Lake Mead 1946
Complete
International Seismological Centre
1946
No Max

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . .January 1946

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout January 1946.

In the following report symbol I represents shocks with small trace amplitude on record, II represents a fairly well recorded shock, III large trace amplitudes and a barely recorded shock is marked "Trace". Local shocks are less than 70 miles, Regional shocks from 70 to 700 miles. Regional shocks of unknown distance may be classed as distant.

Local epicenters were located as follows:

No.	Date Jan.	G.C.T.	Location of Epicenter
1	8	01:00:11.45	(2) miles NW Boulder City Focal depth 5.5 miles
2	8	08:25:31.6	6.5 miles ESE of Boulder Dam on W slope of Black Mountains.
3	9	04:51:20.4	(7) miles E of Boulder Dam Black Mountains
4	13	05:11:30.6	(7) miles E by S of Boulder Dam (1.5) miles WSW of #3
5	20	00:41:28.6	Spring Mountains (27) miles W of Las Vegas. Depth of focus ca (10) miles

The following shocks were reported felt in Lake Mead regions. (Roman numerals are intensity grades as estimated by Modified Mercalli scale of 1931).

Ep.No.	Date	G.C.T.	Intensity Description
1	8	01:00:11.45	Felt by a few, rattled frame work.
	8	13:13:07.5	Felt by a few, earth noise.
	8	13:32:07.5	Felt by a few, earth noise.

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 1.

Time used is

NO. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
1	BOULDER CITY	iP	23 57 32.5		-?		-
		eS?	58 32.5				
		iS	36				
		I regional					
	OVERTON	iP	23 57 42				
		Trace regional					
	PIERCE FERRY	iP	23 57 39				-
		eS	58 51				
		I regional					
2	BOULDER CITY	eP	15 25 22.5				
		e	29 15				
		I distant					
	PIERCE FERRY	eP	15 25 29				
		eS	29 29				
		I distant					
2	BOULDER CITY	i	22 10.7		-	-	-
		Trace local - 20 mi. SE?					
	PIERCE FERRY	i	22 10 48				
		Trace					
3	BOULDER CITY	iP	04 14 20.5				-
		I distant					
	OVERTON	eN	04 14 20				
		I distant					
	PIERCE FERRY	iP	04 14 23				-
		I distant					
3	BOULDER CITY	iP	23 56 05.1		-150	+95	+
		iS	05.9				
		iSN	06.0			400	
		II local - 4.5 mi. SE					
	PIERCE FERRY	iP	23 56 23				
		i	26				
		Trace local					
3	BOULDER CITY	iP	23 57 55.9		-12	+9	+28
		i	56.0		-200	+125	
		iS	56.7				
		iSN	56.8				
		II local - 4.5 mi. NE					
	PIERCE FERRY	iP	23 58 06.5				
		iS	16.5				
		Trace local					
4	BOULDER CITY	iP	19 51 01				
		i	52 22				
		i	53 30				
		I distant					
	PIERCE FERRY	iP	19 50 56.5				
		I distant					
5	BOULDER CITY	iP	01 21 02.4		-	+	+
		iP	45.5				-
		eP?	30 38				
		eS	31 17				
		II distant					
	OVERTON	i	01 21 04				
		e	21 47				
	PIERCE FERRY	iP	01 20 58.5				
		i	21 41.5				
		eS	31 16				
		I distant					

CGS 15.5° N, 91.0° W, (Guatemala) 0 - 1:15.0 Δ = 2020 miles

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF January 194[illegible]

Time used is

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
5	iP	15 19 03.5				+	iP	15 19 03					iP	15 19 06				+
		I distant						I distant						I distant				
5	eP	16 20 50											iP	16 20 52.5				
		I distant												I distant				
5	iP	20 10 18		+		+							iP	20 10 21				+
	i	26											i	13 59				
	iE	50											eS	20 54				
	e	20 13												II distant				
	eS	43																
	e	35 58																
	e	40.0																
		II distant																
	CGS	16° S, 167° E, (New Hebrides Islands Region) O = 19:57.3 Δ = 6210 miles																
7	e	06 32 46.5											e	06 32 49				
	e	33 58												Trace regional				
		Trace regional																
7	i	10 55.3		Trace local - 127 mi.														
													e	15 53 18				
														Trace distant				
7	iP	21 47 43.3				+20							i	21 47 50				
	eS?	44.3				+20							iS	57				
	iS	45.3				150								I local				
		II local - 5 or 10 mi.																
7	i	22 22.0											i	22 23 09				
		Trace local - 5 mi.												Small local trace				
7	i	22 23.1											i	22 23 49.5				
		Trace local - 5 mi.												Small trace				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 3.

Time used is

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**							
1	8	i	01	00	09.8					iP	01	00	22.4				+	iP	01	00	23.4				
		iP			11.45		-140	+120	-375	e			29.4					i			25.5				
		i			12.25				1200+	is			31.1					is			32.0				
		is			12.6						NE or N							isN			32.6				
			III local - 6 mi. NW								44.2 mi.							i			33.1				
			Felt by many in Boulder City															is			33.7				
																		i			37.3				
			Epicenter 2 mi. NW Boulder City. Focal depth 5.5 mi.																49 mi.						
	8	i	01	28.3																					
			Trace local - 5 mi.																						
	8	i	05	55.8																					
			Trace local - 5 mi.																						
	8	i	06	03.0																					
			Trace local - 3 mi.																						
	8	i	06	56.6														i	06	56	39				
			Trace local - 15? mi.																Trace local						
	8	i	07	03.0																					
			Trace local - 4 mi.																						
	8	i	07	05.0														i	07	05	14				
			Trace local - 10? mi.																Trace local						
	8	iP	08	25	11.3		-		+10									i	08	25	19				
		e			13.2														Trace local						
		eS			13.4																				
			I local - 10 mi. E																						
2	8	iP	08	25	31.6		-25	+5	+40	eS	08	25	47.5					iP	08	25	25.5				
		iS			33.4						39.5 mi.							iP			38.6				
		iS			33.6				200									eSZ			45.3				
			II local - 11.3 mi. E															iS			46.0				
																					36.3 mi.				
			Epicenter 6½ mi. ESE of Boulder Dam on W slope of Black Mts. Probably shallow focus.																						

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF January 1946 4.

Time used is

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
8	i	08 41.1																
		Trace local - 5 mi.																
8	iP	09 53 24.6		+15	-16	+70							i	09 53 45				
	iZ	25.4												Trace local				
	iS	25.6		150		170												
		II local - 4 mi. Ns																
8	iP	10 29 15.2		-		+							i	10 29 23				
	eS	17.3												Trace local				
		I local - 10 mi. "																
8	iP	13 13 07.5		+		-												
	iS	08.3																
		I local - 4 mi. E (Felt by few in Boulder City.)																
8	iP	13 32 07.7		+12		-												
	iS	08.5																
		I local - 4 mi. E (Felt by few in Boulder City.)																
8	iP	18 55 08.7		-?	-	-							iP	18 55 15				
	iP	17.9											eS	56 24.5				
	iS?	53												III regional				
	iS	58.5																
		III regional - Felt in Southern California - 190? mi. SSW																
3 9	e	04 51 16.5			?		e	04 51 28.2					iP	04 51 26.3				-
	iP	20.4		-8	0	+	e	32.9					i	29.9				
	iZ	21.4				150	eS?	34.3					iSZ	32.8+				
	iZ	22.5						37 mi.					iS	33.3				
	iN	22.8												35.3 mi.				
	iS	23.1																
	iSNE	23.5																
		II local - 4 mi. E																
		Epicenter in Black Mtns. 7 mi. E of Boulder City.																

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 194 5.

Time used is

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
10	iP	23 53 14.5		-					iP	23 53 17.5		
	i	34.5								I distant		
	i	54 24										
		Trace distant										
11	i	00 54.1										
		Trace local - 5? mi.										
11	iP	01 44 45.2		+30 -37 +245	iPN	01 44 45		-	iP	01 44 47		+6 +25 +136
	i	45 12.6										
	ipP	46 09										
	eZ	48										
	iPP	47 55										
	iS	54 29.5			iSN	54 04			iS	54 09		
	iPKKP	02 03 19										
	i	09 59							i	02 09 57		
	iP'P'	11 18							epP'P'	13 13		
	epP'P'	13 18							e	51		
	e	39								II distant		
	eP'P'P'	31 17										
	epP'P'P'	33 13										
		II distant										
		ca 79° NW Honshu?										
11	i	03 14.9		+								
		I local - 5 mi.										
11	iP	18 47 11		-10 + +35	iPN	18 47 12			iP	18 47 06.5		+
	e	56 03				I distant				I distant		
		I distant										

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 6.

Time used is

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**				
12	iP	20 32 02.8		+	-10	+30	iPK	20 32 04					iP	20 32 04.5				
	iN	33 17						II distant						II distant				
	eN	37 19																
	i	38 32																
	e	40 00																
	e	41 37																
	e	43 24																
	e	45 04																
	e	21 06 39																
		II distant																
	OBS 59° N, 147.5° W, (Felt at Anchorage and Cordova, Alaska) O = 20:25.7 Δ = 2110 mi.																	
4 13	iP	05 11 30.6		-8	-3	+	eS	05 11 45.6					iP	05 11 36.9				+
	is?	32.5					eS	46.2					i	38.6				
	iS	33.2						39 mi.					i	39.7				
	II local - 13.5 mi.? E												i	42.1				
													iE	43.3				
	Epicenter about 7 mi. E by S of Boulder City. 1½ mi. WSW of #3												iSZ	43.7				
													iS	44.1				
													iEN	48.0				
														36 mi.				
13	eP	16 32 07.9											iP	16 32 15				
	iP	08.5				+							iP	20.5				
	iP	15		+25	-10	+							iS	33 02.5				
	m	0.3-0.7				320								II regional				
	iS	58.5		480														
	II Regional - 280? mi. WNW																	
13	eP	17 13 52.4					eFN	17 14 05					iP	17 13 54.5				
	eS	31.5					eSN	14 51					eS	14 54.5				
	eS	34						I regional						I regional				
	I regional																	
14	i	14 53.1		Trace local - 3 mi.														

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946

Time used is

	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	16 05 22.4		-20	+8	+55															
	iS	24.4				380															
		II local - 10 mi.																			
															iP	03 31 58.5					
																I local					
15	i	04 24.1													iP	04 24 17.5					
		Trace local - 12 mi.														Trace local					
15	iP	05 49 02.5						ePE	05 49 02						iP	05 49 06					
		I distant							I distant							I distant					
15	i	08 55.0													iP	06 59 05.5					
		Trace local - 107 mi.														Trace distant					
15	i	12 55.0																			
		Trace local - 2½ mi.																			
15	eP	22 34 33						ePN	22 34 43						iP	22 34 41					
		I distant							I Distant							I distant					
16	iP	07 38 58					-	iPN	07 38 59						iP	07 38 55.5					
		Trace distant							Trace distant							Trace distant					
16	iP	11 07 55.6						iPN	11 08 02						iP	11 07 50.5					
	iP	56.4							I regional						eS	08 50.5					
	eS	08 38														I regional					
		I regional																			
16	i	22 57.0													i	22 57 11.5					
		Trace local - 6 mi.														Trace local					
17	i	02 26.6													i	02 26 45.5					
		I local - 10 mi.														Trace local					

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 8.

Time used is

BOULDER CITY

Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
17	iP	02 37 43				+
		I distant				
17	i	04 29.1				
		Trace local - 10 mi.				
17	i	05 18.0				
		Trace local - 6 mi.				
17	iP	09 13 16.3		-5	-	+20
	iS	18.0				
		I local - 8½ mi. NW				
17	eP	09 53 15				
	iP	51				
	eSAS	10 03 40				
	eS	04 26				
		I distant 93°				
17	eP	12 22 46				
	iP	49				
	eS	23 39				
		Trace regional				
18	iP	00 36 32.5				
	eS	37 19.5				
		I regional				
18	iP	07 42 53.5		-	-	+20
	iS	55.3				
		I local - 9 mi. NE				
18	iP	15 44 43.5				-
	i	45 55.5				
	i	47 39				
	eS	54 04				
	eSAS	39				
		I distant 75°				

OVERTON

Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
17	ePE	00 36 36				
	eS	37 20				
		I regional				
18	iPK	15 44 48				
		I distant				

PIERCE FERRY

Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
17	iP	02 37 46.5				
		I distant				
17	i	09 13 33.5				
		Trace local				
17	eP	09 53 19.5				
	eS	10 03 55.5				
		I distant				
17	e	12 22 46.5				
	iP	23 02				
	eS	23 59				
		I regional				
18	iP	00 36 33.5				
	eS	37 37				
		I regional				
18	iP	15 44 47				
	i	45 59				
	eS	54 13				
		I distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 9.

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
	19	i	05 49.1																
			I local - 9 mi.																
	20	i	00 12.1																
			Trace local - 8 mi.																
5	20	iP	00 41 28.6		+170	-95	+420	iP	00 41 34.5		+10	+?	+	iP	01 41 39.1		+12	0	+
		iS	37.4		500		500	iP	34.9					iP	39.8		+110	-50	
		iS	37.8					iP	36.8					iS	56.4				
		iS	40.4					iS	47.7					i	42 07.9				
		o	15.8						71.8 mi.						91.5 mi.				
			II local - 45 mi. NNW																
			Epicenter in Spring Mountains 27 mi. W of Las Vegas. Depth of focus ca 10 mi.																
	20	i	10 02.3																
			Trace local - 8 mi.																
	20	eP?	17 07 23					ePE	17 07 27					iP	17 07 06				
		iP	25.3				+	iE	08 03					i	22				
		eE	10 46						I distant						I distant				
			I distant																
	21	i	17 41.4											iP	17 41.5				
			Trace local - 67 mi.												Trace local				
	21	eP	18 20 16					ePE	18 20 27					i	18 18 18.5				
			Trace distant						Trace distant					eP	20 23.5				
															Trace distant				
	21	iP	19 59 13.5					ePE	19 59 16					iP	19 59 11				
			Trace distant						Trace distant						Trace distant				
	21	iP	22 06 40.4				+	iPE?	22 06 56					iP	22 06 47				
		iS	42.2											iS	55				
			I local - 9 mi.												I local				
	22	eP	03 19 14					ePE	03 19 24					eP	03 19 18				
			Trace distant						Trace distant						Trace distant				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 10.

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
23	iP	01 56 17				+
		Trace distant				
25	eP	02 06 39				
		Trace distant				
25	iP	04 37 43.5		+		+
	i	38 08				
	i	39 51				
	e	43 16				
		I distant				
25	i	10 07.8				
		Trace local - 8 mi.				
25	eP	17 44 13				
		I distant				
26	eP	02 42 32				
IP	iP	43				
	i	43 02				
		I distant				
26	iP	16 54 53.3		-	+	-
		I distant				
26	iP	18 27 02.5				+
		I distant				
26	iP	18 31 14.5		+	-	+15
	eS	15.4				
		I local - 4½ mi. NW				
27	iP	01 24 49.5				+
	i	25 05				
		I distant				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iPE	01 56 17				
	Trace distant				
ePE	02 06 40.5				
	Trace distant				
iPE	04 37 44				
	I distant				
iE	10 07.6				
	Trace local				
ePE	02 42 36				
i	43 06				
	I distant				
ePE	16 54 55.5				
	I distant				
iPE	18 27 05.5				
	I distant				
ePE	01 24 51				
	I distant				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	01 56 19.5				
	Trace distant				
eP	02 06 42				
	Trace distant				
iP	04 37 39				
i	51				
i	10 07.9				
	Trace local				
iP	17 44 11				
	I distant				
iP	02 42 35				
	I distant				
iP	16 54 56				-
	I distant				
iP	18 27 06				
	I distant				
iP	01 24 52				
	I distant				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF January 1946 11.

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
27	iP	03 49 01.3		+	+	-40												
	iS	02.1																
	I local - 4 mi. NE																	
27	iP	21 37 58.5											iP	21 37 55				
	Trace distant													Trace distant				
28	eP	12 52 41					ePg	12 52 49					iP	12 52 40				
	eS	56 11					e S	56 35					eSy	56 07				
	I distant						I distant						eSz	27.5				
													I distant					
28	iP	15 12 37.3				+		15 12 36.5					iP	15 12 40				
	I distant													I distant				
28	eP	23 33 51.5											iP	23 33 48				
	e	37 29												I distant				
	I distant																	
29	eP	06 33 01					ePg	06 33 10					e	06 32 17				
	i	36 20.5						I distant					eP	33 13				
	i	33												I distant				
	e	37.5																
	I distant																	
29	iP	19 01 48.5				+	eP	19 01 50					iP	19 01 51				
	i	02 06						I distant					i	02 08				
	I distant													I distant				
30	e	00 18 38																
	Trace distant																	
31	e	23 25 39											e	23 24 51				
	Trace distant												e	25 42				
														Trace distant				

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LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS. . . . . .b. . . . . .February 1946

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout February 1946.

In the following report symbol I represents shocks with small trace amplitude on record, II represents a fairly well recorded shocks, III large trace amplitudes and a barely recorded shock is marked "Trace". Local shocks are less than 70 miles. Regional shcoks from 70 to 700 miles. Regional shocks of unknown distance may be classed as distant.

Local Epicenters were located as follows:

No.	Date Feb.	G.C.T.	Location of Epicenters
6	3	08:49:16.1	5.5 miles east of Boulder Dam near west base of Black Mountains
7	11	22:25:20.6	8.5 miles ENE of Boulder Dam on east slope of Black Mountains, H - 8 mi.
8	16	04:12:37.3	Near Boulder City (0.5) miles ESE of station - 3.5 miles deep
9	16	04:42:59.1	Same as number eight

The following shocks were reported felt in Lake Mead Regions. (Roman numerals are intensity grades as estimated by Modified Mercalli scale or 1931).

Ep.No.	Date	G.C.T.	Intensity Description
	14	12:45:07.9	Earth noise only. Felt by one person
8	16	04:12:37.3	Rattling of window and doors
9	16	04:42:59.1	Rattling of windows, doors. Felt by many

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 1946 1.

Time used is

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	eP	00 54 13.5											eP	00 54 10.5				
		I distant												I distant				
1	e	02 45 01											e	02 45 06				
		Trace distant												Trace distant				
1	i	03 39.9	Trace local - 6 mi.															
1	eP	05 24 25				-?							iP	05 24 28.5				
	i	52												Trace distant				
		Trace distant ?																
1	iP	07 45 43.2			+	-							i	07 45 48				
	iS	46 09.8											iS	46 23				
	eZ	14												I regional				
		I regional - 140 mi.																
2	eP	06 14 33											eP	06 14 38.5				
	e	52											e	50.0				
		Trace regional or distant												Trace regional or distant				
								Time correction extrapolated										
6 3	iP	08 49 16.1					e	08 49 23.2					iP	08 49 22.9				
	i	18.0		-10	+2	+20	e	23.4					iSZ	29.6				
	iS	18.4			156	215	e	28.2					iSE	30.0				
		II local - 12 mi. E					eS	31.2										
							iS	31.6										
		Epicenter 5½ mi. E of Boulder Dam near W base of Black Mountains																
4	iP	03 53 00		-	-	+20							iP	03 53 03				
	ipP	34.8		-38	+45	-145							i	08				
	iPZ	54 33				-140							ipP	37				
	i	58 10											iS	59 38.5				
	iS?	59 31					iS	03 59 30?										
	i	04 00 26					i	04 00 04?					i	04 00 38				
	e	47					e	06 00?					e	02 42				
		II distant - NW						I distant						II distant				
								Time correction										
								assumed on above										

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 1946

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
4	iP iS	15 13 38.7 39.5 I local - 4 mi.		?	?	+												
5	iP?	16 06 04 I distant? - Seismic origin doubtful											iP i	16 05 25.5 06 15 I distant				
6	i	00 27.9 I local - 5 mi.																
6	eP	10 20 59 Trace distant											iP	10 19 39.5 I distant				
6							ePN	10 27 45? Trace distant - no time correction										
7	eP	15 05 20 Trace distant												15 05 10 Trace distant				
8							ePE eS	01 01 42? 49? I local - no time correction										
9	eP iS	05 23 48.5 24 35 I regional											eP iS	05 23 30.5 24 19.5 I regional				
9							iP iS	05 30 27.5 31 08? I regional - no time correction										
10	iP	00 23 24 Trace distant or regional					i	00 23 48? Trace regional - no time correction					iP	00 23 22 Trace distant or regional				

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 1946 3.

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
10	iP	06 32 59.9		+2 -4 +	iP	06 33 05.2			iP	06 33 10.2		
	ie	33 02.1			i	07.2			i	11.5		
	is	06.3			i	09			i	13.0		
	is	06.8			i	12			i	20.5		
		II local - 33 mi. NW			i	12.9			e	24.8		
					is	14.5				70 mi.		
		Probably about 10 mi.			is	51 mi. 14.9						
		NW of Las Vegas				51 mi.						
10	i	09 45.0										
		Trace local - 5 mi.										
10	ePZ	11 02 37							iP	11 02 46.2		
	ePN	40							i	03 01.2		
	eP	52							is	04 18.2		
	is	04 00		150						II regional		
					eP	11 09 33?						
					i	50.5?						
					eS	11 08?						
						I regional - no time correction						
10	eP	19 24 50							iP	19 24 33.5		
		Trace regional								Trace regional		
7 11	iP	22 25 20.6		+165 +125 -440	iP	22 25 26.0			iP	22 25 25.9	+28?	0 -
	isPZ	22.1		1	i	27.3			i	27.9		
	is	23.6		750 950	i	31.9			i	30.1		
		II local - 16 mi. ENE			i	32.3			is	32.4		
					is	32.6			is	32.9		
						Beginning doubtful				II - 35 mi.		
						Heavy local disturbance						
						34.3 mi.						
		Epicenter 8½ mi. ENE of Boulder Dam on E slope of Black Mountains - h = 8 mi.										
12	iP	02 56 23.5							iP	02 56 20		
	i	59 51								I distant		
	eS	03 07 15										
		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 1946 4.

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	e	06	33	15				
	ie	Tr	34	02				
	Trace distant							
12								
12	iP	18	20	57.3				-
	is			58.1				
	I local - 4 mi.							
13	eP	10	20	46.3				
	iP			50.7				
	iP			54.5				
	i		21	12.7				
	is			20			160	140
	II regional - 180 mi.							
13	iP	20	43	59				+
	Trace distant							
13								
14	eP	02	15	04				
	Trace distant							
14	iP	02	18	18.2		-		+12-60
	i			59				
	I distant - dilatation NNW							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	10	19	25				
iP			28				
es		21	15				
I regional							
iP	02	18	18.5				
I distant							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	06	34	06				
Trace distnt							
eP	13	23	04				
I distant							
iP	10	19	25.5				
i			39				
is		20	12				
II regional							
iP	20	44	00				
Trace distant							
iP	23	45	29.2				
is			31.2				
I local - 10 mi.							
iP	02	18	19.4				
I distant							

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 194 5.

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
14	iP	07	57	50.1		-10			i	07	57	55					i	07	57	56.65				+
	i			50.8																4,000 lb blast				
	iS			51.45																36.8				
	iE			52.8																				
	iS			53.3																				
	iZ			56.7																				
	iZ		58	04.8						07	58	06												
	iE			05.3						4,000 lb blast														
	e			16.3																				
	i			18.1																				
	e			18.8																				
	iZ			33.8																				
	iA			37.85						Boulder Dam														
		4,000 lb blast							eP	07	57	48.7												
		10.8 mi. E							iS			49.15												
14	iP	12	45	07.9		-	+	-																
	iS			08.5																				
		I local - 3 mi. NW																						
		Felt by one in Boulder City																						
14	iP	17	01	38.5													eP	17	01	36				
	i			48																I distant				
		I distant																						
15	i	01	41.0																					
		I local - 4 mi.																						
15	eP	03	20	55					eE	03	20	52					eP	03	20	55				
	i		21	23.5					iE		21	06					e		24	50				
	i			47					eE		24	24.5								I distant				
	e		24	20						I distant														
	e			38																				
		I distant																						
	CGS 47.3° N, 112.7° W, (Felt strongly at Seattle, Washington) O = 3:17.8																							
15	iP	07	48	41.4		-20	+10	+35																
	iS			42.1				155																
		II local - 3½ mi. NNW																						

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 1946 6.

Time used is

		BOULDER CITY								OVERTON								PIERCE FERRY							
	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
	15		iP	16	09	34.5				-	iPE	16	09	37					iP	16	09	32				
				I distant								I distant								I distant						
	16		iP	04	11	08.9				+25																
			iS			09.7																				
			I local - 4 mi.																							
8	16		iP	04	12	37.3		-300	+160	+	eP	04	12	48.9					iP	04	12	49.4				
			iS			38.0		1600	+1370	1200	iS			58					i2			55.8				
			III local - 3½ mi. ESE								44 mi.								i2			56.7				
			Felt in Boulder City																iS			58.53				
																			iS			59.1				
			Epicenter near Boulder City, 0.5 mi. ESE of station - 3½ mi. deep																	47.2 mi.						
	16		i	04	42.7																					
			Trace local - 47 mi.																							
9	16		iP	04	42	59.1		-100	+53	+170	i	04	43	13.2					iP	04	43	11.2				
			iS			59.8		1030	850	1000	iS			19.4					i			13.5				
			III local - 3½ mi. ESE								eS			20.2					ie			19.7				
			Felt in Boulder City								44.3 mi.								iS			20.3				
																			iS			20.8				
			Epicenter sameas #8																	47.2 mi.						
	16		i	04	43.7																					
			Trace local - 4 mi.																							
	16		i	04	46.4																					
			Trace local - 4 mi.																							
	16		i	05	31.1						iE	05	31.3													
			Trace local - 107 mi.									Trace local														
	16		i	05	31.3						iE	05	31.5						iP	05	31.3				
			Trace local - 107 mi.									Trace local								Trace local						
	16		i	05	52.1						iE	05	52.3						iP	05	52.3				
			I local - 10 mi.									Trace local								Trace local						

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 1946 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
16	iP	07 08 46 I distant				-	iPE	07 08 49 I distant					iP	07 08 50 I distant				
16	i	08 30.8 Trace local - 87 mi.					iE	08 30.8 Trace local					i	08 30.8 Trace local				
16	i	12 48.8 Trace local - 5 mi.											i	12 48.8 Trace local				
16	eP iP i	20 16 29.5 44.5 57 I distant					eE iE iE	20 16 40 46 58 I distant					iP i i	20 16 42 56 17 09 I distant				
16	eP e e	21 35 12 42 36 01 Trace distant											eP	21 35 50 I distant				
16	i	21 46.3 I local - 8 mi.											i	21 46.3 Trace local				
16	eP eS	22 08 07 18 47 I distant											iP eS iP iS	22 08 13 17 49 I distant 23 08 41.5 09 05 I regional				
17	eP eP	09 53 13 28 I distant					ePE	09 53 34 Trace distant					eP e	09 53 19 34.5 I dis tant				
17	iP	14 33 34 Trace regional?				+	iE	14 33 36 Trace regional					iP	14 33 36.5 Trace reg ional				

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 1946 8.

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
17	iP	17 58 53			iPE	17 59 10			iP	17 59 02.5		
	iP	57.9			i	41			iS	59 43.5		
	i	59 16				I regional				I regional		
	iS	23.5										
		Trace regional										
18	e?	~~00~~ 29 02.3							e	00 29 20		
	e	30 18.5							e	30 12		
		Trace distant								Trace distant		
18	eP	03 11.4							i	03 11.7		
		I local - 5 mi.								Trace local		
					iE	05 24 56			iP	05 24 20.8		
18						Trace regional			iS	51.3		
										Trace regional		
18	iP	10 27 41.7		+15 -15 -								
		42.5		350 175								
		II local - 4 mi. SE										
18	eP	17 36 14			eP	17 36 18			iP	17 36 20		
	e	38.3				I regional						
		I distant										
19					iP	00 54 55						
						I distant						
20	iP	03 40 33		+ - +	i	03 40 32			iP	03 40 36		
	e	59 29			e	58				I distant		
	e	04 00 07				I distant						
		I distant										
20	i	06 57.6										
		Trace local - 5 mi.										

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 1946 9.

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	
21	eP	22 54 45						ePE	22 54 55							22 54 50.9					
	e	56 12							I regional							I regional					
	i	47																			
		I regional																			
22	i	09 33.7																			
		Trace local - 5 mi.																			
22	iP	14 49 00.5						iPN	14 49 08							14 49 06					
	i	24						i	28							I distant					
		I distant							I distant												
22	iP	17 30 25		+	-	-		iP	17 30 29						iE	17 30 22.5				-	
	eP	57							I distant						eP	59.0					
	eP	31 17													eS	40 02.0					
	eS	39 38														I distant					
	e	40 52																			
		II distant - dilatation from SE																			
22-23		3 traces local shocks - ca 5 mi.																			
23															iP	05 42 23.9					
															iS	25.9					
																I local - 10 mi.					
24	i	01 40.9		+3	+20	+															
		I local - 4 mi.																			
24															iP	02 12 38					
																Trace distant					
24	i	05 22 54.3						iPE	05 23 08						iP	05 23 00					
	i	55.9						eS	50						iS	45					
	i	23 27.6							Trace regional							Trace regional					
		Trace regional																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	ePZ	06	08	40.5				
	iPZ			44.4				
	iPLN			45.7				
	iSN		09	21				
	iSe			23				
	iS			26				
	II regional							
24	eP	09	47	45				
	e		48	04				
	Trace distant							
24	iP	13	48	33.5				
	i		50	40.5				
	I distant							
24	eP	23	52	05				
	Trace distant?							
24-25	4 local shocks - trace to I - 5 to 12 mi.							
25	iP	01	58	52				
	e	02	00	33				
	I distant							
25	e	12	02	48				
	eP			51.5				
	Trace distant							
25	e	17	42	30				
	e		43	02				
	eS			43				
	iS			51				
	I regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
ePE	06	08	48				
iE		09	01				
II regional							
ePE	09	47	49				
Trace distant							
ePE	13	48	37				
Trace distant							
ePE	01	59	11				
I distant							
eP	12	02	58				
eE		03	21				
Trace distant							
eE	17	42	56				
iE		44	11.5				
e			33.5				
I regional							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	06	08	47.6				
iS		09	45.1				
II regional							
eP	09	47	42				
Trace distant							
iP	13	48	36				
Trace distant							
eP	23	52	02				
Trace distant							
iP	01	45	49.5				
iS			57.5				
I local or regional							
eP	01	58	50				
I distant							
eP	12	02	51				
Trace distant							
eP	17	41	31				
e		43	08				
I regional							

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF February 1946 11.

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
																		±
25	iP	20 10 21.5				+	iP	20 10 23					iP	20 10 24				
	i	59						Trace distant						I distant				
		I distant																
26	i	10 23.5											i	10 23 44.5				
		I local - 12 mi.												Trace local				
														Blank Film				
26	eP	19 21 57																
		Trace distant												Blank				
27	iP	06 16 56					iPE	06 16 59						Film				
	i	17 58					e	17 57										
	eS	26 12					eS	26 16										
	eS	43						I distant						Blank				
		I distant												Film				
27	iP	16 44 29.5			+	+	ePE	16 44 34										
		I distant						I distant										
28	iP	01 50 01.6				-	eE	01 50 14.5					iP	01 50 10.3				
	iS	04.6						Trace local					iS	17.8				
		Trace local - 15 mi.												Trace local				
28	eP	02 41 25					eE	02 41 32					e	02 41 23				
		Trace distant						Trace distant						Trace distant				
28	iP	06 20 10					ePE	06 20 06					iP	06 19 59				+
	iS	35					eS	27					iS	20 14				
		I regional - 130 miles						I regional						I regional				
28	iP	23 20 45.6					eE	23 21 03					iP	23 20 45.4				
	eS	21 22.6					eS	21 43					eS	21 36.4				
		I regional - 200 mi.						I regional						I regional				

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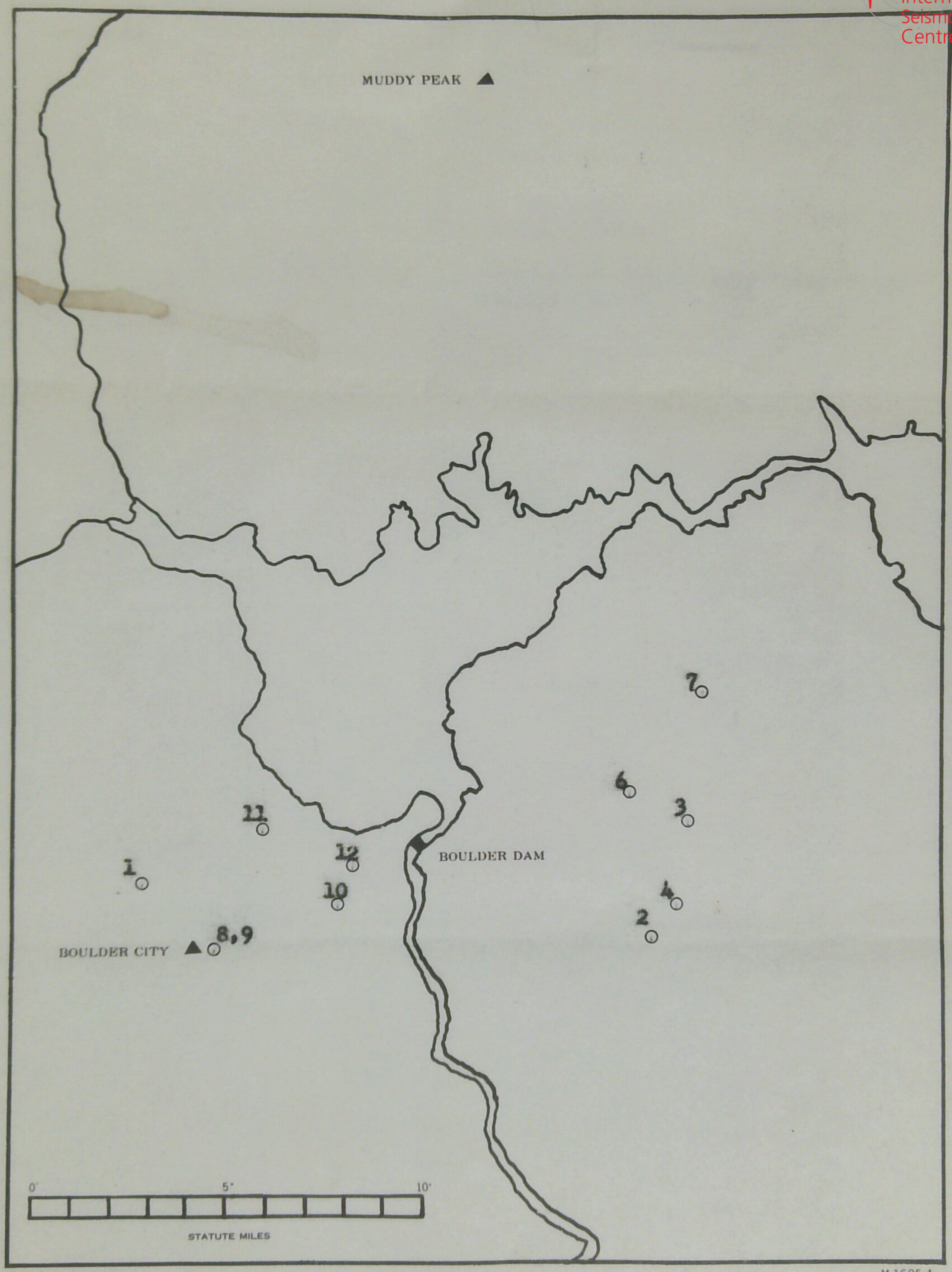

TENTATIVE EPICENTERS IN LAKE MEAD REGION
January, February and March
1946

JUN 10 1954

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS. . . . . March 1946

The stations at Boulder City, Boulder Dam and Pierce Ferry operated on routine schedules throughout March 1946. The station at Overton operated on a routine schedule until March 15, when due to light failure for several days and defective time control, records were lost until March 31.

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 be classed as distant.

Epicenters were located in the Lake Mead Region as follows:

No.	Date Mar.	G.C.T.	Location of Epicenters
10	10	07:46:05.4	(2) miles SW of Boulder Dam.
11	12	13:45:02.4	(3) miles NE of Boulder City in Hemenway wash.
12	15	05:24:39.6	(1.5) miles WSW of Boulder Dam.

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

Ep.No.	Date Mar.	G.C.T.	Intensity Description
	5	16:52:50.3	I Local at Boulder City. Felt by one.
10	10	07:06:05.4	III " " " " (Felt by few, shock momentary)
	11	02:16:18.1	II Local at Boulder City. (Felt by few)
	11	07:18:02.1	II " " " " (" " ")
11	12	13:45:02.4	IV " " " " (Felt by several, rattled windows)
	14	11:17:42.3	IV Local at Boulder City (Felt by several, rattled windows)
12	15	05:24:39.6	IV Local at Boulder City (Felt by several, rattled windows)

Confidential-not for publication.

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

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	
1	i	04 25.8		+		+															
		I Local 4 miles																			
1															iP	20 10 18					
															iS	10 41					
																I Regional					
1															i	22 08 40					
															iS	09 10					
																I Regional					
2	iP	07 55 36.5				+		ePE	07 55 35						iP	07 55 38.5					
		I Distant							I Distant							I Distant					
2	iP	23 37 21													iP	23 37 21					
		I Distant														I Distant					
3	eP	10 43 15													iP	10 43 18					
		Trace Distant														Trace Distant					
4								iPE	02 17 38.2						iP	02 17 42.7					
								iSE	50.2						iS	18 00.7					
									I Regional							I Regional 90 miles					
4	iP	09 46 06.6		+19	+50	+100		iPE	09 46 25.8												
	iS	07.6				325															
	iSZ	07.8																			
		II Local 5 miles SSW							Small Trace local												
5	iP	00 38 05.3		+44	-4	-112									i	00 38 24					
	iS	61.1				150															
		II Local 4 miles E														Trace Local					
5	iS	03 18.4																			
		Trace Local 6 miles																			
5	iP	14 02 03				+		iPE	14 02 14.0						iP	14 02 15.5					
	iS	34						iSE	02 50						iS	02 58					
		Trace Regional							Trace Regional							I Regional					

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
5						
5	iP	16 52 50.3		+15	-3	
	iS	51.1				120
	I Local 4 miles E, felt by one in Boulder City					
6						
6	i	06 49.1				
	Trace Local 3 miles					
6	iP	13 22 06.7				
	iP	36.7				
	I Distant					
6						
7						
7	eP	16 50 48.5				
	eP	51 06				
	I Distant					
7	iP	19 13 44				
	i	14 35.5				
	i	15 33				
	I Regional					
7	eP	20 59 25				
	Trace Distant					

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iE	14 06 04				
iE	07 10				
Trace Regional					
iPE	00 41 03.5				
iSE	07.5				
I Local					
ePE	13 22 07				
I Distant					
iPE	18 50 18.8				
iSE	21.3				
I Local					
eP	16 50 48				
I Distant					
ePE	19 14 46				
iE	15 51				
I Regional					
ePE	20 59 34				
Trace Distant					

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	13 22 09.5				
i	22 22 40				
eS	31 13				
I Distant					
iP	11 00 34.5				
Trace Distant					
iP	16 50 48.5				
I Distant					
eP	19 14 27.5				
i	15 47.5				
I Regional					
eP	20 59 24.5				
Trace Distant					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

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
8	eP	02 28 31					ePE	02 28 34					eP	02 28 36				
	i	32 44					iE	32 47					i	32 47				
	Trace Distant						Trace Distant						Trace Distant					
8	eP	18 42 19											eP	18 42 15				
	Trace Distant												Trace Distant					
8	eP	21 42 06											eP	21 42 17				
	Trace Distant												Trace Distant					
9	i	10 15.0																
	Trace Local 6 miles																	
9	iP	16 28 24.7			-	+15	iPE	16 28 26					iP	16 28 27.5		+?	?	+15
	i	11											iS	36 28				
	iS	36 23																
	I Distant						I Distant						I Distant					
9	eP	21 59 43											iP	21 59 39				
	iP	58.5											i	53				
	I Distant												Trace Distant					
10													i	04 19 50				
													iP	53				
													Trace Local					
9-10	2 Trace local shocks 5 miles																	
10	0	07 46 05.4					iP	07 46 17.3					iP	07 46 17.7		-		-
	iP	07 46 07.4		+285	-25	-495	iN	17.7					i	19.1				
	iS	08.7		1380	1080	1400	iS	25.4					iSZ	25.9				
	III Local 7 miles E						iS	26.0					iS	26.4				
	Epicenter 2 miles SW of Boulder Dam						41.7 miles						44.3 miles					
	Felt by few in Boulder City																	
							Boulder Dam											
							iP	07 46 6.5										
							iS	7.8										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946 4

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
10									eP	19 36 00		
									i	37 02		
										Trace Distant		
10-11		5 Traces local shocks at ca 5 miles										
11	iP	02 16 18.1		-12 -6 +								
	iS	19.0										
		I Local 4½ miles NE Felt by few in Boulder City										
11					ePE	05 13 17			eP	05 13 19		
						Trace Distant				Trace Distant		
11	iP	05 31 15.9		+12 -? +								
	i	22.7										
	iS	23.9										
		Trace Local-35 miles or 2 trace local - 5 miles ea.										
11	iP	07 18 2.1		? - -	iE	07 18 12.8						
	iS	2.9										
		II Trace-Local-4 miles S?				Trace Local						
		relt by few in Boulder City										
11	iP	11 47 07.8		-12 -8 +65								
	iS	08.7										
		I Local-4½ miles NE										
11	iP	12 04 25.4		+10 +6 -	iE	12 04 38.4						
	iS	27.8										
	iS	28.4										
		I Local-12 miles ENE				Trace Local - poorly recorded						
11	iP	21 49 49.4		-6 +10 +								
	iS	50.4										
		I Local-5 miles SE										
11-12		5 Traces local shocks ca 5 miles										

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																	i	18	46	46.5				
																		iS		47	17.5				
																		I Regional							
	12	eP	00	13	20					ePE	00	13	27					eP	00	13	17				
		iP			24													iP		13	21				
		eS		22	46													eSN		22	46				
		I Distant									I Distant							I Distant							
	12	e	02	41	02					e	02	41	21					e	02	40	37				
		e			15																				
		Trace Distant									Trace Distant							Trace Distant							
	12																	iP	04	47	01				
																		Trace Distant							
	12	e	08	49	22					e	08	49	33					e	08	49	31				
		e			26																				
		Trace Distant									Trace Distant							Trace Distant							
	12	iP	10	14	17.8		-20	-12	+75	iE	10	14	28.8					i	10	14	33				
		iS			18.7				190																
		II Local 4½ miles ENE									Trace Local							Trace Local							
	12	iP	10	17	43.4		-10	-12	+50																
		iS			44.3				120																
		I Local 4½ miles NE																							
	12																	iP	11	07	48.2				
																		iS			49.0				
																		I Local 5 miles							
11	12	0	13	45	02.4					iP	13	45	14.0					iP	13	45	15.0				
		iP	13	45	03.6		-130	-120	+490	iSZN			22.0					iZ			16.3				
		iS			04.4		695		640	iSE			22.6					iZ			22.1				
																		iSZ			23.6				
		III Local 4 miles NE. Epicenter 3 miles NE of Boulder City. in Heminway Wash. Felt by several in Boulder City																iSE			24.1				
																		iSE			28.0				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

Time used is

	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
13																	eP	00	06	05				
																	eS		09	33				
																	Trace Distant							
13																	eP	07	31	51				
																	Trace Distant							
13	eP	08	59	44					eP	08	59	44					eP	08	59	45				
																	i			50				
		I Distant								I Distant								I Distant						
13	i	15	58.0																					
		Trace local 4 miles																						
14																	iP?	09	18	08				
																		I Local						
14	iP	10	35	28.3		+8	+5	-30																
	iS			29.8			150	145																
		II Local 7½ miles NE																						
14	iP	11	17	42.3		+16	+6																	
	iS			43.4				100																
		I Local 5½ miles ENE. Felt in Control room - Boulder Dam																						
15	eP	03	15	41					ePE	03	15	49					eP	03	15	44				
	eP			45													eP			48				
		I Distant								I Distant								I Distant						
15	iP	04	50	20.5				+	iPE	04	50	20					iP	04	50	23.5				
		I Distant								I Distant								I Distant						
15	eP	05	20	36.7					iE	05	20	34.6					i	05	20	41				
	iP			38					iPE			39.6					iP			48				
	iS		21	10					iSE		21	12.6					iS		21	28				
		Trace Regional								Trace Regional								Trace Regional						

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

Time used is

M 1073 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
~~14~~ 15	0	05	24	39.6																				
	iP	05	24	41.2		+61	-8	-105	iP	05	24	51.2					eP	05	24	51.7				
	iS			42.3					iE			56.9					iP			52.7				
	iS			42.6		470		600	iSZ			59.1					iSZ		25	59.6				
									iSE			59.7					iSE		25	00.0				
	II+ Local 5.7 miles E. Felt widely in Boulder City. Epicenter 1½ WSW miles of Boulder Dam																							
15	eP	07	58	12					eP	07	58	46					eP	07	58	45				
	I Distant																	I Distant						
15	iPE	13	21	42.8		+136	0	+205	iPE	13	21	50		+56			iP	13	21	52				
	iP			43.0			+25																	
	iP			46.7						Δt assumed														
	Next 90 sec.-record blank									Next 120 sec.-record blank														
	III Regional-ca 185 miles W									III Regional								III Regional						
	Ist big shock of a swarm. Felt widely in S. California.																							
15	e	13	27	26.4						illegible								illegible						
	II Regional - aftershock																							
15	e	13	31	20.5													e	13	31	35				
	II Regional - aftershock																	II Regional - aftershock						
15	e	13	35	0					e	13	35	20					e	13	35	15				
	I Regional aftershock									I Regional aftershock Δt assumed								I Regional aftershock						
15	iP	13	39	11					i	13	39	51					e	13	39	23				
	I aftershock 190 miles Regional									I Regional aftershock								I Regional aftershock						
15	iP	13	41	07.5					iP	13	41	12					iP	13	41	19				
	II Regional aftershock									II Regional aftershock Δt assumed								II Regiohal aftershock						
15	i	13	45.8														i	13.	46.0					
	Trace Regional aftershock																	Trace Regional aftershock						
15	iP	13	48	06					iP	13	48	05					iP	13	48	03				
	I Distant									I Distant Δt assumed								I Distant						

LAKE MEAD SEISMOLOGICAL STATIONS — MONTH OF March 1946 — 8

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

Time used is

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International Seismological Centre

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
15	i	13 49.6 Trace Regional aftershock											i	13 49.7 Trace Regional aftershock				
15	iP iP iP?	13 50 18.4 22.4 26.9		+235	+12	+360	iP	13 50 22 Δt assumed					iP	13 50 28				
		Next 100 sec.-record blank III+ Regional Heaviest shock of swarm. Caused damaging rock slides across Los Angeles aqueduct. Felt widely in S. California. C.G.S. 35.7°N, 118°W (Felt over large area in California. Moderate damage.) O=13:49.6 Δ=174 miles.						Next 360 sec.-record blank						Next 150 sec.-record blank III Regional				
15	iP?	14 01 18.4 III Regional aftershock Beginning indefinite					iP?	14 01 02 III Regional aftershock Δt assumed					iP?	14 01 28 III Regional aftershock				
		Following are afterahocks except as noted																
15	i	14 08.0 Trace																
15	iP iP iS	14 08 56.6 58.6 09 33 II Regional					iP iS	14 09 10 II Regional No time control					iP iP iS	14 09 00 09 13 09 50 II Regional				
15	i	14 14.0 I Regional					i	14 14.0 I Regional					i	14 14.1 I Regional				
15	i	14 14.6 I Regional											i	14 14.9 I Regional				
15		14 20 14 27 5 or 6 - I Regional					iP	14 20.0 I Regional					iP iP iS	14 20 47 55 21 38 I Regional				
15	i	14 31 I Regional					i	14 31.0 I Regional					i	14 31.0 I Regional				

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	
15	i	14 41.5 I Regional Followed by several traces						i	14 41.5 I Regional						i	14 41.0 I Regional Followed by several traces					
15	i	14 46.7 Trace Local - 4 miles													i	14 46.8 Trace Local					
15		14 51.5 3 or 4 - I Regional													i	14 51.8 3 or 4 -I Regional					
15	i	14 58.2 about II Regional													i	14 58.7 II Regional					
15	iP iP iP S.	15 00 52.0 55.8 57.8 - lost II or III Regional					+	eP?	15 00 59 Δt assumed II Regional						iP iP	15 01 00 01 08 II Regional					
15		15 00 15 to 31 6 or t Traces Regional														15 00 15 to 31 6 or 7 Traces Regional					
15		15 31 15 to 41 5 - I Regional							FILM LOST							15 31 15 to 41 about 5 traces Regional					
15		15 41 16 to 00 6 traces Regional							DUE TO							15 41 16 to 00 about 6 traces Regional					
15		16 09.3 Trace Regional							LIGHT FAILURE							16 09.5 Trace Regional					
15		16 16.8 Trace Regional														16 16.0 Trace Regional					
15																16 16.8 1 Trace					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF March 1946 10

Time used is

	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		16 22 16 to 26 4 - I Regional														16 22 16 to 26 4 - I Regional					
15		16 34 16 to 40 4 - I Regional							FILM							16 34.8 16 to 40 4 Traces Regional					
15		16 40 16 45. 4 - I Regional							LOST DUE							16 40.4 16 45 4 - I Regional					
15		16 55 I Regional							TO							16 55.4 Trace Regional					
15		17 05 2 - I Regional							LIGHT FAILURE												
15		17 16+ 2 - I Regional													iP i	17 16 14 16 24 I Regional					
15															iP	17 23 08 Trace Regional					
15		17 24 I Regional														17 23 58 Trace Regional					
15															i	17 30 22 Trace					
15		17 33 2 traces Regional																			
15		17 36+ I Regional													iP iS	17 36 22 37 15 I Regional					

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
15		17	42+														iP	17	42	57				
																	iP		42	07				
																	iS		42	52				
		I Regional																I Regional						
15		17	46+														eP	17	45	56				
																	iS		46	38				
		Trace & II Regional																I Regional						
15		17	57+																					
		Trace Regional																						
15		18	00														i	18	00					
		18 to 35										FILM						18 to 35						
		4 Traces Regional																4 Traces Regional						
												LOST												
15	18	18.	36.5														i	18	36.1					
		I Regional										DUE						I Regional						
15		18	44															18	44					
		19 to 19										TO						19 to 19						
		3 Traces - 2 - I Regional										LIGHT						3 Traces - 2 - I Regional						
15	iP?	19	19	35.3		+		+10				FAILURE					iP	19	19	45				
	iP			36.1		+65	0	+100																
	iP			42.5																				
	iS		20	09.5																				
	iS			18														Next 120 sec.-Blank film						
		III Regional																III Regional						
15	iP	19	25	23.5													iP	19	25	38				
	iP			29													iS		26	13				
	iS		26	04.5														II Regional						
	II Regional																							
15		19	27.5														i	19	28	33				
		Trace Regional																Trace Regional						

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF **March** 1946 12

Time used is

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BOULDER CITY

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	iP	19	49	38.5				
	iP			43				
	iP			45.5				
	iS		50	12				600
	IS			18.5				
	II+ Regional							
15		19	55					
		21 to	55					
	16 Traces Regional							
15	iP	21	55	16				+22
	iP			21				
	i			51.5				
	III Regional							
15		22	00					
		22 to	54					
	(2)-I Regional & t Traces Regional							+
15	iP	22	54	43				
	iP			49				
	e		55	21				
	iS			25				
	II Regional							
15		23	25					
		23 to	40					
	3 Traces Regional							
15	iP	23	43	10.5				
	iP			17				
	iS			52				
	II Regional							
15		23	50					
	I Regional							
16		00 to	00					
		09	30					
	(3)-I Regionals & 41 Traces Regionals							

OVERTON

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

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International Seismological Centre

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	09	47	00.5		-		-									iP	09	47	10				
	iP			02.5													iP		47	12				
	iP			06													iS?		47	53				
	i			36																				
	iS			42																				
	III Regional																	III Regional						
16		09	10															10	01					
		13 to 17																10 to 31						
	4 Traces Regional									FILM								3 Traces Regional						
16										LOST							iP	10	32	54				
										DUE							iP		33	05				
										TO							iS		33	45				
																		I Regional						
16										LIGHT							iP	13	03.4					
																		Trace Regional						
16										FAILURE							iP	13	08	01				
																	iP		08	10				
																	iS		08	45				
																		II Regional						
16	iP	13	17	50.7																				
	iP			56.0																				
	iS		18	32																				
	I Regional																							
16		13	20																					
		16 to 00																						
	(2)-I Regional																							
16																	iP	13	25	31				
																	i			41				
																	iS		26	19				
																		I Regional						
16																	iP	15	20.8					
																		Trace Regional						

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Time used is

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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
16																	iP	15	23	22				
																	iP		23	32				
										FILM							iS		24	14				
																		I Regional						
										LOST														
16	iP	17	57	25.8													iP	17	57	39				
	eS			59.3						DUE							iS		58	22				
		I Regional																I Regional						
										TO														
16	eP	19	54	40.5													iP	19	54	50				
	iP			46.5						LIGHT							iP			59				
	eS			21.5													iS		55	39				
		I Regional								FAILURE								I Regional						
16	iP	21	41	31.5													iP	21	41	36				
	E		42	00.5													i			44				
	e			07													iS		42	28				
		I Regional																I Regional						
16																	iP	23	42	24				
																	iP		42	26				
																	iS		43	08				
																		I Regional						
16	iP	23	45	17.6				+									iP	23	45	22				
	e			52.5													iP		45	30				
																	iS		46	13				
		I Regional																I Regional						
										NO														
16		16	00																					
17		16	00							TIME														
		20 Traces Regional																						
										CONTROL														
17																		00	00					
																		06	03					
																		9 Traces Regional						
17	iP	06	04	30				+									iP	06	04	40				
	iP			36													iP			49				
	e		04	13													iS		05	29				
		II Regional																II Regional						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

Time used is

	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
17	iP	06	51	21.7		+10	-15	+62									iP?	06	51	42				
	iS			22.6				130																
	I Local 4½ miles NW. Felt in Boulder City																Small Trace Local							
17	iP	08	17	18		+		+									iP	08	17	28				+
	iP			24													iP		17	37				
	iP			25.5													iS			19				
	eS																							
	II Regional																II Regional							
17	eP	09	05	25													iP	09	05	40				
	iP			31													iS		06	27				
	iS		06	00.3																				
	iS			05																				
	I Regional									NO							I Regional							
17	iP	09	26	35.6													iP	09	26	45				
	iP			42						TIME							iP			55				
	iS		27	17													iS		27	36				
	II Regional									CONTROL							II Regional							
17	iP	14	46	51.5		+	-	+									iP	14	46	57.5		+	-	+
	eP			59.5													eP		47	05				
	iP		47	03.5													iP		48	26				
	e?			28													e?		49	00				
	III Regional. Probably no swarm																III Regional							
17	eP	20	54	42													eP	20	54	50				
	iP			44.7													iP			57				
	eS		55	17.7													iS		55	40				
	I Regional																I Regional							
17																	eP	21	09	40				
																	Trace Regional							
17	eP	21	19	18.5													eP	21	19	30				
	iP			24.5													iP			38				
	e		20	00													e		20	24				
	I Regional																I Regional							

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

Time used is

International Seismological Centre

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
17		16	00					
18		16 to	00					
		17 Traces Regional						
18	eP	01	15	52.1				
	iP			57.9				
	eS		16	34.5				
		I Regional						
18	eP	03	01	03				
	iP			08				
	eS			42.5				
		II Regional						
18	eP	05	44	22.5				
	iP			28.5				
	eS		45	03.5				
		I Regional						
18	iP	10	06	37.7		+		+
	iP			41.7				
	iP			43.7				
	m						1000	
	eS		07	19			500	
		III Regional						
18	eP	15	05	16				
	iP			19				
	eS			53				
		I Regional						
18	iP	15	50	07		+	0	+
	iP			11				
	iP			14				
	m						1100	
	e			45				
	i		51	22			1600	2000+
		III Regional - probably 2 shocks						

OVERTON

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		NO						
		TIME						
		CONTROL						

PIERCE FERRY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
		16	00					
		16 to	00					
		17 Traces Regional						
	eP	01	16	02				
	iP		16	11				
	eS		16	57				
		I Regional						
	eP	03	01	13				
	iP		01	20				
	iS		01	59				
		II Regional						
	eP	05	44	32				
	iP			42				
	iS		45	26				
		I Regional						
	iP	10	06	47		+		+
	iP			56				
	iS		07	33				
		III Regional						
	iP	15	05	33				
	eS		06	15				
		I Regional						
	iP	15	50	16				
	iP		50	24				
	iP		50	51				
		Next 70 sec. blank film						
		III Regional						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

Time used is

	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
18	eP	16	04	28													eP	16	04	35				
	iP			32													iP			45				
	iS		05	04													iS		05	26				
	I Regional																I Regional							
18	eP	16	55	02													eP	16	55	20.5				
	iP			07													iP		55	30.5				
	i			37																				
	i			45.5																				
	I Regional																I Regional							
18	eP	21	13	11.5						NO							eP	21	13	20				
	iP			14.5													iP		13	26				
	eS			46.5						TIME							eS		14	08				
	I Regional																I Regional							
18	16	16	00							CONTROL								16	00					
19		16	00															16	00					
	6 Traces Regional																20 Traces Regional							
19	eP	06	18	23													eP	06	18	34.5				
	iP			37													iP			40				
	eS			59													eS		19	22.5				
	I Regional																I Regional							
19	eP	08	16	25													eP	08	16	35.5				
	iP			29													iP			41.5				
	eS		17	02													eS		17	23.5				
	I Regional																I Regional							
19	eP	08	46	24													eP	08	46	34				
	iP			30													iP			44				
	eS		47	03													eS		47	31				
	I Regional																I Regional							
19		16	00																					
20		16	00																					
	5 Traces Regional																							

International Seismological Centre

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

Time used is

	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
20	i	04	14.5																					
		Trace Local																						
20		16	00																					
21		16	00																					
		2 Trades Regional																						
21																	eP	10	49	56				
																	iP		50	05				
																	eS			47				
																	I Regional							
21	eP?	13	13	14.5													eP	13	13	26				
	i			22.5													iP			33				
	iP			24.5													eS			13				
	eS			54							NO													
	I Regional																I Regional							
21	e	19	35	47							TIME						e	19	35	48				
	iP			51.5							CONTROL						iP			55				
	iS		36	26.5													iS		36	48				
	I Regional																I Regional							
22	e	04	24	03													e	04	24	12				
	iP			05													iP			18				
	iS			39													iS		25	00				
	I Regional																I Regional							
22	i	09	50.5																					
	Trace Regional																							
22	eP	10	09	00.6													eP	10	09	15				
	iP			19													iP			31				
	iS			51.4													iS		10	14				
	May [illegible] not be aftershock																I Regional							
22	e	12	36	51.5													e	12	37	00				
	iP			57													iP		37	09				
	eS		37	55													iS			52				
	I Regional																I Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

Time used is

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
23	e?	09	37	46.7				
	iP			51.8				
	iS		38	29.8				
	Trace Regional							
23	iP	12	41	48.9		-8	+21	-35
	iS			50.1				
	I Local - 6 miles [illegible]							
23	i	12	42.4					
	Trace local - 6 miles							
23	i	18	12.6					
	Trace Regional - aftershock							
23-24	3 traces - local, 2 at 5 miles and 1 at 15 miles							
24	iP	02	57	28.4				
	iP			34.3		+		+
	eS		58	07				
	I Regional - aftershock							
24	iP	04	07	26.9		+23	+13	-50
	iZ			28.3				
	iS			29.9				
	I Local - 15 miles [illegible]							
24	iP	05	18	09.3				
	iP			16.1				
	eS			52				
	I Regional - aftershock							
24	iP	15	45	59				-
	i		46	10				
	I Distant							
24	iP	20	00	46		+	0	+
	iP			52				
	e		01	17				
	eS			27				
	II Regional - aftershock							

OVERTON

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

BD

Time

CONTROL

PIERCE FERRY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	e	09	37	36				
	iP		38	06				
	iS			51				
	I Regional							
	i	12	42.1					
	Small trace local							
	i	18	12.7					
	Trace Regional							
	iP	02	57	37.5				
	iP			45				
	iS		58	31				
	I Regional							
	iP	04	07	31.7				
	iS			38.7				
	I Local 35 miles							
	iP	05	18	19.5				
	iP			25				
	iS		19	09				
	I Regional							
	iP	15	46	02				-
	i		46	15				
	I Distant							
	iP	20	00	56				+
	iP		01	03				
	i		01	16				
	eS		01	45				
	II Regional							

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

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
24	eP	21 26 09.5											eP	21 26 08				
		I Distant												I Distant				
24-25		3 Traces - Regional aftershocks												3 Traces - Regional aftershocks				
25	iP	02 21 00.6											i	02 21 06				
	iS	04.1											iS	14				
		Trace Local - 17 miles												Trace local				
25	iP	08 55 08	1.0	-?		+							iP	08 55 02				
		I Distant												I Distant				
25	iP	11 08 11				-							iP	11 08 25				
	iP	16											iP	29				
	eS	52											eS	09 14				
		I Regional - aftershock												I Regional				
25	iP	22 22 40		-	+	+	NO						iP	22 22 35		?	?	+
	e	25 41											e	45				
	eS	32 26					TIME						eS	32 27				
		I Distant compression SE												I Distant				
							CONTROL											
25	iP	23 37 27.8		+	0	+							iP	23 37 37.6				+
	iP	34											iP	47.1				
	eS	38 04											eS	38 30.6				
	eS	09																
		II Regional - aftershock												II Regional				
25-26		2 Traces Regional aftershocks												2 Traces Regional				
26	i	00 09.2																
		I Local - 5 miles																
26	iP	06 07 53.2				+							iP	06 08 03.1				
	iP	59											iP	08 11.9				
	eS	08 33.5											eS	08 55.9				
		I Regional aftershock												I Regional				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 1946

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
26	e?	17	28	08													e?	17	28	16				
	eP			17.5													eP			23				
	e		30	41													e		30	51				
	iS?		31	47													eSZ		31	51				
	I Distant?																I Distant							
26	e	22	40	27.3													e	22	40	39.4				
	iP			33													iP			45.9				
	eS		41	06													eS		41	25.4				
	I Regional aftershock																I Regional							
27	e	06	04	15						NO							e	06	04	16				
	Trace Distant																Trace Distant							
										TIME														
27	eP	11	17	40.5													eP	11	17	50				
	iP			46.5						CONTROL							iP			59.5				
	eS		18	21													eS		18	44				
	Trace Regional aftershock																Trace Regional							
28	i	03	23.3																					
	I Local - 5 miles																							
28	i	04	25.6																					
	Trace Local - 5 miles																							
28	i	08	06.9																					
	Trace Local - 5 miles																							
28	i	12	57.2																					
	I Local - 5 miles																							
28	i	12	58.0																					
	I Local - 5 miles																							
28	i	15	26	58													i	15	27	42				
	i		27	03													iP			52				
	i			40													iS		28	37				
	i		28	13																				
	2 Traces Regional - aftershocks																I Regional							

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF March 194 6 22

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
27-28														3 Traces Regional				
28	iP	21 54.4 I Local - 5 miles		+		+												
28-29		3 Traces Regional - aftershocks																
29	i	00 35.5 Trace Local - 6 miles																
29	iP iP eS	00 45 19.6 23.3 58 Trace Regional - aftershock											iP iS	00 45 34 46 17 Trace Regional				
29	iP	02 28.7 I Local - 4 miles		+?		+		NO										
29	i	04 42.2 Trace Local - 15 miles						TIME										
29	iP i	05 51 57.5 52 24.5 Trace Distant						CONTROL					iP i	05 51 00 51 29 Trace Distant				
29	i	05 55.7 Trace Local - 5 miles																
29	i P	06 11.8 I Local - 5 miles				+												
29	iP	07 26 17.7 I Distant				+							iP	07 26 14 I Distant				
29	eP? eS	07 34 55 42 02 I Distant											iP i	07 34 52 35 11 I Distant				

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF March 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
29	i	08	23	15				
	iP			21				
	eS			57				
	Trace Regional - aftershock							
29								
30	iP	00	11	07.3				
	I Distant							
30								
30	iP	10		24.6				
	I Local - 12 miles							
31	iP	07	13	23				
	i			26				
	Trace Distant							
31	e	13	53	12				
	iP			13				
	eS			48				
	Trace Regional							
31	i	21		41.2				
	Trace - 5 miles							
31	e	21	48	47				
	e		49	37				
	Trace Regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	NO						
	TIME						
	CONTROL						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
i	08	23	33				
eS		24	17				
Trace Regional							
iP	13	32	22				
iS			45				
I Regional							
iP	00	11	03				
I Distant							
iP	00	27	08				
Trace Distant							
iP	07	13	23				
i			29				
Trace Distant							
e	13	53	19				
iP			20				
eS		54	03				
Trace Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . April 1946

The stations at Boulder City, Boulder Dam and Pierce Ferry operated on routine schedules throughout April 1946. Due to light failure causing defective time control during the first 12 days, readings for the Overton station are not included in this report for that period. Thereafter the Overton station operated on routine schedule.

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 be classified as distant.

Epicenters were located in the Lake Mead Region as follows:

No.	Date Apr.	G. C. T.	Location of Epicenters
13	20	17:16:27.0	(1½) miles NE of Boulder Dam at entrance to Black Canyon
14	24	04:06:56.3	(5.7) miles WNW of Pierce Ferry in N end Gregg Basin - h = 8 miles

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

Comfidential-not for publication.

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** 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
1	i	01 26.2				
		Trace Local 15 miles				
1	e	06 15 34				
		Trace Distant?				
1	eS?	11 00 14				
		Trace Distant				
1	eP?	12 36 11		-	?	-
		very gradual emersio				
	eP	14				-
	iP	44				
	e	41 48				
	m	49.0				
		II 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
e	06 15 40				
	Trace Distant				
e	11 00 16				
	Trace Distant				
eP?	12 36 19				
e	51				

C.G.S. 54°N. 164°W (South of Unimak Island) O=12:28.9 Δ=2650 miles

First of a swarm of severe shocks which centered in the Pacific, south of Unimak Island, some of which created giant seismic sea waves. The following probably are associated with member shocks of this swarm, unless otherwise designated, except that some of impulsive arrivals designated as iP may possibly have been core or other reflections from a previously designated shock.

1	i	13 40.7															
		Trace Local 5 miles															
1	iP	12 42 58												eP	12 42 11		
		I Distant													I Distant aftershock		
1	i	12 49.7															
		I Local - 5 miles															
1	iP	13 .00 00				-40								iP	13 00 03		
		II Distant on Surface Waves of earlier shocks													II Distant - Surface Waves		
1	iP	13 03 07.5		-25	+20	-112								iP	13 03 11		
	m					490								iS?	09 07		
	iS?	09 00															
		III Distant - Probably main shock of swarm													II Distant - Probably main shock of swarm		

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF April 1946

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	i	13 20 29																
	i	21 12																
		Trace Distant																
1	i	13 24 43																
		Trace Distant																
1	iP	13 27 18.5				-							iP	13 27 21				
		I Distant												I Distant				
1	iP	13 33 43											iP	13 33 50				
		I Distant												I Distant				
1	iP	13 36 08				-25							iP	13 36 12				
	iP	20.7				-210												
		II Distant												II Distant				
1	i	13 40 17																
		Trace Distant																
1	iP	13 41 50				-							iP	13 41 54				
		I Distant						NO						I Distant				
1	iP	13 47 53				-		TIME					iP	13 47 55				
		I Distant												I Distant				
								CONTROL										
1	i	14 01 51											i	14 01 56				
		Trace Distant												Trace Distant				
1	iP	14 06 55											iP	14 06 59				
		I Distant												Trace Distant				
1	iP	14 09 08		-														
		I Distant																
1	iP	14 13 46											iP	14 13 51				
		I Distant												I Distant				

International Seismological Centre
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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF April 1946

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	i	14 22 11 Trace Distant											i	14 22 15 Trace Distant				
1	iP	14 23 41 I Distant											iP	14 23 45 I Distant				
1	i i	14 32 49 33 33 I Distant											i i	14 32 51 33 37 I Distant				
1	i	14 40 18 Trace Distant											i	14 40 21 Trace Distant				
1	i	14 51 58 Trace Distant											i	14 52 02 Trace Distant				
1	i	14 55 02 Trace Distant						NO					i	14 55 06 Trace Distant				
1	i	15 13 48 Trace Distant						TIME										
1	i	15 19 34 I Distant						CONTROL					i	15 19 37 I Distant				
1	i	15 27 41 I Distant											i	15 27 44 I Distant				
1	i	15 46 00 I Distant											i	15 46 04 I Distant				
1	iP	15 57 52 II Distant											iP	15 57 54 I Distant				
1	iP	15 59 24 I Distant											iP	15 59 29 I Distant				
1	eP	16 10 20 I Distant											eP	16 10 19 I Distant				

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946

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
1	iP	16 15 52.5											iP	16 15 54				
	e	17 24											e	17 27				
		I Distant												I Distant				
1	iP	16 27 51											iP	16 27 55				
		I Distant												I Distant				
1	iP	16 53 56											iP	16 54 00				
		I Distant												I Distant				
1	iP	16 57 26											iP	16 57 30				
		I Distant												I Distant				
1	iP	17 06 37				+							iP	17 06 38				
		I Distant												I Distant				
1	iP	17 47 37											iP	17 47 40				
		I Distant						NO						I Distant				
1	iP	18 04 16				-		TIME					iP	18 04 19				
		I Distant												I Distant				
1	iP	18 20 05.5						CONTROL					iP	18 20 09				
		I Distant												I Distant				
1	iP	18 35 13				-							iP	18 35 27				
		I Distant												I Distant				
1	iP	18 36 54				-							iP	18 36 57				-
		I Distant												I Distant				
1	iP	19 04 55.3				-							iP	19 04 59				-
	e	10 38											e	11 01				
		II Distant												II Distant				
1	iP	19 40 29											iP	19 40 33				
		I Distant												I Distant				
1	iP	19 48 13											iP	19 48 17				-
		I Distant												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 1946

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	19 59 48 I Distant				-							iP	19 59 51 I Distant				-
1	iP	20 11 09.5 I Distant				-							iP	20 11 13 I Distant				
1	iP	20 45 17 I Distant						NO					iP	20 45 21 I Distant				-
1	iP iP	20 50 36 45 I Distant						TIME CONTROL					iP	20 50 40 I Distant				-
1	iP	23 15 51 I Distant											iP	23 15 54 I Distant				
1-2		67 Traces Distant - in addition to measured shocks in 24 hr. period 1600 to 1559												67 Traces Distant - in addition to measured shocks in 24 hr. period 1600 to 1559				
2	iP	01 05 46.5 I Distant											iP	01 05 50 I Distant				
2	iP	01 36 01.5 I Distant											iP	01 36 04 I Distant				
2	iP eS	04 21 00 26 50 I Distant											iP eS	04 21 03 27 03 I Distant				+
2	iP iS	04 45 04.4 07.3 I Local		+15	+?	-35	iPE iSE	04 50 04 06 I Local no Δt					iP iS	04 45 09 45 17 I Local				
2	eP	05 00 55.5 I Distant				-							iP	05 00 59 I Distant				-
2	iP eS	05 45 33.3 51 23 I Distant				-							iP eS	05 45 37 51 35 I Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946 — 6

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
2	iP	06 04 26				-
		II Distant				
2	iP	06 08 38				
		I Distant				
2	iP	11 33 23.5				-
		I Distant				
2	iP	12 42 28.5				-
		I Distant				
2	iP	13 11 42				-
		II Distant				
2	iP	13 29 34.5				
		I Distant				
2	iP	14 34 47.5				-
		I Distant				
2	iP	15 15 53.5				
		I Distant				
2	iP	15 27 22				
		I Distant				
2	iP	16 35 47				
		I Distant				
2	iP	16 37 46				
	i	38 09				
	e	40 49				
	e	43 19				
	e	54				
	e	49 05				
	i	37.5				
		II Distant				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	NO				
	TIME				
	CONTROL				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	06 04 29				
	II Distant				
iP	06 08 42				
	I Distant				
iP	11 33 17				-
	I Distant				
iP	12 42 32				-
	I Distant				
iP	13 11 45				-
	II Distant				
iP	13 29 38				-
	I Distant				
iP	14 34 50				-
	I Distant				
iP	15 15 55				
	I Distant				
iP	15 27 24				
	I Distant				
iP	16 35 51				
	I Distant				
iP	16 37 49				
	II Distant				
eS	43 50				
e	49 12				
	I Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1964

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
2	eP	19 38 55											eP	19 38 57				
	I Distant												I Distant					
2	iP	20 24 27											iP	20 24 31				
	I Distant												I Distant					
2	iP	21 56 43											iP	21 56 46				
	I Distant												I Distant					
2	iP	23 08 06											iP	23 08 09				
	I Distant												I Distant					
2-3	19 Traces distant - 2 Traces local, 5 - 10 miles												19 Traces distant					
3	e	03 32 00											iP	03 32 01				
	e	33 52											i	35 22				
	i	35 22.5																
	I Distant						NO						I Distant					
3	eP	08 47 26					TIME						iP	08 47 31				
	I Distant												I Distant					
3	iP	09 05 54					CONTROL						iP	09 05 58				
	I Distant												I Distant					
3	eP	18 43 43											eP	18 43 47				
	I Distant												I Distant					
3	eP	19 16 39											eP	19 16 45				
	I Distant												I Distant					
3	iP	21 47 56											iP	21 47 59				
	I Distant												I Distant					
3-4	4 Traces distant												4 Traces Distant					
4	eP	07 22 32.5											eP	07 22 36				
	I Distant												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 1946 — 8

Time used is

No. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
4	BOULDER CITY	iP	09 02 11				
			I Distant				
4		eP	12 19 10				
			I Distant				
4		iP	16 38 26.5				
			I Distant				
4		iP	21 33 02		-		-
		i	16.5				
		e	38 01				
		eS	53				
		eS	39 08				
			II Distant				
4-5			5 Traces distant + 1 Trace local 3 miles				
5		iP	01 29 30.5				
			I Distant				
5		iP	04 48 05.5				
			I Distant				
5		iP	07 03 04.5				
			I Distant				
5		iP	07 37 53.5				
			I Distant				
5		iP	18 37 55				
			I Distant				
5		iP	20 26 13				
			I Distant				
5		iP	21 07 43				
			I Distant				

No. Date	Station	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	OVERTON		NO TIME CONTROL				
4	PIERCE FERRY	iP	09 02 14				
			I Distant				
		eP	12 19 12				
			I Distant				
		eP	16 38 31				
			I Distant				
		iP	21 33 05		-		-
		i	33 17				
		eSE	39 04				
			II Distant				
			5 Traces distant				
		iP	01 29 34				-
			I Distant				
		iP	04 48 09				
			I Distant				
		iP	07 03 08				
			I Distant				
		iP	07 37 57				-
			I Distant				
		iP	18 37 59				
			I Distant				
		iP	20 26 17				
			I Distant				
		iP	21 07 41				
			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 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
5	iP	21	58	19				
	iP			47				
	i	22	01	56				
	I Distant							
6	eP?	03	25	56				
	i		27	05				
	i		30	46				
	I Distant							
6	iP	04	59	54		-?	-?	-
	eS	05	05	45				
	I Distant							
6	e	06	03	44				
	Trace Distant							
6	iP	14	04	57				
	I Distant							
6	iP	14	28	38				+
	I Distant							
6								
6	e?	17	49	24				
	Trace Distant indefinite							
7	i	04	00	07				
	i			10.5				
	i			45				
	Trace Regional							
7	e	05	21	42				
	Trace Distant							
7	iP	07	24	25				-
	I Distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	NO						
	TIME						
	CONTROL						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	21	58	22				
iP			51				
i	22	01	55				
I Distant							
iP	03	25	58				
i		27	07				
i		30	49				
I Distant							
iP	04	59	59		-?	+	-
eS	05	05	55				
I Distant							
e	06	03	48				
Trace Distant							
iP	14	04	57				
I Distant							
iP	14	28	42				+
I Distant							
e	17	47	08.5				
i			29				
i		48	33				
i		48	45				
Trace Distant							
i	04	00	23.5				
iP			25				
i		01	08				
Trace Regional							
e	05	21	34				
Trace Distant							
iP	07	24	29				
I Distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946 — 10

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
7	iP	07 53 57 I Distant											iP	07 54 01 Trace Distant				
7	iP	08 11 33 I Distant											iP	08 11 36 I Distant				
7	e iP eS	08 29 11 15 52 I Regional											e iP eS	08 29 23 29 30 12 I Regional				
7	iP	10 14 48 I Distant											iP	10 14 52 I Distant				
7	eP	14 36 20.5 I Distant						NO					iP	14 36 26 I Distant				
7	iP	23 00 14 I Distant						TIME					iP	23 00 18 I Distant				
7	e	23 25 32 Trace Regional ?						CONTROL					e	23 24 57 Trace Regional ?				
7-8		3 or 4 Traces distant												3 or 4 Traces distant				
8	i	01 02 23 Trace distant											i	01 02 27 Trace distant				
8	i	14 28.0 Trace local - 9 miles																
8	iP eS	15 24 28 30 38 I Distant		-	+	-25							iP eS	15 24 32 30 30 I Distant		-	+	-88
8	eP iP e	17 43 48.5 44 19.5 49 43 I Distant											eP iP eS	17 43 53 43 55 49 51 I Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946

Time used is

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
8-9		5 Traces distant (Alaska Swarm?) 2 Traces local - 5 miles												about 5 Traces distant (Alaska Swarm?)				
9	iP	02 45 29 Trace Distant				+							iP	02 44 32.5 Trace Distant				+
9	i e	05 10 33.5 11 08 Trace regional											i e	05 10 45 11 29 Trace regional				
9	iP	07 15 36 I Distant				-							iP	07 15 39.5 I Distant				
9	iP iP eS	10 18 34 40 19 24 II Regional											i iP eS	10 18 44 18 52.5 19 36 I Regional				
9	iP iP	10 42 16 28.5 I Distant						NO TIME CONTROL					iP i	10 42 19 27 I Distant				
9	iP	20 08 04 I Distant											iP	20 08 08 I Distant				-
9-10		4 Traces distant (Alaska Swarm?)												4 Traces distant (Alaska Swarm?)				
10	iP	23 01 17 I Distant											iP	23 01 20 I Distant				
10-11		2 Traces distant - 1 Trace local - 5 miles												2 Traces distant				
11	eP	01 04 34.5 I Distant											eP	01 04 38 I Distant				
11	e eP eZ eE	02 06 01 19 09 31 10 22 Coda 17	(Beginning Indefinite)										e eZ	02 06 07 10 13 coda 20 I Distant	(Beginning indefinite)			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **April** 1946 12

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
11	iP	09 11.0		+	+	-												
		I Local 5 miles KMK																
11	e	13 33 43											e	13 33 51				
	eP	48.5											eP	33 58				
		I Distant												I Distant				
11	iP	14 16 04.1		- ?		-	iPE	14 16 13					i	14 16 12				
	iEN	05.4					iSE	19					i	13				
	e	06.9						no Δt					iS	19				
	iN	07.8																
	iZE	08.3																
		I Local						I Local						I Local				
11	eP	23 09 21											iP	23 09 24.5				
	iP	32											iP	35.5				
		I Distant						NO						I Distant				
11	eP	23 36 25.5						TIME					eP	23 36 38				
	eS	37 01											eS	37 21.5				
		Trace Regional						CONTROL						Trace Regional				
12	i	00 11.8																
		I Local - 4 miles																
12	iP	10 35 14.5											iP	10 35 25.5				
	iP	21.5											iP	32.5				
	e	47											e	44				
	eS	56											eS	36 20				
		I Regional												I Regional				
12	iP	11 38 48.5											iP	11 38 52				
		Trace Distant												Trace Distant				
12	iP	14 49 38.5			+								iP	14 49 41				
		I Distant												I Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 6 194 13

Time used is G.C.T.

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
12	eP	20 03 26				
	eS	04 01				
	Trace Regional					
13	eP	00 01 06				
	eS	42.5				
	Trace Regional					
13	e	01 37 15				
	Trace Distant					
13	e	04 10 54				
	Trace Distant					
13	e	05 26 32				
	Trace Distant					
13	e	06 58 06				
	Trace Distant					
13	iP	08 14 56				
	Trace Distant					
13	iP	14 40 40				
	i	41 09.5				
	I Regional					
13	eP	14 47 39.5				
	iP	45.5				
	e	48 16.5				
	eS	22				
	I Regional					
13	e	14 49 44.5				
	eP	48				
	eS	50 23				
	Trace Regional					
OVERTON						
	ePE	20 03 35				
	eSE	04 15				
	Trace Regional					
	ePE	00 01 17				
	eSE	02 03				
	Trace Regional					
	eE	01 37 36				
	Trace Distant					
	eE	04 10 58				
	Trace Distant					
	eE	05 26 34				
	Trace Distant					
	eE	06 58 12				
	Trace Distant					
	ePE	08 14 55				
	Trace Distant					
	ePE	14 41 00				
	iE	41 30				
	I Regional					
PIERCE FERRY						
	iP	20 03 38.5				
	eS	04 24				
	Trace Regional					
	eP	00 01 10				
	iP	18				
	eS	02 03				
	Trace Regional					
	e	01 37 20				
	Trace Distant					
	e	04 10 58				
	Trace Distant					
	iP	05 26 36.5				
	Trace Distant					
	eP	06 58 10				
	Trace Distant					
	iP	08 15 04.5				
	I Distant					
	i	14 40 42				
	iP	48				
	iS	41 23				
	I Regional					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946 14

Time used is G.C.T.

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	iP	19 09 34.1		-?	+	+	ePE	19 09 29					iP	19 09 37.5		?	?	+
	ipP	35.6											ipP	10 39				
	eS	19 16											eSN	19 24				
	eSE	30											eSE?	19 26				
	esS	21 04																
	I Distant 80° Compression from SE						I Distant							I Distant				
14	e	04 32 05					ePE	04 32 05					e	04 32 08				
	I Distant							I Distant						I Distant				
14	eP	10 40 43					ePE	10 40 47					eP	10 40 47				
	Trace Distant							Trace Distant						Trace Distant				
14	iP	12 54.7																
	I Local - 5 miles																	
15	eP	01 59 07.6					ePE	01 59 13.9					eP	01 59 15.7				
	iP	14.1					iPE	16.9					iP	19.3				
	eS	37.5					eSE	02 00 06.9					eS	28				
	eS	45.5																
	I Regional						I Regional						I Regional					
15													iP	04 43 30				
													iS	31				
													I Local - 5 miles					
15	iP	07 13 30			+		ePE	07 13 30					iP	07 13 34				+
	I Distant							I Distant						I Distant				
15	iP	07 48.7																
	I Local - 5 miles																	
15	iP	08 03.8																
	Trace local - 5 miles																	
16	iP	02 29 01			+		iPE	02 29 17.5					iP	02 29 09				
	iP	02.8					iSE	29 51.5					iP	11				
	iS	30.7											iS	49				
	Trace Regional 160 miles						Trace Regional						I Regional 200 miles					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
16	iP	10	37	49.3				
	iP			53.2				
	iP			56				
	eS		38	26				
	I Regional							
16	iP	11	57	04				+
	I Distant							
16	e	13	49	28.4				
	i			46.5				
	Trace Distant							
16	iP	22	56	53				
	iP		57	56.7				
	eS		58	33				
	Trace Regional							
16-17	2 Traces local - 3 to 10 miles							
17	iP	06	41	28.7		+		-
	i			30.5				
	iS			31				
	I Local							
17	eP	11	23	59				
	Trace Distant							
17	eP	14	13	38.1				
	Trace Distant							
17								
17	iP	21	27	54				
	iP			59				
	Trace Distant							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iPE	10	37	58				
iPE		38	01				
eSE			47				
I Regional							
ePE	11	57	02				
I Distant							
eE	13	49	32				
i			50				
Trace Distant							
iPE	22	57	06.5				
Trace Regional							
iE	06	41	44.2				
Tiny trace local							
eE	11	24	06				
Trace Distant							
ePE	14	13	59				
Trace Distant							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	10	37	58.8				
iP		38	04				
iP			24				
eS			50				
I Regional							
iP	11	57	02				+
I Distant							
iP	13	49	27				
i			45.5				
Trace Distant							
iP	22	57	00				
iP			09				
eS		57	54				
Trace Regional							
i	06	41	38.1				
iS			43.6				
Trace local							
iP	11	24	02.5				
Trace Distant							
eP	14	14	26				
I Distant							
iP	16	03	35				
Trace Distant							
iP	21	27	57				
iP		28	02				
Trace Distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF 5 April 1946

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
17-18		2 Traces local										
18	iP	07 14 22.5			ePE	07 14 30.5			eP	07 14 26		
		I Distant				I Distant				I Distant		
18	iP	11 47 05			iPE	11 47 09			iP	11 47 03.5		+
									iP	06		
		I Distant				I Distant				I Distant		
18									iP	18 04 12		
										Trace Distant		
19	iP	09 46 28.8		-	iPE	09 46 53.2			iP	09 46 37		
	iS	47 01.5			iSK	22.2			iS	47 29		
		Trace Regional				Trace Regional				Trace Regional		
19	iP	12 11 40.5			ePE	12 11 39			iP	12 11 43		
		I Distant				Trace Distant				Trace Distant		
19	iP	21 54 04.5										
	iS	05.5										
		Trace Local										
13 20	o	17 16 27.0			iP	17 16 37.8			iP	17 16 38.3		+10 + +
	iP	17 16 29.3		+49 -9 -	iZ	40.6			iP	38.9		
	iS	30.8		610 810	iS	45.2			iP	39.5		
									i	42.0		
									eSZ	45.9		
									iSkN	46.4		
		Epicenter 1½ miles NE of Boulder Dam at entrance to Black Canyon										
		III Local - 8.3 miles East				III Local - 38 miles				III Local - 40.7 miles West		
21	iP	04 58 20.5			ePE	04 58 22			iP	04 58 24		
		Trace Distant				Trace Distant				Trace Distant		
21-22		2 Traces local - 5 miles								(20-21) 5 traces distant		
22									iP	03 27 31		
									iS	32		
										II Local 5 miles		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946

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
22	e	07 13 58										
		Trace Distant										
22									1P	12 22 29		
									1S	54		
										I Regional		
22	1P	12 52 15										
	eS	32										
	1S	36										
		I Regional										
21-22										3 Traces distant		
22									1P	22 02 08.2		
									1S	09.2		
										Trace local		
23					ePE	01 03 05			1P	01 03 02		
						Trace Distant				Trace Distant		
23									1P	03 10 33.5		
									1S	34.7		
										I Local		
23	eP	05 15 01.5			ePE	05 14 56			eP	05 15 01		
		I Distant				I Distant				I Distant		
23	eP?	05 26 44			ePE	05 27 52			eP?	05 26 42		
		I Distant - may be part of earlier shock				I Distant				I Distant		
23	iP	07 12 22.4			iPE	07 12 32			iP	07 12 32		
	iP	28.5			iPE	41			iP	41		
	eS	13 04.7			iSE	19			eS	13 24		
		I Regional				I Regional				I Regional		
23	iP	10 51 39			iPE	10 51 45			iP	10 51 43		
	iP	11 01 40.4			eSE	11 01 15			iP	53		
	eS	18							eS	11 01 29		
		I Distant 75°				I Distant				I Distant		

International Seismological Centre
M-10734

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF 194

Time used is G.C.T.

		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	
	23	eP	17 39 09.5						ePE	17 39 13						eP	17 39 12					
			I Distant							I Distant							I Distant					
	24	eP	03 56 41						ePE	03 56 46						eP	03 56 37					
			I Distant							I Distant							I Distant					
14	24	iP	04 07 07.8		-5	-	+		eP	04 07 05.6						o	04 06 56;3					
		i	14.6						iPE	06.1						iP	04 06 58.6		-500	+160	+?	
		iS	15.9						iS	12.1						iS?	07 00.2					
		i	20.9						iS	13.8												
			I Local 43.2	miles	ENE					34.3 miles							III Local 10	miles	WNW			
			epicenter 5.7	miles	WNW	Pierce			Ferry in North end Gregg Basin h= 8							miles						
	24	iP	07 46 49.5						iPE	07 46 53.2						iP	07 46 58					
		iP	46 54.5						iPE	47 02.7						iP	47 07					
		eS	47 29.0						eSE	39.2						iS	49.5					
		iS	47 34.0																			
			I Regional							I Regional							I Regional					
	24	eP	11 27 13						ePE	11 27 12						eP	11 27 09					
			I Distant							I Distant							I Distant					
	25	e	00 58 33.5						e	00 58 50						iP	00 58 50					
		e	00 58 47.5																			
			Trace Distant							Trace Distant							I Distant					
	25	i	01 20 11.5						i	01 20 11.5						iP	01 20 14.5				+	
			Trace Distant							Trace Distant							Trace Distant					
	25	e?	21 52 20						e?	21 52 20						e?	21 52 18					
		e	28						i	53 48						i	45					
		i	53 50																			
		i	54 52																			
			Trace Distant							Trace Distant							Trace Distant					
	26	iP	08 19 24.3		+	-	+24		iPE	08 19 24.5						iP	08 19 26.5		?	?	+	
		epP?	21 23.2						epP?	21 29						epP?	21 26					
		i	27 38.0						iSE	27 38						iS	27 43					
			II Distant							II Distant							II Distant					

International Seismological Centre
M-1073

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF April 1946 — 19

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
26								
27	iP	00	19	34				
	iP			47				
	I Distant							
27	iP	02	19	20.1				
	iP			30.4				
	eS		20	18.4				
	II Regional							
27	iP	09	49	59.8		+	+6	-
	iS			60.8				
	I Local 5 miles NE							
27	iP	17	08	29.2				
	eS			57.2				
	I Regional							
27	iP	21	00	44.5		+30	+68	-131
	iS			46.0		260		240
	II Local							
27	iP	22	38	06				
	iP			11.5				
	i			37.5				
	eS			45.5				
	I Regional							
28	iP	03	56	11.1				
	iP			21				
	i			40.4				
	iS			52.1				
	I Regional							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iPE	00	19	37				
iPE			47				
I Distant							
iPE	02	19	16.8				
iPE			39.8				
eS?		20	21.8				
II Regional							
ePE	17	08	31				
eS		09	18				
I Regional							
ePE?	21	00	55.8				
Trace local							
iPE	22	38	14.7				
iP			20.7				
eS		38	59.7				
I Regional							
iPE	03	56	22.5				
iS		57	13.5				
I Regional							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	14	15	53.5				
iS		16	15				
I Regional							
eP	00	19	36.5				
iP			48.5				
I Distant							
iP	02	19	26				
iP			34.5				
eS		20	29				
II Regional							
i	09	50	10				
Tiny trace local							
iP	17	08	31				
eS		09	11				
I Regional							
i	21	00	54.5				
iS		01	04.5				
Trace local							
iP	22	38	15.1				
iP			23.6				
eS		39	07.6				
I Regional							
iP	03	56	20				
iP			32				
i			59				
eS		57	08				
I Regional							

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 1946

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
28	iP	17 31 58.5		?	-10	-	iPE	17 32 08.8					iP	17 32 04.1				-
	iP	32 03					iPE	14.8					iP	32 09.6				
	iS	25					iSE	47.8					eS	32 30.6				
	iS	32 31																
		II Regional						II Regional						II Regional				
29	iP	00 53.1		+	-20	+												
		I Local 5 miles NNW																
29	iP?	13 48 35.5					ePE	13 48 37					iP	13 48 39				
		Trace Distant						I Distant						Trace Distant				
				+3														
29	iP	15 26 46.5		-12	+115	-220							iP	15 26 56.5				
	iS	48.0			270	300							iS	27 06.5				
		II Local												I Local				
30	eP	02 22 24											eP	02 22 20				
	iP	39.5											iP	34				
		Trace Distant												Trace Distant				
30	eP	04 50.8					eP	04 50.9					i	04 50.9				
		Trace local - 15 miles						Trace local						Trace local				
30	iP	05 09 34.4					ePE	05 09 47					eP	05 09 35.7				
	eS	10 02.9					eS	10 21					eS	10 18.7				
		I Regional						I Regional						I Regional				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . MAY 1946

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on a routine schedule throughout May 1946. Heavy ground disturbance due to local traffic in the vicinity of the Overton station obscured some of the earthquake recordings during the last ten days of the month.

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 be classified as distant.

No shocks were reported felt in the Lake Mead region during May.

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 May 1946

Time used is

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	iP	07 38 25																
	eS	54																
		Trace Regional																
1	iP	17 29 27.5					iPE	17 29 31.5					iP	17 29 31				+
	iP	37											i	35				
		I Distant						Trace Distant						Trace Distant				
				+														
1	iP	17 31 01		-62	+48	-	iPE	17 31 01.5					iP	17 31 03.6				
	m					380	iPE	31 03.5					iP	31 10.6				
	i	31 19.5					eS	31 40.5					eS	31 38.1				
	eS	36.5																
		II Regional						II Regional						II Regional				
1	i	19 45.7					iPE	19 44 22.7					iP	19 45 22.0				
													iS	38.2				
		Trace Local (10? miles)						I Local						I Local				
1	iP	20 17 41.5																
	iS	43.5																
		I Local 10 miles																
2	e	01 27 38.4					eE	01 27 46.2					eP	01 27 48				
	eP	40.2					ePE	51.2					e	28 10				
	eP	45.7					iE	28 01.2					eS	36 04				
	i	28 22.7					iE	28 01.2										
	e	49																
	i	29 12.5																
		I Distant						I Distant						I Distant				
2	iP	05 48 06					ePE	05 48 10					iP	05 48 10.8				
	iP	48 19																
	iS	55.0																
		I Regional						Trace Regional						I Regional				
2	iP	17 52 47.4		+35	+25	-125	iPE	17 52 55					iP	17 52 54.1				
	iZ?	49.8				195	iSE	53 00.5					iS	53 01.1				
	iSE	50.1																
		I Local						I Local						I Local				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1946

Time used is

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
3	i	09 42.1				
		Trace Local 8? miles				
3	iP	22 13 58				
	i	14 11				
	i	39				
	i	17 41				
	e	20 55				
		I Distant				
3	iP?	22 34 16.5				
	eP	37 02				
	iNE	34				
	i	41 16				
	e	47 47				
	Coda		16			
		II Distant				
4	eP	23 53 49				
	eS	54 25				
		Trace Regional				
5	eP	08 18 44.4				
	iP	46.1				
	eS	19 20				
		Trace Regional				
5	iP	09 04 26		+	+	
	iP	32				
	i	59				
	iS	05 08				
		I Regional				
5	e	09 09 40				
		Trace distant				

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON						
	ePE	22 14 07				
	iE	14 43				
	iE	18 02				
		I Distant				
	ePE?	22 34 41				
	eE	37 37 18				
	e	37 39				
		I Distant				
		C.G.S. 9°S, 153°E, (Southeast of New Guinea) 0h22m23.4				
		Δ = 6740 miles				
	ePE	23 53 47				
	iSE	54 15				
		I Regional				
	ePE	08 18 53.7				
	eSE	19 30.7				
		Trace Regional				
	iPE	09 04 34.5				
	iPE	40.5				
	iSE	05 25.5				
		I Regional				
	eE	09 09 45.5				
		Trace Distant				

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY						
	iP	22 14 01				
	i	14 42				
	i	17 46				
	e	21 26				
		I Distant				
	iP	22 34 20				
	eP	37 09				
	e	37 37				
	eS	47 54				
		I Distant				
	eP	23 53 51				
	eS	54 30.5				
		I Regional				
	eP	08 18 58.5				
	eS	19 37				
		Trace Regional				
	iP	09 04 35				
	iP	44.5				
	iS	05 30				
		I Regional				
	e	09 09 43				
		Trace 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 May 196

Time used is

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
5						
6	i	01 09 40.5				
	e	58.5				
		Trace Regional ?				
6	e	02 30 27.5				
	e	32 08				
		Trace Regional				
6	e	11 01 50.5				
	e	11 01 56.5				
		Trace Regional?				
7	eP	04 54 50				
	e	57 19				
		I Distant				
8	e	05 39 26				
	eP	39				
	e	43 11				
		I Distant				
8	eP	09 59 18				
	eS	10 02 58				
	eS	03 26				
		I Distant				
8	iP	12 58 20				
	iP	13 40 50				
		I Distant				
8	e	18 40 53.5				
	eS	41 20				
		Trace Regional				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iE	01 09 54.8				
eE	10 21.8				
	Trace Regional				
iE	02 30 44.6				
iE	31 51.6				
	I Regional				
ePE	11 01 05.2				
eE	02 45.2				
	Trace Regional				
ePE	04 54 50				
	I Distant				
eN	05 39 34				
e	43 20				
	I Distant				
eN	09 59 21				
	Trace Distant				
eN	12 58 19				
	Trace Distant				
ePE	18 41 06				
eS	41				
	Trace Regional				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	13 00 26.5				
iS	27.6				
	Trace Local				
iP	01 09 50.6				
e	10 15.6				
	Trace Regional				
e	02 30 34.1				
e	31 59.1				
	Trace Regional				
e	11 02 09.3				
e	02 52.8				
	Trace Regional?				
eP	04 54 56				
	Trace Distant				
eP	05 39 39				
e	43 22				
	I Distant				
eP	09 59 24				
eS	10 03 33				
	I Distant				
iP	12 58 23				
	I Distant				
e	18 40 57.2				
e	41 03.2				
eS	41 42.4				
	Trace Regional				

C.G.S. 1° 98°E S/P = 5:20.3 Δ = 136° or 9385 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 May 1946

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
8	iP	19 26 02				-	eE	19 26 04					iP	19 26 05.2				
	iP	24																
	I Distant						Trace Distant						I Distant					
9	iP	00 14 44				-	iPE	00 15 03.8					iP	00 14 51.5				
	iP	50.5					eS	45.8					iP	15 01.5				
	eS	15 28											eS	15 43.5				
	I Regional						I Regional						I Regional					
9	iP	21 30 11.5																
9	iP	23 37 51		-	+	-	iPE	23 37 55					iP	23 37 49				
	i	38 18					iE	14					i	38 21				
	eZ	41.4					iE	48					iE	42 25				
	i	42 16					iE	42 18										
	e	44 03																
	i	48 56																
	Coda		6.5				Coda		6.5				Coda		6.0			
	II Distant						II Distant						II Distant					
	C.G.S. 22°N, 108°W, O = 23:34.4 Δ = 1030 miles																	
10	iP	23 43 38.5					iPE	23 43 42.5					iP	23 44 06				
	eP	44 01.5					eE	44 04					e	44 30				
	Trace Distant						Trace Distant						Trace Distant					
NS dragging 11	iP	13 22 24.9		-19		-55	iE	13 22 32.1										
	iS	25.8																
	i	26.1																
	II Local 4.5 miles						Trace Local											
11	iP	16 36 22.5				+6	eE	16 36 20					iP	16 36 21				
	I Distant						Trace Distant						I Distant					
11	eP	17 29 06.5					iN	17 29 09					iP	17 29 11				
	e	28.5											e	22				
	i	30 39																
	I Distant						Trace Distant						I Distant					

International Seismological Centre
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Bureau of Reclamation, National Park Service and Coast and Geodetic Survey

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
11	iP	18	50	19.5				+	iPN	18	50	17					iP	18	50	18				+
	iP			34.5					eN			37					i			29				
	e		52	39													e		52	38				
	I Distant								I Distant								I Distant							
11	iP	21	46	06			+	+									eP	21	46	10.8				
	i			14													iS			26.8				
	iS			19																				
	Trace Local Blast Davis Dam?																Trace Local							
12	iP	02	47	30				+	iPN	02	47	34.5					eP	02	47	42				
	iS		47	59					iSN		48	19.5					eS		48	13				
	iS			03.5																				
	I Regional								I Regional								I Regional							
12	iP	13	30	58				#	ePN	13	30	56					iP	13	30	55				
	i		33	38																				
	e			11																				
	I Distant								Trace Distant								I Distant							
12	iP	18	19	51				-	iE	18	20	00.6					iP	18	19	58.6				
	iP		19	58					iPE			10.6					iP			08.6				
	iS		20	35					iSE		20	53.6					iS			54.6				
	I Regional								I Regional								I Regional							
13	iP	01	17	43					iPN	01	17	51.9					i	01	17	53				
	iP	01	17	45				+	iSN			30.4					iP			57.5				
	iS		18	18.5													iS		18	40				
	I Regional								I Regional								I Regional							
13	iP	01	19	20.5					iPN	01	19	14.4					iP	01	19	33				
	iP	01	19	22					iSN		20	07.4					iS		20	16				
	iS			55																				
	iS		19	58																				
	I Regional								I Regional								I Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF May 1946 — 6

Time used is

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
13	iP?	01	26	57				-
	iP		26	58				
	iS		27	00				
	iS			34				
	I Regional							
13	iP	06	30	20				*
	iS		41	27				
	I Distant							
14	iP	00	29	31				+
	iP			34				
	eS		30	14				
	I Regional							
14	iP	02	35	27				-
	iP			29				
	i			47				
	eS		36	08				
	I Regional							
14	iP	06	10	18.5				-
	iP			42.5				
	i		12	44.5				
	i		16	21.5				-
	I Distant							
14	iP	11	48.8					
	I Local - 5 miles							
NS dragging	iP	07	12.5			-10		+
	I Local - 10 miles							

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
13	iPN	06	30	19				
	eSN		41	15				
	Trace Distant							
14	iPE	00	29	32.5				
	iE			37.5				
	eSE		30	18.5				
	I Regional							
14	iPE	02	35	32.5				
	eSE		36	14.5				
	I Regional							
14	iPE	06	10	16				
	i		10	44				
	I Distant							
14	iE	11	48.6					
	Trace Local							
NS dragging	iE	07	12.7					
	Trace Local							

No. / Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
13	iP	01	27	10				
	iS			52				
	I Regional							
13	iP	06	30	22.5				-
	iS		41	25				
	I Distant							
14	iP	00	29	39				
	iP			42				
	eS		30	31				
	I Regional							
14	eP	02	35	36				
	eS		36	23				
	I Regional							
14	iP	06	10	20				
	i			46				
	I Distant							
14	iP	11	49	03.4				
	Trace Local							
NS dragging	eP	07	12	37.5				
	Trace Local							

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LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
15	BOULDER CITY	iP	22	16	11			+	+
		iP			11.5		+	-	-22
		iPE			39				
		e		20	43				
		eZ	22	24	04				
		eS?			22				
Probably 2nd Shock		iP	22	29	54		-	+	-31
		iE			56				
		e		35	00				
		e		38	00				
		II Distant Compression from SE							
	OVERTON	iPE	22	16	16.5				
		eSE	22	24	31.5				
		iPE	22	29	56.5				
		eE	22	38	16.5				
		II Distant C.G.S. 16°N, 96°W, (Off Coast of Southern Mexico) Δ=1865 miles							
	PIERCE FERRY	iP	22	16	07		-	+	+19
		i			36				
		i			52				
		eZ		24	05				
		eS?		24	27				
		iP	22	29	51				
		e		31	31				
		eS		37	51				
		e		38	50				
		II Distant O=22:10.6							
16 16	BOULDER CITY	iP	05	38	27				+100
		iPE			27.5				
		i			46.5				
		i		42	03				
		e		49	00				
		II Distant							
	OVERTON	iPE	05	38	29.5				
		iE		38	50				
		eE	05	49	02				
		II Distant							
	PIERCE FERRY	iP	05	38	30.5		+12	+6	+112
		i			42				
		i		42	08				
		eS		49	05				
		II Distant							
17	BOULDER CITY	eP	22	13	40				+
		e			50				
		e		14	40				
		Trace Distant							
	OVERTON	eE?	22	13	49				
		Trace Distant							
	PIERCE FERRY	i	22	13	46				
		i			56				
		e		14	46				
		Trace Distant							
18	BOULDER CITY	i	03	56	09				+
		iPEZ			12.5		+		+
		iP			23.5				
		eS			53				
		iS			60				
		II Regional							
	OVERTON	iE	03	56	10				+
		iPE		56	17.5				+
		eSE?		56	55				
		II Regional							
	PIERCE FERRY	iP	03	56	13				
		iP			23.7				
		i			39.2				
		iS		57	16.2				
		I Regional							
18	BOULDER CITY	iP	06	46	33				+
		iP			36				+
		eS		47	17				
		I Regional							
	OVERTON	iPE	06	46	34.9				
		iPE			37.9				
		eS		47	22.9				
		I Regional							
	PIERCE FERRY	iP	06	46	33.5				
		iP			44.0				
		eS		47	33.5				
		I Regional							

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Time used is

	No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	18	iP	07	52	33				+
		iP			36				+
		iP			44				
		i		53	09				
		iS			19.6				
		iSE			38.5		+		
		I Regional							
	18	iP	23	04	39.4				
		e			51.5				
		iS			53				
					02				
		Blast? Davis Dam							
W	19	iP	00	40	58		+	-?	+19
		iP		41	21.5				
		iS		48	48		-	-	
		I Distant							
	19	eP	17	46	43				
		eP		47	20				
		I Distant							
	19	e	22	04	42.5				-
		iP			45.5				
		i			57				
		I Regional							
	20	iP	06	11	18.5				
		e	06	11	37.5				
		eS	06	12	42.5				
		i			47.5				
		i			57.5				
		I Regional							
W	20	iP	14	20	12				+
		eS	14	28	24				
		I Distant							

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	iPE	07	52	35.8				
	iSE		53	18.8				
	I Regional							
	iPE	00	40	59				
	iE		41	33				
	eSE		48	47				
	I Distant							
	ePE	17	46	47				
	ePE		47	26				
	I Distant							
	iE	22	04	48				
	iE		04	49				
	iSE		06	11				
	Trace Regional							
	iE	06	11	29.8				
	eS		12	29.8				
	I Regional							

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	eP	07	52	41.5				
	eS		53	36.5				
	I Regional							
	i	23	04	42				
	Blast? Davis Dam							
	iP	00	41	01		+	-	+31
	iP		41	07				
	eS		48	52				
	I Distant							
	eP	17	46	45.5				
	eP			51				
	e		47	24				
	I Distant							
	e	22	04	48.5				
	i			58.5				
	I Regional							
	i	06	11	14				
	i			36				
	i		12	44				
	I Regional							
	iP	14	20	09.5				
	eS		28	20				
	I Distant							

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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
	20	i	22 04 24							iP	22 04 26		
		i	50										
		Trace Distant									Trace Distant		
	20									iP	05 33 37.2		
										iS	38.4		
										I Local			
	21	iP	08 38 47		-					eP	08 38 39		
		Trace Distant									Trace Distant		
W	21	iP	09 25 59		-35 + +112	iPE	09 25 57.8			iP	09 25 53		-88 +19+250
		i	26 27			eE	30 00			e	26 40		
		e	51.5			eE	33 22			eS?	33 16		
		e	31 25							eS	35 41		
		iS	33 25										
		e	45										
		e	35 44.5										
		e	36 10.0										
		II Distant					II Distant				II Distant		
					Compression from ESE		C.G.S. 14.2°N; 60.8°W (Damage on Martinique, West Indies)						
					Δ=53°		O= 9:16.6 Δ= 3600 miles						
	21	iP	12 32 20										
		I Local											
	21	iP	12 40 33.5			iPE	12 40 25.4			iP	12 40 19.7		
		iP	36			iSE	40 50.9			iP	40 21.2		
		i	55.5							iS	44.7		
		iS	41 07										
		iS	13										
		I Regional					I Regional				I Regional		
	21	iP	16 28 57			iPE	16 29 09.8			iP	16 28 42.2		
		iS	29 28			iSE	29 41.8			iS	29 06.2		
		I Regional					I Regional				I Regional		

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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
22	iP	11	39	41.6				-12	iPE	11	39	45.5					iP	11	39	48.7				
	iP			44.8					iPE		39	54.5					iP		39	57.2				
	iP			55.8					iS		40	15.5					iS		40	22.2				
	iS		40	13.3						I Regional								I Regional						
	II Regional 170 miles																							
22	eP	12	13	09																				
	iP			22				+																
	Trace Distant																							
22	eP	12	30	18.5					ePE	12	30	29												
	iP			32						Trace Distant														
	Trace Distant																iP	13	05	17.2				
22	iP	13	05	09				-6	iPE	13	05	16.4					iS			26.2				
	iP			24.5					iPE		05	23.4						I Local						
	iS			41					iSE		05	33.9												
	I Local									I Local														
22	iP	14	08	56				-100	iPE	14	09	01.2					iP	14	09	03.2				
	iS		09	05					iSE		09	21.2					iS			12.2				
	III Local									II Local								II Local						
22	eP	14	11	49				+	iPE	14	12	03.2					eP	14	12	12.4				
	iP			59.5					iPE		12	18.2					iP			15.4				
	iP		12	06						I Local							iS			25.4				
	I Local																	I Local						
22	iP	14	13	18.5				-									iP	14	13	26.4				
	iS			32.5						TRAIN							iS			34.9				
	I Local																	I Local						
22	iP	14	16	19.4				-		TRAFFIC							i	14	16	35.4				
	iP			22.3						POOR														
	iS			33.8						RECORDING								Trace Local						
	I Local																							
22	eP	14	17	27						OUTSIDE							iP	14	17	41.4				
	iP			45													iS		18	02.4				
	i			57						TRAFFIC														
	I Local																	I Local						

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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
22	iP	14 19 01				+		TRAIN					iP	14 19 04.4				
	iP	19 05											iS	15.4				
	iS	19 15						TRAFFIC						I Local				
	I Local																	
								POOR					iP	14 35 47.4				
22	iP	14 35 40				-							iS	35 55.9				
	iP	43						RECORDING										
	iS	54.3												I Local				
	I Local																	
22	iP	14 57.6				+												
	Trace Local 13 miles																	
													iP	14 58 52.4				
22	iP	14 58 44.4				-							iS	59 00.4				
	iS	47.2																
	i	59.3																
	e	59 08.8												I Local				
	I Local																	
22	iP	15 00 32.5		+		+	iE	15 00 38.2					iP	15 00 40.4				
	iS	35.3											iS	00 48.4				
	i	47.8						I Local						I Local				
	II Local																	
22	iP	15 04 41.5				+19	iE	15 04 45.2					iP	15 04 48.4				
	iS	44.5											iS	04 57.4				
	iS	56.5												I Local				
	I Local																	
22	iP	15 11 18.5				-		POOR										
	iP	31																
	I Local							RECORDING										
													iP	15 36 58				
22	iP	15 36 49.5				-							iS	37 07.0				
	iP	54																
	iP	37 05												I Local				
	II Local																	

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Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
22	iP	17	28	29				+
	i			31				
	i			43.5				
	i			50				
	II Local							
22	iP	17	54	00				-
	i		54	05				
	i			13.5				
	iS			20				
	i		55	11				
	I Local							
22	iP	18	10	03				+
	i		10	06				
	iS		10	19				
	i		10	57				
	I Local							
22	iP	18	57	13				
	iP			15.5				
	iP			27				
	iP			43				
	iS		58	27				
	I Local							
23	eP	01	41	54				-
	eP		42	19				
	e		45	45				
	I Distant							
23								
23	iP	22	47	51				-
	iP			54				
	i			58				
	I Regional or Local							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iPE	17	28	37				
i		29	24				
Poor recording due to train traffic							
I Local							
iPE?	17	54	15				
Poor recordings train traffic							
I Local							
iPE?	18	57	22				
iPE		57	29				
Poor recordings Train traffic							
I Local							
ePE	01	42	31				
ePE		42	38				
I Distant							
ePE	11	54	26				
Trace Distant							
iE	22	47	58 48.8				
iE		48	04.8				
Trace Regional or Local							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	17	28	33.0				
iP		28	35.0				
eS		28	43.5				
II Local							
iP	17	54	08				
iS			16				
I Local							
iP	18	10	18.6				
iS			20.6				
I Local							
iP	18	57	19.6				
iS			28.6				
I Local							
eP	01	42	08				
eP			18				
e		42	51				
I Distant							
iP	11	54	26				
e			37				
Trace Distant							
i	22	47	48.4				
iS		48	08.4				
I Regional or Local							

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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
24	iP	02 43 00			iE	02 43 11.6			iP	02 43 11.8		
	iS	06.9							iS	26.8		
	iS	07.7										
	Trace Local				Trace Local				Trace Local			
24	iP	06 20 14		-	iPE	06 20 22.5			iP	06 20 27		
	iP	20			iSE?	59.5			iS	21 09		
	eS	47										
	Trace Regional				Trace Regional				Trace Regional			
24	eP	06 45 57		+	eE	06 45 59.5			iP	06 45 57		
	Trace Distant								Trace Distant			
24	iP	09 40 40.1		-138	iPE	09 40 40.6			iP	09 40 47		-150
	iP	43.6							iS	40 58		
	iS	56.6							i	41 05		
	iP	41 45.6							i	30		
									i	41 56		
	III Local				II Local				II Local			
24	iP	09 45 08.6		-	ePE	09 45 17.5			eP	09 45 17		
	iP	12.1							eS	24.5		
	iP	28.6										
	I Local				I Local				I Local			
24	iP	09 47 43.4		-	iPE	09 47 49.5			iP	09 47 50.5		
	iP	45.6			iSE				iS	47 59		
	e	48 16.6										
	II Local				I Local				I Local			
24	iP	09 49 41.6		-88	iPE	09 49 47.5			iP	09 49 49		
	iS	56.6			iSE	52.5			iS	49 57.5		
	I Local				I Local				I Local			
24	iP	09 57 22.9		+	iPE	09 57 29.4			iP	09 57 31		
	iS	25.8			iSE	33.4			iS	39		
	I Regional or Local				Trace Regional				Trace Local or Regional			

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BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
24	iP	09	58	58				+
	iP		59	01				
	iP		59	11				
	I Local							
24	iP	10	37	11				
	eP			20				
	eP			24				
	Trace Regional or Local							
24	eP	10	46	42				
	e			55				
	Trace Regional							
24	iP	10	58	46				+
	iP			57				
	iP		59	01				
	I Regional							
24	iP	11	21	53				-
	iP		22	05				
	Trace Regional ?							
24	iP	11	29	07				-38
	i			20				
	i			27				
	I Regional							
24	iP	13	09	34.5				-
	i			39				
	i			50				
	I Regional							
24	iP	20	39	10.5				
	Trace Local or Regional 95 miles							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iPE	09	59	01.4				
iSE		59	09.4				
I Local							
iPE	10	37	11.4				
Trace Regional or Local							
iE	10	46	47.4				
Trace Regional							
iPE	10	58	51.4				
iSE		59	15.4				
I Regional							
iE	11	21	54.3				
Trace Regional							
iPE	11	29	12.3				
iSE			19.3				
I Regional							
iE	13	09	39.2				
I Regional							
POOR RECORDING							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	09	59	05.1				
iS			13.6				
I Local							
i	10	37	15.6				
iS			24.6				
Trace Regional or Local							
e	10	46	56.1				
Trace Regional							
iP	10	58	52.6				
iS		59	01.1				
I Regional							
i	11	22	05.2				
Trace Regional							
iP	11	29	14.2				
iS			22.7				
I Regional							
i	13	09	42.2				
iS		09	50.2				
I Regional							
iP	20	39	18.4				
iP			20.5				
iS			44.8				
Trace Regional							

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	BOULDER CITY						OVERTON						PIERCE FERRY					
No. 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
24	i	22 40 38											i	22 40 46.9				
	i	41						POOR					iS	40 53.9				
		Trace Local or Regional												Trace Local				
								RECORDINGS										
25	iP	01 47 24											eP	01 50 03				
	eS	01 50 02																
	eS	50 12																
		Trace Distant												Trace Distant				
25	eP	06 20 38					ePE	06 20 40					iP	06 20 42.0				
		Trace Distant						Trace Distant						Trace Distant				
25	eP	11 54 40					eE	11 54					iP	11 54 42				
		Trace Distant												Trace Distant				
25	eP	23 46 13.5				-												
		Trace Distant																
26	e	00 31 29											e	00 31 44.4				
	i	31.5																
	i	44.5																
		Trace Local or Regional												Trace Local or Regional				
26	iP	13 29 11				+	iPE	13 29 13					iP	13 29 15				
		Trace Distant						Trace Distant						Trace Distant				
26	iP	17 04.3				-												
		I Local 5 miles																
								LOST										
27	iP	08 45 02				-							iP	08 44 59				
	iP	45 16.5						DUE					i	45 18.2				
		I Distant												Trace Distant				
								TO										
27	iP	23 07 54.8		-	-								iP	23 07 56.6				
	e	08 07.1						OUTSIDE					iS	13.1				
	iS	08 07.3																
		Blast Davis Dam						TRAFFIC						Blast Davis Dam				

Blasts at Davis Dam are mearly a daily occurance. Hereafter they will not be listed except on special occasions.

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	BOULDER CITY							OVERTON							PIERCE FERRY						
ate	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	i	17	15.7																					
	Trace Local - 7 miles																							
29	eP	17	52	33													eP	17	52	39.5				
	i			47													i		53	01.5				
	eS?		53	48													i			16.5				
	iS		54	05													eS		54	40.5				
	Trace Regional																Trace Regional							
29	i	18	02	32													i	18	02	36				
	Trace Distant?																Trace Distant							
29	e	19	42	43.5					eE	19	42	22					e?	19	42	15				
	Trace Distant?								Trace Distant								Trace Distant							
30	e	03	53	43					eE	03	53	42					e	03	53	41				
	Trace Distant								Trace Distant								Trace Distant							
30	e	08	52	42					eE	08	52	50					e	08	52	46				
	Trace Distant								Trace Distant								Trace Distant							
30	iP	17	00	43													iP	17	00	47.5				
	i			57.5													iS		02	03.5				
	iSN		01	44																				
	i		02	07																				
	I Regional																I Regional							
31	iP	02	44	34													iP	02	44	34				
	i			45													i			45				
	Trace Distant?																Trace Distant							
31	eP?	03	26	39					eE	03	26	41					eP	03	26	38				
	e		30	39													eS?		30	46				
	I Distant								Trace Distant								Trace Distant							
31	i	08	48	38					iPE	08	48	48.8					i	08	48	46				
	iP			41.8					iPE		48	50.8					iP	08	48	55				
	iP			42.8					eSE		49	29.8					iS		49	38				
	eS		49	16.5																				
	I Regional								I Regional								I Regional							

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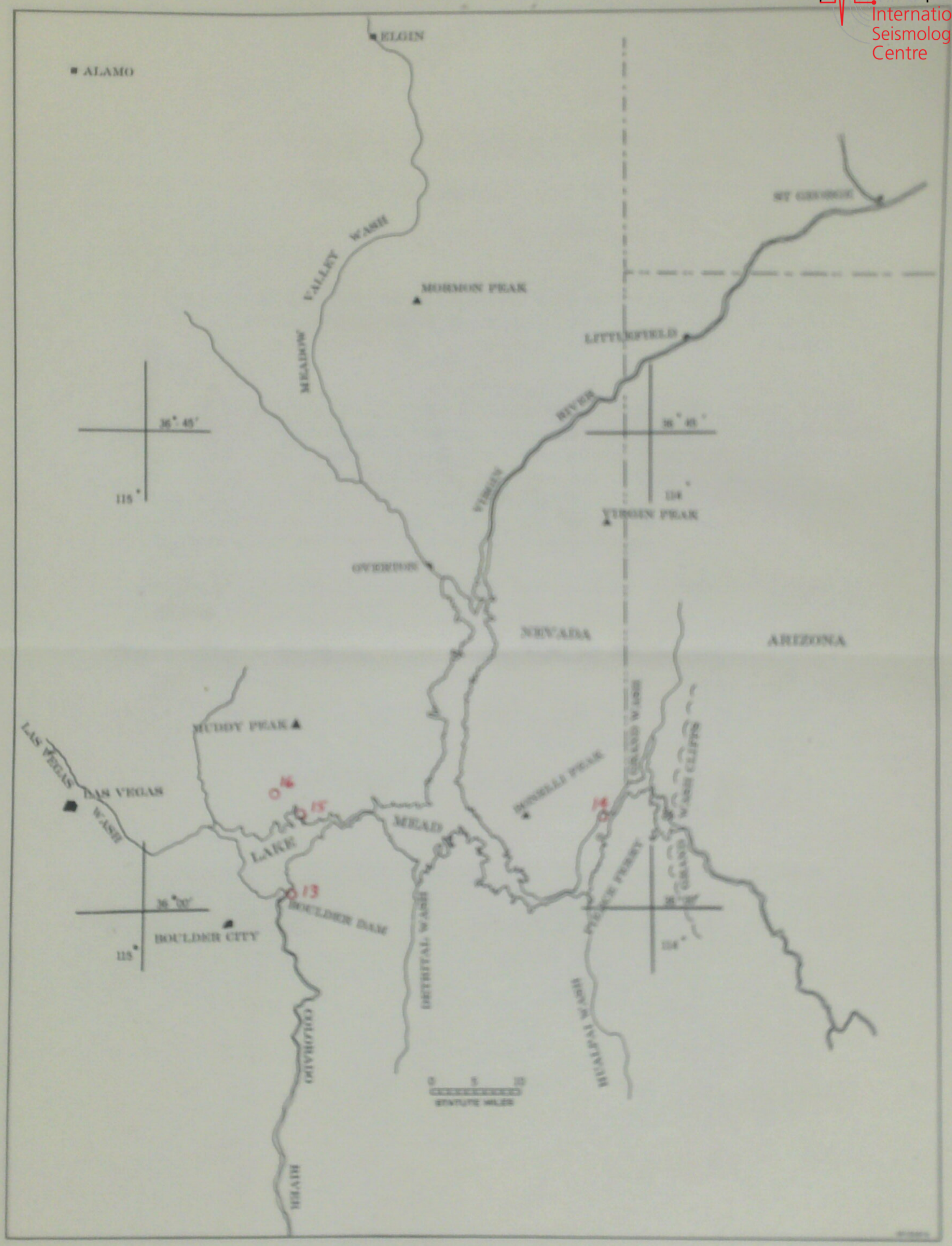

TENTATIVE EPICENTERS IN LAKE MEAD REGION
April - June 1946

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . JUNE 1946

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout June 1946. Due to chronometer failure on June 14 and 15 portions of recordings at Boulder City 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 be classified as distant.

Epicenters were located in the Lake Mead Region as follows:

No.	Date June	G. C. T.	Location of Epicenters
15	7	11:46:10.9	(14) miles NNW of Boulder City vicinity Callville wash
16	11	15:30:12.9	(15) miles NNW Boulder City vicinity Callville wash

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

Date	G. C. T.	Intensity Description
15	11:38	Felt in Boulder City
15	11:21	Felt in Boulder City
15	12:30	Felt in Boulder City

Confidential-not for publication.

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 194 0 1

Time used is

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
1	eP	01	10	33				
	i			42				
	Trace Distant							
1	eP	09	03	59				
	I Distant							
1	iP	11	07	33.5				
	iP			43				
	i		08	26				
	iS			34.5				
	iS			38.5				
	I Regional							
1	e	16	25	23				
	e		29	24				
	Trace Distant							
1	e	20	29	40				
	eP	20	29	43				
	eS		30	16				
	Trace Regional							
3	iP	09	00	08.2		-15		
	iS			10.4				
	iS			10.6				
	I Local							
3	iP	13	52	06				
	iP			11				
	i		57	44				
	eS		58	27				
	I Distant							
4	eP	00	31	32.5				
	iP			34				
	e		32	08				
	eS			13				
	iS			15				
	I Regional							

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
OVERTON								
	eE	09	04	03				
	I Distant							
	iPE	11	07	41.8				
	iSE		08	52.8				
	I Regional							
	eTE	16	25	44				
	eE		25	59				
	Trace Distant							
	eN	20	29	54.5				
	ePN		29	57.5				
	eSN		30	29				
	Trace Regional							
	ePE	13	52	07		-		
	iPE		52	12				
	iE			32				
	eSE		58	29				
	I Distant							
	eP	00	31	47.8				
	i		31	51.3				
	eS		32	30.8				
	i		32	48.8				
	I Regional							

Day	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY								
	eP	09	04	01.5				
	I Distant							
	iP	11	07	42.3				
	iS		08	55.3				
	I Regional							
	e	16	25	28				
	e		29	14				
	Trace Distant							
	e	20	29	52.3				
	eP		29	56.3				
	eS			39.8				
	Trace Regional							
	i	09	00	15.8				
	iS			22.1				
	I Local							
	iP	13	52	10				-
	iP			15				
	i		57	47				
	eS		58	34				
	I Distant							
	iP	00	31	35				
	iP			43				
	iS		32	26.5				
	I Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1946

Time used is

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	e	00	33	07				
	e			49				
		Trace Regional						
4	iP	04	56	30.5		-	-	-25
	i		58	38				
	iS	05	05	54		+	-	
		I Distant						
4	eP	06	38	58				
	eS		39	34				
		Trace Regional						
4	iP	12	06	01.6		-	-12	-15
	i			02.4				
	iP			05.6				
	i			06.0				
	iS			40.6		1500	1700	1560
		III Local						
4	iP	14	48	58.3				
	iP		49	02.8				
	iP			04.6				
	iS			31.8				
	iS			36.3				
		II Local						
4	iP	17	20	24.5				
	iP			26				
	eS		20	53				
		I Regional						
5	eP	01	06	05			+	
	e			57				
	iE		07	24				
	e		09	53				
		I Distant						

OVERTON

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	e?	00	33	58.8				
		Trace Regional						
4	e	04	56	33				
	i		56	58				
		I Distant						
4	iE	06	39	11.6				
	i		39	58.6				
		Trace Regional						
4	iPE	12	06	11.4				
	iE		06	17.4				
		III Local						
4	iPE	14	49	18.4				
	iPE		49	50.4				
		II Local						
5	eN?	01	06	58				
		Trace Distant						

PIERCE FERRY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	e	00	33	27.5				
	e		34	06.5				
		Trace Regional						
4	iP	04	56	34		-	-	-62
	i		58	43				
	iS	05	06	02				
		I Distant						
4	iP	06	39	06.5				
	eS			53.0				
		Trace Regional						
4	iP	12	06	08.0		-	-	-
	iP			13.2				
	i			16.2				
	iS?		06	58.2				
		III Local						
4	iP	14	49	04.4				
	iP			11.6				
	iS			44.4				
		II Local						
4	iP	17	19	56.5				
	iP		20	03.5				
	iS			35.5				
		I Regional						
5	eP	01	06	09				
	e			35				
	i		07	03				
		I Distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1946

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
5	eP	04	22	20.6																				
	eP			22.6																				
	iS		?	33.9																				
	iS			35.3																				
	Trace Local																							
5	iP	09	33	19.2		-?	+20	-35	iE	09	33	37					iP	09	33	39				
	iS			20.6													iS			39.8				
	I Local								Small Trace Local								Trace Local							
5	iP	22	00	18.7				+	ePN	22	00	31.9					iP	22	00	27.7				
	iP			25					iPN	22	00	34.9					iP			37.7				
	iS		01	04.5					iSN		01	12.9					iS		01	20.7				
	II Regional								II Regional								II Regional							
6	eP	00	07	29.4					iPN	00	07	43.9					iP	00	07	41.3				
	iP	00	07	35.4					eSN		08	26.9					iP			45.3				
	eS		08	14.4													iS		08	32.8				
	I Regional								I Regional								I Regional							
6	e	00	41	36					eN	00	41	48					iP	00	41	51				
	eP			47																				
	I Distant								Trace Distant								I Distant							
6	iP	01	13	40.4				+	iPN	01	13	38.4					iP	01	13	33.9				
	iS		14	29.4					iSN		14	24.9					iP			35.9				
																	iS		14	37.9				
	I Regional								I Regional								I Regional							
6	iP	18	17	02.2				+	ePN?	18	16	59.8					iP	18	16	56				
	i			13.2					iSN		17	46.8					iP		17	08				
	iS			52.2													iS		18	02.5				
	I Regional								I Regional								I Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1946 4

Time used is

		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	iP	04	18	49		-	+	+6	ePN	04	18	52					eP	04	18	45		-		
		iP			51		-	+	+	iPN		18	57					iP			47				
		iP		19	10					eN		19	31					i		19	31				
		i			36					eSN?		23	10					eS?		23	32				
		eS?		23	29													eL		27	31				
		e			45																				
		Coda				8.5												Coda				8.5			
		II Distant Compression from SE C.G.S. 17°N, 94°W (Isthmus of Tehuantepec)(Depth slightly greater than 100 KM) O - 4:13.3 Δ - 1825 miles								II Distant								II Distant							
15	7	0	11	46	10.9		-																		
		iP	11	46	14.8		+35	+55	-	iP	11	46	20		-	-		iP	11	46	21.8		+38	+6	+144
		i			17.5					iS		46	24.5					iSE			28.6				
		iS			17.7																				
		III Local Epicenter about 14 miles NNE Boulder City Callville Wash								I Local 30 miles SSW								II Local 39 miles West							
	8	iP	04	21	55.3		-?	+	+									i	04	22.2					
		iS			56.3																				
		iS			56.8																				
		II Local 5 miles																							
	9	iP	04	29.3					+	i	04	29	33					iP	04	29	25.9				
																		iS?			33.6				
																		i			34.4				
		I Local 14 miles								Trace Local								Trace Local							
	9	iP	07	03	26				-	ePE	07	03	24.5					iP	07	03	19				
		i			34							03	27					i			29				
		I Distant								I Distant								I Distant							
	9																	iP	13	35	38				
																		iS			39.8				
																		I Local							
	9									ePE	14	40	52					iP	14	40	30.9				
										iS		41	34					iS		41	19.4				
																		I Regional							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 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
9	e?	17	00	43													e	17	00	37				
	iP	17	01	13													iP		01	04				
	e			17.5																				
	Trace Distant																	Trace Distant						
10																	iP	00	59	01.3				
																	iS		59	02.8				
																	I Local							
10	e	03	05	30					eE	03	05	12.8					i	03	05	22.2				
	e		06	02.5													iS?		06	07.2				
	Trace Regional								Trace Regional								Trace Regional							
10	iP	06	49	00				-	iPE	06	49	05.8					iP	06	48	54				
	iS?			03					iS		49	23.8					iS		49	03				
	iS?			06.1																				
	i			20																				
	i			31																				
	I Regional or Local								I Regional or Local								Trace Local							
10	e	14	04	58		+		+	ePNT	14	05	06.8					i	14	04	52.5				
	iP		05	01.5					eST		05	42.8					iP		05	01.5				
	i			05													eS			47.5				
	eS			37																				
	I Regional								I Regional								I Regional							
11	e	08	03	59					ePK	08	04	00.5					iP	08	04	05				
	Trace Distant								Trace Distant								Trace Distant							
11	iP	09	25	52					iPK	09	25	59.5					iP	09	26	05.5				
	i			54.5					iSK		26	35.5					iS		26	43.5				
	iS		26	22																				
	I Regional								I Regional								I Regional							
	0	15	30	12.9																				
16 11	iP	15	30	17.1		+20	+28	-	iPK	15	30	21.5					iP	15	30	24.9				
	iN			19.7					iSN		30	30.5					iS			31.9				
	iS			20					iSN		30	41.5					iS			33.2				
	i			32																				
	II Local Epicenter about 15 miles NNE Boulder City								I Local 30 miles (?) SSW								I Local 43 miles West							

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 194

Time used is

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	iP	02	01.7					
		I Local - 5 miles						
12	iP	16	21	28.5				+
	i			33.5				
		I Distant						
12	iP	18	01	05				
	i			06.5				
	eS			41				
		I Regional						
12	eP	20	21	24				
	iP			30				
	eS		22	06				
		I Regional						
14	i	01	44.1					
		I Local 7 miles						
14	iP	05	35					
		Trace Distant						
14-15	(In this period times are assumed approximately, due to chronometer failure)							
14		20 to 17	00 00					
		31 Local shocks, traces or I - 6½ miles NE						
14	iP	22	40	00		+115	+180	-375
	i			01.3				
	i			03.1				
		II or III						
14	iP	23	26			+32	+60	-150
		S-P = 1.3 S						
		II Local						

OVERTON

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	ePN	16	21	39				
	iN		21	47				
		I Distant						
12	ePN	18	01	16				
	eS	18	01	51				
		I Regional						
12	iPN	20	21	39				
	iSN		22	22				
		I Regional						

PIERCE FERRY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
12	i	02	01.7					
		Trace Local						
12	iP	16	21	29				
	iP			32				
	i			54				
		I Distant						
12	iP	18	01	08.8				
	i		01	18.3				
	eS		02	01.3				
		I Regional						
12	iP	20	21	34.5				
	iP			44.0				
	eS		22	27				
		I Regional						
14	iP	05	30	39				
	i			45				
		Trace Distant						
14	iP	23	04	43				
	iS			54				
		I Local						

International Seismological Centre

		BOULDER CITY								OVERTON								PIERCE FERRY							
			Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
	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
	15	iP	11	21			+110	+180	-410	ePN	11	15	04					iP	11	14	56.8				
			S - P = 1.3 S.															is		15	05.8				
			III Local Felt in Boulder City								Trace Local								I Local						
F	15	iP	11	38			+170	+300	-680	ePN	11	34	50					iP	11	34	47				
			S - P = 1.3 S.							i?								is			55.3				
			III Local Felt in Boulder City								I Local								I Local						
F	15	iP	12	30			+196	+300	-	iN	12	26	14.9					iP	12	26	12.3				
			S - P = 1.4															is		26	21.6				
			III Local Felt in Boulder City								Trace Local								I Local						
	15	iP	12	35			+8	+18	-45																
			S - P = 1.3																						
			II Local																						
	15																	i?	13	20	14.8				
																		i			49.3				
																			I Regional						
	15																	iP	13	38	06.3				
																		is			24.3				
																			I Regional						
	15									iN?	14	55	32.8					i?	14	55	50.9				
											Trace Regional							is?		56	10.9				
																			I Regional						
	15																	iP	15	14	30.1				
																		is			47.9				
																			I Regional or Local						
	15	iP	19	47	41		+	+	-	ePN	19	47	58.8					iP	19	47	55.1				
		iP			53					i		48	09.8					isZ		48	44.1				
		i			60					isN		49	02.8					isE		49	03.1				
		is		48	43																				
			II Regional								II Regional								II Regional						
	16	e	00	40	39				-	ePN	00	40	51.5					iP	00	40	49.9				
		e			56					eN		41	28					es		42	20.9				
		i		41	17					esN		42	42.5												
		es		42	36																				
			I Regional								I Regional								I Regional						

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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						
	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	i	11	31.3						iN	11	31.6						i	11	31.7					
	Trace Local 15 miles								Trace Local								Trace Local							
17	iP	04	27	07.5					iPE	04	27	08.5												
	iS			29					iSE		27	31												
	i			31																				
	i			35																				
	Trace Regional								I Regional															
17	iP	05	24.9																					
	I Local 6 miles																							
18	eP	10	41	19					ePE	10	41	35					eP	10	41	21.6				
	eS			48					iS		42	08					eS		42	04.6				
	i		42	07																				
	I Regional								I Regional								I Regional							
19	iP	00	33	59					- ePN	00	34	04					iP	00	33	59				
																	i		34	07				
	I Distant								I Distant								I Distant							
19																	iP	01	41	21.6				
																	iS			36.3				
																	I Regional							
19	e	11	50	11					- ePN	11	50	35					eP	11	50	17.5				
	eP	11	50	19																				
	Trace Distant								Trace Distant								Trace Distant							
21	iP	03	35	57					eE	03	35	56.4					eE	03	36	00.5				
	eP	03	36	21.5					eZ		36	57					iE		36	32.5				
	eS?		37	49					eSE		37	42					iSE		38	04				
									eSZ		38	45												
	Trace Regional																							
									Epicenter in Mt. Lassen region															
21	e	04	35	37					eN	04	35	07					e	04	36	02				
	e	04	36	05					eE		35	59					e			27				
	eS?E		36	31					eSN		36	51												
	I Distant								I Distant								Trace Distant							

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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
21	e	05 07 12					e	05 07 11					e	05 07 31				
	e	05 07 35																
	i	08 05																
	I Distant						Trace Distant						Trace Distant					
21	iP	09 24 47					eK	09 24 47.3					i	09 24 50				
	eP	09 25 10.5					eS	25 34					iP	24 53				
	e	26 46											eSK	26 50.5				
	I Regional	Lassen Park aftershock					I Regional						I Regional					
21	e	12 32 37					ePN	12 32 48					eP	12 33 43				
	iP	12 32 42				-												
	I Distant						Trace Distant						Trace Distant					
23													iP	05 37 36.7				
													is	37.9				
													I Local					
23	iP	17 17 04.5		-38	+88	-138	iP	17 17 01		-	+	-69	iP	17 17 08		-175	+7	-380
	e	20 00					eS?	21 25					eS?	21 57				
	eS?	21 13																
	Dilatation from the N.W. off Vancouver												III Distant					
	III Distant																	
	C.G.S. 49.9°N, (Georgia Strait) 0h17m13s20 Δ = 1088 miles																	
23	eP	20 38 32.5			+19		ePK	20 38 41					eP	20 38 35				
													e	52				
	Trace Distant						Trace Distant						Trace Distant					
24	iP	12 28 14			-12	-12	iPK	12 28 21					iP	12 28 13				-
	I Distant												I Distant					
24	e	15 53 52											iP	15 54 13				+
	i	54 17											e	54 23.8				
	i	55 09											i	55 05.5				
	i	55 39																
	I Distant												I Distant					
	C.G.S. 14°N. 91°W (Near Coast of Guatemala)(0h15m48.0) Δ = 2115 miles																	

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1946 10

Time used is

	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
24	e	17	21	26					eN	17	21	35					e	17	21	29				
		Trace Distant								Trace Distant								Trace Distant						
25																	iP	00	13	22				
																	i		14	22				
																		Trace Distant						
25	iP	01	14	20					i	01	14	35					iP	01	14	26				
	i			22.3													iS		14	43				
	i			32.5																				
	i			36.2														I Local						
	I Local									Trace Local														
25																	iP	07	26	47				
																	iS		26	28.3				
																		I Local						
25	iP	14	17	45					- iP	14	17	48.5					iP	14	17	44		-	?	+50
	I Distant									I Distant								I Distant						
25	iP	15	10	54.5					eP	15	10	19					iP	15	10	21				
	iP			59													iP		10	25				
	iS		11	23													iS		11	35				
	I Regional									I Regional								I Regional						
25	iP	20	26	04					iP	20	26	20.9					iP	20	26	14.4				
	iP		26	10					iS		26	59.4					iP		26	23.4				
	eS		26	46													iS		27	06.4				
	I Regional									I Regional								I Regional						
26	eP	02	14	50					iP	02	14	59.4					iP	02	14	58.8				
	iP			56					iP		15	05.8					iP		15	08.8				
	eS		15	31					iS			44.8					iS		15	51.8				
	I Regional									I Regional								I Regional						
26	iP	04	48	32					iP	04	48	38.5					iP	04	48	30				
	I Distant									I Distant								I Distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **June** 194**6** **11**

Time used is

	BOULDER CITY								OVERTON								PIERCE FERRY							
	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	07	59	45.7		-	+	+	iPz	07	59	48		-	+	+	iP	07	59	41.7		-	?	+
	e		00	02					es?	08	10	00					e?	08	09	53				
	i	08	00	25																				
	i		02	37																				
	I Distant Compression from SE								I Distant								I Distant							
	C.G.S. 14°N, 81°W (Near Coast of Guatemala) O-7:53.6																							
	Δ = 2115 miles																							
26	eP	13	19	21					ePz	13	19	35.7					iP	13	19	20.2				
	es		20	10					es		20	26.7					i		19	35.2				
																	iS		20	32.7				
	I Regional								I Regional								I Regional							
27	eP	03	17	21					ePz	03	17	40.5					iP	03	17	29.8				
	iP			27					es		18	23.5					iP			35.8				
	iS		18	04													es		18	23.8				
	I Regional								I Regional								I Regional							
27	iP	21	52	33				+	ePN	21	52	36.5					iP	21	52	37				
	i			47					i			50.5												
	I Distant								I Distant								I Distant							
29	iP	11	49.6			+		+																
	I Local 5 miles																							
30	iP	02	44	12					iPz	02	44	13.2					iP	02	44	21.2				
	iP		44	14					iSz			29.2					iS		44	43.2				
	eS		44	30																				
	i			31																				
	Trace Regional								I Regional								Trace Regional							
30	iP	05	04	47		+	-	-	iPz	05	04	48.5					iP	05	04	43		+	?	-
	i			56.5					epPz		05	21					epP		05	14				
	epP		05	16					eS		12	54.0					e		13	23				
	e		13	34																				
	e			59																				
	I Distant								I Distant								I Distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June 1946 12

Time used is

No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
30	BOULDER CITY	e	19	55	25				
		e			45				
		i		55	55				
		i		56	05				
		Trace Distant							
	OVERTON	e	19	55	36.0				
		i		56	13				
		Beginning very gradual							
		Trace Distant							
	PIERCE FERRY	eP	19	53	14				
		e		55	18				
		Beginning Very gradual							
		Trace Distant							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF June - July 1946

Time used is

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
June								
21	iP	03	35	57				
	eP		36	21.5				
	eS?		37	49				
	Trace regional							
	Epicenter in the Mt. Lassen regional							
21	iP	09	24	47				
	eP		25	10.5				
	e		26	46				
	I distant - Lassen Park. Aftershock							
July								
7	i	06	56	58				
	iP		57	01.5				
	i			08.5				
	iP			25				
	eS?		58	22				
	i			52.5				
	I far regional - 69° - Lassen Park							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eE	03	35	56.4				
eZ		36	37				
eSE		37	42				
eSZ		38	45				
eE	09	23	47.3				
eS		25	34				
ePE	06	56	58.3				
iE		57	01				
iE			27				
eSE		58	45				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eE	03	36	00.5				
iE			32.5				
iSE		38	04				
i	09	24	50				
iP			53				
eSE		26	30.5				
iP	06	57	04.2				
i			06.5				
i			30.5				
i			35				
eS		58	54				
i		59	04.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . July 1946

The stations at Boulder City, Boulder Dam, Overton and Pierce Ferry operated on routine schedules throughout July 1946.

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
17	6	13:37:38.6	7.5 miles NE Hoover Dam near Black Mountain Wash on S shore of lake
18	11	08:56:33.2	Lake shore about 5 miles NNE of Hoover Dam
19	13	19:13:53.7	4 miles NNE Boulder City
20	14	18:57:06.3	About 2 miles NW Boulder City
21	19	04:50:19.7	3½ miles NE Boulder City
22	19	08:35:43	4 miles NW Boulder City
23	24	17:15:32.6	9 miles NE Hoover Dam on W slope Black Mountains

The following shocks were felt in the Lake Mead Region:

Ep.No.	Date	G. C. T.	Intensity Description
19	13	19:13:53.7	Felt in Boulder City by two persons
20	14	18:57:06.3	Felt in Boulder City

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946

Time used is GCT

Sta. 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	iP	02 59 21.5										
	eS	03 11 14										
		I Distant										
		COS 64°N. 148°W (Near Fairbanks, Alaska) O = 2:52.4 Δ = 2390 mi										
1	eP	04 26 03.5										
	iP	35.5										
		I Regional										
1	eP	10 04 37										
		I Distant										
1	iP	22 48 47							eP	22 48 50		
	i	49 09							eS	59 25		
	i	52 44										
		I Distant										
2	iP	00 10.2										
		I Local 5 mi										
2	i	07 29 33							iP	07 29 33		
	eS	30 05							eS	30 30		
	iS	10										
		Trace Regional										
2									iP	14 14.8		
										I Local 5 mi W		
2	i	15 58.6										
		I Local ca 5 mi										
3	e	00 17 02.5			Probably separate	eP	00 17 37		iP	00 17 27		
	iP	19							iP	33.5		
	i	15							eS	18 08		
	i	26							i	21		
	eS	58										
		I Regional										

International Seismological Centre

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	e	01 08 38							eP	01 08 39		
	i	48										
	I Distant											
3	i	06 15 55							iP	06 15 48	weak	
	i	59.6							i	51		
	eS	16 55							iP	16 00	strong	
	i	09							eS	57		
	I Regional											
3									eP	12 55 19.5		
									Trace Distant			
4	i	06 10.2										
	Trace Local 14 mi											
4	iP	07 13 29							iP	07 13 32		
	Trace Distant								i	14 11		
4									i	09 33.5		
									I Local 7 mi			
4	e	09 45 57							iP	09 45 39		
	iP	46 01							iP	47		
	i	47 36							eS	47 03		
	I Regional											
4									iP	10 35 50		
									Trace Distant			
4									iP	11 13 49		
									iS	14 10		
									Trace Regional			
4	i	16 33.0										
	Trace Local 14 mi											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946 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
5	iP	03	13	10.5					iP	03	13	02					iP	03	13	03		+10		-
	i			12					iS			21					iS			24				
	iS			40					II Regional								i			56				
5	e?	10	51	32													e	10	49	22				
	i			50													e		51	44				
	i		52	01													I Distant							
5	iP	11	16	10													iP	11	16	12.6				
	iS			40													iP			17.2				
	I Regional																i			29				
																	eS			51.5				
5	i	13	16	55.4													iP	13	17	00.5				
	iP		17	00													iP			01.5				
	i			26													e			08.5				
	iS			37													eS			39.5				
	I Regional																							
5	iP	17	24	10.6													iP	17	24	14				
	iS			40													i			18				
	I Regional																eS			40				
5	eP	18	22	03.2													e	18	22	13				
	i			25.7													i			43				
	iS			34.2													Trace Regional							
5																	iP	19	42	21				
																	I Distant							
6	iP	01	50	57.7													e	01	51	01				
	e		51.	24.4													eP			05.5				
	iS			27													eS			39				
	I Regional																							
6	iP	08	18	01													iP	08	18	02				
	iS			31.4													iP			10				
	iS			34.2													eS			41.5				
	I Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946

Time used is GCT

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
6	0	13	37	38.6					eP?	13	37	48.3					iP	13	37	48.6				
	iP			42.8		+E	?	-	i			53.7					i			54.8				
	iS			45.7					iS			54.4					iS			55.9				
	i			46					i		38	00.7					i			59.4				
		I Local 13 mi							iS			01.2							36.5 mi				
		Epicenter 7.5 mi NE Hoover									31.5 mi													
		Dam near Black Mountain Wash																						
		on S shore of Lake. h = ca 6 mi																						
6	eP	17	33	59													iP	17	34	02				
	i		34	03													i			08				
	iS			29.6													eS			40				
		I Regional																						
7	iP	05	23	55.5													eP	05	23	51				
		Trace Distant																						
7	i	06	56	57.5					eP?	06	56	58.3					iP	06	57	04.2		+	-	+
	iP		57	01.5					iS?		57	05.5					i			06.5				
	i			08.5					iE			27					i			30.5				
	iP			23.5					eS?		58	45					i			35				
	eS?		58	42													eS		58	54				
	i			52.5													i		59	04.5				
		I Regional 6.9° - near Mt. Lassen, Calif.																						
		Felt in Mt. Lassen National Park Area and Redding, Calif.																						
7	eP	07	32	38					iP	07	32	46					eP	07	32	50				
	iP			42								Trace Regional					eS		33	34.5				
	eS		33	18																				
7	iP	20	07	30													iP	20	07	34	1.0	-	-	-
		Trace Distant															i		08	27	2.0			
8																	iP	09	10	40	1.0			
																				Trace Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946 5

Time used is GCT

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**						
8	eP	18	01	08					eP	18	01	12					eP	18	01	11				
		Trace Distant																						
8																	iP	18	59	47.6				+
																	iS	19	00	04				
																		I Regional						
9	eP	01	20	31.5					eP	01	20	37					eP	01	20	35				
	i			36						I Distant														
9	iP	03	19	43.5					iP	03	19	51					iP	03	19	53				
	iP			49					eP			58					iP		20	02				
	iS		20	26					eS		20	29					i			16				
																	i			40				
																	eS			47				
		I Regional								II								II						
9	iP	10	11	42					eP	10	11	42					iP	10	11	44				
	ipP		12	00													ipP		12	04				
		Trace Distant																						
9									eP	12	05	21					iP	12	05	27	0.9		+	
																		Trace Distant						
9	iP	13	26	36	1.5	+50	+12	+250	iP	13	26	38.3		+			iP	13	26	39		+50	+50	+430
	i			50					iP			41					eS		36	56				
	iS		36	53					iS		36	55							II					
	iS		37	22					iS		37	25												
		II Distant									II													
		Compression from S of W - Δ 82° - Caroline Islands																						
9																	iP	17	10.6					
																		I Local 8 mi						
9																	iP	17	25.0					
																		I Local 8 mi						

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
	9																	iP	23	59	33				
																		I Distant							
	10																	i	03	24.0					
																		Trace. 75 mi							
	10																	iP	03	37	29				
																		Trace Distant							
	10																	iP	10	57	07				
																		Trace Distant							
	10	e	17	11	39													eP	17	11	38				
		eP			47													iP			47				
		Trace Distant																							
	11									i	04	44.0													
										I Local - ca 5 mi															
	11	iP	04	52	08.5	1.0	+6	-6	+5	iP	04	52	10					eP	04	52	05		+	-	+
		i			37					i			35					iP			07				
		m							880									i			33				
		es			56.8													es		56.7					
		e	05	00	27													e	05	00	15				
		e		01	35																				
		III Distant																							
		CGS 17°N, 94°W (Isthmus of Tehuantepec, Slight Depth)																							
		O = 4:46.6 Δ = 1800 mi																							
18	11	O	08	56	33.2					iP	08	56	42.9					iP	08	56	44.0				+
		iP			37.3		+	+	-	iP			43.3					i			50.6				
		iS			40.1					i			48.3					iS			51.6				
		I Local - 13 mi								iS			49.3												
		Epicenter on Lake Shore about 5 mi NNE																							
		of Hoover Dam - Estimated Depth about 8 mi.																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 19[illegible] 7

Time used is GCT

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	eP	13 25 16.6											iP	13 25 21.0	small			
	iP	21											iP	22.0	large			
	eS	50											eP	27				
	I Regional												eS	26 01				
11	iP	16 33.1			-													
	II Local 3 mi																	
12													iP	02 46 36				
													Trace Distant					
12													eP	04 01 25.5				
													iP	30				
													eS	03 15				
													I Regional					
12	eP	05 17 15											eP	05 17 12.5				
	eS	24 12											eS	24 00				
	Trace Distant												i	26				
12													eP	15 00 28.5				
													iP	33.0				
													i	45				
													eS	02 13				
													I Regional					
12	iP	18 12 40		+9		-10	Lost in local disturbance						iP	18 12 47.1		+15		+
	i	41.4											iN	47.3				
	iS	42.7											N	48.3				
	II Local												i	53.8				
	Epicenter probably same as No. 18												iS	54.8				
														II				
12	e	19 01 37											eP	19 01 36.5				
	eP	49											iP	52.5				
	Trace Distant													I				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946 — 6

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	iP	22	04	05	1.1	-15	+10	-									iP	22	04	09		-28	+28	-
	i			22													iS		10	22		+25	+38	
	i		09	42													iS?		13	03				
	iS		10	15	1.5																			
	i		13	57	2.4																			
		I Distant			2.5																			
12	iP	23	37	03.5													iP	23	37	00				
		I Distant															eS?		43	38				
13																	eP	01	52	19				
																		Trace Distant						
13	iP	09	45	57.3		+8		-	1	09	46	03.7					iP	09	46	04.1		+		+
	iS		46	00.0					i			07.1					i			10.7				
		I Local 14 mi							iSW			09.6					iS			11.9				
		Epicenter about the same as No. 18							i			13.3												
13	eP	12	01	17.5													iP	12	01	34.5				
	iP			23													eS		02	17.5				
	eS			58.5													Trace Regional							
		Trace Regional																						
13																	i	13	42.4			+15		+
																	I Local ca 6 mi							
13	i	13	46	50.5													e	13	46	56				
	iS		47	20													eP		47	00				
		Trace Regional															eS			30				
																	Trace							
19 13	O	19	13	53.7					iS?	19	14	14.7					i?	19	14	03.4				
	iP			55.4		-655	+150	+									iP?			05.7				
	iS?			56.6													iP			06.2				
	i			57.2													i			08.2				
	i			57.7													i			12.7				
		III Local - 4 mi															iS			14.1				
		Epicenter 4 mi ESE Boulder City - Felt in Boulder City by two persons.																	44 mi					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 194 6 9

Time used is GCT

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	19 17.5																
		Trace Local 6 to 9 mi																
14													e	05 03 12				
														Trace Distant				
14	1	12 19 35.7											iP	12 19 45				
	iP	37.2											iS	20 10				
	iS	50.2																
		I Near Regional																
14	iP	12 44 57.7		-		+	iP	12 45 03.7					iP	12 45 04.0		+10	+1	+
	iS	59.7					i	09.3					iS	11.7				
	i	45 00.4					iS	09.7					iE	17.6				
		I Local 10 mi					i	12.5										
		Probably about 5 mi NE Fortification Hill																
14	iP	13 38 50.03																
	iS	51.8																
		I Local 7 mi																
14	iP	14 11 40.1					i	14 11 51.8					iP	14 11 46.3				+
	iS	42.9					i	52.8					iS	55.1				
		I Local					i	54.5										
20 14	0	18 57 06.3					iP	18 57 17.8					iP	18 57 19.2				-
	iP	08.5		-50ca+50-175			i	18.1					i	27.1				
	i	09.5					i	25.3					iE	27.7				
	iS	10.0					iS	26.1					iSZN	28.2				
		III Local						42.5 mi					i	31.3				
		Felt in Boulder City											i	33.0				
		Epicenter about 2 mi NW Boulder City. Depth of focus about 5 mi												48 mi				
14	eP	23 11 33.5											iP	23 11 38				
	eS	12 23.5											iS	12 37				
		Trace Regional																

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
15	eP	00	34	20.5					1?	00	34	11.0					1P	00	34	10.8				
	i			53					1P			11.9					1S			34.6				
	1S			56.5					1S			35.3							I				
		Trace Regional									I													
15	eP?	02	03	47.6													eP?	02	03	47				
		Trace Distant																						
15																	1P	09	15	54				
																		Trace Distant						
15																	1	17	20.4					-
																		II Local 6 mi						
15	1P	18	39	43													1P	18	39	39				+
	1			54.5																				
		I Distant																						
16																	e	05	40	19				
																	e		44	23				
																		Trace						
16	1P	07	39.1																					
		Trace Local 8 mi																						
16	1P	09	25	16						Trace								Trace						
	1S			17.4																				
		I Local 7 mi																						
16	i	13	50.5																					
		Trace Local 8 mi																						
16	i	13	52.6																					
		I Local 8 mi																						
16	1P	20	26	03				-	1P	20	26	05			+		1P	20	26	01			+	-	-
	i			08					eS		35	28					e			52				
		I Distant															eS		35	21				
																			SE					

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **July** 1946 — 11

Time used is **GCT**

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	iP	05	12	46													iP	05	12	49				-
	Trace Distant																							
17																	1	08	08.4					
																	Trace Local 5 mi							
17	iP	08	49	32.6													Trace							
	I Local 5 mi																							
17	e?	10	39	37					eP	10	39	47.5					eP	10	39	39				
	eP			44					is		48	49					eS		47	59				
	i			56.7													eS		48	25				
	eS		48	16																				
	e			31																				
	I Distant																							
17																	eP	13	45	56.5				
																	Trace Distant							
17	iP	16	38	44					iP	16	38	51					iP	16	38	48.5				
	is		39	15.5					eS		39	30					iP			57				
	I Regional																eS		39	34				
18																	i?	05	02	43				
																	i			48				
																	i			52				
																	May be trace of foreshock							
18	i	05	02	39.5					eP	05	02	17.5					iP	05	02	56.5				
	iP			44.5					iP			23					eS		03	35				
	eS			52.5					eS		03	25							II					
	i	03	39																					
	II Regional																							

International Seismological Centre

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
18	iP	06	11	04					iP	06	11	02					iP	06	11	08				
	i			33.5													i		13	16				
	e		14	05							II						eS		14	25				
		I Distant															i		54	47				
		CGS 50°N, 129°W (Depth, slightly less than 100 KM) O = 6:07.1 Δ = 1195 mi																	II					
18	eP	07	20	34					eP	07	20	32					e	07	20	32				
	e			57					e		23	59					iP			36				
	eS		23	57					i		24	16					i		24	18				
		I Distant															eS?		27	51				
		CGS (Aftershock) O = 7:16.5															i		34	44				
																	Coda				6.5			
18																	iP?	11	58	42				
																	i			56				
																		Trace Distant						
18	iP	14	28	28	1.5	-114	-	-410	iP	14	28	37		-	-225	-	iP	14	28	36		-	-	
	i			32					iP			43.5												
	i?			55					iS?		29	16												
	iS?			57.5							IIISSW													
		III Regional																						
18	eP	15	25	12													eP	15	25	14				
		Trace Distant																						
18																	iP	16	10	20.5				
																		I Distant						
18	iP	22	17	04																				
		Trace Local 7 mi																						

International Seismological Centre

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
18	iP	22 35 12.5		+		Lost in local noise			i	22 35 15.4		
	i	14							i	23.7		
	iS	14.6							i	24.3		
	I Local								i	24.6		
									iS	31.1		
18	iP	22 58 32		+					i	22 58 41.6		
	iS	33.6							i	41.9		
	I Local 7 mi								iS	50.4		
										Trace		
18	iP	23 17 46										
	Trace Local											
18	iP	23 36 30								Trace		
	Trace Local 7 mi											
18	iP	23 36 56.5								Trace		
	iS	58										
	I Local 7 mi											
18									iP	23 49 26.5		
										I Distant		
21 19	0	04 50 19.7			i	04 50 31.0			iP	04 50 31.4		
	iP	21.8		-15-20 +	i	37.5			i	31.7		
	iS	23.3			iSEW	38.4			i	37.6		
	i	23.9			i	40.0			i	39.0		
	II Local					40½ mi			iS	40.0		
	Epicenter 3½ mi NE Boulder City									44½ mi		
										I		
19	iP	04 57 38		+								
	iS	39										
	I Local 4 mi											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 194 6 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
19	iP	05	05	11.5													iP	05	05	19				
	iP			15													iP			24.5				
	iS			37.5													iS			54				
	i		06	0.6																				
	I Regional																							
19	iP	05	06.5															Trace						
	I Local 7 mi																							
22 19	iP	08	35	43		+40	-20	+145	i	08	35	53.3					iP	08	35	55.0				
	iS			44.3					i			54.0					iE		36	03.1				
									iSr		36	00.4					iSZN			04.3				
									iS			01.0					iZ			04.8				
	II Local								i			02.0												
	4 mi NW Boulder City									42 mi								49 mi						
19	i	13	34	34.5													iP	13	34	39.5				
	iP			35.5													iP			45				
	iS			58													i		35	06				
	I Regional																iS			15				
19	eP	21	28	01																				
	I Distant																							
19-20	2	Traces local ca 6 mi																						
21	e	11	29	30														Trace						
	e			49																				
	Trace Distant?																							
21	iP	14	35	56													eP	14	35	59.0				
	iP		36	02.5													iP		36	08.0				
	iS			30.5													iS			31.5				
	Trace Regional																		I					

International Seismological Centre

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	e	22	56	14													e	22	56	23				
	iP			21													iP			24.5				
	iS			57													iP			33				
		I Regional															eS		57	15				
22																	iP	10	26	31.5				
																		Trace Distant						
22	i	15	20	14.5		+5		+	e	15	20	20.5					iP	05	20	23.8		+6		+
	iP			20.5					iP			23					iP			31.7				
	i			38					iP			28.5					iP			32.4				
	iS			55					eS		21	05					iS		21	14.5				
		II Regional									II													
23	i	11	26	43					eP	11	26	48					e	11	26	49				
	iP			46.5					iP			54					iP			53				
	i			50					eS		27	34					iP			59				
	i			58							I						eS		27	39				
	iS		27	21																				
		I Regional																						
23	iP	17	27	22.5													iP	17	27	26				
	i			28.5													i		30	02				
	iS		30	58																				
		I Distant																						
23	iP	17	45	08													iP	17	45	11				-
	i			14													e		51	12				
		I Distant																						
24	iP	00	20	22.5													iP	00	20	15.5				
	iSr		21	17													i			28				
		I Regional															i			31.5				
																	e		21	25				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946 16

Time used is GCT

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**							
	24	iP	11	13	19													iP	11	13	24				
		i			41													i			51				
		i			57																				
		iS		17	15.5																				
		I Distant																							
23	24	iP	17	15	32.6				-	i?	17	16	33.2					iP	17	15	37.5		-		-
		iS			36.2					i?			36.0					i			43.8				
		i			36.4					i?			41.5					iS			44.4				
			I Local							iS?			43.0							35 mi					
			14.3 mi							i?			55												
			9 mi NE Hoover Dam on W slope									31 mi													
			Black Mountains (Local depth about 11 mi)																						
	24																	iP	19	39	05				
																			I Distant						
24		iP	17	15.4																					
			Trace Local 18 mi																						
24		iP	21	46	43													iP	21	46	47.3				
			Trace Distant ?																						
25		iP	04	31	10																				
		iS			11																				
			Trace Local																						
25		iP	09	02	30.9		+25	+	-	eP?	09	02	35.1						No Record						
		i			31.8					i			35.9												
		i			33.3					i			39.7												
		iS			34.5					iS			41.3												
			I Local 14 mi NE																						
			Epicenter about same as No. 23																						

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
25	iP	16	50	45				+	eP	16	50	45												
	i			52.5					iP			47												
	eS		57	35					eS		57	37												
	I Distant								II															
	CGS 51°N, 179°W (Aleutian Islands)								0 = 16:42.1															
	Δ = 3260 mi																							
26	eP	04	21	30					eP	04	21	31.5												
	iP			33.5																				
	I Distant																							
26	e	06	55	52					eP	06	55	55												
	iP			54					iP			56												
	i		56	12					eS	07	05	09												
	eS	07	05	04					II															
	I Distant																							
	CGS 21.6°S, 70°W (Northern Chile)								0 = 6:44.7															
	Δ = 4900 mi																							
26	iP	13	02	36																				
	iS			37.5																				
	Trace Local 8 mi																							
26	iP	22	44	41					eP	22	44	44												
									eS		55	35												
	I Distant								I															
27									eP	02	34	17												
									Trace Distant															
27	iP	03	25	22																				
	iS			23																				
	Trace Local 5 mi																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 194 6

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	0	03	26	11.8					iP	03	26	20.9												
	iP			16.8		+15	+	-	i			24.7												
	iS			20.0					i			25.9												
		I Local 1¼ mi NE							iS			27.1												
		11 mi deep									I													
		Epicenter probably same as No. 23.									31½ mi													
27	eP	05	55	44					eP	05	55	47												
										Trace Distant														
27	iP	06	33	47																				
	iS			48.5																				
		I Local 8 mi																						
27	iP	09	19	06		+		-																
	iS			07																				
		I Local 5 mi																						
27	iP	11	14	43						Trace														
	i			46																				
	iS		15	14																				
		Trace Regional																						
27	eP	13	58	48					eP	13	58	49												
										Trace Distant														
27	iP	21	55	33					eP	21	55	35												
	i			45							I													
		I Distant																						
27	iP	22	51	28					eP	22	51	31												
	i		53	29					eS	23	00	59												
	eS	23	00	57							I													
		I Distant																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF July 1946 19

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	iP	04	40	02																				
	iS			04																				
	Trace Local 5 mi																							
28	iP ?	05	14	54					iP	05	15	03												
	iP		15	00					i			06.5												
	iS			36					iP			09												
									eS			48												
	I Regional									I														
28									e	08	07	45	1.2											
									e		08	40	1.2											
									e		20	55	3.0											
									Trace Distant															
28	eP	22	28	53.5					eP	22	28	55												
	Trace Distant																							
30	iP	06	13	53						Trace														
	Trace Local 1¼ mi																							
30	eP	07	34	11					eP	07	34	11												
	Trace Distant																							
30	eP	18	43	22					e	18	43	20												
	i			32.5					e			32												
	Trace Distant																							
31	i	00	38	26.5					i	00	38	20												
	i			42.5					iP			27												
	I Distant								iP			43												
31									eP	18	29	57												
									Trace Distant															

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . August 1946

The stations at Boulder City, Boulder Dam and Overton operated on routine schedules throughout August 1946.

Due to serious illness of the caretaker at Pierce Ferry, that station was out of service from August 6 until the end of the month.

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
24	10	10:42:27.5	Black Mountains - 75 miles E of Hoover Dam

Confidential - not for publication

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF August 1946 1

Time used is

	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	04	43.3													
									I Local 5 mi															
1									iP	21	03	53												
									I Distant															
2	eP	01	45	14.5					e	01	45	17												
									eP			25												
									eS		51	04												
									I Distant															
2									eP	04	03	04												
									eP			11												
									eS			52												
									Trace Regional															
2	eP	05	23	01					iP	05	24	01												
									I Distant															
2									eP	11	41	49					iP	11	41	53				
									eP			54												
									Trace Distant								I Distant							
2									i	12	12	46												
									Trace Distant?															
2	iP	19	30	29		+	-		iP	19	30	30		+	-		iP	19	30	26.3		+	-	-25
	eS		39	54					iP			32		+	-		iP			27.1	1.5	+40	-23	-150
	eS		40	30					eS		40	04					M				2			750
	iPP		55	45					eS			35					eS		39	55				
									iPP		55	47	1.2				iS		40	27	3.7			
		II Distant							III								i		50	55	1.3			
		CGS 27°S. 70°W (Near Copiapo, Northern Chile)															Surface waves				30			
		O = 19:18.7							Δ = 5225 mi								iPP			55	43	1.0		
																	i				55	1.0		
																	iPPP		20	17	34	2.5		
																					III			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF August 1946

Time used is GCT

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	02 04 47.5		
										Trace Distant		
3					i	02 14 26			iP	02 14 32.5		
					iP	27.5			i	40.5		
					eS	15 21			iP	44.5		
						Trace Regional			iS	15 39.0		
3					eP	07 56 45			iP	07 56 22.5		
						I Distant						
3									i	10 14.0		
										I Local 5 mi		
3					e	13 18 20			iP	13 18 20.5		
					iP	25			iP	31		
						I Distant						
4									iP	11 43 41.6		
									e	44 41		
									e	59		
										Trace Regional		
4	iP	17 59 13			iP	17 59 11			iP	15 37 25		+
					iP	12			e	47		
						III Distant			e	39 20		
									iP	17 59 56.0		+15
									iP	58.0		+90
									eS	18 05 36		
									i	10 06	1.2	
									eG	11.5		
									i	53	1.0	
									M	19.5	15	750
									i	27 06	1.5	
									i	32 45	1.5	
									i	36 24	1.5	
									Coda	19.5	12	

CGS 19.3°N, 690°W (9 mi E of Samana Peninsula Dominican Republic. O = 17:51:07 Δ = 2990 mi. Several of the undesignated Pierce Ferry readings are probably aftershocks. Magnitude: 8.1 (Pasadena)

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF August 1946 3

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
4	iP	18	41	52					iP	18	41	51					i	18	41	47	1.5			
										I Distant (Aftershock)							eN							130
4																	i	19	48	23	1.3			
																		I Distant						
4									iP	21	01	27					iP	21	01	24				
										I Distant (Aftershock)										I				
4																	iP	21	30	20				
																		I Distant						
4									iP	21	57	45					iP	21	57	41	2			
										I Distant														
5																	eP	00	00	59				
																		Trace Distant						
5																	eP	00	59	59				
																		Trace Distant						
5																	eP	03	45	41				
																	i		47	15				
																		Trace Distant						
5																	iP	06	28	18				
																		Trace Distant						
5																	i	07	04.4					
																		Trace Local 30 mi						
5																	iP	10	00	40				
																		I Distant						
5																	iP	12	15	49				
																		Trace Distant						

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MONTH OF August 1946

Time used is GCT

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	eP	12 41 23			iP	12 41 21 I Distant			iP e	12 41 17 49 21	2.0	
5									iP e	13 19 37.5 26 06 Trace Distant		
5									eP	14 10 59 Trace Distant		
5									iP	15 31 40 I Distant		
5									iP	17 23 00 Trace Distant		
5	e? eP	20 16 49 55 Trace Distant			eP	20 16 56						
6	eP iP i	03 00 39.5 43.5 52 I Distant Strasbourg: 11.5°S, 165.5° E			e iP O = 02:46.9	03 00 20 27				No record		
6	iP	06 05 23.5 I Distant			iP	06 05 22 I						
6	iP i iP i iP	13 24 16.5 51 14 11 10 19.5 16 24 25 Trace Distant			iP eP	13 24 19 14 11 14 Local Noise			iP iP	16 23 42 49		

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MONTH OF August 1946 — Time used is GCT

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	17 11 46 Trace Distant						Local Noise					iP	17 11 39.5				
6	iP	18 16.4 I Local 8 mi																
7													eP	06 25 21 Trace Distant				
7	iP	07 40 52 I Distant Pacific (Pasadena)					eP	07 40 56					iP i	07 40 56 41 34				+
7	iP	18 34 30 I Distant				+	iP	18 34 28					iP	18 34 24				
7	eP	19 29 26 I Distant					eP	19 29 27					eP	19 29 22				
7	iP i eS	19 39 40.5 53 46 05 II Distant		-	+	-	iP?	19 39 40 Beginning masked by local noise					iP i iS	19 39 43.7 57.5 46 21 II				
7	eP	20 11 31 I Distant					eP?	20 11 39 Beginning masked					No record at Pierce Ferry remainder of month					
7	iP e	20 40 54 42 56 I Distant					eP iP	20 40 55 41 02										
8							eP	22 23 12 Trace Distant										
8	e	00 58 27 Trace Distant					iP	00 58 49 I Distant										

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Time used is

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**						
8	eP	01	54	26					iP	01	54	29												
		Trace Distant								Trace Distant														
8	eP	10	06	12					iP	10	06	11												
	iP			22					i			21												
	eS		07	08					eS			56												
		II Regional									II													
8	e	11	16	12.5					eP	11	16	07												
	iP			17					eP			12												
		I Regional							e		17	02												
									e		19	04												
8	iP	11	46	52							Trace													
	e			54																				
		II Local 6 mi																						
8	eP	13	36	30				+	e	13	36	29												
	iE			35		-			iP			32												
	iP		37	03					iP			38												
	eS		42	55					i		37	11												
									eS		42	51												
									Coda		43	04	13											
		II Distant									II													
		CGS (Aftershock of destructive Dominican Republic Quake of Aug. 4 off of Samana Peninsula. O = 13:26:24 Magnitude 7.6 (Pasadena)																						
8	iP	14	36	47		+	?	-	iP	14	30	46												
		I Distant																						
8	eP	15	20	00							Masked													
		Trace Distant																						
8	eP	15	26	57					eP	15	27	58												
		Trace Distant																						
8	iP	15	38	48					e	15	38	49												
		Trace Distant																						

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MONTH OF August 1946 7

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
8	iP	15	49	47.5					e	15	49	47												
	Trace Distant																							
8	eP	16	14	06					iP	16	14	06												
	Trace Distant																							
8	eP	16	18	14						Masked														
	Trace Regional																							
8	iP	17	32	09		+		-		Masked														
	I Distant																							
9	iP	08	33	44				-	iP	08	33	43												
	I Distant																							
9	iP	16	41	55					iP	16	41	55												
	I Distant																							
9	iP	20	14	48				+	iP	20	14	42												
	I Distant																							
	West Indies: Aftershock. (Pasadena)																							
9	iP	21	01	24					e	21	01	22												
	I Regional ?																							
10	iP	02	18	31				-	iP	02	18	30												
	I Distant																							
10	iP	07	15.5			-10		+																
	I Local 3 mi																							
10	iP	09	08	21					iP	09	08	19												
	I Distant																							
24 10	0	10	42	27.5					e	10	42	37.3						Hoover Dam						
	iP			31.8		+50	-50?	0	iP			37.7					eP	10	42	30.2				
	i			33.2			+60		i			42.7					eS			32.0				
	iS			34.8		415	69		iS			44.3												
	II Local 14 mi											36 mi												
	Epicenter in Black Mountains 75 mi E of Hoover Dam																							

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

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Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
	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	11	53	49.5					iP	11	53	49												
		I Distant																						
10	iP	21	24	19					iP	21	24	21												
	iS			39					eS			41.5												
		I Regional									I													
10	iP	23	44	32					1	23	44	22												
	iS			48					iP			27												
									es			38												
		I Regional									I													
11	iP	02	07	45				-	iP	02	07	51.5												
		I Distant									I													
		COS 8°S, 155°E (Solomon Islands)							0 = 1:54.3				Δ = 6435 mi											
		Magnitude about 6.75 (Pasadena)																						
11	iP	03	49	06					iP	03	49	04												
		I Distant																						
		West Indies (Pasadena)																						
11	iP	13	20	49					eP	13	20	47												
		West Indies (Pasadena)								Trace Distant														
12	iP	07	23.9																					
		I Local 7 mi																						
12	eP	22	12	43						Masked														
	i		13	13.5																				
		I Regional																						
12	eP	23	09	04					i	23	09	16.5												
	i			11					iP			20.5												
	i			36					eS			54												
		I Regional									I													

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MONTH OF August 1946

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
13	eP	00	39	25					i	00	39	21												
	i			42.5					iP			23												
		I Regional							iS			32												
										I Local 50mi														
14	iP	09	52	26					i?	09	52	31												
	iP			40					e			38												
		I Distant								Trace on E														
		Strasbourg:			37.5°N, 141.8°E.				0 = 09:40:30															
14	i	10	01	27					i	10	01	36.5												
	iP			29					iP			43.5												
	iS			53					eS		02	13												
		I Regional								I														
15									e	01	09	33												
									eP			45												
										Trace Distant?														
15									eS?	04	52	43												
										Trace Regional?														
15	iP	07	43.1																					
		Local Trace																						
15	e	15	37	10					e	15	37	18												
	i			12					iP			22												
		Trace Distant																						
		CGS 22°S, 170°E (Loyalty Islands)							0 = 15:23.9															
					Δ = 6340																			
15	eP	18	59	41					eP	18	59	53												
	iP			44					eS	19	00													
	i	19	01	06.5						I Regional														
	i			27																				
		I																						
		Pas 33°58'N. 115°58'W. 0 = 19:01:04 Magnitude 4.0																						

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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									eP	19	02	00												
									e			10												
									eS			48												
									II Regional															
16	iP	04	26	37		+12	0	-		Trace														
	iS			48.5																				
	I Local 5 mi																							
16	iP	17	26	31						Masked														
	iS			34																				
	I Local 15 mi																							
17	iP	03	48	02																				
	iS			03																				
	I Local 5 mi																							
17	iP	04	52	43					iP	04	52	43												
	Trace Distant																							
17	iP	11	27	56					iP	11	27	55												
	I Distant																							
	West Indies (Pasadena)																							
17	iP	13	24	52						Trace														
	iS		25	05																				
	I Regional																							
17	eP	23	56	05						Masked														
	Trace Distant																							
	Iraq (Pasadena) USSR: 35.5°N, 45.5°E																							
18	iP	02	10	43						I														
	iS		11	19																				
	I Regional																							
18	iP	02	58.5																					
	Trace Local																							

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Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
	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	06	59	33					iP	06	59	34												
	I Distant																							
	Strasbourg: 37.6°N. 141.8°E								O = 06:47.7															
18	iP	09	58	47					iE	09	59	01												
	iS		59	23					eS			43												
	I Regional																							
18	eP	21	31	37							I													
	i			47																				
	iS		32	34																				
	I Regional																							
19	iP	04	11	10.5					iP	04	11	10.5												
	Trace Distant																							
	West Indies (Pasadena)																							
19	eP	05	48	50					iP	05	48	50												
	I Distant										I													
	West Indies (Pasadena)																							
19	eP	12	09	21.5							Trace													
	Trace Regional																							
20	iP	05	36.3																					
	Trace Local																							
20	iP	08	25.7																					
	Trace Local																							
20	iP	09	55	24					eP	09	55	18												
	I Distant																							
	USSR: 30°N. 127°E																							
20	iP	12	57	25.5					iP	12	57	25												
	I Distant																							
	West Indies (Pasadena)																							
21	e	09	55	16					iP	09	55	22.5												
	eS			55					eS		56	06												
	Trace Regional																							

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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
21	iP	18	12	42	1.0	-	?	-19	iP	18	12	46												
	i		13	03					eS		23	04												
	iSE		23	00																				
	eSE			43																				
	I Distant																							
	Pas: 24°S, 177°W; 0 = 18:00:18; 100 KM deep. Magnitude 7																							
21	iP	19	07							Masked														
	I Distant																							
	West Indies (Pasadena)																							
22	iP	19	25	45	.75	?	?	+6	iP	19	25	43												
	e		31	45																				
	e		35	42																				
	I Distant																							
	GOS (Aftershock of destructive Dominican Republic Quake of August 7, off Samana Peninsula; 0 = 19:17:6; Magnitude 6.5 to 6.75																							
22									eP	01	53	06												
									Trace Distant															
22	e	20	26	57							I													
	eP		27	25																				
	I Regional																							
22									eP	21	48	36												
									Trace Distant															
22	e	22	21	41						Trace														
	eP		22	13																				
	I Regional																							
23									e	04	22	14												
									Trace Distant															
23	e	08	34	00					eP	08	34	00												
	Trace Distant								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	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	e	20	41	40.5						Masked														
		Trace Regional																						
23	iP	21	06	48.0					eP	21	06	44.9												
	i			54.2					iP			46												
	iS			55.5					iS			55.5												
	e		07	08	2.0					II Local		45 mi												
	e			12	1.5		25																	
	I Local																							
23	i	21	17	29.5					iP	21	17	29												
	iP			30					eS			35												
	i			37.5						I Local														
	iS			38.5																				
	e			51	2.0																			
	e			55	1.5																			
	I Local																							
23	iP	23	00	21						Trace 90 mi														
	i			34.5																				
	Trace Regional																							
24	e	02	49	01					e	02	49	08												
	Trace Regional or Distant																							
24	e	09	25	38.5					e	09	25	35												
									e			38												
	Trace Distant									Trace														
24	eP	12	17	14					iP	12	17	23												
	I Regional								iS?			18 02												
24									e	13	04	22												
										Trace Distant														
										West Indies (Pasadena)														
24	iP	14	26	19.5					eP	14	26	17												
	I Distant																							
	West Indies (Pasadena)																							

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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
25									e	13	51	16												
										Trace Regional ?														
25									eP	15	44	39												
										Trace Distant														
25	e	21	37	19						Masked														
	e		38	22																				
		Trace Distant																						
26	e	02	47	12.5					e	02	47	13												
		Trace Distant																						
28	iP	01	52	15					eZ	01	52	15												
		I Distant							eE			21												
		North of New Zealand (Pasadena)																						
28	eP	05	48	20					e	05	48	25												
	e			54.5					iP			29												
		I Regional							iS		49	09												
28	e	06	42	22					i	06	42	01												
		Trace Regional?							i			41												
										Trace														
28	e	20	18	49.5					eP	20	18	54												
		I Distant										I												
28	iP	22	39	27	1.0	-12	+	+25	iP	22	39	28		Curtsy										
	eS?		44	56					iP			29.5		-30	+20	+								
	eSE		48	39					iPP		41	30												
		Compression SE							iS		48	42												
		I Distant																						
		CGS 21°S, 70°W (Northern Chile); O = 22:28.2 Δ = 4875 mi																						
29	iP	04	07	25					iP	04	07	22												
		I Distant										I												

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BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
[illegible]	e	05	41	29				
	e		42	20				
		I Distant?						
30	eP	06	26	01				
		I Distant						
30	eP	11	12	14				
	e			49				
		I Regional						
30	e	11	17	33				
	iP			40.5	1.0	-	+	+6
	eS		18	22				
		II Regional						
		Pas: 33°14'N, 115°42'W;						
		Magnitude 4.6, O = 11:16:45						
		Foreshock at 11:12. Aftershock at 21:48						
30	iP	20	29	16				
		Trace Distant						
30	iP	21	48	29				
	i		49	09				
		I Regional						
30	iP	22	57	20				
		Trace Local						
30	iP	22	57	44				
		Trace Local						
31	iP	09	10	56				
	i		11	02				
		I Regional						
31	e	15	05	51				
		Trace Distant						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
e	05	40	09				
eS		42	23				
i			29				
		I					
e	06	26	10				
eP			15				
		I					
iP	11	12	25.5				
iP			35				
eS		13	16.5				
		I					
iP	11	17	41.5				
i			51.0				
iP			52.3				
eS		18	37				
iS			42				
		III					
eP	20	29	18				
	Trace						
	Masked						
	Masked						
	Masked						
iP	09	11	02.5				
iP			10.5				
eS			49				
	II Regional						
e	15	06	15				

PIERCE FERRY

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

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . September 1946

The stations at Boulder City and Overton operated on routine schedules throughout September 1946. Pierce Ferry was out of operation until the 12th of the month.

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	G. C. T.	Location of Epicenters
25	9-19-46	07:57:00.9	3 miles SE Boulder City
26	9-25-46	10:52:05.1	6 miles N by W of Hoover Dam

No earthquakes reported felt during the month of September in the Lake Mead Region.

Confidential - not for publication

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946

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
2	iP	13 07 21					iP	13 07 23						Out of operation first part of month				
		Trace Distant						I Distant										
2	iP	21 57 17.5	1.0	-	+	12+		Masked										
	i	45																
	eSK	22 06 22	2.5															
		I Distant																
		Tacubaya: 17° 24'N, 94° 52'W - Yucatan																
3	iP?	07 21 15.4					eP	07 21 15.7										
	iS	19.9					iZ	21.5										
							iSK	21.9										
		Trace Local - 31 mi?						Trace Local - 32 mi?										
4	eP	00 22 11																
		Trace Distant																
4	iP	08 11 51			-		iP	08 11 39										
		Trace Distant					i	13 49										
4	eP	16 57 21						Masked										
		Trace Distant or Regional																
4	eP	18 11 34						Masked										
		Trace Distant or Regional																
5	i	17 22 39.9			-													
	iP	41.9																
	iS	43.3																
		I Local - 5 mi																
5	iP	17 39 24						Trace										
		I Regional																
5	iP	20 04 45			-													
	iS	46.7																
		I Local - 5 mi																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946

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
6	eP	04 33 54.5																
		Trace Distant																
6	iP	14 20 05.2				-												
	iS	07																
		I Local - 5 mi																
6	iP	19 01 18.1						Masked										
	iS	32.1																
		I Local																
6	iP	21 13 28.2																
	iS	29.2																
		I Local - 5 mi																
6	eP	22 07 16.5																
		Trace Regional																
7	iP	08 11 01.5					iP	08 11 00										
		I Distant																
		Pasadena - Kurile Is.																
7	e	12 34 14						Trace										
		Trace Distant																
		SW Pacific																
7							i	16 46.8										
								II Local (Blast?) - 8 mi										
8	iP	18 48 09.4		-	-		i?	18 48 15										
	iS	10.3					i?	16										
		II Local - 3 mi					iN	27										
							iS	28										
9	e	10 54 45.5					eP	10 50 29										
		Trace Distant																
		USSR: 24°N, 121°E -- O = 10:36:36 -- Near Formosa																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946 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
10	eP	00	31	00	1.5				iP	00	31	02												
	I Distant																							
10	iP	06	10	32						Trace														
	Trace Regional																							
11	e	10	14	46.5					e	10	14	40.5												
	Trace Distant								eE			51												
	Africa - USSR: 2°S, 27°E - Belgian Congo																							
11	eP	12	36	28.5					iP	12	36	29												
	Trace Distant																							
	Pacific																							
11	e	13	14	08					iP	13	14	10												
	Trace Distant																							
	Pacific																							
11	iP	23	00	52.5						Trace														
	i		01	06.5																				
	I Regional																							
12	e	05	14	40						Trace							eP	05	11	53				
																	e		14	25				
	Trace Regional																	Trace Far Regional						
12																	iP	05	24	50.5				
																	eS?		26	08				
																		Trace Far Regional						
12	e	14	09	09					iP	14	09	12	1.8				eP	14	09	11	1.			
	eS		12	59													iP			14.5	2.			
	I Distant																iS?		13	05	2.5			
	USSR: 5°S, 149°E -- O = 13:55.6 - New Guinea																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF September 1946 4.

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
12	iP	14	19	09.5					iP	14	19	08	.9			-	iP	14	19	13	.8	-	+	-
	I Distant																							
12	e?	15	31.5						e	15	32	12					eE	15	32	20				
	e		35	26					e		35	27					e		34	25				
	e		36	30					e		39	37					e		36	37				
	ePP		39	40													e		39	38				
	e		46	47													i		49	40	.9			
	e		49	37																				
	I Distant																							
	OGS: 25.5°N, 89°E (Northwest Bengal) O = 15:16.9; Δ = 7900 mi																							
12	iP	17	47	30.5		-	?	+19	iP	17	47	29					iP	17	47	25				
	I Distant																eS?		49	05				
	West Indies																							
12	iP	18	53	07.5				+12	iP	18	53	09					iP	18	53	11				
	iS		56	56.5																				
	I Distant																							
12									eP	19	14	22					iP	19	14	17				
																		Trace Distant						
13	e	05	04	07.5					eP	05	04	05					iP	05	04	03.5				
	Trace Distant																							
	Atlantic?																							
13																	iP	08	19	03.5				
																		Trace Distant						
13	e	16	00	28					eP	16	00	35					eP	16	00	32	1.8			
	e		05	43					eE		05	49					i			52				
	e		09	52					iE			57					e		05	39				
	I Distant								e		10	00					eS?		09	24				
	USSR: 10°N, 145°E, So Pacific, Caroline Is.																i			39				
																	e		11	19				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 194 6

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
13	iP	19	09	19	1.5			+25	iP	19	09	18					iP	19	09	22		+20	-15	+
	eSE		16	34					eS		17	33					iS		17	39				
	e		38	33					e?		38	32					iS		18	06				
		I Distant							e			44					e		38	43				
		USSR: 53°N, 159°E									II								II					
		O = 18:59.1 - So. Kamchatka																						
13	iP	19	46	31	1.5			+25	iP	19	46	36					iP	19	46	28				
	eSE		50	33					e		50	58					eS?		50	16				
		I Distant																						
		Mexico																						
13	eP	20	09	17					eP	20	09	21					eP	20	09	13				
	eSE		13	35					e		13	40					i		12	34				
		I Distant							i		22	58	1.3				eS		13	02				
		Mexico															i		22	50	1.3			
14	iP	02	57	06				-	iP	02	57	08					iP	02	57	09				
		I Distant							eS	03	07	26												
		North of New Zealand									I													
14	iP	05	19	36.5				-	iP	05	19	36					iP	05	19	39				-
		Trace Distant																						
		Kurile Is.?																						
14	e	06	19	05					eP	06	19	10					eP	06	19	02				
	eSE		23	12					iP			31					e		22	46	1.2			
		Trace Distant							eS		23	08												
		Mexico									I													
14	i	09	04	08					eP	09	04	19					iP	09	04	24.5				
	iP			16					iP			25					e			28				
	eS			53.5					eS		05	04					iP			29.5				
																	iN		05	06				
		I Regional															eS			08				
																	is			15				

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Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
14	e	20	08	35				
		Trace Distant						
		40°S, 145°E - O = 19:48.7						
		SE Australia						
14	e	22	11	02				
		Trace Distant						
15								
15								
15	e	05	29	47				
		Trace Distant						
		Near Panama						
15								
15								
15	iP	16	18	16				
		I Distant						
		West Indies						
16	O	02	30	52.0				
	iP			54.3		+32	+25?	-
	iS			55.9				
	i		31	02.5				
		II Local - 6 mi NE						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	Masked						
	Trace						
iP	02	41	14				
iP	03	45	21				
iP	05	29	47				
iP	16	08	52				
iP	16	18	15				
i			44				

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
eP	20	07	29				
e		08	38				
i		18	03	1.3			
		I					
iP	22	11	04				
		I					
iP	02	41	17.5				
	Trace Distant						
iP	03	45	34				
	Trace Distant						
iP	05	29	42				
i	08	02	05.5				
	Trace Distant						
iP	16	08	54				
eS		10	57				
	I Far Regional						
iP	16	18	11				
i		19	57				
eS		27	55				
iPE	02	31	03.1				
iP			03.4				
iSN			11.9				
iSEZ			12.2				
	Trace						

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946 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
16	e	10	03	52													eP	10	03	48				
		Trace Distant																						
16	e	12	29	42													eP	12	29	37				
	eSE		34	03													e		33	38				
		Trace Distant																						
16																	i	22	48.5			+20	-25	+
																		I Local - 10 mi NW						
17	eP	10	36	26.5													eP	10	36	28				
	eS			57													iP		36	38				
																	eS		37	22				
		Trace Regional																Trace						
17																	iP	18	29	21.5				
																	i			46.5				
																		Trace Distant						
17																	iP	19	48	37				
																		Trace Distant						
17																	iP	22	50	52.5				
																		Trace Distant						
18	iP	02	14	20	1.2	+	+?	-6	iP	02	14	23	1.8				iP	02	14	18	1.9	-	+10	-
	i			41.5					i			50					i			45				
	eSE		21	33					eS		21	25					e		19	27				
		I Distant															eS		21	02				
		CGS: 16°N, 101°W (Pacific Ocean, off S.W. Mexico)																						
		O = 2:09.2 -- Δ = 1708 mi																						
18									iP	18	50	33.5					i	18	50	33				
																	iP			35				
																	ipP		51	31				
																		I Distant						

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 194 6 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
19	iP	00 29.0										
		I Local - 2 mi										
19	e	02 20 39.1							iP	02 09 48		
										Trace Distant		
19	eP	07 04 56.5			iP	07 04 57			iP	07 04 53		
		Trace Distant										
19	iP	07 57 00.9		-545+725 +	i	07 57 11.6			iP	07 57 11.8		
25	iSN	02.0			iP	12.3			iN	19.4		
	iES	02.4			iEN	20.8			iZ	20.4		
		II Local - 3 mi			iNZ	21.5			iSEN	20.8		
		Epicenter 3 mi SE Boulder City			iE	22.7						
20									eP	00 50 00		
									eS	27		-
										Trace Regional		
20									iP	02 20 47		-
										Trace Distant		
20	eP	02 79 05			eP	02 79 04			eP	02 79 00.0		-
		Trace Distant										
20	e	05 29 02			e	05 29 24			eP	05 29 27.8		
		Trace Distant										
20	iP	05 58 27.5			e	05 58 22			iP	05 58 27.6		
		I Distant										
20					e	06 09 27			eP	06 09 27.0		
					e	58 01			eP	58 01.0		
										I Distant		

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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Time used is GCT

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
20																	i	09	09.5					
																		Trace Near Regional - 85 mi						
20																	i	09	11.5					
																		Trace Near Regional - 85 mi						
20	eP	12	07	56					eP	12	07	56					iP	12	07	9.6				+
		I Distant															i			12.5				-
20	iP	17	44	04													eN	17	44	01				
		Trace Distant																						
20									e	18	19	02.8												
										Trace Distant														
20																	e	20	52	01.7				
																	e		55	18.5				
																		Trace Local						
20	e	21	21	29													e	21	21	26.4				
		Trace Distant															e			37				
20																	eP	21	52	27				
																	eS			38.9				
																		Trace Distant						
20	iP	27	08	44													eP	27	08	27.2				
		Trace Regional															iP			27.8				
																	eS			41.1				
																	iS			41.6				
																		2 Traces Local - 6 mi						
21	eP	21	40	28.5																				
		I Distant																						

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
21	iP	22 26.9																
		I Local - 5 mi																
21													e	2? 0? 28.5				
														Trace Distant				
22	e	0? 02 17.8					eP	0? 02 15					e(P)	0? 02 15.5				
	epP	47.4					epP	40					e(S)	0? 46				
	eS	55.4					i(S)	0? 02					e	54				
							e	12.4										
		Trace Regional						Trace Distant						Trace Regional				
22	iP	05 08.0																
		I Local - 5 mi																
22	e	06 15 05					e	06 17 29.5					e	06 15 05.8				
		Trace Distant					e	75						Trace Distant				
								Trace Distant										
22													e	07 11 29.0				
													eS	44.0				
														Trace Regional - 85 mi				
22	i	07 2? 06					i(P)	07 2?.0					e	07 2? 02.2				
		Trace Distant						Trace Distant						Trace Distant				
22	eP	08 0? 26					e(P)	08 0? 14.2					iP	08 0? 27.5				
	e	71					e	21.5					iS	41.6				
	i	78					e(pP)	74.5										
		I Distant																
22	e	11 42 24											iP	11 42 27				
		Trace Distant											i	45.2				

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MONTH OF September 194 6 11.

Time used is 90W

	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	e	12	08	72.4													1	12	08	40				
		Trace Distant																						
22	e	19	27	49													1P	19	27	55.8				
																	1S		28	06.5				
		Trace																I Local - 50 mi						
22																	e	20	19	75.4				
																	e		20	12.9				
																		Trace Regional ?						
22																	1	20	51	04.5				
																	1			27.9				
																		Trace Regional						
22	e	21	01	07																				
		Trace																						
23																	e	05	17	9.9				
																		Trace						
23																	1P	06	22	72.8				
																	1S		27	15.4				
																		Trace Distant						
23																	1	18	21	70.7				
																		Trace						
23	e	21	05	47.5																				
	e		06	25+																				
	e			35																				
	e			48.5																				
		I Distant																						
23	e	22	06	20.5					e	22	06.4						e	22	06	24.7				
		Trace Distant							e			27.5												
		New Hebrides							e			54.5												

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LAKE MEAD SEISMOLOGICAL STATIONS

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MONTH OF September 1946 12.

Time used is GCT

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY								
23	eP	23	43	40				
	eS		54	07				
	eS		55	13				
	I Distant							
	CGS: 7°S, 144°E (North of New Guinea)							
	O = 23:29.8 -- Δ = 7020 miles							
24								
24	iP	15	06	2.6				
	Trace							
24								
24								
24								
25	iP	10	13	37.5		+6	?	+6
	eS		15	23				
	I Distant							
	CGS: Aftershock of Dominican Republic Earthquake -- O = 10:05.5							
25	iP	10	52	05.1		+25	+19	-
	iS			08.1				
	II Local - 13.8 mi							
26	Epicenter 6 mi E by N of Hoover Dam - Focal depth 8½ mi							
OVERTON								
	eP	23	43	52				
	eS		54	14				
	eP	05	37	15				
	Trace Regional							
	i	18		20.8				
	Trace Distant							
	eP	10	13	36.7				-
	i			41.8				
	i		14	46.7				
	iP	10	52	10.6				
	iP			10.4				
	i			16.6				
	iS			17.7				
	II Local - 35 mi							
PIERCE FERRY								
	eP	23	43	43				-
	ePP		47	45.6				
	ePPP		49	44				
	eS		54	42.8				
	e(PPS)		56	48.4				
	iP	05	37	20.6				
	i(S)			46.8				
	I Regional							
	i	15	29	26.8				
	Trace Distant							
	eP	18	21	14				
	eS			22.5				
	e	21	25	12.5				
	Trace Distant							
	e	23	19	55.6				
	Trace Distant							
	iP	10	13	32.8				
	iS		14	25.6				
	iP	10	52	11				
	i			16.8				
	iS			17.9				
	II Local - 40 mi							

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
25													iP	15 05 55.6				
														Trace Distant				
25													eP	16 02 55.5				
													eS	07 07.5				
														I Local				
26	iP	02 04 47.8		+10	+15	-	e	02 04 52.7					iP	02 04 55.7				
	iS	51					e	05 00.5					iS	05 07.1				
		I Local - 21 mi						Trace Local						I Local - 42 mi				
		NNE of Boulder City																
26	e	07 52 07.6					e	07 52 10.2					e	07 52 02				
		Trace Distant																
26													iP	10 55 59.6				
													iS	56 01.5				
														I Local				
26	iP	11 05 07.5		-	-?	-5	iP	11 05 08.8					i(P)	11 05 06				
	i	07 12.5					i	10.8					iaP	07 20				
	iS	14 41.5					iS	14 46.8					iS	14 44				
	eS	15 05																
		I Distant																
		Pasadena - 25°S, 179°E																
		h = 600 km -- Mag. 7 approx. So Pacific																
26													e	11 22 55				
														Trace Distant				
26													i	11 25 31.3				
													e(S)	33 42.8				
														Trace Distant				
26	e	12 42.7					e	12 42 35.8					e	12 42 36				
		Trace Distant																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946 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
26									e	18 20 05.5		
									e	25.6		
										I Regional		
26	iP	23 00 16.7							iP	22 59 27.8		
	iS	21							iS	44		
		I Local - 20 mi								I Local - 80 mi		
27									e	04 19 42.5		
										Trace Distant		
27					e	05 20.5			e	05 21 45.5		
					e	21 10.8			e	22 23.5		
						Trace Distant						
28	e	07 18 53.8							eP	07 18 48		
		Trace Distant										
28									eP	07 13 04		
									e	05.5		
										I Local ?		
28	iP	07 19 51.5		-25-40-62	iP	07 20 01.2			iP	07 19 58.9		
	iP	56			iP	10.8			iP	20 02		
	eS	20 30.5										
	eS	32										
		III Regional - Dilatation SW										
		Pasadena - 33°57'N, 116° 51'W, Mag. 5; So. Calif.										
28	iP	12 04 31			i	12 04 33.2			iP	12 04 28		
		Trace Distant										
28	iP	13 28 45			e	13 28 18			e	13 28 23.5		
		Trace Distant										
28	eP	14 07 10			e	14 07 12.3			e	14 07 07		
		Trace Distant										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946 15.

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	1P	19 48 37.5			e	19 48 25.5			1P	19 47 24.2		
		I Distant				Trace Distant				Trace Distant		
		USSR: 0°, 124°E Moluccas										
29	1P	00 28 47			e	00 28.7			1P	00 28 11		
	e	33 07							i	33 04.5		
	e	48										
		Trace Distant										
29	e	01 44 02			e	01 44.3			e	01 43 59.2		
		Trace Distant										
29	e	02 01 52.5			e(P)	02 02.8			e	02 02 40.3		
					i	22.1			i	48.5		
					i	57.7						
		Trace Regional				Trace Regional				Trace Regional		
29	e	03 15 16			eP	03 15 02			e	03 15 57		
	e(S)	26 15			i(PP)	14.8			iPP	19 55		
	i(S)	24			iS	26 19.5			i(S)	27 00.9		
		I Distant										
		CGS: 5°S, 154°E (Solomon Island Region										
		0 = 3:02.0 -- Δ = 6500 mi										
29	e	05 35 09										
		Trace Distant										
29	i	05 37 40.5			e	05 37 12.0			eP	05 37 18		
					e	23.1			iS	34.1		
		Trace Regional				I Local - 55 mi				I Local - 80 mi		
						Zion Park Area?						
29									1P	06 59 07.9		
									i	08.9		
										I Local - 5 mi		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF September 1946 16.

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
29	iP	08 20 04 Trace Distant			e	08 20 08			iP	08 19 59.7		
29	e	09 01 51 Trace Distant			e e	09 02.5 23.5						
29	e	09 21 48.5 I Distant USSR: 4°S, 151°E (New Guinea)							e	09 22 52 Trace Distant		
29	e	15 55 40 Trace Distant							e	15 55 41		
29	e	19 38 50 Trace Distant			e	19 39.5			e	19 38 31.8		
29									eP	20 42 18.6 Trace		
29	iP	20 57 51 I Distant			i	20 57 56.2			iP	20 58 54		
30	iP	00 26.0 Local - 5 mi										
30	iP eS	01 09 50 18 10 I Distant CGS: 12°S, 76°W (West Central Peru)		+6 -6 -12	iP eS	01 09 57.5 18 15 O = 0:59.7 - Δ = 4160 mi		+6 -7	i(P) i is i	01 09 17.8 47.8 17 17.7 27.7		
30	eP	11 49 13 Trace Distant So. Atlantic			eP	11 49 15			e	11 49.5		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . October, 1946

The stations at Boulder City, Overton and Pierce Ferry operated on routine schedules throughout October 1946.

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 Oct.	G. C. T.	Location of Epicenters
27	4	15:41:43.6	2 mi WNW from Hoover Dam
28	4	16:40:50.3	2.5 mi NNW of Hoover Dam
29	4	16:44:58.6	4 mi NNW of Hoover Dam
30	4	23:23:14.6	4 mi NNW of Hoover Dam
31	5	04:02:09.7	1.5 mi N of Hoover Dam
32	5	13:04:57.4	2.5 mi WSW of Hoover Dam
33	6	09:19:30.6	7.5 mi SSW of Hoover Dam
34	26	04:41:42.4	4 mi SE Apex
35	26	06:03:47.3	4 mi SE Apex
36	26	19:47:44.1	6 mi NE 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 Oct.	G. C. T.	Intensity and Description
	2	13:27:51.6	II at Boulder City (Felt by observer)
28	4	16:40:50.3	IV at Boulder City (Felt by several, rattled windows)
29	4	16:44:58.6	IV at Boulder City (Felt by several, rattled windows)
33	6	09:19:30.6	III at Boulder City (Felt by few)
	6	18:00:43.2	IV at Boulder City (Felt by several)

Confidential - not for publication

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 1.

Time used is GCT

BOULDER CITY

Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
1	e	03 19 42.2				
	i	20 30.2				
		Trace Regional				
1	i	04 54 17				
		Trace Distant				
		Tonga Region (P)				
1						
1	i	07 32 13.2				
		Trace Local				
1						
1	e	10 47 54				
		Trace Distant				
1	e	11 29 04.7				
	e	45.2				
	e	30 42.7				
	e	47 55.2				
		Trace Regional				
1	e	23 00 56.2				
		Trace Distant				
2	iP	04 56 19.5		+		+
	ipP	31.5				
	iS	05 04 35.5				
		I Distant				
		CGS: 51°N, 157°E; O = 04:45.9; Δ = 4285 mi				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
eN	03 20 03				
eN	41.3				
eN	05 15.8				
	Trace Distant				
eN	07 32 29				
	Trace Regional ?				
eN	10 48 00				
e(s)N	52.3				
1P	04 54 18				
i	37				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
ePZ	03 19 55.3				
i	20 06.1				
i	21.5				
iP	04 54 22.3				
eP	05 14 54.3				
e(S)	15 42.8				
	Trace Distant				
e	07 33.3				
	Trace Regional ?				
eP	09 26 07.3				
e	24.3				
	Trace Distant				
eP	10 47 58.8				
i	48 14.8				
iP	04 56 22.2				
i	58 53.0				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
2	e	05	25	41.5				
		Trace Distant						
2	iP	05	55	09.5				
		I Distant						
2	iP	06	53	28.3		+	-	+25
	ipP			38.5				
	iS	07	01	44.5				
		I Distant						
		CGS 51°N, 157°E						
		O = 06:43:03 - Δ = 4285 mi						
2	e	07	22	44.5				
		Trace Distant						
2	iP	10	52.6					
		Trace Local - 5 mi						
2	iP	12	43.2					
		Trace Local						
2	iP	13	27	51.6				
		I Local - 5 mi						
2								
2	iP	15	48	20		-	-	
	iS			36.7				
		I Local						

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	05	55	07.3				
i			09.0				
	Trace Distant						
iP	06	53	27.1				+
ipP			38.0				
i		54	36.4				
e		56	26.5				
iS	07	01	43.7				
	I Distant						
e	07	23.2					
iP	15	48	13.5				
iS			19.0				
	II Local						

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	05	55	12.2				
i			52.5				
	Trace Distant						
iP	06	53	31				+10
ipP			55				
i(PP)		55	39				
eSE	07	01	21.5				
	I Distant						
e	07	22	50.5				
e	10	47.7					
	Trace						
iP	14	32	17				
iS			18.5				
e	15	09.5					
	I Local						
iP	15	48	20				
iS			37.4				
	II Local						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 3.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
	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	23	00	56.7													e	22	28	55				
																	eP	23	00	59.5				
																	e(s)		01	05				
		Trace Distant																Trace Distant						
3									eP	04	41	24.5					eP	04	41	27				
									e			51												
										Trace Distant								Trace Distant						
3									e	06	53.5													
										Trace Distant														
3	e	12	14	04.2					e	12	14	08					e	12	14	06.5				
		Trace Distant								Trace Distant								Trace Distant						
3																	e	13	53	25.5				
																		Trace Distant						
3	eP	15	49	34													e	15	49	22.5				
		Trace Distant																						
		BCIS: 23°S, 171½°E; O = 15:36:42																						
3	iP	17	27	02.4																				
		I Local - 8 mi																						
4	iP	01	16	24.9													i	01	16	11				
		I Local - 8 mi																I Local						
4																	e	03	50	20.5				
																		Trace Distant						
4	iP	04	33	26					e	04	33	31.5					iP	04	33	30.3				
	eS			56					e(s)			40.8					iS			40.6				
		I Regional																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946

Time used is GCT

BOULDER CITY

Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	iP	05	51	32.8		+	-	+
	iS			34.8				
	I Local - 10 mi							
4	iP	14	52	16.9		+6	+19	-31
	iS			18.7				
	I Local							
4	iP	14	53	09.7		-35	+50	-
	iS			11.7				
	I Local							
4	iP	14	53	35.2		-6	+	+25
	iS		59	44.2				
	I Distant							
	COS (Aftershock of Dominican Republic Earthquake Aug. 4)							
	O = 14:45:26							
4	iP	15	13	28				-
	iS			29.7				
	II Local - 10 mi							
4	iP	15	34	14.2				
	iS			16.2				
	I Local - 10 mi							
4	iP	15	41	43.6		+9	+21	-
	iS			45.7				
27	II Local - 5.2 mi							
	Epicenter 2 mi WNW from Hoover Dam							

OVERTON

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
ePZEE	04	40	52				
Trace Distant							
eP	05	51	47.5				
e(s)E		52	02.5				
Trace Local							
eFE	14	53	33.7				
iSE		59	48.7				
eLN	15	11	03.7				
I Distant							
Obscured							
(P)	15	41	53				
i(s)			58.7				
I Local - 48 mi							

PIERCE FERRY

Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
iP	05	51	41.0				
iS			49.5				
I Local - 45 mi ?							
e	14	52	25.3				
Trace Local							
iP	14	53	29.5				
iPP		55	11.				
iPPP			46.5				
eSE		59	26.				
I Distant							
iP	15	13	36				
iS			40				
I Local - 20 mi							
e	15	33	53				
eS		34	01				
Trace Local - 40 mi							
iP	15	41	52.1				
iS		42	00.6				
I Local - 42.8 mi							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946

Time used is GCT

Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
4	BOULDER CITY	1P	15	44	44.6		-	?	+
		1S			45.8				
		I Local - 5 mi							
4		1P	16	40	50.3		+89	+170	-
25		1S			52.1				
		III Local 7 mi							
		Epicenter 2.5 mi NNW of Hoover Dam							
4		1P	16	41	34.2				-
		1(S)			36.2				
		III Local - 10 mi							
		Obscured by background							
4 - 5		12	Trace Locals - 5 mi						
4		1P	16	44	58.6		+10	+60	-
29		1S		45	00.4				
		I Local - 7 mi							
		Epicenter 4 mi NNW of Hoover Dam							
4		1P	17	07	37.7				
		1S			38.7				
		I Local - 5 mi							
4		1P	17	19	37.4		?	+46	-
		1S			39.2				
		I Local - 7 mi							
4		1P	21	49	12.7				
		1S			31.2				
		I Regional							
4		1P	22	32	03.9		?	?	-
		1S			05.7				
		I Local - 7 mi							

Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	OVERTON	e(P)1	15	45	00				
		1			09				
		I Local							
		1P	16	40	58.0		-14		
		1S		41	04.4				
		37.2 mi							
		1	16	41.7					
		III Local							
		Obscured by background							
		e	16	44.8					
		I Local							

Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
	PIERCE FERRY	1P	15	44	53				
		1S			55				
		I Local							
		1P	16	40	58.9				
		1S		41	07				
		41.5 mi							
		1P	16	41	40.5				
		1(S)			49.0				
		III Local - 40 mi							
		Obscured by background							
		1P	16	45	07.3				
		1S			15.7				
		I Local - 42 mi							
		Obscured by beginning of record							
		1P	17	19	45.9				
		eS			54.5				
		I Local							
		1P	21	49	12.3				
		1S			31.1				
		1P	22	32	12.6				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946

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	1P	23 17 03.1																			
		Trace Local																			
4	1P	23 23 14.6		+17	+30	-									1P	23 23 23.5					
30	1S	16.4													1SW	31.9					
		I Local - 7 mi														I Local - 42 mi					
		Epicenter same as No. 29																			
5	1P	01 51 52.9				-									1P	01 52 01.1					
	1S	54.6													1S	10.1					
		II Local - 10 mi																			
5	1P	02 37 59.1													1P	02 37 07.4					
	1S	38 01.1														Trace Local					
		I Local - 10 mi																			
5															e	03 35 39					
															e	53					
																Trace Distant					
5	1P	04 02 09.7		+15	+21	-									1P	04 02 18.5					
31	1S	11.4													1S	27.2					
		II Local - 6.4 mi														I Local - 41.3					
		Epicenter 1.5 mi N of Boulder Dam																			
5															1P	07 11 40.5					
																Trace Distant					
5	1P	07 35 18.9																			
		Trace Local																			
5	1P	07 45 11.1																			
	1S	13.1																			
		I Local																			
5	1P	07 45 33																			
		Trace Local																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 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
5	iP	07 59 34.8		+6	+10	-							eP	07 59 45				
	iS	36.6											eS	52				
	I Local - 7 mi NE												Approx. 47 mi					
5	iP	08 10 33.5		?	?	-												
	Trace Local																	
5	iP	08 15 38.2		+9	+15	-							iP	08 15 49.0				
	iS	40.5											iS	57.6				
	I Local - 11 mi NE												I Local					
5	iP	09 15 37				?							1	09 15 45.3				
	iS	38.5												Trace Local				
	I Local - 8 mi																	
5	e	09 27 39											eP	09 27 37				
	Trace Distant												Trace Distant					
5	iP	10 07 33.5		-12	-10	+							iP	10 07 42.1				
	iS	34.9											i(S)	51.3				
	I Local - 4.7 mi NE												I Local					
5													e	10 59 07.5				
													i	51.5				
													Trace Distant					
5	iP	11 16 27.5																
	Trace Local																	
5	iP	13 04 57.4		+5	+13	-							iP	13 05 06.4				
32	iS	59.3											iS	15.1				
	I Local																	
	Epicenter WSW of Boulder Dam - 2.8 mi																	
5	iP	17 58 51.5											e	17 58 36.5				
	Trace Distant												e	48.5				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 8.

Time used is GCT

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	17 59 59							e	18 00 08		
	iS	18 00 01										
		I Local - 10 mi								Trace Local		
5	iP	23 01 53.7							eP	23 01 56		
	iS	02 07.2							e	02 37		
		I Regional										
6	eP	02 19 29.8							iP	02 19 33		
									e	20 06		
		Trace Distant								Trace Distant		
6	iP	09 19 30.6		-40+21 +	eP	09 19 40.8			iP	09 19 39.9		
33	iS	32.3			e(s)	46.8			iS	48.5		
		II Local - 6.5 mi				46.8 mi				44.2 mi		
		Epicenter 7.8 mi SSW of Boulder Dam										
6	iP	10 28 09										
		Trace Local										
6	iP	18 00 43.2		? ? -	e	18 01.2			iP	18 00 52.2		
	iS	45.8				Obscured			iS	01 00.9		
		III Local								I Local		
6	e	18 15 42							e(P)	18 13 56.5		
									e	15 59		
									eL	17 45.5		
		Trace Distant								Trace Distant		
6									e	18 36 57.5		
										Trace Distant		
6	iP	19 45 59							e	19 46 09.5		
		I Local										
6									eP	20 09 16.5		
										Trace Distant		

International Seismological Centre

BOULDER CITY

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	e(P)	22	46	21				
		Trace Distant						
7	e	07	05	11.5				
		Trace Distant						
7	iP	20	48	19.9				
	iS			20.9				
		I Local - 5 mi						
8	e	01	22	18				
8								
8								
8	iPZ	14	08	09		?	-12	-12
	epPZ		10	22.3				
	e(S)E		17	41.3				
	eSE		18	07.8				
	iSZ			08.3				
		I Distant						
		(P) 25°S, 178°E; O = 13:56:25						
		h = 670 km						
8	e	23	16	48				
		Trace Distant						
9	e	05	36	02.5				
		Trace Distant						

OVERTON

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6								
7								
7								
8	e(P)N	01	21	58.5				
		Trace Distant						
8	eN	05	47	26				
		Trace Distant						
8	eP	07	36	25.4				
	e			35.4				
		Trace Distant						
8	iP	14	08	13				
	e		10	25.5				
	e(S)E		17	45				
	eSN		18	14.5				
	eSE			15				
	eSZ			16.5				
8								
9	eP	05	36	32				
		I Distant						

PIERCE FERRY

	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
6	e	22	46	39.5				
		Trace						
7	eP	07	05	16.5				
	i			22.5				
7								
8	e	01	21	55				
	eE			56				
8	e	05	47	48				
8	eE	07	36	43				
		Trace						
8	iP	14	08	12				
	e(pP)		10	27				
	eZ		11	33				
	e(S)E		17	41.5				
	iSEE		18	13.5				
	eSZ			14.5				
	eE		21	26.5				
8	iP	23	16	46				
9	eP	05	36	32				
	iP			41				
	e		39	56				
		I Distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946

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
9									e	09	03	33.5					eP	09	03	22.4				
										Trace Distant														
9																	eP	18	41	42.3				
																		Trace Distant ?						
9																	e	20	29	16.8				
																		Trace Distant ?						
9	iP	20	37	33.5					eP	20	37	34.5					iP	20	37	31.5				
		I Distant															e(s)		47	25.5				
10	e	04	36	31.5					e	04	36	22					e	04	36	42				
	eP			38					e		40	10					iP			55				
	e		40	14.5													eN		40	04				
	e(s)E		44	33.5													i			47.5				
		I Distant															i(s)		47	12				
10	eP	09	34	02.5					eP	09	34	03					iP	09	35	00.5				
		Trace Distant																						
10	i	12	29	02													eP	12	29	08.7				
	iP			04																				
	iS			05														Trace Local						
	I Local - 5 mi																							
11	eP	00	27	17.5					iP	00	27	18					eP	00	27	09				
		Trace Distant															i			23.5				
11	eP	11	51	45.5					eP	11	51	54					iP	11	51	42				
									e		53	13												
		Trace Distant								I Distant								I Distant						
11																	e(P)	19	06	46.5				
																	e(S)		07	04				
																		Trace Regional						

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
12									e	02 19 53.5		
										Trace Distant		
12									e	03 04 10		
										Trace Distant		
12	eP	03 37 20			eP	03 36 23			eP	03 37 21		
	i	27							i	29		
									e	42 30		
		Trace Distant							e(S)	43 28.5		
12	e	04 42 33.5							e	04 41 50.5		
									i	42 02.5		
		Trace Distant								Trace Distant		
12									e	06 04 27.5		
										Trace Distant		
12									i	12 05 50.5		
										Trace Distant		
12									e	16 14 32		
										Trace Distant		
12	iP	19 00 21							iP	19 00 23		
	e	02 23							e(pP)	02 26		
		Trace Distant								Trace Distant		
		Tonga Region (P) h = 550 km										
12	iP	19 03 54.5							e(P)	19 04 26		
	i(S)	04 08.5							e(S)	43		
		Trace Regional										
13	e	00 11 48							e	00 11 48		
		Trace Distant										

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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	
13	e	00 57 55													i	00 57 55.5					
		Trace Distant																			
13	e	03 02 36													e	03 02 39					
		Trace Distant																			
13	e	03 12 18													e	03 12 16.5					
		Trace Distant																			
13															e	14 08 37					
																Trace Distant					
13															e	21 42 37					
																Trace Distant					
13	iP	23 24 24.5			+6	-12	-56		Obscured						iP	23 24 23					
	e	33 45													i	37					
		I Distant													i	25 16.5					
		BCIS: 24°S, 66°W;													e	26 48.5					
		O = 23:13.0; h = 200 km																			
14															e(P)	04 30 05					
															e(S)	15					
																Trace Regional					
14	eP	04 57 35						e	04 56 53						e	04 57 39					
															e	53					
		I Distant													e	58 37					
															e	05 00 17					
14	i	10 40 04						e	10 39 31						e	10 38 10					
	eS	44													iP	40 20					
		Trace Regional													e(S)	41 05.5					

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
14	e	10	52	43.5						Not Recording							e	10	52	27				
	e		53	41													iP			37.5				
		Trace Regional															1			47				
																	e		53	27				
14	iP	17	19	05.5																				
	iS			08.5																				
		I Local - 15 mi																						
14																	e	22	28	54.5				
																	Trace Regional							
14	e	22	59	34.5													e	22	59	36				
		Trace Distant																						
14	e	23	09	33.5													e	23	09	36.5				
		Trace Distant																						
14																	e	23	28	50.5				
																	i		29	46				
																	Trace Distant							
15	iP	05	13	36																				
		Trace Local																						
15																	e	06	46	04.5				
																	Trace Distant							
15	eP	06	52	01													iP	06	52	05				
	i(SP)			41.5													i(SP)			37				
	e(pPP)		56	19													e		54	34.5				
		I Distant															e(PP)		55	41				
		(P) 16°S, 168°E; O = 06:39:12; h = 120 km															e(pPP)		56	20.5				
15	eP	07	58	37													e	07	58	38.5				
		Trace Distant															iP			41				
		Possibly near Apia (P)															e		59	47.5				
																	e	08	05	49.5				

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MONTH OF October 1946 14.

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
15	e	12	18	38						Not recording							eP	12	18	42.5				
		Trace Distant																						
		Near Apia (P)																						
15	e	14	17	24.5													e	14	14	06				
		Trace Distant															e		17	36.5				
15	e	15	00	01.5													eP	15	00	09.5				
		Trace Distant																						
15																	iP	15	03	35.1				
																	iS			36.1				
																		I Local						
15																	i	20	49	45				
																		Trace Distant						
16	iP	03	40	29.6		?	?	?	eP	03	40	43					iP	03	40	33.9				
	iS			30.4					e(S)			45					iS			41.1				
		I Local							e			49.5												
										Trace														
16																	e	06	16	00				
																		Trace Distant						
16	iP	11	40.1																					
		Trace Local																						
16	iP	13	45	17.2																				
	iS			18.6																				
		I Local - 7 mi																						
17																	iP	01	01	47.6		?	?	+
																	iS			48.6				
																		I Local						
17	i	06	14	11.5					i	06	14	42.5					i	06	14	44				
		Trace Distant																						

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MONTH OF October 1946 15.

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
17									e	09	07	59.5					e	09	07	57				
									1		08	08					1P		08	09.5				
									e			50					e		09	21.5				
									Trace Regional															
17	e	12	40	16					e	12	40	13					eP	12	40	10				
	e		41	02.5					e			41.5					1P			22.5				
		Trace Regional							e		41	03					1		41	15.5				
17	eP	13	59	12					eP	13	59	09					eP	13	59	15.5				
									1S			20.5					eS			34.2				
									1			59												
		Trace Regional								Trace Regional								I Regional						
17									1	20	10	06					eP	20	10	16.5				
																	eS			33				
									Trace Regional								1			42				
17									e	20	48	21					e	20	48	45.5				
									Trace Regional															
17	e	23	33	01													e	23	33	04				
	e			36													1			21				
	Trace Regional																							
18									e	00	39	22.5					e	00	39	18.5				
									Trace								Trace Distant							
18	e	00	57	30					e	00	57	28.5					1P	00	57	30				
	Trace Distant																e			41				
18																	e	02	51	10				
																	Trace Distant							
18																	e	11	00	21				
																	Trace Local							

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 194 6

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
	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																	e	11	55	53				
																	Trace Distant							
18	e	14	25	55.5																				
		Trace Local																						
18																	1P	19	01	53				
																	1S		02	09.5				
																	Trace Regional							
18																	e	19	06	03				
																	Trace Distant							
18	1P	20	51	29					1P	20	51	28.5					1P	20	51	26.5				
									e		53	02.5					1			35				
		Trace Distant															e		56	08.5				
18											-						i	22	36	02.3				
																	e			14				
																	e		39	49				
																			Trace Distant					
19									e	00	25.5						eP	00	24	57.5				
											-						eS		25	14.5				
											Trace Regional													
19									e	10	02	10												
											Trace Distant ?													
19	1P	14	29	45					1P	14	29	44					1P	14	29	47				
									i			53					i			57				
									e		32	00					e		30	33				
		Trace Distant															e		31	33.5				
20	e	00	02	26							-						e	00	04	05				
		Trace Regional																						

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MONTH OF October 1946 17.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
		Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
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
20	eP	04	00	00					e	04	00.0	covered					eP	04	00	04				
									i(s)			42					i			10.5				
		Trace Regional															i(s)			47.5				
20																	e	08	32	52.5				
																		Trace Local						
20	e	11	39	50					e	11	39	46.5					e	11	39	21.5				
		Trace Distant																						
20											-						eP	19	36	06.5				
																	i			32				
																		Trace Regional						
21	iP	00	16	10.5					i	00	16	16					iP	00	16	14				
		Trace Distant																						
		Felt at Apia (P)																						
21	i	06	57	25.5					iP	06	57	29					eP	06	57	23				
		Trace Distant																						
21																	eP	10	31	11				
																	i(s)			13.5				
																		Trace Regional						
21																	e	11	07	23				
																		Trace Distant						
21	eP	13	52	51.1					eP	13	52	24					e	13	52	43				
	e		53	43					i			32					iP			48				
	e		55	00					i		54	42.5					i		53	17.5				
																	e		54	23				
																	e(L)	14	01.5					
		Trace Distant																I Distant						
21	i	19	04	52							-						i	19	05	24.5				
		Trace Regional															i			34.5				

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Time used is GCT

	BOULDER CITY								OVERTON								PIERCE FERRY							
	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	i	19	54	54													iP	19	56	04				
																	i			13.5				
																	e(s)			47.5				
		Trace Regional															i			57.5				
21	e	22	04	55						-							e	22	05	13.5				
		Trace Regional																						
21	iP	23	34	35																				
	i(s)			49																				
		Trace Regional																						
22	e	04	04	04					e	04	04	06					e	04	03	59.5				
		Trace Distant																						
22	iP	10	12	50					iP	10	12	52.5					iP	10	12	52.5				
	i		13	06					i			56					i		13	14				
	i			40					i		13	42					i			45.5				
	ipP			44.5					ipP		14	24.5					ipP			46.5				
	iSP		14	05					e		15	07					iSP		14	26				
	e(PP)		16	47					i(SKS)		23	29.5					ePP		17	06.5				
	eSKS		23	09					e(S)		24	59					iSKS		23	11				
	e(S)			34					e		30	31					e(S)		24	04				
	e		30	30 - 2 shocks ?													e		30	25) 2 shocks ?				
		I Distant															e		38	31.5)				
		BGIS: 15°S, 167½°E; O = 10:00.5; h = 150 to 200 km																						
		(P) h = 210 km																						
22	e	11	42	36													e	11	42	38				
		Trace Distant																	Trace					
22																	e	13	27	14				
																			Trace Distant					
22	iP	13	20	03.6		-50+70	+																	
	iS			04.8																				
		I Local																						

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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	iP	17	40	01					iP	17	40	04.5					iP	17	40	04				
	i			14						Covered							i			17.5				
		I Distant															e		41	43.5				
		BCIS: 18½°S, 168½°E; O = 17:27:00																						
22	e	21	04	28.5					i	21	04	39.5					eP	21	03	57				
																	iP		04	06				
																	is			45.5				
																	e		05	00.5				
		Trace Regional																I Regional						
22	eP	21	23	32													eP	21	23	28				
		Trace Distant															e		25	09.5				
23																	e	03	31	27				
																		Trace Regional						
23																	e	05	16	14				
																		Trace Regional						
23	e	07	13	15.5					iP	07	13	24					eP	07	13	17				
	eS			51.5					i			28					iP			27.5				
									i			57					e(S)		14	05				
									is		14	05.5					is			12				
		Trace Regional							i			19												
23	e	09	05	06					i	09	05	14					e	09	05	17				
		Trace Regional							e			55												
23									(e)	09	40	42												
										Trace Distant ?														
23																	e	17	56	00.5				
																	i			03.5				
																		Trace Regional						
23									e	18	16	14					e	18	16	07.5				
																		Trace Regional						

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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
23													e	22 28 37				
														Trace Regional				
23	i	23 32 53						-					iP	23 32 42				
													i(S)	59				
		Trace Regional												Trace Regional				
24	iP	00 27 03.8				?												
	iS	05.0																
		I Local - 10 mi																
24	eP	01 11 35						-					e(P)	01 11 43				
	eS	12 11											i	12 18				
													i(S)	25.5				
		Trace Regional											i	35.5				
24	e	02 41 50					e	02 41 53.5					e	02 41 45.5				
		Trace Distant																
24	e	05 43 53											e	05 43 49.5				
		Trace Distant																
24	e	07 55 52.5											e	07 55 51				
	i	56 31.5											i(S)	56 48.5				
		Trace Regional											i	57 01.5				
24	iP	08 49 36					iP	08 49 40.5					iP	08 49 39.5				
	ipP	51 36					ipP	51 41.0					ipP	51 38				
		Trace Distant											e	53 33				
		Konga Region (P) h = 550 km																
24							e	10 18 40.0					i	10 18 19.5				
								Trace Distant										
24	iP	18 44 03					e	18 44 07.5					e	18 44 06				
		Trace Distant					i	48					i	34				

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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
24									e	20	27	36					e	20	27	31				
									Trace Distant															
25	iP	04	35	40.2		?	?	-	i	04	35	55.5					eP	04	35	46				
	iS			43.4					i		36	01.5					iS			53.5				
		I Local - 15 mi																						
25	e	04	49	57.5					e	04	49	59.5					e	04	49	55.5				
		Trace Distant																						
25	e	11	10	14.5					i	11	10	19.5					i	11	10	13				
		Trace Distant																						
25																	iP	12	01	39.2				
																	iS			39.6				
																		II Local						
25																	eP	12	24	22				
																	eS			40				
																	i			45				
																		Trace Regional						
25	e	16	22	39.5					i	16	22	51					e(P)	16	22	46.5				
																	i			53.5				
																	iS		23	30				
		Trace Regional															e			47.5				
25	e	15	52	11.5													i	15	52	08.5				
		Trace Distant																						
25	i	15	54	48.5													e	15	55	00				
																	iP			02				
																	i			40				
																	iS			45				
		Trace Regional															i		56	02				

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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
25	e	20	14	59							-						e	20	15	55.5				
	e		15	11																				
	Trace Distant																							
25	iP	22	00	08.5							-						iP	22	00	12				
	ipP			32													ipP			34.5				
	eS		06	09													i		02	21				
	I Distant																							
	(P) 51°N, 156°E; 0 = 21:50.2; h = 150 km																							
25	eP	22	29	34					e	22	29	51					iP	22	29	44.5				
	iP			45							-						i			49				
	i		30	19.5																				
	I Distant																							
25																	e(P)	23	18	00				
																	i			43				
																	i		19	48				
																	i		20	35				
																	Seismic? Regional							
25	e	23	35	29.5													eP	23	34	50				
	Trace Regional																e(S)		35	06.5				
26	iP	00	00	53.4																				
	iS			54.4																				
	I Local - 5 mi																							
26	e	00	39	14					e	00	39	53.5					e	00	39	44.5				
	iP			48					e		40	57.5					i			48				
	i		40	52													e		40	50				
	I Distant																e(S)		46	31.5				
	(P) 57°S, 27°W; 0 = 00:20.9																i		48	44				
26	i	00	48	17					i	00	49	02.5												
	Trace Distant																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 — Time used is GCT

	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
34	26	iP	04 41 42.4		-1	+11	-	iP	04 41 43.8					iP	04 41 49.2				
		iS	46.9					i(s)E	49.3					iS	58.3				
								iSNE	49.8										
		II Local - 22.2 mi N						28 mi						49 mi W					
								Epicenter 4 mi SE Apex											
35	26	iP	06 03 47.3		-7	+26	-	iP	06 03 48.8					iP	06 03 54.1				
		iS	51.8					e(s)NE	04 54.5					iSN	04 03.1				
								eSE	54.8					iSNE	03.4				
		II Local - 22.2 mi W of N						28 mi						49 mi W					
								Epicenter same as No. 34											
	26	e	11 04 19.0					e	11 04 37					e	11 04 20.5				
			Trace Distant											e	07 15.5				
	26	iP	14 06 47.9																
		iS	49.4																
		Trace Local																	
	26	iP	19 05 38											eP	19 05 41				
		iS	51											eS	06 26				
		Trace Regional																	
36	26	iP	19 47 44.1		+1	+1	-	e(P)	19 47 49.1					iP	19 47 49.8				
		iS	46.9					iS	48 08					iS	57.2				
		I Local - 12.6 mi						32.5 mi						36 mi					
								Epicenter 6 mi NE Hoover Dam											
	26													e(P)	20 28 18				
														e(S)	29 06				
															Trace Regional				
	26								No Time Control					i	22 39 05.5				
															Trace Regional				
	28	e	08 36 38.5					e	08 37 04					e	08 36 35				
			Trace Distant																

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946

Time used is GCT

No.	Date	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
BOULDER CITY									
	28								
	28	e	11	31	23				
			Trace Distant						
	28	iP	14	10	20				
			Trace Distant						
	28	e	21	54	54				
			Trace Distant						
	28	iP	22	03	27				
		eS		04	17				
			I Regional						
	28								
	29								
	29	e	03	35	23				
			Trace Distant						
	29	iP	04	18	07.8				
		iS			11.3				
			I Local						
	29								
	29	eP	11	35	40				
		eS			18				
			I Regional						
OVERTON									
		iP	09	11	08				
			Trace Regional						
		iP	11	32	19.5				
		iP	14	11	?				
		iP	22	05	?				
		iS			53?				
			No Time Control						
		e	00	03	07?				
			Trace Distant						
		e	03	36	20.5?				
		eP	04	19	36?				
PIERCE FERRY									
		eP	09	10	22				
		iP	11	30	51.5				
		iP	14	10	23.5				
		e		13	20.5				
		e	21	54	58				
		iP	22	03	34.5				
		i			44.5				
		iS		04	31				
		e	22	28	14				
			Trace Regional						
		e	00	01	55.5				
		e	03	35	13.5				
		i			19				
		i			25				
		eP	04	18	14.1				
		iS			21				
		e(S)	09	30	34				
			Trace Local						
		iP	11	35	49				
		i			59				
		iS		36	40.5				
		iL			59				

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 — 25.

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
29	eP	11	52	11					eP	11	53	35?					eP	11	52	17				
									i			53?												
		Trace Distant								No Time Control														
29	eP	11	54	45					eP	11	56	18?					i	11	55	36.5				
	eS		55	20					i			55?												
	I Regional																							
29	e	14	59	42.5													eP	15	00	18				
																	eS			35				
	Trace Regional																Trace Regional							
29																	eP	22	07	34				
																	Trace Regional							
30																	e	03	24	41.5				
																	Trace Distant							
30	e	05	51	21.5						No Time Control							i	05	51	23.5				
	Trace Distant																							
30	iP	07	54	59.5					iP	07	58	59.5?					eP	07	55	01				
	i		55	20.					i		59	15?					iP			02				
	eS	08	00	55					eS	08	05	00?					i(PP)			57				
	CGS: 54°N, 164°W; O = 07:47.6 2700 mi																i		57	28.5				
																	eS	08	00	56				
																	e		02	10				
																	eL		06.0					
30	iP	09	36	03.5					eP	09	40	10.2?					iP	09	36	08				
	Trace Distant																i			14.5				
30	iP	09	57	42.8																				
	iS			46.8																				
	Trace Local																							

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LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF October 1946 26.

Time used is GCT

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
30	iP	14 23 11				
		Trace Distant Kamchatka? (?)				
30						
30	e	23 36 05				
		Trace Regional				
31	e	03 13 19				
		Trace Regional				
31	iP	04 27 03.5				
		Trace Distant				
31	iP	11 43 19				
	iS	20.3				
		I Local				
31	eP	11 52 15				
		Trace Distant				
31						
31	iP	20 03 42				
		Trace Regional				

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON					
eP	14 27 18?				
e	15 31 22?				
	No Time Control				

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY					
iP	14 23 13				
i	20.5				
e	15 27 13.5				
	Trace Distant				
eP	23 36 26				
eS	37 09.5				
eP	03 13 27				
i	35.5				
eS	14 19.5				
iP	04 27 06.5				
i	25.5				
	Trace				
iP	11 52 17				
i	35				
(e)	14 24 15.5				
	Trace Distant				
iP	20 03 46				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . November, 1946

The stations at Boulder City, Overton and Pierce Ferry operated on routine schedules throughout November, 1946.

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
37	4	07:14:28.6	13 mi SSW of Hoover Dam
38	11	13:40:42.1	8.5 mi SE of Hoover Dam
39	18	15:31:38.3	7 mi SW of Hoover Dam

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

No.	Date Nov.	G. C. T.	Intensity and Description
37	4	07:14:28.6	IV at Boulder City (Felt by several, rattled windows)
39	18	15:31:38.3	IV at Boulder City (Felt by several, rattled windows)

Confidential - not for publication

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1946

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	03	52	14.4						No Time Control														
	1S			15.4																				
	Trace Local																							
																	eP	11	22	40				
1	eP	11	22	37													1P			41				
	1P			38													1			44.5				
	1			56													i(PP)		23	02				
	e(s)		29	17													i(PPP)		24	21.5				
	CGS: 52°N, 174°W; O = 11:14.4;								△ =	3075 mi							i		25	35				
	I Distant																e		26	30.5				
																	e(s)		29	22				
1	eP	11	38	03													1P	11	37	39.5				
	i			16													i			51.5				
	Trace Distant Aftershock																i		38	31.5				
																	e	11	50	52.5				
1	e	11	51	15.5													i		51	02.5				
	i			27													i			21.5				
	Trace Distant Aftershock																							
																	e	11	56	40.5				
1																	i			51.5				
																	Trace Distant Aftershock							
																	e	12	16	54				
1	e	12	14	39													e		17	23				
	e		16	58.5													i		18	32				
	e		18	28.5													i			44				
	e		30	01													e		29	59.5				
	Trace Distant Aftershock																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194 6 2.

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	e	12 50 02			No Time Control				e	12 49 56.5		
		Trace Distant							i	51 22.5		
		Aftershock (?)							i	42		
1	eP	13 25 21							eP	13 25 28.5		
		Trace Distant							e	39.5		
		Aftershock							e	30 05.5		
1	e(P)	13 51 18							e(P)	13 51 23		
		Trace Distant										
		Aftershock										
1	eP	15 40 51							e	15 40 48.5		
		Trace Distant										
		Aftershock										
1									e	17 25 06.5		
										Trace Distant		
1	eP	17 36 02							iP	17 36 30.2		
	e	23							is	40.3		
		Trace Regional										
1									e	19 12 37		
										Trace Distant		
1									eP	19 35 08		
										Trace		
1	eP	19 45 05										
		Trace Distant										
		Aftershock										
1	eP	20 22 33.5							iP	20 22 37		
	iP	34.5							ipP	23 00		
	ipP	56.5							e	52.5		
		Trace Distant							e	26 16		
		Solomon Is. BCIS: 10°S, 161.5°E; O = 20:09.5								I Distant		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF November 1946

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										No Time Control							e	20	34	18.5				
																		Trace Distant						
1																	e	21	00	32.5				
																		Trace Distant						
1																	e	21	33	05.5				
																		Trace Distant						
1	iP	22	52	23.5																				
	iS			24.5																				
	I Local - 5 mi																							
1																	e	23	01	59.5				
																		Trace Distant						
1																	e	23	34	07.5				
																		Trace Distant						
1																	eP	23	34	40.5				
																	eS			56.5				
																		Trace Regional						
2																	i	01	26	31.5				
																		Trace Distant						
2																	e	14	22	32.5				
																	i		23	27				
																		Trace Distant						
2	iP	15	23	15																				
	iS			16																				
	I Local - 5 mi																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **November** 194 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
2	eP	18	42	29						No Time Control							eP	18	42	30.5				
	i		43	07.5													i		43	03.5				
	i(PPP)		46	23.5													iPPP		45	49.5				
	i		47	15													i		46	43.5				
	i		48	04.5													e(S)		50	31.5				
	e	19	02	57													eL	19	06	49.5				
	eL		06	50																				
	I Distant																							
	CGS: 41°N, 76°E; 0 = 18:28.4																							
3	eP	05	05	51													eP	05	05	58.5				
																	i		06	07.5				
	Trace Distant																i			13.5				
3	e	10	33	15													eP	10	33	01				
	Trace Regional																eS			17				
3	iP	13	25	49					iP	13	23	33.5?					iP	13	25	56.5				
	Trace Distant																							
3	e	14	07	14					e	14	04	30.7					e	14	07	16				
	Trace Distant																							
3																	e	18	59	49.5				
																	i	19	00	25.5				
																	Trace Distant							
3	e	19	46	04.5													e	19	45	59.5				
	e(PP)		49	59.5													i		46	04.5				
	Trace Distant																e(PP)		49	49.5				
	CGS: 0°, 16°W; 0 - 19:32.5																							
3	i(P)	23	31	52.5													i(P)	23	31	49.5				
	Trace Distant																							

International Seismological Centre

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
BOULDER CITY						
4	iP	07 14 28.6		-20	+40	+
37	iS	30.9				
	II Local - 10 mi					
	Felt in Boulder City					
4	iP	07 16 16.2				
	iS	16.5				
	Trace Local					
4						
4						
4	ePP	22 01 50.5				
	i	02 04				
	iPP	06 09.5				
	i	25				
	e(PPS)	15 18				
	i	17 09				
	ePKKP	39				
	e	25 57				
	I Distant					
	CGS: 40°N, 53°E; O = 21:47:47					
4	e	23 57 48				
	Trace Distant					
5	iP	07 11 13				
	Trace Distant					
	(P) South America					

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
OVERTON						
	No Time Control					
	eP	07 14 16†				
	eS	25.7†				
	S-P = 9.7 sec.					
	51.6 mi					
	Epicenter 13 miles SSW of Hoover Dam					

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
PIERCE FERRY						
	eP	07 14 38.5				
	eS	48.5				
	49 mi					
	e	14 18 56.5				
	Trace Distant					
	e	20 10 07.5				
	Trace Distant					
	eP	22 01 49.5				
	i	03.5				
	i	02 29.5				
	iPP	06 07				
	e(PS)	14 58.5				
	e(PPS)	15 25.5				
	e	16 19.5				
	ePKKP	17 39.5				
	e	25 49.5				
	e	23 57 42.5				
	i	58 24.5				
	e	00 00 45.5				
	iP	07 11 10.5				

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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								
5	iP	13	00	14.4				
	iS			16.1				
	II Local - 10 mi							
5	iP	22	52	13				
	I Distant							
	(P) Japan?							
6	eP	07	58	22.7				
	eS			39.4				
	Trace Regional							
6	eP	20	14	51				
	ePKKP		26	00				
	Trace Distant							
	BCIS: 35°N, 80°E; O = 19:56.5							
7	e	05	55	02				
	Trace Distant							
7	i	05	58	23				
	Trace Distant							
7	e	09	54	08				
	Trace Distant							
7								
7	iP	15	03	47.6				
	iS			49.1				
	I Local - 8 mi							
OVERTON								
	No Time Control							
6	iP	07	58	02.2?				
	i			13?				
PIERCE FERRY								
	iP	22	52	16.5				
	i		53	04.5				
	e(PP)		55	41				
6	eP	07	59	11.9		+	+	+
	e			20				
6	eP	20	14	50				
	ePKKP		26	00				
	e	05	52	49				
	i			54				
	i		54	14				
	iP	05	57	56				
	e	09	53	33				
	iP	14	01	11.5				
	Trace Distant							

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MONTH OF November 1946 7.

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	i	18 14 35						No Time Control							iP	18 14 00					
		Trace Distant																			
		BCIS: 41°50'N, 72°18'E; O = 18:06.0																			
		Aftershock of August 4, 17 h																			
7	eP	21 11 12													eP	21 10 49					
	eS	45													eP	56					
		I Regional													i	11 37					
8	i	00 35 47													iP	00 35 20					
		Trace Distant																			
8	i	05 29 47													iP	05 29 13.5					
		I Distant																			
8	e	22 01 56.5													e	22 01 51.5					
		Trace Distant																			
9	iP	04 48 08																			
	iS	10																			
		Trace Local																			
9								e	08 52 06.5						e	08 52 08.5					
									Trace Distant												
9	e	17 58 56													e	17 58 50.5					
		Trace Distant																			
9	eP	21 52 10						e	21 52 14						iP	21 52 18					
	epP	40						epP	40.5						ipP	40					
		Trace Distant																			
		Near Apia																			
10	iP	05 13 09						e	05 13 23.4						e	05 13 06.5					
	eS	49						i	14 11.5						i(S)	14 03					
		I Regional																			

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
10					e(P)	07 20 00.5			eP	07 19 59		
					iS	06			iS	20 04.7		
						Trace Local						
10	iP	13 06 51			iP	13 06 53			iP	13 06 49.5		
	ipP	07 21			ipP	07 26.5			ipP	07 25		
	e	16 42										
	eS	17 36										
		I Distant										
		(P) So. America										
10	iP	17 52 35			iP	17 52 31.5			eP	17 52 32.5		
	i	39			i	56 29.5			iP	35.5		
	i	53 28				Obscured			i	55 34		
	e(S)	18 00 43							i	56 29		
	eP'P'	22 14							e(S)	18 00 56		
		I Distant							eP'P'	22 06		
		CGS: 9°S, 77.5°W										
10	iP	19 00 21			iP	19 00 34			iP	19 00 18		
		Trace Distant			e	02 07			e	09 37.5		
		Aftershock										
10									e	19 41 14		
										Trace Distant		
10	iP	20 00 37			iP	20 00 40			e	20 01 35		
		Trace Distant										
		Aftershock										
10	iP	21 12 17.5			i	21 12 25.5			iP	21 12 15.5		
		Trace Distant										
		Aftershock										
10	iP	22 12 13.5			iP	22 12 26			iP	22 12 21.5		
		Trace Distant										
		Aftershock										

International Seismological Centre

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	23 22 38			iP	23 22 40			iP	23 22 41.5		
		Trace Distant (P) Japan?										
11	e	01 05 04			i	01 05 13.5			e	01 05 02		
		Trace Distant										
11	e	06 55 01			e	06 55 04			e	06 55 04		
		Trace Distant										
11	iP	13 40 42.1		+50 -20 -	iP	13 40 50.4			iP	13 40 48.6		
	iS	44.7			iS	59			iS	55.8		
		II Local - 11.5 mi				44 mi				38.5 mi		
					Epicenter 8.5 mi SE of Hoover Dam							
11									e	15 42 28.5		
										Trace Distant		
11	iP	21 07 09.5			iP	21 07 09.5			eP	21 07 13		
					i	22.5			iP	25		
		I Distant			i	58			i	58.5		
11	iP	23 00 32			iP	23 00 36			iP	23 00 35		
					e	01 14			i	01 11.5		
		Trace Distant							e	26 56		
12	e	04 42 45			e	04 42 49			e	04 42 32.5		
		Trace Distant							i	58.5		
12	iP	06 03 41			eP	06 03 41			eP	06 03 44.5		
	i	57			i	57			iP	46.5		
	eS	09 39			e	09 43.5			i	04 01.5		
		I Distant							e(S)	09 45.5		
		USA: 53°N, 163.5°W; O = 05:56.22										

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1946 — 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	iP	06 44 40			eP	06 44 41			iP	06 44 36.5		
	Trace Distant											
12					iP	11 34 16.5						
					Trace Regional							
12	iP	14 39 38			iP	14 39 34			iP	14 39 40		
	I Distant				e	43 31.5			e	40 21		
	(P) Vancouver Is. Region?								e(S)	43 03.5		
12	iP	17 40 43			eP	17 40 45			iP	17 40 47		
	eS	50 43			iP	48			i	59.5		
	e	51 03							i(PP)	43 26.5		
	Trace Distant								i	47 03		
	CGS: 21°S, 173°W; O = 17:28.7								eS	50 51.5		
12					e	17 59 38			e	17 59 21.5		
					Trace Distant							
12	e	18 07 50			e	18 07 48			eP	18 07 39.5		
	Trace Distant											
13	iP	04 09 18.5			iP	04 09 22			iP	04 09 21.5		
	Trace Distant								i	41.5		
13	iP	20 19 16.6										
	iS	17.9										
	I Local											
13	iP	23 32 15.4			e	23 32 42			e	23 32 47		
	iS	29.6							e(S)	33 04		
	I Local											
14	e	01 16 39			e	01 16 51			e	01 16 45		
	Trace Distant											
14	e	04 30 12			e	04 29 06			e	04 29 01		
	Trace Distant								e	53		

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
14	iP	05	57	50.1		+	+	-	iP	05	57	41.2		+	+	-	iP	05	57	41.1		+	+	-
	i(S)			51.2													iS			47.3				
		I Local																						
14																	i	08	05	38.5				
																		Trace Distant						
14	iP	11	42	47.5					iP	11	42	45.5					iP	11	42	42.5				
	e		43	03													i		43	36.5				
		Trace Distant																						
		(P) Central America?																						
14									eP	19	00	59.5					e(P)	19	01	29.7				
									eS		01	04.5					iS			35.7				
										Trace Local														
15	e	02	26	33					e	02	26	15					e	02	26	31.5				
		Trace Distant															e		33	01.5				
15	e	06	50	42.5													e	06	49	32.5				
		Trace Distant																						
15									e	08	04	34.5					e	08	05	00				
										Trace Distant														
15																	e(P)	20	50	22				
																	i			33.5				
																		Trace Regional						
16	i	01	01	20.5													e	01	01	23.5				
		Trace Distant																						
16	e	05	49	47													e	05	49	30				
		Trace Distant																						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194 6 12.

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
16	iP	11	02	03.5					e	11	02	27					e	11	02	48				
	iS		03	16.5													e		03	22				
	Trace Regional																							
16	iP	12	02	45													iP	12	02	48				
	I Distant																e		03	23				
16									eP	19	29	14												
									iS		30	03												
									I Regional															
16	iP	20	58	17.3																				
	iS			18.6																				
	I Local - 5mi																							
16									e	22	32	18												
									Trace Distant															
17	eP"	03	07	37					No Time Control								eP"	03	07	38				
	ePKKP		18	14													i		08	39				
	Trace Distant																e		09	23				
	BGIS: 7.5°S, 130°E; h = 120 km; O = 02:49.1																ePKKP		18	17				
17	iP	03	27.0																					
	Trace Local																							
17	iP	03	49	45																				
	iS			46.6																				
	I Local - 8 mi																							
17	iP	04	56	31													iP	04	56	26				
	Trace Distant																i			30.5				
17																	e	09	22	15				
																	Trace Distant							
17																	e	11	50	08				
																	Trace Distant							

International Seismological Centre

	BOULDER CITY								OVERTON								PIERCE FERRY							
	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
										No Time Control														
17	e	13	15	15					e	13	34	23?					e	13	15	24				
		Trace Distant																						
17	iP	19	32	04.8																				
	iS			06.3																				
		I Local - 8 mi																						
17	iP	19	40	32													eP	19	40	27.5				
	iS		41	08													eS		41	24.5				
		I Regional																						
17	eP	22	43	31.5													e	22	43	35.5				
		Trace Distant																						
17	eP	23	55	05													eP	23	55	00				
	eS			41													i			16.5				
		I Regional															iS			52.5				
																	iL			59.5				
18																	e	01	36	10.5				
																		Trace Distant						
18	iP	02	52	04													iP	02	52	07.5				
	i			14													epP		54	14.5				
	epP		54	13.5													e		55	34.5				
	eS	03	01	37																				
		I Distant																						
		Tonga Region (P); Δ = 74°; h = 600 km																						
18																	e	10	00	37.5				
																		Trace Distant						
18	e	13	44	26													e	13	44	22				
																	e		45	30				
		Trace Distant															e		49	22				

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	
18	e	13 57 15							No Time Control						e	13 57 15					
	e	58 25													e	58 27					
	e	14 02 18													i	14 02 22.5					
		Trace Distant																			
18	iP	15 31 38.3		-	+	+			No N.-S. Control						eP	15 32 08.5					
39	iS	32 00.7													eS	17.2					
		I Local - 7 mi SW of Hoover Dam																			
									Provisional Epicenter - No Overton Control												
19	eP	01 35 42													e	01 35 38					
		Trace Distant																			
19															e	03 13 12					
																Trace Distant					
19								e	05 38 05?						e	05 39 10.5					
															i	26					
															i	39					
																Trace Distant					
19	eP	05 59 09																			
		Trace Distant																			
20	i	05 19 40						e	05 23 13?						e	05 19 35					
	i	56													i	51					
	e	34 10													e	34 07					
		Trace Distant																			
21	e	13 05 11						e	13 04 04?						e	13 15 13					
		Trace Distant																			
22	iP	02 28 40						e	02 28 44						eP	02 28 38.5					
	e(S)	35 24						eS	35 24						e	29 19					
		Trace Distant													eS	35 00					
		(P) Mexico																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1946 15.

Time used is G.C.T.

	BOULDER CITY								OVERTON								PIERCE FERRY							
		Time			Period	Trace Amplitude				Time			Period	Trace Amplitude				Time			Period	Trace Amplitude		
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
21-22	16	Traces Local - 5 mi																						
22																	iP	05	05	25				
																		Trace Distant						
22	eP	08	20	08					e	08	20	25					e	08	20	17				
		Trace Distant																						
22	i	09	37	12					e	09	36	12					eP	09	37	07.5				
		Trace Distant																						
22																	iP	18	39	13.3				
																	is			24.6				
																		I Local						
22	iP	23	33	50.5													eP	23	33	23				
	is		34	04.5													eS			40				
		Trace Regional																						
23	e	01	53	19					e	01	53	19					e	01	53	24				
		Trace Distant															i			50.5				
23	eP	07	06	38					e	07	06	43					iP	07	06	42.5				
		Trace Distant																						
23	iP	08	37	02					iP	08	37	01.5					iP	08	37	08				
	i			10																				
		I Distant																						
23	e	09	29	08													e	09	29	07				
		Trace Distant																						
23	iP	11	25	12.5					iP	11	25	26					iP	11	25	15.5				
		Trace Distant															e		27	29				
23																	i	13	55	47				
																		Trace Distant						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 194 6

Time used is GCT

BOULDER CITY

No. Date	Phase	Time h m s	Period T	Trace Amplitude E	N	Z
23						
23						
23	e	20 05 33				
		Trace Distant				
24	eP	21 30 59				
	i	31 30.5				
		I Regional				
25	iP	15 33 06.5		-	-	+
	iS	07.5				
		I Local - 5 mi				
25	iP	16 39 46				
	i	40 00				
		Trace Distant				
26	e	00 18 36.5				
		Trace Distant				
26	iP	04 04 09.5				
	iS	36				
		Trace Regional				
26	iP	07 17.1				
		Trace Local				
26	i(P)	12 10 26.5				
		Trace Distant				

OVERTON

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
	Heavy Microseisms				
•	04 04 24				
e(P)	12 09 45.5				
i	10 27.5				

PIERCE FERRY

Phase	Time h m s	Period T	Trace Amplitude E	N	Z
iP	16 01 52				
	Trace Distant				
iP	19 09 05.5				
	Trace Distant				
i	20 05 42				
eP	21 31 09				
iP	14				
i	32				
iS	57				
i	32 03				
•	15 33 23.5				
iP	16 39 49				
i	40 04				
i	00 18 39				
	-				
	-				

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
26	iP	15 00 27.2										
	iS	40.7										
	Trace Regional											
27	e	02 41 11			e	02 41 11			e	02 41 07		
	i	51 56							i	51 58		
	Trace Distant											
27	iP	06 32 48										
	iS	49.5										
	I Local - 8 mi											
27	iP	07 11 37.3										
	iS	38.5										
	I Local - 6 mi											
27	iP	09 24 50			iP	09 24 52			iP	09 24 47		
	I Distant								i	25 16.5		
27					e	10 10 16			e	10 10 17		
									Trace Distant			
27	iP	11 48 12.0										
	Trace Local											
27	e	14 46 13			i	14 46 17			eP	14 47 17		
	i	25.0			i	38			i	48 01		
	Trace Distant				i	47 35			i	16		
27	eP	15 07 04			eP	15 07 05.5			iP	15 07 05.5		
	eS	13 52							e(S)	13 41		
	I Distant											
	(P) Mexico											
27	iP	17 06 16.5										
	iS	18.5										
	I Local - 10 mi											

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF November 1946 18.

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	01 11 23			e	01 12 12		
										Trace Distant		
28	iP	16 03 03.5	1.	? -? -	iP	16 03 07			iP	16 03 07		
	i	04.0		+ + +	i	04 12.5			i(PP)	04 13		
	i(PP)	04 09.5			eS	12 43.5			e(S)	12 36		
	iS	12 37										
	(P) 18.5°S, 174°W; D = 15:51:35											
	h = 290 km; Δ = 74°											
	I Distant											
28									iP	19 51 52		
									iS	53.5		
										Trace Local		
28	iP	20 21 02.3										
	iS	03.5										
	I Local - 5 mi											
29					e	05 01 18			e	05 01 15		
						Trace Distant						
29	iP	06 56 06			i	06 56 03.5			i	06 56 07		
		Trace Distant										
29	iP	11 39 58		+ - +	iP	11 39 56.5			iP	11 40 01		
	i	40 09			i	40 23.5			i	52.5		
	I Distant											
29	eP	12 36 55			iP	12 36 55			eP	12 36 58		
		Trace Distant										
29	e	13 25 49.5			e	13 25 49			e	13 25 52		
		Trace Distant										
29						-			e	19 26 28.5		
										Trace Distant		

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

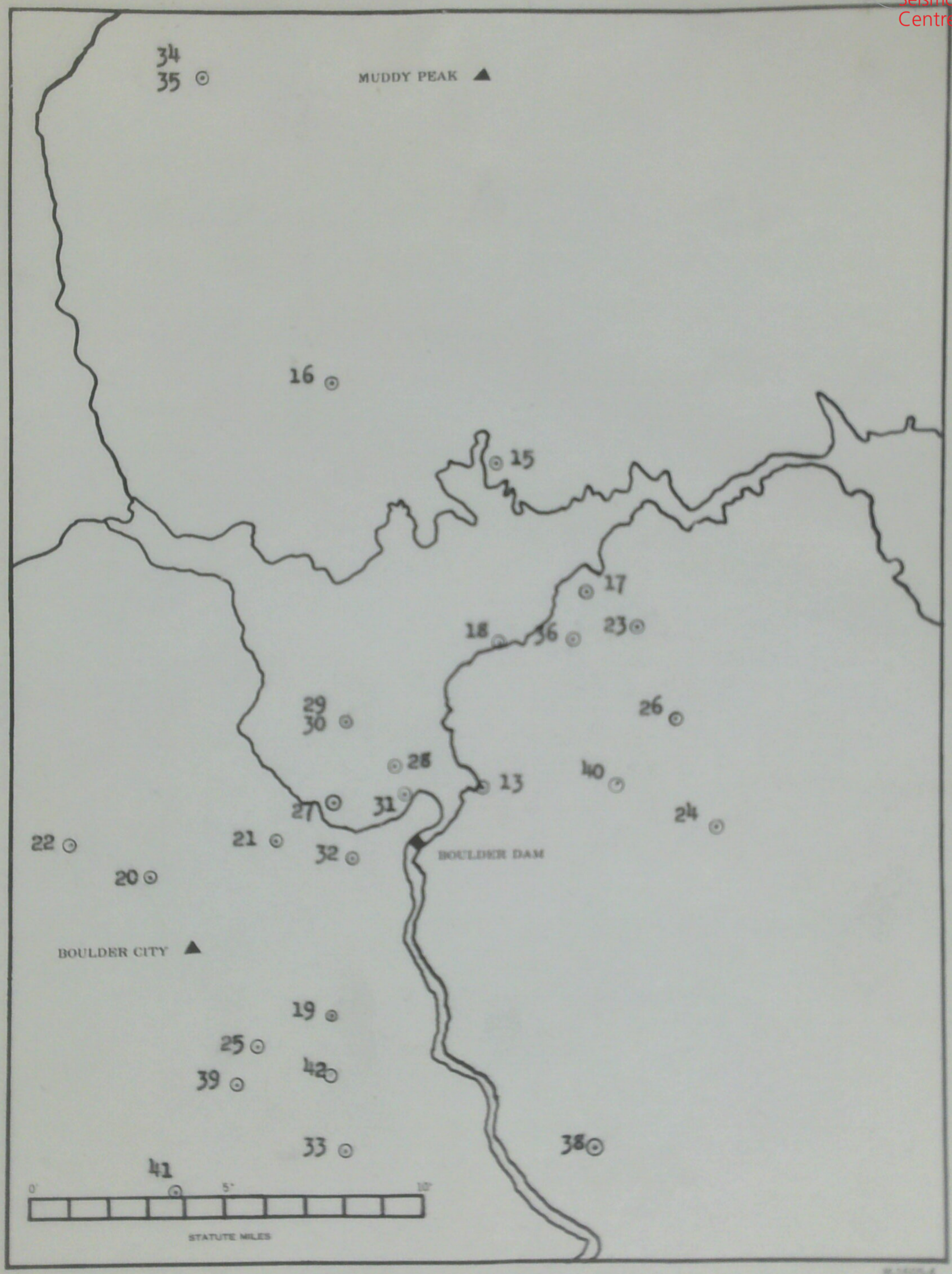
Bureau of Reclamation, National Park Service
and Coast and Geodetic Survey

MONTH OF November 1946 19.

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
29	1P 1S	23 35 21 34.5																
		I Regional																
30	1P	00 54 58				-	eP 1P	00 54 58.5 59					1P	00 54 54				
	I	I Distant						Trace Distant						Trace Distant				
30								-					e	01 01 17				
														Trace Distant				
30	1P 1S	11 48 31.5 33																
		I Local - 8 mi																
30	1P 1S	13 28 11.2 42.5		-30	+	+	eP 1	13 28 18.8 27.6					1P 1	13 28 18.3 26.0				
		I Regional																
30	1P	17 19 03						-					1P	17 18 30.5				
		Trace Distant																
30	1P	22 19 51																
		Trace Local																

International Seismological Centre



TENTATIVE EPICENTERS IN THE LAKE MEAD REGION
APRIL - DECEMBER 1946

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

INSTRUMENTAL REPORTS . . . . . December, 1946

The stations at Boulder City, Overton and Pierce Ferry operated on routine schedules throughout December, 1946.

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
40	4	04:12:38.2	5 mi NE of Hoover Dam
41	6	13:36:13.1	10.5 mi SSW of Hoover Dam
42	19	03:50:28.9	6 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 Dec.	G. C. T.	Intensity and Description
41	6	13:36:13.1	IV at Boulder City (Felt by several, rattled windows.)

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **December** 194**6**

Time used is **GCT**

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**						
1	iP	04	46	35.5						**Poor Time Control**														
		Trace Local																						
1	i	05	17	12.4					eP	05	17	17					eP	05	17	19				
	iP			14.9					is			50					iP			35				
	is			48.4													is		18	04.5				
		I Regional																						
1	eP	05	57	22					e	05	57	20					e	05	57	32				
	is			37													e			47				
		Trace Regional																						
1	i	06	23	44.4					eP	06	23	45					eP	06	23	50.5				
	iP			46.9					iP			49					i			56.6				
	is		24	15.4					is		24	23					i		24	19.5				
		II Regional															is			35.5				
1	iP	06	36	02.5					eP	06	36	12					e	06	36	12				
		Trace Regional							i(s)			40												
1	i	06	57	31.4						**Poor Time Control**														
		Trace Local																						
1	iP	11	41	43.5					iP	11	41	46.5					iP	11	41	41				
	e			56.5					e(P'P')	12	08	21					e(P'P')	12	08	25.5				
		I Distant							e		13	33					e		12	45.5				
1	i	11	55	16.4					eP	11	55	20					iP	11	55	23				
	iP			19.4					i			23.5					i			29				
	is			52.4					is			56					is			58.5				
		I Regional															is		56	09				
1									e	14	05	17					e	14	04	28				
										Trace Distant														
1	iP	20	56	57.2						**Time Control ?**														
	is			58.7																				
		I Local - 7 mi																						

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										Time Control ?							e	01	23	42				
																		Trace Distant						
2	iP	05	16	14.6													e(P)	05	16	21				
	iS			17.6													e(S)			29				
		I Local - 15 mi																						
2	1	13	39	30													eP	13	39	41				
	iS		40	09													i			59				
																	iS		40	24				
		I Regional															i			44				
2																	e	14	45	55				
																		Trace Distant						
2	iP	17	02	45.3													iP	16	30	41.5				
	iS			46.8														Trace Distant						
		I Local - 8 mi																						
2	iP	23	37	14.3													eP	23	37	15				
	iS			28.0																				
		Trace Regional																						
3																	e	01	13	01				
																		Trace Distant						
										No Time Control														
3	eP	06	02	54					e	06	01						eP	06	02	50				
		Trace Distant																						
3	iP	07	06	05					e	07	03						eP	07	06	01				
	i			20																				
		Trace Distant																						
3										No Time Control							iP	18	27	49.4				
																	iS			51.7				
																		I Local						

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **December** 1946 3.

Time used is **GCT**

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	eP	19 25 21 Trace Distant					No Time Control						iP	19 25 22.5				
3	e	21 31 00 Trace Distant											i(P)	21 31 03				
3	e	23 00 00 Trace Regional											e i e	22 59 43.5 59 23 00 32				
4	iP	04 12 38.2		-	-?	+	i(P)	04 12 53.8					iP	04 12 44.8				
40	is	40.7											is	53.5				
		I Local					Provisional Epicenter 5 mi NE of Hoover Dam No Overton N - S Control											
4	iP	07 09 46											i	07 10 01.5				
	is	49																
		Trace Local																
4							No Time Control						iP is	07 29 08.2 53.6				
														I Local				
4													e	12 22 04 Trace Distant				
4													e	12 57 25.5 Trace Distant				
4	eP	21 59 03 Trace Distant BCIS: 35°50'N, 68°30'E; 0 = 21:40.2					Obscured						eP	21 59 03				
5	e	01 14 33 Trace Distant					e	01 14 28					e	01 14 24				
5							Obscured						e	03 18 03.5 Trace Distant				

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF December 1946

Time used is GCT

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	e	07	02	34					e	07	02	43					e(P)	06	58	34.5				
	e(PKKP)	15	00						e(PKKP)	15	00						e	07	03	06				
	Trace Distant																e(PKKP)	14	58					
	BCIS: 04.7°S, 145.8°E; O = 06:44:37																							
5	eP	09	00	13					e	09	00	14					eP	09	00	15				
	Trace Distant																							
5	iP	09	38	32.1																				
	iS			33.3																				
	I Local - 6 mi																							
5	e	10	19	16					e	10	19	18					e	10	19	12				
	Trace Distant																							
6	eP	08	32	45					eP	08	32	44					iP	08	32	46				
	Trace Distant																							
6																	e	10	18	50				
																	Trace Distant							
6	iP	10	22	22																				
	Trace Local																							
6																	e	10	59	46				
																	Trace Distant							
6	iP	13	36	13.1		+	+?	-	eP	11	36	23.3					iP	13	36	22.9				
41	iS			15.5								49.6 mi					iS			32.0				
	II Local - 6.2 mi																			48.5 mi				
	Felt in Boulder City								Epicenter 10.5 mi SSW of Hoover Dam; h = 15 km															
6	iP	13	48	43.3					iP	13	48	32.5					eP	13	48	41				
	iS			58.8													iS			56				
	I Regional																							
6	iP	18	00	13.5								-					iP	18	00	24.5				
	iS			15.2													iS			32.5				
	II Local - 10 mi																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF December 1946

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
6	IP	19	10	24																				
	IS			25.5																				
	Trace Local																							
6	IP	19	52	10.5																				
	IS			14																				
	I Local - 7 mi																							
6									e	23	03	40					e	23	03	41				
									Trace Regional ?															
6	IP	23	36	36.8						-							eP	23	36	40				
	IS			50.8													eS			55				
	Trace Regional																							
7	IP	01	58	42					eP	01	58	45					IP	01	58	48.5				
	1			45					1S		59	19					1			54.5				
	IS		59	12													1(S)		59	24.5				
	I Regional																IS			34				
7	IP	02	03	12					IP	02	02	45					IP	02	03	18				
	1			14.5					1		03	10					1			34				
	1			41.5					1			14					IS		04	03				
	II Regional																							
7									e	03	51	31					e	03	51	51				
									Trace Distant															
7	e	04	28	28					e	04	28	24					e	04	28	42				
	Trace Distant																							
7	e	05	48	44					e	05	48	53					e	05	49	04				
	Trace Distant																							
7	IP	07	36	15					eP	07	36	17					e	07	36	54				
	IS			44					IS			48					1		37	53				
	I Regional																							

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF December 1946 6.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
	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																	e	08	01	45.5				
																		Trace Distant						
7	eP	09	42	45																				
		Trace Distant																						
7	iP	11	06	01.3																				
	iS			02.8																				
		I Local - 7 mi																						
7	eP	17	04	12																				
		Trace Distant																						
7	iP	17	31	03				+			-						iP	17	31	06				
	e		32	06													ipP			39				
		I Distant															e(pPP)		35	01				
		BGIS: 16°S, 169°E; 0 = 17:15:2; Δ = 10,100 km																						
7	iP	17	36	52							-						iP	17	36	55				
		Trace Distant																						
7	iP	21	31	20.8																				
	iS			22.8																				
		I Local - 10 mi																						
7	iP	22	41	41.8																				
	iS			43.3																				
		I Local - 7 mi																						
8	iP	02	52	36.8					(e)	02	51	19												
	iS			38.1																				
		I Local - 5 mi																						
8	eP	04	07	15					e	04	07	39					e(S)	04	08	03				
		Trace Regional																						
8	iP	06	05	40.8																				
	iS			41.9																				
		Trace Local - 5 mi																						

Record Change

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **December** 194 **6** **7.**

Time used is **GCT**

	BOULDER CITY								OVERTON								PIERCE FERRY							
	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
										Time Control Off							e	08	21	25				
																		Trace Distant						
8	iP	12	18	46.5				-	iP	12	17	?					iP	12	18	44.5				
	ipP		19	10					i(pP)		18	?					ipP		19	09				
	e		25	45					e		24	?					e		25	44				
	I Distant																							
8	iP	19	42	22.4		-	-	+																
	iS			24.1																				
	I Blast at Boulder Dam - Direction NE 8 mi																							
9	iP	00	57	23							-						iP	01	56	57				
	Trace Distant																							
9	e	01	02														e	01	01	56				
	Trace Distant																							
9									e	01	53	?					e	01	54	06				
																	i		55	27				
																	Trace Regional ?							
9	iP	06	17	11.5																				
	iS			13.0																				
	Trace Local																							
9	iP	07	42	40.3						No Time Control														
	iS			42																				
	Trace Local - 10 mi																							
9	eP	08	38	45					e	08	38	?					e(P)	08	38	46				
	Trace Distant																							
9	iP	10	02	06.3																				
	iS			07.6																				
	Trace Local																							

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
9	iP	10	16	26.8		?	?	+	iP	10	15	?					iP	10	16	41.8				
	iS			33.6					i(S)			?					i(S)			51.8				
	I Local																							
9	e	11	08	54					e	11	08	?					e	11	09	15.5				
	Trace Distant																							
9	iP	12	40	20.5																				
	iS			22.0																				
	I Local - 8 mi																							
10	eP	02	39	02						No Time Control							e	02	39	00				
	Trace Distant																							
10	iP	04	02	00					eP	03	57	?					eP	04	01	57				
	eS		05	37													i		03	04				
	I Distant - Mexico																eS		05	36.5				
10	iP	07	34	25.5				+		No Time Control							iP	07	34	28				+
	i		35	15													i			49.5				
	I Distant																							
	BCIS: 45.5°N, 140.5°E; O = 07:22.8																							
10	iP	07	53	04.2																				
	iS			05.9																				
	Trace Local																							
10																	e	08	24	59				
																		Trace Distant						
10	iP	09	20	14.6																				
	iS			16.2																				
	I Local - 8 mi																							
10																	e	11	38	23				
																		Trace						

LAKE MEAD SEISMOLOGICAL STATIONS

Bureau of Reclamation, National Park Service
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MONTH OF December 1946 9.

Time used is GCT

International Seismological Centre

	BOULDER CITY							OVERTON							PIERCE FERRY						
	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	
								e	13 08						e	13 12 17					
																Trace Distant					
10	e	15 29 56													eP	15 28 44					
	i	32 11													i	29 00.5					
															i	59					
															i(S)	31 13					
		I Distant													iS	32 16					
10	iP	15 44 28.5													iP	15 44 20					
	i	45 39													i	24.5					
		I Distant													i	45 30					
		Aftershock of above													iS	48					
10	iP	16 44 42							No Time Control						iP	16 44 43					
		Trace Distant													i(S)	46 54					
		Aftershock																			
10	iP	17 32 49.5						iP	17 28 ?						iP	17 32 51.5					
	i	34 10													i	33 10					
		I Distant													i(S)	34 12.5					
		Aftershock																			
10	e(S)	17 49 30													eP	17 48 42.5					
		Trace Distant													e(S)	49 12					
		Aftershock																			
10	i	18 42 02						e	18 42						eP	18 42 14					
	i	06													e(S)	52					
		Trace Regional																			
10	e	18 46 48													e	18 46 51					
		Trace Distant																			
10	iP	18 58 14													iP	18 58 11					
		Trace Regional																			
10	iP	23 54 17.3																			
	iS	19.0																			
		Trace Local																			

International Seismological Centre

LAKE MEAD SEISMOLOGICAL STATIONS

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

MONTH OF **December** 194 6 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
11	iP	00 01 25				No Time Control						
	iS	27										
		Trace Local - 10 mi										
11	e(S)	00 50 58			e	00 45			eS	00 50 10		
		Trace Regional										
11	iP	05 59 17										
	iS	18.3										
		I Local - 5 mi										
11	iP	08 08 29.6							iP	08 08 29		
	iS	45.5							iS	43		
		I Regional										
11									eP	10 03 14		
									i	37.5		
										Trace Distant		
11	e	10 20 08							eP	10 18 52		
		Trace Regional							i	20 12		
11	e(S)	13 14 55							e(P)	13 11 39		
		Trace Distant							e	14 53		
11	iP	23 36 35.8			iP	23 36 38			eP	23 36 37.8		
	iS	48.6			iS	56.5			i	43		
		Trace Regional							iS	53		
12	iP	13 55 14.6										
	iS	16.0										
		I Local										
12	e	21 52 13				-			e	21 52 17		
		Trace Distant										
12	e	23 52 27				-			e	23 52 25		
		Trace Distant										

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
13	e	00	42	09							-						e(P)	00	41	31				
		Trace Distant															eS		42	43				
13	iP	04	45	18.5																				
	iS			19.7																				
		Trace Local																						
13	e(P)	05	25	36					1(P)	05	25	36					1(P)	05	25	35.5				
		Trace Distant																						
13	iP	10	28	54				-	iP	10	28	55					iP	10	28	50				
	i		29	20.5					i		29	35					e		29	29				
		Trace Distant																						
13	e(P)	12	58	16					e	12	58	21					e(P)	12	58	02				
		Trace Distant - (P) So. America															i			36				
13	eP	13	54	14					eP	13	54	11.5					eP	13	54	18				
	e		58	03																				
		Trace Distant																						
13	iP	21	46	10.8																				
	iS			11.5																				
		I Local - 5 mi																						
13	iP	23	10	33																				
	iS			35																				
		I Local - 5 mi																						
14	e	19	19	59					eP	09	19	43.5					iP	09	19	37.5				
		Trace Regional							i(S)		20	14					iS			55.6				
15	e	00	42	23					eP	00	42	10					e	00	42	24.5				
		Trace Distant - (P) Tonga Region															i			44				
15																	iP	08	23	27.6		+	+	+
																	iS			29.3				
																		I Local - 10 mi SW						

International Seismological Centre

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MONTH OF December 194 6 12.

Time used is GCT

	BOULDER CITY							OVERTON							PIERCE FERRY						
MO. 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	08	57	44.8		+	+	+
																	iS			46.2				
																		I Local - 10			mi SW			
15	iP	13	42	44.6																				
	iS			46.2																				
		I Local																						
15	iP	13	43	09.7																				
	iS			11.4																				
		Trace Local																						
15	iP	16	15	57.6																				
	iS			59.6																				
		I Local - 10			mi																			
15	e	23	11	02						-							e	23	10	57.5				
		Trace Distant																						
16	eP	01	06	15						-							eP	01	06	16.5				
	i			23													i			27				
		Trace Distant																						
16	iP	04	08	42.8																				
	iS			44.6																				
		I Local - 8			mi																			
16	iP	05	31	39.8																				
	iS			41.8																				
		I Local - 10			mi																			
16	e	06	13	57					e	06	14	19					e(P)	06	11	49				
		Trace Distant																						
16	iP	06	18	46.3																				
	iS			48.3																				
		I Local - 10			mi																			

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LAKE MEAD SEISMOLOGICAL STATIONS

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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	09	55	02.6																				
	iS			04.1																				
	Trace Local																							
16									eP	11	26	59.5					eP	11	26	53				
																	i		27	09				
																	Trace Distant							
16	eP	21	47	11					eP	21	47	12					eP	21	47	08				
	Trace Distant																i			09.5				
17	iP	03	36	47.5																				
	iS			49.2																				
	I Local - 9 mi																							
17	iP	08	29	01																				
	Trace Local																							
17									e	13	30	38					e	13	31	06				
									Trace Distant															
17	iP	22	52	27.5				-	iP	22	52	31.5				-	iP	22	52	32				-
	ipP		54	31.2					i		53	51					ipP		54	35.5				
	I Distant								i		54	04					e(S)	23	02	34				
	(P) 22°S, 177°W; 0 = 22:41:06																iPKKP		10	55				
	h = 580 km																							
18	iP	00	31	24							-						iP	00	31	28				-
	I Distant																							
	BCIS: 58°N, 154°W; 0 = 00:24.7																							
18	iP	01	43	52.2																				
	iS			53.2																				
	I Local - 10 mi																							
18	eP	02	04	24					iP	02	04	26.5					iP	02	04	26				+
	i			24.5				+									i			38.5				
	Trace Distant																i		08	06.5				

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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
18	iP	14	22	36					iP	14	22	34.5		+		-	iP	14	22	41		+	-	-
	i			54					i		23	31					i		23	13.5				
	eS		25	03					eS		25	07					eS		25	13.5				
	I Distant																							
	Felt in Eureka, Calif.																							
18										-							i(P)	19	00					
																		Trace Distant						
18	iP	21	05	07.8																				
	iS			09																				
	I Local - 7 mi																							
19	e	01	03	45					e	01	01	48					e	01	02	43				
	Trace Distant																e		03	50				
	BCIS: 07.3°S, 127°E; 0 = 00:44:08																							
19	eP	03	10	51					eP	03	10	55					eP	03	10	53				
	ePP		14	45					i		14	27.5					iP			58				
	I Distant								ePP			46					iPP		14	40				
	BCIS: 25°N, 123°E; 0 = 02:57:22																							
	h = 100 km																							
19	iP	03	50	28.9		-	+	+	iP	03	50	39.3					eP	03	50	38.7				
42	iS			30.5													iS			47.4				
	III Local - 4.9 mi SE										45 mi								44.5 mi					
											Epicenter 6 mi SSW of Hoover Dam													
19	iP	23	34	46.8						-							eP_E	23	34	49				
	iS		35	00													iS		35	04				
	Trace Regional																							
20	iP	09	22	01.5		?	+	-		-							eP_E	09	22	07				
	iS			04.5													iS			13.4				
	I Local - 12 mi																							
20																	iP	12	10	07				
																	iS			07.9				
																	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
20	eP	19 31 42.5		+	-?	+	eP	19 31 41					eP	19 31 44				
	e(S)	42 05					i	36 12					i	32 27				
		Rest covered					e(S)	40 21					i(PPP)	35 21				
		II Distant					eP'P'	58 21					e(S)	41 23				
		CGS: 33.3°N, 134°E; 0 = 19:19.0											eP'P'	57 28				
20							iP	19 53 03.1					eP	19 53 01.8				
							iS	09.5					iS	08.3				
								Trace Local										
20	eP	22 59 00					e	22 58 41					e	22 58 41				
		Trace Distant																
		Aftershock																
20	e(S)	23 45 15						-					eP	23 41 50				
		Trace Distant											e(S)	44 51				
21							iP	00 39 07					iP	00 39 04				
								Trace Distant										
21	eP	03 21 10						-					eP	03 21 08				
		Trace Distant																
21	iP	03 50 34					eP	03 50 33					iP	03 50 36				
	i	50					i	45					i	48				
		Trace Distant																
		USSR: 41.5°N, 148.5°E																
21	iP	04 56 06					e	04 56 09					iP	04 56 04				
		Trace Distant																
21	i	05 24 48					e	05 24 51					iP	05 23 41.5				
		Trace Distant											i	24 52				
21	eP	07 39 48					eP	07 39 49					eP	07 39 51				
		Trace Distant																

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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
21	iP	10 22 56 Trace Distant					iP	10 22 57					iP	10 23 00				
21	iP e	10 30 02 39 11 I Distant CGS: 44°N, 148°W; O = 10:18.8		+	?	+	eP i(pP)	10 30 01 13					iP i(pP)	10 30 04.5 16				
21	eP	10 41 05 Trace Distant					eP	10 41 05					eP	10 40 08				
21	eP	10 49 47 Trace Distant Aftershock					eP	10 49 47					eP	10 50 00				
21	eP	10 57 55 I Distant Aftershock					iP	10 57 55					iP	10 57 58				
21	iP	11 02 42 Trace Distant Aftershock					iP	11 02 42					iP	11 02 45.5				
21	e	11 28 31 Trace Distant					eP	11 28 01					i	11 29 04				
21							eP	12 01 18 Trace Distant					iP	12 01 20.5				
21	iP	12 18 53 Trace Distant						-					iP	12 18 56				
21	iP	12 30 38 Trace Local																

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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	12	50	41					iP	12	50	40					iP	12	50	43.5				
	i		55	31					i		55	04					i		55	33				
	I Distant - Aftershock																							
21	iP	13	07	29					eP	13	07	28					iP	13	07	32.5				
	I Distant																i			52				
	Aftershock																							
21	iP	13	33	43					iP	13	33	42					iP	13	33	51				
	Trace Distant - Aftershock																							
21	eP	14	24	09					e	14	24	17					eP	14	24	08				
	Trace Distant																							
21	iP	14	58	21													e	15	00	51				
	eS			35																				
	Trace Regional																							
21	iP	19	59	58		+	-	+	iP	19	59	57					iP	20	00	00				
	i	20	00	04					e(PP)	20	02	58					i			34				
	i(PPP)		05	22					i(PPP)		05	21					i(PP)		03	00				
	eS		09	11					eS		09	16					i(PPP)		05	23				
	I Distant																eS		09	21				
	BCIS: 43.4°N, 148.3°E; 0 = 19:48:37																							
21	iP	20	16	06				-	iP	20	16	05.5					iP	20	16	08				
	Trace Distant																							
21	iP	20	31	45		?	-	-	iP	20	31	44					iP	20	31	47				
	e		41	00					i		32	55					i		34	05				
	I Distant																i		56	06				
21	iP	23	23	43				-	iP	23	23	45					iP	23	23	46				
	I Distant																							
	SW Pacific																							

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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	
21	eP	23 59 48							-						eP	24 00 01					
		Trace Distant																			
22	iP	02 37 59						eP	02 38 01						eP	02 38 02					
		Trace Distant						i(pP)	14						i(pP)	21					
22	iP	03 07 39						eP	03 07 37						iP	03 07 41					
		Trace Distant																			
22	iP	05 02 34						eP	05 02 32.5						iP	05 01 36					
		Trace Distant																			
22	eP	08 20 33													eP	08 19 36					
		Trace Distant																			
22	iP	14 01 36						i	14 01 14.5						i	14 02 00.5					
	i	02 10																			
		Trace Distant																			
22	e	19 51 21																			
		Trace Local																			
22	iP	23 20 08.2													eP	23 20 10					
	iS	22.7													eS	27					
		Trace Regional																			
23	iP	01 27 29						iP	01 27 28.5						iP	01 27 32					
		Trace Distant																			
23	i(P)	02 55 44						i(P)	02 55 44.5						i(P)	02 55 47.5					
		Trace Distant																			
23	iP	07 48.2																			
		Trace Local																			
23	eP	17 21 34							-						eP	17 21 37.5					
		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
23	e	18 01 45 Trace Distant						-					e	18 01 49				
23	iP iS	20 40 36 39.5 I Local																
24	e	01 40 44 Trace Distant Felt at San Jose, Calif.											e	01 41 00				
24	e	04 13 39 Trace Distant					e	04 13.5					e	04 13 40				
24	iP iS	08 44 37.5 39 I Local - 8 mi																
24	e	09 47 52 Trace Distant USSR: 32.5°N. 136°E					e	09 47 53.5					e	09 48 57				
24	eP	15 12 56 Trace Distant						-					eP	15 12 59				
24	eP	16 48 35 Trace Distant USSR: 40°N. 147.5°E					eP	16 48 39					eP i	16 48 40 59				
24	e	19 49 02 Trace Distant						-					eP	19 48 35				
24	e	20 45 54 Trace Distant						-					e i	20 45 51 46 03.5				
25	iP	06 21 30 Trace Distant					eP i	06 21 27.5 41.5				-	iP i	06 21 32.5 22 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
25	eP	06 59 34			eP	06 59 34			eP	06 59 37.5		
		Trace Distant										
25									e	10 27 05		
										Trace Distant		
25	iP	11 21 56		+ - +	iP	11 21 45		+	iP	11 21 49.5		
	e(S)	28 42			e(S)	28 41			i	22 11		
									e(S)	28 48		
		I Distant										
25	iP	17 25 58										
	iS	59										
		I Local - 8 mi										
25	eP	19 38 58			e	19 39 13			eP	19 38 59		
	eS	39 33							eS	39 53		
		I Regional										
25	iP	22 31 09			eP	22 31 05			eP	22 31 15		
	eS	38			i	13.5			i	21		
		I Regional			iS	46			iS	55		
26	iP	00 08 51			iP	00 08 52			iP	00 08 54		
		Trace Distant										
26	e	04 00 50							e	04 00 48		-
		Trace Distant										
26	eP	12 12 24			iP	12 12 25			iP	12 12 27		-
		Trace Distant										
26	iP	17 09 31				-			eP	17 09 27		
		Trace Distant							i	33		
		USSR: 9°S. 121°E										
26	iP	19 45 31			eP	19 45 32			iP	19 45 27		
	i	46 24										
		Trace Distant										

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No. Date	Station	Phase	Time h	m	s	Period T	Trace Amplitude E	N	Z
27	BOULDER CITY	iP	07	07	29				
		Trace Regional							
	OVERTON	eP	07	07	28				
	PIERCE FERRY	eP	07	07	28				
28	BOULDER CITY	iP	01	06	11				+
		I Distant - West Indies (P)							
	OVERTON	iP	01	06	10				+
	PIERCE FERRY	iP	01	06	05				+
		i			12				
28	BOULDER CITY	iP	02	51	08				
		iS			09.5				
		I Local - 8 mi							
28	BOULDER CITY	iP	10	20	36				-
		i			52				
		I Distant							
		USSR: 39°N, 146°E							
	OVERTON	eP	10	20	34				
		i			54				
		i		21	03				
	PIERCE FERRY	eP	10	20	37				
		iP			39				
		i			56				
		i		21	22				
29	BOULDER CITY	eP	04	26	42				
		Trace Distant							
	OVERTON	eP	04	26	40				
	PIERCE FERRY	eP	04	26	46				
29	BOULDER CITY	iP	22	57	12.1				
		iS			13.1				
		I Local - 5 mi							
30	BOULDER CITY	eP	04	21	53.5				+
		Trace Distant							
	OVERTON	eP	04	21	54				
	PIERCE FERRY	eP	04	21	51				
30	PIERCE FERRY	i	10	04	40				
		Trace Distant							
30	BOULDER CITY	iP	11	20	55				+
		Trace Distant							
	OVERTON	eP	11	20	58				
	PIERCE FERRY	eP	11	20	51				
		i			52.5				
30	BOULDER CITY	e	16	19	15				
		Trace Distant							
	OVERTON	-							
	PIERCE FERRY	iP	16	19	14				
		i			47				
31	BOULDER CITY	eP	23	08	40				
		Trace Distant							
		(P) South America							
	OVERTON	iP	23	08	41				
	PIERCE FERRY	iP	23	08	38				