Lake Mead 1947
Complete
12.3.48
1947

International Seismological Centre

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LAKE MEAD SEISMOLOGICAL SURVEY
U. S. COAST AND GEODETIC SURVEY
BOULDER CITY, NEVADA

POST OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

PREFACE

Instrumental Reports
Lake Mead Seismological Stations January 1947

Your attention is called to the absence of Instrumental Reports from the Lake Mead Seismological Stations for the months July 1946 to December 1946, inclusive.

To return the preparation of Instrumental Reports from the Lake Mead Seismological Stations to a current basis, Instrumental Reports for 1947 and 1948 are now being prepared contemporaneously. Instrumental Reports for the months July 1946 to December 1946, inclusive, will be issued soon after the 1947 Instrumental Reports are completed.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . JANUARY 1947

The stations at Boulder City, Boulder Dam and Overton operated on a routine schedule throughout January 1947. The station at Pierce Ferry was out of operation from 8 to 17 of January.

In the following report symbol I represents shocks with small trace amplitude, 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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date January	G. C. T.	Location of Epicenters
1	7	20:01:16.5	6½ miles SE of Hoover Dam Focal depth about 8 miles.
2	25	10:37:10.0	2½ miles NNW Boulder City Near River Mountain.

No earthquakes were reported felt in the Lake Mead region.

Confidential-not for publication.

M-1073-4 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
2	eP	02 26 07										
		Trace Local										
2	iP	03 03 08		+								
		I Local 5 miles										
2	e	06 05 17							eP?	06 02 47		
									e	05 12		
		Trace Distant										
2					i	22 58.0						
						I Local 8 miles						
3	iP	00 17 00			iP	00 17 00		+	iP	00 17 03	.9	+
	i	17 12			iP	11			iP	05.5		
		I Distant										
3	iP	02 28 18		+	iP	02 28 19			iP	02 28 21.5		
	i	32			i	31 41			i	31 47		
	i	31 42			eS	37 29			iS	37 42		
	eS	37 34										
		I Distant										
		C.G.S. 44° N, 144° E (Off East Coast of Hokkaido Island Japan)										
		O = 2:17.1 Δ = 5060 Miles										
3	iP	03 06 38			iP	03 06 39			iP	03 06 42		-
		Trace Distant										
3	eP	03 42 43							iP	03 42 46		
		Trace Distant										
3	eP	04 09 29.5							iP	04 09 33		
		Trace Distant										
3	iP	09 21 49.5							iP	09 21 52		
	i	22 02							iP	23 05		
									iPP	24 38		
		I Distant										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947

Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
3																	iP	12	29	41				
																		Trace Distant						
3																	iP	18	16	40.4				
																	iS		17	16				
																		Trace Regional						
3																	iS	18	19	06.6				
																		Trace Regional						
4	iP	00	49	12					iP	00	49	19					iP	00	49	15				
	e		51	38					i		51	44					i			24				
																	i		51	43				
		Trace Distant																						
4	eP	05	40	23													eP	05	40	17.5				
		Trace Distant																						
5	eP	09	06	37.5																				
		Trace Distant																						
5	iP	09	41	29.5																				
	iS			30.5																				
		I Local 5 miles																						
6																	eP	15	01	14				
																	iP			17				
																	iP			30.5				
																		I Distant						
6									iP	19	05+													
										II Local 5 miles														
7	eP	17	29	34													iP	17	29	36.5				
																	iP			45.5				
																	iS		30	33.5				
		Trace Regional Felt at Big Pine and Laws, Calif.																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947

Time used is GCT

		BOULDER CITY								OVERTON								PIERCE FERRY							
No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	7	eP	18	48	59													i	18	48	56				
																		iP		49	04				
																		eS		50	16				
		Trace Regional - North of Lake Arrowhead (P)																							
1	7	0	20	01	16.5																				
		iP	20	01	20.1		-45	+22	+	iPE	20	01	28.6					iP	20	01	27.2				
		i			20.9					i			30.3					i			33.8				
		i			22.1					i			31.0					iS			34.7				
		iS			22.6					iS			37.3					i			39.2				
		i			26.4					iS			37.6												
		I Local 13 miles ESE									43 miles								39 miles						
		Epicenter 6½ miles SE of Hoover Dam, Focal depth about 8 miles.																							
	8	iP	19	23	28																				
		I Local 3 miles																							
																		Out of Service 8 to 17 January							
	8	eP	19	39	17																				
		e		41	54																				
		Trace Distant																							
	9	eP	02	21	42																				
		Trace Regional Inglewood Fault - Felt at Huntington Beach (P)																							
	9	iP	12	08	24.5		-20	+13	+																
		i			26																				
		iS			27																				
		I Local 13 miles ESE																							
	9	iP	12	27	14																				
		Trace Distant																							
	9	iP	22	10	52				+	iP	22	10	56	.8			+								
		I Distant																							
	10	iP	02	25	15					iP	02	25	20	1.2			-								
		I Distant																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947 4

Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
10	i	09	52	19																				
	iS		52	44																				
	Small Trace Regional																							
10	iP	10	50	16.9		+67	+40		iP?	10	50	22.3												
	i			18.3					iP			23.7												
	iS			19.9					e			27.4												
									iS			28.7												
									iZ			29.3												
	I Local 15 miles NE									33 miles														
	Probable epicenter near south shore of lake 12 miles ENE of Boulder City and 7 miles NE of Hoover Dam.																							
11	iP	02	09	38																				
	Trace Local																							
11	iP	05	54	07.5																				
	Trace Local																							
11	eP	11	38	08					e	11	38	21												
	Trace Distant																							
11	eP	11	58	46					eP	11	58	43												
	i			50					iP			50												
	eS		59	34.5					eS		59	39												
	I Regional																							
	North of Bishop, Cal.(P) - Felt at Owens River Gorge, Big Pine, Bishop, Tinemaha and Woodlake.																							
11	iP	14	29	40					iP	14	30	42												
	Trace Distant																							
11	eP	16	58	00.5																				
	Trace Distant																							
11									i	22	39													
									I Local 10 miles															

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947 5

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
1947 Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	iP	14	58	38.5		-6	+35	+																
	iS			40.5																				
	I Local 7 miles																							
14	eP	02	48	28.5					iP	02	48	29												
	i			31.5					iP			32.6												
	iS		49	00					iS		49	05												
	i		50	54.5																				
	i		51	22.5																				
	II Regional - Near Gold Mtn. East of Tinemaha, Cal. (P)																							
14									iP	02	50	57												
									iS		51	29												
									II Regional Aftershock															
14	iP	03	10	53					iP	03	10	54												
									iS?		11	27												
	Trace Regional																							
14	eP	04	47	57.5					iP	04	47	57.1												
	eS		55	12																				
	Trace Distant																							
14	iP	06	39	02					eP	06	39	02.9												
									iP			04.2												
									eS			35.4												
	Trace Regional								I Regional 175 miles															
14	iP	07	48	02					iP	07	48	02.3												
									eS			38												
	Trace Regional								190 miles															
15-16	10	Traces Local 5 miles																						
15	eP	18	30	13					eP	18	30	23												
	i			16.5																				
	eS		32	37																				
	iE		33	17																				
	II Distant C.G.S. 27°N, 111°W (Gulf of California) O = 18:28.0 G.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
15	iP	19 55 25						iP	19 55 28	1.2											
		I Distant																			
16-17	2	Traces Local 5 miles																			
17	iP	11 06 41																			
	iS	55																			
		Trace Near Regional - 75 miles																			
17	iP	18 36 11.5																			
	iS	12.8																			
		I Local 5 miles																			
18	iP	02 43 39.5																			
	iS	40.5																			
	i	41.5																			
		I Local 5 miles																			
18	iP	09 37 21.5																			
	iS	22.5																			
		I Local 5 miles																			
19	iP	01 23 18						iP	01 23 20												
		Trace Distant																			
20	iP	00 44 20.5						iP	00 44 20						iP	00 44 24					
		Trace Distant																			
20	eP	01 40 41.0																			
		Trace Distant																			
20	iP	10 43 22					+	iP	10 46 29						iP	10 43 22					
	i	45 27																			
		I Distant																			
20	eP	11 01 15																			
		Trace Distant																			

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Day of Month	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
20	iP	11	45	34.5					iP	11	45	41					eP	11	45	34				
	i		47	22.0																				
	Trace Distant																							
20	iP	16	23	19.5																				
	i		26	15																				
	I Distant																							
20	iP	18	19	36.7																				
	iS			37.7																				
	Trace local 5 miles																							
20	iP	21	18	26																				
	I Distant																							
21	eP	07	00	08																				
	Trace Distant																							
21	iP	20	17	48		-12	+?	+38	iP	20	17	49												
	eS		27	17																				
	I Distant																							
	C.G.S. 25° S, 70° W (Near Coast of Northern Chile)																							
	0 = 20:06.7																							
21									i	22	35													
									I Local 8 miles															
22	iP	02	27	54																				
	Trace Local																							
22	eP	09	08	27.5					iP	09	08	29.3												
	Trace Distant																							
22	eP	11	37	32					iP	11	37	10												
	Trace Distant																							
23	iP	05	51	17.3																				
	iS			24.0																				
	Trace Local 35 miles																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947 — 8

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
23	iP	16 04 58				-		iP	16 04 56.5												
		I Distant	C.G.S. 53°N, 164°W (South of Unimak Is.)																		
									O = 15:57.5												
23	iP	20 02 35																			
	iS	03 20																			
		I Regional 250 miles																			
24	iP	04 40 44																			
		Trace Local																			
24															iP	15 50.5					
																I Local 5 miles					
24	eP	17 00 32													eP	17 00 33.5					
		Trace Distant																			
24	eP	19 19 05																			
		Trace Local																			
24	e	23 02 39.9													i?	23 02 49.2					
	iP	40.5													iP	50					
	iS	41.6													iS	56.1					
															iS	57.4					
		I Local 6 miles ?																			
25	eP	03 18 10.5													eP	03 17 55.5					
		Trace Distant																			
25	e	03 57 30						eP	03 57 30						eP	03 57 22					
	eP	59 19						e	59 20						eP	25					
	eS	04 11 14													i	59 14					
		I Distant																			
			C.G.S. 13°N, 88°W (Fonesco Bay, Between Nicaragua and El Salvador)																		
									O = 3:52.6												
25	eP	04 53 39						eP	04 53 41.5						e	04 53 30					
															eP	32					
		Trace Distant																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 1947

Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	O	10	37	10.0				
	iP	10	37	11.7		+57	-98	+190
	iS			12.9				
	i			14.9				
	i			16.5				
	i			18.7				
	II Local 6 miles							
25								
25	eS	17	20	34				
	Trace Distant							
25								
26	iP	10	13	28.5		+?	-?	-
	i		13	33				
	i		13	50				
	eS?		18	52				
	?S		23	33				
	II Distant							
26								
26	iP	14	07	19				
	Trace Distant							
26								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF January 1947 — 10

Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	iP	02	24	39.3																				
	iS		24	40.5																				
	Trace Local 6 miles																							
27	iP	02	42	11.7																				
	iS			12.7																				
	I Local 5 miles																							
27	iP	13	42	12																				
	Trace Distant																							
28																	iP	09	17	09.5				+
																	iS			31.5				
																	I Regional							
28	iP	09	22	46																				
	iS			47.2																				
	I Local 6 miles																							
28																	iP	09	57	12				
																	iS			33.5				
																	Trace Regional							
29									iP	08	28	54.5	1.1			+	iP	08	28	55			+	+
									i			54.8		+35	-38	-390	iS		38	07.3		-80	-80	
									i		29	17												
									iS		38	09.5	2.5	-	-100									
									i		47	27	1.2											
									i		55	25	1.2											
									I Distant															
									C.G.S. 27°S, 63°W (About 100 miles East Santiago del Esterio, Argentina)															
									0 = 08:17.8															
29-30																	3	I Local 5 miles						
30	eP	11	04	17					i	11	04	25					eP	11	04	23				
	iP			23					eP			33					iP			34				
	iS			55					iS		05	16					iS		05	11				
	Trace Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF January 194 7 11

Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
NO. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
30	iP	13	08	15.9		-3	-?	+	iP	13	08	07.2		-	+	+	iP	13	08	06.3		-45	-21	+
	i			16.6					i			12.8					iS			15.6				
	i			19.2					iS			17.7												
	i			22.4																				
	i			28.5																				
	iS			33.4																				
	iN			34.7																				
	iN			39.7																				
	I Regional 89 miles								I Local 55 miles								I Local 52 miles							
30	iP	17	23	50.5																				
	iS			51.5																				
	Trace Local																							
31	i	11	50	31													iP	11	48	22				
	i		51	00													e		49	59				
	i			22													eS?		50	41				
	Trace Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . FEBRUARY 1947

The stations at Boulder City, Boulder Dam and Pierce Ferry operated on routine schedules throughout February 1947. Due to chronometer failure at Overton on 3, 4 and 5 of February portion of the records for those days were lost.

In the following report symbol I represents shocks with small trace amplitude, 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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date February	G. C. T.	Location of Epicenters
3	6	14:32:24.7	10 miles SE of Hoover Dam
4	23	21:10:49.5	5 miles N of Hoover Dam, Lower Lake Basin.
5	25	14:33:03.1	About 10 miles West of Las Vegas, Near East slope of Madre Mountain.

No earthquakes were reported felt in the Lake Mead Region.

Confidential-not for publication.

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 194 7 1

Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1																	i	03	39.5					
																	Trace Local 5? miles							
1	iP	13	31	36					eP	13	31	39					iP	13	31	46		-	+	+
	i			45					iP			49					iP			59				
	iS		32	25					iS		32	36					iS			47				
	I Regional - Felt at Tehachapi and at Jawbone Aqueduct Sta., Calif.																							
1	iP	13	41	00					iP	13	41	03					iP	13	41	03.5		+	o	+
	Trace Distant																							
2																	iP	01	47	44				
																	Trace Distant							
2	iP	04	11	24					iP	04	11	27					iP	04	11	26				-
	Trace Distant																							
2																	iP	07	31	44				
																	iP			46.7				
																	i		32	29.5				
																	I Regional-Searls Lake, Calif.(P)							
2	iP	19	03	10					eP	19	03	12					eP	19	03	13				
	i			44					iP			46					iP			45				
	eS?		06	55																				
	Trace Distant																							
3	iP	16	52	09.5					iP	16	52	11					iP	16	52	07		+	-	-
	e			47													iP			52.8				
	Trace Distant																							
3	i	22	38	39													iP	22	38	36.0				
	i		39	34													i			42.4				
																	i			43.9				
																	eS		39	22.4				
	Trace Regional																							
3-4																	2	Traces Local 5 miles						

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1947

Time used is GCT

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
Sta. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	eP	06	53	50													eP	06	53	45				
	Trace Distant																							
4																	iP	11	26.5					
																	I Local 5 miles							
4	iP	23	50	07				+4									iP	23	50	09.5				+
	i			08		+6		+50																
	I Distant																							
5	iP	02	32	31.5																				
	iS			33.0																				
	Trace Local 8 miles																							
5	e	06	15	36													eP	06	15	43				
	i			49	1.0												eP			45				
	iS		16	53													iP			52				
	i		17	40													iP			59				
																	eS?		17	05				
	II Regional Near Coalinga, Calif. (P)								Felt at Lonoak, Coalinga, (West by NW)								Indria, and King City Mag 5 (P)							
5	eP	17	51	20													iP	17	51	23				
	Trace Distant																I Distant							
5									i	17	51.5						(Local shock riding on longer waves							
									II Local 8 miles								of teleseism)							
5	eP	21	56	37.5					eP	21	56	42					iP	21	56	35.5				
	Trace Distant																							
5																	iP	22	55	00				
																	iS			22.5				
																	Trace Regional							
6	iP	08	04	05					iP	08	04	03												
	Trace Distant																							
6																	iP	10	18	48.2				
																	i			55				
																	iS		19	07				
																	Trace Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF **February** 194**7** **3**

Time used is **GCT**

		BOULDER CITY								OVERTON								PIERCE FERRY							
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
Day	Date	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z
3	6	0	14	32	24.7																				
		iP	14	32	28.4		-33	+18	+									iP	14	32	34.8		-		-
		i			30.2													iP			35.5				
		i			30.5													i			40.5				
		iS			31.0													i			41.7				
		i			35.5													iS			42.1				
																		i			44.6				
																		i			47.0				
		I Local 13.5 miles ESE Epicenter 10 miles SE of Hoover Dam																							
	6	iP	15	06	36.5				+	iP	15	06	40					iP	15	06	40				
		eS		10	12					iP		06	57.5												
		I Distant																							
	6																	iP	16	44	09.5				
																		iS			32.5				
																		I Regional							
	6	iP	17	21	23	.8	+55	+15	+38	iP	17	21	29.5					iP	17	21	33		+48	+5	+
		iP			25					iP			38					iP			42.5				
		iP			29													iS		22	21.5				
		iP			31																				
		iS		22	05																				
		III Regional 210 miles WSW																							
		Near Walker Pass, Calif.k at Jawbone Aqueduct Station (P)																							
		Felt at Bakersfield, Visalia and Jawbone																							
	6	i	21	18	56													iP	21	19	05.5				
																		iP			14.5				
																		iS			59.5				
		Trace Regional - Aftershock (P) - Felt at Jawbone																							
	7	e	02	18	42																				
		Trace Distant																							
	7	iP	08	53	37.5	1.5	-	?	+12	iP	08	53	39.5				+	iP	08	53	40				+
		eS	09	04	11					eS		54	18					eS	09	04	13				
		I Distant																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1947 4

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	i	12	20	54													iP	12	20	59.5				
																	iP		21	11.5				
																	iS		22	02.5				
		Trace Regional - Kern River East of Bakersfield (P) -Felt at Kern River Power House No. 1																						
8	eP	10	41	41					iP	10	41	38					iP	10	41	46				
	i			50																				
	eS		47	25																				
	I Distant																							
8	eP	10	58	19					iP	10	58	16					iP	10	58	24				
	i			26													eS	11	03	37				
	eS	11	04	04																				
	I Distant																							
8	e	11	23	19					eP	11	23	10												
	Trace Distant																							
8	eP	11	38	54					iP	11	38	52					iP	11	38	59				
	i		39	02																				
	I Distant																							
8	e	11	54	26					eP	11	54	23					eP	11	54	31				
	eP			32																				
	i			36																				
	I Distant																							
8	eP	18	09	48					iP	18	09	46					iP	18	09	52.5				
	Trace Distant																							
9	i	04	40	32					iP	04	40	33					eP	04	40	29				
	Trace Distant																							
9	e	05	26	28													eP	05	26	25				
	Trace Distant																							
9									iP	07	46	56.5					iP	07	46	53.5				
									eS		47	25					is		47	17.5				
									I Regional															

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	BOULDER CITY							OVERTON							PIERCE FERRY						
Day	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
9								eP	09 14 38 Trace Distant						eP	09 14 46.5					
9								iP	11 18 19 Trace Distant						iP	11 18 24					
9								iP i	12 46 20 47 10 Trace Distant						eP	12 46 17.5					
9								iP	13 36 05 I Regional						iP	13 36 11.5					
9	iP	19 04 30 Trace Distant						iP	19 04 29 Trace Distant						eP	19 04 37					
10	e	04 20 57 Trace Distant																			
10	iP iS	06 46 03.6 04.6 Trace Local 5 miles																			
10	i	06 56 27 Trace Regional																			
10	i i	09 39 38 40 12 Trace Regional													eP eS	09 39 46 40 29					
11	iP eS	10 15 15.0 25 03.5 Trace Distant						iP	10 15 15						iP	10 15 17					
11	eP	18 48 45 Trace Distant													eP	18 48 42 Trace Distant					
11	iP	19 16 49 Trace Local																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF February 1947 6

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
11	iP	19 41 24.7										
	iS	25.7										
	Trace Local											
12	i	01 57 17			e	01 57 10			eP	01 57 15		
	i	58 08			eP	16			iP	27		
					eS	58 04			eS	58 04		
									iS	19		
	Trace Regional											
12	iP	05 00 02.5			iP	05 00 05			iP	05 00 06		
	Trace Distant											
12	i	13 34 04			e	13 34 04			eP	13 34 02.5		
					eP	09			eS	35 05		
					e	34 57						
	Trace Regional - East of Bakersfield (P) - Felt at Kern River Powerhouse No. 1											
12									i	17 03 26.5		
									iP	35.3		
									iS	04 17.6		
									Trace Regional			
12	eP	20 20 25			eP	20 20 22.5			eP	20 20 27		
	I Distant											
13	iP	00 24 14			iP	00 24 15	1	-	iP	00 24 13		
	I Distant											
13					i	03 40.0						
					I Local 6 miles							
13	eP	10 27 19										
	Trace Local 12 miles											
13	e	16 41 44							eP	16 41 31		
	i	44 14							e	43 25		
	i	33							e	59		
	I regional or Distant								I Regional or Distant			

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF February 1947

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
14	iP	06 50 24											iP	06 50 29				
		Trace Distant																
15	eP	01 15 09					eP	01 15 10					eP	01 15 14				
	eS	21 05																
		I Distant																
15	eP	08 33 27					eP	08 33 25					eP	08 33 30				
		Trace Distant																
16	eP	02 21 04					iP	02 21 06					iP	02 21 02				
	eS	28 44					e	31 53					iP	24				
													eS	28 05				
		I Distant																
16	iP	09 32 14					iP	09 32 13.5				+	iP	09 32 17				
		I Distant																
16							iP	21 57 41.5					eP	21 57 45.5				
							e	58 51					iS	30				
							Trace Regional -Near Walker Pass, Calif. (P) - Felt at Onyx, Calif.											
18	i	07 45 24	.5				i	07 45 23.3					iP	07 45 31.0				
	iP	28					iP	24.6					iP	37.0				
							iP	28.7					iP	43.0				
							iP	29.9					eS	46 15.0				
							iS	46 01.8										
		I Regional 210 miles					210 miles							245 miles				
							North of Death Valley (P)											
18							eP	09 26 55					iP	09 26 59.7				
							i	36					eS	20				
							Trace Regional - Near Walker Pass, Calif. (P)											
18	iP	13 42 12	1.0			+	iP	13 42 13					iP	13 42 15				
	eS?	51 59					iS	51 58					eS	51 59				
		I Distant																

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF **February** 1947

Time used is **GCT**

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
19									e	03 33 36.5		
									iP	40		
									eS	34 23		
										Trace Regional		
19					eP	10 54 48			eP	10 54 40		
									iP	49		
						Trace Regional?						
20	iP	07 05 32.4		-3 ? +								
	iS	33.6										
		I Local 6 miles										
20					iP	17 26 08			iP	17 26 05		
						Trace Distant						
20					e	18 23 52			eP	18 23 46		
					i	25 07			eS?	25 13		
						I Distant						
20	eP	19 46 15			i?	19 45 56			e	19 46 16		
					iZ	46 11			iP	26.5		
					i	49			eS	47 26		
						Lost in local disturbance						
		Trace Regional				Trace Regional				I Regional		
						East of Yosimite (P) Felt at Leevining						
21	eP	22 13 39			e	22 13 39			eP	22 13 45		+
	iP	42			iP	42.0						
		Trace Distant										
22	iP	02 15 24			iP	02 15 20		+ - +	iP	02 15 27		+ -
		Trace Distant										
22					i?	02 29 21			eP	02 29 30		
					iP	28			i	53.1		
					iS	52			iS	54.7		
						I Regional						
22	eP	04 18 35			eP	04 18 33			eP	04 18 30		
		Trace Distant										

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

		BOULDER CITY							OVERTON							PIERCE FERRY						
	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	22									eP	05	18	33					eP	05	18	41				
											Distant								Distant							
	22	eP	22	59	19					eP	22	59	21					eP	22	59	15				
			Trace Distant																						
	23	i	02	24	02					eP	02	23	54					iP	02	23	55.8				
		eP			33													iS		24	16.3				
		Trace Regional																							
	23	e	03	52	33					eP	03	52	30					eP	03	52	37				
		Trace Distant																							
	23	e	04	22	42					eP	04	22	44					eP	04	22	47				
		Trace Distant																							
4	23	0	21	10	49.5																				
		iP	21	10	51.9		+12	+20	-50	iS	21	11	07					iP	21	11	00.9				
		i			52.8					i			09.5					i			04.9				
		i			53.8													iS			09.0				
		iS			53.6																				
		i			58																				
		i		11	00																				
		II Local 8 miles NNE									35.5 miles								41.5 miles						
											Epicenter in lower lake basin 5 miles North of Hoover Dam														
	24									iP	02	00	36					e	02	00	36				
																		iP			39				
																		eS		01	03				
											I Regional														
	24									eP	10	11	50					eP	10	12	06				
										iP		12	0.5												
											I Distant														
	24	eP	17	42	23					eP	17	42	23					eP	17	42	20				
		e	18	10	56					e		53	40	1.5											
										e	18	10	58	1.5											
		Trace Distant																							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

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Time used is GCT

No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	25	iP	01	53	17.3													eP	01	53	20.5				
																		eS			59.5				
		Trace Regional - North of Superstition Mountain, Calif. (P)																Trace Regional							
	25	iP	02	59	32					iP	02	59	43					e	02	59	33.0				
										eS	03	00	30					iP			38.0				
																		eS	03	00	13.0				
																		eS			20.0				
		Trace Regional - North of Superstition Mountain, Calif. (P)																							
	25	iP	07	19	47																				
		is			48																				
		Trace Local 5 miles																							
5	25	0	14	33	03.1																				
		iP	14	33	11.7		+26	-15	+	i	14	33	15.3					iP	14	33	23.5				
		i			12.8					iP			18.8					i			26.0				
		i			14.2					iP			20.6					i			31.4				
		i			16.5					i			28.8					i			35.8				
		is			17.7					eS			31.8					e			38.3				
																		iSN			39.4				
																		iSE			39.8				
																		i			41.6				
																		i			43.6				
																		i			45.3				
																		i			48.0				
																		i			50.3				
		I Local 31.5 miles WNW								54 miles Epicenter about 10 miles West of Las Vegas near the East slope of Madre Mountain								76 miles							
	25	eP	23	36	19													eP	23	36	22.5				
		Trace Distant																							
	26	iP	01	57	24				+	iP	01	57	25					iP	01	57	21				-
		i			31.5																				
		I Distant																							

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

No. Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
28	iP	10	24	56					iP	10	24	59.5					iP	10	24	59.5				
		Trace Distant																						
28	iP	19	40	00					iP	19	40	00					iP	19	40	03				
		Trace Distant																						
28	iP	19	54	43.4				+																
	iS			44.7																				
		I Local 6 miles																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . .March 1947

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout March 1947.

In the following report symbol I represents shocks with small trace amplitude. 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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

No local epicenters were located in March 1947

The following earthquake was reported felt:

1 March 1507 GCT II at Boulder City, felt by several.

Hereafter, distances accompanying the readings of local shocks will be epicentral distances, instead of focal distances as heretofore, new technique which is now being used to locate local epicenters will be discussed in a later report if it proves satisfactory.

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF March 1947 1.

Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	iP	10	23	29.7																				
	iS			32.2																				
	Trace Local																							
1	iP	10	41	03.7					iP	10	41	10					iP	10	41	13.5				
	iP			10.0					iP			18.7					iP			22.0				
	eS			45.2					iS			57.7					iP			23.5				
	I Regional																i			27				
																	i			37.5				
	Near Walker Pass, Felt at Sandy Canyon and Weldon																iS		42	07				
1																	iP	12	01	40.5				
																	Trace Distant							
1																	iP	12	59	11.8				
																	iS			51.0				
																	Trace Regional							
1	iP	12	59	01.1		-10	+10	+	iZ	12	59	14.6					iP	12	59	11.8				
	i			01.9					i?			15.3					iE			19.9				
	iS			02.2					i			19.5					iZ			20.2				
									iZ			19.9					iSE			20.5				
									iS			20.2					iS			21				
	I Local, about 35 Miles SE of Boulder City																46 Miles							
1	iP	15	07	25.0		-100	+65	+	i	15	07	34.2					Lost because event occurred at							
	iS			26.1					i			43.2					Time of changing records.							
	II Local, 3 Miles ESE								i			45.5												
	Felt in Boulder City								45 Miles															
1									i	17		33.4												
									II Local 5 Miles															
1									iP	21	34	31.5					iP	21	34	33				
									Trace Distant								Trace Distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF March 1947

Time used is GCT

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	BOULDER CITY	iP	23	15	22.6				
		iS			23.3				
		I Local, 4 Miles							
1	BOULDER CITY	iP	23	44	06.6				
		iS			08.1				
		I Local							
2	BOULDER CITY	iP	01	32.5					
		Trace Local							
2	BOULDER CITY	iP	02	42.0					
		Trace Local							
2	BOULDER CITY	iP	16	09	35				
		iS		10	00				
		I Regional, North of Barstow, Califronia (P)							
2	BOULDER CITY	iP	18	40	10.8				
		iS			11.8				
		I Local 5 Miles							
2	BOULDER CITY	eP	19	23	18				
		e		27	23				
		eS		33	56				
		I Distant							
2	BOULDER CITY	eP	21	32	08				
		eS			33				
		I Regional, North of Barstow, Calofornia, (P)							

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	OVERTON	Core ?							

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	PIERCE FERRY	eP	16	09	40.7				
		iP			47.1				
		e			57				
		eS		10	14				
		iS			21				
		eS			39				
2	PIERCE FERRY	eP	19	23	19				
		e		26	47				
		iS		33	59				
		e		36	33				
		e		43	37				
		I Distant							
		i	21	32	15.5				
		eP			20				
		eS			55				
		Trace Regional							

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF March 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	e	04	32	00					iP	04	32	07					iP	04	32	06				
		Trace Regional							i			52					eS			48				
									E of Garnet, North Coachella Valley, California (P)								Trace Regional							
4	iP	08	38	19.0																				
	iS			19.5																				
	I Local 4 Miles																							
4	e	17	46	11													iP	17	46	13.5				
	Trace Distant																							
4									i	22	30													
									I Local 8 Miles															
5	iP	21	38	31.2																				
	iS			32																				
	Trace Local 4 Miles																							
6																	iP	00	41	23				
																	Trace Distant							
6	iP	18	57	31.5																				
	iS			32.5																				
	I Local 5 Miles																							
6	eP	21	50	25.3					i?	21	50	34.5?					iP	21	50	34.4				
	iS			28.3					i			35.7?					iS			42.8				
	iS			29.2					iS			39.0?					I Local							
	I Local								Trace Local															
6									i	21	51.5													
									I Local 8 Miles															
7	e	04	34	32					eP	04	34	31					eP	04	34	37				
	Trace Distant																							
7	iP	16	57	43																				
	Trace Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF March 1947. 4.

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7	eP	20	51	57				
		Trace Regional						
8	iP	09	10	55				
		Trace Distant						
8								
8	iP	15	08	48				
		I Distant						
9	i	21	11	23.5				
	iP			28.5				
	i			42				
		II Regional 155 miles Northeast of Inyokern, California(P)						
		Felt at Trona, Weldon, and Aqueduct Stations						
10	iP	02	14	18.4				
	i			21.7				
	e			37				
	iS			39				
		I Regional						
10	e	04	28	32				
		Trace Distant						
10	iP	07	06	16.5				
		Trace Local						
10	iP	07	07	16.5				
	iS			17.2				
		I Local 5 miles						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	02	14	08.2			-	

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	20	50	57				
iP		51	00				
i			45				
e		52	01				
	Trace Regional						
iP	09	10	58				+
iP	13	55	01.5				+
iP	15	08	49				
	I Distant						
iP	21	11	32.8				
iP			35.5				
iP			40.5				
iP			46				
i		12	08				
iS			20				
	II Regional						
iP	02	14	12.6			-	+40 -
i			20				
i			24				
iS			28				
	II Regional						
e	04	28	23				
	Trace Distant						

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LAKE MEAD SEISMOLOGICAL STATIONS

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BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
11	eP	05 28 36				
		Trace Distant				
11	e	05 50 43.5				
	i	51 16.5				
		Trace Regional, East of Big bear Lake, California(P)				
11	e	11 10 39				
	i	12 12.5				
		Trace Regional				
11						
12						
12	iP	22 06 37.6				
	iS	38.8				
13	e	06 14 08				
		Trace Distant				
13						

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	05 28 32.5				
iP	46				
	I Distant				
eP	05 50 50				
iP	51 00				
i	27				
i	37				
e?	11 10 19				
iP	33				
	Trace				
i	20 19.5				
	I Local, 8 Miles				
eP	09 00 53				
i	19 03.2				
	II Local 8 Miles				
iP	06 14 09				
	Trace Distant				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
e	05 28 37				
	Trace				
iP	05 50 49.5				
iP	59				
iS	51 35				
	I Regional				
eP	11 10 04.3				
iP	21				
i	11 24.5				
i	51				
	I Regional				
e	09 00 38				
eP	48				
i	02 09				
	Trace Regional				
iP	22 13 42				
i	47				
iN	51		+?	+	-
iSZ	52.5				
iSE	53				
	Trace Local				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF March 194~~7~~6.

Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
Day Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	iP	08	11	54					iP	08	11	53					iP	08	11	56.5				
	Trace Distant																Trace							
14	iP	08	23	37					iP	08	23	36					iP	08	23	41				
	Trace Distant																							
14	iP	11	37	49					iP	11	37	52					iP	11	37	53				
																	Trace Distant							
14	iP	13	26	39					iP	13	26	41					iP	13	26	39				
	Trace Distant																I Distant							
14	eP	17	31	21					eP	17	31	17					iP	17	31	24				
	Trace Regional								iP			20					iP	17	31	31.5				
									i			41					e		32	11				
									iS			54												
14																	iP	20	12	37.5				
																	Trace Distant							
14	iP	22	36	03					iP	22	35	59					iP	22	36	04				
	Trace Distant																							
14																	iP	23	06	25				
																	iP			34				
																	eS		07	18				
																	Near Walker Pass, Felt at Weldon, (F)							
15	iP	05	36	52					iP	05	36	51.5					iP	05	36	54				
	Trace Distant																I Distant							
15	iP	08	14	30					eP	08	14	34					iP	08	14	26				
	e	08	17	49					e		17	34					e		17	24				
	I Distant																							
~~15~~																	~~eP~~	~~08~~	~~14~~	~~26~~				

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Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	iP	14	16	31				+
	i		16	49				
	I Distant							
15								
16	iP	02	53	31.8				
	iS			32.8				
	I Local 5 Miles							
16	iP	04	42	33.8				
	Trace Local							
16	iP	16	36	10		+52	-96	+
	iS			11.5				
	II Local, 5 Miles NNW of Boulder City.							
16	iP	16	38	59				
	iS		39	00				
	I Local 5 Miles							
17								
17	iP	06	35	49				
	Trace Distant							
17	iP	07	50	18				
	iS			19				
	I Local 5 Miles							
17	eP	08	33	39				
	e		36	59				
	e		37	55				
	eS?		52	07				
	I Distant, Cos. 29°N, 100°E. (Sikang Province, China) O - 08 19.3 Δ ; 7450 Miles							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	14	16	32				
Beginning obscured by Local Disturbance.							
i			21.4				
I Local 8 Miles							
iP	06	35	45.5				-
eP	08	33	37				
e		37	24				
e			47				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	14	16	27.5				
ipP			45				
iP		17	06				
eS		26	30				
iS	02	53	48.6				
eP	16	36	21.4				
iSE			29.4				
iSZ			31.4				
i	01	54	14				
Trace Local?							
iP	06	35	51				-
Trace							
e	08	33	37				
e		37	20				
e			55				
e		45	07				

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
17	e	11 35 25				
		Trace Distant				
17	iP	13 54 42				
		Trace Distant				
17						
17	iP	23 31 37.8				
	iS	38.8				
		I Local 5 Miles				
18						
18	iP	15 28 09		-	+	-
	i	18				
	e	36 15				
		I Distant				
18	eP	23 05 14				
	eS	37.5				
		Trace Regional				
		Near Thousand Palms NE of Edon, California(P)				
19						
19	iP	06 11 29.3				
	iS	30.5				
		I Local 6 Miles				
20						

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	11 35 28				
iP	13 54 40			-	
1	05 43 03				
	Trace Regional				
	East of Riverside, California (P)				
eP	15 28 12				
e	35.1				
	I Distant				
iP	23 05 22				
iP	26				
eS	56				
iP	05 18 13				
	Trace Distant				
iP	03 55 33.5				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	11 35 28				
	I Distant				
iP	13 54 45		-	+	-
	I Distant				
iP	14 22 57				
	Trace Distant				
eP	05 42 08				
iS?	43 02				
	Trace Regional				
iP	15 28 08				
eS?	31 41				
e	34.3				
	II Distant				
iP	23 05 20				
iP	2 25				
eS	57				
iP	05 18 16				
iP	03 55 33				
	Trace Distant				
iP?	06 25 00				
i	03				

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Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
20					eP	06 37 49			iP	06 37 49		
										Trace Distant		
21	iP	16 38 30			eP	16 38 14			iP	16 38 10		
		Trace Distant			iP	31			iP	16		
									iP	28		
21	iP?	19 40 32.5			eP	19 40 39.5			iP	19 40 34.6		
	iP	42.5			iP	55			iP	36.5		
	eS	41 20			iP	41 07			iP	47		
		I Regional			eS	33			i	41 12		
		Near Brawley, California (P).			Felt in Imperial Valley				eS	32		
										II Regional		
21									iP	19 52 08.5		
									iP	19.5		
									eS	53 06		
										Trace Regional, Aftershock		
21					iP	23 10 16.5		-	iP	23 10 16.5		-
									i	32 03		
										Trace Distant		
22	iP	09 53 02		+12 -19 -88	iP	09 53 03		+40 -60? -	iP	09 52 59		+40 -26 -
	i	09			eS	02 24			ipP	53 13		
	eS	10 02 55							e	10 01.8		
		Δ = 77° Dilatation							eS	02 16		
										II Distant		
23									i	03 30		
										I Local 10 Miles		
23	iP	04 21 31		+30 +80 +								
	iS	32.6										
		II Local 5 Miles SSE										
23	iP	06 41 32.6										
		Trace Local										

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No / Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z	
23	iP	08 50 55.6											
	iS	56.6											
		I Local 5 Miles											
23	iP	09 07 22											
	iS	23											
		Trace Local											
23	iP	10 38 09.7											
	iS	10.7											
		I Local 5 Miles											
24									1	06 39			
										I Local 10 Miles			
24	iP	16 48 56							iP	16 48 59			+
		Trace Distant								I Distant			
25	e?	02 28 01							eP	02 28 03			
	e	30 28								Trace			
		Trace Distant											
25	e	04 00 45							eP	04 00 43			
		Trace Distant								Trace			
25	e	09 32 27							eP	09 32 24			
		Trace Distant								Trace			
25	e	16 59 10							eP	16 59 06			
		Trace Distant								Trace Distant			
25	e	20 45 52							e	20 45 42			
	e?	49 37								Beginning Uncertain			
		Trace Distant - CGS 39°S, 178°E. Proverty Bay off east coast of North Island, New Zealand, 30 foot Tidal Wave reported along east coast. O = 20 32.2 Δ = 6710 Miles.											
26									iP	00 45 27			

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	iP	08	42	26				
		Trace Distant						
26	iP	19	26	08				
		Trace Distant						
26								
27								
27	eP	09	18	19				
	iP			30				
		I Regional off coast of California (P)						
		Felt at Tempoc and Los Alamos						
27								
28	iP	00	07	55.5				
	iS			56.5				
		II Local 5 Miles						
29	iP	07	38	58		+25	+	+
	i		39	00.3				
	i			03.6				
	iS			04.5				
	i			08				
	i			09.7				
	i			12.1				
	i			16				
	i			18				
	i			33.5				
		I 60 Miles Epicenter Near Sloan, Nevada 22 Miles West, May be Blast						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	08	42	25				
1	19	40					
	II Local 8 Miles						
iP	07	39	09				
iS?			10.5				
i			21				
i			22.5				
i			23.5				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	08	42	29				-
	I Distant						
iP	19	26	30				
ipP		27	00				
	I Distant						
iP	06	18	28				
	Trace Distant						
iP	09	18	17.5				
iP			25				
iP			40				
	I Regional						
eP	19	29	15				
	Trace Distant						
	Trace						
iP	07	39	10.4				
iP			11.1				
i			13				
i			19				
i			24				
iS			25.8				
iS			28.1				
i			32				
	69 Miles						

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No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
29	iP	17 12 16				
		Trace Distant				
29	e	13 12 28				
		Trace Distant				
29	iP	18 49 28				
	iP	47				
		Trace Distant				
30	iP	00 48 22				
	i	22.3				
	i	26.1				
	i	35.6				
	iSN	38.3				
	iS	38.9				
		Trace Regional NE of Overton, Nevada 83 Miles				
30	30					
30	eP	07 45 42				
		Trace Regional				
30						
30						
31	e	05 03 22.5				
		Trace Distant				

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON					
iP	00 48 12.4				
i	14.2				
i	16.6				
iS	21.4				
i	25.6				
i	30.5				
	I Local 47 Miles				
eP	07 45				
iP	07 51				

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY			-	+	+
iP	17 12 19				
	I Distant				
eP	18 12 21				
e	18 49 23				
i	46				
	Trace				
eP	00 48 13.6				
i	14.3				
i	17.9				
i	21.9				
eS	22.8				
iS	23.3				
iE	26.7				
iK	31				
	I Local 52 Miles				
iP	03 38 18				
iS	45 18				
	Trace Distant				
e?	07 45 30				
iP	47				
eS	48 14				
	Trace				
iP	07 51 36				
i	16 11.6				
	Local Trace 50 Miles				

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . April 1947

The stations at Boulder City, Boulder Dam, Overton, and Pierce Ferry operated on routine schedules throughout April 1947.

In the following report symbol I represents shocks with small trace amplitude, 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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

No earthquakes were reported felt in the Lake Mead region during April.

Epicenters were located in the Lake Mead region as follows:

No.	Date	G. C. T.	Location of Epicenters
6	April 21	10 44 57.3	8 Miles ENE Boulder City Kingman Wash, 2 miles ENE Hoover Dam
7	28	22 55 33.0	25 Miles N Boulder City Near Apex, Nevada, (may be blast).
8	29	14 57 18.7	13 Miles NNE Boulder City, in Callville Wash.

Confidential-not for publication.

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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	BOULDER CITY							OVERTON							PIERCE FERRY						
Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	iP	03	36	17.2														Trace						
	iS			18.6																				
	I Local																							
1																	iP	12	08.5					
																		Local Trace, 45 Miles						
1	iP	14	28	07					iP	14	28	07.5					iP	14	28	04				+
	Trace Distant																eS		36	56				
																		I Distant						
1	iP	15	31.4																					
	Local Trace																							
2									iP	02	06	18				-	i	02	06	14				
2	eP	05	53	22.5					iP	05	53	28					eP	05	53	27				
	i			30					i		55	37.5					e		56	29				
	i		57	48					e		56	47					e		57	25				
	eS	06	04	37					e		57	17												
	I Distant. C&GS 1°S, 141°E, (off Northern Coast of New Guinea) O = 5 39.3 Δ = 7080 Miles.																							
2									e	06	09	09					eS?	06	05	05				
									e		17	00					e		08	57				
																	e		17	03				
																		Coda						
2	iP	06	51	07.8																				
	iS			08.8																				
	I Local																							
2									i	11	53	56												
										Trace Regional?														

LAKE MEAD SEISMOLOGICAL STATIONS

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International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	iP	15	16	31.3					eP	15	16	39					iP	15	16	36.5				-
	iP			33.8					i			50.5					i			40.9				
	i			40					iP			54.5					i			43.3				
	i		17	16					e		17	24					i			46.9				
	iS			25.5					e			38					iP			50.8				
		II Regional							II Regional								e		17	22.4				
																	e			29				
																	iS			36				
		Near Mexicali (P) Felt in Southern Imperial Valley																II Regional						
2	eP	21	02	47													i	21	02	56				
		Trace Distant															Beginning obscured by local disturbar							
3	i	19	37	22					iP	19	37	10.5				+	iP	19	37	19.5				
	i			25.8					i			16.5					iS			36				
	i			32					iS			19						I Regional 85 Miles						
	i			36						II Regional														
	i			39																				
		Trace Regional																						
3									i	20		44.0												
										II Local														
5	eP	05		36.7																				
		Trace Local 10 Miles																						
5	iP	07	09	25																				
	iS			26.2																		Trace		
		II Local 6 Miles																						
5									iP	07	31	04												
										Trace Regional														
5	iP	08	00	06.0		+	+	+																
	iS			11.0																				
		Bomb Blast, 5700 Pounds of T.N.T.																						

International Seismological Centre

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BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	eP	09	32	20					iP	09	32	28					iP	09	32	22.3				
	eS		33	43													iP			27				
		I Regional															i		33	20				
																	e			35				
5									iP	14	35	10					iP	14	35	12				
																		Trace Distant						
6																	i	00	59	32				
																	iP			51				
																	iS	01	00	51				
																		Trace Regional						
6																	iP	06	11	45.4				
																	iP			46.6				
																	iS			55.0				
																		Trace Local						
6	iP	06	39	29													iP	06	39	40.4				
	iS			41													iS		40	02.2				
		Local Trace																Trace						
6	iP	08	12	07					+	iP	08	12	15.3				iP	08	12	10.2		-	+	+
	i			27.5													iP			11.0				
	eS		13	26.5													i			21				
		II Regional, Lower California (P).															i			24.5				
																	i		13	07				
																	e			18				
																		II Regional						
6	iP	11	40	39.5																				
	iS		40	40.7																				
		I Local																						

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MONTH OF April 1947. 4.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	eP	12	15	47					eP	12	15	57					iP	12	15	47				
	eS		16	20.5					iS		16	35					i			59				
																	i		16	30				
		I Regional, Little San Bernardino Mtns, California (P)																Trace						
6	iP	15	35	20.1																				
	iS			21.5																				
		I Local 6 ~~Miles~~																						
6	iP	15	36	10																				
		Trace Local																						
6	iP	16	24	20																				
	iS			21.5																				
		I Local																						
7	iP	08	59	41.3																				
	iS			42.3																				
		I Local																						
7	iP	18	09	3D.6																				
	iS			31.6																				
		I Local																						
7	eS	21.	03	58													iP	21	02	41				
																	iP			44.5				
		Trace Distant, Lower California(P)															i			51.5				
																	eS		03	53				
8																	eP	03	48	43				
																		Trace Distant						
8																	i	04	41.2					
																		I Local 6 Miles						
9	eP	08	22	28																				
		I Distant																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947.

Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9								
10	iP	14	52	18				
	i			19.9				
	iS			33.5				
	I Near Regional							
10	iP	15	58	22.5	I Distant			
10	iP	15	58	34.2				
	Trace Disapears							
	Strong Regional Earthquake, Felt widely in Southern California and Southern Nevada, Felt in Boulder City, and Las Vegas. Pasadena Epicenter 34°58"N, 116°32"W. O = 15 58 04.							
	Unless otherwise designated, readings of the following few days are of aftershocks, only a few of which are separately measured. Where local disturbances permit. Most of these aftershocks recorded also at the Overton station, but were not read separately.							
10								
10								
10	iP	16	49	59.5				
	iS		50	20.5				
10	iP	16	51	30.5				
	II							
10	iP	17	01	14.5				
	iS			35.5				
	II							

OVERTON

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9								
10								
10	iP	15	58	26	I Distant			
10	iP	15	58	43				
	Trace Disapears							
10								
10								
10								
10								

PIERCE FERRY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9	iP	22	38	48.7				
	iP			59.7				
	eS		39	20				
	iS			22				
	Trace Regional							
10	iP	14	52	21.7				
	iP			22.7				
	e			37				
	eS			42				
10	iP	15	58	25.7	I Distant			
10	iP	15	58	44				
	Trace Disapears							
10	iP	16	16	08				
	III Regional							
10	iP	16	31	23				
	III Regional							
10	iP	16	49	11				
	iP		51	41.5				
10								
10	iP	17	01	31				
	i			55				
	II							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947. 6.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Day Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
10	iP	17	08	33.5													iP	17	08	43.5				
		III																III						
10	iP	17	12	45.5													iP	17	12	47				
		II																						
10																	iP	17	19	00				
10																	iP	18	28	37				
																		III						
10																	iP	18	52	13				
																		II						
10																	iP	22	28	02				
																		III						

April 10, 11 — 220 additional aftershocks, of designation traces, or I, Counted on the Pierce Ferry record from 1600, 10 April to 1501, 11 April GCT. This does not include aftershocks which were lost because of excessive trace amplitudes immediately following the main shocks, or principle aftershocks. Whenever local disturbances permitted, these aftershocks were recorded also at Overton and Boulder City.

11	iP	02	17	41.2													iP	02	07	50				
		I Regional															**iP**	**02**	**14**	**01**	**I Distant**			
11	iP	02	48	26.2													iP	02	48	33				
		II																						
11	iP	03	32	39.7					iP	03	32	48					iP	03	32	49				
		II																						
11	iP	03	56	33.2														Trace						
		I																						
11	iP	04	51	33.2													iP	04	51	39.5				
		II																II						

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 194**7**, 7.
Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	iP	07	47	38.1					iP	07	47	46.5					iP	07	47	47.4				
	III Strong Aftershock																III							
11	iP	10	44	47													iP	10	44	55.6				
	II																							
11	iP	11	09	04.5					iP	11	09	13					iP	11	09	13.8				
	II																	II						
11																	iP	11	40	42.5				
																		II						
11	iP	11	53	47													iP	11	53	54.0				
	I Regional NW of Morongo Valley, California (P)																							
11																	iP	12	31	22				
11	iP	13	53	30													iP	13	53	36				
	I Regional																							
11	iP	14	42	51													iP	14	43	03				
	II Regional																							
11	iP	15	42	49													iP	15	42	37				
	I Regional																	I						
11																	iP	15	43	57				
																		II						
11																	iP	15	59	21				
																		I						
11	iP	18	18	53													iP	18	18	48.7				
	iS		19	06													i			54.7				
	II Regional																i		19	04				
																	i			11				
																	i			20				
																	i			25				
																		II						

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 194 7. 8.

Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	1P	18	44	10													1P	18	44	19				
	1P			13														II						
		II																						
11	1P	19	32	37													1P	19	32	40.5				
		I Regional																						
11	1P	19	43	26													1 P	19	43	32.2				
																	1			38				
																	1			46				
																	1		44	01				
																	1			09				
11	1P	21	36	06													1	21	36	37.5				
		I Regional																Beginning Obscurred						
11	1P	22	32	36													1P	22	32	42.5				
		I Regional																						
11	1P	23	37	31														Trace Beginning Obscurred						
		I Regional																						
11, 12		1507 11th to 1502 12th, 36 additional traces aftershocks recognised at Pierce Ferry, others obscurred by wind disturbance																						
12	1P	01	58	04													1P	01	58	09.5				
		I Regional																						
12	1P	03	28	33													1	03	28	39				
		I Regional																						
12	1P	04	40	32													1P	04	40	41				
		I Regional																I						
12	1P	04	42	38													1	04	42	44				
		I Regional																Trace						
12	1P	06	36	50														Trace						
		I Regional																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947. 9.

Time used is GCT

BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	eP	07	49	25														Trace						
		I Regional																						
12	iP	08	03	29													iP	08	03	35				
		II Regional																						
12	eP	08	45	55														Trace						
		I Regional																						
12	iP	09	27	51														Trace						
		I Regional																						
12	eP	11	07	08													1	11	07	14				
	eS			32																				
		I Regional																						
12	iP	12	16	38														Trace						
	iS			05																				
		I Regional																						
12	iP	12	57	16.5													iP	12	57	21.5				
	iS			40																				
		II Regional																						
12	iP	13	44	47													iP	13	44	54				
	iS		45	10														I						
		I Regional																						
12	iP	18	05	05													iP	18	05	14				
	iS			30														II						
		II Regional																						
12	iP	20	01	48													iP	20	01	54.5				
	iS		02	10														I						
		I Regional																						
12	eP	20	15	16														Trace						
	eS			40																				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF ~~April~~ OCT 194

Time used is

Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
~~13~~	1506 12th to 1901 13th, 14 additional trbns, aftershocks recognised at Pierce Ferry																	
13													iP	02 28 14 I Distant				
13	iP iS	21 45 01 34 II Regional											eP	21 45 07				
12	iP iS	21 51 34 52 07 II Regional											iP	21 51 39.5				
12	iP iS	22 32 05 48 I Regional											iP?	22 32 25				
12	eP ?	23 25 00 Regional											iP	23 25 05.8				
12	iP iP	23 49 22 25 III Regional											iP iP	23 49 31.1 36 III				
13	eP iS	02 01 08 31 I Regional												I Beginning Lost in wind Disturbance				
13	iP iS	03 29 08.5 37.5 II Regional											iP	03 29 14				
13	iP	03 58 46 I Distant					iP	03 58 45.5					iP	03 58 44 I Distant				
13	iP iS	04 00 44 01 04 II Regional											iP	04 00 50.5 II Regional				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF April Oct 194 7, 11.

Time used is

BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	iP	04	06	11.5													iP	04	06	20.5				
	iS			34																				
	I Regional																							
13	eP	04	23	02													i	04	23	08.5				
	eS			24													eS			44				
13	iS	04	23	04													iS	04	23	20				
	I Regional																							
13	iP	04	40	58													iP	04	41	03				
	iS		41	21																I				
	I Regional				iP	05	18	06									iP	05	18	11.5	I			
13					iS			28																
13	iP	05	38	36	I Regional												iP	05	38	41.5				
	iS			58																II				
	II Regional																							
13	iP	10	56	24													iP	10	56	30				
	iS			48																I				
	I Regional																							
13	eP	12	07	53.5													iP	12	07	59				
	eS		08	17																I				
	I Regional																							
13																	iP	13	31	48				-
																		I Distant						
13	iP	17	44	21					iP	17	44	20					iP	17	44	23				+
	I Distant																i		47	23				
																	I Distant							
13	eP	18	03	13													iP	18	03	20				
	eS		03	51																				
	I Regional																							
13	iP	20	42	15.4														Trace						
	I Local																							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF April 194 7, 12.

Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
13	iP	22	19	02.5				
	iS			26				
	I Regional							
13, 14		1507 13th to 1500 14th, 21 additional traces, regional shocks recognized at Pierce Ferry.						
14	eP	00	15	16.4				
	iS			40				
	I Regional							
14	iP	02	34	23				
	i			46				
	II Regional							
14	iP	06	50	50				
	Trace Distant							
14	iP	07	26	46				
	eS		36	~~00~~				
	I Distant, GDB 45°N, 146.5°E. (Off Northeast Coast of Hokkaido, Japan) Q = 7 15.5 Δ = 4938							
14								
14								
14	iP	08	02	05.8				
	iS			06.8				
	I Local 5 Miles							
14								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	07	26	46				
eP		54	42				
iP	07	34	~~30~~				
iP	07	52	09				
eP	08	51	51				
Trace Distant							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	22	19	07.5				
iP			13.5				
iS			46.5				
iP	00	15	22				
iP			28.5				
iP	02	34	29				
i			35.5				
i			41				
i			46				
iS			58.5				
iS		35	06				
iP	06	50	39				
iP	07	26	50				
eS			02				
Coda II Distant							
iP	07	34	34				
I Distant							
iP	07	52	13				
I Distant							

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF April 194 7. 13.

Time used is GCT

No. / Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
14	~~iP~~	~~09 12 58.8~~							iP	09 13 07.7		+
	iP	01.2							i	10.1		
	eS?	27.8							i	14		
		II Regional							i	25		
									iS	39		
									iS	45		
										II Regional, Probably not aftershock		
14									i	09 59		
										Trace Local 6 Miles		
14									iP	10 30 37		
										Trace Distant		
14	eP	12 30 15.6							iP	12 30 20.3		
	eS	38.6								I		
		I Regional										
14	eP	12 52 08.6								Trace		
	eS	30.6										
		I Regional										
14									iP	13 30 25		
										Trace Distant		
14	eP	16 29 13.5							iP	16 29 20		
	eS	38.5										
		I Regional										
14									e	16 37 19		
										Trace Distant		
14	iP	21 24 37.5							iP	21 24 12		
	eS	59										
		I Regional										
14	eP	21 42 36.5							iP	21 42 42		
	eS	57.5										
		I Regional										

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF April 194 7, 14.
Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
		Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z	Phase	h	m	s	T	E	N	Z
14, 15	1500 14th to 1500 15th 11 additional regional shocks recorded at Pierce Ferry																							
15	eP	02	36	22.5													eP	02	36	20				
	eS		37	03.5													eS		37	15				
	I Regional Not aftershock, Southwest of Brawley, California (P)																							
15	eP	02	57	52.5													eP	02	57	56.5				
	eS		58	11.5													Trace							
	I Regional																							
15																	iP	03	57	47				
																	Trace Distant							
15	iP	06	44	09.5													iP	06	44	16				
	eS			32.5																				
	I Regional																							
15	iP	06	56	07.5													Trace							
	iS			08.5																				
	I Local																							
15	iP	07	51	19.7					iP	07	51	28					iP	07	51	29		-28	-19	-
	iP			22.5													iP			31.4				
	i			32.5													iP			33.6				
	i			35													iP			34.6				
	eS			46													i			40				
	II Regional																i			46				
																	i			54				
																	iE			54				
																	iZ			59.5				
																	eS		52	03				
15	eP	08	14	07.5													iP	08	14	13.5				
	iS			31.5																				
	I Regional																							
15	eP	11	05	48.5													Trace							
	eS		06	12.5																				
	I Regional																							

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF OCT 194

Time used is

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	eP	11	07	01.5														Trace						
	eS			25.5																				
15	e	11	11	22.5														Trace						
	Trace Regional																							
15									eP	13	08	29					iP	13	08	24.5				
15	eP	13	09	30.5					iP	13	09	38					iP	13	09	33.6				
	iS			45.5													iP			35				
	I Near Regional, Probably SW of Boulder City.																i/			43.5				
																	i			48.5				
																	eS			50				
15	iP	13	12	35.5													I Near Regional - not an aftershock							
	iS			37.5																				
	I Local																							
15																	iP	15	47	55.7				
																	iS		48	12				
																	I Near Regional							
15	eP	16	54	40																				
	Trace Distant																							
15	iP	17	52	44.5													iP	17	53	02.4				
	I Local																e			09.2				
	Beginning Indefinite																eS			9.9				
15	eP	19	35	49.4													iP	19	35	57				
	iS		36	14.4																				
	I Regional																							
15																	iP	22	40	08				
																	I Distant							
15, 16	1500 15th to 1500 16th 14 additional traces of regional shocks.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF April 1947 16.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	05	08	16.9													iP	05	08	23				
	eS			39.9																				
	I Regional																							
16	iP	06	52	31.5				-	iP	06	52	30					iP	06	52	34				
	ipP			44					ipP			42					ipP			46				
	Trace Distant																							
16	eP	09	15	21.8														Trace						
	eS			42.8																				
	I Regional																							
16	iP	10	59	53.5				-	iP	10	59	55					iP	10	59	56				-
	I Distant																							
16	eP	15	15	46.5														Trace						
	eS		16	12.5																				
	I Regional																							
16, 17	3 Additional regional traces																							
17	eP	00	30	39.1													iP	00	30	55				
	iS		31	12.1													i			01.5				
	I Regional																II							
17	eP	06	22	12.9													iP	06	22	19				
	iS			36.9																				
	I Regional																							
17	iPe	07	59	40.3													iP	07	59	46.5				
	iS	08	00	04.1																				
	I Regional																							
17	eP	14	07	42.5													iP	14	07	46.5				
	eS		08	04.5																				
	I Regional																							

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
17						
17, 18						
18	iP	04 43 39.4				
	iS	44 03.4				
		I Regional				
18	iP	08 28 49.4				
	iS	29 13.4				
		I Regional				
18	iP	09 00 40.4				
	iS	01 03.4				
		I Regional				
18	eP	11 08 27				
		I Distant				
18	eP	12 06 00				
	eS	06 23				
		Trace Regional				
18						
18	eP	14 38 01				
		I Distant				
18						

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z

Pierce Ferry

Column reversed on this shock only.

iPE	16 18 46.5				
iPZ	47.6				
i	53.3				
eS	54.5				
eSZ	55.8				

Trace Local 41 Miles

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	21 11 51.5				
	I Regional				
	5 Additional traces regional				
iP	08 28 57				
iP	09 00 45.5				
	Trace				
	Trace				
iP	12 53 38				
	Trace Distant				
eP	14 38 04				

Overton

i	16 18.6				
	II Local, Beginning lost in Local Disturbance				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 194 7. 18.

Time used is GCT

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E	N	Z
19	i												iP	01 10 03				
19	iP	02 29 38.2											1P	02 29 47.8				
	iP	42.2												III				
	eS	30 08.2																
		III Regional																
19	eP	05 19 09											iP	05 19 19				-
	iP	12.5												II				
	eS	33																
		II Regional																
19	eP	06 55 25.8																
	eS	48.2																
		I Regional																
19	iP	07 22 42												Trace				
	iS	43.2																
		I Local																
19	eP	10 07 19.1											iP	10 07 23.5				
	eS	43.1																
		I Regional																
19													iP	17 11 05.5				
														Trace Distant				
19, 20		6 Traces Regional Shocks.																
20													i	00 40.2				
														Trace Local 20 Miles				
20													iP	05 08 12.5				
													ipP	46.5				
														I Distant				
20													iP	06 53 56.5				
														I Distant				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947

Time used is GCT

19.

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
20	iP	17 42 32.2							iP	17 42 38.5		
	iS	56							iP	44.5		
		I Regional							i	50		
									i	54		
									i	43 07.5		
									iS	15.5		
21	eP	02 28 04.0								Trace		
	eS	26.5										
		Trace Regional										
21	iP	03 05 27							iP	03 05 04.5		
	iS	50										
		I Regional										
21	iP	03 08 16							iP	03 08 25		
	iP	19.5							iP	31		
	eS	43.0								II		
		I Regional										
21	eP	06 09 50								Trace		
		Trace Regional, East of Borego Springs, Imperial Valley, California (P)										
6. 21	O	10 44 57.3										
	iP	45 00.0		+30 +20 -	iPg	10 45 07.6			iP	10 45 08.0		
	eS?	01.6			iSz	15			i	09.2		
	iS	01.9			iS	15.3			i	13.2		
	i	01.6				38 miles			iZ	14.7		
	i	04.8							iS	15.5		
	i	06.0							iS	15.8		
	i	15.0							i	18.3		
	i	23.0							i	20.5		
		8 Miles ENE							i	22.2		
									i	25.2		
									i	28.7		
		Epicenter in Kingman Wash 2 Miles ENE of Hoover Dam								39.5 Miles		

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947. 20.

Time used is ~~GCT~~

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
21	e	19	15	54				
	iP			59				
	eS		16	26				
	II Regional							
21	eP	19	22	46				
	eS		23.	10.5				
	II Regional							
21	iP	22	02	32				
	eS			55.5				
	I Regional							
22	iP	03	47	18				
	eS			42				
	I Regional							
22	iP	04	35	12				
	Trace Regional							
22								
22	iP	09	13	46				
	Trace Regional							
22	iP	09	17	46				
	eS		18	08				
	I Regional							
22	eP	09	30	38				
	Trace Regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	16	08				
iP	19	16	08				
iP	09	13	51				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	16	08.2		—	—	—
III							
iP	19	22	53.5				
iP			59.4				
i			09				
i			23				
II							
iP	22	02	38				
iP			44				
i			53				
eS		03	05				
iP	03	47	24.5				
iP			30.5				
i			38.5				
iS		48	02.5				
iP	04	58	44				
e	05	00	18				
Trace Far Regional							
iP	09	13	51.5				
iP	09	17	51				
Trace							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947, 21

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
22	i	11 35 41							iP	11 35 47		
		Trace Regional							iP	53.5		
									i	36 03		
									eS	24		
22									iP	21 33.1		
										I Local 5 Miles		
									i	21 33.6		
22, 23										5 Traces Aftershocks		
23	eP	02 35 37.4										
	iS	36 01.4										
		Trace Regional										
23	eP	03 29 13.4										
		Trace Regional										
23	eP	09 14 35.4										
		Trace Regional										
23	eP	10 03 10.5										
	iS	39.5										
		I Regional										
23	i	13 08 27.5										
	iP	09 10.5										
	iS	35.5										
		I Regional										
24	eP	17 16 06.1										
	eS	27.1										
		I Regional										
24	iP	19 46 52		+? ? +	eP	19 46 49						
	eS?	56 59				II				Beginning Obscurred by local disturbance		
		I Distant, CGS 8°N, 37.5°W(Atlantic Ocean 800 Miles off Northeast Coast of South America)										
		Q = 19 35.1 Δ = 4595 Miles										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF April 1947. 22.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	eP	08	17	21.5																				
	eS			43																				
	Trace Regional																							
25									eP	09	58	49												
25	eP	18	27	00.5																				
	eS			03																				
	I Local																							
25	iP	22	21	55.9					iP	22	21	46.6					iP	22	21	55				
	eN			03.6					Beginning in Doubt.								iS		22	02.6				
	eSN			04.4					II Local 5 Miles								i			04.4				
	iSE			04.6													i			05.2				
	South of Overton, May be Blast																Trace 36 Miles							
26	iP	08	11	45					iP	08	11	49		+	+	+	iP	08	11	48		+	+	+
	Trace Distant								I								I Distant, Compression from SW							
26	eP	10	38	48					iP	10	38	57					iP	10	38	53				
	eS		39	10																				
	Trace Regional																							
26																	iP	11	39	46				
																	eS		46	15				
																	Trace Distant							
26	e	13	03	08																				
	Trace Distant																							
26	eP	13	24	28					iP	13	24	31					iP	13	24	24				
	eS		31	18					eS		31	23					eS		30	51				
	I Distant																I Distant							
26	iP	20	23	13.8					iP	20	23	21					iP	20	23	21				
	iP			15.8					iP			26												
	iS			37.8																				
	I Regional 120 Miles																							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947. 23.

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
26					i	22 43.8 I Local 15? Miles						
27	e	08 06 14 Trace Distant			eP	08 06 10			eP	08 06 14.5 I		
27	iP iP iS	11 07 58.6 08 01.6 25.6 II Regional 135 Miles			iP iP i i	11 08 07.4 13 20 23.5			iP iP	11 08 07.5 13.3 II		
27	e	11 14 27 Trace Distant							eP	11 14 22 Trace		
27	eP	12 34 02 I Distant			iP ipP	12 34 05 18			iP	12 34 05.5 I		
27	i	15 11 24.5 Trace Regional										
27	iP iS	21 01 30.5 53.5 Trace Regional			iP iP	21 01 36.2 42			iP iP i i iS	21 01 36 42 49.5 02 15.5 I		
27	e	22 24 12 Trace Distant			eP	22 24 04.5			eP	22 24 09 Trace		
28	iP	13 50 36 I Distant		-	iP e	13 50 32 14 09 58			iP	13 50 34.5 i		
28	iP iS	13 54 42.2 55 05.5 I Regional			Beginning Obscurred				iP	13 54 48 I		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF April 194 7, 24.

Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
28	i	14	02	51.2				
	is		03	11.2				
		Trace Regional						
	0	22	55	33.0				
7 28	ix	22	55	39.9				
	is			44.7				
	is			45.5				
		25 Miles						
		Epicenter near apex Pass about 25 Miles N of Boulder City, May be Blast I Local 54 Miles						
29	eP	05	47	21				
		Trace Distant						
29	e	07	46	11				
	e		47	12				
	e		48	04				
		Trace Regional (Off Carpenteria, California)(P)						
29	iP	07	52	01.5				
		Trace Distant						
29	iP	08	09	55.5				
		Trace Distant						
29	iP	09	26	03				
		Trace Distant						
29	eP	11	09	04.6				
	is			27.6				
		Trace Regional						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	14	02	53.5				
iP	22	55	41.6				
i			46.7				
is			47.7				
i			52.2				
	30.5 Miles						
eP	05	47	20				
e	07	45	59				
i		46	22				
iP	07	52	04.8		-	-	-
iP	08	09	51.				
iP	09	26	06.4		-	-	-
iP	11	09	12				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	14	02	53.5				
eP			59.5				
	I						
iP	22	55	48.6				
e			57.1				
eS			58.1				
iS			58.4				
i			02.1				
Blast I Local 54 Miles							
e	05	47	19				
iP			28				
	Trace						
e	07	46	03				
i			23				
i		48	06				
iP	07	52	04.7				-
iP	08	09	53				
	I						
iP	09	26	06.4				-
iP	11	09	10				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF April 1947 25.
Time used is GCT

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
29	O	14 57 18.7										
	iP	22.9		+4 +6 -	eN	14 57 32.2			iP	14 57 30.1		+ ? +
	i	24.0			iSN	33.5			eS	37.9		
	iS	25.8			iSE	34.7			iS	38.6		
8.	iZ	27.0			31 Miles P lost in local disturbance				i	42.7		
	I Local 13 Miles NNE									41.5 Miles West		
	Epicenter in Callville Wash, 13 Miles NNE of Boulder City											
30	eP	04 55 41			iP	04 55 37			iP	04 55 42		
	I Distant								eS	05 04 40		
30	iP	14 13 05			iP	14 08.5			iP	14 13 05		
	Trace Distant					I				I		
30									eP?	17 25 36		
										Trace Distant		
30	iP	23 56 01.5			Lost in Local disturbance				iP	23 56 05		- -
May 1	e	00 00 59							i	57 02		
	iS	05 46.5							iS	00 05 53		
	Trace Distant											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . May 1947

The stations at Boulder City, Boulder Dam, Overton, and Pierce Ferry operated on routine schedules throughout May 1947.

In the following report symbol I represents shocks with small trace amplitude, 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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date May	G. C. T.	Location of Epicenters
9	11	21:43:35.9	7 miles NE Hoover Dam
10	12	00:59:30.2	7 miles NE Hoover Dam
11	19	04:42:34.4	4.3 miles ESE Boulder City
12	19	05:09:02.5	4.3 miles ESE Boulder City
13	22	18:39:07.6	10.5 miles SSW Boulder City

The following shocks were reported felt in the Lake Mead Region.

Ep. No.	Date	G. C. T.	Intensity Description
11	19	04:43	IV Local at Boulder City (Felt by several, rattled windows)
12	19	05:09	II Local at Boulder City (Felt by few)

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	iP	04	42	13						Lost							iP	04	42	18.1				
	i			16						in local							i			24.5				
	iS			16.5						disturbance							i			25.5				
	Trace local																iS			26.0				
																	i			30.0				
1	iP	04	44	24.5													iP	04	44	28.5				
	iS			46.7													eP			35				
	Trace regional																iS		45	05				
1	iP	04	40.1																					
	Trace local																							
2									eP	00	52	22					iP	00	52	19				
2	iP	01	36	45					eP	01	36	46					iP	01	36	41				
	I Distant																eSN		45	45				
																	eSE		46	00				
2	iP	02	26	21.5					iP	02	26	20.5					iP	02	26	24				
	I Distant								eS		32	09					i		32	07				
																	eS			20				
	CGS (54°N., 164°W. South of Unimak Island, Aleutian Islands)																							
	0 = 2:19.0 Δ = 2640 miles																							
2	iP	08	35	16.5					iP	08	35	15					iP	08	35	19				
	Trace distant								i		40	10												
									I															
2	eP	13	25	36					eP	13	25	38					iP	13	25	32				
	Trace distant								eS		31	50					eS		31	42				
3									iP	01	06	03					iP	01	06	08				
																		Trace distant						
3																	iP	03	46	30				
																	iS			53				
																		Trace regional, 100 miles						

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

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Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
3																	iP	04	06	10				
																		Trace distant						
3	iP	05	57	09.8														Trace						
	iS			11.0																				
	I Local, 6 miles																							
3																	iP	08	06	29				
																		I Local, 12 miles						
3	iP	09	47	38.5					iP	09	47	38					iP	09	47	41				
	i			50.5					i			51												
	I Distant								eS		57	20												
3	iP	14	49	00																				
	iS			00.8																				
	I Local																							
3	iP	20	46	08.6					0	20	45	56.6					iP	20	46	07.5				
	eS			17.8	- 40.5 miles				iP	20	45	59.3					eZ			14.9				
					Faint trace				iSE		46	00.9					eSEN			15.5				
									iSNZ			01.3					eENE			16.9				
									II Local, 3.7 miles SSW															
									(Probably a blast 3.7 miles SSW Overton station)															
3	i	21	12	13																				
	I Local, 5 miles																							
3	e	21	17	35													iP	21	14	49.2				
	Trace regional																e		17	21				
3	e	21	40	51													iP	21	38	14				
	Trace regional																e		40	15				
																	e			45				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is

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No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	iP	02	51	09					i	02	51	17.2					iP	02	51	18				
	iP			12.5					iP			19					iP			24				
	iS			35.5					iP			23					i			32.5				
		II Regional, 130 miles							i			34					iS			47.5				
		Aftershock Manix, Calif. earthquake							iS			49.5					iS			51				
		(P)							iS			54												
4	i	03	55	12					e	03	55	19					iP	03	55	17				
		Trace regional															eS			44				
																	eS			54				
4																	iP	14	33	54				
																		Trace distant						
5																	i	01		14.6				
																		Trace local, 10 miles						
5	eP	04	28	29					eP	04	28	31					eP	04	28	30				
		Trace distant																I						
5																	iP	16	27	38				
6	e	01	13	14													iP	01	13	12				
																	i			42				
																		I						
6	e	01	39	31																				
		Trace distant																						
6	iP	02	02	21.5													iP	02	02	23				
	iS			48.5													iP			28				
		I Regional															eS			58				
6	e	02	59	12													iP	02	58	41				
	e	03	00	35													eS	03	00	37				
		Trace distant															eS			54				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF

Time used is

M-1073-4

	BOULDER CITY							OVERTON							PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	i	08	46	23.5													iP	08	46	31				
	iS			54.5													i			39				
	I Regional, NW of Twentynine Palms, Calif. (P)																i			46				
																	iS		47	11				
6	i	11	42	36.4													iP	11	42	42				
	iS		43	00.4													i			48				
	Trace regional																i		43	11				
																	iS			19				
6	e	12	38	44													iP	12	38	48				
	Trace distant																							
6	i	13	52	43.4													iP	13	52	49.5				
	iS		53	08.4													i			56				
	Trace regional																iS		53	27				
6	iP	20	44	22					eP	20	44	17					iP	20	44	18				
	eS		55	02					iP			24					iP			24.5				
	I Distant																eS		54	58				
	CGS (7°S., 150°E. 200 miles off SE coast of New Guinea)																							
									0 = 20:30.7 Δ = 6770 miles															
6									i	22	03													
									II Local - blast ?															
7	iP	05	04	59													iP	05	05	04.8				
	iS		05	23													iP			08.3				
	I Regional, aftershock Manix, Calif. earthquake (P)																i			14.4				
																	i			19				
																	i			22				
																	i			33				
																	eS			39				
7	i	12	57	19													iP	12	57	28.5				
	iP			25													iP			38.5				
	eS		58	03													iP			42				
	I Regional, near Walker Pass, Calif. (P)																iS		58	22				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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and Coast and Geodetic Survey

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Time used is

M-1073-4

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
7	e	14 21 28							iP	14 21 31		
	e	22 01										
	e	25 17										
	Trace distant											
7	e	20 19 05							eP	20 18 14		
	Trace regional								iS	49		
8	e	07 10 01							iP	07 09 58		
	e	19										
	Trace distant											
8	e	07 22 02							iP	07 21 58		
	Trace distant											
8									i	09 50.5		
									Trace local, 5 miles			
9	eP	00 00 13							eP	00 00 09		
	e	13 46							eS	12.0		
	Trace distant											
	CGS (61°N., 139°W. O = 8 May, 23:52.8 Yukon Territory, NW Canada)											
9	iP	03 45 03.0										
	iS	04.5										
	I Local, 6 miles											
9	iP	07 09.9										
	Trace local											
9	iP	12 31 15.3										
	iS	16.5										
	I Local, 5 miles											
9	iP	13 38 51							iP	13 38 46		
	Trace distant								e	49 15		
									eS	52		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
9	eP	15 50 54.5							iP	15 50 48.5		
	eS	51 39.5							i	59		
	I Regional								eS	51 43		
10	e	00 18 06							iP	00 17 55		
	Trace distant								iP	18 08		
10	iP	03 32 34.1										
	iS	35.4										
	Trace local											
10	iP	03 44 31.7										
	iS	32.4										
	I Local											
10	iP	11 06 34							iP	11 06 39.5		
	iS	57.5							eS	07 17		
	I Regional											
10									iP	23 33 38		
									iP	38.6		
									eS	34 00		
									iS	01.5		
									Trace regional			
11									iP	01 37 19.5		
									Trace distant			
11	iP	05 06 55		-44-138-382	iP	05 07 03.5			iP	05 07 02		≠ ≠ ≠
	i	59			iP	10			iP	08.5		-125-150 -
	iS	07 24			i	44			i?	42		
	III Regional, dilatation from SSW (34°14'N., 116°20'W. NW Twentynine Palms, Calif. (P)				0 = 05:06:20, Magnitude 4.9							
11	iP	06 21 47.4			iP	06 21 54			iP	06 21 52		
	iS	22 12.4							iP	59.5		
	I Regional								i	22 08		
									i	22		
									iS	30		

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
11	iP	10	17	40.3																				
	iS			41.6																				
	Trace local																							
11																	iP	10	38	04.5				
																	iP			10				
																	iS			40.5				
																	Trace regional							
11																	i	16	25.3					
																	Trace local, 8 miles							
11	iP	21	41	41.3													i	21	41	23.5				
																	iP			30				
																	i			52.5				
																	iS		42	00.5				
11	0	21	43	35.9																				
	iP	21	43	39.6		≠27	≠30	-									iP	21	43	45.8				
	iZ			41.9													i			47.8				
(9)	iSEN			42.3													e			50.3				
	iS			44.8													i			51.8				
	I Local, epicenter 7 miles NE Hoover Dam																e			52.3				
																	iS			52.9				
12	0	00	59	30.2																				
	iP	00	59	33.9		≠60	≠65	-	iP	00	59	39.1					iP	00	59	40.1				
(10)	i			35.6					i			39.5					i			46.1				
	i			36.1					i			42.6					iSE			46.5				
	iS			36.6					iZE			44.4					iS			47.1				
	I Local, 12.1 miles									32.6 miles								36.5 miles						
	Epicenter 7 miles NE Hoover Dam																							
13																	iP	00	30	26				
																	iS		31	00				
14	iP	02	20	50					eP	02	20	52					iP	02	20	53				
	Trace distant																							
14	iP	06	10.9																					
	Trace local																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

No. / Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	eP	10	48	17.8													iP	10	48	00				
	Trace regional																i			05				
																	i			13				
																	eS			37½				
15	eP	17	18	47													i	17	18	52				
	iS		19	10.6													iP		19	00				
	i			17.1													i			22				
	I Regional, aftershock of Manix, Calif. earthquake (P)																iS			29				
15	iP	21	35	56.0																				
	iS			57.0																				
	I Local, 3 miles																							
15																	iP	22	22	27.5				
																	i		25	55				
																	Trace distant							
16	e	05	58	48					i	05	58	55					iP	05	58	48				
	e	06	00	56													i	06	00	28				
	e		01	30																				
	Trace regional																							
16	e	06	31	06					iP	06	31	14					iP	06	31	07				
	e		33	04														I						
	Trace regional																							
16	e	07	12	50					iP	07	12	58					iP	07	12	51				
	e		13	34														I						
	e		15	14																				
	I Distant																							
16	e	10	45	19													iP	10	45	21				
	e		47	45														I						
	Trace regional																							
16	e	11	01	01					iP	11	01	02					iP	11	00	55				
	e		03	06														I						
	Trace regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	22	08	18													iP	22	08	14				
		Trace distant																						
16	iP	22	13	04.2																				
	iS			05.2																				
		Trace local																						
17	iP	07	19	25					iP	07	19	27					iP	07	19	28				
	eP		20	07																				
	e		24	15																				
	eG			54.1																				
	I Distant				CGS (37.5°S., 180°, off NE coast North Island, New Zealand)																			
										0 = 07:06.7														
17	e	10	00	22													eP	09	58	10				
																		Trace regional						
17	e	10	22	07													eP	10	20	21				
		Trace regional																						
17	e	10	39	08													iP	10	37	06				
		Trace regional																						
17	e	13	05	35													eP	13	03	23				
		Trace regional																						
17																	iP	16	46	02				
																		Trace regional						
17	e	21	09	31													iP	21	07	28.5				
		Trace distant															i		09	52.5				
17	eP	21	33	39.5																				
		Trace distant																						
18	e	00	26	59													iP	00	26	45				
	i		28	06														I						
	Trace regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
18	iP	01	25	55				
		Trace distant						
18	i	01	43	36				
	e		45	27				
	e			49				
	i		56	26				
	I Regional							
18	iP	05	07	04				
	Trace distant							
18	e	12	24	37				
	Trace distant							
18	iP	12	38	40.1				
	iS		39	05.1				
	I Regional, 125 miles							
	Aftershock of Manix, Calif. earthquake (P)							
19	0	04	42	34.4				
(11)	iP	04	42	36.3		-475	+283	+
	iS			37.6				
	i			38.1				
	III Local, epicenter 4.3 miles ESE Boulder City. Felt in Boulder City.							
19	iP	04	59	57.5				
	iS			58.5				
	Trace local							
19	0	05	09	02.5				
(12)	iP	05	09	04.3		-80	+50	+
	iS			05.6				
	II Local, aftershock, 4.3 miles ESE Boulder City. Felt in Boulder City							

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	iP	01	25	58				
	i	01	43	39				
	i	05	07	04				
	e	12	38	50				
	eP			53				
	eS		39	23				
	iP	04	42	47.2				
	iZ			55.1				
	iS			55.5				
	II 43.5 miles Hoover Dam							
	eP	05	09	04.3				
	iS			05.3				
	4 miles							

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	iP	01	25	57				
	I Distant							
	iP	01	43	36				
	I			.				
	iP	05	07	06				
	iP	12	38	46.3				
	e			52				
	eS		39	21				
	iP	04	42	46.2				
	i			53.0				
	iS			54.6				
	II 43.5 miles Hoover Dam							
	iP	04	42	36.1				
	iS			37.4				
	4.2 miles							
	iP	05	09	14.2				
	i			21.2				
	iS			22.7				
	43.5 miles							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
19	iP	05	10	32.3														Trace						
	iS			33.6																				
	I Local																							
19	iP	05	29	03.5					e	05	29	11					iP	05	29	09				
	iS			53.5					iP			23					eS		30	03				
	I Regional								iS		30	14												
19	iP	05	33	11.3																				
	iS			12.7																				
	I Local																							
19	iP	07	53	34.5					eP	07	53	41					iP	07	53	40				
	iS			57.5					eP			45					iP			46				
	Trace regional								eS		54	18					eS		54	16				
19	eP	12	53	46.5					eP	12	53	50					eP	12	53	43				
	Trace distant																							
19	iP	21	53	21.5													iP	21	53	25				
																		Trace distant						
20	iP	20	07	09													iP	20	07	11.5				
																		Trace distant						
20	iP	20	52	18													iP	20	52	19				
	Trace																	I Distant						
21	e	05	18	44													iP	05	18	09				
	Trace regional																eP			18.5				
																	eS		19	02				
22	iP	04	40	17.8		-?	-?	+	iP	04	40	32					iP	04	40	27.5				
	iP			21.0					eS		41	03					iP			32				
	ISE			44.8													eS		41	00				
	II Regional, 135 miles. Aftershock Manix, Calif. earthquake (P)																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

BOULDER CITY

OVERTON

PIERCE FERRY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
22	iP	08 43.8											e	08 45.2				
		Trace regional																
22													eP	11 16 19				
22	iP	17 20 20											iP	17 20 24				
														I Distant				
22	iP	18 39 11.0		+10	+20	+62	iE	18 39 22.9					iP	18 39 21.8				
	iS	13.4					iP	24.6					e	30.6				
(13)		II Local					BSN	33.9					iSZ	31.4				
		0 = 18:39:07.6 Epicenter					iSE	34.6						53.2 miles				
		10.5 miles SSW Boulder City					iN	37										
							iE	39.5										
								54 miles										
22	iP	22 52 10											iP	22 51 18.5				
													iP	52 11				
														Trace regional ?				
23	iP	05 12 44											eP	05 12 40				
														Trace distant				
23	eP	11 59 14.5											i	11 59 12				
	eS?	58											iP	15				
		Trace regional (33°07'N., 116°25'W., east of Julian) (P)											eP	22.5				
													eS	12 00 05				
24													iP	00 29 38.5				
														Trace distant				
24	eP	10 10 17.5											iP	10 10 33.2				
	eS	41											iP	39.2				
		I Regional											iS	11 00.5				
24	iP	18 18 20											iP	18 18 15				
	e	19 20											eS	25 30				
	eS	25 52																
	eS?	26 16																
		I Distant																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	iP	01	44	38.7		-50	+30	+										Trace						
	iS			39.9																				
	I Local, 6 miles ESE																							
25																	iP	03	04	08				
																		Trace distant						
25	eP	16	02	38													eP	16	02	41				
	Trace distant																							
26	iP	00	12	43													iP	00	12	39				
	i			58.5													i			54				
	i		13	17.5													i		13	09				
	eS?		22	39.5													e		21	56				
	I Distant																eS		22	39				
26																	i	00	23	08				
																	i		24	03				
																	Trace regional							
																	Near Walker Pass, Calif. (P)							
26	iP	02	14.8																					
	Trace local																							
26	iP	06	05	55													iP	06	05	51				
	Trace distant																		06	26				
26	iP	06	14	10.5													iP	06	15	16				
	iS			34.5													iP			22				
	I Regional																eS			54				
	Aftershock of Manix, Calif. earthquake (P)																							
26	iP	06	26	23													iP	06	26	19				
	e		27	00																				
	Trace distant																							
26	e	10	09	55													e?	10	07	21				
	Trace distant																eP			28				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF May 194

Time used is

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	e	11	10	48													eP	11	10	46				
	Trace distant																							
26	iP	13	11	31													iP	13	11	33				+
	Trace distant																I							
26																	eP	17	46	16				
																	i			10				
																	Trace regional							
26																	iP	19	53	16.5				
																	i			26				
																	iS	20	03	03				
																	iS			33				
26	iP	19	54	36													iP	19	54	42.3				
	iS		55	00													iP			48.3				
	I Regional, 120 miles. Aftershock of Manix, Calif. earthquake (P)																iS		55	11				
																	iS			19				
																		II	SW					
27	e	03	53	40																				
	Trace distant																							
27	eP	06	13	14													eP	06	13	15				
	eP'		17	42													eP'		17	34				
	I Distant, beginning gradual																iP'			50				
	OGS (2°S., 141°E., off north coast of New Guinea)																Coda				17			
	0 = 05:59.2 = 11,410 km.																							
27	iP	10	27	11.4																				
	iS			12.4																				
	I Local																							
27	iP	10	29.4																					
	Trace local																							
27	eP	21	00	56													iP	21	01	01				
	e		03	44																				
	I Far regional, felt in Humboldt County, Calif.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF May 194 7

Time used is

M-1073-1

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
28	iP	15	00	35.5													iP	15	00	38.5				
	i			45													i			56				
	I Distant																i		03	33				
																	Compression from SW							
28																	iP	16	35	14.5				
																	iP			20.5				
																	eS			52				
																	Trace regional							
28	iP	18	36	49.8		-30	+23	+																
	iS			51.0													Trace							
	I Local, 6 miles																							
28																	iP	21	37	49				
																	Trace regional							
29	e	00	35	13													eP?	00	35	11				
	Trace distant																							
29																	iP	01	40	12				
																	Trace distant							
29																	iP	03	27	57				
																	i		28	33				
																	Trace regional ?							
29	e	03	58	50.5													eP	03	55	25				
29									i	09	34	17					e	09	34	23				
																	Sinusoidal waves lasting 4 min.							
29	e	11	13	04													iP	11	13	07				
	i			17																				
	Trace distant																							
31	eP	15	34	13.8													eP	15	34	20				
	eS			35.8													eP			27				
	Trace regional																eS			50				
																	Trace							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . June 1947

The stations at Boulder City, Boulder Dam, Overton, and Pierce Ferry operated on routine schedules throughout June 1947.

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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date June	G. C. T.	Location of Epicenters
14	6	16:58:09.2	2.5 miles S of Boulder City
15	9	07:26:25.4	2.5 miles SSE Boulder City (Near that of No. 14)
16	13	23:08:04.5	3 miles S of Boulder City
17	17	14:28:02.1	25 miles S of Hoover Dam
18	19	20:07:39.6	3.5 miles NNE of Boulder City
19	21	21:57:15.4	4 miles E of N Boulder City in mountains back of boat landing.
20	22	01:14:35.3	4 miles N Boulder City
21	22	11:00:34.6	3 miles SSE of Boulder City
22	23	17:00:43.1	4.2 miles ESE Boulder City - Same as No. 11

The following shocks were reported felt in the Lake Mead Region

Ep.No.	Date	G. C. T.	Intensity Description
17	17	14:28	II Local at Boulder City (Felt by few)
	20	03:02:21	II Local at Boulder City (Felt by few)
	20	03:06:12	II Local at Boulder City (Felt by few)
	20	03:16:24	II Local at Boulder City (Felt by few)

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF June 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	iP	03	58	06													iP	03	58	10.5				-
																		Trace Distant						
1	iP	04	22	03													iP	04	22	07				-
																		Trace Distant						
1	eP	04	52	14													iP	04	52	19.5				
																		Trace Distant						
1	iP	07	48	10													eP	07	48	13				
																		Trace Distant						
1	i	12	17.9															Trace						
		I Local 6 mi																						
1	i	12	22.9															Trace						
		I Local 6 mi																						
1	iP	22	25	17.3		-48	+30	+										Trace						
	iN			18.3																				
	iSEZ			18.5																				
	II Local 3.5 mi ESE																							
1																	i	15	23.5					
																		I Local 5 mi						
1																	i	15	43.5					
																		I Local 5 mi						
1	iP	22	30	16													iP	22	30	13				
	Trace Distant																							
	USSR: 39°N. 90°E; 55 KM deep																							
1-2	3	Traces Local 6 mi																						
2	e	01	01	55													e	01	01	53				
	Trace Distant																							

International Seismological Centre

M-1073-4

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF June 194 7 2

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Nov. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
2	e	06 54 27													eP	01 54 27					
	e	33													eP	33					
		Trace Distant													e	58 48					
2															iP	14 16 37					
																I Distant					
																Near Apia, Samoian Islands,					
																South Pacific (Pasadena)					
2	i	15 17.8																			
		I Local 5 mi																			
3	eP	04 59 12													eP	04 59 09					
		I Distant																			
3															i	07 11.0					
																I Local 5 mi					
3	iP	16 20 21													iP	16 20 28.6					
	iP	26.2													iP	35.8					
	i	45													iS	21 14					
	eS	57														I Regional					
		(P) 34°00'N. 116°31'W (Near Morongo Valley, Calif.)																			
4	iP?	06 43 05													eP	06 43 10.5					
	i	07													iP	17.5					
	iS	28													i	48					
		Trace Regional													iS	50					
4	iP	08 26 47		-35	+50	+															
	iS?	47.4																			
	iS	48.4																			
	i	27 21.9																			
		II Local 2 mi SE																			
4	i	14 10.7																			
		I Local 5 mi																			
4	eP	14 16 38													eP	14 16 40					
		Trace Distant														I					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF June 194 7 3

Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	eP	21	31	39.5													iP	21	31	49.3				
	i			44													iP			54.6				
	eS		32	06													i		32	04				
	Trace Regional																iS			27				
	Aftershock Manix, Calif. earthquake(P)																		I					
4																	iP	22	21	40				
																	iP			46				
																	eS		22	17				
																	Trace Regional							
5	e?	02	47	01													eP	02	47	02				
	e?			08																				
	eP			15																				
	Trace Regional																							
5	eP	12	09	00													eP	12	09	04				
	e			14													eP			18				
	Trace Distant																							
	Strasbourg: 15°S, 166°E; 0 = 11:56.0																							
5	i	17	19.1																					
	Trace Local 6 mi																							
5									i	16	00													
										II Local 4 mi														
5	i	22	44	44.7													iP	22	44	52.1				
	Trace Local ?																eS		45	02.3				
5	eP	23	04	34	3												eP	23	04	30				
	iP			37	1.5												i		07	23				
	i		07	25	1.5												i		11	04				
	i		11	06	1.5												e		14	35				
	eS		15	00													eS			57				
	e 14																							
	I Distant																							
	CGS 14°N, 90°W (Near coast of El Salvador) 0 = 22:58.2																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF June 1947 4

Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	iP	14	51	06.2					Poor Time Control								iP	14	50	59		0	+	-
	iP			06.8					iZ	14	51	00					iP		51	00.6				
	i			11					iE			01					iSE			07.5				
	iZ			16.1					iS			07.5					iSZ			08.0				
	eZ			19.6							II						i			12.0				
	iS			20.4							33.5 mi?								44.5 mi					
	iEN			20.8															I Local					
	Trace ca 73 mi																							
	Near Mt. Bangs																							
6	iP	16	39	01													iP	16	39	07				
	i			22.8													iP			13				
	iS			24.5													iS			44.5				
	I Regional																		I					
14 6	0	16	58	9.2		-120	*	+		Hoover Dam							iP	16	58	22.1				+
	iP			10.6					iP	16	58	11.3					iE			23.1				
	iS			11.6					i			12.0					iE			26.2				
	i			16					eS			12.8					iZN			29.7				
	i			20							6 mi						i			30.9				
	i			23.5													iSEN			31.5				
	*Direction unknown - off record																i			36.2				
	Epicenter 2.5 mi S of Boulder City																		I Local	48 mi				
	III Local																							
7	iP	14	39	43.2			-										iP	14	39	50.5				
	i			48.4													iP			57.5				
	i			49.7													i		40	34				
	e		40	22															Trace Regional					
	Trace Regional?																							
	Near Morongo Valley, Calif. (E)																							
7	e	19	05	20													eP?	19	00	11.5				
	Trace Distant																e		05	24				
	CGS 11°N, 127°E (Near Samar, Philippine Is.) O = 18:47.9																i		06	35				

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MONTH OF June 194 7 5

Time used is GCT

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No.	Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	7							i	17 00 II Local 10 mi										
	7-8	5	Traces Local shocks ca 7 mi																
	8	i i	09 02 36.5 59																
			Faint Trace Regional												Faint Trace				
	9	e	06 21 03																
			Faint Trace Distant											e	06 21 10 Trace				
	9	0 iP iS	07 26 25.4 26.8 27.8		-15	+35	+							iS iS	07 26 47.1 47.6				
15			II Local 2.5 mi SSE Boulder City Epicenter near that of No. 14												47.2 mi				
	9-10	2	Traces Local 5 mi																
	10	eP eS	05 20 00.5 24											iP iP eS	05 20 06.5 12.5 44				
			Trace Regional												I				
	10	eP i	07 56 41 58 41											iP i	07 56 44 58 42				
			Trace Distant Tonga Region; Depth about 550 KM (Pasadena)																
	10	iP	19 51 20		+	+	-		Shasta				-	iP	19 51 16	1.5	+	+	-
			Dilatation from ENE					iP	19 51 34										
									Tucson										
								iP	19 51 13.3										
	10-11	4	Traces Local 5 mi																
	11	iP i	02 38 00 28				-							iP i	02 37 57.7 26.5		+	+?	-
			Trace Distant																

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Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF June 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY							
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
11	i	08 59.7																			
		I Local 5 mi																			
11	i	16 52.1																			
		I Local 7 mi																			
11	iP	17 06.0		+		-															
		II Local 5 mi																			
11-12	3	Traces Local	7 mi																		
12	eP	09 17 07	1.5												eP	09 17 09					
	i	20 53													i	21 05	1.2				
	i	21 05	1.3												i	31 53					
	i	31 53	1.5												i	32 02	1.1				
		I Distant																			
		CGS 1°N, 127°E (Near Gilolo Islands) O = 9:02.4																			
12	i	10 09.0																			
		I Local 7 mi																			
12	i	11 45.9				+															
		I Local 7 mi																			
12								i	20 45												
									I Local												
12-13	5	Traces Local	ca 6 mi																		
13	iP	20 37 27	2.0												iP	20 37 50			-	+	-
	i	42 18													iPP	41 55					
	eS	47 52													eS	47 52					
	e	21 07 00	2.0												i	21 06 58					
	e	24 07	2.0												e	24 14					
	Coda		16																		
		II Distant																			
		CGS 19°N, 146°E (400 mi N of Guam) O = 20:24.7																			

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
13	iP	21 13 10							iP	21 13 12		
		I Distant - probably aftershock										
13	0	21 17 58.9							i	21 18 09.4		
	iP	18 02.5							i	16.5		
	i	04.2							iSE	16.8		
	iS	05.0							i	17.5		
	iS	05.4								38.5 mi		
		Trace Local 11 mi										
		Probably S shore Lake Mead - 11 mi NE Boulder City										
13	0	23 08 04.5							iP	23 08 17.5		+ +
	iP	06.0		-38 +104 +					i	18.6		
	iS	07.1							i	21.4		
16	iE	10.5							i	22.0		
	iE	14.2							i	25.2		
	iZ	16.0							i	26.1		
		II Local							iS	26.9		
		3 mi S of Boulder City							iS	29.2		
									i	31.9		
										48 mi		
13-14	5	Traces Local ca 6 mi										
14	eP	00 02 55							eP	00 02 57		
	eS	13 22							iP	03 09		
		I Distant							eS	13 27		
		Aftershock - CGS 19°N, 146°E: 0 = 23:50.3										
14	iP	00 43 23		- -					iP	00 43 25.5		- + -
		I Distant							eS	53 44		
		Aftershock - USSR: 21.0°N, 146.5°E: Strasbourg: 0 = 00:30.8								I Distant		
14									e	00 53 00		
									eP	56 38		
										Trace Distant		

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF June 1947 — 8

Time used is GCT

M-1073-4

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
14	iP	02 13 20													iP	02 13 23					
		Trace Distant Aftershock (Pasadena)																			
14	eP	04 09 41													eP	04 09 44					
		Trace Distant Aftershock (Pasadena)																			
14	eP	05 34 44													iP	05 34 47					
		Trace Distant Aftershock (Pasadena)																			
14	eP	06 59 49													iP	06 59 53					
		Trace Distant Aftershock-USSR: 23°N, 150°E																			
14															eP	07 23 17					
																Trace Distant					
14	e?	07 34 48													iP	07 34 54					
	iP	51													i	37 53					
		Trace Distant USSR: 21.0°N, 145.5°E																			
14	eP	09 22 27													eP	09 22 31					
		Trace Distant Aftershock (Pasadena)																			
14	iP	11 14 23																			
		Trace Distant Aftershock (Pasadena)																			
14	eP	11 42 44													eP	11 42 44					
		Trace Distant																			
14	iP	13 09 49													iP	13 09 52					
		Trace Distant Aftershock (Pasadena)														Trace Distant					

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is GCT

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Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
14	iP	14 42 33											iP	14 42 36				
		Trace Distant																
		Aftershock (Pasadena)																
14	iP	16 42 43				+							iP	16 42 46				+
		I Distant											eS	53 11				
		USSR: 20.5°N. 146.0°E: Strasbourg: 0 = 16:30:09																
15													eP	05 28 35				
														Trace Distant				
15	i	06 10.0																
		I Local 5 mi																
15	eP	10 25 45.4											iP	10 25 50.5				
	eS	26 08											i	59				
		Trace Regional											eS	30				
15	eP	11 17 06											eP	11 17 11				
		Trace Distant																
15	eP	20 34 11											eP	20 34 13				
		Trace Distant											e	38 46				
		Aftershock-USSR: 20.5°N, 145.0°E; Strasbourg: 0 = 20:21.6																
15													i	20 41 09				
														Trace Distant				
16													eP	00 36 57				
													e	37 11				
														Trace Distant				
16	iP	18 35 12 .8				+							iP	18 35 15.5 0.9		+	+	+
		I Distant												Sinusoidal waves with 15 sec				
		Sharp impulse												beats. Compression from SW				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF June 1947 10

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
To Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	e?	21	24	16													eP	21	24	22				
	eP			22													i			29				
	Trace Distant																							
16-17	4	Traces Local ca 5 mi																						
17	e	01	12	16													e	01	12	20				
	eP			21													eP			24				
	Trace Distant																							
	Strasbourg: 23°S. 170°E; 0 = 00:59.2																							
17	iP	07	53.3			-22		+																
	I Local 5 mi																							
17	iP	12	34	17													iP	12	34	21		+?	+	+
	iP			45													ipP			49				
	Trace Distant - Compression from SW																							
17																	eP	13	59	33				
																	Trace Distant							
																	Strasbourg: 06.5°S. 150.5°E							
																	0 = 13:45.9							
17 17	0	14	28	02.1					i	14	28	13					eP	14	28	13.5				
	iP			04.2		-40	+6	+	i			15					iE			13.9				
	iS			05.7					i			21					iZE			15.8				
	iE			08.7					eSN			21.5					iZ			18.4				
	iE			11.5					iSEZ			22					i			21.2				
	iE			14.3						Trace							iSEN			21.7				
	II Local 5.3 mi E									42? mi							iSE			21.9				
	Epicenter in Colorado Canyon																i			24.1				
	25 mi S of Hoover Dam									Hoover Dam							iN			26.1				
									iP	14	28	3.2							I				
									iS			3.7							42.1 mi				
									iS			4.3											
										2+ mi														

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

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	BOULDER CITY							OVERTON							PIERCE FERRY						
1947 Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17																	1P	20	45	23.5				-
																		Trace Distant						
17	iP	23	33	22													1P	23	33	28				
	iP			27													eP			35.5				
	eS			57													eS		34	10				
	I Regional																							
	(P) 33°52'N, 116°31'W (Near Garnet, Calif.)																							
17	eP	23	58	16													1P	23	58	19				
	Trace Distant																							
17-18	2	Traces Local 5 mi																						
18	e?	07	52	32														Trace						
	e		53	25																				
	Trace Regional																							
18	e	11	05	21													eP	11	05	24				
	Trace Distant																							
19	eP	02	27	07													eP	02	27	08				
	Trace Distant																							
	USSR: 20.5°N, 145°E; Strasbourg: 0 = 02:14.6																							
19	eP	06	51	21													iP	06	51	24				
	Trace Distant																							
19	iP	07	47	13			-										iP	07	47	16		-	+?	-
	eS		57	33													eS		57	34				
	I Distant																							
	Dilatation from the West																							
	CGS 22°N, 146°E (600 mi N of Guam) 0 = 7:34.6																							
19	e	10	28	00													eP	10	28	05				
	eP			15																				
	Trace Distant																							

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MONTH OF June 1947 12

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
19									eP	11 41 33 Trace Distant		
19	eP	11 51 48 Trace Distant							eP	11 51 52 Trace		
19									iP	15 57 20.5 Trace Regional ?		+
19	iP iP i i i iS i	19 03 18.8 21.9 32 35.8 41.5 43.6 46.3			iP eS	19 03 30 58			iP iP i i eS iS	19 03 25 30 40 54 04 00 02		+ -
	II Regional Aftershock Manix, Calif. earthquake (P)											
18 19	0 iP iS i iZN iE	20 07 39.6 41.4 42.7 48.3 51.3 53.5		-6 -20 +440	Exact time doubtful iP i iS Δ = 41 mi	20 07 50.8 57.5 58.4		+ + +	iP iZ iZ iSN iSEN iN	20 07 51.7 55.0 59.8 08 00.0 00.6 04 45 mi II		+15 +5 +
	III Local Epicenter 3.5 mi NNE of Boulder City											
19	iP	22 54 09.5 I Distant							iP	22 54 08		+10 -12 -
19-20	21	Traces Local shocks - ca 5 mi										
20	iP	03 02 18.5 II Local 2 mi N		-32 +140 +								
20	iP	03 05 35.3 II Local 2 mi N		-5 +27 +								

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Time used is GCT

BOULDER CITY

OVERTON

PIERCE FERRY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
20	iP	03 06 09.2																
		II Local ca 2 mi																
20	iP	03 16 21.3																
		II Local ca 2 mi																
20	iS	03 16 25																
		II Local - This is a separate shock																
20	iP	03 32 07.2																
	iS	08																
		I Local ca 4 mi																
20	iP	06 17 17		+12	+15	+												
	iS	18.3																
	iZ	21.7																
		II Local ca 4 mi																
													iP	13 44 21				
20	iP	13 44 12																
	eP	25																
		Trace Distant																
		Strasbourg: 28°N, 43.5°W; 0 = 13:34.3																
20	e	22 41 52																
	iP	42 04																
	iP	12																
		I Distant																
20-21	6	Traces Local - ca 6 mi																
21	iP	03 42 16.9		-15	-35	+												
	iS	18.1																
		I Local 3.7 mi NNE																
		Probably aftershock of No. 18																

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MONTH OF June 194 7 14

Time used is GCT

No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	21	iP	08	10	42.5													iP	08	10	46		-	-	-
		i			49													i			52				
		i		11	01													i			56				
		eS			41													e		12	02				
		i			46																				
		e			51																				
		eS			59																				
		I Regional																							
		(P) 32.0°N. 115°W (Near Laguna Salader, Lower Calif.) Mag. = 4.8																							
	21																	iP	17	25	41				
																			Trace Distant							
	21																	iP	18	24	08				
																			Trace Distant							
19	21	iP	21	57	15.4		-5	-38	+									iP	21	57	25.9				
		iS			16.7													iN			26.3				
		iZ			21													i			29.0				
		iN			29													e			32.5				
		II Local 4 mi N by E																eSZ			34.0				
		Epicenter 4 mi E of N Boulder City																iN			34.5				
		in Mountains back of boat landing																iSE			35.0				
																		iN			39.0				
	22	i	00	23	11													eP	00	23	01				
		Trace Distant?																	Trace Distant?							
20	22	iP	01	14	35.3		-	-15	+									iP	01	14	45.9				+
		iS			36.6													eZ			53.5				
		I Local																iS			55.0				
		Epicenter 4 mi N Boulder City																iN			58.9				
																			46 mi							
	22	iP	01	24	48													iP	01	24	52				-
		iP		25	02													iP			07				
		I Distant																							
		(P) Near Apia, Samoian Is., South Pacific																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF June 1947

Time used is GCT

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No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
22	iP	11 00 34.6		-64 +80 +					iP?	11 00 44.7		+
21	iS	35.7							iP	45.6		
	iE	40.3							eS	54.2		
		II Local 3 mi							iSN	54.5		
		Epicenter 3 mi SSE of Boulder City							iSZ	55.2		
									i	01 04		
										Trace - 46.5 mi		
22	i	11 07.7										
		Trace Local ca 4 mi										
22	iP	11 48 35							iP	11 48 32		
	e	56 40							e	56 35		
	iS	57							eSE	48		
		I Distant							iSN	57 06		
22	iP	18 13 58							eP	18 14 00		
	iP	14 07							iP	10		
		I Distant										
22	eP	23 05 14							eP	23 05 17		
		Trace Distant										
22	iP	23 30 57							iP	23 31 06		- -
	iZE	31 07							i	12		
	iPZ	09							i	13.5		
	i	32 00							iP	32 3.3		
	eS	08										
		II Regional										
		Felt in the San Francisco and Monterey Bay Area. Windows broken at Santa Cruz										
23	eP	00 07 46							eP	00 07 50		
		Trace Distant										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

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Time used is GCT

M-1073-4

No. Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
23	0	00	08	37.6													iP	00	08	49.4				
	iP			40.6		+6	+6	-									i			51.9				
	iS			42.7													i			53.4				
	i			46.0													i			56				
	i			52.3													iS			57.6				
		I Local - 8.5 mi NE															iSZ			57.8				
																	i			58.9				
																			43.5 mi					
23	eP	15	44	50.2					iP	15	44	41.0		-5	+20	+	iP	15	44	49.2				+
	e			58.2					iS			43					i			56.9				
	iS			58.7						II Blast?							i			57.5				
										3.8 mi S if blast							iZN			58.9				
		Faint Trace 40 mi															i		45	00.5				
		Probably a blast 3.8 mi S of Overton. If a blast,															i			04				
		estimated location 36° 28.9'N; 114°, 28.3'W or NE¼																						
		SW¼ Sect 2 T17S R67E MD B&M																	35.8 mi					
23	iP	16	06	05													iP	16	06	14				
	iP			11.													i			20				
	eS			43													i			23				
		I Regional															i			27				
		Near Cajon Pass, Calif. (P)															eS			59				
23	0	17	00	43.1						Hoover Dam							eP	17	00	54.9				
	iP			44.9		-30	+25	+	iS	17	00	46					e			56.1				
	iS			46.2						4 mi							i		01	02.1				
22	iEN			47.4													iSEN			03.6				
	iE			49													iS			04.1				
	iEN			51.2													iZ			06				
	iZ			53.2													iZ			07				
	iEN			55.7													iEN			08				
		II Local																	43.5 mi					
		Epicenter 4.2 mi ESE Boulder City - Same as No. 11																						
23	i	17	41.3																					
		Trace Local 6 mi																						

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	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24																	eP	01	51	51				
																	Trace Distant							
24																	eP	02	22	22				
																	Trace Distant							
																	(P) Marianas							
24																	iP	02	51	38				
																	Trace Distant							
24																	iP	11	04	52				
																	Trace Distant							
24-25	2	Traces Local			ca 5 mi																			
25																	iP	03	54	07.5				
																	Trace Distant							
25																	iP	12	31	31.5				
																	iP			41.5				
																	eS		32	25				
																	Trace Regional							
																	Near Riverside, Calif. (P)							
25	iP	16	49	13													iP	16	49	05.5				
	iP			22.5													iP			20.5				
	iP			30													iP			27				
	Trace Distant																							
25	e	18	42	07													iP	18	41	07				
	Faint Trace																iP?		42	34				
	Felt slightly near Carpenteria, Calif. (P)																							
25	e?	20	56	54													iP	20	56	34.5				
	e		57	06													iP		57	03				
	i			30													e		58	20				
	Faint Trace																Trace Regional							
	Felt near Carpenteria, Calif. (P)																							

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Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	iP	22	56	10.5													iP	22	56	06.5				
	I Distant																							
26	i	00	16.3																					
	Trace Local 3 mi																							
26									i	20	41.8													
									I Local ca 5 mi															
27	0	11	37	21					i	11	37	46					eE?	11	37	50.0				
	iP			37.9				-	i			49					eP			50.8				
	i			39					i		38	04					i			53.4				
	i			45.5					i			05					i			58				
	iN			50					i			09					i		38	03.7				
	iSNE			51							96 mi						i			09.4				
	i			54													i			11.4				
	i			56.5													iS			12.2				
	I Regional																i			15.4				
	Epicenter North of Kingston Peak near Calif. NW border - 64 mi W																i			18				
																	i			27				
																		I Regional 112 mi						
27	iP	17	08	36.0		-?	-12	+																
	iS			37.2																				
	i			40.6																				
	i			43.6																				
	i			46.0																				
	II Local 4 mi N																							
27	iP	21	32	50.9		-15	+40	+																
	iS			51.9																				
	I Local																							
28	iP	00	57	19.8		-15	+40	+																
	iS			21.0																				
	iE			26.0																				
	iE			30.0																				
	I Local																							

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
28								i	18.3												
									II Local ca 5 mi												
									No time control												
28															iP	23 20 33.1					
															iZ	42.5					
															iS	43.5					
																I Local					
30	e?	08 09 50																			
	eP	10 15													eP	08 10 14					
		Trace Distant																			
		USSR: 2.5°N, 128.3°E; Strasbourg: O = 07:51.6																			
30	i	21 09.3																			
		I Local 5 mi																			
30-July 1	iP	23 54 03.5	1.1	+10		+									iP	23 54 06.5		+12	+12	+	
	i	41													e	00 04					
		I Distant																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . July 1947

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout July 1947.

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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date July	G. C. T.	Location of Epicenters
23	1	13:37:58.4	Las Vegas Wash arm of Lake Mead
24	2	12:28:26.5	6 miles SE Hoover Dam on W slope of Black Mountains
25	3	00:10:52.4	N shore Lake Mead - 19 miles NNE Hoover Dam
26	4	08:05:20.0	4 miles NNE Boulder City (Same as No. 19)
27	5	16:31:18.9	(Same as No. 26)
28	11	09:59:28.0	9 miles E by S Hoover Dam - 3 miles E Mt. Wilson
29	19	01:15:15.4	3 miles E Hoover Dam near old boat landing
30	19	05:35:07.3	(About the same as No. 29)
31	19	09:55:16.1	(Same as No. 30)
32	20	23:47:32.5	(Same as No. 33)
33	20	23:48:54.5	Las Vegas Wash arm of Lake Mead 5.5 miles NNW Hoover Dam
34	20	23:53:42.4	(Same as No. 33)

No.	Date	G. C. T.	Location of Epicenters
35	20	23:54:29.7	(Same as No. 33)
36	20	23:58:28.1	(Same as No. 33)
37	27	05:19:57.7	About 4 miles N of Boulder City
38	29	17:25:11.9	3 miles NNW Boulder City
39	31	14:19:57.5	9½ miles SSE Hoover Dam. About 2 miles N Willow Beach

The following shocks were reported felt in the Lake Mead Region:

Ep. No.	Date	G. C. T.	Intensity Description
29	19	01:15	II Local at Boulder City (Felt by few)
30	19	05:35	III Local at Hoover Dam (Felt by several. shock momentary)
30	19	05:35	III Local at Boulder City (Felt by several. shock momentary)

Confidential - not for publication

International Seismological Centre

		BOULDER CITY							OVERTON							PIERCE FERRY						
Date	No	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	1	5	Traces Local - 9 mi																						
	1	iP	08	52	23													iP	08	52	31.5				
		iS			25													iS			40				
			Trace Local																Trace Local						
	1	e	08	52	52													i?	08	52	44		may be part of		
		eP			59													iP			52		local trace		
		i		53	56																				
			I Regional																						
23	1	0	13	37	58.4					i	13	38	13					iP	13	38	10.1				+
		iP		38	01.4		+10	+20	-	iS			15					iN			17.6				
		i			02.5					i			15.4					eZ			18.3				
		iS			03.5							35.5 mi						iN			18.6				
		i			06.2															43.5 mi					
		i			13.0																				
			II Local - 8.7 mi NNE																						
			Epicenter in Las Vegas Wash arm of Lake Mead																						
	1																	iP	13	49	09				
																			Trace Distant						
	1	i	20	14.9																					
			I Local - 5 mi																						
	1	eP	22	53	47													iP	22	54	14				
		e		54	04													eP			22				
		eS			31													eS			51				
			Trace Regional																						
	1-2	5 Traces local on 5 mi																							
24	2	iP	12	28	26.5		-12	+2	+	i	12	28	34.1					iP	12	28	33.3				
		iP			26.9					iS			40.8					i			40.3				
		e			27.9					iSE			42.3					iS			40.7				
		iSE			29.0							41 mi						i			45				
			I Local - 10.5 mi																	37.8 mi					
			Epicenter 6 mi SE Hoover Dam on W slope of Black Mountains																						

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BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	2	iP	14	24	51.9				+7
		m							3
		iP			52.8				+
		iP			53.7				+
		m							40
		iZ			08.9				
		iSZ			09.8		-		
		iSN			11.0				
		I Near Regional							
		94 mi							
		Epicenter near Alamo							
	2								
	2	e	16	09	18				
		eS			44				
		Trace Regional							
	2								
	2	iP	21	32	24				
		Trace Distant							
	2-3	2	Traces Local 5? mi						
25	3	iP	00	10	52.4		+8+12	-	
		i			53.3				
		iS			55.4				
		iZN			58.7				
		iN		11	01.5				
		iE			05.5				
		I Local - 13.8 mi NNE							
		Epicenter N shore Lake Mead - 19 mi NNE Hoover Dam							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
0	14	24	28.2				
iP			45.2				
iPN			46.4				
iP			46.9				
iSZ			57.2				
iSN			57.8				
iSZ		25	00.7				
		II					
		63 mi					
i	21	10.0					
I Local ca 8 mi							
iE	00	10	57.9				
i		11	01.8				
i			04.0				
		30 mi					

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	14	24	53.8				+
iP			54.4				
iZN		25	12.3				
iSZ			13.1				
		I					
		100 mi					
iP	16	09	27				
iP			33.5				
eS		10	05				
Trace Regional							
iP	00	10	58.5				
iZ		11	05.4				
iSNZ			05.9				
		38 mi					

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No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
3	iP	02 41 15			iP	02 41 17			iP	02 41 12		-
	eS	49 59			e	51 22			eS	49 13		
	eS	50 23										
	I Distant											
3	iP	06 11 41.6			iNZ	06 11 31.4			iP	06 11 42.9		
	iP	43.3			i	33.7			i	45		
	iN	44.6			iP	35.1			eS	12 01.5		
	iS	12 00			i	37.2			iS	02.8		
	iS	01.3			e	44.3						
	Faint Trace				iS	46.5						
	Probably near Alamo				eS	50						
4	e	01 45.8							iP	01 42 42		
	Trace Distant								e	45.7		
									Trace Distant			
4	iP	08 05 20.0		+6 -22 +					iP	08 05 30.5		
26	iS	21.2							iSN	38.9		
	II Local 4 mi								eENZ	39.4		
	Epicenter same as No. 19 - 4 mi NNE Boulder City									45.2 mi		
4-5	3	Traces Local ca 6 mi										
5	0	16 31 18.9			iP	16 31 29.7			iP	16 31 31.2		+ +7 +
27	iP	20.7		-4 -95 +	i	31.6			i	32.3		
	iS	21.9			eS	37.3			iZ	38.8		
	II Local								iSN	39.7		
	Same as No. 26								iSE	40.0		
									iN	44		
5-6	2	Traces Local ca 6 mi										
6	iP	11 14 13				Trace			eP	11 14 08		
									eS	22 36		
	Trace Distant								eS	50		

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
6	iP	12 21 10			iP	12 21 13			iP	21 21 12		
	iP	34			iP	37				37		
	I Distant				I							
6-7	3	Traces Local 5-10 mi										
7	e?	04 41 54			eP	04 41 59			eP	04 42 04		
	iP	42 09							i	43 45		
	iP	14										
	I Regional											
	(P) California Coast Range. Magnitude 4.7											
7-8	2	Traces Local ca 5 mi										
8	i	19 26.9										
	I Local 6 mi											
9	i	21 57 59										
	Trace Regional											
9	iP	23 14 57.8		+20 +10 -								
	i	58.6										
	iS	59.3										
	i	15 01										
	iE	08										
	iN	10										
	II Local - 6 mi ESE					Trace				Trace		
9-10	3	Traces Local ca 6 mi										
10	iP	10 56 52.5		? - +	iP	10 56 47.5		-? - +	iP	10 56 50		-18 -25 +
	I Distant											
10	iP	11 07 09			iP	11 07 10			iP	11 07 05		
	e	11.2			e	11.0			eS	11.1		
	i	27 35			e	27 36			i	27 32		
	I Distant - may in part belong to earlier shock											

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		BOULDER CITY							OVERTON							PIERCE FERRY						
	Nov Dec	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	10	eP	16	11	07					eP	16	11	09					eP	16	11	04				
		i		12	15													eS			20.3				
		eS		20	30																				
		I Distant																							
		CGS 14°N, 93°W; 0 = 16:05:11																							
		JSA 13.9°N, 92.9°W; 0 = 16:05:10								100 KM Deep															
	10																	iP	17	12	25.0				
																		iP			37.8				
																		eS		13	30.5				
																		Trace Regional							
	11									iP	02	23	55					iP	02	23	55				-
										Trace Distant															
28	11	eP	09	59	28.0					i	09	59	34.8					iP	09	59	32.5				-
		iP			29.1				-	iSZ			40.9					i			38.0				
		iZ			30.8					iE			42.2					iSZ			39.0				
		iS			31.2					iSN			42.7					i			42				
		I - 15 mi E										37.5 mi								32.5 mi					
		Epicenter 9 mi E by S Hoover Dam - 3 mi E Mt. Wilson																							
	11																	iP	20	41	34				
																		Trace Distant							
	12									iP	00	12	38.5					eP	00	12	38.5				
										Trace Distant															
	12	iP	02	09	59					iP	02	09	58.5					eP	02	10	02				
		I Distant																ipP			20.5				
		CGS 45°N, 149°E; 0 = 01:58.8																iS		19	11				
	12	eP	12	41	47					eP	12	41	49					iP	12	41	48				
		I Distant																eS		51	37				
		CGS 20°S, 176°W; 0 = 12:29.6																eS			54				
		Magnitude about 6.75 (I)																							

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
13	eP	02 38 36				Lost in local disturbance			iP	02 38 43		
	iP	37							iP	50		
	eS	39 00							iS	39 21		
	e	07							iS	27		
		I Regional								I		
13	iP	04 03 04			eP	04 03 15.5			iP	04 03 11		
	iP	05.3			eS	44			iP	20		
	i	26							eS	47		
	iS	27								II		
		I Regional										
13	eP	06 26 08			eP	06 26 11			iP	06 26 06		
	iP	10			eS	32 38			eS	32 45		
	e	28 07										
	eS	32 49										
		I Distant										
13	iP	13 09 31			iP	13 09 36			iP	13 09 35		
	epP	10 03			iP	10 06			ipP	10 07		
	eSN	19 24			eS	19 31			eS	19 32		
	iSE	43				I				I		
	eSS	20 35										
		I Distant										
		CGS 19°S, 179°W; 0 = 12:57.3; 100 KM Deep; iP) Magnitude 6.25										
13-14	3	Traces Local ca 5 mi										
14	e	05 41 17							iP	05 41 18		
		Trace Regional							iP	27		
									i	42		
									eS	26		
									iS	42 30		
14	i	09 37.6										
		I Local ca 5 mi										

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	BOULDER CITY								OVERTON								PIERCE FERRY							
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	iP	06	15	13													iP	06	15	24.5				
	iS			42													iP			26.5				
	iS			49													i			40				
		I Regional															i			51				
																	eS			59				
																	iS		16	01				
15	iP	06	49	12													iP	06	49	02.7				
	iP			12.5													iP			03.3				
	iP			15													i			07.5				
	eS			29													iS			12.5				
		Trace Regional															i			16				
																		I Regional						
15	iP	07	51	52.5													iP	07	51	59				
	iP			56													iP		52	06.5				
	i		52	15													eS			35				
	iS			16.5																				
	iS			22.5																				
		Trace Regional																						
15																	i	17	42.4					
																		Trace Local						
15																	i	17	51.5					
																		Trace Local						
16	eP	07	37	36													iP	07	37	42				
	eS			59													iP			48				
		Trace Regional															eS		38	18				
																		I Regional						
16	e	08	02	13													eP	08	02	25				
	e			47													eS		03	07				
		Trace Regional?																						
16	iP	11	31	10					iP	11	31	12				-	iP	11	31	08				-
	i			37					i			40						Trace Distant						
		I Distant																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	15	38	06					iP	15	38	08					iP	15	38	04				
	i			54					i			56					eP			53				
	I Distant																							
16	eP	19	33	13					eP	19	33	15					eP	19	33	15				
	I Distant																eS		43	40				
16	iP	21	17.8					+																
	I Local ca 5 mi																							
16-17	3	Traces Local ca 5 mi																						
17	iP	06	39	47		+	+	+	iP	06	39	50		+	+	+	iP	06	39	50		+	+	+
	i		43	00					eS		49	18					i		41	53				
	I Distant																i		43	00				
	Compression from the SW - very deep																eS		49	17				
17	e	10	52	11													iP	10	52	14				
	e		53	10																				
	Faint Trace																							
18-19	3	Traces Local																						
29 19	0	01	15	15.4					iP	01	15	26.3				-	iP	01	15	27.3		+	0	+
	iP			17.3		+17-103?			iS			31.8					i			35.3				
	iS			18.6					eSZN			33.3					eSZN			35.8				
	III Local 4 mi NE								iS			34.3					iSNN			36.3				
	Epicenter 3 mi S Hoover Dam										I								44 mi					
	near old boat landing										40 mi													
									Hoover Dam															
									i	01	15	17.2												
									iS			18.0												
											3 mi													

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30 19	0	05 35 07.3			IP2	05 35 18		-	IP	05 35 19.3		+25 +6 +
	IP	09.0		+15(-300)	IEN	18.3			IPZE	20.2		
	IS	10.3			eS	25			IZ	22.3		
	III Local 4 mi N				ISE	26			IS	27.5		
	About the same as No. 29					II				44.5 mi		
						39.5 mi						
						Hoover Dam						
					eP	05 35 09.0						
					eS	10.1						
						3.5 mi						
31 19	0	09 55 16.1			I?	09 55 27			IP	09 55 28.1		+ +
	IP	17.8		+4 -25	IS	34			IZN	29.3		
	IS	19.0				39+ mi			I	35.1		
	IE	24.3							I	35.2		
	I Local 3.5 mi N					Hoover Dam			ISEN	37.1		
	Same as No. 30				IS	09 55 18.7			IN	41.6		
						3.5 mi				44.5 mi		
19					IP	11 09 44			IP	11 09 46		
						Trace Distant						
19					I	17 23.8						
						II Local (Blast?)						
19-20	E	Traces Local ca 5 mi										
20	IP	06 02 45		-10 +45+110						Trace		
	IS	46.1										
	II Local 3 mi S											
20	eP	09 34 21			eP	09 34 33			IP	09 34 27		
	eS	44			eS	35 05			eP	33		
									eS	35 05		
	I Regional											

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BOULDER CITY

No.	Date	Phase	h	m	s	Period T	Trace Amplitude E	N	Z
	20	eP	12	29	46				
		Trace Distant							
32	20	0	23	47	32.5				
		iP			36.5				-
		i			37.9				
		iS			39.3				
		iS?			40.0				
		i			51.7				
		I Local 8 mi NNW							
		Epicenter same as No. 33							
33	20	0	23	48	54.5				
		eP			58.5				
		i		49	00				
		iS			01.3				
		i			03.2				
		iN			09.5				
		iZ			13.5				
		eZ			23				
		II Local 8 mi NNW							
		Epicenter in Las Vegas Wash							
		arm of Lake Mead 5.5 mi NNW							
		Hoover Dam. Focal Depth 11 mi							
34	20	0	23	53	42.4				
		iP			46.4				
		i			48				
		iS?			49.3				
		i			51.4				
		iZ		54	01.4				
		iN			03				
		i			11				
		I Local 8 mi							
		Epicenter same as No. 33							

OVERTON

Phase	h	m	s	Period T	Trace Amplitude E	N	Z
iP	12	29	51				
iP	23	47	42.5				
i			44				
i			46.5				
eSN			50.2				
		36	mi				
iP	23	49	04.5				
i			07.1				
iZN			11				
iSN			11.8				
iSE			12.3				
iZ			15				
i			17.8				
iE			25				
		36	mi				
Hoover Dam							
iS	23	49	00.1				
iP	23	53	52.5				
i			59.2				
iS			59.5				
eS		54	00				
i			06.5				
iE			16				
		36	mi				
Hoover Dam							
iS	23	53	48				
		5.5	mi				

PIERCE FERRY

Phase	h	m	s	Period T	Trace Amplitude E	N	Z
iP	12	29	50				
iP	23	47	44.4				
iE			44.8				
i			46.3				
i			47.7				
iZ			52				
iSN			52.5				
i			58.3				
		43	mi				
iP	23	49	06.3				-
i			07.2				
iEN			08.8				
i			13				
iS			14.5				
i			19				
		43	mi				
iP	23	53	54.2				-
i			59.1				
i		54	02				
iSN			02.5				
i			06.9				
		43	mi				

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35	20	0	23	54	29.7						Obscured at Overton							iP	23	54	41.6				
		iP			33.7													i			45.8				
		iSr			36.5													e			49				
		iNE			37.1						Hoover Dam							iS			49.7				
		i			37.7															43 mi				
		i			39					iS	23	54	35.6												
		iE			49.5							5.5 mi													
		iE			52.5																				
		iZ			54																				
		i		55	00																				
		I Local 6 mi																							
		Epicenter same as No. 33																							
36	20	0	23	58	28.1					iP	23	58	38.3			+	-	iP	23	58	40				
		iP			32.1		-2	+25	-	i			41					i			42.5				
		i			33.6					iN			43					e			47				
		iS			34.9					eSZ			44.5					iSZW			48				
		i			37					i			51.5							43 mi				
		iN			44							36 mi													
		iEZ			47																				
		iZ			56.5						Hoover Dam														
		II Local 6 mi								iS	23	58	33.7												
		Epicenter same as No. 33										5.5 mi													
20-21		2 Local shocks - I ca 5 mi																							
21		iP	00	45	42					iP	00	45	46.5		-?	-	-	iP	00	45	45.5		-6	-12	-
		ipP		47	10					ipP		47	14					ipP		47	14				
		iS		55	32					iS		55	38					iS		55	37				
		I Distant																							
		Dilatation from the SSW																							
21		iP	04	14	50													iP	04	14	53				
		iP		15	03													i		15	01				
		Trace Distant																iP			07				
																		i			16				

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	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
21	iP	04	42	30		-5	+60	-										Trace						
	iS			31.3																				
	e			35.8																				
	I Local 4 mi N																							
21	eP	10	15	53													eP	10	15	54.5				
	Trace Distant																							
21	eP	11	23	46													iP	11	23	52				
	iP			48.5													eP			58				
	iS		24	05.5													i		24	05				
	i			07.5													iS			29				
	iS			09																				
	I Regional																							
22	i	04	13.5																					
	I Local 5 mi																							
22									iP	12	30	40					iP	12	30	37				
									iP			55					iP			52				
									Trace Distant															
23	eP	05	21	44					e	05	21	38					eP	05	21	38				
	Trace Distant								iP			43												
	CGS 17°E, 68.5°W; O = 05:13.4																							
23	e	09	42	07													iP	09	42	13				
	e		43	43													eS		43	32				
	Trace Regional																							
23	i	15	36	57					iP	15	37	46					iP	15	37	51				
	iS		37	18					i			49					iP			52.5				
	Faint Trace								i			58.5					i			56.5				
									iS			59					i			59.5				
																	iS		38	07				
23	eP	17	32	07													e	17	31	58				
	Trace Distant																eP		32	05				
																	e		33	03				

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Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	iP	21	34	26				
	e			55				
	Trace Regional ?							
24	eP	06	12	37				
	eS		13	00				
	I Regional							
24	eP	10	52	56				
	Trace Distant							
24	eP	11	14	09				
	I Distant							
24	eP	12	29	59				
	e		40	15				
	eS			31				
	e		55	37				
	I Distant							
	New Hebrides: CGS 18.5°S, 170°E; 0 = 12:16.9 (P) Magnitude 6.5							
24								
24	eP	16	55	14.5				
	iP			24.5				
	eS		56	34.0				
	I Regional							
24	eP	18	31	00.9				
	iP			14.4				
	i			29.9				
	iS			37.4				
	I Regional							

OVERTON

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	iP	21	34	30				
24	iP	06	12	43				
	e			49				
	eS		13	20				
24	eP	10	53	00				
	e	11	02	32				
24	iP	11	14	13				
	I							
24	iP	12	29	56				-
	eS		40	29				
	e		55	36				
	I							
24	iP	16	41	11.5				
	Trace Distant							
24	iP	16	55	22.7		-10	-10	-
	i			25.0				
	eS		56	58.5				
24	iP	18	31	08.5				
	i			15.5				
	i			24.03				
	eS			51.5				
	iS			53.5				

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No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	e?	22	11	13.8				
	*eP			25.1	.8			
	iP	22	11	25.9				
	iP			26.8				
	iP			31.3				
	iP			33.8				
	i			39.3				
	iPr			42.8				
	i?			51.8				
	III Regional							
24	iP	22	54	20.2		+		
	i			23.4				
	iP			26.7				
	i			36.0				
	i			48.2				
	iS			56.7				
	III Regional							
24-25	10	Traces regional - aftershocks?						
25	iP	00	47	09.8		+		
	iP			10.7		+		
	iP			16.6				
	i			28.1				
	i			30.1				
	i			36.6				
	iS			45.1				
	III Regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	22	11	33.5				
iP			34.5				
iP			42.5				
iP	22	54	29.5				
iP			38				
i			48				
i			55				
i		55	07				
eS			11				
eS			21				
iP	00	47	19.3				
iP			20				
iP			28				
i			36				
i		48	00				
i			09				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	22	11	32.0				
iP			32.7				

Felt widely in Southern California. Main shock Borrego Valley (Upper Coachella Valley) earthquake. Unless otherwise designated, the following are aftershocks, the largest of which are given separate treatment.
*Long period wave appears not to belong to regional earthquake which follows:

Phase	Time h	m	s
iP	22	54	27.7
i			33.5
i			42.5
e		55	05.5
iS			12.5

30 Traces regional shocks in addition to those measured

Phase	Time h	m	s
iP	00	47	17.0
i			24.5
i			32.5
e			47.5
i		48	03.5

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No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	e	01	11	36.6					iP	01	11	54					iP	01	11	53.0				
	e		13	48.6					i		13	51					i		13	50.5				
		Trace Distant															eS		21	20.5				
		Strasbourg: 17°S. 179°W; O = 01:00.5; ca 600 KM deep																						
25	iP	01	57	21.0					iP	01	57	36.5				-	iP	01	57	34.3				-
	iP			26.8					eP			45					iP			41.5				
	iP			31.0					iN			51					i			49.5				
	e			37.0					i			53					e		58	12.5				
	e			44.5					e		58	20					iS			17.5				
	e			56.5					eS			28												
	iS		58	03.5																				
		II Regional																						
25	e	03	07.6																					
		I Regional																						
25	i	03	12.6																					
		I Regional																						
25	e	03	22.5														iP	03	22	37.6				
		I Regional															iP			44.6				
																	i			53.1				
																	iN		23	08.1				
																	eS			17.6				
																	iS			23.6				
25	i	03	29.1						Doubtful time control at Overton remainder of month															
		I Regional																						
25																	iP	04	52	30.6				
																		Trace Distant						
25	iP	05	18	02.0				-									iP	05	18	39.2				
	iP			13.5													i			47.6				
	i			18.5													i			51.1				
	iN			27.5													i			53.6				
	iN			30.0													i		19	12.6				
	iS			39.0													eN			19.6				
		II Regional															iS			23.6				

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No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
25	iP	06	20	28.5		+		
	iP			28.8				
	iP			29.9				
	iP			33.5				
	i			44.5				
	i			47.0				
	e			54.5				
	iS		21	04.5				
	III Regional							
25	e	07	23.5					
	I Regional							
25	iP	07	58	10.4				
	iP			11.2				
	iP			15.9				
	i			26.9				
	i			34.4				
	iS?			37.4				
	iS			45.9				
	II Regional							
25	e	10	52	30.3				
	Trace Distant							
25	iP	16	15	31.7				
	iP			38.0				
	e			47.0				
	e		16	05.0				
	eS			08.0				
	II Regional							
25	eP	16	52	51.0				
	iP			58.0				
	i		53	17.5				
	eS			28.0				
	I Regional							

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
25	iP	06	20	35.6				
	i			42.1				
	i			51.6				
	e?		21	18.6				
25	iP	07	58	17.3				
	i			23.6				
	i			31.1				
	e			56.6				
	iS		59	02.6				
25	eP	10	52	27.7				
25	iP	16	15	39.3		+9	+10	+
	i			45.8				
	i			48.8				
	i			54.8				
	eS		16	19.3				
	iS			24.8				
25	iP	16	52	58.6				
	iP		53	05.8				
	i			11.3				
	eS			42.8				

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No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	iP	19	19	50.0		-	+	+
	i		20	04.0				
	ipP		21	51.0				
	is		28	58.0		-	-	
	I Distant							
25-26	3	Traces Local						
	2	Traces Regional						
26	eP	01	18	46.0				
	eS		19	10.0				
	I Regional							
26	iP	01	24	53.5				-
	iP			59.5				
	i		25	06.0				
	i			09.0				
	i			17.5				
	eS			28.0				
	II Regional							
26	iP	02	50	20.6				
	iP			27.4				
	i			36.9				
	e			47.9				
	is			56.9				
	III Regional							
26	iP	04	48	57.9				
	eP		49	05.9				
	eS			45.9				
	I Regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	19	19	48.2		+4	+15	+100
epP		21	50.9				
is		28	52.9				
es?		32	10.9				
iP	01	18	52.4				
iP			59.9				
eS		19	25.9				
is			29.9				
iP	01	24	50.9				
iP		25	08.9				
i			16.4				
eS			38.9				
is			47.9				
iP	02	50	28.1		-	-	-
iP			36.9				
iP	04	49	05.0				
eS			47.0				
	I						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF July 1947 16

Time used is GCT

BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	iP	05	01	47.9													iP	05	01	55.8				
	i			53.9													e			05.0				
	i		02	02.9													eS			37.0				
	eS			25.9													iS			43.0				
		I Regional																						
26	e	09	11	17.3						No time control at Overton							iP	09	11	28.8		+		+
	iP			21.0		+60	+75	-		S-P = 7.1 Sec							i			29.5				
	i			22.5						36 mi							i			31				
	iZN(S?)			23.6													e			31.7				
	iS			23.9													e			35.6				
		II Local 8 mi															eS			36.1				
		Under lake basin about 8 mi NNW Boulder City. 10 mi deep?															iSN			36.8				
																	iSE			37				
																			I					
																			42 mi?					
26	iP	12	06	14.9					iP	12	06						iP	12	06	18.0				
	i			35.9					eS		15						eS		15	09.0				
		I Distant																						
26	iP	23	05	03.2					iP	23	05						iP	23	05	12		+30	+40	+
	iP			04.2					iP								iP			20.5				
	iP			10.8					iP								i			25				
	i			21.8					i								iS			55				
	eN			35.8					iS															
	iSE			39.3																				
	iSZE			40.8																				
		II+ Regional																						
26	iP	23	11	30.8						I							iP	23	11	43.5				
	eS		12	05.8													iP			51				
	eS		13	11.8													eS		12	28				
		I Regional																						
26	iP	23	14	30.8						II							iP	23	14	47.5				
	iP			36.3													eS			22				
	iS		15	04.8																				
		I Regional																						

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	IP	23	20	21.8				
	eS			56.8				
	I Regional							
26-27								
27	0	05	19	57.7				
	IP			59.5		+6	-60	+
37	IS		20	00.8				
	i			06.3				
	II Local							
	About 4 mi E of Boulder City at No. 19							
27	IP	10	32	31.8				
	eS		33	07.8				
	I Regional							
27	IP	11	54	37.3				
	IP			44.3				
	eS		55	11.8				
	I Regional							
27								
28	eP	00	10	49.8				
	Trace Distant							
28	eP	01	51	19.8				
	Trace Distant							
28	eP	03	55	38.8				
	I Distant							
	60S 62.5°W, 151°W; O = 03:48.7							
28								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
I							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
I							
10	Traces Regional shocks						
IP	05	20	10.0				
e			17.5				
IES			18.4				
IS			18.7				
45.5 mi							
IP	10	32	39.3				
eP			47.3				
eS			21.3				
IP	11	54	44.8				
i			54.3				
eS		55	29.3				
I							
eP	21	48	16.4				
eS			59.4				
Trace Regional							
eP	00	10	12.5				
e			48.5				
eP	01	51	22.5				
Trace							
eP	03	55	40.5				
eP	06	38	39.5				
eS		39	21.5				
Trace Regional							

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Time used is GCT

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
28								
28	IP	18	3h	10.9				
	eS			48.9				
	Trace Regional							
28	e	20	00	07.9				
	Trace Regional							
29	IP	02	35	32.7				
	eS			52.9				
	Trace Regional							
29	IP	02	49	22.9				
	IP			23.9				
	I Distant							
29	eP	12	57	46.8				
	Trace Distant							
29	eP	13	56	05.8				
	e	14	01	40.8				
	eP'			54.8				
	e		02	25.8				
	Coda			19				
	80S 29.5°N, 97°W: O = 13:43.5							
29	O	16	18	45.9				
	IP			47.6		+18?	-35	+
	iS			48.8				
	II Local 3.5 mi NE Boulder City							
	Probably near No. 37							

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	e	13	57					
	e	14	01					
	eP'							
	Trace							

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	I	13	52.0					
	I Local 45 mi							
	IP	18	3h	17.7				
	eS		35	01.7				
	I							
	IP	02	35	44.3				
	IP			45.3				
	eS		36	13.9				
	iS			14.6				
	eP	02	49	22.0				
	e	12	57	48.0				
	e	13	57	53.0				
	e	14	01	18.0				
	e		02	09.0				
	e			32.0				
	Coda				19			
	IP	16	18	57.9				
	IP			59.2				
	iS		19	06				
	iS			06.5				
	iSS			06.8				
	44.5 mi							

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Time used is GCT

Sta.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	29	e	16	35	40.8				
		IP			44.8				
		eS		36	15.8				
		Trace Regional							
	29	IP	16	36	52.8				
		IP			00.8				
		e			19.8				
		eS			28.8				
		II Regional ?							
	29								
	29	IP	17	25	11.9		+40	-75	+
		IS			13.0				
		II Local - 3 mi NNW Boulder City							
	29-30	2	Traces Local on 6 mi						
	30	IP	03	58	49.7				
		eP			56.7				
		eS		59	28.7				
		Trace Regional							
	30	IP	05	22	56.5				+
		eP			02.7				
		eS			24.7				
		IS			30.7				
		II Regional							
	30	IP	13	20	00.5		+15	+20	-
		IS			03.1				
		i			13.1				
		I Local							
OVERTON									
		IP	16	35					
		eS			36				
		IP?	16	37					
		IP							
		IS							

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BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
30	IP	13	49	34.4				
	IS			55.6				
	Trace Near Regional							
30	IP	22	45	38.0		disappears		
	III Local							
30	0	22	54	58.3				
	IP		55	00.3		+39	+70	-210
	IS			01.7				
	II Local							
	5 mi NNE Boulder City near boat landing							
30-31	9	Traces Local - Probably aftershocks						
31	eP	02	00	33.5				
	eS		01	15.5				
	Trace Regional							
31	0	03	37	00.1				
	IP			01.9		+5	-	-
	i			02.7				
	IS			03.2				
	i			08.5				
	i			14.5				
	II Local							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
IP	13	49			+6		-
i							
i							
iSSE							
iSE							
		I					
IP	22	45					
i							
iSY							
Masked by local disturbances							
		40½ mi					
Hoover Dam							
IP	22	46	18.3				
iSY			39.3				
Local Disturbance							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
IP	13	49	29.4		0	+	-
i			29.9				
eS			46.0				
iSSE			47.0				
		II					
IP	22	45	48.4		+270	+65	+335
iY			55.0				
iSY			56.9				
		III					
		42.5 mi					
iY	22	55	13.6				
e			17.5				
iS			19.1				
iS			20.1				
eP	02	00	34.6				
eP			41.6				
eS		01	19.6				
i	03	37	11.6				
i			12.6				
i			17.4				
i			18.8				
iS			19.2				

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Sta.	Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
BOULDER CITY										
	31	LP	08	07	29.5					Trace Distant
	31	LP	10	08	38.5					
		iPP		09	54.5					Trace Distant
39	31	0	14	19	57.5					
		LP		20	01.2		-15	+11	+	
		i			02.2					
		iS			03.6					I Local 11½ mi SE 9½ mi SSE Hoover Dam About 2 mi S Willow Beach
	31	LP	14	21	17.0		-28	+70	+	
		iS			18.0					
		iS			29.5					II Local 3 mi S Boulder City
	31									
	31	i	15	23	56.5					
		LP		24	00.2					
		eS			26.5					Trace Regional
OVERTON										
	31	LP	08	07						
	31	LP	10	08						
		LP		09						
		e	14	21						Trace Distant
PIERCE FERRY										
	31	LP	08	07	17.7					
	31	LP	10	08	41.8					
		i		09	58.8					
		LP	14	20	08.3					
		i			14.6					
		iS			15.8					
		iS			16.4					39½ mi
	31	i	14	21	29.8					
		iS			37.7					
		iS			38.6					
		e	14	21	25.9					
		e	15	24	04.9					
		eP			11.9					
		iS			42.9					

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . August 1947

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout August 1947.

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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead Region as follows:

No.	Date August	G. C. T.	Location of Epicenters
40	3	01:49:40.1	About 6 miles SE Hoover Dam - E-W position uncertain by 2 miles
41	3	22:20:33.3	5.5 miles NNE of Boulder City near boat landing
42	9	04:41:11.0	Probable 5 miles NE Boulder City off old boat landing
43	9	06:12:51.7	5 miles NE Boulder City off old boat landing (Same as No. 42)
44	10	08:21:35.2	(Same as No. 42)
45	12	16:57:40.7	S shore of lake 1.5 miles W of Hoover Dam
46	15	02:38:58.0	3.5 miles North to NNE
47	17	23:25:04.3	4.8 miles NNW Boulder City
48	19	09:41:23.2	9 miles W by S of Pierce Ferry 1 mile W of Gregg Basin
49	31	15:56:50.1	W side of Grand Wash - 9 miles NNW Pierce Ferry

The following shocks were felt in the Lake Mead Region:

Ep.No.	Date	G. C. T.	Intensity Description
	23	00:00:01.1	II Local at Boulder City (Felt by few)
	23	11:39:26	IV Local at Boulder City (Felt by several, rattled windows)

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

No.	Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
1		1P	00 30 28							eP	00 30 34.5		
		1P	34.5							1P	42		
		eS	31 04.5							1S	31 21.5		
			Trace Regional								Trace		
			Aftershock of July 24. Morongo Valley, Calif., earthquake; 34°01'N, 116°30'W (P)										
1		eP	01 01 15				Time Uncertain			1P	01 01 14		+
		1P	57			eP	01 01 16			1P	56		
			I Distant			1P	02 00			eS	10 52		
										eS	11 10		
1										1S	02 48 06		
											Trace Regional		
											Aftershock Morongo Valley (P)		
1		eP	04 36 19			eP	04 36 25			eP	04 36 25.5		
			Trace Distant				Trace Distant				Trace Distant		
1		e?	13 41 15							eP?	13 40 50		
		e	42 15							e	41 12		
		eS?	43 27							eS	43 23		
			I Regional								I Regional		
			Beginning in doubt										
1										1P	14 06 44.5		.8
											Trace Regional ?		
1		1P	14 21 30.5							1P	14 21 38		
		1P	36.5							1P	51.5		
		eS	22 07							eS	22 22		
			Trace Regional										
			Aftershock Morongo Valley (P)										
1		1P	14 27 17							1P	14 27 17		
		e	29 07							e	28 56		
		e	29 32							e	29 20		
			I Regional										

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Time used is GCT

BOULDER CITY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	eP?	15	43	03.5			
	1P			06.2			
	1P			08.3			
	i			25.7			
	i			31.1			
	iS			32.5			
	II Regional						
	35.0°N. 117.0°W (P) North of Barstow						
1	e	16	45	43			
	i		46	20	1.5		
	I Distant						
1	i	17	02	16	(May be Local)		
	i			21+			
	i			53			
	I Regional						
	Aftershock Morongo Valley (P)						
1	1P	22	52	41.0	+	+	-
	iS			43.8			
	I Local 13 mi NE						
1-2	11	Traces Local 6+ mi					
2							
2							
2	1P	17	34	11.5	+15	+15	-
	iS			12.9			
	I Local 5 mi NE						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1P	15	43	13.0			+	-
e			17.5				
i			21.0				
iS			44.5				
1P	17	02	24.0				
i		03	08.5				
1P	01	28	53.0				
iS		29	25.0				
I Regional							
Aftershock Morongo Valley? (P)							
eP	03	28	27				
i		29	13				
I Regional							
Aftershock Morongo Valley? (P)							

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Time used is GCT

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
			BOULDER CITY								**OVERTON**								**PIERCE FERRY**						
	2																	iP	21	25	00.5				
																		e			47.5				
																		i			22.5				
																			Trace Regional						
																			Aftershock Merengo Valley (P)						
	2-3	6	Traces Local about 6 mi																						
40	3	0	01	49	40.1						S-P = 8.4 Sec							iP	01	49	50.9		-3	-6	-
		iP			44.0		-130	+53	+190									i			57.3				
		iS			46.7													iS			58.2				
			II Local 12 mi								44 mi							iSS			58.4				
			Epicenter about 8 mi SE Hoover Dam.								S-S position uncertain by 2 mi								I Local 39 mi						
	3	iP	20	42	06.7		+		-									i	20	42	22				
		iS			08.3													iS			23				
			I Local 6 mi																I Local						
41	3	0	22	20	33.3													iP	22	20	45.5		+	+	+
		iP			35.4		-5	-19	+									i			53.8				
		i			36.6													iS			54				
		iS			36.9														II Local 45 mi						
			II Local East 5.5 mi																						
			Epicenter 55 mi ENE of Boulder City near Boat landing																						
	3-4	3	Traces Local 5+ mi																						
	4									iP	20	18			-		+								
											II Local 5 mi														
	4																	i	17	43	56.0				
																		iS		44	13.0				
																			Trace Regional						
	5	i	07	56	03	1.1												eP	07	56	06				
			Trace Distant																						

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Time used is GCT

No.	Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
	5	IP	14	43	02				+									eP	14	43	02.5				
		e		44	27													e		44	27				
		e		46	56.4													e		46	56				
		I Distant																Coda				16			
		OGS 25°S, 62°W (Arabian Sea)									0 = 14:24.2								I Distant						
	5	i	21	46.4																					
		Trace Local 5 mi																							
											(Time Uncertain)														
	6	IP	05	56	18.3	1.5	+12	-8	-	IP	05	56	17				-	IP	05	56	15.5		+25	-14	
		m							80	ipP		58	13					i		57	42.5				
		ipP		58	15.5					i		59	48					ipP		58	13.5				
		is	06	03	50					isP			56	1.2				is	06	03	44				
		ipS?		05	05					es	06	03	48					i			56				
		esS		07	13					eP'P'		25	06					i		05	03				
		eP'P'		25	09					i			30					esS		07	17				
		I Distant									I Distant							eP'P'		25	32				
		Deep Focus h = 550 KM																I Distant							
		OGS 9.5°S, 72°W; (Near border of Brazil and Peru) 0 = 05:46.9																							
	6	IP	06	34	53.0					IP	06	34	51												
		e		35	26.0					i		35	27												
		Trace Distant?									Trace Distant?														
											Maybe part of foregoing shock.														
	6	i	09	53	47	1.2												eP	09	53	50.5				
		i		54	19													i		54	22				
		Trace Distant																Trace Distant							
	6																	IP	13	30	19.4				
																		is		31	05.2				
																		I Regional							
																		Aftershock Morongo Valley (P)							
	6	e	20	13	37																				
		Trace Distant																							

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No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
7	e	00 11 37										
		Trace Distant										
7	eP	00 47 40.0							eP	00 47 33		
	e	01 01 18							eSf	53 28		
		I Distant										
		OGS 19.8°N, 75.8°W (East of Santiago, Cuba)										
		O = 00:40.3										
7	iP	08 51 42.5							iP	08 51 50.0		
	i	50.5							i	52 03		
	eP	57							iS	35.0		
	iS	52 15.5								I Regional		
		Trace Regional										
		Aftershock Morongo Valley Earthquake (P)										
7	e	22 24 22							eP	22 24 19		
		Trace Distant										
8	eP	04 51 44							iP	04 51 52.7		
	i	51							iS	35		
	eS	56.0										
		I Regional										
		Aftershock Morongo Valley (P)										
8	iP	06 48 22.5							iP	06 48 31		
	i	24.5							i	34.5		
	i	30.0							iS	49 14.5		
	i	40.0										
	iS	49 01										
		I Regional										
		Aftershock Morongo Valley (P)										
8-9	4	I Local 7 mi										

International Seismological Centre

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
42	9	0	04	41	11.0				
		1P			13.0		+22	+22	-
		1S			14.4				
		II Local 5 mi NE							
		Probable epicenter 5 mi NE Boulder City off old boat landing							
43	9	0	16	12	51.7				
		1P			53.7		+10	+8	-
		1S			55.1				
		I Local 5 mi NE off old boat landing							
		Same as No. 42							
	9	1S	09	28	58				
		Trace Regional							
		Aftershock Nevada Valley (P)							
	9	1P	11	36	06.5				
		i			24				
		1S			38				
		I Regional							
	10	i	01		34.0				
		I Local 6 mi							
	10								
44-10		0	08	21	35.2				
		1P			37.2		+31	+30	-
		1S			38.6				
		II Local 5 mi NE							
		Epicenter same as No. 42							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		1	04	41	24.1				
		1			30.4				
		1S			31.1				
		Trace 43.5 mi							
		1S	06	13	11.7				
		Trace 43.5 mi							
		e	02	58	05				
		e			50				
		Trace Distant - Ann Arbor 42°N, 84.2°W. Southern Michigan							
		1P	08	21	46.9				
		i			48.5				
		i			54.2				
		1S			55.1				
		I Local 43.5 mi							

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Time used is GCT

Sec. Code	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
10	i	08 41.2										
		I Local 5 mi										
10	iP	21 06 05.0			iP	21 05 56.1			eP	21 06 06.1		
	iS	20.5			iP	59.8			iS	20.3		
		Trace Near Regional			eS	06 05.6				Trace Near Regional		
					iS	06.4						
						Trace Near Regional						
10	e	21 59 41			eP	22 00 49.1			i	21 59 50.3		
	e	22 00 01				I Regional			eP	53.3		
	iS	01 15							i	22 00 11		
		I Regional							iS	01 26		
		(Beginning indefinite)				Reported strong at Hollister, California						
10-11	2	Traces Local 6 mi										
12-13									3	I Local 6 mi		
12									iP	02 07 09.5		
									i	51.6		
									eS	54.6		
										I Regional		
										Aftershock Norongo Valley (P)		
12	iP	05 51 43			iP	05 51 44.3			iP	05 51 52		
		I Distant				I Distant				I Distant		
12					iP	15 17.6		+ +				
						II Local						
45 12	0	16 57 40.7							eP?	16 57 52.2		
	iP	42.7		+12+12 -					i	55.0		
	iS	44.1							iS	58 00.3		
		II Local 5 mi NE								II Local 42.5 mi		
		Epicenter on S shore of lake 1.5 mi W of Hoover Dam										

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Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
13	eP	12 39 50					iP	12 39 58.0					iP	12 39 53.4				
	iS	40 11					iS	40 05					iP	55.2				
		I Regional						I Regional					i	10				
													i	14				
													iS	19				
														I Regional				
13	iP	16 39 38											iP	16 39 42				
		I Distant												I Distant				
13	e	20 09 32.7											iP	20 09 42.6				
	iPz	33.5											iP	45.9				
	iP	35											iP	51				
	iP	37.											i	10 00				
	i	52.7											i	05				
	iS	10 02											iS?	13				
		III Regional											iS?	23				
		140 mi WSW North of Barstow, Calif. (F)												III Regional				
14	eP	09 56 36											eP	09 56 37				
		Trace Distant																
14	iP	14 23 34.4		+16	+15	-							e?	14 23 44.9				
	iS	36.2											i	45.5				
		I Local 6 mi NE											iS	51.0				
														Trace				
14	i	17 10.0																
		I Local 4 mi																
14	eP	19 12 07.1																
		Trace Distant																
14	iP	21 18 57.8											iP	21 19 01				
	i	19 23.4											i	26				
		Trace Distant																

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No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	
46	15	BOULDER CITY	0	02	38	56.0					
			iP			59.7		01	-55	+	
			iS		39	00.9					
			II Local 3.5 mi North to XXX								
	15		iP	04	13	06.7		-10	-25	+	
			iS			07.7					
			I Local 2.5 mi XXX								
	15		iP	09	27	08.3					
			I Distant								
	15		i	14	30.0						
			Trace Local 7 mi								
	15-16		5	Traces Local 2.5 mi							
	16										
	16		eP	07	53	43					
			eS			51.9					
			iS			59.4					
			I Near Regional								
			35°40'N. 116°23'W (P) Amargosa River 55 mi								
	16		i	17	00.4						
			I Local 4 mi								
	16		iP	18	51	07.1					
			eSEZ		59	53					
			eSNZ	19	00	19					
			I Distant								

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	
		OVERTON									

No.	Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	
		PIERCE FERRY	iP	02	39	10.3					
			iSY			16.8					
			i			20.3					
			iSY			23.9					
					45.5	mi					
			iP	09	27	08.2					
			iP			11.2	1.4				
			i		37	07	1.4				
	16		iP	07	07	10					+
			I Distant								
			eP	07	53	54.4					
			iP			55.4					
			i		54	04.5					
			i			08.0					
			i			14					
			iS			21.5					
			iP	18	51	03.5					
			eS		59	24					
			e			43					

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Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
17						
17	1P	01 28				
		I Distant				
47 17	0	23 25 04.3				
	1P	06.3		+10	+20	-
	1	07.3				
	1S	07.7				
		I Local - 4.5 mi NW Boulder City				
17-18	5	Traces Local 4 mi NNE				
18	eP	06 16 36	1.2			
		I Distant				
48 19	1P	09 41 23.2				
	1	29.9				
	1S	30.9				
	1S	31.1				
		I Local 38.5 mi				
		Epicenter 9 mi West by South of Pierce Ferry				
		1 mi west of Gregg Basin				
19	1P	10 19 36.0	1.0		+	
		I Distant				
20	eP	16 52 42.7				
		Trace Regional ?				
20-21	3	Traces Local 6 mi				

Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON						
	1P	19 50		-15	-30	+
		II Local 6 mi				
	1S	23 25.4				
	3	I Local 10 mi				
	1P	09 41.5				
		I Local				

Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY						
	1P	01 29				
	1P	23 25 16.7				
	1S	17.5				
	1	24.6				
	1S	25.4				
		46 mi				
	eP	06 16 35.0				
	0	09 41 12.7				
	1P	15.8		+240	+55	+?
	1	17.0				
	1S	17.9				
		II Local 9 mi W				
	1P	10 19 39.0				
		I Distant				
	1	16 51 22				
	1	40.0				
	1	52 48.8				
		Trace Regional ?				

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Time used is GCT

11

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
21	iP	02	27	34.0		0?		-									1S?	02	27	51.9				
	i			35.3													iS			54.2				
	i			36.1														I+ Local						
	i			37.6																				
	I+ Local (Maybe two Locals)																							
21																	iP	09	47	18.5				
																	iS			57.0				
																		Trace Regional 160 mi SW						
21-22	2	Traces Local																						
22	eP	02	44	11					iP	02	44	15					iP	02	44	15.0				
	Distant								Distant								Distant							
22	iP	10	08	14													iP	10	08	24				
	iS			36													eS			56				
	Trace Regional																	Trace Regional						
	Near Yuma, Calif. (P)																							
22	eP	22	54	55.7													e	25	55	07.0				
	i		55	15.5													iP			11.0				
	iS			24.5													iS			45.4				
	I Regional																	I Regional						
	Santa Monica Bay (?)																							
22-23	6	Traces Local 6 mi																						
22	0	23	59	55.8																				
23	iP	00	00	01.1					~iP	1S?	00	00	20.0				iP	00	00	10.2				+
	i			02.1													i			11.3				
	iS			02.7													i			17.3				
	i			04.7													iS			18.7				
	II Local 6 mi																	42 mi						
	(Beginning is doubt)																							
	Felt at Boulder City by few - Epicenter along the Colorado River																							
	6 mi easterly from Boulder City - N-S position is doubt																							

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
23					1S	00 28.1			1P	00 27 54.4		+26 -26 +?
						II Local			1S?	55.7		
									1SN	56.4		
									1E	57.0		
										II Local 9 mi SW		
23									1P	00 30 44.1		+45 -52
									1S?	45.4		
									1S	46.2		
										II Local 9 mi SW		
23									1S	00 31 02		
										II Local		
23	0	11 39 24.6							eP	11 39 37.5		
	iP	25.6		-75+125 +?					eP	38.2		
	iS	26.3							eS	46.5		
		II Local 1.5 mi SSE?							iS	47.8		
		Best fit - 1.5 NNW Boulder City - Felt in Boulder City by 1 person								II Local 48 mi		
23					iP	20 10.5						
						II Local 8 mi						
23					iP	21 25.0						
						II Local 8 mi						
23-24	6	Traces Local 3 mi										
24									iP	21 37 21.6		
										I Distant		
24	eP	00 05 54.8			iP	00 05 10.3?			iP	00 06 00.4		
	iP	56.0							eS	16.3		
	iP	57.8										
	i	06 11.1										
		Trace Regional				Trace Regional				Trace Regional		

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
24	iP	09 28 53.0					iP	09 28 56.3					iP	09 28 48.6	1.0	-	0	+
		I Distant						I Distant						I Distant				
25	i	22 40.3																
		I Local 5 mi																
26	eP	05 02 21.0											eP	05 02 19.3				
		I Distant											eS	07 31.3				
														I Distant				
26	i	23 56.3																
		Trace Local	6 mi															
27							6	Traces Local	8 mi									
27	e?	10 55 12.5					iP	10 55 22					iP	10 55 22.0		-3		+
	iP	13.3					i	28					iP	27.8				
	i	23.0					i	37					i	36.5				
	i	31.5					i	41					i	40.0				
	is	39.0					eS	58					i	50.5				
	is	40.0						I Regional					eS	56 00				
		I Regional - Near Manix, Calif. (P)												I Regional				
27	iP	13 51 13.5	1.5		-		iP	13 51 17					iP	13 51 16.0	1.0			-
	i	30						I Distant					eS	14 01 53				
	e	14 01 52											e	02 16				
		I Distant											Coda		15?			
		COS 42°S, 179°E (New Zealand) O = 13:37.6												I Distant				
27-28	2	Traces Local 6 mi																
28	iP	07 00 50.8		+		+	iP	07 00 51					iP	07 00 54		+	-	+
	i	01 05.3					i	01 05					i	01 09				
	eS	09 23.8					is	09 24					is	09 30				
	eS	47.8					e	29 45					is	54				
	e	29 30.8						I Distant					i	29 46				
		I Distant												I Distant				
		COS 49°N, 155°E (Near Kamchatka) O = 06:50.3																

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No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
28	iP	12	36	03.6		0?	+	-
	iS			05.3				
	I Local							
28	iP	14	39	37.5	1.2	+		+
	iS		47	47				
	eS			21				
	I Distant							
	GGS 52°N, 159°E (Near Kamchatka) O = 14:29.4							
28	iP	15	05	54				
	e		08	37				
	i		09	07	2.5			
	I Distant							
28	iP	19	59	57.6			+	
	i?	20	00	13				
	I Distant							
	GGS 29.5S, 71°W, Near Central Chile							
28	iP	21	52	13.0				
	eS			36				
	Trace Regional - Near Manix, Calif.(P)							
29	1	10	41.0					
	I Local 6 mi							
29								
29								

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
28	iP	14	39	36				
	iS		47	49				
	I Distant							
28	iP	20	00	04				
	I Distant							
28								
29								
29								
29								

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
28	iP	12	36	12.9		+		+
	iE			20.0				
	iS?			20.7				
	iS			21.5				
	I Local							
28	iP	14	39	39.5				
	iS		47	53				
	I Distant							
28	1	15	09	06				
	I Distant							
28	iP	19	59	55.5		-		+
	I Distant							
28	iP	21	52	25				
	eS			54				
	iS			56				
	Trace Regional							
29	iP	16	38	11				
	Trace Distant							
29	iP	18	09	28				
	I Distant							

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	BOULDER CITY								OVERTON								PIERCE FERRY							
Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	eP	19	10	26.5													iP	19	10	35				
	iP			28.2													iP			36.5				
	iP			32.5													iP			42.4				
	i			47.5													i			46				
	iS		11	02.5													i			49				
	Trace Regional - 34°15'N, 116°41'W (P)																i			59				
	Near Baldwin Lake, Calif.																iS		11	20				
29	iP	21	15	48				-									iP	21	15	51.5		-	-	-
	I Distant																I Distant							
30	iP	22	35	19	1.2			-									iP	22	35	17				
	I Distant																I Distant							
30																	iP	01	36	08				
																	Trace Distant							
30	eS	19	35	19.2					0	19	34	55.8					iP	19	35	09.2				
	Trace								iP			58.5		-	-	+	i			15.1				
	Probably NW of Overton								iS?		35	00.1					eS			17.1				
									iSEW			00.4					e			18				
									i			02.9												
									II Local 8 mi															
30									i	21	37.0													
									I Local 8 mi															
31	iP	01	59	11													iP	01	59	18.3		+		+
	i			28													i			24.5				
	i			30.5													i			25.3				
	iS			35.5													i			33.0				
	I Regional																iS			55.5				
	Near Manix Calif. (P)																i	02	00	12				
																	I Regional							
31	eP	02	21	20													iP	02	21	16				-
	e		22	07													e		22	11				
	Trace Regional																							
	Near Jacumba, Calif. (P)																Trace Regional							

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No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E	N	Z
31	iP	06 28 55	1.1			-	iP	06 28.9				-	iP	06 28 53	.9			-
		I Distant						I Distant						I Distant				
31	iP	12 40 14											eP	12 40 20				
	i	32.5											eS	41 00				
	iS	40												I Regional				
		I Regional																
		Near Arton, Calif.?																
31	i	14 19 23											i	14 19 49.7				
	i	51											iP	50.9				
	e	20 00											eS	21 01.9				
	iS	07												Trace Regional				
		Trace Regional																
49 31	eP	15 56 50.1					iP	15 56 43.7					0	15 56 37.0				
	iP	50.5					e	49.7					iP	40.1		+50	-80	+?
	i	52.4					iS	50.2					i	41.0				
	i	55.5						I Local 31 mi					iS	42.3				
	i	56.9												I Local 9.3 mi NNW				
	i	58.3																
	iS	59.6																
	iS	57 00.1																
	i	03.8																
		Trace Local 48.5 mi																
		Epicenter on W side of Grand Wash - 9 mi NNW Pierce Ferry																
31							i	20 35.0										
								I Local 10 mi?										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . September, 1947

The stations at Boulder City, Overton and Pierce Ferry operated on routine schedules throughout September, 1947

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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date Sept.	G. C. T.	Location of Epicenters
50	22	09:44:09.5	5 mi NE of Hoover Dam (Provisional - no NS control)
51	25	13:57:56.4	8 mi SSW of Hoover Dam
52	25	13:59:55.4	8 mi SSW of Hoover Dam
53	28	18:57:02.3	7 mi NW of Hoover Dam
54	28	19:10:12.2	6 mi S of Hoover Dam
55	30	03:05:22.6	6.8 mi SW of Hoover Dam
56	30	04:24:52.9	6.8 mi SW of Hoover Dam
57	30	21:57:21.3	5.5 mi SSW 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 Sept.	G. C. T.	Intensity and Description
51	25	13:57:56.4	IV at Boulder City (felt by several; rattled windows).
52	25	13:59:55.4	IV at Boulder City (felt by several; rattled windows).
	26	9:10	II at Boulder City (felt by observer).
55	30	03:05:22.6	III at Boulder City (felt by few).
56	30	04:24:52.9	IV at Boulder City (felt by several, rattled windows).
57	30	21:57:21.3	IV at Boulder City (felt by several, rattled windows).

Confidential - not for publication

International Seismological Centre

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No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
1									
1		eP	02	27	23				
		i			28				
		iP			29				
		eS			58				
		I Regional							
1		i	02	39.0					
		Trace Local - 5 mi							
2		iP	14	44	20.5			-	
		i		45	22				
		eS		54	05.5				
		I Distant							
		COS: 20°S, 179°W; (Tonga Is.); Depth 200 km; O = 14:32.3							
2		iP	15	15	05.6		-	+	-
		iS			06.9				
		I Local							
3		iP	02	57	44.5				
		iS			59.8				
		I Local							
3		eP	15	37	33.5				
		I Distant							
3		eP	19	09	27				
		I Distant							
		COS: 11°S, 162°E; Solomon Islands; O = 18:58.4; Magnitude 6-1/2							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		1(P)	01	46	07.8				
		i			17				
		Distant?							
		iP	02	27	01.5	3.5			
		iP			03.0	.4			
		i			08.3				
		i			12.5				
		i			17.8				
		eS			44				
		i			53				
		i			56				
		I Regional							
		iP	14	44	24				
		i		45	25				
		eS		54	13				
		i			16				
		iP	15	37	36				
		i		38	06				
		eP	19	09	00				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
4	iP	00 41 56.5													iP	00 42 00					
	I Distant																				
	COS: 15°S, 174°W; Samoa Is.; O = 00:30.2; Magnitude 6½																				
4	eP	08 52 50													eP	08 52 49					
															iP	59					
	I Distant														i	53 45					
5	eP	05 48 02													iP	05 47 59					
	I Distant																				
7	iP	05 17 16.8		+	-	+															
	iS	18.0																			
	I Local																				
8															e	05 53 51					
															e	54 59					
															I Regional						
															P: Felt at Reno, Nevada						
8	eP	07 14 05.2													eP	07 13 59					
	i	15 12.8													i	14 17.5					
															i	15 28					
	I Regional																				
	P: Felt at Reno, Nevada																				
8	eP	11 18 34.3													iP	11 18 42.5					
	iP	48.1		+	-										i	43.2					
	iP	48.7													i	44.0					
	iP	49.8													iS	49.4					
	i	19 03.5																			
	iS	04.5																			
	i	06.0																			
	I Regional																				
9															e	22 42 39					
															I Distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF September 1947 3.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
Aug. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
10																	eP	07	47	05.6				
																	eS			30.1				
																	e			31.8				
																	I Regional							
11																	iP	00	05	04.6				
																	iS			37.2				
																	Trace Regional							
12	iP	11	50	49													eP	11	50	14				
	I Distant																							
13	eP	04	03	02													iP	04	03	00				
	e			53													i			12.5				
	I Distant																i		04	05				
13	eP	05	07	14													eP	05	07	16				
	Trace Distant																							
13	eP	08	03	56																				
	Trace Local																							
14																	iP	05	25	15				
																	Trace Distant							
14	iP	05	53	37.7																				
	iS			39.2																				
	I Local																							
14	iP	13	09	00.6																				
	iS			02.7																				
	I Local																							
14	iP	19	02	41.0																				
	iS			42.0																				
	I Local																							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947 4.

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
15	eP	00 16 06.1			eP	00 16 17.5			eP	00 16 10.9		
	iS	30.7			e	18.5			iS	20.7		
		I Regional			iS	49.5			iL	22.7		
15									e	06 27 35.1		
									e	28 19.7		
										I Regional		
15	eP	12 03 37							e	12 03 33.0		
		I Distant							i	44.5		
									i	05 12.5		
15	e	12 25 53							eP	12 25 30.5		
		I Distant										
15	e	12 32 34							e	12 30 47.0		
									e	31 09.0		
		II Distant							e	33 06.5		
15									iP	12 40 11.2		
									iS	23.8		
									i	41 40.5		
										II Distant		
15	eP	15 04 24			eP	15 04 24						
		I Distant										
15									e	16 48 51.4		
									e	49 07.9		
										I Distant		
15									e	18 06 36.0		
									i	54.3		
										I Distant		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF September 1947 5.

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15								
16	eP	01	52	53.5				
	e		54	25.5				
	I Distant							
16								
16								
16	eP	06	26	23.5				
	Trace Distant							
16								
16								
16								
17	iP	13	25	49.6		-	+	+
	iS			50.4				
	I Local							
17	eP	23	12	58.5				
	iS		13	01.8				
	I Local							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	19	01	31.5				
e			56.7				
e		03	04.6				
I Distant							
eP	01	52	58				
e		53	09				
eP	02	00	20.3				
i			26.3				
iS			44.8				
I Regional							
e	04	49	09.7				
Distant?							
e	06	25	58.2				
i		27	24.2				
i		28	24.2				
eP	08	45	40				
I Distant							
eP	11	29	29				
Trace Distant							
eP	13	04	15.5				
Trace Distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
19	iP	10 35 01				-		iP	10 35 02						iP	10 34 59		+			
		I Distant																			
		Deep Focus?																			
19	i	11 04 00.8				+															
	i?	02.1																			
		Trace Local																			
20	eP	14 57 29.5													iP	14 57 31.5					
	iS	52													i	40					
		I Regional													iS	58 13					
20	eP	23 33 25.0													iP	23 33 23.5				+	
		I Distant																			
22	e	02 19 10													e	02 19 15					
		Trace Distant																			
		COS: 43°N, 128°W;																			
		Off Oregon Coast; O = 2:16.1																			
22															i	03 59 52					
															i	04 05 09					
															e	22 19					
																I Distant					
22	iP	09 44 09.5		+	+	-									eP	09 44 16.6					
(50)	iS	11.9													iS	25.0					
		I Local - 10 mi NE														38.5 mi NW					
		Provisionnal Epicenter No. 50 no NS control																			
		5 mi NE of Hoover Dam																			
22															iP	12 39 44.1				-	
															iS	45.0					
																I Local					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947 7.

Time used is GCT

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E N Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E N Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E N Z
23	eP	06 21 03.6			eP	06 20 59.5			iP	06 22 08.7		
	iP	04.5			i	21 00.5			i	10.4		
	i	05.6			i	10.9			is	35.5		
	is	23.8			is	14.1						
	i	33.0			i	16.5						
		II Regional										
		P: 37°09'N, 116°W; Nevada										
		Magnitude 3.5										
23	iP	07 49 01			iP	07 48 58.0			iP	07 49 04		-
		I Distant										
		CGS: 54°N, 164°W; Aleutian Is.;										
		O = 7:41.7										
23	eP	13 55 03.0			eP	13 55 24			eP	13 55 29		
		I Distant							i	31		
		CGS: 41°N, 125°W; O = 13:53.1							is	56 39		
		Reported felt at Eureka, Calif.										
24									iP	18 22 31		
										I Distant		
25									e	07 19 53		
										I Distant		
25									e	09 40 52		
										I Distant		
25 (51)	iP	13 57 56.4		- +? +	eP	13 58 07.3			iP	13 58 08.2		+ -7 +12
	is	57.8			i	11.9			i	09.1		
					is	14.3			i	09.9		
									i	12.1		
									is!	17.6		
		III Local - 4.8 mi SE				47.5 mi				46.5 mi		
		Felt at Boulder City by Several				Epicenter No. 51 - 8 mi SSW of Hoover Dam						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947 8.

Time used is GCT

No. Date	Phase	BOULDER CITY Time h m s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h m s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h m s	Period T	Trace Amplitude E	N	Z
25 (52)	iP	13 59 55.4		-	+	+	eP	14 00 06.2					iP	14 00 05.9		+	+7	+12
	iS	56.8					i	12.2					i	10.1				
							i	13.0					iS	14.8				
							iS	17.1					iS!E	15.4				
													Z?	16.1				
		II Local - 4.8 mi SE						47.5 mi						46.5 mi				
		Felt at Boulder City by Several																
								Epicenter No. 52 same as No. 51										
25	iP	14 03 53.7																
	iS	54.6																
		I Local																
25	eP	01 36 41						Trace					eP	01 36 38				
		Trace Distant												Trace Distant				
25													iP	19 21 52.6				
													iS	22 01.6				
														I Local				
25	iP	23 50 22.8		+		+												
	iS	23.8																
		I Local																
26							eP	06 19 44										
								I Distant										
26							eP	08 27 28					iP	08 27 32				
								I Distant										
26							eP	09 12 03										
								I Distant										
26							eP	11 02 47					iP	11 02 52				
							iS	03 07					iS	03 09				
								I Regional										

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947 — 9.

Time used is GCT

No. Date	Phase	BOULDER CITY Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	OVERTON Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	PIERCE FERRY Time h	m	s	Period T	Trace Amplitude E	N	Z
26	iP	16	15	29					iP	16	15	27					iP	16	15	31				
	iPP		19	20													iPP		19	19				
	e			35													iS		26	02				
	eS		25	58																				
	II Distant																							
	CGS: 26°N, 126°E; Off China Coast																							
	h = 200 km; O = 16:02.3																							
26	iP	22	53	19.2				-																
	iS			20.3																				
	I Local																							
27																	i	03	23	41.3				
																	i			48.2				
																	I Regional							
27	eP	22	06	25.3		-?	?+	+	e(P)	22	06	49					e(P)	22	06	41.1				
	iP			26.2													iS			50.1				
	iP			27.5													iS			50.7				
	iS			28.8																				
	I Local - 16.8																							
27	eP	22	21	20					eP	22	21	20					iP	22	21	16				
	Trace Distant																							
28									eP	11	56	50					eP	11	56	46				
									I Distant															
28	eP	14	33	14.4					iP	14	33	23.7					eP	14	32	49.6				
	iS			37					i			41.9					i			55.7				
	I Regional								iS			46.9					i			57.8				
	P: 34°58'N, 116°30'W;																i		33	02.0				
	Near Manix, Calif.;																i			17.3				
	Magnitude 3.2																							
28																	eP	17	34	06				
																	Trace Distant							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF September 1947 10.

Time used is GCT

No. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
28	BOULDER CITY	iP	18 22 32.4				-
		iS	33.6				
		Trace Local					
28	BOULDER CITY	iP	18 29 33.1				-
		iS	34.4				
		Trace Local					
28	BOULDER CITY	iP	18 29 40.9				-
		iS	30 42.4				
		Trace Local					
28	BOULDER CITY	iP	18 38 27.3				-
		iS	28.7				
		Trace Local					
28 (53)	BOULDER CITY	iP	18 57 02.3		+	+	-
		iS	04.2				
		I Local - 7½ mi NE					
28 (54)	BOULDER CITY	iP	19 10 12.2		+	-	-
		iS	13.7				
		II Local - 5½ mi SE					
28	BOULDER CITY	iP	23 28 53.1		+	+	-
		iS	54.6				
		I Local					
28	BOULDER CITY	iP	23 30 05.8		+?	+?	-
		iS	07.3				
		I Local					

No. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
28 (53)	OVERTON						
		Epicenter No. 53 - 7 mi NW of Hoover Dam					
28 (54)	OVERTON	iP	19 10 22.0				
		eS	33.6				
		45 mi S					
		Epicenter No. 54 - 6 mi S of Hoover Dam					
28	OVERTON						
28	OVERTON						

No. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
28	PIERCE FERRY	iP?	18 38 45.5				
28 (53)	PIERCE FERRY	iP	18 57 11.8				
		i	18.5				
		iS	20.8				
		45 mi NW					
28 (54)	PIERCE FERRY	iP	19 10 22.0				
		i	28.8				
		iS	30.7				
		44 mi SW					
28	PIERCE FERRY	e(P)	23 30 19.2				
		iS	27.2				
		Trace Local					

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947 11.

Time used is GCT

BOULDER CITY

OVERTON

PIERCE FERRY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
28	iP	23 54 52.7				-												
	iS	54.0																
		Trace Local																
29	iP	02 45 28.8																
	iS	31.0																
		Trace Local																
29	iP	06 47 34.8		+?	+?	-							e(P)	06 47 42.3				
	iS	37.1											i(S)	51.4				
		I Local																
29							eP	09 02 18.7					iP	09 02 20.0				
							i	22.2					iS	03 17.9				
							i(S)	52.2										
							i	03 02.8										
								I Regional										
29	iP	13 04 22				-		Trace										
	iS	24.5																
		I Local																
29	iP	13 15 02.1																
	iS	03.5																
		I Local																
30	iP	03 04 53.6		-	+	+							i(S)	03 05 15.1				
	iS	54.9											i	15.8				
		I Local																
30 (55)	iP	03 05 22.6		-	+	+	eS	03 05 39.3					iP	03 05 33.6		+15	+6	+25
	iS	23.7					i	41.0					iS	42.6				
		II Local - 3 mi SE					iSL	44.5					iS	43.6				
		Felt at Boulder City by several.						Trace Local - 46 mi					i	44.8				
								Hoover Dam						Trace Local - 46.5 mi				
								S - P = 1.7 sec.										

Epicenter No. 55 - 6.5 mi SW of Hoover Dam

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF September 1947 12.
Time used is OCT

No. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Remarks
(56) 30	BOULDER CITY	iP	04 24 52.9		-	+	+	
		iS	55.4					
			II Local - 3 mi					
			Felt by several at Boulder City.					
	OVERTON	iP	04 25 08.8					
		i	10.2					
		i	14.2					
		iS	18.2					
		i(SL)	20.3					
			46 mi					
			Hoover Dam					
			S - P = 1.7 sec.					
			Epicenter No. 56 same as No. 55					
	PIERCE FERRY	iP	04 25 07.3		+15	+	+30	
		iS	16.1					
		iS!	16.6					
			46.5 mi					
30	BOULDER CITY	iP	13 04 21.6		-	+	+	
		iS	23.0					
			I Local					
30	PIERCE FERRY	i	14 13 24.0					
			Trace Local					
30	BOULDER CITY	iP	21 33 05.7		+	-	-	
		iS	07					
			I Local					
	OVERTON		Hoover Dam					
			S-P = 1.5 sec.					
(57) 30	BOULDER CITY	iP	21 57 21.3					
		iS	25.8					
			I Local - 4 mi					
			Felt by several at Boulder City.					
	OVERTON		Time?					
	PIERCE FERRY	iP	21 56 33.0		+20	+30	+40	
		i	34.3					
		iS	41.5					
		i	42.7					
			44.7 mi					
			Epicenter No. 57 - 5.5 mi SSW of Hoover Dam					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . October, 1947

The stations at Boulder City, Pierce Ferry operated on routine schedules throughout October. Overton station temporarily discontinued.

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. Regional shocks are from 70 to 700 miles from the station, and distance shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date Oct.	G. C. T.	Location of Epicenters
58	1	08:04:50.0	7 miles W of Hoover Dam
59	1	11:01:34.9	7 miles W of Hoover Dam
60	21	11:44:39.7	8.5 miles SW of Hoover Dam
61	26	18:54:32.3	6.5 mi NW of Pierce Ferry
62	28	21:18:40.4	14 miles SSE of Hoover Dam

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

No.	Date Oct.	G. C. T.	Intensity & Description
60	21	11:44:39.7	IV at Boulder City (felt by several; rattled windows).

International Seismological Centre

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Bureau of Reclamation, National Park Service
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MONTH OF October 1947

Time used is GCT

M 10734

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
							No Time Control											
1 (58)	iP iS	08 04 50.0 51.2		-10	-?	+							i(S)	08 05 11.6 50 mi				
		I Local - 3 mi W																
							Epicenter NO. 58 - 7 mi W of Hoover Dam											
1							ePE	10 03 54 Trace Regional					eP i(S)	10 03 57 04 13				
1							eP iS	10 12 43 52										
								Trace Local										
1 (59)	iP iS	11 01 34.9 36.1		-20	-?	+	eZ	11 01 52 Trace Local					i(S)	11 02 56.5 Trace Local 50 mi				
		I Local - 3 mi W																
							Epicenter No. 59 - same as No. 58											
1	iP	12 36 32 Trace Distant					iP	12 36 22					iP	12 36 29				
1	eP e(pP)	12 44 24 54					iP ipP	12 44 26 59					iP i(pP)	12 44 27 57				
		Trace Distant BCIS: 13°S, 167°E; 0 = 12:31.6; h = 100 km																
1							e	17 39 57 Trace Distant					e	17 39 53				
1		Obscured					iP	19 12 09.5 Trace Distant					iP	19 12 05				
1	iP	21 36 00 Trace Distant					iP	21 36 02					iP	21 36 25				
1 - 2	5	Traces Local - 5 mi																

International Seismological Centre

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and Coast and Geodetic Survey

MONTH OF October 1947
Time used is GCT

M-1073-4

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
2						
2	e	05 03 21				
		Trace Distant				
2	iP	10 00 06				
	ipP	47				
		I Distant				
2						
2 - 3	3	Traces Local - 5 mi				
2	iP	22 49 27				
		Trace Distant				
3	e	05 13 34				
		Trace Distant				
3	iP	06 32 49				
	ipP	34 17				
	iPP	36 07				
	eS	42 38				
		I Distant				
		CMO: 31.5°N, 139°E; h = 350 km				
3	iP	08 16 15				
	i(pP)	27				
	i	17 43				
	e(S)	23 41				
		I Distant				
		CGS: 16.5°N, 99°W; 0 = 08:11.0				

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON						
	e	05 04 09				
	iP	10 00 21				
	i(pP)	01 02				

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY						
	e	03 05 35.5				
		Trace Distant				
	e	05 03 22				
	iP	10 00 08				
	ipP	49				
	e	03 33				
	eP	21 29 09				
	eS	27				
		Trace Regional				
	iP	22 49 22				
	e	05 13 23.5				
	eP	06 32 36				
	iP	51				
	ipP	34 20				
	iPP	36 10				
	eS	42 36				
	eP	08 16 11				
	i(pP)	21				
	i	32				
	i	17 20				
	eS	23 29				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF October 1947

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
3									i(P)	09 26 11		
									e	33 08		
										Trace Distant		
3									eP	19 17 05		
									eS	30		
										Trace Regional		
3	iP	23 36 54							iP	23 36 55.5		
	ipP	37 11							pP	Trace thins out		
	iPP	24							iPP	37 35		
	i	54							iPcP	40 41		
	eS	43 51							iS	43 48		
		II Distant										
		CGS: 19°N, 102°W; 0 = 23:32.2; h = 100 km										
4	e	00 10 59							e	00 11 02		
		Trace Distant										
4									e	05 13 24		
										Trace Distant		
4									iP	05 59 36.7		
									iS	53.9		
										Trace Regional		
4									e	07 15 41		
										Trace Distant		
4	eP	08 43 16							iP	08 43 21		
		Trace Distant										
4	eP	10 18 ~~43~~ 13							eP	10 18 18		
		Trace Distant										
4									e	11 44 48		
										Trace Distant		

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Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
4	e(P)	15 43 31													i(P)	15 43 35					
		Trace Distant																			
4															iP	18 18 18					
																Trace Distant					
4 - 5	4	Traces Local - 5 mi																			
5															i	02 48 13					
																Trace Distant					
5	eP	06 28 22													eP	06 28 15					
		Trace Distant													iP	25					
5	iP	06 34 49													iP	06 34 52					
	i(pP)	35 04													i(pP)	35 06					
		Trace Distant																			
5	e	18 55 10													eP	18 55 21					
	e(PP)	59 20													e(PP)	59 22					
	e(PKKP)	19 10 10													e(PKKP)	19 10 03					
		Trace Distant																			
		CGS: 3°S, 140°E; O = 18:41.0																			
5 - 6	3	Traces Local - 5 mi																			
6	eP	05 11 26													eP	05 11 34					
	i	52													i	12 16					
		Trace Regional																			
6															e	07 23 52					
																Trace Distant					
6	eP	18 53 36													eP	18 53 32					
		Trace Distant																			
6	iP	20 09 14													iP	20 09 12					
	iPP	13 10													iPP	13 09					
	eP'P'	34 30													eP'P'	34 29					
		I Distant																			
		GCS: 37°N, 21°E; O = 19:55.6																			

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Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
7															iP	00 16 44					
															Trace Distant						
7	iP	02 00 16.5													iP	02 00 19					
	e(PcP)	02 43													iPcP	03 06					
	e(S)	06 35													i(SS)	07 36					
	eP'	12 50													e(P')	13 44					
	eL	15 15													eL	14 13					
	I Distant																				
	CGS: 64.5°N, 146°W; 0 = 01:53.4																				
7	e	03 04 25													e	03 04 25					
	Trace Distant - Aftershock																				
7	e	04 48 25													e	04 48 29					
	Trace Distant																				
7	iP	17 20 12.5		-10	+?	+									i(S)	17 20 34.5					
	iS	14.3																			
	I Local																				
8															iP	15 44 49					
															Trace Distant						
8	e	18 08 34													e	18 08 33					
	Trace Distant																				
8	iP	23 49 17.5		-10	+40	+									i	23 49 41.2					
	iS	18.9																			
	I Local																				
8 - 9	2	Traces Local - 5 mi																			
9															iP	03 38 34					
															Trace Distant						

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9	iP	08	37	18.6		+60	-60	+
	iS			35.9				
	II Regional							
9	iP	11	35	36.7		-	+	+
	iS			38.0				
	I Local							
10	iP	02	51	46				
	Trace Distant							
10	eP	07	43	28				
	iPcP			36.0				
	i			46.0				
	ePP		45	51.5				
	i		46	17				
	I Distant							
	CGS: 40°N, 144°E; 0 = 07:32.3; h = 300 km							
10	e(P)	13	55	35				
	Trace Distant							
	CGS: 30°S, 180; 0 = 13:42.6							
10	eP	19	44	21.5				
	e(S)			56				
	Trace Regional							
11								
11	(i)	14	25	21				
	Trace Distant							
11	e	22	04	33				
	Trace Distant							

OVERTON

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
9	eP	08	37	28.2				
	iP			30.2				
	iS			55.4				
9	i	11	36	00				
10	iP	02	51	50				
10	eP	07	43	34.5				
	iPcP			40				
	i		46	16				
10	i(P)	13	55	43				
	i(pP)			59				
10	eP	19	44	19				
	iP			25.5				
	eS			58				
11	e	04	15	47				
	Trace Distant							
11	e	22	04	36				

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
13	i	01 13 11				
		Trace Distant				
13	eP	07 26 08				
	iL	28.0				
		Trace Regional				
13	eP	14 07 31				
	e(S)	08 08				
		Trace Regional				
14	eP	01 54 15				
		Trace Distant				
		CGS: 33°S, 180; 0 = 01:41.1				
14	eP	07 30 54				
		Trace Local				
14						
15	eP	04 16 22				
		Trace Distant				
15	iP	08 58 51.5				
	i	59 06				
	eL	09 03.0				
		Trace Distant				
15	iP	19 41 31				
	iScP	47 52				
		Trace Distant				
15						

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
i	01 13 13.5				
eP	07 26 18				
e(S)	27 10				
eP	14 07 37				
i(S)	55				
eP	01 54 14				
eP	07 30 42.5				
iS	52				
e	15 26 34				
	Trace Distant				
eP	04 16 24				
iP	08 58 57				
eL	09 03.0				
eP	19 41 33				
i	50				
iScP	47 49				
eP	22 22 04.5				
iS	06				
	Trace Local				

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Time used is GCT

No. Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	02	16	39													iP	02	16	41				
	ipP			51													ipP			58				
	iPP		17	56													iPP		18	00				
	iPPP		18	10													iPPP			15.5				
	i(S)		21	36													iS		22	18				
	iS		22	11													i(SS)		23	08				
	i(SS)		23	04													iL		26.0					
	i		27	36																				
	III Distant																							
	CGS: 64.5°N, 148.8°W; O = 02:09:45																							
16	eP	09	29	05													iP	09	29	11				
	Trace Distant																							
16	eP	11	29	36													eP	11	29	37				
	Trace Distant																							
16	iP	14	25	00													iP	14	25	03.5				
	Trace Distant																i			58				
17	e	00	48	57																				
	Trace Distant																							
17	iP	04	15	23													iP	04	15	20				
	e			25																				
	Trace Distant																							
	BCIS: 10°S, 75°W; h = 200 km																							
17																	eP	08	25	16				
																	Trace Distant							
17	eP	10	29	56													iP	10	30	01				
	Trace Distant																							
17	e	11	52	26													e	11	52	29				
	e			58													i			56				
	Trace Distant																							

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Time used is GCT

M-1073-4

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
17	eP	14 03 45							iP	14 03 42.5		
	e(pP)	53							i(pP)	51.5		
	Trace Distant											
	P: Andes											
17									e	21 19 34		
									Trace Distant			
18	iP	01 13 23							iP	01 13 26		
	ipP	40							ipP	43		
	Trace Distant											
	P: Kermadec Islands											
18	eP	04 09 51							eP	04 09 44		
	Trace Distant											
18	e	13 01 17							e	13 01 15		
	Trace Distant								i	20		
18	e(S)	16 32 02							eP	16 31 21		
	Trace Regional								e(S)	32 19		
18	e	19 20 50.5							iP	19 20 30.7		
	iS	21 12.5							iS	53.4		
	I Regional											
18	eP	20 27 49							iP	20 27 51		
	Trace Distant											
18									iP	21 05 48		
									Trace Distant			
18	e	23 07 16.5							e	23 07 18		
	Trace Distant											
19	iP	12 49 45							iP	12 49 45		
	iPcP	52 15.5										
	iScP	56 01.5										
	Trace Distant											

International Seismological Centre

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Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
20	iP	01	50	10				
	ipP			21.5				
	iPP		51	41.5				
	i(PPP)			54.5				
	iS		55	13				
	iSS		56	05				
	eL			59.6				
	I Distant							
	CGS: Aftershock of Oct. 16, 02 h; 0 = 01:43:16							
20	eP	02	40	39				
	Trace Distant							
	Aftershock							
20								
20	eP	03	05	28				
	Trace Distant							
	Aftershock							
20	i	04	21	05				
	Trace Distant							
	Aftershock							
20	e	07	57	18				
	Trace Distant							
20	iP	12	27	49				
	ipP		28	03				
	Trace Distant							
20 - 21	e3	Traces Local - 5 mi						
21	eP	09	57	02				
	ipP			11				
	Trace Distant - P: Alaska							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	01	50	10				
ipP			22				
iPP		51	40				
i(PPP)			50				
iS		55	08				
iSS			59				
eL			59.5				
eP	02	40	40				
e(P)	03	03	48				
Trace Local							
eP	03	05	29				
e	04	21	06				
e	07	56	51				
i		57	21.5				
iP	12	27	52				
ipP		28	08				
iP	09	57	05				
ipP			14				

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Time used is GCT

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
21 (60)	iP	11 44 39.7		-177	+240	+
	iS	40.9				
	III Local - 3.6 mi SSE					
22	iP	01 57 29				
	Trace Distant					
22	iP	06 31 18.4		+	+	-
	iS	19.5				
	I Local					
22	iP	11 50 11.9				
	iS	13.2				
	I Local					
22	e	17 36 17				
	Trace Distant					
22						
22	e	23 32 15				
	Trace Distant					
23	e(P)	04 43 37				
	e	45 05				
	i	52 05				
	i(L)	55.0				
	Trace Distant					
23	iP	11 55 09.5				
	i	43				
	Trace Distant					

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON						
		HOOVER DAM				
	eP	11 44 40.6				
	iS	42.7				
	8.5 mi SW					
	Epicenter No. 60 - 8.5 mi SW of Hoover Dam					

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	i(P)	05	24	29				
	Trace Distant							
24	iP	06	59	18				
	iPcP	07	02	07				
	e		15	58				
	Trace Distant							
24								
24	i(P)	14	18	25				
	i		19	27				
	I Regional							
24								
24								
24								
24								
24								
24								

OVERTON

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	i(P)	05	24	33				
24	iP	06	59	14				
	iPcP	07	02	05				
	i		16	01				
24	i	07	56	32				
	Trace Distant							
24	eP	14	18	15				
	i			30				
	i		19	33				
24	eP	14	40	16				
	iS			27.6				
	Trace Regional							
24	iP	17	12	02				
	iS			14				
	Trace Local							
24	eP	19	15	57				
	e		17	05				
	Trace Distant							
24	eP	20	56	36				
	iS		57	05				
	I Regional							
24	e	22	43	52				
	Trace Distant							
24	eP	23	28	12				
	iS			26				
	Trace Local							

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
25	iP	10	56	16				
	iS			58				
	I Regional							
25	e	14	45	51				
	i		46	14				
	e(S)		47	12				
	Trace Regional							
25								
25	eP	17	53	35				
	eS			58				
	Trace Regional							
25	eP	19	21	15				
	iS			51				
	I Regional							
26	eP	03	03	25				
	i		04	20				
	Trace Regional							
26								
26								
26	eP	13	06	55				
	Trace Distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	10	56	12				
i			22				
iS		57	01				
eP	14	45	21				
i			41				
iS		46	54				
e(P)	17	43	59				
iL		45.0					
Trace Regional							
eP	17	53	45				
iS		54	18				
eP	19	21	23				
i			33				
iS		22	11				
e(P)	03	03	35				
i			42				
i		04	26				
eP	03	55	08				
iS			16				
Trace Local							
e	09	33	12				
Trace Distant							
eP	13	06	58				
epP		07	10				

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
26	iP	18 54 32.3		?	?	+							iP	18 54 22.9		+	-	+
(61)	i(S)	42.8											iS	24.6				
		Trace Local - 43.7 mi NE												II Local - 6.5 mi NW				
								Epicenter No. 61 - 6.5 mi NW of Pierce Ferry										
26													iP	19 56 35.5				
														Trace Distant				
26													e	20 51 27.5				
														Trace Distant				
26-27	3	Traces Local - 5 mi																
27													eP	00 35 24				
														Trace Distant				
27													e	02 07 47				
														Trace Distant				
27													eP	02 17 51				
														Trace Distant				
27	iP	03 55 16.6		+	-	+												
	iS	18.7																
		I Local																
27													iP	03 56 21.7		-	+	+
													iS	46.7				
														I Regional				
27	eP	04 16 20.5											iP	04 16 12				
	iS	17 00											iS	38.6				
		II Regional																
		P: Felt Flagstaff, Arizona																

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Time used is GCT

No. / Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
27	eP	05 02 33											eP	05 02 35.5				
		Trace Distant																
27													e	08 05 06				
														Trace Distant				
27	eP	11 24 55											eP	11 23 54				
		Trace Distant																
28	e	00 44 11											eP	00 43 39				
		Trace Distant																
28	e	03 16 06											e	03 16 26				
		Trace Distant											e	23 58				
28	e	09 48 26											iP	09 47 56				
		Trace Distant											i	10 01 51				
28	iP	10 10 34											iP	10 10 29				
		Trace Distant																
28	e(S)	12 24 36											e(S)	12 24 32				
		Trace Distant																
28	eP	15 46 55											iP	15 46 58				
		Trace Distant																
28													iP	19 52 11		-	-	+
													iS	24				
														Trace Regional				
28	iP	21 18 40.4		-	+	+							iP	21 18 46.3		+	+	+
(62)	iS	43.8											iS	53.5				
		I Local - 16 mi SE												I Local - 39 mi SW				

Epicenter No. 62 - 14 mi SSE of Hoover Dam

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BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
29						
29	iP	12 10 20.5				
	epP	47.5				
	Trace Distant					
	CMO: 47.7°N, 145.4°E; h = 60 km					
29 - 30	3	Traces Local - 5 mi				
30						
30	e	03 56 27				
	Trace Distant					
30 - 31	3	Traces Local - 5 mi				
31						
31	eP	01 42 03				
	Trace Distant					
31						
31	iP	12 19 40				
	Trace Distant					
31						

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eP	00 00 25				
e(S)	05				
Trace Regional					
iP	12 10 23.5				
i(pP)	50				
i	15 49				
i(P)	02 54 19				
Trace Distant					
e	03 57 26				
e	00 45 08				
Trace Distant					
eP	01 42 06				
eP	02 40 57				
Trace Distant					
iP	12 19 45.5				
i(P)	12 59 07				
Trace Distant					

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF October 19 47 17.

Time used is GCT

BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z			Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
31	eP	13 21 51														eP	13 22 58.5					
		Trace Distant																				
31		Station Out														iP	17 59 02					
																	Trace Distant					
31																iP	18 08 45.5					
																iS	57.0					
																	Trace Local					
31																iP	23 12 33					
																	Trace Distant					

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . November, 1947

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout November.

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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date Nov.	G. C. T.	Location of Epicenters
63	12	01:44:48.6	15 miles North of Hoover Dam.
64	12	01:54:03.7	8 miles East of Hoover Dam.

No earthquakes were reported felt in the Lake Mead region during November.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 19 47 1.

Time used is GCT

M-1073-4

	BOULDER CITY						OVERTON						PIERCE FERRY					
N Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
1		Station Program Device Out						Station Discontinued										
													e	01 51 37				
													i	52 04				
														Trace Distant				
1													iP	01 54 51.5				
													iS	53				
														Trace Local				
1													eP"	06 19 03				
													iSKP	21 31				
													i	22 30				
														Trace Distant				
														BCIS: 4°S. 102.5°E; 0 = 05:59.5				
1													eP	15 08 56				
													i	09 21.5				
													iPP	11 28				
													i	13 58				
													iScP	16 56				
													i(S)	17 28				
													i(P'P')	51 41				
														I Distant				
														CGS: 11°S. 75°W; 0 = 14:58:50				
1													eP	16 29 39				
													i	48				
													i	30 35				
														Trace Regional				
1													e	16 34 24				
														Trace Distant				
1													eP	16 58 09				
														Trace Distant				
														Aftershock of 15-08				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF November 19 47 1.

Time used is GCT

M-1073-4

	BOULDER CITY							OVERTON							PIERCE FERRY						
N Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1		Station Program Device Out								Station Discontinued							e	01	51	37				
																	i		52	04				
																		Trace Distant						
1																	iP	01	54	51.5				
																	iS			53				
																		Trace Local						
1																	eP"	06	19	03				
																	iSKP		21	31				
																	i		22	30				
																		Trace Distant						
																		BCIS: 4°S. 102.5°E; 0 = 05:59.5						
1																	eP	15	08	56				
																	i		09	21.5				
																	iPP		11	28				
																	i		13	58				
																	iScP		16	56				
																	i(S)		17	28				
																	i(P'P')	51	41					
																		I Distant						
																		CGS: 11°S. 75°W; 0 = 14:58:50						
1																	eP	16	29	39				
																	i			48				
																	i		30	35				
																		Trace Regional						
1																	e	16	34	24				
																		Trace Distant						
1																	eP	16	58	09				
																		Trace Distant						
																		Aftershock of 15-08						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF November 1947

Time used is GCT

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
1	PIERCE FERRY	iP	17	09	11.6				
		iS			13.2				
		Trace Local							
1	PIERCE FERRY	e	17	21	23				
		Trace Distant							
1	PIERCE FERRY	e	19	01	05				
		Trace Distant							
		Aftershock of 15-08							
1	PIERCE FERRY	e	19	15	38				
		Trace Distant							
1	PIERCE FERRY	eP	21	02	30.7				
		iS			40.4				
		Trace Local							
1	PIERCE FERRY	e	21	51	07				
		Trace Distant							
2	PIERCE FERRY	eP	00	16	02				
		Trace Distant							
		Aftershock of 15-08							
2	PIERCE FERRY	iP	01	02	41.5				
		i			47				
		i(S)		03	19				
		Trace Regional							
2	PIERCE FERRY	iP	01	42	26				
		Trace Distant							
		Aftershock of 15-08							

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Bureau of Reclamation, National Park Service
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MONTH OF November 1947

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2								
2								
2								
3								
3								
3								
3								
3								

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	07	03	11				
i			31				
iS			24				
eL		06.6					
	I Distant						
	CGS: 40°N, 127°W; O = 07:00.3						
e(P)	21	29	45				
i			39				
e		38	53				
	Trace Distant						
	P: Peru?						
e	22	22	38				
	Trace Distant						
iP	08	22	08				
i		23	43				
i		24	43				
	Trace Distant						
i	09	57	20				
	Trace Distant						
eP	15	56	04				
i			11				
iL			19				
	I Regional						
e	16	08	20				
	Trace Distant						
iP	18	24	25.5				
i		25	34				
ipP			39				
	Trace Distant						
	P: Near Apia						

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF November 19 47 4.

Time used is GCT

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
4									eP	00 20 53		
									iPP	21 03		
									iPPP	23 03		
									i	53		
									i	25 46		
									i	26 15		
									iS	30 49		
									i(PS)	32 20		
										I Distant		
										CGS: 43°N, 140°E; 0 = 00:09.1		
4									iP	00 31 12		
										Trace Distant		
										Aftershock		
4									iP	00 47 13		
										Trace Distant		
										Aftershock		
4									i	01 41 03		
										Trace Distant		
4									e	02 10 07		
										Trace Distant		
4									e	06 03 18		
										Trace Distant		
4									i(P)	06 15 22		
										Trace Distant		
4									iP	07 08 08		
										Trace Distant		

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

MONTH OF November 19 47 5.

Time used is GCT

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
4									
4									
4									
4									
5									
5									
5									
5									
OVERTON									
PIERCE FERRY									
4		iP	09	58	32				
		i			45				
		i(PP)	10	02	06				
		i(PPP)		04	39				
		iS		11	44				
		Trace Distant							
		BCIS: 23°S, 180°; O = 09:45.8							
4		e(P)	18	17	44				
		Trace Distant							
4		eP	18	29	16				
		i			18				
		Trace Distant							
4		eP	23	25	35.5				
		i(S)			44.0				
		Trace Local							
4		eP	23	29	05.5				
		i			15				
		i		30	02				
		Trace Regional							
5		eP	00	09	57.5				
		Trace Distant							
5		iP	02	15	57				
		ipP		16	28				
		Trace Distant							
5		iP	02	34	23				
		e		37	41				
		Trace Distant							
5		iP	09	52	33				
		Trace Distant							

LAKE MEAD SEISMOLOGICAL STATIONS

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Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
5								
6	eP	10	39	42				
	i		40	07				
	Trace Regional							
6	eP	13	13	04				
	Trace Distant							
	P: Felt at Apia							
7	eP	01	59	20				
	iL			46				
	I Regional							
7	e	03	12	29				
	Trace Distant							
7								
7								
7	iP	05	25	02.5				
	Trace Distant							
7								
7								
OVERTON								
PIERCE FERRY								
	eP	16	08	42				
	i			40				
	Trace Distant							
	iP	10	39	48				
	i			58				
	iL		40	33				
	iP	13	13	07				
	i		14	40				
	eP	01	59	22				
	i			27				
	i			55				
	iL	02	02	06				
	e	03	12	30				
	iP	05	00	47.3				
	iS			48.9				
	Trace Local							
	e	05	12	25				
	Trace Distant							
	iP	05	25	00				
	i			46				
	e(P)	12	16	30				
	i		17	22				
	Trace Distant							
	e(P)	21	15	55				
	Trace Distant							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1947 7.

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
7								
7	iP	23	10	37				
	iPcP		12	05				
	i(PPP)		13	07				
	eS		17	40				
	Trace Distant							
	CGS: 11°S, 75°W; 0 = 23:00.5							
8	iL	03	03	38				
	Trace Regional							
8	iP	04	14	03				
	i			30				
	Trace Distant							
	CMO: 43.6°N, 140.4°E							
8	iP	05	33	30				
	ipP			52				
	Trace Distant							
	CGS: 7°N, 85.5°W; 0 = 05:25.9; h = 100 km							
8								
8	iP	06	57	45				
	e			50				
	Trace Distant							
8	e	15	32	53				
	Trace Distant							
8	e	21	01	12				
	Trace Distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	22	40	36				
i			41				
Trace Distant							
iP	23	10	34				
iPcP		12	05				
eS		17	45				
eP	03	03	02				
iL			58				
(e)	04	13	30				
iP		14	05				
iP	05	33	27				
ipP			50				
i(sP)		34	11				
iS	06	19	54				
Trace Local							
eP	06	56	46				
i		57	54				
i		58	44				
e	15	32	55				
e	21	01	43				

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Bureau of Reclamation, National Park Service
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MONTH OF November 1947 8.

Time used is GCT

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
9								
9	eP	05	10	58				
	iP		11	00				
	i			49				
	iSKS		21	37				
	iS			49				
	iP'P'		37	44				
	I Distant							
	CGS: 23°S, 171°E; O = 04:57.8							
	P: Mag. 7.1							
9	i(P)	07	45	20				
	Trace Distant							
	Aftershock?							
9								
9	e	12	31	37				
	Trace Regional							
9	e	15	19	54				
	e		23	14				
	Trace Distant							
9	e	15	57	39				
	Trace Distant							
10	iP	01	49	29				
	ipP			45				
	trace Distant							

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	e	02	03	19				
	Trace Distant							
	eP	05	11	01				
	iP			04				
	i		12	01				
	i(PP)		14	47				
	eSKS		21	39				
	eS			52				
	e		36	29				
	i(P'P')	37	47					
	e(P)	07	45	18				
	i			23				
	e	09	59	02				
	Trace Distant							
	eP	12	31	25				
	eS		32	01				
	e	15	19	56				
	i	15	57	40				
	iP	01	49	31				
	i			41				
	ipP			47				

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LAKE MEAD SEISMOLOGICAL STATIONS

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Time used is GCT

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	10	iP	02	23	30				
		iSN		24	01				
		iSE			08				
		P: 34°24'N, 116°25'W;							
		O = 02:22:55; Magnitude 4.5							
	10	eP	10	04	58				
		Trace Distant							
	11	e	00	13	53				
		Trace Distant							
	12	iP	01	40	20				
		iS		43	24				
		Trace Distant							
		CGS: 29°N, 114°W; O = 17:39.8; Magnitude 5½							
		One of a swarm beginning about 00-54							
(63)	12	iP	01	44	48.6		-10 -	+33	
		iS			50.9				
		II Local - 18.3 mi NE							
(64)	12	iP	01	54	03.7		-17	-13	+47
		iS			06.7				
		II Local - 14 mi ENE							
	12	iP	02	45	37				
		I Distant							
		CGS: 29°N, 114°W; O = 02:44.0; Magnitude 5½							
		Principal swarm ends about 03:15 with a few shocks later.							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON									
		Epicenter No. 63 - 15 mi N of Hoover Dam							
		Epicenter No. 64 - 8 mi E of Hoover Dam							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY									
		iP	02	23	37				
		iSEN		24	08				
		iP	10	04	59				
		e(P)	00	10	35				
		e		13	02				
		i			53				
		iP	01	40	21				
		i		41	50				
		iS		43	25				
(63)		iP	01	44	53.7				
		iS		45	00.7				
		II Local - 38.8 mi							
(64)		iP	01	54	08.9				
		iS			15.5				
		II Local - 33.5 mi							
		iP	02	45	38				
		i		46	20				
		iS		47	35				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF November 1947 10.

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
12	eP	10 52 19							iP	10 52 24		
		Trace Distant										
		BCIS: 23°S, 171°E; 0 = 10:39.1										
12	iP	16 32 06.5							iP	16 32 09		
	eS	42 41							eS	42 49		
		I Distant										
		CGS: 23°S, 171°E; 0 = 16:18.9										
12									eP	17 19 47		
									i	21 57		
										Trace Distant		
12-13	5	Traces Local - 5 mi										
13	iP	11 32 35							iP	11 32 40		
	i(pP)	33 15							i(pP)	33 22		
		Trace Distant										
13	iP	20 45 45							iP	20 45 47		
		Trace Distant										
13		Obscured							iP	23 50 01		
									ipP	30		
									i	51 02		
										Trace Distant		
										P: Andes ?		
14	iP	00 53 51							iP	00 53 53		
		Trace Distant										
		P: Japan?										
14	e	05 21 30							e	05 21 35		
	e	26 32							e	25 27		
		Trace Distant										

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MONTH OF November 1947 11.

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	iP	07	18	49				
	iS			31				
	I Local							
14	iP	11	01	37				
	ipP		02	24				
	Trace Distant							
	CGS: 46°N. 143°E; O = 10:50.5; h = 200 km							
14 - 15								
14	eP	20	21	40				
	Trace Distant							
15	iP	07	23	07				
	i			30				
	Trace Distant							
15								
15	iP	17	21	09				
	Trace Distant							
	P: South America							
15	iP	19	21	33.6				
	iS			35.4				
	I Local							
15	iP	20	29	37				
	Trace Distant							
16	eP	12	00	29				
	Trace Distant							
16	e	13	10	01				
	Trace Distant							

OVERTON

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	iP	11	01	39				
	ipP		02	24				
	4 traces regional - 150 mi							
	eP	20	21	40				
	iP	07	23	10				
	i			33				
	i(P)	15	43	15				
	Trace Distant							
	iP	17	21	06				
	iP	20	30	40				
	eP	12	00	24				
	e	13	09	57				

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Bureau of Reclamation, National Park Service
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Time used is GCT

BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	17	47	44													iP	17	47	48				
	Trace Distant																i		48	38				
16	e(P)	21	20	28													i(P)	21	20	24				
	i			45													i			41				
	Trace Distant																							
17	eP	01	05	29													eP	01	05	31				
	i			42													i			44				
	Trace Distant																							
17	e(P)	08	18	49													e(P)	08	18	46				
	i		19	04.5													i		19	14				
	i		20	04													i		20	06				
	Trace Distant																							
17	i(P)	10	07	16													i(P)	10	07	10				
																	i			21				
	Trace Distant																i		08	10				
17	i	11	23	38													e(P)	11	23	05				
	Trace Distant																i			40				
17	eP	14	07	39													iP	14	07	37.5				
	iP			42													i			55				
	i			53													iSN		08	17				
	iSE		08	15																				
	II Regional																							
17																	e	14	33	52				
																	Trace Distant							
17	eP	19	08	53.1													Program Device Out							
	iS			56.6																				
	Trace Local																							
18	e	05	28	06																				
	Trace Distant																							

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MONTH OF November 19 47 13.

Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
18	iP	16	47	38													iP	16	47	36				
		Trace Distant															i			50				
		P: South America																						
18	e	17	34	15													iP	17	33	48				
		Trace Distant															i		34	41				
		P: South America																						
18	iP	20	00	19													iP	20	00	37				
	i			23													i			42				
	i			34														Trace fades out						
	i			55																				
	iSE		01	08																				
	iSE			31																				
	III Regional																							
	CGS: 33°16'N, 119°27'W; Magnitude 5;																							
	Felt in Los Angeles, Santa Barbara																							
18																	iP	20	23	37				
																		Trace Distant						
20																	i	06	56	01				
																		Trace Distant						
20	iP	08	30	08													iP	08	30	10.5				
	Trace Distant																							
	CGS: 47°N, 153°E; 0 = 08:19.3																							
20	eP	08	46	15													eP	08	46	19				
	e(S)			40													e(S)			51				
	Trace Regional																eL		47	13				
20	iP	09	48	05													iP	09	48	08				
	epP		50	05													ipP		50	06				
	eP'P'	10	17	20																				
	Trace Distant																							
	P: Tonga Region - 550 km deep																							
	BCIS: 19°S, 179°W; 0 = 09:36.6																							

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1947 — 14.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
20	iP	09 55 03													iP	09 55 07					
		Trace Distant Aftershock													ipP	57 10					
20	iP	11 47 00.6																			
	iS	01.8																			
		I Local																			
21	iP	00 06 00													iP	00 05 58					
		Trace Distant																			
21	eP	03 58 27													iP	03 58 28					
	iSE	04 02 04													eS	04 02 03					
		I Distant																			
		CGS: 19°N, 107°W; O = 03:54:15																			
21	iP	04 21 41													iP	04 21 41					
		Trace Distant Aftershock																			
21	e	04 57 46													e	04 57 43					
		Trace Distant Aftershock																			
21	eP	05 36 59													eP	05 36 58					
		Trace Distant Aftershock																			
21	iP	05 57 53.8																			
	eS	55.0																			
		Trace Local																			
21	iP	08 14 07													iP	08 14 08					
	i(S)	24													i(S)	31.5					
		I Regional																			
21															i	09 50 05					
																Trace Distant					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 19 47

Time used is GCT

M-1073

BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z		Phase	Time h m s	Period T	Trace Amplitude E	N	Z			Phase	Time h m s	Period T	Trace Amplitude E	N	Z	
21	e	09 57 01 Trace Distant														i	09 57 03					
21	iP iL	13 08 56.5 09 24 Trace Regional														iP iL	13 08 58 09 22					
21 - 22	14	Traces Local - 5 mi																				
21	iP	19 15 32 Trace Distant														iP	19 15 26.5					
22	iP	05 04 38 Trace Distant														iP	05 04 43					
22	iP	05 48 59 Trace Distant P: Near Apia														iP	05 49 03					
22	e	08 06 54 Trace Distant														i	08 06 55					
22	e	09 34 06 Trace Distant BCIS: 28°S, 179°W; 0 = 09:21.3														e	09 34 00					
22																e	12 31 22 Trace Distant					
22																e(P)	19 20 03 Trace Distant					
22																eP	20 12 10 Trace Distant					
22	iP i	19 31 03 13 Trace Distant BCIS: 23°S, 171°E: 0 = 19:17.9														iP i (e)	19 31 07 16 37 32					

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1947 16.

Time used is GCT

M-1073
International Seismological Centre

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
23	eP	09 48 21		+	+	-							iP	09 48 19				
	iP	26											i	49 04				
	i	49 03											iS	50 03				
	iS	50 06																
	iL	56																
	II Regional																	
	CGS: 44°47'N, 112°02'W; 0 = 09:46:05.5																	
23	eP	10 52 13											i(P)	10 52 21.5				
	e(S)	43											iS	38				
	Trace Regional																	
23													eP	16 53 55				
													Trace Distant					
23	iP	18 01 08											iP	18 01 11				
	ipP	27											ipP	30				
	Trace Distant																	
23													i	21 03 27				
													Trace Distant					
24													iP	08 19 11				
													Trace Distant					
24	eP	14 27 16											eP	14 27 19				
	iP	19											iP	22				
	ipP	32.5											ipP	37				
	i	28 42.5																
	Trace Distant																	
24	iP	17 31 10.7		+	-	+							iP	17 31 04.4		+	-	+
	i	35.3											iSE	25.7				
	iSE	27.2																
	iSE	28.3																
	II Regional																	
	P: Felt at Reno; Magnitude 4.5																	

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1947 17.

Time used is GCT

BOULDER CITY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	25	eP	08	27	05				
			Trace Distant						
	25	eP	08	37	53				
			Trace Distant						
	25	e	18	25	14				
			Trace Distant						
			CGS: 11°S, 75°W; 0 = 18:15.1						
	25	iP	23	34	20				
			Trace Distant						
			P: Near Apia						
	26								
	26	eP	01	19	35				
			Trace Distant						
	28								
	28	e	08	58	01				
			Trace Distant						
	28	eP	10	57	13				
		e(S)			34				
			Trace Regional						
	28								
	28	eL	21	58	28				
			Trace Regional						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	08	27	05.5				
iP	08	37	56				
e	18	25	11				
iP	23	34	23				
e	00	19	52				
	Trace Distant						
iP	01	19	33				
e	03	00	47				
	Trace Distant						
e	08	58	04				
iP	10	57	18				
iL			42				
e	12	40	49				
	Trace Distant						
eP	21	56	05				
iL		58	46				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 19 47 18.

Time used is GCT

BOULDER CITY

Day Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
28	iP	23	49	09				
	ipP			20				
	Trace Distant							
29	e	01	03	59				
	i		04	40				
	Trace Distant							
29	iP	13	13	50				
	i		14	08				
	Trace Distant							
29								
30	iP	21	29	22				
	ipP		31	38				
	Trace Distant							

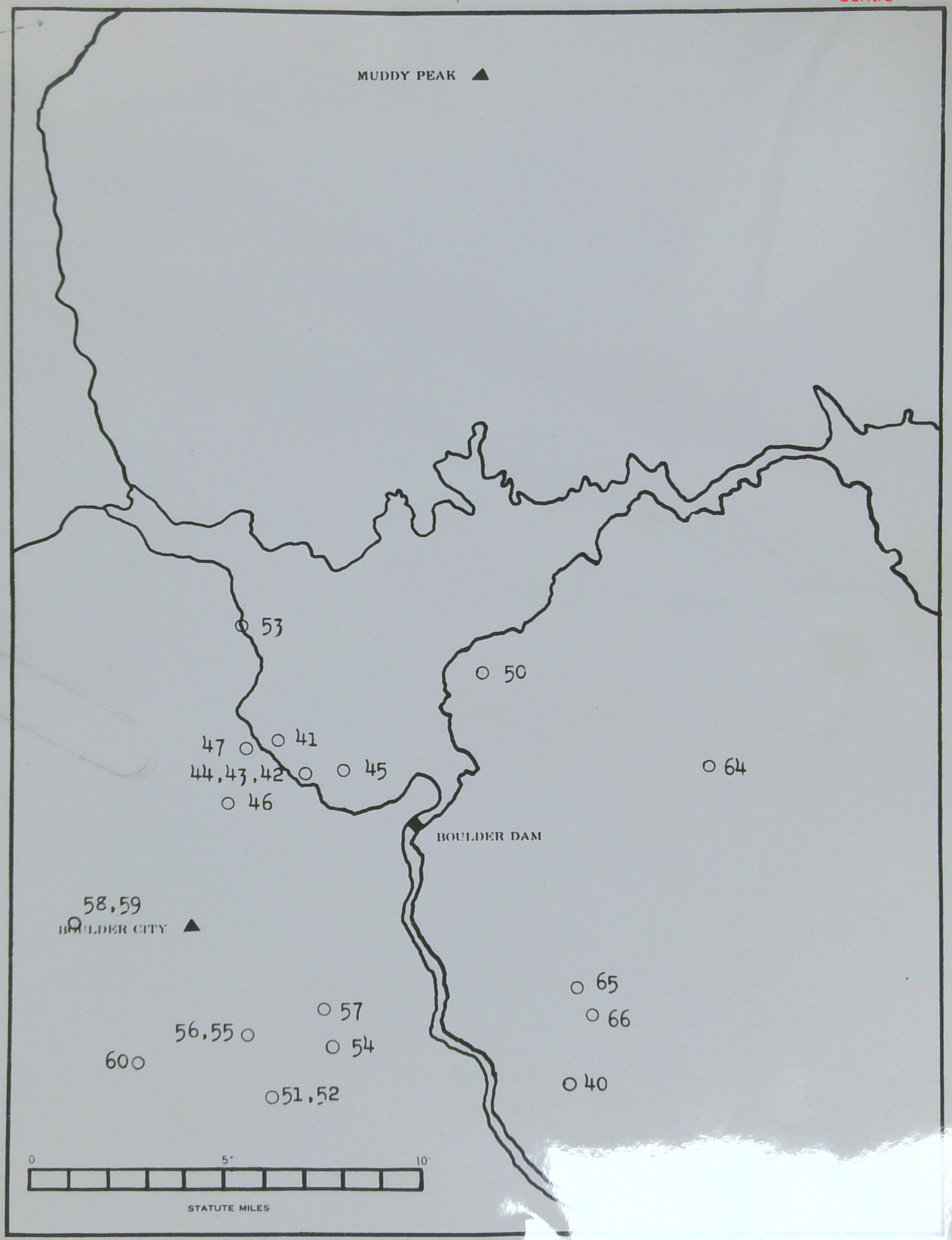
OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

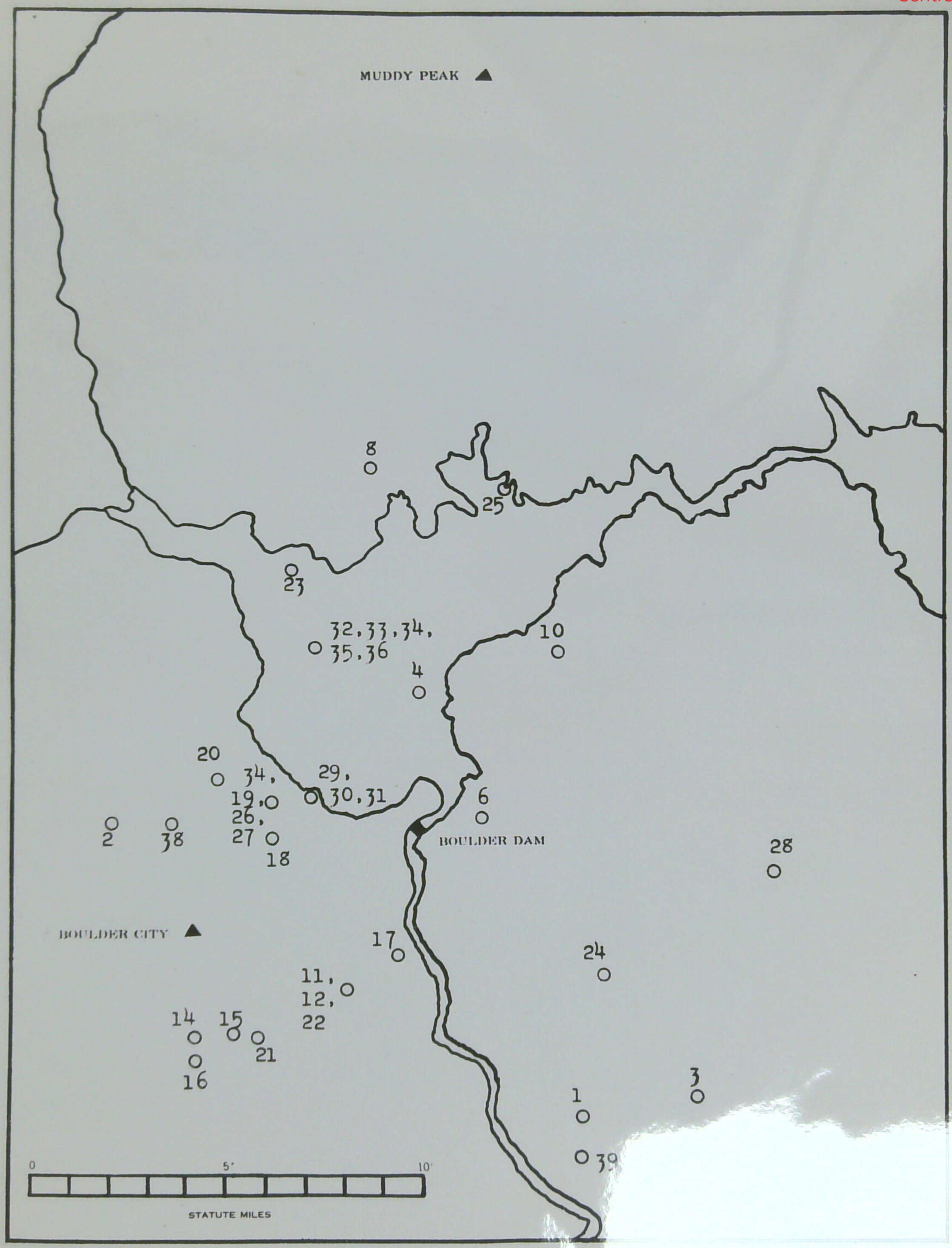
Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	23	49	10				
ipP			21				
e	01	03	58				
i		04	40				
iP	13	13	54				
i		14	13				
i(P)	14	24	02				
Trace Distant							
P: Near Apia							
iP	21	29	23				
ipP		30	41				

International Seismological Centre



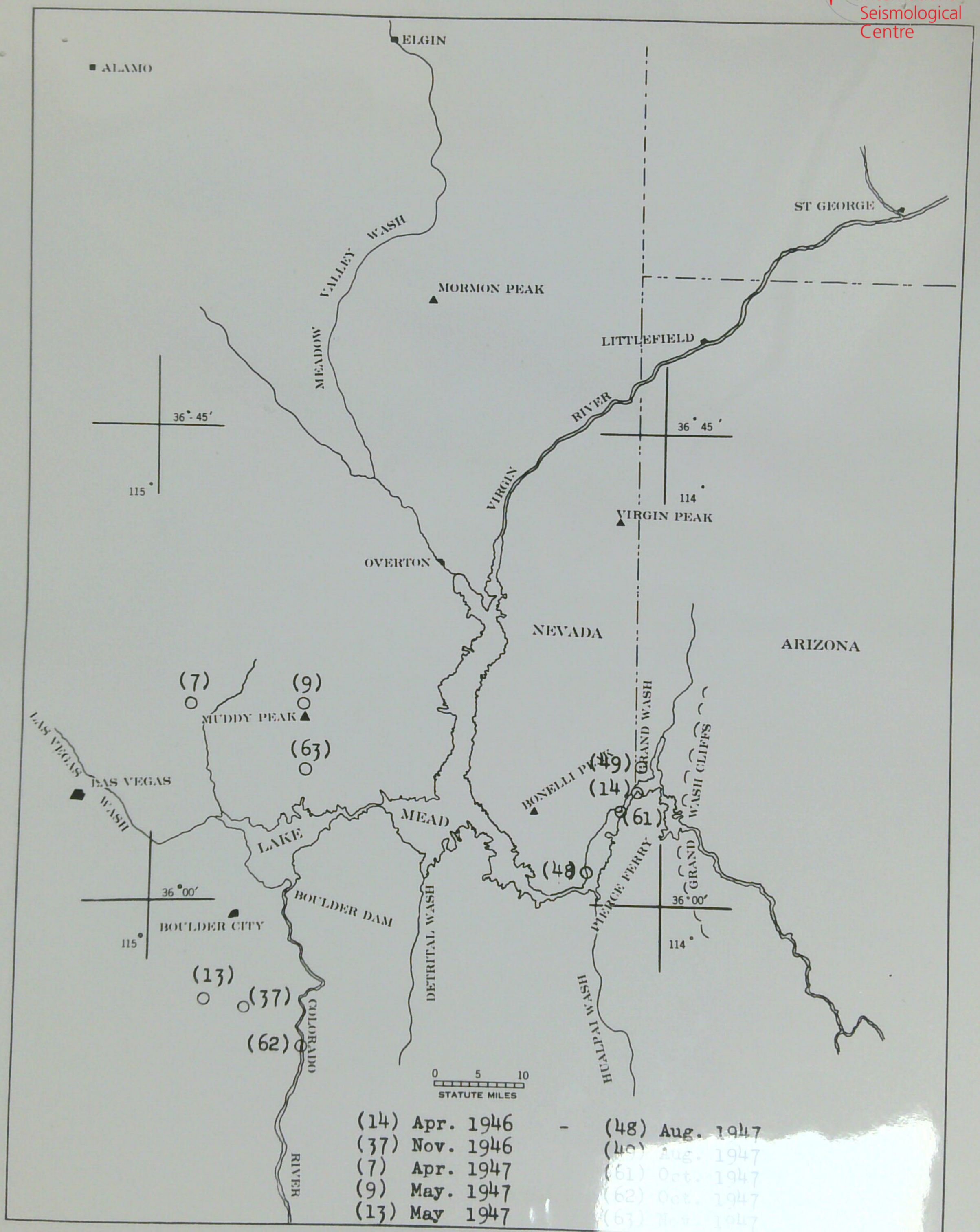
TENTATIVE EPICENTERS IN THE
AUGUST - DECEMBE

International Seismological Centre



TENTATIVE EPICENTERS - JANUARY

International Seismological Centre



(14) Apr. 1946 - (48) Aug. 1947
(37) Nov. 1946 (49) Aug. 1947
(7) Apr. 1947 (61) Oct. 1947
(9) May. 1947 (62) Oct. 1947
(13) May 1947 (63) Nov. 1947

SUPPLEMENTAL EPICENTERS - 1946 and 1947

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . December, 1947

The stations at Boulder City and Pierce Ferry operated on routine schedule throughout December.

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. Regional shocks are from 70 to 700 miles from the station, and distant shocks are classified as anything greater than 700 miles. Regional shocks of unknown distance may often be classified as distant.

Epicenters were located in the Lake Mead region as follows:

No.	Date Dec.	G. C. T.	Location of Epicenters
65	22	11:29:15.6	6.5 mi SE Hoover Dam
66	30	16:52:22.4	7 mi E of Hoover Dam

No earthquakes were reported felt in the Lake Mead region during December.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 47 1.

Time used is GCT

M-1073

No	Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
1		eP	00 51 11			Station out of Operation				1P	00 51 14.5		
			Trace Distant										
1		e	02 45 20							e	02 45 20		
			Trace Distant										
1										e	04 31 35		
											Trace Distant		
1										e	05 36 47		
											Trace Distant		
1		e	07 00 00							1P	06 59 51		
										i(S)	07 00 40		
			Trace Regional							iL	01 10		
1		eP	07 07 05							1P	07 07 07		
			P: Tonga Region; h = 550 km							e(pP)	09 15		
			Trace Distant										
1										e	21 49 10		
											Trace Distant		
1		e(P)	23 28 33							i(P)	23 28 37		
			Trace Distant										
2										e	07 09 38		
											Trace Distant		
2		iP	15 58 30							iP	15 58 23		
		ipP	55							ipP	58		
			Trace Distant										
2		iP	21 48 27							iP	21 48 35		
		i	49 07							i	49 12		
			Trace Distant										

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 47 2.

Time used is GCT

M-1073-4

International Seismological Centre

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
2													e	22 57 44				
														Trace Distant				
2	i(P)	23 38 42											i(P)	23 38 40				
		Trace Distant																
3													e	00 06 57				
														Trace Distant				
3	iP	22 27 51.0		+	+	?												
	iS	51.6																
		I Local																
4	e	14 34 58											e	14 34 50				
		Trace Distant																
5	iP	09 19 27.2		?	+	-												
	iSH	28.6																
		Trace Local																
5	iP	16 08 00											eP	16 08 04				
	iS	26											i(S)	34				
		Trace Regional											iL	47				
5													eP	16 08 05				
													e(S)	33				
														Trace Regional				
5	e	17 12 04											e	17 12 06				
		Trace Distant																
5	iP	23 34 17												Obscured				
	e	32																
		Trace Distant																
		Wellington: 35½°S, 178°W, O = 23:21.1																

M-1073 International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 47 3.

Time used is GCT

BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	e	23	42	44													e	23	42	48				
	Trace Distant																							
7	eP	03	48	24													iP	03	48	26				
	Trace Distant																							
7	eP	04	44	17													eP	04	44	17				
	e(S)			43													eL		45	06				
	Trace Regional																							
7																	e	06	31	49				
																	Trace Distant							
7	e	11	54	45													e	11	54	48				
	Trace Distant																							
7																	e	13	27	41				
																	Trace Distant							
7	e	15	15	10													e	15	15	12				
	e		18	46													i		18	42				
	Trace Distant																							
7	e	16	34	34													e	16	34	32				
	Trace Distant																							
7																	iP	17	29	30				
																	Trace Distant							
7	eP	23	00	15													eP	23	00	16				
	e			40													L			59				
	Trace Regional																							
8	eP	00	34	10													eP	00	34	06				
	Trace Distant																							
8	e	16	58	15													e	16	58	17				
	Trace Distant																							

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 47 4.

Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
8	e	17 32 00							e	17 31 58		
	Trace Distant											
9									e	04 40 56		
									Trace Distant			
9	e	09 55 34							e	09 55 38		
	Trace Distant											
9									e	23 54 00		
									e	58 35		
									Trace Distant			
10	eP	02 41 54							e	02 42 00		
	e(S)	42 44										
	Trace Distant											
10	e	04 53 42							e	04 53 36		
	e	54 38										
	Trace Distant											
10									iP	05 27 00.8		
									iS	01.8		
									Trace Local - 5 mi			
10	e	09 47 28										
	Trace Distant											
10									(iP)	23 30 13		
									iP	49		
									Trace Distant			
12	iP	01 27 27.6		+ + -								
	iS	29.0										
	Trace Local - 5 mi NE											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 71 7.

Time used is GCT

M-107-4

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E	N	Z
12	iP	01 45 38.6		+?	+	+												
	iS	39.5																
		Trace Local - 5 mi SW																
12	e	02 03 34											e	02 03 44				
		Trace Distant											e	31 12				
12													1(P)	18 43 29				
														Trace Distant				
12	iP	22 52 30.5																
	iS	34.3																
		Trace Local - 3 mi																
13	eP	01 38 26											eP	01 38 31				
		Trace Distant																
13	iP	03 32 14											iP	03 32 12				
		Trace Distant											e	34 54				
13	eP	09 35 44											iP	09 35 48				
		Trace Distant																
13	e	12 15 26											iP	12 15 08				
		Trace Distant											i	20				
13	iP	12 19 28											iP	12 19 32				
	iS	50											iS	52				
		I Regional																
13	e(P)	12 53 42											e(P)	12 53 41				
		Trace Regional																
13	eP	21 03 41											iP	21 03 38				
		Trace Distant																

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 1947

Time used is GCT

International Seismological Centre

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Remarks
13	BOULDER CITY	iP	23	12	09					
		ipP			24					
			Trace Distant							
			P: Japan?							
14	BOULDER CITY	eP	02	28	14					
		ipP			44					
			Trace Distant							
			CGS: 26°S, 63°W; O = 02:16.2; h = 100 km.							
14	BOULDER CITY	e	13	26	05					
			Trace Distant							
15	BOULDER CITY	eP	01	02	08					
			Trace Distant							
15	BOULDER CITY	eP	03	19	57					
		i		20	28					
		i(S)			41					
			I Regional							
			P: Magnitude 5							
15	BOULDER CITY	iP	07	52	28.7		+	-	+	
		i(S)			35.4					
			Trace Local - 34.5 mi NW							
15 - 16	BOULDER CITY	6	Traces Local - 5 mi							
15	BOULDER CITY	eP	19	34	20					
		ePP		38	28					
			Trace Distant							
			CGS: 59°S, 161°W; O = 19:20.5; h = approx. 60 km.							
16	BOULDER CITY	eP	01	45	31					
			Trace Distant							
	OVERTON									
	PIERCE FERRY	iP	23	12	10					
		ipP			26					
		e		15	14					
	PIERCE FERRY	iP	02	28	11					
		ipP			41.5					
	PIERCE FERRY	i(P)	13	25	23					
		e		26	52					
	PIERCE FERRY	iP	01	02	10					
	PIERCE FERRY	iP	03	19	58					
		i		20	28					
		i(S)			38					
	PIERCE FERRY	iP	07	52	39.5		-	+	-	
		i(S)			54					
			78 mi NW							
	PIERCE FERRY	eP	19	34	21					
		ePP		38	32					
		ePKKP		50	27					
	PIERCE FERRY	iP	01	45	34					

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 1947

Time used is GCT

M-1073-4

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	e	09	23	54													e	09	22	18				
	Trace Distant																e		24	08				
16	e	11	06	47													e(P)	11	05	48				
	Trace Regional																							
16	iP	11	28	05													eP	11	27	08				
	i			19													iP		28	25				
	iS		29	05													i(S)		29	13				
	II Regional																							
	CGS: 30°N, 114°W; O = 11:26.7; Magnitude 5.2 (Pas.)																							
16	iP	17	09	11.8		?	?	+																
	iS			13.2																				
	Trace Local - 5 mi																							
16	iP	18	25	11																				
	e		29	31															Obscured					
	Trace Distant																							
16	e	19	40	34																				
	Trace Distant																		Obscured					
16	iP	20	52	53													iP	20	52	53				
	Trace Distant																							
16	(e)	21	00	03													e(P)	21	00	24				
	e		01	44																				
	Trace Distant																							
16																	eP	23	09	53				
																	iL			35				
																	Trace Regional							
17	e	04	24	48													e	04	24	50				
	Trace Distant																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 47 8.

Time used is GCT

M-1073-4

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
17									e	08 03 05		
										Trace Distant		
17	eP	11 02 13							iP	11 02 16		
		Trace Distant							e	03 31		
		P: Near Apia										
17	e	11 18 41							e	11 18 43		
		Trace Distant										
17	e	12 43 57							e(P)	12 40 53		
		Trace Regional							e	43 42		
17												
									e	14 43 46		
										Trace Distant		
17	e	20 29 10							e	20 29 11		
		Trace Distant										
18	eP	03 18 59							iP	03 18 57		
		Trace Distant										
18	e	17 19 49							e	17 19 53		
		Trace Distant										
18												
									e	18 09 56		
										Trace Distant		
19	eP	01 27 31							iP	01 27 34		
		Trace Distant										
19	iP	02 37 22							eP	02 37 (30)		
	iS	50							iP	(33)		
		Trace Regional							iS	38 (10)		
19	iP	03 55 31.1		- + +								
	iS	32.1										
		Trace Local - 5 mi SE										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF December 19 47 9.

Time used is GCT

M-1073-a

Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
19									e	15 31 18		
										Trace Distant		
19	e	16 54 54							(e)	16 50 36		
									i	53 59		
		Trace Distant							i	55 46		
		P: Formosa?							e	17 06 37		
19	iP	18 24 20.5							iP	18 24 28		
	i(S)	43.5							i(S)	50		
		I Regional										
20									e(P)	00 16 31		
										Trace Distant		
20									e(P)	06 16 42		
										Trace Distant		
20									iP	16 00 13		
										Trace Distant		
20									eP	18 01 14		
									i(S)	31		
										Trace Regional		
21	eP	00 19 04							eP	00 19 04		
		Trace Distant							i	12		
		P: Near Apia										
21									i(P)	03 14 29		
										Trace Distant		
21	e	10 52 41							iP	10 52 28		
		Trace Distant										
21	iP	11 47 39							iP	11 47 43		
	i	53							i	58		
		Trace Distant										

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No.	Date	BOULDER CITY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	OVERTON Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	PIERCE FERRY Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	21	iP	16	57	24													iP	16	57	29				
		ipP			41													ipP			45				
		P: IV at Ajia Trace Distant																							
	21	eP	20	42	05													eP	20	43	12				
		i(S)			31													i(S)			48				
		I Regional																							
	22	eP	00	02	30													iP	00	02	27				
		Trace Distant																							
	22																	eP	02	40	13				
																		Trace Distant							
	22	e(P)	03	07	41													iP	03	07	38				
		Trace Distant																e		10	40				
	22	eP	03	16	46													eP	03	16	53				
		Trace Distant																							
	22	eP	03	18	47													iP	03	18	47				
		Trace Distant																							
(65)	22	iP	11	29	15.6		-	+	+									iP	11	29	22.7				
		iS			17.9													iS			30.2				
		I Local - 9.8 mi SE								EPICENTER No. 65 - 6.5 mi SE Hoover Dam								38.3 mi SW							
	22	iP	13	18	59													iP	13	19	02				
		Trace Distant																							
	22																	iP	18	22	33				
																		Trace Distant							
	22	eP	21	58	54													iP	21	58	57				
		Trace Distant																							

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	iP	02	02	13				
	i			35				
	i(PP)			52				
	iPcP		05	13				
	eScP		08	53				
	e(S)		12	22				
	I Distant							
23	eP	09	58	59				
	Trace Distant							
23								
23	iP	22	51	09.3		-	+	+
	iS			10.7				
	I Local - 5 mi SE							
24	eP	04	22	09				
	Trace Regional							
24	iP'	05	41	20				
	Trace Distant							
	P: 55°S, 115°E; O = 05:22.0							
24	eP	07	02	17				
	Trace Regional							
24	eP	09	24	04				
	Trace Regional							
24	iP	16	42	10				
	e(S)		49	55				
	Trace Distant							
	CGS: 16°N, 98°W; O = 16:36.7; Mexico							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	02	02	09				
i			34				
i(PP)			47				
iPcP		05	13				
eScP		08	51				
eS		11	59				
eP	09	59	00				
e(P)	11	13	58				
Trace Regional							
e(L)	22	51	28				
eP	04	22	17				
e(S)			52				
iP'	05	41	20				
iPP		44	50				
eP	07	02	25				
L		03	18				
eP	09	24	11				
L			48				
iP	16	42	07				
e(S)		49	44				

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	BOULDER CITY								OVERTON								PIERCE FERRY							
No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24		Record changed during 17th h															e(P)	17	12	41				
																		Trace Distant						
24																	iP	17	26	26				
																	e(S)		33	52				
																		Trace Distant						
																		P: Mexico						
24																	e(P)	17	38	43				
																		Trace Distant						
																		P: Mexico						
24																	iP	17	41	52				
																	e		46	27				
																	e		49	24				
																		Trace Distant						
																		CGS: 16°N, 98°W; 0 + 17:36.5						
																		Mexico						
25																	e	02	11	45				
																		Trace Distant						
25																	iP	04	34	09				
																		Trace Distant						
25	iP	06	05	42													iP	06	05	47				
	i(pP)			54													i(pP)			59				
		Trace Distant																						
25	iP	14	59	55													iP	14	59	59				
		Trace Distant															e	15	02	07				
26	iP	02	14	06													iP	02	14	09				
		Trace Distant																						

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No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26	BOULDER CITY	eP	10	30	01				
		e(S)			31				
		Trace Regional							
26		iP	16	57	03				
		i			09				
		e(PP)	17	00	38				
		Trace Distant							
		CGS: 20°S, 168°E; O = 16:43.8							
26		eP	19	16	01				
		Trace Distant							
26									
26		iP	20	05	27				
		e		08	26				
		i		12	28				
		Trace Distant							
26									
26									
26		iP	23	29	06				
		Trace Distant							
26									
27									

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	OVERTON								

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	PIERCE FERRY	eP	10	30	08				
		e(S)			45				
		eP	16	57	06				
		iP			08				
		e(PP)	17	00	46				
		iP	19	16	07				
		e	20	00	29				
		Trace Distant							
		iP	20	05	31				
		i			46				
		i		06	19				
		e		08	47				
		i		12	33				
		e	20	31	57				
		e		34	06				
		Trace Distant							
		e	20	59	52				
		Trace Distant							
		iP	23	29	11.5				
		eP	23	54	50				
		e		56	13				
		Trace Distant							
		e	01	06	51				
		Trace Distant							

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BOULDER CITY

OVERTON

PIERCE FERRY

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	27	eP	03	24	16				
		epP			43				
		Trace Distant							
	27	e(P)	05	37	40				
		Trace Distant							
	27	eP	05	54	34				
		Trace Distant							
	27	iP	07	31	23.6		-	+	+
		iS			26.0				
		Trace Local - 10 mi SE							
	27	eP	09	17	04				
		e(S)			43				
		Trace Regional							
	27	iP	16	51	06				
		ipP			43.5				
		Trace Distant							
	27	eP	17	47	28				
		Trace Distant							
	27	e	18	33	37				
		Trace Distant							
	28	e	03	12	50				
		Trace Distant							
	28								
	28	e	15	56	11				
		Trace Distant							

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	27	iP	03	24	08				
		ipP			43				
		e(P)	05	37	53				
		eP	05	54	38.5				
		e	07	31	34				
		eP	09	17	08				
		i			16				
		i(S)			41				
		iP	16	51	17				
		ipP			50				
		iP	17	47	34				
		e	18	33	41				
		e	03	12	24				
		eP	13	41	42				
		i(pP)			54				
		Trace Distant							
		(e)	15	54	36				
		i(P)		56	16				

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Time used is GCT

No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
28									e(P)	19 06 09		
										Trace Distant		
29	eP	14 42 53							1P	14 42 57		
		Trace Distant							1	43 14		
30	eP	02 02 37							1P	02 02 34		
	iPcP	04 51							iPcP	04 49		
		Trace Distant										
		CGS: 9.5°S, 84.5°W; O = 01:55.3										
30									eP	07 09 57		
										Trace Distant		
		16										
30	iP	16 52 22.4		-50+38 +					1P	16 52 29.4		
(66)	iS	24.8							1S	36.4		
		I Local - 10.5 mi ESE				Epicenter No. 66 - 7 mi E of Hoover Dam				38 mi SW		
30	iP	16 56 59.9		-20+10 +					e(P)	16 57 15		
	iS	57 02.2										
		I Local - 10 mi SE										
30	iP	16 57 44							1P	16 57 46		
	i	55							i	58 00		
	e	58 24										
		Trace Distant										
30		Station out							1P	17 30 40		
		1700 to 1930 on the 31st								Trace Distant		
30									(1P)	18 33 45		
										Trace Distant		

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No. Date	BOULDER CITY Phase	Time h m s	Period T	Trace Amplitude E N Z	OVERTON Phase	Time h m s	Period T	Trace Amplitude E N Z	PIERCE FERRY Phase	Time h m s	Period T	Trace Amplitude E N Z
30									iP	19 20 00		
									i	09		
									iS	42		
									III Regional			
30									eP	19 29 44		
									iS	30 27		
									I Regional			
31									eP	05 30 42		
									Trace Distant			
31									e(P)	09 22 17		
									Trace Distant			
31									iP	15 18 20		
									iPcP	41		
									iPPP	20 38		
									eS	28 03		
									I Distant			
									CGS: 15°S, 176°W;			
									O = 15:06.5			
									P: Magnitude 6-3/4			
31	iP 20 00 18.3			+10 +60 +					e	20 00 47		
	iS	19.4										
	I Local - 5 mi SW											
31									eP	22 33 24		
									e(S)	34 09		
									Trace Regional			