

1954 complete
1955



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

Quarterly Bulletin; January, February, March, 1954

JANUARY, 1954					JANUARY, 1954				
Date 1954	Phase	(G C T) h m s			Date 1954	Phase	(G C T) h m s		
Jan 1	i P	13 23 16			Jan 18	e P	00 03 30		
Jan 2	i P	19 36 17				i P	10 06 02		
Jan 3	i P	06 07 53			Jan 20	e P	04 22 49		
	e P	09 52 16				e P	08 58 37		
Jan 4	e P	11 23 39				e P	14 02 57		
Jan 5	e P	07 27 54				i P	20 50 26.5		
Jan 6	i P	16 03 43			Jan 21	e P	09 24 56		
Jan 7	e P	07 02 19			Jan 22	e P	11 24 46		
	i P	09 58 00				e P	23 33 39		
Jan 9	i P	01 50 54			Jan 24	e P	01 57 22		
	e P	01 50 55			Jan 25	i P	16 12 54.5		
Jan 12	i P	23 36 47				e P	19 29 46.5		
Jan 13	i P	00 32 48.5			Jan 26	i P	04 58 38.5		
Jan 14	e P	15 19 07.5			Jan 27	i P	02 54 50.8		
	e P	19 45 37.5				i P	10 36 14.5		
Jan 15	e P	13 11 30				i	10 36 32.5		
	i P	23 43 22.3				e P	14 22 41		
	e	23 46 44				i P	18 21 17.8		
Jan 16	i P	22 5 50 00			Jan 28	e P	07 16 32		
Jan 17	e P	03 16 01				e P	08 06 11		
	e P	03 16 31				e P	22 20 07		
	i P	11 58 36.5				e P	22 55 07		
	i P	17 59 05.5			Jan 29	i P	10 54 03.7		
	i P	20 52 43			Jan 31	e P	08 14 06		
	i P	23 25 52				e P	11 53 55		
	e P	23 32 43							

February, 1954

Date 1954	Phase	(G C T)			Date 1954	Phase	(G C T)		
		h	m	s			h	m	s
Feb 1	i P	01	19	53	Feb 16	i P	18	31	47.5
	e	01	33	12					
	e P	03	34	11	Feb 17	e P	01	49	19
	i P	04	26	39		e P	03	47	04
	e	04	27	25		e P	09	08	24
	e	04	29	48		i P	11	47	25
	i P	04	34	44		e	11	52	13
	e P	05	12	50					
	i P	13	08	13.3	Feb 19	i P	00	47	03.7
	e P	22	17	32		i P	01	15	42.2
Feb 2	e P	16	58	42.5		i P	19	21	19
	i P	17	54	54		e P	21	41	15
Feb 3	e P	18	35	13.5		i P	23	40	59.5
Feb 5	e P	09	33	44.5	Feb 20	e P	02	01	17
	i P	13	16	57.5		e	02	03	19
	i P	15	23	20.5		i P	02	07	22
	e P	17	15	13.5		e P	04	34	28
	i P	22	17	09.5		e P	09	45	26
Feb 7	i P	09	51	23		e P	13	17	22
	e P	06	28	51		i P	18	53	05
	e P	06	53	32		i P	20	01	30
	e P	21	52	08		e P	21	41	56
Feb 8	i P	00	40	11.3	Feb 21	e P	01	35	43
	i P	10	18	30.3		e P	04	32	52
	e P	12	36	57		i P	16	17	31.5
	i P	14	30	16.8		e P	20	21	43.5
Feb.9	i P	09	04	09		e S	20	22	23
	e P	13	58	42		e P	22	09	15
	e P	17	47	36		i P	23	45	54
	e P	23	37	09	Feb 22	i P	06	23	59.5
Feb 10	e P	23	43	53		i P	10	39	43
Feb 12	e P	09	47	08		i P	12	22	08
	i P	10	19	20.5		i P	13	14	36
	e P	21	44	17	Feb 23	e P	22	01	10
Feb 13	e P	06	07	37	Feb 24	e P	10	29	37
Feb 14	e P	06	10	35		i P	12	26	16
	e P	06	50	53		e P	17	38	58
	i P	10	55	18.5	Feb 25	i P	11	21	59
Feb 15	i P	03	30	25		i P	11	59	28.5
	e	03	32	06		e P	18	05	29
	i P	09	40	16.5		eP	22	22	55
	i P	12	08	21		e P	24	04	15
	e P	19	59	57	Feb 26	i P	22	24	37
Feb 16	e P	13	31	03	Feb 27	e P	11	18	55.5
					Feb 28	e P	01	08	52
						i P	18	57	24

March 1954

Date 1954	Phase	(G C T) h m s	Date 1954	Phase	(G C T) h m s
March 3	e P	06 17 35	March 19	i P	08 24 20
	e	06 21 35		i P	09 57 09.5
	i P	07 54 59.5		i P	10 23 55.5
	e P	08 08 31			
	e	08 11 23	March 20	e P	04 22 00
	e P	15 40 05		e P	14 15 02
	i P	18 43 13.3			
	i P	20 52 42.2	March 21	e P	00 51 44
March 4	i P	11 37 18.8		e P	05 54 18
	e P	22 43 26		i P	06 19 50.5
March 5	e P	11 46 40		e P	20 49 20
March 6	i P	00 41 54		e P	23 56 42
	e P	18 34 30	March 22	e P	09 52 05
	i P	19 26 25		i P	17 16 08.2
	e P	19 50 27		i P	19 08 09.5
	e P	22 04 11	March 23	e P	04 17 35
March 7	e P	23 05 29.5		e P	12 33 07
	e P	23 47 11.5	March 25	i P	03 46 23.5
March 8	i P	13 49 51.5	March 26	i P	04 47 23
	i P	18 12 09.5		i P	09 47 47.5
	i P	22 50 18.5		i P	10 58 54
March 9	e P	02 33 45		i P	18 42 24
	e P	06 18 48	March 27	i P	11 45 27.5
	i P	05 50 04		e P	18 30 29
	e P	10 37 27.5	March 28	e P	13 26 01
	i P	11 19 40		i P	17 18 51.2
March 10	e P	14 17 41		e P	19 30 27.5
March 11	e P	10 36 04		e P	20 43 12.5
March 12	i P	11 30 57.5		e P	20 45 46.5
	e P	11 36 25		e P	21 07 28.5
March 13	e P	18 37 18.5	March 29	e P	04 18 49
March 14	e P	09 05 27.5		i P	06 27 47
	e P	17 54 57		i P	14 07 12
March 16	i P	01 10 24.5	March 30	e P	10 57 59
	i P	05 37 45.5		e P	16 48 38.5
March 17	i P	13 06 00.5		e P	18 50 19.5
			March 31	e P	02 20 04.5
				e P	08 42 18.5
				e P	14 02 02.5
				e P	18 44 50.5

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

QUARTERLY BULLETIN

APRIL 1954

Date	Phase	(G C T)			Date	Phase	(G C T)		
		h	m	s			h	m	s
April 1	e	02	29	50.	April 17	e	12	21	55
	i	14	16	21.8		i	20	19	41
	e	18	29	49		e	20	55	19
	i	23	16	40.5		i	21	05	43
April 2	e	15	11	49		i	23	04	43
April 3	e	00	15	07	April 18	i	01	20	57
	i	01	31	08		e	19	45	32
	e	08	07	56	April 19	e	00	32	17
	e	14	11	48		e	08	22	47
	i	21	45	41.8	April 20	e	08	22	47
April 4	e	13	32	27		i	10	01	05.0
	i	23	25	56.7		e	10	10	57
April 5	i	18	03	33	April 21	i	20	32	58.8
	e	19	30	21		e	10	47	55
	e	19	39	17	April 22	e	10	47	55
April 7	e	06	40	51		e	10	53	40
	e	16	50	34	April 23	e	10	53	40
April 9	e	03	18	02		i	08	39	46
	i	06	27	49.5	April 24	i	03	55	01.6
	i	10	23	10.5		e	04	05	04
	e	15	07	44		i	04	05	09
	e	03	18	02		i	10	03	41.0
	i	10	23	10.5		i	18	22	24.2
	e	15	07	44		e	20	36	41
	e	15	07	44		i	20	36	50
April 10	e	03	18	02	April 25	e	02	23	05
	i	10	23	10.5		e	09	25	15
	e	15	07	44		i	10	48	25.2
April 11	i	02	25	41.8	April 26	i	20	35	13.7
	i	05	51	30		i	10	14	00.5
	e	10	44	26.5		i	11	08	54
	e	11	07	14.5	April 27	e	21	40	49
	e	12	53	05		e	11	17	25
April 13	i	07	47	56		i	11	17	32.8
	e	08	02	41	April 28	e	23	18	42
April 14	i	07	55	56.0		i	10	52	34.2
	e	13	43	54		e	11	37	39
April 15	e	04	09	55	April 29	i	11	37	41.8
	i	04	47	34.5		e	13	15	47
	i	07	56	17.3	April 30	e	12	07	16
	i	08	45	42.3		i	12	11	14.0
April 16	i	08	30	11.3		i	13	15	26.7
	i	10	42	16.3					

May 1954

Date	Phase	(G C T)			Date	Phase	(G C T)		
		h	m	s			h	m	s
May 2	i	18	07	21	May 23	i	04	21	35.8
						e	23	55	39
May 3	e	15	40	12	May 24	i	07	31	51.5
	i	15	40	20.5		i	08	28	00.5
May 4	i	18	22	23.7	May 26	i	01	53	34.7
	e	19	23	15					
May 5	e	11	04	34	May 27	i	07	03	18.2
	i	11	04	44.5		e	10	38	02
	i	13	13	04.8	May 28	i	08	06	20.2
	i	17	23	57		i	10	15	30.2
May 6	i	09	12	53.8		i	13	35	37
	e	09	41	29		e	23	55	39
	i	21	07	57	May 29	e	00	46	02
May 8	i	00	32	19		i	05	49	24.6
May 9	i	14	23	55.5		i	05	51	31
	i	22	35	02.5		e	10	47	33
May 10	i	14	42	37.0		i	12	22	08.2
May 12	e	05	16	53		i	15	09	39.3
	i	08	12	58.5	May 30	e	04	50	53
	i	09	19	37		i	04	50	58.6
	e	12	18	53.5	May 31	e	16	07	50
	i	12	18	58.5					
May 13	i	14	51	54					
May 14	i	22	51	37.0					
May 15	e	13	05	39					
	i	13	05	53.5					
	i	23	31	01.7					
May 18	e	05	20	59					
May 19	i	06	49	42.8					
	i	09	46	42					
May 21	i	09	59	27.5					
May 22	i	11	36	58					

JUNE 1954

Date	Phase	(G C T)			Date	Phase	(G C T)		
		h	m	s			h	m	s
June 1	i	20	42	41.5	June 19	e	02	09	46
June 2	e	08	09	12		i	02	09	55.8
	e	12	09	31		i	03	35	17.8
June 4	i	06	58	37.8		e	22	12	43
	e	16	05	12	June 20	e	22	20	48
	i	16	05	24.5		i	22	21	06
	e	20	46	05.4	June 21	i	01	59	53.5
June 5	i	01	53	24.0		i	02	25	50.5
	i	04	42	25.2		i	02	35	46
	i	13	26	50.3		i	09	07	22.0
	e	22	54	30		e	14	34	49
June 6	i	14	43	34.5	June 22	e	19	15	09
	e	17	09	19.5	June 24	i	08	11	04.3
	i	17	09	26.5	June 25	e	05	30	07.5
	i	22	11	21.5		i	05	30	09.4
June 7	e	10	28	44.5	June 26	e	10	50	01
	i	10	33	02.2		i	12	03	50.4
June 8	e	17	04	25.5	June 28	i	23	32	29.0
June 9	e	05	16	55	June 29	i	01	21	50.0
June 10	i	04	48	59	June 30	e	13	45	53
	i	18	48	43		i	15	22	14.5
	i	22	50	09					
June 11	i	17	05	21					
June 12	i	05	47	16.3					
June 13	e	17	40	56					
	e	23	18	40					
June 14	i	10	15	56.4					
June 15	e	06	50	26.5					
	i	13	39	03					
June 17	i	01	49	25.0					
	e	12	54	07					
	i	12	54	30.5					
	i	13	17	34.5					

OCT 1 0 1955

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

QUARTERLY BULLETIN
(July, August, September, 1954)

July, 1954

<u>Date</u>	<u>Phase</u>	(G C T)		
		h	m	s
July 2	e	03	02	53
	i	10	45	24.8
	e	11	43	39
July 3	e	22	01	08
	e	22	50	30
July 4	e	07	19	20
	e	07	29	41
	e	16	34	26
	i	16	34	44.3
July 5	i	14	02	55.7
	i	14	03	11.7
July 6	i	08	15	40.5
	e	08	32	35.5
	e	11	15	48.5
	i	11	15	50.0
	e	11	51	32.5
	e	13	17	44.5
	i	22	10	13.2
July 7	e	01	32	18
	i	01	32	31.5
July 8	e	02	16	29
	i	02	16	42
	e	04	10	50
	i	04	11	00
	i	12	57	43
	e	19	34	29
	e	21	01	54
July 9	e	08	52	31
	e	12	33	09
	i	12	33	35
	e	15	50	00
	i	18	40	39.5
July 10	e	16	13	10
July 11	i	15	00	02.2
	e	07	07	15
	e	10	00	46
	i	10	01	08.5
July 13	e	07	00	42
	i	07	00	50.8
	i	11	47	52.5
July 15	e	08	51	05
	i	13	29	44

<u>Date</u>	<u>Phase</u>	(G C T)		
		h	m	s
July 16	e	03	11	33
	i	03	11	50
	e	09	12	00
	i	12	53	41
July 17	e	11	30	25
July 18	i	01	01	28.7
	i	06	44	46.6
	i	09	20	05.7
July 19	e	11	15	01
	i	11	15	20
July 21	e	08	54	37
	i	14	02	59
July 23	i	04	45	21.4
July 24	e	09	49	04
	i	09	49	29.2
	e	10	14	50
	i	10	15	15.3
	e	11	13	33
	i	11	13	58.7
July 26	e	18	18	10.5
	e	19	17	41.5
	i	20	28	27.7
	i	22	20	10
July 27	e	06	56	52.5
	i	06	56	58
	e	18	42	23
	i	18	42	29
	e	21	08	07
July 28	e	08	32	17
July 29	i	03	34	20
	i	03	45	02.3
	e	04	17	07
	i	05	53	04.5
	e	06	41	32
	i	22	29	24
July 30	e	02	02	41
	i	02	02	49.5
	e	08	57	54.5
	i	08	57	57
July 31	e	01	13	31
	e	17	26	47
	i	23	33	41.2

August, 1954

<u>Date</u>	<u>Phase</u>	(G C T)		
		h m s		
August 1	i	03 52	22.8	
	i	09 35	46.3	
	i	09 46	57	
August 2	i	09 09	29.9	
	i	10 21	22.3	
	e	23 40	27	
	i	23 40	34.3	
August 3	e	18 31	10	
August 4	e	11 12	13	
	e	14 00	20	
August 5	e	05 05	26	
	e	08 59	09	
August 6	e	16 31	44.5	
	e	19 33	39.5	
	i	19 33	47	
August 7	i	09 48	15.7	
	i	18 07	17	
August 9	i	19 27	06	
August 10	i	01 06	04	
August 11	e	03 52	16	
	e	07 39	05	
	i	11 19	42.5	
August 12	e	11 45	16	
	e	23 28	40	
	i	23 28	42.4	
August 14	e	01 47	10.5	
	e	08 03	02	
August 15	i	05 50	22.5	
August 17	i	05 49	16.5	
	e	08 46	52	
August 18	i	04 55	07.4	
	e	15 12	03.5	
	e	22 59	20	
August 19	e	15 15	28	

<u>Date</u>	<u>Phase</u>	(G C T)		
		h m s		
August 20	i	19 31	02.3	
	e	23 08	36	
August 21	e	00 34	56	
	i	02 52	11.5	
	e	04 22	33	
	e	07 10	38	
	i	07 29	37.0	
	e	23 00	14	
	i	23 00	26	
August 22	i	03 01	01.8	
	e	10 17	19	
	i	12 48	59.4	
	i	14 21	35.5	
August 23	i	09 41	59	
	e	10 17	19	
	i	12 48	59.4	
	i	14 21	35.5	
August 23	i	09 41	59	
	i	12 11	46.2	
	e	15 04	14	
August 24	i	05 54	01.4	
August 25	i	02 19	33	
	e	20 23	44	
	e	02 23	39	
August 26	e	12 46	42	
	e	12 58	44	
	e	13 51	10	
August 27	e	03 29	44.5	
	i	11 07	54	
August 28	e	04 00	57.5	
	i	10 13	45.4	
August 29	e	03 43	35.5	
	i	03 43	49.2	
	e	04 00	32.5	
	i	04 00	48.7	
August 30	i	09 08	57	
August 31	e	22 22	11.5	

September, 1954

<u>Date</u>	<u>Phase</u>	(G	C	T)		<u>Date</u>	<u>Phase</u>	(G	C	T)
		h	m	s						
September 1	i	05	21	17.2		September 16	e	04	47	57
	e	11	31	49						
	i	12	36	41.2		September 17	e	01	31	09
September 2	e	07	55	45			e	07	47	21
	e	13	29	22			e	11	15	54
	e	19	04	50			e	11	41	34
September 3	e	03	20	03			i	12	14	40.2
September 4	e	20	18	43			i	18	10	07.5
September 5	e	07	58	55		September 18	e	15	44	39
September 6	i	18	41	21.7			i	18	35	45.5
	e	19	10	03		September 19	e	00	18	49
	i	19	10	15.2			e	00	58	31
September 7	i	07	26	32.5			e	08	18	08
September 9	e	01	14	58		September 21	e	00	17	27
	i	01	15	46.2			i	03	02	20.5
	i	01	16	44.2			e	03	38	07
	i	03	04	28.3			e	03	59	17.5
	e	03	50	35		September 22	e	13	39	31
	i	09	40	47.7		September 23	i	05	06	50.4
	e	22	34	23			e	21	54	26
September 10	i	05	56	09		September 25	e	07	11	00.5
	e	06	28	19			e	19	29	26.5
September 12	e	05	19	38		September 27	i	04	20	51.5
	i	07	55	52			e	16	50	14
	e	08	05	21			e	19	23	11
September 13	i	02	13	25			e	22	48	17
	i	02	22	42		September 28	e	00	35	32
	e	08	01	32			i	13	05	37.7
September 14	i	16	27	14.7			e	23	36	40
September 15	i	06	46	52.7		September 29	i	08	36	51.7
	e	06	59	31						
	e	13	23	47						
	i	14	38	16.5						
	i	18	08	08						

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

QUARTERLY BULLETIN
(October, November, December, 1954)

October, 1954

<u>Date</u>	<u>Phase</u>	(G C T)				<u>Date</u>	<u>Phase</u>	(G C T)		
		h	m	s						
October 1	i	07	02	18.5		October 18	e	11	03	57
	e	12	26	30		October 19	e	17	57	01
October 2	i	10	12	59.5		October 23	i	00	56	31
October 3	e	03	00	52			e	18	20	57
	i	08	52	09.5		October 24	i	09	47	06
	i	11	25	32			e	11	24	01
	i	13	47	10			i	11	24	28
	e	23	41	41			e	14	09	05
October 4	i	04	30	51.2			e	16	53	20
	e	11	40	34			i	16	53	32
October 6	e	08	30	35		October 26	i	19	25	36.2
	i	13	37	39.7			e	20	37	02
October 7	i	08	17	00.5		October 27	e	03	31	47
October 8	e	09	26	45			e	10	02	44
	i	10	57	37.5			e	10	39	52
October 9	e	17	28	21			i	10	39	56.7
	i	18	39	14		October 28	i	01	19	00
October 10	e	23	29	28.5		October 29	i	09	12	24
October 11	i	16	22	03.5		October 30	e	02	06	01
October 12	i	19	35	35.6			i	02	08	10.5
October 13	e	06	09	59			e	12	21	11
October 14	e	01	54	01			i	15	22	47.5
October 17	i	15	13	52		October 31	e	02	47	22
	e	23	00	21			i	02	47	36.2
	i	23	00	24.5			i	08	10	32
							e	09	22	13
							i	09	22	24

November, 1954

<u>Date</u>	<u>Phase</u>	(G	C	T)	
		h	m	s	
November 1	i	21	02	18.5	
November 2	i	08	34	34.3	
	i	08	43	23.3	
November 3	e	03	23	29	
November 5	i	09	17	47	
	i	13	17	59	
	i	18	29	04	
	e	22	57	04	
November 7	i	05	32	04	
	e	07	16	24	
	e	14	47	22	
	i	14	47	35	
November 8	e	00	54	46	
	i	00	54	56	
	e	05	04	36	
November 10	i	07	34	54	
November 11	e	13	10	45	
	i	13	10	52.5	
November 12	i	12	29	44	
	e	22	01	18	
November 14	i	05	42	50	
	e	16	51	45	
	e	17	37	57	
November 15	e	00	43	20	
	e	05	04	47	
	i	09	54	51.5	
	e	10	42	59	
	i	16	39	32.3	
	i	16	40	18.3	
	i	16	43	10.3	
November 16	i	12	11	26.3	
	e	12	18	44	
November 17	i	11	58	14.5	
	i	17	30	27.6	

<u>Date</u>	<u>Phase</u>	(G	C	T)	
		h	m	s	
November 18	e	05	26	32	
	i	05	30	48.3	
	i	20	57	08.8	
November 19	i	06	07	38	
November 20	i	07	12	55	
November 21	i	07	47	02	
November 22	i	06	35	06.5	
	i	10	10	04	
	i	10	37	27	
November 23	e	15	03	33	
	e	21	23	18	
November 24	i	09	58	00.5	
November 25	i	09	11	10	
	i	11	20	16	
	i	12	16	52	
	i	20	54	32.8	
	i	21	45	52.5	
	i	21	48	11.2	
November 26	e	16	08	55	
November 27	i	08	14	22.7	
November 29	i	01	49	25.3	
November 30	e	06	53	01	
	i	06	53	08.4	

December, 1954

<u>Date</u>	<u>Phase</u>	(G C T)			<u>Date</u>	<u>Phase</u>	(G C T)		
December 2	e	04	54	02	December 18	e	01	13	40
	e	08	11	58		e	01	48	06
	e	09	08	39		i	01	48	24.6
	e	09	58	01		e	19	34	45
December 3	i	08	49	59	December 19	i	04	02	24
December 4	i	02	06	41.7		e	06	50	19
	e	07	14	29		i	10	34	44.2
	i	18	39	49.4	December 20	e	01	49	59
December 6	i	12	06	37.5		e	02	30	00
						e	15	51	32
December 7	i	06	29	34.3		e	17	39	12
December 8	i	06	38	43.7	December 21	i	19	59	50.5
December 10	i	00	43	57.5	December 24	e	04	10	44
	i	10	05	58.4		e	13	31	37
	e	12	09	35	December 25	e	01	35	59
	i	13	06	39.9		e	18	39	51
December 11	i	12	30	26.3	December 26	e	09	59	16
	e	13	06	04.5		i	18	16	29
	i	13	06	07		e	18	25	22
	e	16	32	59	December 27	i	05	44	53.5
December 12	e	14	47	06.5		e	07	16	18
	i	14	47	08.5		e	07	32	04
December 13	e	04	28	21		e	10	49	57
	e	12	57	28		i	19	16	38.5
	i	16	15	02	December 28	e	01	14	40
	e	21	06	41		i	01	18	52.5
December 14	e	17	20	48		e	02	35	38
						i	07	17	17
December 16	e	07	11	07	December 29	i	09	50	12
	i	11	09	39					
	e	12	49	50	December 30	e	09	19	36
	e	13	17	32		i	10	49	46
	e	14	19	28		i	11	40	33.5
	i	15	12	10.2	December 31	e	20	17	46
	e	16	02	41					
	e	21	51	14					
December 17	i	05	37	15					
	e	07	34	45					
	e	10	17	50					
	e	10	35	57					
	e	10	55	05					
	e	10	55	15					
	e	12	48	27					