

Astronomical Applications Department
 U. S. Naval Observatory
 Washington, DC 20392-5420

Saturn

BIG BEAR, CALIFORNIA

Location: W116°52'48.0", N34°14'24.0", 0m
 (Longitude referred to Greenwich meridian)

Time Zone: 8h 00m west of Greenwich

Date (Zone)	Rise Az.		Transit Alt.		Set Az.	
	h	m °	h	m °	h	m °
2019 Jan 01 (Tue)	06:56	117	11:53	33S	16:50	243
2019 Jan 02 (Wed)	06:52	117	11:49	33S	16:46	243
2019 Jan 03 (Thu)	06:49	117	11:46	33S	16:43	243
2019 Jan 04 (Fri)	06:45	117	11:42	33S	16:39	243
2019 Jan 05 (Sat)	06:42	117	11:39	33S	16:36	243
2019 Jan 06 (Sun)	06:38	117	11:35	33S	16:33	243
2019 Jan 07 (Mon)	06:35	117	11:32	33S	16:29	243
2019 Jan 08 (Tue)	06:31	117	11:29	33S	16:26	243
2019 Jan 09 (Wed)	06:28	117	11:25	33S	16:22	243
2019 Jan 10 (Thu)	06:24	117	11:22	33S	16:19	243
2019 Jan 11 (Fri)	06:21	117	11:18	33S	16:16	243
2019 Jan 12 (Sat)	06:18	117	11:15	33S	16:12	243
2019 Jan 13 (Sun)	06:14	117	11:11	33S	16:09	243
2019 Jan 14 (Mon)	06:11	117	11:08	33S	16:05	243
2019 Jan 15 (Tue)	06:07	117	11:05	33S	16:02	243
2019 Jan 16 (Wed)	06:04	117	11:01	33S	15:59	243
2019 Jan 17 (Thu)	06:00	117	10:58	33S	15:55	243
2019 Jan 18 (Fri)	05:57	117	10:54	33S	15:52	243
2019 Jan 19 (Sat)	05:53	117	10:51	34S	15:48	243
2019 Jan 20 (Sun)	05:50	117	10:47	34S	15:45	243
2019 Jan 21 (Mon)	05:46	117	10:44	34S	15:42	243
2019 Jan 22 (Tue)	05:43	117	10:41	34S	15:38	243
2019 Jan 23 (Wed)	05:39	117	10:37	34S	15:35	243
2019 Jan 24 (Thu)	05:36	117	10:34	34S	15:31	243
2019 Jan 25 (Fri)	05:32	117	10:30	34S	15:28	243
2019 Jan 26 (Sat)	05:29	117	10:27	34S	15:25	243
2019 Jan 27 (Sun)	05:25	117	10:23	34S	15:21	243
2019 Jan 28 (Mon)	05:22	117	10:20	34S	15:18	243
2019 Jan 29 (Tue)	05:18	117	10:16	34S	15:14	243
2019 Jan 30 (Wed)	05:15	117	10:13	34S	15:11	243
2019 Jan 31 (Thu)	05:11	117	10:09	34S	15:07	243
2019 Feb 01 (Fri)	05:08	117	10:06	34S	15:04	243
2019 Feb 02 (Sat)	05:04	117	10:03	34S	15:01	243
2019 Feb 03 (Sun)	05:01	117	09:59	34S	14:57	243
2019 Feb 04 (Mon)	04:57	117	09:56	34S	14:54	243
2019 Feb 05 (Tue)	04:54	117	09:52	34S	14:50	243
2019 Feb 06 (Wed)	04:50	117	09:49	34S	14:47	243
2019 Feb 07 (Thu)	04:47	117	09:45	34S	14:43	243
2019 Feb 08 (Fri)	04:43	117	09:42	34S	14:40	243
2019 Feb 09 (Sat)	04:40	117	09:38	34S	14:37	243
2019 Feb 10 (Sun)	04:36	117	09:35	34S	14:33	243
2019 Feb 11 (Mon)	04:33	117	09:31	34S	14:30	243
2019 Feb 12 (Tue)	04:29	117	09:28	34S	14:26	243
2019 Feb 13 (Wed)	04:26	117	09:24	34S	14:23	243
2019 Feb 14 (Thu)	04:22	117	09:21	34S	14:19	243
2019 Feb 15 (Fri)	04:19	116	09:17	34S	14:16	244
2019 Feb 16 (Sat)	04:15	116	09:14	34S	14:12	244
2019 Feb 17 (Sun)	04:12	116	09:10	34S	14:09	244
2019 Feb 18 (Mon)	04:08	116	09:07	34S	14:05	244
2019 Feb 19 (Tue)	04:04	116	09:03	34S	14:02	244
2019 Feb 20 (Wed)	04:01	116	09:00	34S	13:58	244
2019 Feb 21 (Thu)	03:57	116	08:56	34S	13:55	244
2019 Feb 22 (Fri)	03:54	116	08:53	34S	13:51	244
2019 Feb 23 (Sat)	03:50	116	08:49	34S	13:48	244
2019 Feb 24 (Sun)	03:47	116	08:45	34S	13:44	244
2019 Feb 25 (Mon)	03:43	116	08:42	34S	13:41	244
2019 Feb 26 (Tue)	03:39	116	08:38	34S	13:37	244

2019 Feb 27 (Wed)	03:36 116	08:35 34S	13:34 244
2019 Feb 28 (Thu)	03:32 116	08:31 34S	13:30 244
2019 Mar 01 (Fri)	03:29 116	08:28 34S	13:27 244
2019 Mar 02 (Sat)	03:25 116	08:24 34S	13:23 244
2019 Mar 03 (Sun)	03:21 116	08:21 34S	13:20 244
2019 Mar 04 (Mon)	03:18 116	08:17 34S	13:16 244
2019 Mar 05 (Tue)	03:14 116	08:13 34S	13:13 244
2019 Mar 06 (Wed)	03:11 116	08:10 34S	13:09 244
2019 Mar 07 (Thu)	03:07 116	08:06 34S	13:05 244
2019 Mar 08 (Fri)	03:03 116	08:03 34S	13:02 244
2019 Mar 09 (Sat)	03:00 116	07:59 34S	12:58 244

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BIG BEAR, CALIFORNIA

Location: W116°52'48.0", N34°14'24.0", 0m
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Time Zone: 7h 00m west of Greenwich

Date (Zone)	Rise Az.	Transit Alt.	Set Az.
	h m °	h m °	h m °
2019 Mar 10 (Sun)	03:56 116	08:55 34S	13:55 244
2019 Mar 11 (Mon)	03:52 116	08:52 34S	13:51 244
2019 Mar 12 (Tue)	03:49 116	08:48 34S	13:48 244
2019 Mar 13 (Wed)	03:45 116	08:45 34S	13:44 244
2019 Mar 14 (Thu)	03:41 116	08:41 34S	13:40 244
2019 Mar 15 (Fri)	03:38 116	08:37 34S	13:37 244
2019 Mar 16 (Sat)	03:34 116	08:34 34S	13:33 244
2019 Mar 17 (Sun)	03:30 116	08:30 34S	13:30 244
2019 Mar 18 (Mon)	03:27 116	08:26 34S	13:26 244
2019 Mar 19 (Tue)	03:23 116	08:23 34S	13:22 244
2019 Mar 20 (Wed)	03:19 116	08:19 34S	13:19 244
2019 Mar 21 (Thu)	03:16 116	08:15 34S	13:15 244
2019 Mar 22 (Fri)	03:12 116	08:12 34S	13:11 244
2019 Mar 23 (Sat)	03:08 116	08:08 34S	13:08 244
2019 Mar 24 (Sun)	03:05 116	08:04 34S	13:04 244
2019 Mar 25 (Mon)	03:01 116	08:01 34S	13:00 244
2019 Mar 26 (Tue)	02:57 116	07:57 34S	12:57 244
2019 Mar 27 (Wed)	02:53 116	07:53 34S	12:53 244
2019 Mar 28 (Thu)	02:50 116	07:49 34S	12:49 244
2019 Mar 29 (Fri)	02:46 116	07:46 34S	12:46 244
2019 Mar 30 (Sat)	02:42 116	07:42 34S	12:42 244
2019 Mar 31 (Sun)	02:38 116	07:38 34S	12:38 244
2019 Apr 01 (Mon)	02:35 116	07:35 34S	12:34 244
2019 Apr 02 (Tue)	02:31 116	07:31 34S	12:31 244
2019 Apr 03 (Wed)	02:27 116	07:27 34S	12:27 244
2019 Apr 04 (Thu)	02:23 116	07:23 34S	12:23 244
2019 Apr 05 (Fri)	02:20 116	07:20 34S	12:20 244
2019 Apr 06 (Sat)	02:16 116	07:16 34S	12:16 244
2019 Apr 07 (Sun)	02:12 116	07:12 34S	12:12 244
2019 Apr 08 (Mon)	02:08 116	07:08 34S	12:08 244
2019 Apr 09 (Tue)	02:04 116	07:04 34S	12:04 244
2019 Apr 10 (Wed)	02:01 116	07:01 34S	12:01 244
2019 Apr 11 (Thu)	01:57 116	06:57 34S	11:57 244
2019 Apr 12 (Fri)	01:53 116	06:53 34S	11:53 244
2019 Apr 13 (Sat)	01:49 116	06:49 34S	11:49 244
2019 Apr 14 (Sun)	01:45 116	06:45 34S	11:46 244
2019 Apr 15 (Mon)	01:42 116	06:42 34S	11:42 244
2019 Apr 16 (Tue)	01:38 116	06:38 34S	11:38 244
2019 Apr 17 (Wed)	01:34 116	06:34 34S	11:34 244
2019 Apr 18 (Thu)	01:30 116	06:30 34S	11:30 244
2019 Apr 19 (Fri)	01:26 116	06:26 34S	11:26 244
2019 Apr 20 (Sat)	01:22 116	06:22 34S	11:22 244
2019 Apr 21 (Sun)	01:18 116	06:18 34S	11:19 244
2019 Apr 22 (Mon)	01:14 116	06:15 34S	11:15 244
2019 Apr 23 (Tue)	01:11 116	06:11 34S	11:11 244
2019 Apr 24 (Wed)	01:07 116	06:07 34S	11:07 244
2019 Apr 25 (Thu)	01:03 116	06:03 34S	11:03 244
2019 Apr 26 (Fri)	00:59 116	05:59 34S	10:59 244

2019 Apr 27 (Sat)	00:55 116	05:55 34S	10:55 244
2019 Apr 28 (Sun)	00:51 116	05:51 34S	10:51 244
2019 Apr 29 (Mon)	00:47 116	05:47 34S	10:47 244
2019 Apr 30 (Tue)	00:43 116	05:43 34S	10:43 244
2019 May 01 (Wed)	00:39 116	05:39 34S	10:40 244
2019 May 02 (Thu)	00:35 116	05:35 34S	10:36 244
2019 May 03 (Fri)	00:31 116	05:32 34S	10:32 244
2019 May 04 (Sat)	00:27 116	05:28 34S	10:28 244
2019 May 05 (Sun)	00:24 116	05:24 34S	10:24 244
2019 May 06 (Mon)	00:20 116	05:20 34S	10:20 244
2019 May 07 (Tue)	00:16 116	05:16 34S	10:16 244
2019 May 08 (Wed)	00:12 116	05:12 34S	10:12 244
2019 May 09 (Thu)	00:08 116	05:08 34S	10:08 244
2019 May 10 (Fri)	00:04 116	05:04 34S	10:04 244
	24:00 116		
2019 May 11 (Sat)	23:56 116	05:00 34S	10:00 244
2019 May 12 (Sun)	23:52 116	04:56 34S	09:56 244
2019 May 13 (Mon)	23:48 116	04:52 34S	09:52 244
2019 May 14 (Tue)	23:44 116	04:48 34S	09:48 244
2019 May 15 (Wed)	23:40 116	04:44 34S	09:44 244
2019 May 16 (Thu)	23:36 116	04:40 34S	09:39 244
2019 May 17 (Fri)	23:32 116	04:35 34S	09:35 244
2019 May 18 (Sat)	23:27 116	04:31 34S	09:31 244
2019 May 19 (Sun)	23:23 116	04:27 34S	09:27 244
2019 May 20 (Mon)	23:19 116	04:23 34S	09:23 244
2019 May 21 (Tue)	23:15 116	04:19 34S	09:19 244
2019 May 22 (Wed)	23:11 116	04:15 34S	09:15 244
2019 May 23 (Thu)	23:07 116	04:11 34S	09:11 244
2019 May 24 (Fri)	23:03 116	04:07 34S	09:07 244
2019 May 25 (Sat)	22:59 116	04:03 34S	09:03 244
2019 May 26 (Sun)	22:55 116	03:59 34S	08:59 244
2019 May 27 (Mon)	22:51 116	03:55 34S	08:54 244
2019 May 28 (Tue)	22:47 116	03:51 34S	08:50 244
2019 May 29 (Wed)	22:43 116	03:46 34S	08:46 244
2019 May 30 (Thu)	22:39 116	03:42 34S	08:42 244
2019 May 31 (Fri)	22:35 116	03:38 34S	08:38 244
2019 Jun 01 (Sat)	22:30 116	03:34 34S	08:34 244
2019 Jun 02 (Sun)	22:26 116	03:30 34S	08:29 244
2019 Jun 03 (Mon)	22:22 116	03:26 34S	08:25 244
2019 Jun 04 (Tue)	22:18 116	03:22 34S	08:21 244
2019 Jun 05 (Wed)	22:14 116	03:18 34S	08:17 244
2019 Jun 06 (Thu)	22:10 116	03:13 34S	08:13 244
2019 Jun 07 (Fri)	22:06 116	03:09 34S	08:09 244
2019 Jun 08 (Sat)	22:01 116	03:05 34S	08:04 244
2019 Jun 09 (Sun)	21:57 116	03:01 34S	08:00 244
2019 Jun 10 (Mon)	21:53 116	02:57 34S	07:56 244
2019 Jun 11 (Tue)	21:49 116	02:52 34S	07:52 244
2019 Jun 12 (Wed)	21:45 116	02:48 34S	07:48 244
2019 Jun 13 (Thu)	21:41 116	02:44 34S	07:43 244
2019 Jun 14 (Fri)	21:37 116	02:40 34S	07:39 244
2019 Jun 15 (Sat)	21:32 116	02:36 34S	07:35 244
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2019 Jun 23 (Sun)	20:59 116	02:02 34S	07:01 244
2019 Jun 24 (Mon)	20:55 116	01:58 34S	06:57 244
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2019 Jun 29 (Sat)	20:34 116	01:37 34S	06:35 244
2019 Jun 30 (Sun)	20:30 116	01:32 34S	06:31 244
2019 Jul 01 (Mon)	20:25 116	01:28 34S	06:27 244
2019 Jul 02 (Tue)	20:21 116	01:24 34S	06:23 244
2019 Jul 03 (Wed)	20:17 116	01:20 34S	06:18 244
2019 Jul 04 (Thu)	20:13 116	01:15 34S	06:14 244
2019 Jul 05 (Fri)	20:09 116	01:11 34S	06:10 244
2019 Jul 06 (Sat)	20:04 116	01:07 34S	06:05 244
2019 Jul 07 (Sun)	20:00 117	01:03 34S	06:01 244
2019 Jul 08 (Mon)	19:56 117	00:58 34S	05:57 243
2019 Jul 09 (Tue)	19:52 117	00:54 34S	05:53 243

2019 Jul 10 (Wed)	19:48 117	00:50 34S	05:48 243
2019 Jul 11 (Thu)	19:43 117	00:46 34S	05:44 243
2019 Jul 12 (Fri)	19:39 117	00:42 34S	05:40 243
2019 Jul 13 (Sat)	19:35 117	00:37 34S	05:35 243
2019 Jul 14 (Sun)	19:31 117	00:33 34S	05:31 243
2019 Jul 15 (Mon)	19:26 117	00:29 34S	05:27 243
2019 Jul 16 (Tue)	19:22 117	00:25 34S	05:23 243
2019 Jul 17 (Wed)	19:18 117	00:20 34S	05:18 243
2019 Jul 18 (Thu)	19:14 117	00:16 34S	05:14 243
2019 Jul 19 (Fri)	19:10 117	00:12 34S	05:10 243
2019 Jul 20 (Sat)	19:05 117	00:08 34S	05:06 243
2019 Jul 21 (Sun)	19:01 117	00:03 34S	05:01 243
		23:59 34S	
2019 Jul 22 (Mon)	18:57 117	23:55 34S	04:57 243
2019 Jul 23 (Tue)	18:53 117	23:51 34S	04:53 243
2019 Jul 24 (Wed)	18:49 117	23:46 34S	04:48 243
2019 Jul 25 (Thu)	18:44 117	23:42 34S	04:44 243
2019 Jul 26 (Fri)	18:40 117	23:38 34S	04:40 243
2019 Jul 27 (Sat)	18:36 117	23:34 34S	04:36 243
2019 Jul 28 (Sun)	18:32 117	23:30 34S	04:31 243
2019 Jul 29 (Mon)	18:28 117	23:25 34S	04:27 243
2019 Jul 30 (Tue)	18:23 117	23:21 34S	04:23 243
2019 Jul 31 (Wed)	18:19 117	23:17 34S	04:19 243
2019 Aug 01 (Thu)	18:15 117	23:13 34S	04:14 243
2019 Aug 02 (Fri)	18:11 117	23:08 34S	04:10 243
2019 Aug 03 (Sat)	18:07 117	23:04 34S	04:06 243
2019 Aug 04 (Sun)	18:03 117	23:00 34S	04:02 243
2019 Aug 05 (Mon)	17:58 117	22:56 33S	03:58 243
2019 Aug 06 (Tue)	17:54 117	22:52 33S	03:53 243
2019 Aug 07 (Wed)	17:50 117	22:48 33S	03:49 243
2019 Aug 08 (Thu)	17:46 117	22:43 33S	03:45 243
2019 Aug 09 (Fri)	17:42 117	22:39 33S	03:41 243
2019 Aug 10 (Sat)	17:38 117	22:35 33S	03:37 243
2019 Aug 11 (Sun)	17:34 117	22:31 33S	03:32 243
2019 Aug 12 (Mon)	17:29 117	22:27 33S	03:28 243
2019 Aug 13 (Tue)	17:25 117	22:23 33S	03:24 243
2019 Aug 14 (Wed)	17:21 117	22:18 33S	03:20 243
2019 Aug 15 (Thu)	17:17 117	22:14 33S	03:16 243
2019 Aug 16 (Fri)	17:13 117	22:10 33S	03:11 243
2019 Aug 17 (Sat)	17:09 117	22:06 33S	03:07 243
2019 Aug 18 (Sun)	17:05 117	22:02 33S	03:03 243
2019 Aug 19 (Mon)	17:01 117	21:58 33S	02:59 243
2019 Aug 20 (Tue)	16:57 117	21:54 33S	02:55 243
2019 Aug 21 (Wed)	16:52 117	21:50 33S	02:51 243
2019 Aug 22 (Thu)	16:48 117	21:45 33S	02:47 243
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2019 Aug 24 (Sat)	16:40 117	21:37 33S	02:38 243
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2019 Aug 28 (Wed)	16:24 117	21:21 33S	02:22 243
2019 Aug 29 (Thu)	16:20 117	21:17 33S	02:18 243
2019 Aug 30 (Fri)	16:16 117	21:13 33S	02:14 243
2019 Aug 31 (Sat)	16:12 117	21:09 33S	02:10 243
2019 Sep 01 (Sun)	16:08 117	21:05 33S	02:06 243
2019 Sep 02 (Mon)	16:04 117	21:01 33S	02:02 243
2019 Sep 03 (Tue)	16:00 117	20:57 33S	01:58 243
2019 Sep 04 (Wed)	15:56 117	20:53 33S	01:53 243
2019 Sep 05 (Thu)	15:52 117	20:49 33S	01:49 243
2019 Sep 06 (Fri)	15:48 117	20:45 33S	01:45 243
2019 Sep 07 (Sat)	15:44 117	20:41 33S	01:41 243
2019 Sep 08 (Sun)	15:40 117	20:37 33S	01:37 243
2019 Sep 09 (Mon)	15:36 117	20:33 33S	01:33 243
2019 Sep 10 (Tue)	15:32 117	20:29 33S	01:29 243
2019 Sep 11 (Wed)	15:28 117	20:25 33S	01:25 243
2019 Sep 12 (Thu)	15:24 117	20:21 33S	01:21 243
2019 Sep 13 (Fri)	15:20 117	20:17 33S	01:17 243
2019 Sep 14 (Sat)	15:16 117	20:13 33S	01:13 243
2019 Sep 15 (Sun)	15:12 117	20:09 33S	01:09 243
2019 Sep 16 (Mon)	15:08 117	20:05 33S	01:05 243
2019 Sep 17 (Tue)	15:04 117	20:01 33S	01:02 243
2019 Sep 18 (Wed)	15:00 117	19:57 33S	00:58 243
2019 Sep 19 (Thu)	14:56 117	19:53 33S	00:54 243
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2019 Sep 22 (Sun)	14:45 117	19:41 33S	00:42 243
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2019 Sep 24 (Tue)	14:37 117	19:34 33S	00:34 243
2019 Sep 25 (Wed)	14:33 117	19:30 33S	00:30 243
2019 Sep 26 (Thu)	14:29 117	19:26 33S	00:26 243
2019 Sep 27 (Fri)	14:25 117	19:22 33S	00:22 243
2019 Sep 28 (Sat)	14:21 117	19:18 33S	00:19 243
2019 Sep 29 (Sun)	14:17 117	19:14 33S	00:15 243
2019 Sep 30 (Mon)	14:14 117	19:10 33S	00:11 243
2019 Oct 01 (Tue)	14:10 117	19:06 33S	00:07 243
2019 Oct 02 (Wed)	14:06 117	19:03 33S	00:03 243
			23:59 243
2019 Oct 03 (Thu)	14:02 117	18:59 33S	23:56 243
2019 Oct 04 (Fri)	13:58 117	18:55 33S	23:52 243
2019 Oct 05 (Sat)	13:54 117	18:51 33S	23:48 243
2019 Oct 06 (Sun)	13:51 117	18:47 33S	23:44 243
2019 Oct 07 (Mon)	13:47 117	18:44 33S	23:40 243
2019 Oct 08 (Tue)	13:43 117	18:40 33S	23:37 243
2019 Oct 09 (Wed)	13:39 117	18:36 33S	23:33 243
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2019 Oct 11 (Fri)	13:32 117	18:28 33S	23:25 243
2019 Oct 12 (Sat)	13:28 117	18:25 33S	23:22 243
2019 Oct 13 (Sun)	13:24 117	18:21 33S	23:18 243
2019 Oct 14 (Mon)	13:20 117	18:17 33S	23:14 243
2019 Oct 15 (Tue)	13:17 117	18:13 33S	23:10 243
2019 Oct 16 (Wed)	13:13 117	18:10 33S	23:07 243
2019 Oct 17 (Thu)	13:09 117	18:06 33S	23:03 243
2019 Oct 18 (Fri)	13:05 117	18:02 33S	22:59 243
2019 Oct 19 (Sat)	13:02 117	17:59 33S	22:56 243
2019 Oct 20 (Sun)	12:58 117	17:55 33S	22:52 243
2019 Oct 21 (Mon)	12:54 117	17:51 33S	22:48 243
2019 Oct 22 (Tue)	12:51 117	17:47 33S	22:44 243
2019 Oct 23 (Wed)	12:47 117	17:44 33S	22:41 243
2019 Oct 24 (Thu)	12:43 117	17:40 33S	22:37 243
2019 Oct 25 (Fri)	12:39 117	17:36 33S	22:33 243
2019 Oct 26 (Sat)	12:36 117	17:33 33S	22:30 243
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2019 Oct 29 (Tue)	12:25 117	17:22 33S	22:19 243
2019 Oct 30 (Wed)	12:21 117	17:18 33S	22:15 243
2019 Oct 31 (Thu)	12:17 117	17:14 33S	22:12 243
2019 Nov 01 (Fri)	12:14 117	17:11 33S	22:08 243
2019 Nov 02 (Sat)	12:10 117	17:07 33S	22:04 243

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	h	m °	h	m °	h	m °
2019 Nov 03 (Sun)	11:06	117	16:04	33S	21:01	243
2019 Nov 04 (Mon)	11:03	117	16:00	33S	20:57	243
2019 Nov 05 (Tue)	10:59	117	15:56	33S	20:54	243
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2019 Nov 09 (Sat)	10:45	117	15:42	33S	20:39	243
2019 Nov 10 (Sun)	10:41	117	15:38	33S	20:36	243
2019 Nov 11 (Mon)	10:37	117	15:35	33S	20:32	243
2019 Nov 12 (Tue)	10:34	117	15:31	33S	20:29	243
2019 Nov 13 (Wed)	10:30	117	15:28	33S	20:25	243
2019 Nov 14 (Thu)	10:26	117	15:24	33S	20:21	243
2019 Nov 15 (Fri)	10:23	117	15:20	33S	20:18	243
2019 Nov 16 (Sat)	10:19	117	15:17	33S	20:14	243
2019 Nov 17 (Sun)	10:16	117	15:13	34S	20:11	243
2019 Nov 18 (Mon)	10:12	117	15:10	34S	20:07	243

2019 Nov 19 (Tue)	10:09 117	15:06 34S	20:04 243
2019 Nov 20 (Wed)	10:05 117	15:03 34S	20:00 243
2019 Nov 21 (Thu)	10:01 117	14:59 34S	19:57 243
2019 Nov 22 (Fri)	09:58 117	14:56 34S	19:53 243
2019 Nov 23 (Sat)	09:54 117	14:52 34S	19:50 243
2019 Nov 24 (Sun)	09:51 117	14:48 34S	19:46 243
2019 Nov 25 (Mon)	09:47 117	14:45 34S	19:43 243
2019 Nov 26 (Tue)	09:44 117	14:41 34S	19:39 243
2019 Nov 27 (Wed)	09:40 117	14:38 34S	19:36 243
2019 Nov 28 (Thu)	09:36 117	14:34 34S	19:32 243
2019 Nov 29 (Fri)	09:33 117	14:31 34S	19:29 243
2019 Nov 30 (Sat)	09:29 117	14:27 34S	19:25 243
2019 Dec 01 (Sun)	09:26 117	14:24 34S	19:22 243
2019 Dec 02 (Mon)	09:22 117	14:20 34S	19:19 243
2019 Dec 03 (Tue)	09:19 117	14:17 34S	19:15 243
2019 Dec 04 (Wed)	09:15 117	14:13 34S	19:12 243
2019 Dec 05 (Thu)	09:12 117	14:10 34S	19:08 243
2019 Dec 06 (Fri)	09:08 117	14:06 34S	19:05 243
2019 Dec 07 (Sat)	09:05 117	14:03 34S	19:01 243
2019 Dec 08 (Sun)	09:01 117	13:59 34S	18:58 243
2019 Dec 09 (Mon)	08:58 117	13:56 34S	18:54 243
2019 Dec 10 (Tue)	08:54 117	13:52 34S	18:51 243
2019 Dec 11 (Wed)	08:51 117	13:49 34S	18:48 243
2019 Dec 12 (Thu)	08:47 116	13:46 34S	18:44 244
2019 Dec 13 (Fri)	08:43 116	13:42 34S	18:41 244
2019 Dec 14 (Sat)	08:40 116	13:39 34S	18:37 244
2019 Dec 15 (Sun)	08:36 116	13:35 34S	18:34 244
2019 Dec 16 (Mon)	08:33 116	13:32 34S	18:30 244
2019 Dec 17 (Tue)	08:29 116	13:28 34S	18:27 244
2019 Dec 18 (Wed)	08:26 116	13:25 34S	18:24 244
2019 Dec 19 (Thu)	08:22 116	13:21 34S	18:20 244
2019 Dec 20 (Fri)	08:19 116	13:18 34S	18:17 244
2019 Dec 21 (Sat)	08:15 116	13:14 34S	18:13 244
2019 Dec 22 (Sun)	08:12 116	13:11 34S	18:10 244
2019 Dec 23 (Mon)	08:08 116	13:08 34S	18:07 244
2019 Dec 24 (Tue)	08:05 116	13:04 34S	18:03 244
2019 Dec 25 (Wed)	08:01 116	13:01 34S	18:00 244
2019 Dec 26 (Thu)	07:58 116	12:57 34S	17:56 244
2019 Dec 27 (Fri)	07:54 116	12:54 34S	17:53 244
2019 Dec 28 (Sat)	07:51 116	12:50 34S	17:50 244
2019 Dec 29 (Sun)	07:47 116	12:47 34S	17:46 244
2019 Dec 30 (Mon)	07:44 116	12:43 34S	17:43 244
2019 Dec 31 (Tue)	07:40 116	12:40 34S	17:40 244

Back to form