

LAKE MEAD SEISMOLOGICAL STATIONS
INSTRUMENTAL REPORT
LOCAL EARTHQUAKES
January, February, March, 1948

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout January, February and March 1948.

In the following report symbol I represents shocks with small trace amplitudes. II represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

Beginning with this issue, the instrumental reports of the Lake Mead Stations will cover only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U.S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

No.	Date	G. C. T.	Location of Epicenters
1	1-8-48	17:23:01.4	10 miles SW of Hoover Dam
2	1-14-48	04:04:54.4	6 miles north of Hoover Dam
3	1-26-48	16:30:33.2	10 miles SW of Hoover Dam
4	1-29-48	10:40:38.7	8 miles SSE of Hoover Dam
5	2-3-48	11:25:45.1	7 miles SW of Hoover Dam
6	2-20-48	01:16:44.5	7 miles NW of Hoover Dam
7	2-20-48	19:40:43.9	6-1/2 miles NW of Hoover Dam
8	2-20-48	23:06:25.1	7 miles NW of Hoover Dam
9	2-21-48	02:43:32.0	8-1/2 miles NW of Hoover Dam
10	2-22-48	02:45:21.3	5.8 miles NW of Hoover Dam
11	- 3-1-48	01:30:03.3	9 miles WNW of Hoover Dam
12	3-20-48	01:17:13.3	13 miles NW of Hoover Dam
13	3-24-48	10:03:55.2	8 miles SW of Hoover Dam
14	3-24-48	20:53:39.2	11 miles north of Hoover Dam
15	3-24-48	21:01:44.7	11 miles north of Hoover Dam
16	3-24-48	21:44:13.0	6 miles north of Hoover Dam

The following shocks were reported felt in the Lake Mead Region: Roman numerals are intensity grades as estimated by the Modified Mercalli Scale of 1931. (Abridged)

No.	Date	G. C. T.	Intensity and Description
	1-9-48	06:10:44	III at Boulder City (Felt by few)
	2-1-48	06:49:58	III at Boulder City (Felt by few)
5	2-3-48	11:25:45.1	IV at Boulder City (Felt by several; rattled windows)
8	2-20-48	23:06:25.1	III at Boulder City (Felt by few)
	2-29-48	23:30:03	II at Boulder City (Felt by Observer)
13	3-24-48	10:03:55.2	III at Boulder City (Felt by few)

nternationa eismologica entre	Bureau BOIII	of Reclamand Coast		MONTH Time use	of January ed is	194 48
in:	BC	CITY	OVERTON		PIERCE FERRY	
bate.	Phase	e h m s Trace  Out 19 Trace Local - 5 mi	N Z Phase h Time  Provisional ep  lack of N -	Period Trace Amplitude T E N Z  Scenters due to Scontinued with	Phase h m s	Period Trace Amplitude T E N Z
70	-	Trace Local - 5 mi				
3	9	Traces Local - 5 mt				
4	-	O3 O4 Trace Local - 5 mi				
	~	Trace Local - 5 mi				
51					1 11 38 Trace Local	
					1P 11 40 57.5	
6					18 21 01 54.5 18 Trace Local	200 1
	1	Of 34 Trace Local - 10 mi				
	To to	17 23 01.4 - + 02.6	TOWNER NO. 1 Hoover	Dam of	eP 17 23 13.3 1(s) 50 mi 22.5	

LAKE MEAD SEISMOLOGICAL

STATIONS

MONTH

January

194 8

al al	ILAD SEISMOLOGICAL S	HINOW		3.
tion	and Coast and Geodetic Survey	Time us	sed is	
erna	R CITY	OVERTON	PIERCE FERRY	
Sei	se h Time	Phase h m s Period Trace Amplitude	h .	ude Z
4	54.4 56.6 9 mg		race - 41 mi	
		EPICENTER NO. 2 - 6 mi North of	T++ - 92B	
14	1 % 25 mi			
15	15 00 01 41.6 -10+20 +			
	- 926			
15	1 Trace - 8 mi			
15	1 Trace - 5 mi			
16	1 Prace - 5 mi			
16	1 Prace - 10 mi			
19	1 Trace - 5 mi			
23	1 Trace - 5 mi			
(3) 26	18 16 30 33.2 -30 +61 +102 18 II Local -6 mi SSH of Boulder	City MPICENTER NO. 3 - 10 mi SW	1(P) 16 30 45.0 18 Trace - 425 mi	
		of Hoover Dan		

MEAD

SEISMOLOGICAL

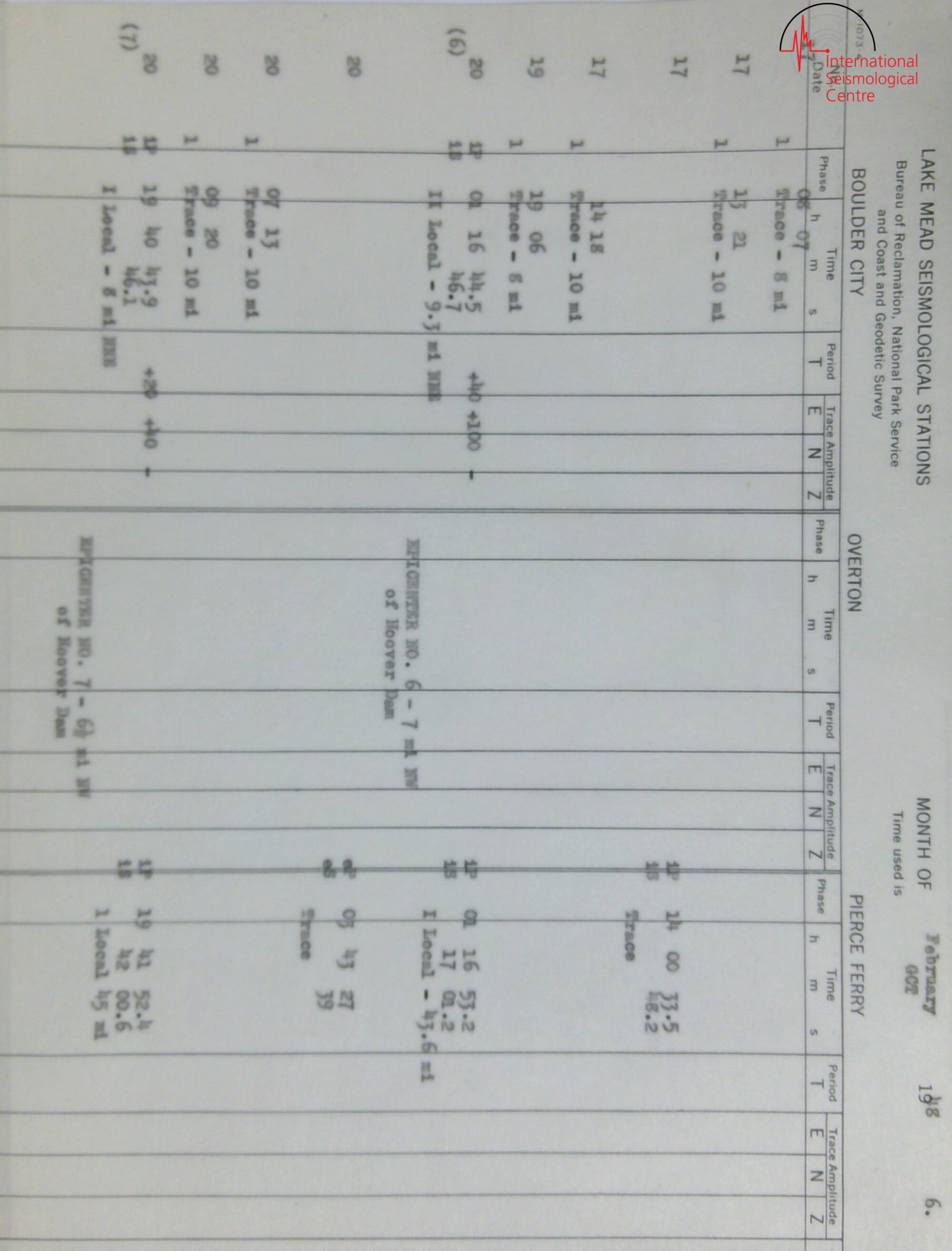
STATIONS

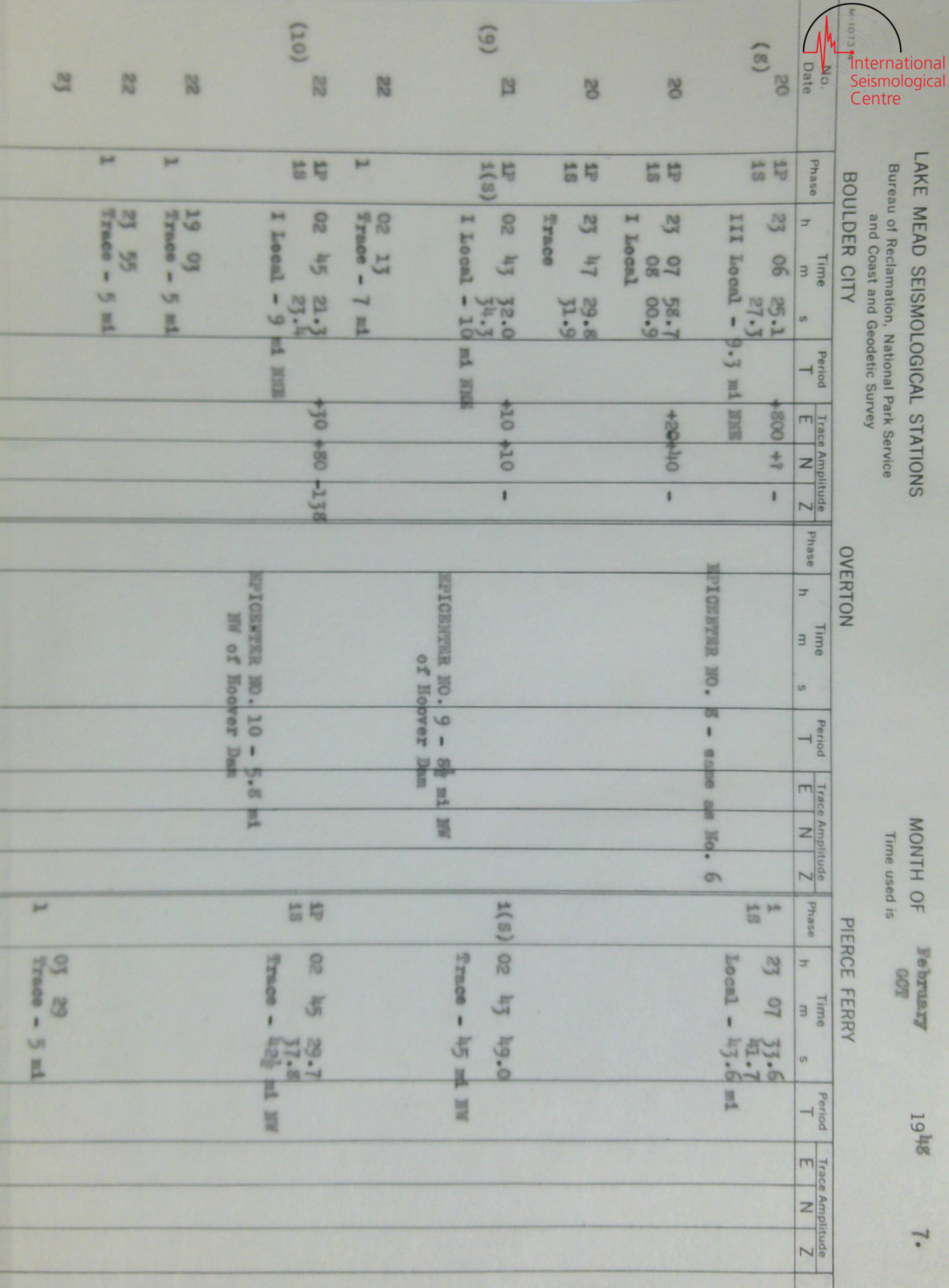
MONTH OF

194 8

10		February	32	29	29		(4)	29	27	26	26	26	No.	International Seismological Centre
- Just	20 PH		p-3	-	-		- Fr. 100 - Fr. 100	pud .		-	1-0	pad .	Phase	Bureau BOUL
08 38 Trace - 13 mi	06 48 58.7 I Local - 6-1/2		Trace - 5 mi	12 03 Trace - 8 mi	Trace - 10 mi		10 40 38.7 41.0	O2 15 Trace - 5 mi		Trace - 6 mi	Trace - 45 mi	Trace - 5 mi	Ъ	KE MEAD SEISMOLOGICAL  BURGAL OF Reclamation, National P  and Coast and Geodetic Sur  BOULDER CITY
	Hi.						+30							50
	-30						-12						Trace Amp	TATION
	+						,						litude Z	S
												,	Phase	OVE
						EPICE							7	RTON
						of F							Time	
						NO Te							S	
						neg L							Period	
						mi-							Trace	
						SISI							Amplit	MON
													ude Z	TH 0
							PA PE		-				Phase	PIE
							TO To		Prace				ь	FRCE
							to I		38-1				Time	FERRY
							54.4		5 p				S	Taur
							7 mi						Period	19
													F	400
													ce Amp	
													Z	+

DER CITY	OVERTON	PIFRCF	OF FEDDY		
011	041:::0:		CE LEKKI		
e Period	Phase h m s Period Trace Amplitude Z		Time m s	Period Trace Ampl	Z
77 25 45.1			1		
TH 7 - TROOM TT	MFIGHTER NO. 5 - 7 mi SW		1		
		-	122	F	
		-	17 25 Trace - 6 mi		
		<b>P</b>	O4 22 Trace - 9 mi		
of 48 Frace - 5 mi					
09 22 Prace - 5 mi					
		July .	05 28 22.5 Trace		
		ts to	20 18 34.3 I Local 36.1		
		-	23 41 Trace - 9 mi		
		-	02 41 Trace - 9 mi		
		1 to	03 16 46.3 Trace 48.0		
HO HO HO	Time Period Tr. 25 45.1 46.2 46.2 1 Local - 2 ml SSW race - 5 ml	Period Trace Amplitude  S T E N Z Phase h m S T E N  15-1 +75 + +738  Ccal - 2 mi SSV  EPIGENPER NO. 5 - 7 mi SV  Of Hoover Dam  - 5 mi	15.1   T   E   N   Z   Phase   N   m   S   T   E   N   Z   Phase   N   E   N	The control of the co	Trace - 128   Para   Para





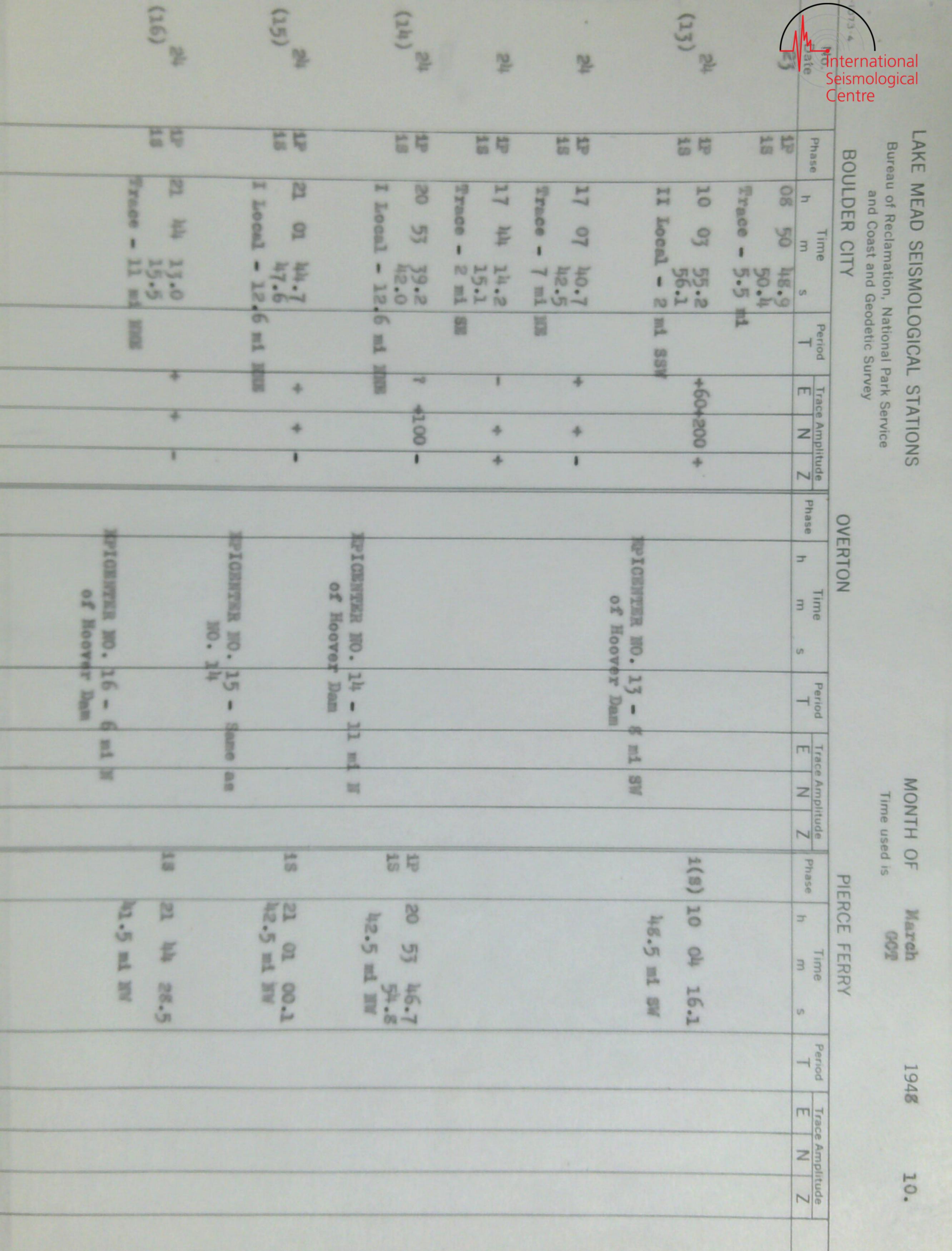
MEAD

SEISMOLOGICAL

STATIONS

March

rnational mological	LAKE N	MEAD SEI	MONTH (	ed is	March	194 8	9.
tern	BOL	_		PIEF	PIERCE FERRY		
Int	Phase	h	e s Period Trace Amplitude	Phase	h Time Per	Trace Amp	litude Z
4	•	42 36.5		15 15	18.6	-10 +10	•
					## CC - 20 mg		
**				118			
*	1 LP	27 14 07					
		Trace - 25 mt					
(12) 20	10 10 10 10 10 10 10 10 10 10 10 10 10 1	on 17 13.3 -1040 -			O1 17 34.6		
		Trace - 9.7 at MW	of Hoover Dan M		53.7 mi		
8	15 19	10 13 06.6			10 13 23.3		
					TH 6- 14-5 M		
		95 35.3			99 35 29.8		
		Truce - 16.5 at MV - Mar Les Veges					
		02 53 40.6			02 53 51.3	•	
12					03 37 27.6	•	





## LAKE MEAD SEISHOLOGICAL STATIONS INSTRUMENTAL REPORT LOCAL EARTHQUAKES April, May, June, 1948

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout April, May and June 1948.

In the following report symbol I represents shocks with small trace amplitudes. II represents a fairly well recorded shock. III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

This report covers only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U.S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

No.	Date	G. C. T.	Location of Epicenters
17	4-1-48	06:29:01.0	13 miles NNE of Hoover Dam
18	4-6-48	11:21:45.3	1 mile NE of Hoover Dam
19	4-6-48	19:05:29.3	92 miles NW of Hoover Dam
50	4-6-48	19:23:04.3	1 mile N of Hoover Dam
21	4-7-48	01:15:23.0	1 mile NE of Hoover Dam
22	4-9-48	18:30:34.9	8 miles SW of Hoover Dam
23	4-12-48	18:40:11.3	11 miles Sw of Hoover Dam
23	4-17-48	10:40:59.7	40 miles E of Hoover Dam
25	4-23-48	10:26:17.1	62 miles SE of Hoover Dam
26	4-23-48	10:47:06.7	Same as No. 25
27	4-24-48	18:40:38.8	9 miles SW of Hoover Dam
28	4-28-48	06:07:01.2	9 miles SW of Hoover Dam
29	5-2-48	18:39:38.0	10 miles SW of Moover Dam
30	5-3-48	02:05:49.0	6 miles N of Hoover Dam
31	5-3-48	10:32:25.5	32 miles SW of Heover Dam
32	5-3-48	14:41:05.8	10 miles SW of Hoover Dam
33	5-6-48	20:13:11.2	4 miles ME of Hoover Dam
33	5-7-48	08:18:49.1	9% miles SW of Hoover Dam
35	5-8-48	07:27:03.0	12 miles SSW of Hoover Dam
36	5-8-48	07:27:34.0	9 miles SSW of Hoover Dam
37	5-9-48	00:23:59.8	5 miles SE of Hoover Dam
38	5-9-48	19:23:59.4	9 miles SSW of Hoover Dam
39	5-13-48	03:21:48.6	95 miles SW of Hoover Dam
40	5-14-48	10:55:46.6	8g miles SW of Hoover Dam
41	5-16-48	17:22:48.2	10 miles SW of Hoover Dam
42	5-17-48	14:46:07.0	8 miles NW of Hoover Dam
43	5-22-48	08:19:10.5	6 miles W of Hoover Dam
44	5-31-48	07:37:21.7	9 miles SW of Hoover Dam
45	6-3-48	22:34:22.8	6 miles W of Hoover Dam
46	6-10-48	09:40:08.2	5 miles WNW of Hoover Dam



The following shocks were reported felt in the Lake Mead region: Roman numerals are intensity grades as estimated by the Modified Mercalli Scale of 1931.

(Abridged)

No.	Date	G. C. T.	Intensity and Description
	4-28-48	06:07:01.2	IV at Boulder City (Felt by several, rattled windows)
29	5-2-48	18:39:38	III at Boulder City (Felt by few)
31	5-3-48	10:32:25	IV at Boulder City (Felt by
	5-3-48	14:41:06	IV at Boulder City (Felt by several, rattled windows)
34	5-7-48	08:18:49	IV at Boulder City (Felt by
	5-8-48	07:27:34	IV at Boulder City (Felt by several, rattled windows)
37	5-9-48	00:23:59	IV at Boulder City (Felt by several, rattled windows)
	5-9-48	18:53:04	IV at Boulder City (Felt by several, rattled windows)
38	5-9-48	19:23:59	II at Boulder City (Felt by Observer)
40	5-14-48	10:55:46	III at Boulder City (Felt by few)
41	5-16-48	17:22:48	III at Boulder City (Felt by few)
43	5-22-48	08:19:10	I at Boulder City (Felt by very few under favorable circumstances)
-	6-9-48	13:24:34	III at Boulder City (Felt by few)

Confidential - not for publication

LAKE MEAD SEISMOLOGICAL

STATI

SNOI

MONTH

OF

April

1948

		2	(23)		(22)	8 - 9	(22)	Date No.	International Seismological Centre
			5 16	II II	to to	5	40 %	Phase	Bureau BOUL
			18 40 11.3 5.0 11 100al - 6	9 14 08.3 9-5 mi	18 30 34.9 1 Local - 3.5	Traces - 5 mi	1 Tocal - 64.7	ime m s	NEAD SEISMO of Reclamation, and Coast and G
				20	15. 15.		が開	Period	al P Sui
			T-1001	4	-90 +3		÷	Trace An	STATIC ark Service
			30 +	4	30 +2		3	nplitude Z	oe ons
								Phase	OVE
			TO REPRESENTABLE NO.		TOTAL NO.		TO RECEIPE NO	h Time	RTON
			Hoover 32		Hoover be		Hoover 1	Period	
			5 5		1000000000000000000000000000000000000		III III	Trace An	3
								n Z	ONTH Time us
10 kg	50 70 50 70	10 kg	100 Fg		20° 40°		15	Phase	PIE
97000 - 21 2000 -	01 58 58	Tacon I	16 Ho. 10		17 mi su 30		74 6.0h	h Time	PIERCE FERRY
35.55 5.75 5.75	57.4 59.0	30.6	25 17 18 10 10 10 10 10 10 10 10 10 10 10 10 10 1		35.55		# 39.4 5.4	S	
								Period	19
10	3	10						Trace	84
	0	10						Amplitu	
		30						Z	10

(26) 23	22 - 23		(24)		International Seismological Centre
55	5 6		(A) 0 (A)	15 (F)	Boul Phase
10 26 17.1 111 Local - 10 47 06.7 111 Local -	Traces, 49		To 40 59.7	10 42 12 13	MEAD SEISMO au of Reclamation, and Coast and G Time h m s
H SH SH	97 -3 2 2 3			6-2	National Pa eodetic Surv
19941	***		-0		STATIC rk Servic ey  Trace Am  N
* *					e plitude Z
No reaction of the contraction o			ED TOTAL		OVERTON Ti
THE NO. 100.			OF HOUVE		me s
26 - 30 mm - 3mm -			or ho r		Trac Trac
					MONTH ( Time use
				100 E00	OF Phase
10 10 10 26 2 10 10 17 1 10 10 17 2 2 2 2 2 2 2		8 mi mi 26 37 19 37 39	Toosi to	o tece	PIERCE FERRY Time
26.4		3131	\$ 20°0°0°0°0°0°0°0°0°0°0°0°0°0°0°0°0°0°0°	O B on	5
			100 m		19 48 Period
		*			Trace A
			70		mplitude Z

		8		(28)	77	3	(27)	Date	International Seismological Centre
- 54	15 to	10 10 10 10	ES SE	tig to	50 FG	202 PG	544 h	Phase	Bureau a
11 49 34.3 Trace - 11 m MM + + -	22 53 05.5 97 06.8 + + +	07 26 13.2 -10 -5 +	III Local - 4 mt SSW	06 07 01.2 + -220 -1	19 39 59.2 -10 +90 +	Trace - 25 m sm +	I Local - th at S	h Time Period	MEAD SEISMOLOGICAL STATIONS au of Reclamation, National Park Service and Coast and Geodetic Survey  ULDER CITY
			MS THE P. 28 - 9 M SW				EPICENTER NO. 27 - 9 mt SW	Phase h m s Period Trace Amplitude Z	OVERTON MONTH Time us
		15 07 26 18.8 26.8	46.5	15 06 07 12.5 21.8			18 mg mg 59.2	se h Time s	OF April 607 ed is
								Period Trace Amplitud	19 48
								Z	

							3			(27)3		*		July 1	3			(29)	Date.	Inte Seis Cei	ernation of the service of the servi	onal
	15 10		20 20	20	i to	20	i lit		*	The last	-	10 PU		200	0 to			ST P	Phase	ВО	Bureau	LAKE
Truce	00 02 03.5	III Local - 4.8 mt SSW	14 14 05.8 + +2 +2 +	Trace - 10 at (SW)	11 ht 29.0 + + +	Trace - 35 mt SE	10 42 26.5		III Local - 5.8 mt E	10 32 25.5	Trace - 2 mi SE	09 37 31-3		I Local - 10 mt ME	02 05 H9.0 -10 +10 -		I Local - h at WSW	18 39 38.0	e h Time s Period Trace Amplitude	JLDER CITY	eau of Reclamation, National Park Service and Coast and Geodetic Survey	E MEAD SEISMOLOGICAL STATIONS
		TPICKERS NO. 32 - 1						BPICHMENS NO. 31 - 3					STREETER NO. 30 - 6			To A TO THE MAN TO THE TANK TH			Phase h Time S Period	OVERTON		
		Do not like						Dean SW		de pale			Dan H	948		Dan Si			Frace Amplitude P		Time used is	MONTH OF
		193 ma	1P 14 17.1		e 11 41 42.9				48.5 mi	1P 10 32 36.7				A THE THE	er 02 05 56.9		51 mi Si	ep 18 39 49.9	Phase h Time s	PIERCE FERRY	is 00%	
															10				Period Trace Ar			19 48
																			mplitude N Z			5.

MEAD

SEISMOLOGICAL

STATIONS

MONTH

OF

GOT HAY

19 48

Time

used is

Bureau of Reclamation,

National Park Service

rnational nological tre	Bureau	of Reclamation, Nationand Coast and Geodetic	al Park Service Survey		MONIH OF Time used is		1940	
Date Seisi Cen	Phase	h Time	E N Z Phase	h Time Period	Trace Amplitude Phase	h Time	Period Trace Amp	olitude Z
10	6	1	*					
	11 (S)	18 53 03.7 11.5	(Traces fade out	ion) Sidentifiable	200	18 53 15.0		
(38)	10 to	19 23 59.4 1 Local - 35 mi s	-60 +200 +	EPICENTER NO. 38 -	o management of the state of th	19 mi sw 11.0		
	10 to	97 45 34.0 35.0 888	-20 +100 +					
10	10 kg	12 29 06.4 07.8 1 Local - 5 mi SSE	-20 +130 +					
12 - 13	6	Traces - 5 mi						
2	10 17	20 34 23.0 24.0 24.0 33 mi 83	-20 +130 +					
(39)	100 PM	03 21 48.6 11 Local - 56 mi s	-80 +150 +	EPICERRE NO. 39 -	99- mt ss	485 Mg 22 00.1 0.6 0.6		
(00)	1.5	10 55 46.6 47.8 1 Local - 38 mi sw	90 +110 +	FIGURER NO. 40 - 1 Hoove	Dan Si	10 55 57.9 149% mi sw		

MEAD

SEISMOLOGICAL

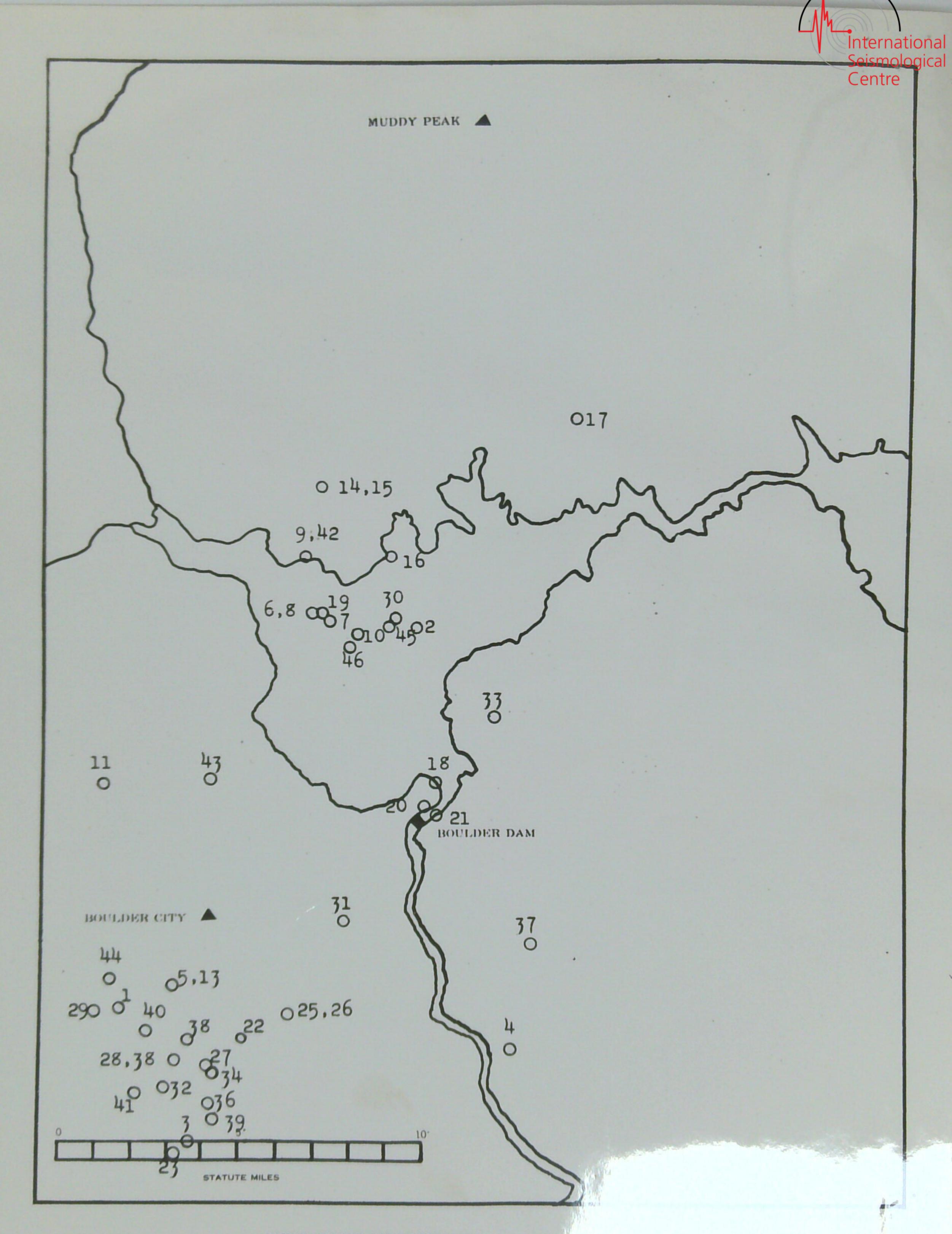
STATIONS

MONTH OF Time used is

1948

ational ological e	LAKE N Bureau	MEAD SEISMOLOGICAL STATIONS  Pau of Reclamation, National Park Service  and Coast and Geodetic Survey	MONTH Time u	H OF	May 19 hg	
ntern	BOL	JLDER CITY	/ERTON	PIE	PIERCE FERRY	
Date	Phase	h Time	h Time S Period Trace Amplitude	Phase	h Time Period Trace An	mplitude V Z
(41)	100 Hz	17 22 48.2 11 Local - 5.3 mt SSW + +		25	7 22 59.5	
			MPICHNER NO. 41 - 10 M1 SW			
17	es Ho	02 21 54.2				
	- 1	I Local - 23 mi sm				
(42)	20 PG	14 46 07.0		0.0	14 46 15.4	
		Jul 1	TOTOMINE NO. 142 MAN NO. 142 M	\$46 (3)	14 mt Mw 23.5	
			0.45			
29				the big	06 26 59.8 + +	*
					Trace - 4 mi SW	
29				07 PU	06 31 32.0	
					As to - dough	
(143) 22	10 10 10 10 10 10 10 10 10 10 10 10 10 1	08 19 10.5		# 10 2 10	08 19 21.4	
		II Local - 4 mi m	WPI OMERE NO. 43 - 6 mi W		To the Total	
			MW ZBAOOR TO			
				15.75	12.0	*
24	10	100			I Local - 10 mi su	
	200	Truce - 6 mi SS				

national nological tre	Bureau BOIII	MEAD SEISMOLOGICAL STATIONS  eau of Reclamation, National Park Service and Coast and Geodetic Survey  NIII DEP CITY		MONTH Time us	OF sed is	100	19 48		9
Inte Seis Cer	Phase	Time Period	Time	Period Trace Amplitude	716	Time I P	eriod Trac	e Amplit	ide
Date	- III	h m s T E N	Phase h m s	T E N Z	Phase	S	T E	Z	Z
					150	21.5	4	*	*
30-31	4	Traces - 5 m							
(44)	0 to 10	07 37 21.7			Pr 00	07 37 33.8			
	-	II Local - 3mi Sw	EPICHNESS No. 1	The state of the s		52 mi sw			
June			Acous so	er Dan					
					10 Pg	0 <sup>1</sup> 2 <sup>1</sup> 59.5			
	P.P	27 10 17 10 4							
	\$45 (0)	Trace - 38.5							
(45)	10	22 34 22.8 +60 +90 -			100 FE	22 34 29.5			
		I Local - 9.5 mt MS	AND TORRESSEE NO. 1	er Jan 6 mi		41.5 mt M			
	节	II Local - Trace Fades Out			村	13 24 43.0 TI Local - Tra	ce fades	out	
(94)	15 10	9 40 08.2			t till to	09 40 17.0 25.5			
		7 race - 8 m. 100	A POR TO TAKE TO THE PARTIES OF THE	7 6 3 mm MMM					





## LAKE MEAD SEISHOLOGICAL STATIONS INSTRUMENTAL REFORT LOCAL EARTHQUAKES July, August, September, 1948

The stations at Boulder City and Pierce Ferry operated on a routine schedule throughout July. August and September, 1948.

In the following report symbol I represents shocks with small trace amplitudes, III represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

This report covers only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U.S. Coast and Geodetic Survey; which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

No.	Date	G. C. T.	Location of Epicenters
47 48 49 51 53	7-6-48 7-6-48 7-20-48 9-5-48 9-21-48 9-27-48	13:31:14.0 13:26:31.3 06:41:55.9 21:16:38.2 19:20:50.0 19:40:44.7 17:53:46.4	Same as No. 47 6 miles SW of Hoover Dam 6 miles SW of Hoover Dam 12 miles SW of Hoover Dam 10 miles SW of Hoover Dam 10 miles SW of Hoover Dam 12 miles SW of Hoover Dam

The following shocks were reported felt in the Lake Mead region; Roman numerals are intensity grades as estimated by the Modified Mercalli Scale of 1931 (Abridged)

No.	Date	G. C. T.	Intensity and Description
47	7-6-48	13:21	IV at Boulder City (Felt by
	7-6-48	13:25	IV at Boulder City (Felt by
	7-20-48	06:42:56	II at Boulder City (Felt by
	9-1-48	05:42:17	Observer) IV at Boulder City (Felt by
50	9-5-48	21:16:38	Observer) III at Boulder City (Felt by few)

nternational eismological entre	LAKE	MEAD SEISMO au of Reclamation, and Coast and Ge	n, National F Geodetic Su	AL STAT	TION	S	OVERTON MONTH O Time used	F July is PIFRCE FERRY	19 1			
2 2	Phase	h	Period	Trace	Ampli	tude Z	hase h m s Period Trace Amplitude		Period T	race Am	plitude Z	
	\$12 \$15 Free Prop.	12 32 29.6 Trace - 4 mi										
647	10 Fg	Faded Out 14.0	mil S	***	*	4	of Hoover Dam SW	15 13 21 30.1 18 22 39.5 50 mi sw		•		
(34)	For Par	Faded Out - 5	10.4 50.0	4.	***	4		15 13 26 42.5 18 50 mt 88 51.9		•	•	
7 - 8	#	Traces - 5 mi					No. 47 - 58 as					
								15 19 25.8 Trace - 9 mi				
19								15 16 02 52.5 Trace 03 00.0				
(99)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	06 41 55.9 56.8	m1 31	1	4	*	SPICEPER NO. No. 6 mt SN	15 06 42 07.0 46 mt Sw 15.9				
8	55	09 10 25.3 26.5 3 mi		•	*	*						

ial cal	LAKE MEAD SEISMOLOGICAL	L STATIONS	MONTH OF July a August 1	19 40
ation ologic	Bureau of Reclamation, National	al Park Service	Time used is	
tern eismo	R CITY	OVERTON	PIERCE FERRY	
Date	Phase h Time s Period	E N Z Phase h Time s	Period Trace Amplitude Phase h Time S Ferion Time S T	F R Z
	06 12.5			
	Trace -			
genzery				
5	12 oh 43 13.0			
	Trace -			
6			12 11 09 11 mg	time correction
24	12 06 50.5 Trace 07 02.0		- 12 00 - 12 00	TOTAL SET AND SETA
13	18 17 29 53.6			
			17 17 10	time correction
			Local	
18 - 19	S Traces - 5 mi			
23	Heavy microseisms		1P 17 01 no	ni de correction
	15 19 05.7 Trace - 25 m			
30	12 08 33.9 1 Loon 35.3			

LAKE MEAD SEISMOLOGICAL STATIONS

MONTH OF July & August

MEAD

SEISMOLOGICAL

STAT

SNOL

MONTH

national nological re	LAKE N Bureau	of Reclamation, Nation	S			MONTH OF Time used is		September	19	- P. C.	
Inter Seisn Cent	BOUL	O	0	VERTON			PIERCE	RCE FERRY			
No. Date	Phase	h Time S Period Trace Amplit	Z Phas	e h Time	Period Trac	e Amplitude N Z	Phase	h Time	Period	Trace An	nplitude V Z
15	ST ST	12 28.3									
		THE A.T . DOMET									
16		Heavy microseisms - no rec	To bro	shock			of the	03 29 23.5		-60 +11	90 +
							400	Mg Tu th			
16	170	19 20 50.0 +45 +28	+				2 6	19 21 02.0			
		MS Tu to 9 - Tool II		RPICERFER NO.	51 - 12 m	12. 100		53½ mi sw			
19	ts to	02 18 06.1 Trace - 20 Mi									
20							Dis Pot	1 Local - 5	III III	+10-1	*
(58)	100 Mg	19 40 44.7 +15+110 1 Local - 13 mi MB +15+110		TO THE MENT NO.	Hoover 104		50 FB	19 MW MM 61.6 01.05 Out 01.6			
2	15 10 10 10	9 02 42.7 9 13.8									
	15 10	17 34 57.5 58.5 58.5									
							14 M	10 40 58 41 07	58.0		

(53)	Mo.S	nternational eismological entre
15 15	Phase	Bureau BOUL
00 55 03 09 Trace 06 20 47.0 Trace - 2½ m 17 53 46.4 11 Local - 2 11 - 2	Time	of Reclamation, and Coast and G
	Period	
***	Trace A	L STAT Park Sen urvey
\$ **	mplitude	IONS /ice
	Phase	9
THE COLUMN TO SERVICE STATES OF THE COLUMN TWO SERVICES OF THE COLUMN TWO S	Tin	/ERTON
R NO.		
53 - foover	Period	
Dan 1	Trace	
	Amplitude N 7	MONTH Time us
	Phase	OF ed is
	h T	PIERCE FERRY
77.6 6.6 9.6		RY
	Period	19
	Trac	84.
	e Amplitu	
	ude 7	51



## LAKE MEAD SEISMOLOGICAL STATIONS INSTRUMENTAL REPORT LOCAL EARTHQUAKES October, November, December, 1948.

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout October, November and December, 1948.

In the following report symbol I represents shocks with small trace amplitudes. II represents a fairly well recorded shock, III represents large trace amplitudes. Barely recorded shocks are marked "Trace". Local shocks are less than 70 miles from the station.

This report covers only such earthquakes that are of local interest; namely the listing and location when possible of all local shocks. Data on distant earthquakes and on regional shocks will be included in the Bulletins of the U. S. Coast and Geodetic Survey, which are issued quarterly.

Epicenters were located in the Lake Mead region as follows:

No.	Date	G. C. T.	Location of Epicenters
54 556 57 58 58 59 60 61 62 63 64 65 66 66 67 68 69 70 71	10-11-48 10-24-48 10-31-48 11-2-48 11-2-48 11-2-48 11-2-48 11-2-48 11-3-48 11-5-48 11-7-48 11-7-48 11-9-48 11-14-48 11-16-48 11-21-48 11-21-48 11-22-48	01:12:01.0 22:06:37.3 23:37:10.3 22:26:39.8 17:58:34.3 16:48:09.0 18:15:23.1 21:04:25.3 23:47:25.4 12:08:25.5 23:33:07.8 02:58:30.6 00:06:31.5 02:54:59.4 21:54:44.4 01:05:55.5 00:37:05.2 16:05:18.3 20:43:55.3	2½ miles SE of Hoover Dam 5½ miles NNW of Hoover Dam 7 miles N of Hoover Dam 7 miles W of Hoover Dam 3½ miles SW of Hoover Dam Same as No. 58 II miles SW of Hoover Dam Same as No. 58 7 miles SW of Hoover Dam Same as No. 58 7 miles SW of Hoover Dam Same as No. 58 7 miles SW of Hoover Dam Same as No. 58 7 miles SW of Hoover Dam 3½ miles SW of Hoover Dam 3½ miles SW of Hoover Dam 5 miles SW of Hoover Dam 5 miles SW of Hoover Dam

The following shocks were reported felt in the Lake Mead region: Roman numerals are intensity grades as estimated by the Modified Mercalli Scale of 1931. (Abridged)



No.	Date	G. C. T.	Intensity and Description
55	10-24-48	22:06:37	II at Boulder City (Felt by Observer)
	10-25-48	15:56:29	II at Boulder City (Felt by Observer)
58(a)	11-2-48	16:48:08	VI at Boulder City (Felt by all, many frightened; cracked plaster)
58	11-2-48	17:58:34	IV at Boulder City (Felt by several, rattled windows)
59	11-2-48	18:15:23	IV at Boulder City (Felt by several, rattled windows)
61 62	11-2-48	23:47:25 12:08:55	III at Boulder City (Felt by few) IV at Boulder City (Felt by
63	11-5-48	23:32:38	II at Boulder City (Felt by Observer)
65	11-9-48	00:06:31	II at Boulder City (Felt by Observer)
69	11-22-48	00:37:06	II at Boulder City (Felt by Observer)
71	12-12-48	20:44:55	II at Boulder City (Felt by Observer)

Confidential - not for publication

25	22	2	22	1	(44)	10 - 11	02	02		No. Bate	International Seismological Centre
		15 FP	15 P	ts tp	is to	6		St La	Pr. Fr	Phase	Bureau BOUL
Trace - 5 mi		12 45 47 48 18 1 SE	93 23 22 Trace - 25 mi	02 58 51.0 Trace - 22 mi SW	01 12 01.0 03.0 1 Local - 8.2 mi ME	Traces - 5 mi		18 26 37.5 Trace - 28.5 +	Trace - 32 mi SW +15	h Time	of Reclamation, National Park and Coast and Geodetic Survey DER CITY
		+		+	10			-3	±16		TATIOI Service
		+		+	+			~	+	Z	S
					EFICENTER NO.					Phase h Time s	OVERTON
					Ver Dan Si					Period Trace Amplitude T E N Z	MONTH Time use
	3				Es Fe		t's to		e(S)	Phase	OF od is
97 16 92 46 9race - 5 mi	Traces - 5 mi				39 mi sw + .		21 47 28.0 Trace - 55.5 mi +		) 19 hz 24.6	h Time S Period Trace /	October GCT 1948
					*		~			Amplitude N Z	

	25	25	25	25	(56)	(55)	2	4	Date C	ternational
13	P ES	1P	15 P	ti si	to to	ti fi			Phase	Bureau 8
8	Tr. MS Jun	15 56 39.8 mx +20+50 +	5 21 08.4	93 17 19.1 Trace - 9 mi NE + + -	23 37 10.3 11.7 11.7 mi mm +75 +100 -	22 06 37.3 38.5 II Local - 3.5 mi MME +75 +130 -	20 43 21 35 Trace - 5 mi	80	h m s Period Trace Amplitude Pha	of Reclamation, Nand Coast and George
					EPICENTER NO. 56 - 5\frac{1}{2} mi NV	EPICHNTER NO. 55 - 5½ mi NNW			ase h m s Period Trace Amplitude Z	MONTH Time use
					e(P) 23 37 21.5 18 46 mi W 30.5	12 22 06 48.2 13 47 mi W 57.0	Trace - 5 mi		Phase h Time s Per	of october gor ed is
									eriod Trace Amplitude T E N Z	1948
										2

MEAD

SEISMOLOGICAL STATIONS

MONTH OF

October

1948

(58)	N N	Movember	31	28	Date C	ternational eismological entre
Ti F	To to	Es P		50 FG	1P 18	Bureau BOUI
17 58 34.3 11 Local - 35.5	06 14 52 Trace - 22 mi Trace - 22 mi	22 26 39.8 1 Local - 11 mi	00 32 Trace - 5 mi	23 28 19.0 Trace - 8 mi	Trace - 58 m	MEAD SEISMOI au of Reclamation, and Coast and Ge ULDER CITY
mi im		THE NAME OF THE PARTY OF THE PA			Period	SaA
#70 ±	~> ~>	+10+			Trace A	L STATI Park Serv urvey
9	•	30 -			N Z	ONS
MPICENTER NO. 58 - 38 mi W		EPICENTER NO. 57 - 7 mi No of Hoover Dam			Phase h m s Period Trace Amplit	OVERTON
15 17 58 th.6 53.5	og 18	is 40 mi MW 55.3	is 03 08 09.5		Time Period Trace Ampl	TH OF October and 19 48 e used is GGT November  PIERCE FERRY
					Z	3.

(58) (a)	Date C	ternational eismological entre
1(s)	Phase	Bureau BOUL
16 48 09.	h m s	of Reclamation and Coast and DER CITY
NO MI H	Period	GICAL ional P etic Sur
~	E N	Park Service urvey
	Z Phase	OVE
EPICENTER NO SW of	h Time	RTON
Hoover I	Period	
0am 3½ mi	F N Z	MONTH Time us
THE P	Phase	OF Nove
16 48 19.2 叶岩 mi WSW 27.7	h Time	lovember GGT CE FERRY
	Period T	19 48
+	Frace Amplitu	3
+	Z	(a)

	LAKE	MEAD SEISMOLOGICAL STATIONS	MONT	H OF	November 19 48 4	•
tiona ogica	Bureau	and Coast and Geodetic Survey	Time	used is	COT	
rnat	BOU	LDER CITY	DVERTON	PIE	Y	
Inte Seis Cer	Phase	h Time S Period Trace Amplitude Pha	se h m s Period Trace Amplitu	Z Phase	h Time s Period Trace Amplitud	Z
4	5	T T				
(50)	4 4	18 15 23.1 +70 +200 -		to to	18 15 33.6	
1001	10	II Local - 35 mi NE		**		
			EPICENTER NO. 59 - Same as			
3	7 10	21 04 25.3 +70 +7		e(P)	21 OH 36.0	
		Trace - 38 mi NE	EPICENTER NO. 60 - Same as		m gan	
(61)	F F	23 47 25.4 +70 +150 +8		ti ti	23 47 34.3	
		I Local - 3% mi NE	EPICENTER NO. 61 - Same as		1 1 1 1 1	
3 - 4	#	Traces - 5 mi				
3				Fr. Ho	21 ho #3.5	
					Trace - 1 mi	
	ts tp	1 Local 57.4 +70 +120 -				
(69)	1º	12 08 25.5 Trace fades out +? +? -?		is in	12 09 36.0	
		III Local - 3g mi ME	MPICHNTER NO. 62 - Same as		43 mt W	
4-5	7	Traces - 5 mi				

	10	9	(65)	02		(44)	1	6-7	(63)	6 - 6	No. Date	ternateismolo	ional ogical
	is to		is ip	to to		is i	† D	3	tis ti	6	Phase	BOUL	LAKE N
	17 59 16.0 Trace - 25 mi	Trace	00 06 31.5 I Local - 3 mi NE	10 48 45.0 16.0 1 Local - 22 mi N	18 35 Trace	I Local - 5 mi SW	NA NA	Traces - 5 mi	23 33 07.8 09.0 II Local - 3½ mi M	aces - 5	e	DER CITY	IEAD SE
			+20	~ 1		4	+		+7		Trace E	ırvey	L STAT Park Ser
			+70	1			1		+		e Amplit		TIONS
			1	+		-	+		ı		Z		S
											hase	OVE	
			EPICENTER NO.			HPICENTER NO			EPICENTER NO.		h Time	RTON	
			58			oover			583.		Period		
			Same			Dam 11			Sam		Trac		
			20 53			mi Sw			9,59		e Amplitude N Z		MONTH Time us
ts to			is to			S. F.	ti		1 to 1	t d	Phase	PIE	OF ed is
21 22 H1.5 H7.0 1 Local - 34			43 mt m 20.5 00 06 41.5			Ħ	02 58 42.5	19 55) ± 20 Trace	43 mi W 27	77	h Time	PIERCE FERRY	November GCT
E.								P.			Period Trace Ar		19 48
											N Z		5.

MONTH OF Time used is

November

19 48

	LAKE	7	S				MONTH	1 OF	November	19 48	6
ional	Bureau	and Coast and Geodetic Survey					Time u	ised is	GCT		
rnat molc tre	BOL	JLDER CITY		OVERTON				PIE	PIERCE FERRY		
Seisi Cen	Phase	h Time	tude Z	Phase h Time s	Period	Trace	N N	Phase	Time m s	Period Trace Am  T E N	plitude Z
46634	t's	02 54 59.4						in Co	2 55 00		
				EPICENTER NO.	66 -	7 mi Dam	MS	4.4	46.5 mt SW To.0		
16									02 17 Trace - 5 mi		
(67)	ti ti	21 54 45.6						iP			
		B		EPICENTER NO.	58 -	Same	20 00	(0)	43 mi m 3.0		
16-17	5	Traces - 5 mi									
17								TP TP	16 33 20	7 7	
								To	Trace - 55 mi		
(68)	tis tip	01 05 55.5 - +80	1					eg-	0.00 00 TO		
		I Local - 5% mi MW		EPICENTER NO.	ver D	in i	MM		47 mi W		
20 - 21	13	Traces - 5 mi						4	Traces - 40 mi		
22	ts to	06 39 11.0 1 Local 12.0 +30 +60	1								
(69)	15 IP	00 37 05.2 +100+90						15 tp	37		
		TROOM		EFICHMENT NO. Of Hoo	ver D	10000	=		W Fur Gh		

Premational Seismological Centre	Bureau  Phase  Phase	BOULDER CITY  Traces - 5 ml  Traces - 5 ml	OVERTON  Time u  Time u  Time u  Trace Amplitude Trace Amplitude Trace Amplitude Trace Amplitude	November a GOT OFFERF FERF Time se h m OFFERF Time offer 1 Local 08 16
(70) December	to to	16 05 18.3 +170-? - 19.5 mi ESE	EPICENTER NO. 70 - 3½ mi Sw	S. S
	is it	20 05 21.5 -100-200 + II Local - 9 mi NNE 100-200 +		Not Recording
200	ts ts	05 13 29.7 I Local - 5 mi SW		23 51 Trace - 20 mi
72)2	5 17	20 43 55.3 +20 -40 +  I Local - 63 mi ms +20 +	EFICENTER NO. 71 - 5 mi NV of Hoover Dan	15 H W 14.02.1

1-1

										1075 M-1075	
	25	42	23	22 - 23	22	2	22	2	The Seis	erna smol ntre	tional ogical
	ts to		is it	4					Phase	80	Bure
Trace	5	Trace	06 06 13.4 I - II Local - 3 n	Traces - 5 mi	95 57 Trace	Trace	17 48 Trace	Ol 09 Trace		CITY	of Reclamation, Nationand Coast and Geodetic
	+ (+) (+)		# #20-140 -						E N Z PI		al Park Service Survey
									h Time	OVERTON	
									Period		
									E N Z		Time us
			1(S)						Phase	PIERCE	ed is
			06 06 23.4 Approx. 45 mi						h Time	CE FERRY	GOT
			*						Period		
									E N		
									z z		

MEAD SEISMOLOGICAL STATIONS

MONTH OF

December

19

400

CO

