM ₁ _E	19 40 10	
		F	20 06 +	

Rev. A. W. Forstall, S.J.
Director

Records read by
F. Robertson

D E N V E R
RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104°56'54" W.

Lat. 39°40'36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum
Nomenclature, International.

FROM January, 1937 TO March, 1937

No.	Date	Phase	G.M.C.T.	Remarks
1	January 2	(e)E eE eE iE eN eEN iEN eE eN iE iE eN eE F	22h38m00s 22 43 34 22 44 32 22 44 34 22 44 40 22 45 00 22 45 04 22 45 12 22 45 28 22 46 04 22 46 20 22 47 00 22 47 10 22 54 +	
2	January 7	eE eE e(PR ₁)NE e(PR ₂)E eE eE eE eSKSE e(SKKS)E e(S)N eE eE eSR ₁ E eN eLNE eMNE F	13h37m44s 13 37 52 13 38 55 13 40 10 13 41 44 13 44 17 13 44 42 13 45 08 13 46 06 13 46 40 13 48 56 13 51 48 13 53 14 13 53 48 14 08 40 14 15.7 15 25 +	$\phi = 36^{\circ}1$ N. $\lambda = 98^{\circ}6$ E. Depth normal H = 13h20m40s $\Delta_{\text{meas}} = 101^{\circ}3$
3	January 19	(e)E eE eE iN eE eN eM1N eE eM2N eE F	22h19m48s 22 23 49 22 26 14 22 26 43 22 26 50 22 27 05 22 27 41 22 27 48 22 28.0 22 28.2 22 47 +	

D E N V E R
RECORD OF THE EARTHQUAKE STATIC..

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104°56'54" W.

Lat. 39°40'36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum
Nomenclature, International.

FROM January, 1937 TO March, 1937

No.	Date	Phase	G.M.C.T.	Remarks
1	January 2	(e)E eE eE iE eN eEN iEN eE eN iE iE eN eE F	22 ^h 38 ^m 00 ^s 22 43 34 22 44 32 22 44 34 22 44 40 22 45 00 22 45 04 22 45 12 22 45 28 22 46 04 22 46 20 22 47 00 22 47 10 22 54 + -	
2	January 7	eE eE e(PR ₁)NE e(PR ₂)E eE eE eE eSKSE e(SKKS)E e(S)N eE eE eSR ₁ E eN eLNE eMNE F	13 ^h 37 ^m 44 ^s 13 37 52 13 38 55 13 40 10 13 41 44 13 44 17 13 44 42 13 45 08 13 46 06 13 46 40 13 48 56 13 51 48 13 53 14 13 53 48 14 08 40 14 15.7 15 25 + -	$\phi = 36^{\circ}1$ N. $\lambda = 98^{\circ}6$ E. Depth normal H = 13 ^h 20 ^m 40 ^s $\Delta_{\text{meas}} = 101^{\circ}3$
3	January 19	(e)E eE eN iN eE eN eM ₁ N eE eM ₂ N eE F	22 ^h 19 ^m 48 ^s 22 23 49 22 26 14 22 26 43 22 26 50 22 27 05 22 27 41 22 27 48 22 28.0 22 28.2 22 47 + -	

Denver Bulletin for 1937

No.	Date	Phase	G.M.C.T.	Remarks
4	February 7	iPR ₁ E eN iE eN eSE eLE eLN eN eM ₁ E eN ee eN iN eM ₂ N F	04 ^h 45 ^m 23 ^s 04 45 25 04 45 42 04 46 10 04 48 19 04 49 08 04 49 10 04 49 38 04 50 07 04 50 11 04 50 38 04 50 40 04 51 00 04 51 10 05 07 ±	Epicenter: Region Ø = 40°0 N. λ = 124°6 W. H = 04 ^h 41 ^m 29 ^s ΔPR ₁ -H = 15°7 Depth normal.
5	February 15	(e)E eE eE eE eE iE F	02 ^h 28 ^m 02 ^s 02 30 21 02 31 27 02 31 56 02 32 00 02 32 09 02 50 ±	Weak
6	February 21	ePE ipPE i(PcP)N iNE eSNE iSE eE e(sS)N eM _N eME F	07 ^h 14 ^m 06 ^s 07 14 21 07 14 30 07 14 34 07 23 30 07 23 34 07 23 42 07 23 44 07 39.5 07 41.5 Lost in microseisms	Time doubtful. Ø = 45°2 N. λ = 148°6 E. H = 07 ^h 02 ^m 45 ^s Depth 50 to 60 km by the Brunner Depth Chart. ΔS-P = 72°6 Δmeas = 72°5
7	March 2	(e)N eEN eEN F	14 ^h 53 ^m 02 ^s 14 54 07 14 55 31 Lost in microseisms	Ø = 40°4 N. λ = 84°2 W. H = 14 ^h 47 ^m 33 ^s Δmeas = 16°0 Considerable damage in region of Anna, Ohio Maximum intensity ap- proximately VII on the Wood-Neuman Scale. Weak.

Denver Bulletin for 1937

No.	Date	Phase	G.M.C.T.	Remarks
4	February 7	iPR ₁ E eN iE eN eSE eLE eLN eN eM ₁ E eN eE eN iN eM ₂ N F	04 ^h 45 ^m 23 ^s 04 45 25 04 45 42 04 46 10 04 48 19 04 49 08 04 49 10 04 49 38 04 50 07 04 50 11 04 50 38 04 50 40 04 51 00 04 51 10 05 07 ±	Epicenter: Region $\phi = 40^{\circ}0' N.$ $\lambda = 124^{\circ}6' W.$ $H = 04^h41^m29^s$ $\Delta_{PR_1-H} = 15^{\circ}.7$ Depth normal.
5	February 15	(e)E eE eE eE eE iE F	02 ^h 38 ^m 02 ^s 02 30 21 02 31 27 02 31 56 02 32 00 02 32 09 02 50 ±	Weak
6	February 21	ePE ipPE i(PoP)N iNE eSNE iSE eE e(ss)N eMN eME F	07 ^h 14 ^m 06 ^s 07 14 21 07 14 30 07 14 34 07 23 30 07 23 34 07 23 42 07 23 44 07 39.5 07 41.5 Lost in microseisms	Time doubtful. $\phi = 45^{\circ}2' N.$ $\lambda = 148^{\circ}6' E.$ $H = 07^h02^m45^s$ Depth 50 to 60 km by the Brunner Depth Chart. $\Delta_{S-P} = 72^{\circ}6'$ $\Delta_{meas} = 72^{\circ}5'$
7	March 2	(e)N eEN eEN F	14 ^h 53 ^m 02 ^s 14 54 07 14 55 31 Lost in microseisms	$\phi = 40^{\circ}4' N.$ $\lambda = 84^{\circ}2' W.$ $H = 14^h47^m33^s$ $\Delta_{meas} = 16^{\circ}0'$ Considerable damage in region of Anna, Ohio Maximum intensity ap- proximately VII on the Wood-Neuman Scale. Weak.

Denver Bulletin for 1937

3

No.	Date	Phase	G.M.C.T.	Remarks
8	March 9	eN eE eN eNE iNE F	05h50m53s 05 51 50 05 52 23 05 52 44 05 52 58 06 12 +	Similar to No. 7. $\phi = 40^{\circ}4$ N. $\lambda = 84^{\circ}2$ W. H = 05h44m33s Felt over a larger area and with a greater intensity than No. 7.
9	March 9	(e)E epPE ePR ₁ E iPR ₁ ePcP _{NE} eN _E eSN esSE esSN eMN F	15h47m20s 15 47 42 15 48 46 15 48 49 15 50 02 15 52 36 15 53 04 15 53 20 15 53 27 16 07.0 16 40 +	$\phi = 10^{\circ}6$ N. $\lambda = 83^{\circ}4$ W. H = 15h40m38s Depth 50+ km by the Brunner Depth Chart. $\Delta_{\text{meas}} = 35^{\circ}1$
10.	March 25	eE eE eN eSN eSE e(SR ₁)E eSR ₁ N eNE eLE eLN eME iMN F	16h53m03s 16 52 17 16 52 53 16 53 55 16 53 58 16 54 20 16 54 22 16 54 38 16 54 44 16 54 52 16 55 06 16 55 10 17 30 +	$\phi = 33^{\circ}4$ N. $\lambda = 116^{\circ}7$ W. $\Delta_{\text{S-H}} = 1099$ $\Delta_{\text{meas}} = 1192$ H = 16h49m04s Reported felt in Los Angeles, San Diego, and adjacent area of southern California. Pasadena associates epicenter with San Jacinto fault.

Minor Seismic Activity

Jan. 19, 14h44m to 15h38m; 18h31m to 18h52m; Feb. 7, 01h57m to 02h10m; 02h22m to 03h02m; Feb. 15, 06h03m to 07h12m (probably not of seismic origin); Feb. 21, 01h09m to 15h51m (probably not all of seismic origin); March 2, 01h01m to 03h31m; 14h55m to 18h20m; March 9, 19h00m to 19h30m.

Rev. A.W. Forstall, S. J.
Director

Records read by
F. Robertson

Denver Bulletin for 1937

No.	Date	Phase	G.M.C.T.	Remarks
8	March 9	eN eE eN eNE iNE F	05h50m53s 05 51 50 05 52 23 05 52 44 05 52 58 06 12 ±	Similar to No. 7. $\phi = 40^{\circ}4$ N. $\lambda = 84^{\circ}2$ W. $H = 05h44m33s$ Felt over a larger area and with a greater intensity than No. 7.
9	March 9	(e)E epPE ePR ₁ E iPR ₁ ePcPNE eN ^E eSN esSE esSN eMN F	15h47m20s 15 47 42 15 48 48 15 48 49 15 50 02 15 52 36 15 53 04 15 53 20 15 53 27 16 07.0 16 40 ±	$\phi = 10^{\circ}6$ N. $\lambda = 83^{\circ}4$ W. $H = 15h40m38s$ Depth 50+ km by the Brunner Depth Chart. $\Delta_{\text{meas}} = 3591$
FO.	March 25	eE eE eN eSN eSE e(SR ₁)E eSR ₁ N eNE eLE eLN eME iMN F	16h53m03s 16 52 17 16 52 53 16 53 55 16 53 58 16 54 20 16 54 22 16 54 38 16 54 44 16 54 52 16 55 06 16 55 10 17 30 ±	$\phi = 33^{\circ}4$ N. $\lambda = 116^{\circ}7$ W. $\Delta S-H = 1099$ $\Delta_{\text{meas}} = 1192$ $H = 16h49m04s$ Reported felt in Los Angeles, San Diego, and adjacent area of southern California. Pasadena associates epicenter with San Jacinto fault.

Minor Seismic Activity

Jan. 19, 14h44m to 15h38m; 16h31m to 18h52m; Feb. 7, 01h57m to 02h10m; 02h22m to 03h02m; Feb. 15, 06h03m to 07h12m (probably not of seismic origin); Feb. 21, 01h09m to 15h51m (probably not all of seismic origin); March 2, 01h01m to 03h31m; 14h55m to 18h20m; March 9, 19h00m to 19h30m.

Rev. A.W. Forstall, S.J.
Director

Records read by
F. Robertson

D E N V E R

RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104° 56' 54" W. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

From April, 1937 To June, 1937

No.	Date	Phase	G.M.C.T.	Remarks
11.	April 16	en eE en in eE en in en en iE en iEN en in F	3h13m09s 3 12 11 3 12 12 3 12 19 3 13 48 3 14 08 3 14 26 3 16 15 3 22 17 3 22 22 3 22 40 3 22 52 3 23 45 3 24 03 4 42 ±	Time doubtful. This earthquake is being studied in detail by Reverend. A.J. Westland, S.J.
12.	April 29	ePN in ePc PN eSN en en eSR1N eMN F	19h00m13s 19 01 09 19 02 20 19 06 18 19 07 38 19 08 16 19 09 18 19 15.0 20 04 ±	$\phi = 53^{\circ}8$ N. $\lambda = 160^{\circ}5$ W $H = 18h52m43s$ $h =$ approximately 40 km. by the Brunner Depth Chart $\Delta S-P = 39^{\circ}7$ $\Delta_{meas} = 39^{\circ}8$
Minor Seismic Activity: April 29, 1937			14h30m to 18h44m	
13.	May 1	en in F	14h49m09s 14 53 20 Lost in microseisms	Weak
14.	May 1	iPE iPN en en eSN eLN eM1N eM2N F	15h28m49s 15 28 53 15 29 42 15 30 22 15 32 00 15 33 20 15 35 17 15 36 46 17 00 ±	According to Florissant: $H = 15h24m57s$ $\Delta P-H = 16^{\circ}6$

West's College, Detroit, Michigan

1955: 1956

1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

7561. *Empidonax griseus* 0

501 V

D E N V E R



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 RECORD OF THE EARTHQUAKE STATION
 Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

From April, 1937 To June, 1937

No.	Date	Phase	G.M.C.T.	Remarks
11.	April 16	en ee en in ee en in en en ie en iEN en in F	3h13m09s 3 12 11 3 12 12 3 12 19 3 13 48 3 14 08 3 14 36 3 16 15 3 22 17 3 22 22 3 22 40 3 22 52 3 23 45 3 24 03 4 42 ±	Time doubtful. This earthquake is being studied in detail by Reverend. A.J. Westland, S.J.
12.	April 29	ePN in ePcPN eSN en en eSR1N eMN F	19h00m13s 19 01 09 19 02 20 19 06 18 19 07 38 19 08 16 19 09 18 19 15.0 20 04 ±	$\phi = 53^{\circ} 8' N.$ $\lambda = 160^{\circ} 55' W$ $H = 18h52m43s$ $h =$ approximately 40 km. by the Brunner Depth Chart $\Delta S-P = 39^{\circ} 7'$ $\Delta_{meas} = 39^{\circ} 8'$
Minor Seismic Activity: April 29, 1937			14h30m to 18h44m	
13.	May 1	en in F	14h49m09s 14 53 20 Lost in microseisms	Weak
14.	May 1	iPe iPN en ew eSN eLN eM1N eM2N F	15h28m49s 15 28 53 15 29 42 15 30 22 15 32 00 15 33 20 15 35 17 15 36 46 17 00 ±	According to Florissant: $H = 15h24m57s$ $\Delta P-H = 16^{\circ} 6'$

No.	Date	Phase	G. M. C. T.	Remarks
15	June 8	ePN eE iN i(pP)NE iE eN e(sP)N eN iN iN eN e(P _c P)N eN eN eE eN eSN eE iE eN iNE F	22h35m02s 22 35 05 22 35 27 22 35 33 22 35 43 22 35 49 22 36 12 22 36 48 22 36 53 22 37 06 22 37 53 22 38 06 22 38 30 22 38 41 22 38 58 22 39 01 22 39 12 22 39 36 22 39 48 22 40 11 22 40 37 23 00 ±	Ø = 16°3 N. λ = 92°7 W. H = 22h29m45s h = 200 Km. on basis of the Brunner Depth Chart. ΔS-P = 2597 Δmeas = 2599
16	June 13	ePNE e(PR ₁)E eN ePR ₂ N eE eN eSN eN eE eLE eLN eM ₁ EN e(M ₂)NE iNE F	23h38m41s 23 29 22 23 29 23 23 29 29 23 30 09 23 30 10 23 33 11 23 33 47 23 33 50 23 34 53 23 35 00 23 36.3 23 38.5 23 39 00 00 20 ±	Epicenter: General region of 15° N, 98° W. ΔS-P = 25.3
17	June 21	iPNE epPE i(pP)N eN eE eN eN eE eSE eSN iE e(sS)N eLN eLE eMNE F	9h22m20s 9 22 36 9 22 38 9 22 49 9 23 25 9 23 53 9 25 54 9 26 02 9 29 48 9 29 54 9 30 01 9 30 19 9 33 43 9 34 07 9 41.9 10 13 ±	Ø = 6°8 S. λ = 79°9 W. h = approximately 50 Km. on basis of Brunner Depth Chart. H = 15h13m17s ΔS-P = 5291 Δmeas = 5291 Reported felt along the western coast of Peru

No.	Date	Phase	G. M. C. T.	Remarks
15	June 8	eP _N ee in i(pP)NE ie en e(sP)N en in in en e(P _C P)N en en ee en eSN ee ie en ine F	22h35m02s 22 35 05 22 35 27 22 35 33 22 35 43 22 35 49 22 36 12 22 36 48 22 36 53 22 37 06 22 37 53 22 38 06 22 38 30 22 38 41 22 38 58 22 39 01 22 39 12 22 39 36 22 39 48 22 40 11 22 40 37 23 00 ±	$\phi = 16^{\circ}3' N.$ $\lambda = 92^{\circ}7' W.$ $H = 22h29m45s$ $h = 200 \text{ Km. on basis of}$ the Brunner Depth Chart. $\Delta S-P = 25^{\circ}9'$ $\Delta_{\text{meas}} = 25^{\circ}9'$
16	June 13	ePNE e(PR ₁)E en ePR ₂ N ee en eSN en ee eLE eLN eM ₁ EN e(M ₂)NE ine F	23h38m41s 23 29 22 23 29 23 23 29 29 23 30 09 23 30 10 23 33 11 23 33 47 23 33 50 23 34 53 23 35 00 23 36.3 23 38.5 23 39 00 00 20 ±	Epicenter: General region of $15^{\circ} N$, $98^{\circ} W$. $\Delta S-P = 25^{\circ}3'$
17	June 21	iPNE epPE i(pP)N en ee en en ee eSE eSN ie e(sS)N eLN eLE eMNE F	9h22m20s 9 22 36 9 22 38 9 22 49 9 23 25 9 23 53 9 25 54 9 26 02 9 29 48 9 29 54 9 30 01 9 30 19 9 33 43 9 34 07 9 41.9 10 13 ±	$\phi = 6^{\circ}8' S.$ $\lambda = 79^{\circ}9' W.$ $h = \text{approximately } 50 \text{ Km.}$ $\text{on basis of Brunner}$ Depth Chart. $H = 15h13m17s$ $\Delta S-P = 52^{\circ}1'$ $\Delta_{\text{meas}} = 52^{\circ}1'$ Reported felt along the western coast of Peru

D E N V E R
RECORD OF THE EARTHQUAKE STATION
Regis College, Denver, Colorado

6.

Altitude: 1655 Met.
Long. 104° 56' 54" W. Lat. 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight.
Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

From July, 1937 To September, 1937

No.	Date	Phase	G.M.C.T.	Remarks
18	July 11	ePN	17 ^h 23 ^m 56 ^s	$\phi = 20^{\circ} 7' N.$
		eE	17 24 07	$\lambda = 108^{\circ} 3' W.$
		e(PR ₁) _N	17 24 12	Depth normal
		eN	17 24 42	
		eN	17 25 11	
		eN	17 26 16	H = 17 ^h 19 ^m 31 ^s
		eSE	17 27 33	$\Delta S-P = 19^{\circ} 3'$
		eSN	17 27 40	$\Delta_{meas} = 19^{\circ} 3'$
		eN	17 27 56	
		e(SR ₁) _E	17 28 26	
		e(L) _N	17 30 00	
		eN	17 31 26	
		eMN	17 31.7	
		F	17 50 ±	
19	July 26	ePNE	3 ^h 52 ^m 07 ^s	$\phi = 18^{\circ} 6' N.$
		iN	3 52 12	$\lambda = 95^{\circ} 8' W.$
		ipPE	3 52 18	H = 3 ^h 47 ^m 11 ^s
		iE	3 52 20	
		iE	3 52 25	h = approximately
		iN	3 52 27	75 km. by Brunner
		iE	3 52 31	Depth Chart.
		iE	3 52 36	Reported damage
		iPR ₁ N	3 52 40	at cities along
		iN	3 52 43	the Gulf Coast
		ipPR ₁ E	3 52 54	of Mexico.
		iN	3 53 07	Casualties re-
		iN	3 53 20	ported in Vera
		iE	3 53 36	Cruz and Jalapa.
		iN	3 54 01	Felt also in
		iN	3 54 18	Mexico City and
		iNE	3 54 36	Tehuantepec.
		iE	3 54 53	
		iE	3 55 12	$\Delta S-P = 22^{\circ} 7'$
		iN	3 55 22	$\Delta_{meas} = 22^{\circ} 7'$
		ePc PN	3 55 58	
		iSE	3 56 11	
		iSN	3 56 12	
		isSE	3 56 27	
		iE	3 57 13	
		i(M)NE	3 57.6	

No.	Date	Phase	G.M.C.T.	Remarks
20	August 20	(e)E	12 ^h 18 ^m 20 ^s	$\phi = 14^{\circ}.2$ N.
		ePR ₁ E	12 18 40	$\lambda = 122^{\circ}.1$ E.
		eN	12 18 54	Epicenter according
		eE	12 19 10	to Manila.
		eN	12 19 16	
		eE	12 20 42	H = 11 ^h 59 ^m 32 ^s
		ePR ₂ E	12 21 08	
		eE	12 24 05	Felt throughout
		eE	12 29 37	southern Luzon and
		eE	12 30 04	neighboring Islands.
		eN	12 33 12	
		eE	12 47.0	$\Delta_{PR_1-H} = 111^{\circ}.2$
		eN	12 47.5	$\Delta_{meas} = 111^{\circ}.2$
		eLE	12 53.5	
		eLN	12 54.5	
		F	13 00 $\pm$	
21	September 3	iPNE	18 ^h 57 ^m 05 ^s	$\phi = 52^{\circ}.5$ N.
		iN	18 57 16	$\lambda = 117^{\circ}.5$ W.
		iNE	18 57 20	H = 18 ^h 48 ^m 29 ^s
		ipP _{NE}	18 57 31	Depth = 160-180 Km.
		iP _C PN	18 58 25	by Brunner Depth
		iPR ₁ N	18 59 09	Chart.
		ipPR ₁ E	18 59 34	
		iSE	19 04 08	$\Delta_{P-H} = 49^{\circ}.9$
		isSNE	19 05 09	$\Delta_{meas} = 49^{\circ}.7$
		F	19 13 $\pm$	
22	September 23	(e)E	13 ^h 23 ^m 14 ^s	$\phi = 6^{\circ}.5$ S.
		ePR ₁ E	13 24 07	$\lambda = 153^{\circ}.8$ E.
		eN	13 24 24	
		eE	13 26 16	Depth normal
		ePR ₂ N	13 26 24	
		eSKSE	13 30 31	H = 13 ^h 06 ^m 00 ^s
		eSKKSE	13 31 23	
		e(PPS)E	13 33 09	$\Delta_{PR_1-H} = 103^{\circ}.0$
		e(SR ₁)E	13 39 11	$\Delta_{meas} = 103^{\circ}.0$
		eSR ₂ NE	13 40 05	
		eE	13 43 03	
		eLE	13 54.6	
		eLN	13 55.1	
		eME	14 07 $\pm$	
		F	15 00 $\pm$	

Minor Seismic Activity

September 20 - 07h16m to 07h40m

A. W. Forstall, S.J.
DirectorRecords read by
F. Robertson

D E N V E R



From the ISC collection scanned by SISMOS

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

8.

Altitude: 1655 Met.

Long. 104° 56' 54" W. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

From October, 1937 To December, 1937

No.	Date	Phase	G.M.C.T.	Remarks
23	October 5	ePN ePE ePR1E iPR1N eE eSE eN eSR1N eE e(G)N eE iMN F	6 ^h 25 ^m 20 ^s 6 25 22 6 25 35 6 25 37 6 27 19 6 28 41 6 28 48 6 29 18 6 29 25 6 30 11 6 30 13 6 30 33 6 50 ±	Ø = 22.5 N λ = 103.5 W Depth probably normal. H = 6 ^h 21 ^m 17 ^s ΔS-P = 17.5 Δmeas = 17.5
24	October 6	ePN e(pp)E iN e(sP)N eN eE eN eE eN eSNE e(ss)N i(ss)E iNE eMN F	9 ^h 52 ^m 06 ^s 9 52 28 9 52 30 9 52 38 9 53 12 9 53 30 9 53 53 9 53 55 9 55 06 9 56 06 9 56 34 9 56 42 9 59 06 9 59 12 10 15 ±	Ø = 17.7 N. λ = 99.0 W. H = 9 ^h 47 ^m 16 ^s Depth about 100 Km. by Brunner Depth Chart. ΔP-H = 22.04 Δmeas = 22.5
25	December 22	ePNE ePR1N eSN iSE eN e(SR1)N eE eLNE eMN F	3 ^h 42 ^m 16 ^s 3 42 40 3 46 22 3 46 25 3 47 10 3 47 19 3 47 22 3 48 40 3 50.0 4 25 ±	Ø = 17.2 N. λ = 105.7 W. Depth normal H = 3 ^h 37 ^m 15 ^s ΔS-P = 22.5 Δmeas = 22.6

No.	Date	Phase	G.M.C.T.	Remarks
26	December 23	eP _N	13 23 10	$\phi = 16^{\circ}6' N.$
		eP _E	13 23 11	$\lambda = 98^{\circ}0' W.$
		iPR ₁	13 23 47	
		iPc _N	13 26 53	Depth normal or near normal
		eE	13 27 10	
		eS _N	13 27 29	$H = 13^h 17^m 56^s$
		iX _{NE}	13 27 33	
		iE	13 27 43	$\Delta_{S-P} = 24^{\circ}0'$
		iN	13 27 47	$\Delta_{meas} = 23.9$
		eLE	13 29 53	
		eM _{NE}	13 31.0	
		F	Lost in changing record	
27	December 23	eN	23 26 50	Aftershock of #26
		iPR ₁	23 27 06	
		iPR ₂	23 27 09	$\phi = 16.6' N.$
		e(S) _N	23 30 47	$\lambda = 98.0' W.$
		e(SR ₁) _N	23 31 25	
		iL _{NE}	23 32.5	$H = 23^h 21^m 18^s$
		iE	23 34 38	
		iN	23 34 40	Depth normal
		iM _{NE}	23 35 00	
		eN	23 37 20	$\Delta_{meas} = 23.9$
		F	23 54 ±	

Minor Seismic Activity: December 22, 1937, 07^h55^m to 03^h03^s

A. W. Forstall, S.J.
Director

Records read by
F. Robertson

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. 104° 56' 54" W. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

FROM January, 1938 TO April, 1938

No.	Date	Phase	G.M.C.T.	Remarks
1	Jan. 23	ePE eN e(S)E eN iE ee eLNE F	8 ^h 41 ^m 24 ^s 8 41 30 8 48 16 8 48 18 8 48 36 8 52 00 8 56.0 9 19 ±	Ø = 21°0 N. λ = 156°3 W. H = 8 ^h 33 ^m 50 ^s Depth nearly normal. ΔP-H = 47°5 Δmeas = 47°5 Felt throughout the Hawaiian Islands.
2	March 8	ee eN ee iNE F	15 ^h 57 ^m 26 ^s 15 57 28 16 00 24 16 01 08 16 09 ±	Not reported by the other American Sta- tions. May not be of seismic origin.
3	March 22	ePE iPN ee ePR1N ePR1N ee ee eN eSN ee eSR1N eLE eMNE F	15 ^h 27 ^m 00 ^s 15 27 06 15 27 14 15 27 21 15 27 24 15 27 54 15 29 22 15 30 06 15 31 00 15 31 33 15 31 48 15 33.2 15 34.2 16 39 ±	Ø = 52°2 N. λ = 133°1 W. H = 15 ^h 22 ^m 08 ^s Δmeas = 21°7 ΔS-P = 21°8 ΔP-H = 21°7
4	March 23	ePE e(S)N eLNE F	14 10 00 14 14 26 14 18 22 14 33 ±	Weak Acapulco Deep?

Minor Seismic Activity: March 8, 15h21m to 15h26m; 20h22m to 20h27m
April 26, 23h48m to April 27 11h07m

Reverend A. W. Forstall, S.J.,
Director

Records read by
F. Robertson

DENVER

2.

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655, Met.
Long. 104° 56' 54" W. Lat. 39° 40' 36" N.
Time: Mean Greenwich, midnight to midnight
Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature, International.

May, 1938

No.	Date	Phase	G.M.C.T.	Remarks
5	May 3	iPN iPE ipPNE eE iPR ₁ N ipPR ₁ N iE eSN ePcPE isSE iE eN isSR ₁ NE iME iMN F	2h20m16s 2 20 17 2 20 32 2 20 44 2 20 46 2 21 00 2 21 29 2 24 14 2 24 18 2 24 46 2 24 50 2 25 18 2 25 21 2 26 56 2 27 00 2 43 ±	Ø = 18°2 N. λ = 99°1 W. H = 2h15m39s h = about 100 km. by Brunner Depth Chart. Damage reported at Iqualo, Mexico. ΔS-P = 22°2 ΔP-H = 22°0 Δmeas = 22°0
6	May 11	ePN eE ePR ₁ N eN eE eSE eE eSR ₁ E eSR ₁ N eLN iMEN F	14h49m53s 14 50 09 14 50 20 14 50 54 14 51 01 14 54 09 14 54 40 14 55 02 14 55 04 14 56.1 14 57.1 15 29 ±	Ø = 16°8 N. λ = 100°7 W. H = 14h44m45s Depth normal. ΔP-H = 23°3 ΔS-P = 23°6 Δmeas = 23°3

Denver Bulletin for May 1938

3.

No.	Date	Phase	G.M.C.T.	Remarks
7	May 12	ePR ₁ E eN eSP _E ePPSN e(ScPPcS)E eLE eMN eME F	15 ^h 57 ^m 38 ^s 15 57 58 16 06 51 16 07 51 16 08 07 16 29.5 16 33.5 16 34.0 17 17 ±	Ø = 59°0 S. λ = 147°5 E. H = 15h39m02s ΔPR ₁ -SP = 106°8 Δmeas = 106°9
8	May 19	e(PS)NE eE eLN eLE eMN eME F	17h39m46s 17 42 27 18 02.4 18 08.7 18 09.7 18 11.2 18 38 ±	Ø = 1°0 N. λ = 118°9 E. H = 17h08m46s Depth nearly normal. Δmeas = 123°4
9	May 23	eSKSE eN iE iSE eLE eLE F	7 ^h 40 ^m 34 ^s 7 40 39 7 40 44 7 41 06 8 00.0 8 01.0 8 36 ±	Ø = 36°9N λ = 141°1 E. H = 7h18m43s h = 100 km. Felt throughout the main Island of Japan. Δmeas = 82°5 ΔS-H = 82°7
10	May 28	(e) _E (e) _N eN eSN eLN iLE eME F	10 ^h 17 ^m 52 ^s 10 18 29 10 18 35 10 20 35 10 23.6 10 23 56 10 25.0 10 44 ±	Ø = 43°3 N. λ = 125°0 W. H = 10h14m06s Felt at Marshfield, coast of Oregon. Δmeas = 15°4

Minor Seismic Activity: May 19, 15h00m to 16h 03m.

A. W. Forstall, S.J.
Director

Records Read by
F. Robertson

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

 Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.

Nomenclature, International.

FROM June TO July 1938

No.	Date	Phase	G.M.C.T.	Remarks
11	June 10	ePN (e)N eSN eSEN i(SR ₁)N eLNE eMNE F	18 ^h 11 ^m 15 ^s 18 15 30 18 15 34 18 15 42 18 16 18 18 18 50 18 20.5 18 40 ±	$\Delta_{\text{meas}} = 24^{\circ}2$ $\Delta_{\text{P-H}} = 24^{\circ}2$ $\Delta_{\text{S-P}} = 24^{\circ}0$ Epicenter: $\phi = 16^{\circ}5$ N., $\lambda = 97^{\circ}9$ W. $H = 18^{\text{h}}06^{\text{m}}00^{\text{s}}$ Depth normal.
12	June 28	ePN eN epPN esPNE e(s)N eN eN esSN esSE eN iME iMN F	19 ^h 22 ^m 36 ^s 19 22 44 19 22 53 19 23 00 19 26 37 19 26 42 19 26 53 19 27 00 19 27 09 19 28 04 19 29 29 19 29 34 19 45 ±	Reported felt in Mexico City. $\Delta_{\text{meas}} = 22^{\circ}2$ $\Delta_{\text{P-H}} = 22^{\circ}1$ Epicenter: $\phi = 18^{\circ}0$ N., $\lambda = 99^{\circ}3$ W. $H = 19^{\text{h}}17^{\text{m}}48^{\text{s}}$ $h = \text{about } 100 \text{ km.}$ by the Brunner Depth Chart.
13	July 22	ePNE ePR ₁ N ePR ₂ N iN eE iN iE e(s)E eN iN i(SR ₁)E eLE eLN iME eLN F	7 ^h 52 ^m 53 ^s 7 53 16 7 53 20 7 53 29 7 53 52 7 54 08 7 54 17 7 56 53 7 56 56 7 57 06 7 57 17 7 58 59 7 59 13 7 59.7 8 02.0 8 33 ±	$\Delta_{\text{meas}} = 20^{\circ}8$ $\Delta_{\text{P-H}} = 20^{\circ}8$ Epicenter: $\phi = 18^{\circ}9$ N., $\lambda = 106^{\circ}6$ W. $H = 7^{\text{h}}46^{\text{m}}11^{\text{s}}$ Depth normal.

 A. W. Forstall, S.J.
Director

 Records Read by
F. Robertson

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Regis College, Denver, Colorado

Altitude: 1655 Met.

Long. $104^{\circ} 56' 54''$ W. Fr. Lat. $39^{\circ} 40' 36''$ N.

Time: Mean Greenwich, midnight to midnight.

Instrument: Wiechert 80 Kg., astatic horizontal pendulum.

Nomenclature, International.

FROM June TO July 1938

No.	Date	Phase	G.M.C.T.	Remarks
11	June 10	ePN (e)N eSN eSEN i(SR ₁)N eLNE eMNE F	18 ^h 11 ^m 15 ^s 18 15 30 18 15 34 18 15 42 18 16 18 18 18 50 18 20.5 18 40 ±	$\Delta_{\text{meas}} = 24^{\circ}.2$ $\Delta_{\text{P-H}} = 24^{\circ}.2$ $\Delta_{\text{S-P}} = 24^{\circ}.0$ Epicenter: $\phi = 16^{\circ}5$ N., $\lambda = 97^{\circ}9$ W. $H = 18^{\text{h}}06^{\text{m}}00^{\text{s}}$ Depth normal.
12	June 28	ePN eN epPN esPNE e(s)N eN eN esSN esSE eN iME iMN F	19 ^h 22 ^m 36 ^s 19 22 44 19 22 53 19 23 00 19 26 37 19 26 42 19 26 53 19 27 00 19 27 09 19 28 04 19 29 29 19 29 34 19 45 ±	Reported felt in Mexico City. $\Delta_{\text{meas}} = 22^{\circ}.2$ $\Delta_{\text{P-H}} = 22^{\circ}.1$ Epicenter: $\phi = 18^{\circ}0$ N., $\lambda = 99^{\circ}3$ W. $H = 19^{\text{h}}17^{\text{m}}48^{\text{s}}$ $h = \text{about } 100 \text{ km.}$ by the Brunner Depth Chart.
13	July 22	ePNE ePR ₁ N ePR ₂ N iN eE iN iT e(s)E eN iN i(SR ₁)E eLE eLN iME eMN F	7 ^h 52 ^m 53 ^s 7 53 16 7 53 20 7 53 29 7 53 52 7 54 08 7 54 17 7 56 53 7 56 56 7 57 06 7 57 17 7 58 59 7 59 13 7 59.7 8 02.0 8 33 ±	$\Delta_{\text{meas}} = 20^{\circ}.8$ $\Delta_{\text{P-H}} = 20^{\circ}.8$ Epicenter: $\phi = 18^{\circ}9$ N., $\lambda = 106^{\circ}.6$ W. $H = 7^{\text{h}}46^{\text{m}}11^{\text{s}}$ Depth normal.

A. W. Forstall, S.J.
Director

Records Read by
F. Robertson

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Altitude: 1655 Met.
 Long. 104 56' 54" W. Fr. Lat. 39 40' 36" N.
 Time: Mean Greenwich, midnight to midnight.
 Instrument: Wiechert 80Kg., astatic horizontal pendulum.

FROM August TO September 1938

No.	Date	Phase	G.M.C.T.	Remarks
14	August 3	ePE iNE ePR ₁ N eLN eE iM _N F	13 ^h 35 ^m 40 ^s 13 35 52 13 36 00 13 41 16 13 41 33 13 42 17 13 53 ±	$\Delta = 20^{\circ} \pm$ Near Vancouver Island.
15	August 8	(e)SE iSR ₁ NE iLN iLE iN iME F	18 ^h 31 ^m 44 ^s 18 32 00 18 32 30 18 32 36 18 32 42 18 33 00 18 44 ±	Beginning phases obscured. According to Pasadena: Gulf of California roughly 27° N. and 112° W. $\Delta = 14^{\circ} \pm$
Minor Seismic Activity: August 2, 20h30m to 20h49m				
16	Sept 12	(e)E iPR ₁ NE eN eE iN eSE e(L) _N i(L) _E F	6 ^h 13 ^m 40 ^s 6 14 28 6 16 00 6 16 13 6 16 32 6 17 34 6 18 00 6 18 08 6 24 ±	$\phi = 40^{\circ} 2$ N. $\lambda = 125^{\circ} 0$ W. $H = 6^{\text{h}} 10^{\text{m}} 35^{\text{s}}$ Depth normal. According to Pasadena: Slight damage in Humboldt County, California $\Delta_{\text{PR}_1-H} = 1597$ $\Delta_{\text{meas}} = 1597$
17	Sept 17	(e)N iSR ₁ N iSR ₁ E F	3 ^h 39 ^m 16 ^s 3 40 12 3 40 13 3 47 ±	$\phi = 35^{\circ} 45$ N. $\lambda = 90^{\circ} 35$ W. $H = 3^{\text{h}} 34^{\text{m}} 23.3^{\text{s}}$ $\Delta_{\text{SR}_1-H} = 12^{\circ} 35$ $\Delta_{\text{meas}} = 12^{\circ} 4$ Reported felt throughout Arkansas and in parts of Kentucky, Tennessee, Oklahoma, Mississippi, and Missouri.

Denver Bulletin for August and September 1938

6.

No.	Date	Phase	G.M.C.T.	Remarks
18	Sept 17	(e)N eN eE eSne eN eSge eN eE iN iE F	17 ^h 23 ^m 00 ^s 17 23 07 17 23 11 17 23 29 17 24 07 17 24 11 17 24 16 17 24 20 17 24 27 17 24 29 17 32 ±	$\phi = 33^{\circ}06' N.$ $\lambda = 109^{\circ}01' W.$ $H = 17^h20^m16^s$ $\Delta S_g-H = 6995$ $\Delta_{meas} = 790$ Felt in Arizona and New Mexico.
19	Sept 28	iN eE eE eE eN iE iNE iNE iE	15 ^h 18 ^m 00 ^s 15 18 08 15 19 12 15 19 26 15 19 34 15 19 36 15 23 08 15 26 10 15 27 50	May not be of Seismic origin.
20	Sept 28	(e)N eSN eSE eNE eLNE eE F	15 ^h 39 ^m 08 ^s 15 40 09 15 40 10 15 40 34 15 41 20 15 41 50 15 55 ±	Local?
21	Sept 29	(e)(Pn)N e(P*)N (e)PN eSne iN i(S*)NE (e)SN F	23 ^h 38 ^m 08 ^s 23 38 16 23 38 41 23 39 24 23 39 35 23 39 43 23 40 13 23 48 ±	$\phi = 33^{\circ}06' N.$ $\lambda = 109^{\circ}01' W.$ $H = 23^h36^m17^s$ $\Delta S_n-H = 700$ $\Delta_{meas} = 700$ Reported felt in Hillsboro, south- western New Mexico.

Minor Seismic Activity: September 28, 14h46m to 19h54m

 A. W. Forstall, S.J.
Director

 Records read by
F. Robertson
Instructor

Denver Bulletin for August and September 1938

6.

No.	Date	Phase	G.M.C.T.	Remarks
18	Sept 17	(e)N eN eE eSNE eN eSGE eN eE iN iE F	17 ^h 23 ^m 00 ^s 17 23 07 17 23 11 17 23 29 17 24 07 17 24 11 17 24 16 17 24 20 17 24 27 17 24 29 17 32 ±	Ø = 33°6 N. λ = 103°1 W. H = 17 ^h 20 ^m 16 ^s Δ _{Sg-H} = 6995 Δ _{meas} = 790 Felt in Arizona and New Mexico.
19	Sept 28	iN eE eE eE eN iE iNE iNE iE	15 ^h 18 ^m 00 ^s 15 18 08 15 19 12 15 19 26 15 19 34 15 19 36 15 23 08 15 26 10 15 27 50	May not be of Seismic origin.
30	Sept 28	(e)N eSN eSE eNE eLNE eE F	15 ^h 39 ^m 08 ^s 15 40 09 15 40 10 15 40 34 15 41 20 15 41 50 15 55 ±	Local?
21	Sept 29	(e)(Pn)N e(P*)N (e)P _N eSNE iN i(S*)NE (e)SN F	23 ^h 38 ^m 08 ^s 23 38 16 23 38 41 23 39 24 23 39 35 23 39 43 23 40 13 23 48 ±	Ø = 33°6 N. λ = 103°1 W. H = 23 ^h 36 ^m 17 ^s Δ _{S_n-H} = 700 Δ _{meas} = 700 Reported felt in Hillsboro, south- western New Mexico.

Minor Seismic Activity: September 28, 14h46m to 19h54m

A. W. Forstall, S.J.
Director

Records read by
F. Robertson
Instructor

D E N V E R

7.

RECORD OF THE EARTHQUAKE STATION

Altitude: 1655 Met.

Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

 Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
 Nomenclature International

FROM October TO December 1938

No.	Date	Phase	G.L.C.T.	Remarks
22	Nov 5	(e)Pe ePe iNE iE iN iE iE iSKSE eSKSN iSE eSN F	8h55m44s 8 55 48 8 55 52 8 56 03 8 56 36 8 56 42 8 57 18 9 05 49 9 05 54 9 06 08 9 06 10 10 19 ±	$\phi = 36^{\circ}8$ N. $\lambda = 139^{\circ}6$ E. $H = 8^h43^m18^s$ Depth normal. $\Delta_{\text{meas}} = 83^{\circ}6$ $\Delta_{P-H} = 83^{\circ}6$ $\Delta_{S-P} = 83^{\circ}6$
23	Nov 5	e(P)E (e)PcPN iPcPN eE iE iN ePR1E eN iSKSNE iSE iE iN F	11h02m40s 11 02 41 11 02 42 11 02 58 11 03 06 11 03 46 11 05 46 11 12 42 11 12 44 11 12 51 11 13 02 11 13 08 12 27 ±	$\phi = 36^{\circ}7$ N. $\lambda = 141^{\circ}0$ E. $H = 10^h50^m13^s$ Depth probably normal. $\Delta_{\text{meas}} = 82^{\circ}7$ $\Delta_{PR1-H} = 82^{\circ}7$
24	Nov 5	e(P)E eE i(S)E eN F	23h07m14s 23 07 47 23 08 21 23 08 25 23 13 ±	Near Earthquake?
25	Nov 6	(e)(P)E (e)N iE iE iN iN iN iN iN	9h05m59s 9 06 14 9 06 18 9 06 20 9 06 27 9 06 34 9 07 30 9 07 40 9 08 03	$\phi = 37^{\circ}4$ N. $\lambda = 143^{\circ}7$ E. $H = 8^h53^m58^s$ Normal depth. $\Delta_{\text{meas}} = 77^{\circ}8$ $\Delta_{S-P} = 78^{\circ}3$ Line faint.

D E N V E R

RECORD OF THE EARTHQUAKE STATION

Altitude: 1655 Met.

Long. 104° 56' 54" W. Fr. Lat. 39° 40' 36" N.

Time: Mean Greenwich, midnight to midnight.

 Instrument: Wiechert 80 Kg., astatic horizontal pendulum.
Nomenclature International

FROM October TO December 1938

No.	Date	Phase	G.L.C.T.	Remarks
22	Nov 5	(e)PE ePE iNE iE iN iE iE iSKSE eSKSN iSE eSN F	8 ^h 55 ^m 44 ^s 8 55 48 8 55 52 8 56 03 8 56 36 8 56 42 8 57 18 9 05 49 9 05 54 9 06 08 9 06 10 10 19 ±	Ø = 36°8 N. λ = 139°6 E. H = 8 ^h 43 ^m 18 ^s Depth normal. Δ _{meas} = 83°6 Δ _{P-H} = 83°6 Δ _{S-P} = 83°6
23	Nov 5	e(P)E (e)PcPN iPcPN eE iE iN ePRiE eN iSKSNE iSE iE iN F	11 ^h 02 ^m 40 ^s 11 02 41 11 02 42 11 02 58 11 03 06 11 03 46 11 05 46 11 12 42 11 12 44 11 12 51 11 13 02 11 13 08 12 27 ±	Ø = 36°7 N. λ = 141°0 E. H = 10 ^h 50 ^m 13 ^s Depth probably normal. Δ _{meas} = 82°7 Δ _{PRi-H} = 82°7
24	Nov 5	e(P)E eE i(S)E eN F	23 ^h 07 ^m 14 ^s 23 07 41 23 08 21 23 08 25 23 13 ±	Near Earthquake?
25	Nov 6	(e)(P)E (e)N iE iE iN iN iN iN iN	9 ^h 05 ^m 59 ^s 9 06 14 9 06 18 9 06 20 9 06 27 9 06 34 9 07 30 9 07 40 9 08 03	Ø = 37°4 N. λ = 143°7 E. H = 8 ^h 53 ^m 58 ^s Normal depth. Δ _{meas} = 77°8 Δ _{S-P} = 78°3 Line faint.

No.	Date	Phase	G.L.C.T.	Remarks
25 (cont.)	Nov 6	ePR ₁ NE e(S) _E ePSNE iN iE iN eLE eLN eMN eME F	9h08m46s 9 15 57 9 16 30 9 16 33 9 16 43 9 17 04 9 30.0 9 30.5 9 36 ± 9 38.0 11 11 ±	
26	Nov 6	eE eLE eME F	22h20m20s 22 29.0 22 46.0 23 35 ±	Aftershock of Number 25.
27	Nov 10	ePE eN iPNE iE iN iPR ₁ NE iPR ₂ NE i(PcP)N eE iN iSNE iN i(ScP)E iSP ₁ E eLN eLNE eM ₁ N iM ₁ E eM ₂ E eM ₃ E F	20h26m03s 20 26 08 20 26 10 20 26 46 20 26 54 20 27 34 20 28 02 20 29 10 20 31 59 20 32 00 20 32 05 20 32 34 20 32 40 20 33 27 20 35.5 20 36.7 20 40.2 20 41.3 20 46.5 20 48.7 (Lost in changing records)	Ø = 55°6 N. λ = 157°7 W. H = 20h18m48s Depth normal. Δ _{meas} = 37°8 Δ _{S-P} = 37°7
28	Nov 17	ePN e(pP)N epPE i(pP)NE iN eN iN iSE iSN iSSE F	4h01m52s 4 02 00 4 02 01 4 02 08 4 02 14 4 07 04 4 07 40 4 07 48 4 07 50 4 08 04 5 20 ±	J.S.A. Epicenter: Ø = 55°3 N. λ = 157°5 W. H = 3h54m31s h = ca 50 km. by Brunner Depth Chart. S-P = 5m55s Δ _{S-P} = 37°8 Δ _{meas} = 37°8

Minor Seismic Activity: Nov 5, 17h55m to 18h02m; Nov 16, 21h10m to 23h00m.

No.	Date	Phase	G.M.C.T.	Remarks
25 (cont.)	Nov 6	ePR ₁ NE e(S) _E ePSNE iN iE iN eLE eLN eMN eME F	9 ^h 08 ^m 46 ^s 9 15 57 9 16 30 9 16 33 9 16 43 9 17 04 9 30.0 9 30.5 9 36 ± 9 36.0 11 11 ±	
26	Nov 6	eE eLE eME F	22 ^h 20 ^m 20 ^s 22 26.0 22 46.0 23 35 ±	Aftershock of Number 25.
27	Nov 10	ePE eN iPNE iE iN iPR ₁ NE iPP ₂ NE i(PcP)N eE iN iSNE iN i(ScP)E iSP ₁ E eLN eLNE eM ₁ N iM ₁ E eM ₂ E eM ₃ E F	20 ^h 26 ^m 06 ^s 20 26 08 20 26 10 20 26 46 20 26 54 20 27 34 20 28 02 20 28 10 20 31 59 20 32 00 20 32 05 20 32 34 20 32 40 20 33 27 20 35.5 20 35.7 20 40.2 20 41.3 20 46.5 20 48 7 (Lost in changing records)	Ø = 55°6 N. λ = 157°7 W. H = 20 ^h 18 ^m 48 ^s Depth normal. Δ _{meas} = 37°8 Δ _{S-P} = 37°7
28	Nov 17	ePN e(pp)N epPE i(pp)NE iN eN iN iSE iSN iSSE F	4 ^h 01 ^m 52 ^s 4 02 00 4 02 01 4 02 08 4 02 14 4 07 04 4 07 40 4 07 48 4 07 50 4 08 04 5 20 ±	J.S.A. Epicenter: Ø = 55°3 N. λ = 157°5 W. H = 3 ^h 54 ^m 31 ^s h = ca 50 km. by Brunner Depth Chart. S-P = 5 ^m 55 ^s Δ _{S-P} = 37°8 Δ _{meas} = 37°8

Minor Seismic Activity: Nov 5, 17h55m to 18h02m; Nov 16, 21h10m to 23h00m.

A. W. Forstell, S. J. Director

F. Robertson, Instructor

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

1.

Altitude: 1655 Met.
 Longitude: 104° 56' 54" W. Latitude: 39° 40' 36" N.

Station Bulletin for January and February 1939

No.	Date	Phase	G.M.C.T.	Remarks
1	Jan 25	ePN iN eE ipPN iN iN eE iN eN eE iSE eSN issNE iN F	3 ^h 44 ^m 29 ^s 3 44 40 3 44 42 3 44 58 3 45 03 3 45 23 3 45 42 3 46 01 3 48 22 3 51 44 3 54 36 3 54 37 3 55 16 3 55 33 4 19 ±	$\phi = 36^{\circ}4$ S. $\lambda = 72^{\circ}1$ W. $H = 3^h33^m20^s$ $h = 100+$ km. by the Brunner Depth Chart. Destructive in Central Chile. $\Delta P-H = 82^{\circ}2$ $\Delta_{\text{meas}} = 82^{\circ}0$
2	Feb 26	iP?NE ? iN iE eE e(S)?N eN i(L)?E iN iE F	23 ^h 29 ^m 46 ^s 23 30 00 23 30 36 23 30 38 23 33 19 23 33 45 23 34 10 23 34 16 23 34 26 23 34 32 23 50 ±	Break in line un- explained. Pens did not record. $\Delta_{\text{meas}} = 13^{\circ}6$ $\phi = 28^{\circ}2$ N., $\lambda = 113^{\circ}7$ W. $H = 23^h27^m30^s$ Depth probably normal or near normal. Epicenter on the basis of data from Florissant, Cape Girardeau, Pasadena, and Ottawa.

A. W. Forstall, S.J.
 Director

F. Robertson
 Instructor

1346/129 MARS 1946

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

1.

Altitude: 1655 Met.
 Longitude: $104^{\circ} 56' 54''$ W. Latitude: $39^{\circ} 40' 36''$ N.

Station Bulletin for January and February 1939

No.	Date	Phase	G.M.C.T.	Remarks
1	Jan 25	ePN iN eE ipPN iN iN eE iN eN eE iSE eSN isSNE iN F	$3^h 44^m 29^s$ 3 44 40 3 44 42 3 44 58 3 45 03 3 45 23 3 45 42 3 46 01 3 46 22 3 51 44 3 54 36 3 54 37 3 55 16 3 55 33 4 19 $\pm$	$\phi = 36^{\circ} 4$ S. $\lambda = 72^{\circ} 1$ W. $H = 3^h 33^m 20^s$ $h = 100+$ km. by the Brunner Depth Chart. Destructive in Central Chile. $\Delta P-H = 82^{\circ} 2$ $\Delta_{\text{meas}} = 82^{\circ} 0$
2	Feb 26	iP?NE ? iN iE eE e(S)?N eN i(L)?E iN iE F	$23^h 29^m 46^s$ 23 30 00 23 30 36 23 30 38 23 33 19 23 33 45 23 34 10 23 34 16 23 34 26 23 34 32 23 50 $\pm$	Break in line un- explained. Pens did not record. $\Delta_{\text{meas}} = 13^{\circ} 6$ $\phi = 28^{\circ} 2$ N., $\lambda = 113^{\circ} 7$ W. $H = 23^h 27^m 30^s$ Depth probably normal or near normal. Epicenter on the basis of data from Florissant, Cape Girardeau, Pasadena, and Ottawa.

A. W. Forstall, S.J.
 Director

F. Robertson
 Instructor

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

Altitude: 1655 Met.

Longitude: 104°56'54" W. Latitude: 39°40'36" N.

Station Bulletin for MARCH to JULY, 1939

No.	Date	Phase	G.M.C.T.	Remarks
3	Apr. 17	ePE eN e(S)E iN F	17 ^h 51 ^m 00 ^s 17 51 14 17 51 46 17 52 00 17 55 +	
4	Apr. 18	ePNE iPE iPN ipPNE eSE eSN eN esSE esSN eSR1N eSR1E F	6 ^h 34 ^m 14 ^s 6 34 18 6 34 22 6 34 37 6 43 42 6 43 45 6 44 22 6 44 38 6 44 41 6 48 36 6 48 50 7 06 +	$\Delta S-P = 74^{\circ}2$ $\Delta_{\text{meas}} = 74^{\circ}2$ $\phi = 23^{\circ}6$ S. $\lambda = 70^{\circ}2$ W. $H = 6^{\text{h}}22^{\text{m}}50^{\text{s}}$ $h = 100$ km. by the Brunner Depth Chart.
5	Apr. 26	ePE eE eN iE eSKSE iSKSE ePSE iPPSN iE F	15 ^h 09 ^m 41 ^s 15 09 59 15 10 00 15 10 10 15 20 15 15 20 16 15 24 25 15 25 10 15 25 17 15 40 +	Distant
6	Apr. 30	eSKSE iE iSKKSE iSE eE iE iPSE eN eSR1E iSR1E iSR1N eLE eMNE F	2 ^h 19 ^m 53 ^s 2 20 06 2 20 19 2 21 31 2 21 41 2 21 46 2 22 47 2 27 47 2 28 27 2 28 31 2 28 43 2 42.1 2 46.5 3 33 +	$\Delta_{\text{meas}} = 102^{\circ}2$ $\phi = 10^{\circ}8$ S $\lambda = 158^{\circ}5$ E. $H = 2^{\text{h}}55^{\text{m}}24^{\text{s}}$ Destructive in the Solomon Islands.

Bulletin for MARCH to JULY, 1935

No.	Date	Phase	G.M.C.T.	Remarks
7	May 1	eE eME eMN F	23h58m56s 23 59 0 23 59.1 24 10 +	
8	May 2	ePNE ePR1N eE eN eN eN eN iN eSN eSE i(SR1)N iN eLN iMNE F	13h12m04s 13 18 17 13 18 24 13 18 26 13 19 04 13 19 09 13 20 04 13 20 27 13 20 43 13 20 44 13 21 04 13 21 30 13 21.5 13 22.0 14 29 +	$\Delta_{\text{meas}} = 13^{\circ}6$ $\Delta_{\text{S-P}} = 13^{\circ}4$ $\Delta_{\text{P-H}} = 13^{\circ}6$ $\phi = 29^{\circ}4 \text{ N}$ $\lambda = 113^{\circ}5 \text{ W}$ $H = 13^{\text{h}}14^{\text{m}}49^{\text{s}}$ Felt in San Diego Very large amplitudes
9	May 4	e(S)E eNE eE eNE eN eE iN F	0h00m00s 0 00 09 0 02 04 0 04 00 0 04 35 0 04 29 0 05.0 0 20 +	
10	May 8	iPNE iE ipPN eN iN ipPE eE iSE eSN iE esSE eMNE F	1h57m04s 1 57 11 1 57 18 1 57 21 1 57 24 1 57 35 2 05 14 2 05 24 2 05 26 2 05 32 2 06 05 2 17.9 2 43 +	$\Delta_{\text{meas}} = 61^{\circ}7$ $\Delta_{\text{P-H}} = 61^{\circ}6$ $\phi = 36^{\circ}4 \text{ N.}$ $\lambda = 24^{\circ}3 \text{ W.}$ $H = 1^{\text{h}}46^{\text{m}}53^{\text{s}}$ $h = 90 \text{ to } 100 \text{ km. by}$ the Brunner Depth Chart. Damage on Santa Maria Island.
11	May 11	eNE iMN iME F	18h10m02s 18 10 16 18 10 18 18 18 +	Nevada?
12	June 8	eE iE F	20 58 48 21 00 18 21 04 +	$\phi = 14.5^{\circ} \text{S}, \lambda = 174.3^{\circ} \text{W}$ $h = \text{ca } 100 \text{ km. by}$ Brunner Depth Chart $H = 20^{\text{h}}43^{\text{m}}55^{\text{s}}$

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

Altitude: 1655 Met.

Longitude: 104°56'54" W. Latitude: 39°40'36" N.

Station Bulletin for MARCH to JULY, 1939

No.	Date	Phase	G.M.C.T.	Remarks
3	Apr. 17	eP _E eN e(S) _E iN F	17 ^h 51 ^m 00 ^s 17 51 14 17 51 46 17 52 00 17 55 +	
4	Apr. 18	ePNE iPE iPN ipPNE eSE eSN eN esSE esSN eSR1N eSR1E F	6 ^h 34 ^m 14 ^s 6 34 18 6 34 22 6 34 37 6 43 42 6 43 45 6 44 22 6 44 38 6 44 41 6 48 36 6 48 50 7 06 +	$\Delta S-P = 74^{\circ}2$ $\Delta_{\text{meas}} = 74^{\circ}2$ $\phi = 26^{\circ}8$ S. $\lambda = 70^{\circ}2$ W. $H = 6^{\text{h}}22^{\text{m}}50^{\text{s}}$ $h = 100$ km. by the Brunner Depth Chart.
5	Apr. 26	eP _E eE eN iE eSKSE iSKSE ePSE iPPSN iE F	15 ^h 09 ^m 41 ^s 15 09 59 15 10 00 15 10 10 15 20 15 15 20 16 15 24 25 15 25 10 15 25 17 15 40 +	Distant
6	Apr. 30	eSKSE iE iSKKSE iSE eE iE iPSE eN eSR1E iSR1E iSR1N eLE eMNE F	2 ^h 19 ^m 53 ^s 2 20 06 2 20 19 2 21 31 2 21 41 2 21 46 2 22 47 2 27 47 2 28 27 2 28 31 2 28 43 2 42.1 2 46.5 3 33 +	$\Delta_{\text{meas}} = 102^{\circ}2$ $\phi = 109^{\circ}8$ S $\lambda = 158^{\circ}5$ E. $H = 2^{\text{h}}55^{\text{m}}24^{\text{s}}$ Destructive in the Solomon Islands.

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

Altitude: 1655 Met.

Longitude: 104°56'54" W. Latitude: 39°40'36" N.

Station Bulletin for MARCH to JULY, 1939

No.	Date	Phase	G.M.C.T.	Remarks
3	Apr. 17	ePE eN e(S)E iN F	17 ^h 51 ^m 00 ^s 17 51 14 17 51 46 17 52 00 17 55 +	
4	Apr. 18	ePNE iPE iPN ipPNE eSE eSN eN esSE esSN eSR1N eSR1E F	6 ^h 34 ^m 14 ^s 6 34 18 6 34 22 6 34 37 6 43 42 6 43 45 6 44 22 6 44 38 6 44 41 6 48 36 6 48 50 7 06 +	$\Delta S-P = 74^{\circ}2$ $\Delta_{\text{meas}} = 74^{\circ}2$ $\phi = 23^{\circ}8$ S. $\lambda = 70^{\circ}2$ W. $H = 6^{\text{h}}22^{\text{m}}50^{\text{s}}$ $h = 100$ km. by the Brunner Depth Chart.
5	Apr. 26	ePE eE eN iE eSKSE iSKSE ePSE iPPSN iE F	15 ^h 09 ^m 41 ^s 15 09 59 15 10 00 15 10 10 15 20 15 15 20 16 15 24 25 15 25 10 15 25 17 15 40 +	Distant
6	Apr. 30	eSKSE iE iSKKSE iSE eE iE iPSE eN eSR1E iSR1E iSR1N eLE eMNE F	2 ^h 19 ^m 53 ^s 2 20 06 2 20 19 2 21 31 2 21 41 2 21 46 2 22 47 2 27 47 2 28 27 2 28 31 2 28 43 2 42.1 2 48.5 3 33 +	$\Delta_{\text{meas}} = 102^{\circ}2$ $\phi = 10^{\circ}8$ S $\lambda = 158^{\circ}5$ E. $H = 2^{\text{h}}55^{\text{m}}24^{\text{s}}$ Destructive in the Solomon Islands.

Bulletin for MARCH to JULY, 193

No.	Date	Phase	G.M.C.T.	Remarks
7	May 1	e _F e _{ME} e _{MN} F	23 ^h 58 ^m 56 ^s 23 58.0 23 59.1 24 10 ±	
8	May 2	ePNE ePR ₁ N eE eN eN eN eN iN eSN eSE i(SR ₁)N i _N eLN iMNE F	13 ^h 18 ^m 04 ^s 13 18 11 13 18 24 13 18 26 13 19 04 13 19 09 13 20 04 13 20 27 13 20 43 13 20 44 13 21 04 13 21 20 13 21.5 13 22.0 14 29 ±	$\Delta_{\text{meas}} = 13^{\circ}6$ $\Delta_{\text{S-P}} = 13^{\circ}4$ $\Delta_{\text{P-H}} = 13^{\circ}6$ $\phi = 29^{\circ}4 \text{ N}$ $\lambda = 113^{\circ}5 \text{ W}$ $H = 13^{\text{h}}14^{\text{m}}49^{\text{s}}$ Felt in San Diego Very large amplitudes
9	May 4	e(S) _E eNE eE eNE eN eE iN F	0 ^h 00 ^m 00 ^s 0 00 09 0 02 04 0 04 00 0 04 25 0 04 29 0 05.0 0 20 ±	
10	May 8	iPNE iE ipPN eN iN ipPE eE iSE eSN iE esSE eMNE F	1 ^h 57 ^m 04 ^s 1 57 11 1 57 18 1 57 21 1 57 24 1 57 25 2 05 14 2 05 24 2 05 26 2 05 32 2 06 05 2 17.9 2 43 ±	$\Delta_{\text{meas}} = 61^{\circ}7$ $\Delta_{\text{P-H}} = 61^{\circ}6$ $\phi = 33^{\circ}4 \text{ N.}$ $\lambda = 24^{\circ}3 \text{ W.}$ $H = 1^{\text{h}}46^{\text{m}}53^{\text{s}}$ $h = 90 \text{ to } 100 \text{ km. by}$ the Brunner Depth Chart. Damage on Santa Maria Island.
11	May 11	eNE iM _N iME F	18 ^h 10 ^m 02 ^s 18 10 16 18 10 18 18 18 ±	Nevada?
12	June 8	eE iE F	20 59 48 21 00 18 21 04 ±	$\phi = 14.5\text{S}, \lambda = 174.3\text{W}$ $h = \text{ca } 100 \text{ km. by}$ Brunner Depth Chart $H = 20^{\text{h}}43^{\text{m}}55^{\text{s}}$

Bulletin for MARCH to JULY, 1930

No.	Date	Phase	G.M.C.T.	Remarks
7	May 1	e _E e _M _E e _M _N F	23h58m56s 23 58.0 23 59.1 24 10 +	
8	May 2	ePNE ePR ₁ N e _E e _N e _N e _N e _N i _N e _{SN} e _{SE} i(SR ₁)N i _N e _{LN} i _{MNE} F	13h18m04s 13 18 11 13 18 24 13 18 26 13 19 04 13 19 09 13 20 04 13 20 27 13 20 43 13 20 44 13 21 04 13 21 20 13 21.5 13 22.0 14 29 +	$\Delta_{\text{meas}} = 13^{\circ}6$ $\Delta_{\text{S-P}} = 13^{\circ}4$ $\Delta_{\text{P-H}} = 13^{\circ}6$ $\phi = 29^{\circ}4$ N $\lambda = 113^{\circ}5$ W H = 13h14m49s Felt in San Diego Very large amplitudes
9	May 4	e(S) _E e _{NE} e _E e _{NE} e _N e _E i _N F	0h00m00s 0 00 09 0 02 04 0 04 00 0 04 35 0 04 39 0 05.0 0 20 +	
10	May 8	iPNE i _E iP _P N e _N i _N iP _P E e _E i _{SE} e _{SN} i _E e _{SE} e _{MNE} F	1h57m04s 1 57 11 1 57 18 1 57 21 1 57 24 1 57 25 2 05 14 2 05 24 2 05 26 2 05 32 2 06 05 2 17.9 2 43 +	$\Delta_{\text{meas}} = 61^{\circ}7$ $\Delta_{\text{P-H}} = 61^{\circ}6$ $\phi = 33^{\circ}4$ N. $\lambda = 24^{\circ}3$ W. H = 1h46m53s h = 90 to 100 km. by the Brunner Depth Chart. Damage on Santa Maria Island.
11	May 11	e _{NE} i _M _N i _M _E F	18h10m02s 18 10 16 18 10 18 18 18 +	Nevada?
12	June 8	e _E i _E F	20 59 48 21 00 18 21 04 +	$\phi = 14.5$ S, $\lambda = 174.3$ W h = ca. 100 km. by Brunner Depth Chart H = 20h46m55s

D E N V E R

Bulletin for MARCH to JULY, 1939

No.	Date	Phase	G.M.C.T.	Remarks
13	June 9	e(SR ₁) _E eLE iEN iN eMN F	0h27m10s 0 28.2 0 28.4 0 28 32 0 31 32 0 40 ±	According to Floris- sant Epicenter: Region $\phi = 15^{\circ}1$ N. $\lambda = 97^{\circ}7$ W. $H = 0h15.6m$ $\Delta_{meas} = 25^{\circ}3$
14	June 9	eE eE eE eNE eN eN iN F	0h59m00s 1 01 38 1 03 40 1 04 00 1 05 10 1 07 00 1 07 08 1 15 ±	Probably an after- shock of #13
15	June 24	eNE iE iN iNE F	16h33.0m 16 33 14 16 33 28 16 33 40 16 43 ±	

Minor Seismic Activity:

April 17, 15^h40^m to April 18, 01^h00^m
 April 25, 21^h54^m to April 25, 22^h08^m
 April 26, 23^h02^m to April 27, 00^h32^m
 May 8, 04^h00^m to May 8, 05^h07^m

A. W. Forstall, S.J.
Director

F. Robertson
Instructor

D E N V E R

Bulletin for MARCH to JULY, 1939

No.	Date	Phase	G. M. C. T.	Remarks
13	June 9	e(SR ₁) _E eL _E iEN iN eMN F	0h27m10s 0 28.2 0 28.4 0 28 32 0 31 32 0 40 ±	According to Floris- sant Epicenter: Region $\phi = 15^{\circ}1$ N. $\lambda = 97^{\circ}7$ W. $H = 0h15.6m$ $\Delta_{meas} = 25^{\circ}3$
14	June 9	eE eeE eeE eNE eN eN iN F	0h59m00s 1 01 38 1 03 40 1 04 00 1 05 10 1 07 00 1 07 08 1 15 ±	Probably an after- shock of #13
15	June 24	eNE iE iN iNE F	16h33.0m 16 33 14 16 33 28 16 33 40 16 43 ±	

Minor Seismic Activity:

April 17, 15h40^m to April 18, 01h00^m
 April 25, 21h54^m to April 25, 22h08^m
 April 26, 23h02^m to April 27, 00h32^m
 May 8, 04h00^m to May 8, 05h07^m

A. W. Forstall, S.J.
Director

F. Robertson
Instructor

D E N V E R
Bulletin for MARCH to JULY, 1939

4.

No.	Date	Phase	G. M. C. T.	Remarks
13	June 9	e(SR ₁) _E eL _E iEN iN eMN F	0h27m10s 0 28.2 0 28.4 0 28 32 0 31 32 0 40 ±	According to Floris- sant Epicenter: Region $\phi = 15^{\circ}1$ N. $\lambda = 97^{\circ}7$ W. $H = 0h15.6^m$ $\Delta_{\text{meas}} = 25^{\circ}3$
14	June 9	eE eE eE eNE eN eN iN F	0h59m00s 1 01 38 1 03 40 1 04 00 1 05 10 1 07 00 1 07 08 1 15 ±	Probably an after- shock of #13
15	June 24	eNE iE iN iNE F	16h33.0m 16 33 14 16 33 28 16 33 40 16 43 ±	

Minor Seismic Activity:

April 17, 15^h40^m to April 18, 01^h00^m
 April 25, 21^h54^m to April 25, 22^h08^m
 April 26, 23^h02^m to April 27, 00^h32^m
 May 8, 04^h00^m to May 8, 05^h07^m

A. W. Forstall, S.J.
Director

F. Robertson
Instructor

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

5.

Altitude: 1655 Met.

Longitude: $104^{\circ}56'54''$ W. - Latitude: $39^{\circ}40'38''$ N.

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G. M. C. T.	Remarks
16	Sept. 8	ePE iPE iPN ipPN ipPE eE eE eE eE iSE esSE eEN eE eLNE eME eMN F	12 ^h 13 ^m 44 ^s 12 13 48 12 13 49 12 13 57 12 13 58 12 14 25 12 14 50 12 15 12 12 20 41 12 20 47 12 21 01 12 21 25 12 22 25 12 29.4 12 32.8 12 33.4 13 59 ±	$\phi = 53^{\circ}7' N.$ $+\lambda = 175^{\circ}8' E.$ $H = 13^h05^m07^s$ $h = 50$ km by the Brunner Depth Chart $\Delta_{meas} = 48^{\circ}5'$ $\Delta_{P-H} = 48^{\circ}5'$ $\Delta_{S-P} = 48^{\circ}6'$
17	Sept. 21	(e)N eN eN eL?N eN iN iNE iMNE F	21 ^h 30 ^m 23 ^s 21 31 36 21 32 22 21 33 42 21 33 56 21 34 21 21 34 25 21 34 38 21 50 ±	$\phi = 30^{\circ}0' N,$ $\lambda = 114^{\circ}0' W.$ $H = 21^h27^m31^s$ $\Delta_{meas} = 12^{\circ}5'$
18	Sept. 25	eN eE eNE eME eMN F	16 ^h 36 ^m 46 ^s 16 36 48 16 37 00 16 37.5 16 38.0 17 00 ±	
19	Nov. 13	ePE ipPNE iE isPNE eE eSN e(sS)E iE iLE iLN iMN iME F	7 ^h 49 ^m 29 ^s 7 49 32 7 49 45 7 50.05 7 51 57 7 52 29 7 52 50 7 53 19 7 53 55 7 53 59 7 54 25 7 54 27 8 08 ±	Minor damage in the state of Washington. $\phi = 47^{\circ}7' N, \lambda = 123^{\circ}4' W$ $H = 7^h45^m50^s$ $h =$ about 50 km. by Brunner Depth Chart $\Delta_{meas} = 15^{\circ}5'$ $\Delta_{P-H} = 15^{\circ}5'$ $\Delta_{S-P} = 15^{\circ}7'$

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

5.

Altitude: 1655 Met.

Longitude: $104^{\circ}56'54''$ W. Latitude: $39^{\circ}40'38''$ N.

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
16	Sept. 8	ePE iPE iPN ipPN ipPE eeE eeE eeE eeE iSE esSE eEN eeE eLNE eME eMN F	12 ^h 13 ^m 44 ^s 12 13 48 12 13 49 12 13 57 12 13 58 12 14 25 12 14 50 12 15 12 12 20 41 12 20 47 12 21 01 12 21 25 12 22 25 12 29.4 12 32.8 12 33.4 13 59 ±	$\phi = 53^{\circ}7' N.$ $+\lambda = 175^{\circ}8' E.$ $H = 12^h05^m07^s$ $h = 50$ km by the Brunner Depth Chart $\Delta_{meas} = 48^{\circ}5$ $\Delta_{P-H} = 48^{\circ}5$ $\Delta_{S-P} = 45^{\circ}6$
17	Sept. 21	(e)N eN eN eL?N eN iN iNE iMNE F	21 ^h 30 ^m 23 ^s 21 31 36 21 32 22 21 33 42 21 33 56 21 34 21 21 34 25 21 34 38 21 50 ±	$\phi = 30^{\circ}0' N,$ $\lambda = 114^{\circ}0' W.$ $H = 21^h27^m31^s$ $\Delta_{meas} = 12^{\circ}5$
18	Sept. 25	eN eeE eNE eME eMN F	16 ^h 36 ^m 46 ^s 16 36 48 16 37 00 16 37.5 16 38.0 17 00 ±	
19	Nov. 13	ePE ipPNE iE isPNE eeE eSN e(ss)E iE iLE iLN iMN iME F	7 ^h 49 ^m 29 ^s 7 49 32 7 49 45 7 50 05 7 51 57 7 52 29 7 52 50 7 53 19 7 53 55 7 53 59 7 54 25 7 54 27 8 08 ±	Minor damage in the state of Washington. $\phi = 47^{\circ}7' N, \lambda = 123^{\circ}4' W$ $H = 7^h45^m50^s$ $h =$ about 50 km. by Brunner Depth Chart $\Delta_{meas} = 15^{\circ}5$ $\Delta_{P-H} = 15^{\circ}5$ $\Delta_{S-P} = 15^{\circ}7$

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

5.

Altitude: 1655 Met.

Longitude: $104^{\circ}56'54''$ W. Latitude: $39^{\circ}40'38''$ N.

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
16	Sept. 8	ePE iPE iPN ipPN ipPE eeE eeE eeE eeE iSE esSE eEN eeE eLNE eME eMN F	12 ^h 13 ^m 44 ^s 12 13 48 12 13 49 12 13 57 12 13 58 12 14 25 12 14 50 12 15 12 12 20 41 12 20 47 12 21 01 12 21 25 12 22 25 12 29.4 12 32.8 12 33.4 13 59 ±	$\phi = 53^{\circ}7' N.$ $+\lambda = 175^{\circ}8' E.$ $H = 12^h05^m07^s$ $h = 50$ km by the Brunner Depth Chart $\Delta_{meas} = 48^{\circ}5$ $\Delta_{P-H} = 48^{\circ}5$ $\Delta_{S-P} = 43^{\circ}6$
17	Sept. 21	(e)N eN eN eL?N eN iN iNE iMNE F	21 ^h 30 ^m 23 ^s 21 31 36 21 32 22 21 33 42 21 33 56 21 34 21 21 34 25 21 34 38 21 50 ±	$\phi = 30^{\circ}0' N,$ $\lambda = 114^{\circ}0' W.$ $H = 21^h27^m31^s$ $\Delta_{meas} = 12^{\circ}5$
18	Sept. 25	eN eeE eNE eME eMN F	16 ^h 36 ^m 46 ^s 16 36 48 16 37 00 16 37.5 16 38.0 17 00 ±	
19	Nov. 13	ePE ipPNE iE isPNE eeE eSN e(SS)E iE iLE iLN iMN iME F	7 ^h 49 ^m 29 ^s 7 49 32 7 49 45 7 50 05 7 51 57 7 52 29 7 52 50 7 53 19 7 53 55 7 53 59 7 54 25 7 54 27 8 08 ±	Minor damage in the state of Washington. $\phi = 47^{\circ}7' N, \lambda = 123^{\circ}4' W$ $H = 7^h45^m50^s$ $h =$ about 50 km. by Brunner Depth Chart $\Delta_{meas} = 15^{\circ}5$ $\Delta_{P-H} = 15^{\circ}5$ $\Delta_{S-P} = 15^{\circ}7$

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

5.

Altitude: 1655 Met.

Longitude: $104^{\circ}56'54''$ W. Latitude: $39^{\circ}40'38''$ N.

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
16	Sept. 8	ePE iPE iPN ipPN ipPE ee ee ee ee iSE esSE eEN ee eLNE eME eMN F	12 ^h 13 ^m 44 ^s 12 13 48 12 13 49 12 13 57 12 13 58 12 14 25 12 14 50 12 15 12 12 20 41 12 20 47 12 21 01 12 21 25 12 22 25 12 29.4 12 32.8 12 33.4 13 59 ±	$\phi = 53^{\circ}7' N.$ $+\lambda = 175^{\circ}8' E.$ $H = 12^h05^m07^s$ $h = 50$ km by the Brunner Depth Chart $\Delta_{meas} = 48^{\circ}5'$ $\Delta_{P-H} = 48^{\circ}5'$ $\Delta_{S-P} = 43^{\circ}6'$
17	Sept. 21	(e) _N eN eN eL?N eN iN iNE iMNE F	21 ^h 30 ^m 23 ^s 21 31 36 21 32 22 21 33 42 21 33 56 21 34 21 21 34 25 21 34 38 21 50 ±	$\phi = 30^{\circ}0' N,$ $\lambda = 114^{\circ}0' W.$ $H = 21^h27^m31^s$ $\Delta_{meas} = 12^{\circ}5'$
18	Sept. 25	eN ee eNE eME eMN F	16 ^h 36 ^m 46 ^s 16 36 48 16 37 00 16 37.5 16 38.0 17 00 ±	
19	Nov. 13	ePE ipPNE iE ispNE ee eSN e(ss)E iE iLE iLN iMN iME F	7 ^h 49 ^m 29 ^s 7 49 32 7 49 45 7 50 05 7 51 57 7 52 29 7 52 50 7 53 19 7 53 55 7 53 59 7 54 25 7 54 27 8 08 ±	Minor damage in the state of Washington. $\phi = 47^{\circ}7' N, \lambda = 123^{\circ}4' W$ $H = 7^h45^m50^s$ $h =$ about 50 km. by Brunner Depth Chart $\Delta_{meas} = 15^{\circ}5'$ $\Delta_{P-H} = 15^{\circ}5'$ $\Delta_{S-P} = 15^{\circ}7'$

D E N V E R

Station Bulletin for SEPTEMBER to DECEMBER, 1900

No.	Date	Phase	G.M.C.T.	Remarks
20	Nov. 23	iSE iE iN eNE iN F	15h20m04s 15 20 28 15 20 29 15 21 26 15 21 33 15 27 +	J.S.A. Epicenter: $\phi = 38^{\circ}13' N.$ $\lambda = 90^{\circ}4' W$ $H = 15h14m52.2s$ Felt in Missouri, Ill. and portions of sur- rounding states. $\Delta_{meas} = 11^{\circ}7$ $\Delta_{S-H} = 11^{\circ}7$
21	Dec. 4	eN iE eE eN F	23h56m56s 23 58 10 23 59 27 23 59 32 24 16 +	
22	Dec. 5	ePE iN epPN isPE eE eNE iN eSE iSN i(ss)E iN F	8h36m03s 8 36 08 8 36 18 8 36 34 8 36 10 8 40 26 8 40 38 8 40 48 8 40 56 8 41 26 8 41 47 9 14 +	$\phi = 13^{\circ}5 N.$ $\lambda = 90^{\circ}3 W.$ $H = 8h30m10s$ $h = 75$ km by the Brunner Depth Chart $\Delta_{meas} = 28^{\circ}5$ $\Delta_{P-H} = 28^{\circ}5$ $\Delta_{S-P} = 28^{\circ}1$
23	Dec. 21	ePE iE i(PR ₁)N iPR ₁ NE eE eSE eE eLE eEN F	21h01m40s 21 01 55 21 02 36 21 02 50 21 06 44 21 07 14 21 10 02 21 10.7 21 11.3 Lost in following earthquake.	$\phi = 9^{\circ}9 N.$ $\lambda = 84^{\circ}7 W.$ $H = 20h54m47s$ $\Delta_{meas} = 34^{\circ}7$ $\Delta_{S-P} = 34^{\circ}1$ $\Delta_{P-H} = 34^{\circ}7$
24	Dec. 21	(e)N iNE iE iP'E eE eE eN iPR ₁ E iPR ₁ N eN eE eN eE eN	21h18m14s 21 18 47 21 19 20 21 19 27 21 20 12 21 20 40 21 20 50 21 20 58 21 21 00 21 22 16 21 22 44 21 22 53 21 26 54 21 30 39	Beginning lost in preceding earthquake. Epicenter: Region 0° and $122^{\circ} E.$ $H = 21h00.5m$ $\Delta_{meas} = 122^{\circ}8$ $\Delta_{P'-H} = 122^{\circ}8$

D E N V E R

Station Bulletin for SEPTEMBER to DECEMBER

No.	Date	Phase	G.M.C.T.	Remarks
20	Nov. 23	iSE iE iN eNE iN F	15 ^h 20 ^m 04 ^s 15 20 28 15 20 29 15 21 26 15 21 33 15 27 ±	J.S.A. Epicenter: $\phi = 38^{\circ}13' N.$ $\lambda = 90^{\circ}4' W$ $H = 15^h14^m52.2^s$ Felt in Missouri, Ill. and portions of sur- rounding states. $\Delta_{meas} = 11^{\circ}7$ $\Delta_{S-H} = 11^{\circ}7$
21	Dec. 4	eN iE eE eN F	23 ^h 56 ^m 56 ^s 23 58 10 23 59 27 23 59 32 24 16 ±	
22	Dec. 5	ePE iN epPN isPE eE eNE iN eSE iSN i(sS)E iN F	8 ^h 36 ^m 03 ^s 8 36 08 8 36 18 8 36 34 8 38 10 8 40 26 8 40 38 8 40 48 8 40 56 8 41 26 8 41 47 9 14 ±	$\phi = 13^{\circ}5' N.$ $\lambda = 90^{\circ}2' W.$ $H = 8^h30^m10^s$ $h = 75$ km by the Brunner Depth Chart $\Delta_{meas} = 28^{\circ}5$ $\Delta_{P-H} = 28^{\circ}5$ $\Delta_{S-P} = 28^{\circ}1$
23	Dec. 21	ePE iE i(PR ₁)N iPR ₁ NE eE eSE eE eLE eEN F	21 ^h 01 ^m 40 ^s 21 01 55 21 02 36 21 02 50 21 03 44 21 07 14 21 10 02 21 10.7 21 11.3 Lost in following earthquake.	$\phi = 9^{\circ}9' N.$ $\lambda = 84^{\circ}7' W.$ $H = 20^h54^m47^s$ $\Delta_{meas} = 34^{\circ}7$ $\Delta_{S-P} = 34^{\circ}1$ $\Delta_{P-H} = 34^{\circ}7$
24	Dec. 21	(e)N iNE iE iP'E eE eE eN iPR ₁ E iPR ₁ N eN eE eN eE eN	21 ^h 18 ^m 14 ^s 21 18 47 21 19 20 21 19 27 21 20 12 21 20 40 21 20 50 21 20 58 21 21 00 21 22 16 21 22 44 21 22 53 21 26 54 21 30 39	Beginning lost in preceding earthquake. Epicenter: Region 0° and $122^{\circ} E.$ $H = 21^h00.5^m$ $\Delta_{meas} = 122^{\circ}8$ $\Delta_{P'-H} = 122^{\circ}8$

D E N V E R

Station Bulletin for SEPTEMBER to DECEMBER, 1900

No.	Date	Phase	G.M.C.T.	Remarks
20	Nov. 23	iSE iE iN eNE iN F	15h20m04s 15 20 28 15 20 29 15 21 26 15 21 33 15 27 +	J.S.A. Epicenter: $\phi = 38^{\circ}13' N.$ $\lambda = 90^{\circ}4' W$ $H = 15h14m52.2s$ Felt in Missouri, Ill. and portions of sur- rounding states. $\Delta_{meas} = 11^{\circ}7$ $\Delta_{S-H} = 11^{\circ}7$
21	Dec. 4	eN iE eE eN F	23h56m56s 23 58 10 23 59 27 23 59 32 24 16 +	
22	Dec. 5	ePE iN epPN isPE eE eNE iN eSE iSN i(sS)E iN F	8h36m03s 8 36 08 8 36 18 8 36 34 8 38 10 8 40 26 8 40 38 8 40 48 8 40 56 8 41 26 8 41 47 9 14 +	$\phi = 13^{\circ}5' N.$ $\lambda = 90^{\circ}2' W.$ $H = 8h30m10s$ $h = 75$ km by the Brunner Depth Chart $\Delta_{meas} = 28^{\circ}5$ $\Delta_{P-H} = 28^{\circ}5$ $\Delta_{S-P} = 28^{\circ}1$
23	Dec. 21	ePE iE i(PR ₁)N iPR ₁ NE eE eSE eE eLE eEN F	21h01m40s 21 01 55 21 02 36 21 02 50 21 06 44 21 07 14 21 10 02 21 10.7 21 11.3 Lost in following earthquake.	$\phi = 2^{\circ}9' N.$ $\lambda = 84^{\circ}7' W.$ $H = 20h54m47s$ $\Delta_{meas} = 34^{\circ}7$ $\Delta_{S-P} = 34^{\circ}1$ $\Delta_{P-H} = 34^{\circ}7$
24	Dec. 21	(e)N iNE iE iP'E eE eE eN iPR ₁ E iPR ₁ N eN eE eN eE eN	21h18m14s 21 18 47 21 19 20 21 19 27 21 20 12 21 20 40 21 20 50 21 20 58 21 21 00 21 22 16 21 22 44 21 23 53 21 26 54 21 30 39	Beginning lost in preceding earthquake. Epicenter: Region 0° and $122^{\circ} E.$ $H = 21h00.5m$ $\Delta_{meas} = 122^{\circ}8$ $\Delta_{P'-H} = 122^{\circ}8$

D. L. V. T. H.

Bole for 871228 to 871229, 1983

No.	Date	Phase	C.M.C.T.	Remarks
80	Nov. 23	18 13 11 10 9 8 7 6 5 4 3 2 1	18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04	U.S.A. Johnston: W = 38.12 N X = 80.12 W H = 18.12 S Felt in Johnston, III. and portions of sur- rounding states. A-mag = 1.7 A-H = 1.7
81	Dec. 4	18 13 11 10 9 8 7 6 5 4 3 2 1	18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04	
82	Dec. 8	18 13 11 10 9 8 7 6 5 4 3 2 1	18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04	W = 18.12 N X = 80.12 W H = 18.12 S Felt in Johnston, III. and portions of sur- rounding states. A-mag = 1.7 A-H = 1.7
83	Dec. 21	18 13 11 10 9 8 7 6 5 4 3 2 1	18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04	W = 18.12 N X = 80.12 W H = 18.12 S Felt in Johnston, III. and portions of sur- rounding states. A-mag = 1.7 A-H = 1.7
84	Dec. 21	18 13 11 10 9 8 7 6 5 4 3 2 1	18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04 18 30 04	W = 18.12 N X = 80.12 W H = 18.12 S Felt in Johnston, III. and portions of sur- rounding states. A-mag = 1.7 A-H = 1.7

D E N V E R

Station Bulletin for SEPTEMBER to DECEMBER, 1959

No.	Date	Phase	G.M.C.T.	Remarks
20	Nov. 23	iSE iE iN eNE iN F	15 ^h 20 ^m 04 ^s 15 20 28 15 20 29 15 21 26 15 21 33 15 27 +	J.S.A. Epicenter: $\phi = 38^{\circ}13' N.$ $\lambda = 90^{\circ}4' W$ $H = 15^h14^m52.2^s$ Felt in Missouri, Ill. and portions of sur- rounding states. $\Delta_{meas} = 11^{\circ}7$ $\Delta_{S-H} = 11^{\circ}7$
21	Dec. 4	eN iE eE eN F	23 ^h 56 ^m 56 ^s 23 58 10 23 59 27 23 59 32 24 16 +	
22	Dec. 5	ePE iN epPN isPE eE eNE iN eSE iSN i(ss)E iN F	8 ^h 36 ^m 03 ^s 8 36 08 8 36 18 8 36 34 8 38 10 8 40 26 8 40 38 8 40 48 8 40 56 8 41 26 8 41 47 9 14 +	$\phi = 13^{\circ}5 N.$ $\lambda = 90^{\circ}9 W.$ $H = 8^h30^m10^s$ $h = 75 \text{ km by the}$ Brunner Depth Chart $\Delta_{meas} = 28^{\circ}5$ $\Delta_{P-H} = 28^{\circ}5$ $\Delta_{S-P} = 28^{\circ}1$
23	Dec. 21	ePE iE i(PR ₁)N iPR ₁ NE eE eSE eE eLE eEN F	21 ^h 01 ^m 40 ^s 21 01 55 21 02 36 21 02 50 21 06 44 21 07 14 21 10 02 21 10.7 21 11.3 Lost in following earthquake.	$\phi = 9^{\circ}9 N.$ $\lambda = 84^{\circ}7 W.$ $H = 20^h54^m47^s$ $\Delta_{meas} = 34^{\circ}7$ $\Delta_{S-P} = 34^{\circ}1$ $\Delta_{P-H} = 34^{\circ}7$
24	Dec. 21	(e)N iNE iE iP'E eE eE eN iPR ₁ E iPR ₁ N eN eE eN eE eN	21 ^h 18 ^m 14 ^s 21 18 47 21 19 20 21 19 27 21 20 12 21 20 40 21 20 50 21 20 58 21 21 00 21 22 16 21 22 44 21 22 53 21 26 54 21 30 39	Beginning lost in preceding earthquake. Epicenter: Region 0° and $122^{\circ} E.$ $H = 21^h00.5^m$ $\Delta_{meas} = 122^{\circ}8$ $\Delta_{P'-H} = 122^{\circ}8$

D E N V E R



From the ISC collection scanned by SISMOS

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
24 (cont.)		iPSN iE iN eLE eME F	21 ^h 30 ^m 51 ^s 21 32 54 21 32 57 21 58.7 22 02.7 23 10 ±	
25	Dec. 22	e(P) _N eN eNE eE eN eLN eME eMNE F	4 ^h 50 ^m 25 ^s 4 50 40 4 51 46 4 53 18 4 56 05 4 59 02 5 05 40 5 08.7 5 29 ±	Aftershock of # 23? Epicenter: Region of Ø = 9°8 N, λ = 84°2 W. H = 4 ^h 44 ^m 02 ^s Δ _{meas} = 29°9
26	Dec. 22	iE F	5 ^h 55 ^m 00 ^s 6 04 ±	Local
27	Dec. 22	eN eE eE eN iE iME iMN F	7 ^h 04 ^m 40 ^s 7 04 56 7 05 04 7 05 08 7 05 14 7 05 25 7 05 28 Lost in following earthquake	
28	Dec. 22	ePE iE iN eSN F	7 ^h 29 ^m 00 ^s 7 29 20 7 29 30 7 29 46 7 39 ±	Local
29	Dec. 26- 27	ePR ₁ E eN eN eN eE eSKSE eN eN e(SKKS) _E iPSN e(L) _{NE} eN eMN eME F	24 ^h 14 ^m 27 ^s 24 14 31 24 18 27 24 19 23 24 20 46 24 21 06 24 21 15 24 21 25 24 21 54 24 23 05 24 34 43 24 39.7 24 44.5 24 45.7 25 29 ±	Destructive in Ana- tolia, Turkey. Epicenter after Strasbourg Ø = 39°5 N λ = 38°2 E. H = 23 ^h 57 ^m 22 ^s Δ _{meas} = 34°5 Δ _{PR₁-H} = 34°5

Minor Seismic Activity: Oct. 13, 16^h06^m to 16^h13^m; 17^h08^m to 17^h23^m
17^h53^m to 18^h05^m.

A. W. Forstell
Director

F. Robertson
Instructor

D E N V E R

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
24 (cont.)		iPS _N iE iN eLE eME F	21 ^h 30 ^m 51 ^s 21 32 54 21 32 57 21 58.7 22 02.7 23 10 ±	
25	Dec. 22	e(P) _N eN eNE eE eN eLN eME eMNE F	4 ^h 50 ^m 25 ^s 4 50 40 4 51 46 4 53 18 4 56 05 4 59 02 5 05 40 5 08.7 5 29 ±	Aftershock of # 23? Epicenter: Region of $\phi = 99.8$ N, $\lambda = 84.2$ W. $H = 4^h44^m02^s$ $\Delta_{\text{meas}} = 29.9$
26	Dec. 22	iE F	5 ^h 55 ^m 00 ^s 6 04 ±	Local
27	Dec. 22	eN eE eE eN iE iME iMN F	7 ^h 04 ^m 40 ^s 7 04 56 7 05 04 7 05 08 7 05 14 7 05 25 7 05 28	Lost in following earthquake
28	Dec. 22	ePE iE iN eSN F	7 ^h 29 ^m 00 ^s 7 29 20 7 29 30 7 29 46 7 39 ±	Local
29	Dec. 26- 27	ePR ₁ E eN eN eN eE eSKS _E eN eN e(SKKS) _E iPS _N e(L) _{NE} eN eMN eME F	24 ^h 14 ^m 27 ^s 24 14 31 24 18 27 24 19 23 24 20 46 24 21 06 24 21 15 24 21 25 24 21 54 24 23 05 24 34 43 24 39.7 24 44.5 24 45.7 25 29 ±	Destructive in Ana- tolia, Turkey. Epicenter after Strasbourg $\phi = 39.5$ N $\lambda = 38.2$ E. $H = 23^h57^m22^s$ $\Delta_{\text{meas}} = 24.5$ $\Delta_{\text{PR}_1-H} = 94.5$

Minor Seismic Activity: Oct. 13, 16^h06^m to 16^h13^m; 17^h08^m to 17^h23^m
 17^h53^m to 18^h05^m.
 A. W. Forstall
 Director

F. Robertson
 Instructor

D E N V E R

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
24 (cont.)		iPS _N iE iN eLE eME F	21 ^h 30 ^m 51 ^s 21 32 54 21 32 57 21 58.7 22 02.7 23 10 ±	
25	Dec. 22	e(P) _N eN eNE eE eN eLN eME eMNE F	4 ^h 50 ^m 25 ^s 4 50 40 4 51 46 4 53 18 4 56 05 4 59 02 5 05 40 5 08.7 5 29 ±	Aftershock of # 23? Epicenter: Region of Ø = 9°8 N, λ = 84°2 W. H = 4 ^h 44 ^m 02 ^s Δ _{meas} = 29°9
26	Dec. 22	iE F	5 ^h 55 ^m 00 ^s 6 04 ±	Local
27	Dec. 22	eN eE eE eN iE iME iMN F	7 ^h 04 ^m 40 ^s 7 04 56 7 05 04 7 05 08 7 05 14 7 05 25 7 05 28 Lost in following earthquake	
28	Dec. 22	ePE iE iN eSN F	7 ^h 29 ^m 00 ^s 7 29 20 7 29 30 7 29 46 7 39 ±	Local
29	Dec. 26- 27	ePR ₁ E eN eN eN eE eSKS _E eN eN e(SKKS) _E iPS _N e(L) _{NE} eN eMN eME F	24 ^h 14 ^m 37 ^s 24 14 31 24 18 27 24 19 23 24 20 46 24 21 06 24 21 15 24 21 25 24 21 54 24 23 05 24 34 43 24 39.7 24 44.5 24 45.7 25 29 ±	Destructive in Ana- tolia, Turkey. Epicenter after Strasbourg Ø = 39°5 N λ = 38°2 E. H = 23 ^h 57 ^m 22 ^s Δ _{meas} = 94°5 Δ _{PR₁-H} = 94°5

Minor Seismic Activity: Oct. 13, 16^h06^m to 16^h13^m; 17^h08^m to 17^h23^m
 17^h53^m to 18^h05^m.

A. W. Forstall
Director

F. Robertson
Instructor

D E N V E R



From the ISC collection scanned by SISMOS

Station Bulletin for SEPTEMBER to DECEMBER, 1939

No.	Date	Phase	G.M.C.T.	Remarks
24 (cont.)		iPS _N iE iN eLE eME F	21 ^h 30 ^m 51 ^s 21 32 54 21 32 57 21 58.7 22 02.7 23 10 ±	
25	Dec. 22	e(P) _N eN eNE eE eN eLN eME eMNE F	4 ^h 50 ^m 25 ^s 4 50 40 4 51 46 4 53 18 4 56 05 4 59 02 5 05 40 5 08.7 5 29 ±	Aftershock of # 23? Epicenter: Region of $\phi = 39^{\circ}8' N$, $\lambda = 84^{\circ}2' W$. $H = 4^h44^m02^s$ $\Delta_{\text{meas}} = 29^{\circ}9'$
26	Dec. 22	iE F	5 ^h 55 ^m 00 ^s 6 04 ±	Local
27	Dec. 22	eN eE eE eN iE iME iMN F	7 ^h 04 ^m 40 ^s 7 04 56 7 05 04 7 05 08 7 05 14 7 05 25 7 05 28	Lost in following earthquake
28	Dec. 22	eP _E iE iN eSN F	7 ^h 29 ^m 00 ^s 7 29 20 7 29 30 7 29 46 7 39 ±	Local
29	Dec. 26- 27	ePR _{1E} eN eN eN eE eSKS _E eN eN e(SKKS) _E iPS _N e(L) _{NE} eN eMN eME F	24 ^h 14 ^m 37 ^s 24 14 31 24 18 27 24 19 23 24 20 46 24 21 06 24 21 15 24 21 25 24 21 54 24 23 05 24 34 43 24 39.7 24 44.5 24 45.7 25 29 ±	Destructive in Ana- tolia, Turkey. Epicenter after Strasbourg $\phi = 39^{\circ}5' N$ $\lambda = 38^{\circ}2' E$. $H = 23^h57^m22^s$ $\Delta_{\text{meas}} = 24^{\circ}5'$ $\Delta_{PR_1-H} = 94^{\circ}5'$

Minor Seismic Activity: Oct. 13, 16^h06^m to 16^h13^m; 17^h08^m to 17^h23^m
17^h53^m to 18^h05^m.

A. W. Forstell
Director

F. Robertson
Instructor

DENVER

EARTHQUAKE STATION, REGIS COLLEGE, DENVER, COLORADO, U. S. A.

Wiechert 80 Kg. seismograph, Wiechert clock

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Bulletin, July-December, 1943

No.	Date	Phase	G.M.C.T.	Remarks
5	July 29	(e)E eN eE eSN eE eLN eME F	03 ^h 09 ^m 46 ^s 03 09 48 03 11 14 03 15 43 03 19 46 03 20.9 03 28.9 04 10 ±	Epicenter by J.S.A. $\phi = 19.1$ N. $= 67.1$ W. $H = 03^h02^m15^s$ $\Delta_{\text{meas}} = 38.5$ $\Delta S - H = 38.5$
6	Nov. 6	eN eP'E e(SKKS)N eE eN eLNE eMN eME F	08 50 04 08 50 16 08 58 00 09 00 00 09 00 04 09 26.0 09 34.0 09 35.0 10 00 ±	U.S.C. and G.S. gives $H = 08^h31^m6$ 5.5 S., 134°E. Banda Sea Δ_{meas} about 118°.
7	Nov. 26	(e)E eE eSKKS eSKKS eLNE eME eMN F	22 37 16 22 38 33 22 44 18 22 44 41 23 05.0 23 12.6 23 13.0 25 00 ±	U.S.C. and G.S. gives 41°N., 36°E. $H = 22^h20^m.7$ Δ_{meas} about 93°
8	Dec. 23	eL F	19 46 20 00	
9	Dec. 25	eN (e)N eE iN iE iN F	08 19 20 08 23 00 08 23 12 08 23 24 08 23 44 08 23 50 08 40 ±	

James B. Macelwane, S.J.
Director

Florence Robertson
Instructor