

1956 complete
1957



JUL 3 1 1958

UNIVERSITY OF COLORADO
SEISMOLOGICAL OBSERVATORY

Department of Geology, Boulder, Colorado
40°00.5' North, 105° 16.25' West, h = 1654 m.

Seismographs: 1 Benioff short-period vertical
2 Benioff short-period horizontal

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QUARTERLY BULLETIN
(January, February, March, 1956)

JANUARY, 1956

<u>Date</u>	<u>Phase</u>	<u>Time</u> h m s	(G C T)	<u>Date</u>	<u>Phase</u>	<u>Time</u> h m s	(G C T)
January 1	e	23 27 12		January 14	i	18 43 54.5	
2	e	22 42 18			e	18 49 29	
3	e	00 28 41			i	18 49 35.7	
	e	04 01 12			i	22 23 02	
	i	10 52 50.3		16	e	02 59 37	
	i	13 12 52.6			i	14 21 51.5	
6	e	07 08 20			e	23 46 07	
	i	11 59 23.8			i	23 46 11	
	i	12 28 36.5		17	e	08 09 01	
	e	18 00 35			i	08 09 08.5	
	e	22 37 16		18	i	08 18 43	
	e	23 38 09			e	11 57 01	
7	e	10 24 34		20	e	11 18 44	
	e	10 41 21		21	e	08 15 04	
	e	11 00 46			i	08 15 48.4	
	e	11 20 34			e	12 35 50	
	i	16 47 18		22	i	00 18 16.3	
8	i	07 16 39.6		23	e	00 53 36	
	i	07 24 11.2			i	03 57 28.2	
	i	21 05 11			e	04 07 36	
9	e	00 42 20		24	e	00 47 39	
	e	08 13 08		25	i	06 38 02.7	
	e	12 18 12			e	11 01 05	
	i	12 18 12.3		26	e	06 31 31	
	i	13 17 20.5		27	e	13 52 04	
	e	17 06 48		28	e	05 04 44	
	i	17 07 27.7		29	e	31 41 35	
10	e	09 05 49			e	04 47 17	
	e	10 31 40			i	04 51 11.5	
	i	12 36 09.8			i	16 43 32	
11	e	06 51 30			e	22 39 31	
	e	08 03 02			e	23 59 21	
	e	12 54 28		30	i	15 04 44	
12	e	00 45 54		31	e	05 37 13	
	e	04 48 57			e	09 30 27	
	e	05 58 21			i	09 46 32.5	
	i	07 53 19.3					
13	i	03 37 10.2					
	i	03 37 39.7					
	e	12 25 54					
14	e	14 17 19					
	e	14 36 31					

FEBRUARY, 1956

<u>Date</u>	<u>Phase</u>	Time	(G C T)	
		h m s		
February 1	i	13	54	22
	i	15	23	00.6
2	e	00	28	23
	e	03	31	20
	i	03	31	22
	e	11	08	21
	i	13	44	14
	i	14	59	45
	e	16	17	29
	i	16	17	31.2
	e	16	58	23
	e	16	59	58
	i	17	00	00
	i	17	46	54
4	e	03	03	29
5	e	09	40	19
9	e	01	00	50
	e	11	05	20
	i	14	35	34
	i	15	27	22.3
	i	16	32	49.7
	i	17	02	51
	e	17	29	38
	i	18	51	40
	i	23	56	51.3
10	e	00	08	26
	e	00	14	57
	e	04	14	59
	e	04	21	10
	e	07	36	38
	e	11	43	48
	e	14	33	10
	e	15	12	26
	i	18	15	50
11	i	03	00	42
	e	06	01	18
	e	06	14	23
	e	06	27	22
	e	10	54	20
	e	18	35	20
12	e	01	08	32
	e	02	45	40
	e	04	02	08
	e	04	17	07
	e	05	04	54
	e	12	03	57
13	e	01	16	40
	e	15	40	38

<u>Date</u>	<u>Phase</u>	Time	(G C T)	
		h m s		
February 14	i	01	05	20.5
	i	10	05	24.6
	i	18	36	29.8
	e	21	59	09
15	i	01	23	34.8
	e	02	31	32
	i	07	10	40
	e	08	38	17.8
	e	12	30	32
	i	12	59	40
	i	18	49	07
	e	18	57	39
16	e	00	30	52
	i	03	10	53
	e	08	15	22
	i	14	39	41
17	e	09	27	59
	e	10	13	57
	e	10	42	58
18	e	01	46	53
	i	07	46	28
	e	10	33	28
	i	10	33	31.7
19	e	02	22	52
	i	02	22	52.7
	e	02	44	25
	e	04	20	17
	i	04	20	18
	e	18	46	15
20	e	13	12	22
	e	20	44	44
21	e	02	52	44
22	e	00	17	34
	e	05	29	02
	e	10	18	35
23	i	01	30	09
25	e	20	50	10
26	e	05	52	17
27	e	03	33	38
	e	08	46	26
28	i	11	24	41.3
29	e	07	10	40
	e	09	04	16
	e	21	00	56

MARCH, 1956



<u>Date</u>	<u>Phase</u>	<u>Time</u>	(G	C	T)	<u>Date</u>	<u>Phase</u>	<u>Time</u>	(G	C	T)
		h	m		s			h	m		s
March 1	e	06	37		24	March 16	e	10	55		39
	e	14	12		20						
						19	e	13	37		38
2	e	10	11		15						
	i	12	03		15.6	20	e	04	25		28
							e	05	35		35
3	i	00	18		00		i	12	42		31.4
4	e	01	13		38	21	e	05	36		58
5	e	23	41		31	22	e	06	42		41
							i	06	42		42.5
7	e	12	52		32						
8	e	11	13		32	30	e	17	57		59
							e	18	55		45
10	e	19	46		23		e	22	28		32
	e	21	55		59	31	e	07	42		26
							i	08	27		32.3
12	i	20	03		14.3		e	12	00		26
13	e	01	47		41						
	i	13	20		36						
	e	19	31		58						

UNIVERSITY OF COLORADO
SEISMOLOGICAL OBSERVATORY

Department of Geology, Boulder, Colorado
40°00.5' North, 105° 16.25' West, h = 1654 m.

Seismographs: 1 Benioff short-period vertical
2 Benioff short-period horizontal

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QUARTERLY BULLETIN
(April, May, June, 1956)

APRIL, 1956

<u>Date</u>	<u>Phase</u>	Time	(G	C	T)	<u>Date</u>	<u>Phase</u>	Time	(G	C	T)
		h	m		s			h	m		s
April 2	e	04	55		44	April 20	i	15	34		41
	e	11	09		13						
5	e	04	12		24	21	i	08	00		07.5
							e	14	00		17
6	e	06	25		17	22	e	04	20		14
	e	07	41		05		e	17	29		28
	i	00	03		25.5	23	i	03	43		28
8	e	22	31		49	24	e	12	35		17
10	e	13	35		05		e	18	40		21
	i	13	35		13.6		e	23	35		01
12	e	05	16		38	25	e	09	11		22
13	i	04	49		54.5	26	e	02	34		04
	i	08	05		45.4		e	11	50		55
16	i	01	52		38		e	12	15		29
	e	11	06		08	27	e	06	53		43
	e	20	57		04	28	e	07	00		40
18	i	11	09		10.4		i	07	03		42.2
	e	12	59		04	29	e	04	25		13
	e	18	04		04						

MAY, 1956

<u>Date</u>	<u>Phase</u>	<u>Time</u>	(G C T)	<u>Date</u>	<u>Phase</u>	<u>Time</u>	(G C T)
		h m s				h m s	
May 1	e	03	01 16	May 19	e	06	33 48
	i	03	04 57.4		e	20	22 05
	e	13	10 30		e	21	54 21
2	i	06	46 26.3	20	e	00	55 15
4	e	13	55 21		e	16	24 10
	i	13	55 22.2		i	00	40 41.5
	e	14	48 42		i	09	22 25.5
5	i	03	34 53.3	22	i	03	13 37
	i	12	50 52.6		e	11	08 35
6	e	21	04 53	23	e	10	35 19
7	e	08	22 46		i	10	35 27.5
	e	11	18 25		i	21	00 34.5
8	i	07	27 06.5		e	21	45 50
	i	10	56 05		e	02	30 57
10	e	10	51 50		i	02	31 02.5
	i	12	28 04	26	e	20	33 19
	e	18	21 29		i	20	33 22
11	c	16	33 29	27	e	13	32 24
13	i	03	14 34.8		e	16	55 00
	e	08	09 44		i	17	15 26
	e	09	47 20		e	18	08 24
	e	14	43 30	28	e	01	53 34
15	i	08	23 00.6		e	13	42 06
	i	12	42 19.5	29	e	06	52 05
17	i	06	10 28.2	30	i	15	54 33.5
	e	06	39 16	31	e	14	19 04
	e	15	22 18				
18	e	08	31 33				
	e	10	01 37				

JUNE, 1956

<u>Date</u>	<u>Phase</u>	<u>Time</u>	(G	C	T)	<u>Date</u>	<u>Phase</u>	<u>Time</u>	(G	C	T)
		h	m		s			h	m		s
June 3	e	05	27		04	June 14	e	12	23		44
	e	09	49		18						
4	e	07	15		37	15	e	08	49		23
	i	07	17		42.4	16	e	06	32		45
	i	08	18		22.6		i	12	52		04.5
5	e	05	52		33		e	17	03		00
	e	06	12		48		e	19	49		17
	e	23	42		21	20	e	18	00		30
6	e	10	25		26	21	e	20	54		45
8	e	12	43		44	23	e	02	28		03
	e	14	04		52	24	e	13	14		47
	e	16	30		01	26	i	11	35		21.3
9	i	02	33		46.2	28	i	08	36		22.2
	e	03	17		42		i	23	03		18
	i	10	20		17.7		e	23	21		19
	e	23	28		02	29	i	04	22		21
10	e	02	37		05	30	e	07	23		22
11	i	08	31		06		i	07	23		24.7
	e	10	07		55		e	13	21		22
	i	16	55		07.5		e	14	28		10
12	e	02	21		45						
	e	06	52		17						
	e	09	02		45						
13	i	01	29		09						
	i	12	26		18.6						

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40°00.5' North, 105° 16.25' West, h = 1654 m.

Seismographs: 1 Benioff short-period vertical
2 Benioff short-period horizontal

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QUARTERLY BULLETIN
(July, August, September, 1956)

JULY, 1956

<u>Date</u>	<u>Phase</u>	Time (G C T)			<u>Date</u>	<u>Phase</u>	Time (G C T)		
July 3	i e	00 15	39 52	31.5 45	July 17	e i i i e e e	04 07 07 08 08 15 22	49 52 55 02 38 29 38	23 17.3 41.3 11.3 36 32 28
4	i i	00 11	52 20	06.5 27.7					
5	e e i i	06 08 13 14	04 28 08 08	42 41 08 46.3	18	e i e i	00 03 06 06	41 34 34 38	33 52 38 09
6	i e e e	02 03 08 13	25 34 16 43	47 12 57 38	19	i e	15 23	44 33	27.8 26
8	e i i	02 02 12	05 50 06	15 52 35	20	e	07	50	13
9	i e e e e i e	03 03 05 06 06 10 10	24 37 56 32 35 02 34	47.7 12 35 15 55 55 01	21	e i e i	00 15 15 15	20 01 51 52	51 20.3 14 25.7
10	i i i e	03 06 06 18	14 07 34 08	34.4 22 48 24	22	i i e	03 09 18	42 36 59	07 01 16
11	i	11	37	40.4	23	e i e	07 08 20	55 07 36	04 13.6 35
12	e e	02 02	36 55	15 54	24	e i e	13 13 19	12 12 15	22 23 24
13	e	13	47	35	26	e	09	55	48
14	i e	03 17	43 19	38 14	27	e e	21 23	50 59	11 10
15	i e i e	01 10 13 18	59 13 04 51	08 21 28 26	28	e i i	01 11 11	21 22 30	41 23 07
16	e e e i	00 09 10 21	42 34 51 43	45 47 30 01.8	29	e e e	07 08 13	33 42 34	29 32 52
					30	e e	09 10	28 25	09 32

AUGUST, 1956

<u>Date</u>	<u>Phase</u>	Time (G C T)			<u>Date</u>	<u>Phase</u>	Time (G C T)		
August 1	i	06	55	45.5	August 18	e	06	48	12
	i	07	08	54					
	e	17	45	25	19	e	05	30	39
	e	20	35	32		e	09	01	45
2	e	01	14	17	20	i	05	41	22.5
	i	07	19	13.5		i	05	46	49.5
	i	07	29	53		e	07	13	56
3	e	07	44	26		e	07	27	33
4	i	13	38	49.4		i	07	27	34
6	e	07	30	37		e	09	49	47
8	e	07	41	45	21	e	11	36	51
9	e	03	16	32	22	e	18	45	10
	e	06	31	18	23	e	04	51	03
	e	17	07	34		e	13	59	01
	i	17	07	36	24	e	00	13	11
10	i	23	12	55		i	04	37	08
	e	23	39	02		i	04	59	33.3
	i	23	39	11		i	05	10	05
11	i	13	24	15		i	08	51	43.7
	i	00	38	14		e	12	22	23
12	e	17	12	13		e	19	23	14
	e	21	26	38	25	e	16	00	38
13	e	07	15	38		e	19	43	19
14	e	03	09	46	26	i	16	57	54.5
	e	13	05	53		e	17	14	26
15	i	05	42	22.3	27	i	13	15	31.5
	e	11	10	00		e	18	07	50
	i	11	10	02.8		i	18	07	55
	i	11	20	08	29	i	03	14	51
	i	12	15	17	30	e	04	32	11
	i	13	12	46		i	05	28	41
	e	13	23	29		i	18	20	24
	i	13	23	32	31	e	09	41	24
	i	13	29	20.8		e	22	16	41
	e	17	11	46		e	23	19	54
16	e	02	21	02					
	e	08	19	14					
17	e	01	31	20					
	e	01	34	52					
	e	01	50	41					
	e	02	08	14					
	e	06	02	56					
	e	08	13	36					
	e	09	19	28					

SEPTEMBER, 1956

<u>Date</u>	<u>Phase</u>	Time	(G C T)
September 1	e	00	34 52
	i	00	34 54
	e	16	25 23
	e	18	33 11
	e	19	38 11
	e	20	51 12
3	i	03	26 44
	e	08	10 23
	e	21	55 14
	e	21	55 17
4	i	07	37 32
	e	08	37 09
	i	12	08 14
5	e	11	57 57
6	e	01	38 32
	i	04	39 18
	i	08	59 53.6
	i	10	49 38.6
	e	11	59 50
7	i	04	06 41
8	e	05	41 53
	e	08	07 37
	i	18	17 53.5
9	e	15	26 36
	i	18	31 26
10	i	11	31 32.3
	i	11	53 48
	i	14	10 47.5
	i	23	05 00.5
	i	23	06 44
11	e	01	45 35
	e	09	00 32
	e	21	14 49

<u>Date</u>	<u>Phase</u>	Time	(G C T)
September 12	i	10	30 47.6
	i	13	38 39.5
	i	19	55 13
	i	20	10 43.5
14	e	06	22 38
	e	12	19 48
	i	13	11 41
15	e	00	12 33
	i	07	50 04
	e	08	18 14
16	e	13	39 05
	e	20	36 22
17	e	04	35 50
	e	20	40 22
	i	20	41 26
	e	23	41 23
18	i	09	59 15.5
21	e	09	21 09
	e	19	22 27
	e	23	07 01
23	e	08	54 56
24	i	06	17 11.5
	i	11	35 58
26	e	05	16 46
	i	13	56 02.5
29	e	09	22 54
	e	10	55 16
	e	11	41 37
	i	21	33 12
	i	23	33 19
	e	23	56 04
30	e	02	46 42
	e	14	58 59

UNIVERSITY OF COLORADO
SEISMOLOGICAL OBSERVATORY

Department of Geology, Boulder, Colorado
40°00.5' North, 105° 16.25' West, h = 1654 m.

Seismographs: 1 Benioff short-period vertical
2 Benioff short-period horizontal

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QUARTERLY BULLETIN
(October, November, December, 1956)

OCTOBER, 1956

<u>Date</u>	<u>Phase</u>	<u>Time</u> h	(G m	C	T) s	<u>Date</u>	<u>Phase</u>	<u>Time</u> h	(G m	C	T) s
October 1	e	18	11	16		October 18	e	07	19	11	
2	e	07	56	01		19	i	01	38	40	
	e	15	06	46			i	12	12	44	
	e	15	57	27			e	20	56	48	
3	i	01	14	38.5		20	e	00	02	23	
	e	03	36	50			e	03	39	33	
	e	08	29	42		21	e	08	43	33	
	e	20	22	42			e	09	03	38	
6	i	17	12	57		22	e	07	35	32	
7	e	06	59	42			e	11	36	16	
	e	15	08	40			e	11	57	57	
8	e	01	53	43			e	21	48	17	
9	e	06	32	31		23	e	03	07	48	
	i	11	02	49			e	04	31	20	
11	i	02	35	44.7			e	08	14	56	
	i	16	52	33			i	08	59	52	
	i	17	26	12			e	09	00	33	
12	e	02	48	04			e	10	14	36	
	e	09	47	14		24	i	11	08	56.4	
	e	12	34	38			i	14	48	45.7	
13	e	04	56	35			e	16	38	50	
	e	05	12	50		25	i	05	28	17	
	e	07	42	41			e	10	21	51	
	i	15	23	17		26	e	03	00	18	
	e	16	53	38			e	09	13	23	
	e	17	18	48		27	e	15	39	25	
	i	19	30	36		28	e	09	24	39	
16	e	10	53	28							

NOVEMBER, 1956

<u>Date</u>	<u>Phase</u>	<u>Time</u> h	(G m	C	T) s	<u>Date</u>	<u>Phase</u>	<u>Time</u> h	(G m	C	T) s
November 2	e	10	41	40		November 18	e	09	27	31	
	e	16	17	24			19	i	12	15	46
3	e	05	32	08			20	e	11	22	26
	i	10	52	13			i	12	17	34	
	e	18	14	34			21	i	07	45	39.5
4	i	05	49	40.5			e	22	12	18	
	e	07	18	43			22	i	08	40	05
	i	08	47	39			23	i	10	09	01.5
6	e	14	31	25			24	i	02	07	18.3
	e	23	23	08			e	23	11	56	
9	e	06	11	24			25	i	14	25	46
	i	13	11	24			i	15	27	56.5	
10	e	00	15	05			26	i	03	12	37
	e	09	09	59			e	04	15	33	
11	e	19	26	54			i	05	38	20	
12	i	08	26	01			i	19	01	21	
13	i	10	15	06.4			28	e	09	24	39
14	e	14	35	41			i	19	38	04.5	
16	e	03	26	16			29	i	09	28	21.5
	e	06	32	34			e	10	04	31	
	e	08	28	19			30	e	11	42	37
	e	12	02	04			e	16	46	35	
17	i	09	28	45			e	17	39	51	
	e	13	40	27			i	19	42	23.5	
	i	20	32	34							

DECEMBER, 1956

<u>Date</u>	<u>Phase</u>	Time h	(G m	C s	T)	<u>Date</u>	<u>Phase</u>	Time h	(G m	C s	T)
December 1	e	21	35	37		December 19	e i	01 04	28 48	48 28.5	
2	e	03	08	11		21	i e e	09 18 20	03 23 22	41 43 43	
3	e e e e e	04 07 07 07 08	05 20 28 53 11	14 55 18 08 01		22	e i	03 23	33 25	26 15.5	
4	i e i e i e e e i	08 09 10 10 10 12 13 23 23	55 01 20 50 50 07 33 07 07	15.5 24 34 17 22 32 40 12 14.5		23	i	08	50	24	
8	e e i i i e	03 14 14 16 16 16	40 12 12 19 25 32	43 16 33 30 35 32		24	i e	04 12	41 22	08 29	
10	e i	08 23	09 26	52 33.5		25	e i	06 09	38 43	54 00	
11	e i	06 06	41 42	46 00		26	e e	19 23	12 52	13 06	
13	e	13	18	35		27	i e e	00 00 13	26 52 00	57.7 32 13	
14	e e	15 18	24 25	42 27		28	e i	14 19	43 25	01 59	
15	i	23	20	47		29	e i e e	01 09 11 20	56 47 37 35	38 46.5 29 11	
16	i e	01 06	49 44	44.7 56		30	e e	00 09	19 51	17 13	
18	e e e	02 06 21	42 57 25	05 06 20		31	e e	04 17	52 40	41 19	