

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SEISMOLOGICAL FIELD SURVEY

75 APPRAISERS' BUILDING
SAN FRANCISCO, CALIF.

FILE NO.

G-7

February 24, 1939

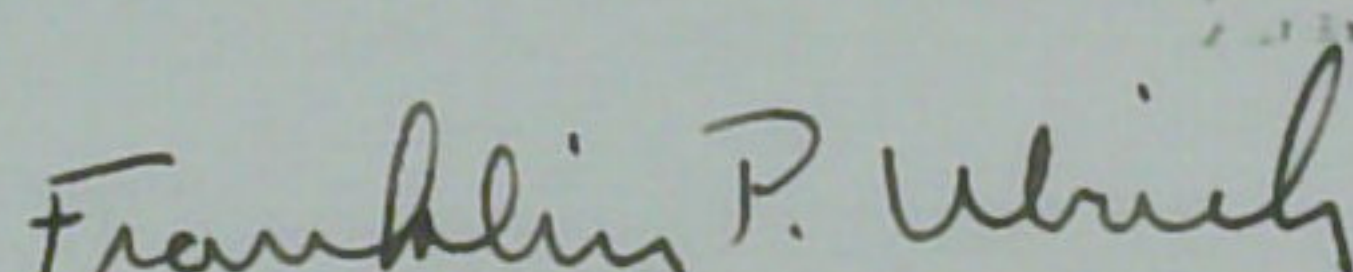
Professor Perry Byerly
University of California
Department of Geological Sciences
Seismograph Station
Berkeley, California

Dear Professor Byerly:

There are enclosed copies of our interpretations of earthquake reports from Salt Lake City under dates of February 3, 8, 1939, and January 20, 25, 30, 1939.

The original seismograms and reports were forwarded to the Washington office.

Respectfully yours,



Franklin P. Ulrich, Chief
Seismological Field Survey

FPU:P

Enclosure

Date
Jan. 20, 1939Station
Salt Lake City

GMT

Phase	N-S h. m. s.
R	20 44 57
:P	20 44 57
eS	50 18

Phase	E-W h. m. s.
R	? ?
P	20:44:57
eS	20:50:19

Remarks Parallax not known.

(Probably Alaska - Office file only)

Date
Jan. 25, 1939

Station

Salt Lake City

GMT

Phase	N-S h. m. s.
R	03:43:57
eP	44:46
i	45:23
eS	55:01
i	55:36
SR ₁	04:01:05
SR	04:43
F	06:30

Phase	E-W h. m. s.
R	03:44:30
eP	44:46
eS	55:00
iS	55:10
SR ₁	04:00:48
SR ₂	:04:36
L	04:08.0 -

Remarks

Great Chilean Earthquake

Date
Jan. 30, 1939Station
Salt Lake City

GMT

Phase	N-S h. m. s.
R	2 31 45
eP	2 32 15
e	43 15

Phase	E-W h. m. s.
R	2 31 38
eP	2 31 58
eS	42 12
F	5:00

Remarks

Date

Station

Phase	N-S h. m. s.

Phase	E-W h. m. s.

Remarks

Date
Feb. 3, 1939

Station
Salt Lake City

Phase	N-S h. m. s.
R	5 31 43
* eP?	5 31 53
e	5 43 53
eS	5 50 01
e	5 50 30
F	7 30

*Phases difficult to distinguish
from microseisms. The E-W read-
ing checks with U.S. C.&G.S. time.

Remarks South Seas Earthquake 37S
US C & G S 0 = 5 h 26m /
P-O(EW) = 13 m 06S
S(NS) - P(EW) = 10 m 19S

Date
Feb. 8, 1939

Station
Salt Lake City

Phase	N-S h. m. s.
R	5 39 32
eP	5 39 42
eS	5 50 30
e	6:46 -
F	7:30

Remarks
Surface waves of distant
earthquake. P & S indistinguish-
able from microseisms.

Date
Feb. 27, 1939

Station
Salt Lake City

Phase	N-S			Phase	E-W		
	h.	m.	s.		h.	m.	s.
R	00	29	47	R	00	29	56
eP	00	30	33	eP	00	30	36
eS	00	33	42	eS	00	33	44

Remarks

Franklin P. Urtel, Chief
Seismological Field Survey

Respectfully yours,

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SEISMOLOGICAL FIELD SURVEY
75 APPRAISERS' BUILDING
SAN FRANCISCO, CALIF.



FILE NO.

G-7

April 8, 1939

Professor Perry Byerly
University of California
Department of Geological Sciences
Seismograph Station
Berkeley, California

Dear Professor Byerly:

There is enclosed a copy of earthquake report of March 21, 1939, recorded at Salt Lake City.

Only one earthquake was recorded at Salt Lake City during the month of March. This, apparently, was a long distant shock and the phases were rather indistinct. However, I did manage to obtain about the same time on each component.

A copy of a letter addressed to Professor Schneider is enclosed.

Respectfully yours,

Franklin P. Ulrich

Franklin P. Ulrich, Chief
Seismological Field Survey

FPU:P

Enclosures

Copy for Dr. Byerly.



DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SEISMOLOGICAL FIELD SURVEY
15 APPOINTEE BUILDING
SAN FRANCISCO, CALIF.

G-7

April 8, 1939

Professor Hyrum Schneider
Department of Geology
University of Utah
Salt Lake City, Utah

Dear Professor Schneider:

In looking over your seismograms for March, it is noted that the driving clocks have again developed a rather irregular rate. It would be very desirable to keep the driving clocks regulated so that the drum makes exactly one turn per hour. Apparently, the adjustment of the driving clock is not simple. It is also possible that these clocks have passed their usefulness and should be replaced. This is a point which Mr. Nelson will, no doubt, discuss in his appraisal of the Salt Lake Station.

There is enclosed a copy of our interpretation of the earthquake of March 21. I am hoping that eventually Mr. Anderson will be able to work up these earthquake records at Salt Lake City.

Respectfully yours,

Franklin P. Ulrich, Chief
Seismological Field Survey

Enclosures
FPU:P

Date		Station	
March 21, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R.M.	1:33:43	R.M.	1:33:49
e	1:34:05	e	1:34:07
e	1:48:01	e	1:47:5
e	1:51:57	e	1:51:5
e	2:12:03	e	2:11:5
e	2:18:13	e	2:14:0
F	3:49 -	F	3:26 -
Remarks			
Phases very faint.			

Date
Apr. 5, 1939

Station
Salt Lake City

Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	17 04 45	R	17 04 49
		e?	17 04 41
e?	17 04 37	i?	17 05 00
e	17 06 43	i?	17 05 36
		i	17 06 46
Remainder		i	17 08 55
lost while		e	17 12 50
changing record		e	17 17 52
		L	17 27.5

Remarks

Changing records took
rather long. Important phases
lost in interim. Origin probably
in South Seas.

Date
Apr. 18, 1939

Station
Salt Lake City

Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	6:34:03	R	6:34:04
		e?	6:34:26
P	6:34:26	eP	6:34:43
iS	6:44:22	S	6:44:36
SR	6:49:33	SR	6:49:40
L	7:01.0	L	6:57.1
F	9:00		

Remarks

Date		Station	
April 30, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	03:08:43	No record.	
ip	03:09:15		
S	19:43		
L	34.7		
F	7:20		

Remarks

Heavy distant shock of long duration. Distance about 90° .

Date		Station	
May 1, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	6:09:43	R	6:09:43
e	6:10:17	e	6:10:17
iP	6:10:28	iP	6:10:28
S	6:20:10	S	20:10
F	7:30	F	7:30

Remarks

Weak distant shock.

Date		Station	
May 1, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	23:55:45	R	23:55:29
eP	23:56:04	eP	23:56:05
eS	23:58:23	eS	23:58:18
IS	23:58:33	iS	23:58:36
F	24:15	F	24:13

Date		Station	
May 2, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	13:16:47	R	13:17:31
iP	13:17:37	eP	13:17:41
1	13:17:56	1	13:17:56
iPR	13:18:28	1	13:18:26
L ₁	13:20:17	eS or L ₁	13:19:54
iL ₂	13:20:50	iL ₂	13:20:50
M or L ₃	13:21.4	M	13:21.3
F	15:20	F	15:20

Remarks

Felt in San Diego

Remarks Very heavy shock. Epicenter in Northern Mexico or Gulf of California. P_E, S_E and M_E indistinct. High speed surface waves and S seem to come in together.

*Refused
By...*



FORM 438A—EARTHQUAKE REPORT—INSTRUMENTAL

Date		Station	
May 6, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	06:05:37	R	06:03:34
e	06:05:41	eP	06:04:14
eS	06:14:43	e	06:05:40
L	06:22.7	eS	06:14:44
F	07:15		

Remarks Faint trace of distant earthquake. Epicenter in Pacific near Panama.

Date		Station	
May 8, 1939			
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	01:56:38	R	01:56:33
eP	01:56:48	e	01:56:49
iP	01:57:38	iP	01:57:38
		i	01:58:47
eS	02:06:12	eS	02:06:15
L	02:17.1	L	17.3
F	03:15	F	03:10.0

Remarks Epicenter in Atlantic near Azores.

Date		Station	
May 11, 1939		Salt Lake City	
Phase	N-S h. m. s.	Phase	E-W h. m. s.
R	18:06:32	R	18:06:35
eP	18:06:32	iP	18:06:32
iP	18:06:39	i	18:07:26
eS	18:07:33	iS	18:07:38
iS	18:07:39		
L	18:07:54	L	18:07:58
F	18:28	F	18:25

Remarks Felt in Southern Nevada. Epicenter near Tonopah.

Date		Station	
Phase	N-S h. m. s.	Phase	E-W h. m. s.

Remarks

Date 5/22/39			Station Salt Lake City				
Phase	N-S h. m. s.			Phase	E-W h. m. s.		
			e	2:23			

Remarks

Surface waves from a distant earthquake

Date			Station				
Phase	N-S h. m. s.			Phase	E-W h. m. s.		
			eP	02:55:27	R	02:55:03	
			eS	02:59:27	eP?	02:55:17	
			L	03:03:00	eS	02:59:27	
					L	03:03:00	

Remarks

P - phase indistinct.
Trace is weak.

Date 5/24/39			Station Salt Lake City				
Phase	N-S h. m. s.			Phase	E-W h. m. s.		
			e	20:16:40			

Remarks

Weak trace with surface waves.

Date 5/25-26/39			Station Salt Lake City				
Phase	N-S h. m. s.			Phase	E-W h. m. s.		
			M.S.T. 8:50:44				M.S.T.
Start			8:50:44	Start			13:17:45
Finish			8:53:30	Finish			13:18:46
Start			9:30:00	Start			13:28:27
Finish			9:32:30	Finish			13:29:30
				Start			13:37:25
				Finish			38:25
Start			9:45:10	Start			14:46:16
Finish			9:47:10	Finish			54:00

Remarks

Groups of high frequency vibration noted on this record, time of outstanding groups recorded above. Probably machinery operating nearby, or other local disturbances.

Date 5/26/39			Station Salt Lake City		
Phase	N-S h. m. s.		Phase	E-W h. m. s.	
R	18:15:00		R	18:15:00	
i	15:18		i	18:15:18	
L	39.0		L	39.0	
Remarks Record is largely of semi-soidal surface waves of a distant earthquake. Beginning and end lost in microseisms.					