

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/01/2018 M	6:01mt	6:45s	5:43r	7:25r	2:56r	3:09r	6:46r
01/01/2018 M	7:28r		10:19t	11:49t	7:58t	8:08t	11:14t
01/01/2018 M	11:57t		14:55s	16:13s	12:59s	13:06s	15:43s
01/01/2018 M	16:26s	16:27r					
01/01/2018 M	17:53et	19:24FM					
01/02/2018 Tu	6:01mt	0:08t	5:44r	7:27r	2:56r	3:06r	6:42r
01/02/2018 Tu	7:28r	7:48s	10:20t	11:51t	7:56t	8:05t	11:11t
01/02/2018 Tu	11:57t		14:55s	16:15s	12:57s	13:03s	15:39s
01/02/2018 Tu	16:27s	17:34r					
01/02/2018 Tu	17:54et						
01/03/2018 W	6:01mt	1:11t	5:46r	7:28r	2:55r	3:03r	6:39r
01/03/2018 W	7:28r	8:43s	10:20t	11:52t	7:55t	8:01t	11:07t
01/03/2018 W	11:58t		14:54s	16:17s	12:54s	13:00s	15:36s
01/03/2018 W	16:28s						
01/03/2018 W	17:54et	18:46r					
01/04/2018 Th	6:01mt	2:12t	5:48r		2:54r	3:00r	6:36r
01/04/2018 Th	7:28r	9:28s	10:21t	7:29r	7:53t	7:58t	11:04t
01/04/2018 Th	11:58t		14:54s	11:54t	12:52s	12:56s	15:32s
01/04/2018 Th	16:28s			16:19s			
01/04/2018 Th	17:55et	19:59r					
01/05/2018 F	6:02mt	3:08t	5:50r		2:54r	2:57r	6:32r
01/05/2018 F	7:28r	10:07s	10:22t	7:30r	7:52t	7:55t	11:00t
01/05/2018 F	11:59t		14:54s	11:55t	12:50s	12:53s	15:29s
01/05/2018 F	16:29s			16:21s			
01/05/2018 F	17:56et	21:11r					
01/06/2018 Sat	6:01mt	4:01t	5:52r		2:53r	2:54r	6:29r
01/06/2018 Sat	7:28r	10:40s	10:23t	7:31r	7:50t	7:51t	10:57t
01/06/2018 Sat	11:59t		14:54s	11:57t	12:48s	12:49s	15:25s
01/06/2018 Sat	16:31s			16:23s			
01/06/2018 Sat	17:57et	22:20r					
01/07/2018 Sun	6:01mt	4:50t	5:54r		2:52r	2:51r	6:25r
01/07/2018 Sun	7:28r	11:11s	10:25t	7:32r	7:49t	7:48t	10:54t
01/07/2018 Sun	12:00t		14:55s	11:58t	12:46s	12:46s	15:22s
01/07/2018 Sun	16:32s			16:25s			
01/07/2018 Sun	17:58et	23:26r					
01/08/2018 M	6:01mt	5:37t	5:57r		2:52r	2:48r	6:22r
01/08/2018 M	7:28r	11:39s	10:26t	7:33r	7:48t	7:45t	10:50t
01/08/2018 M	12:00t	15:25LQ	14:55s	12:00t	12:43s	12:42s	15:19s
01/08/2018 M	16:33s			16:27s			
01/08/2018 M	17:59et						
01/09/2018 Tu	6:01mt	0:30r	5:59r		2:51r	2:44r	6:18r
01/09/2018 Tu	7:27r	6:23t	10:28t	7:34r	7:46t	7:42t	10:47t
01/09/2018 Tu	12:00t	12:07s	14:56s	12:01t	12:41s	12:39s	15:15s
01/09/2018 Tu	16:34s			16:30s			
01/09/2018 Tu	18:00et						

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/10/2018 W	6:01mt	1:32r	6:02r		2:50r	2:41r	6:15r
01/10/2018 W	7:27r	7:07t	10:30t	7:34r	7:45t	7:38t	10:43t
01/10/2018 W	12:01t	12:35s	14:57s	12:03t	12:39s	12:35s	15:12s
01/10/2018 W	16:35s			16:32s			
01/10/2018 W	18:01et						
01/11/2018 Th	6:01mt	2:33r	6:04r		2:49r	2:38r	6:12r
01/11/2018 Th	7:27r	7:52t	10:31t	7:35r	7:43t	7:35t	10:40t
01/11/2018 Th	12:01t	13:06s	14:58s	12:04t	12:37s	12:32s	15:08s
01/11/2018 Th	16:36s			16:34s			
01/11/2018 Th	18:02et						
01/12/2018 F	6:01mt	3:32r	6:07r		2:49r	2:35r	6:08r
01/12/2018 F	7:26r	8:38t	10:33t	7:36r	7:42t	7:32t	10:36t
01/12/2018 F	12:02t	13:39s	15:00s	12:06t	12:34s	12:28s	15:05s
01/12/2018 F	16:37s			16:36s			
01/12/2018 F	18:03et						
01/13/2018 Sat	6:00mt	4:29r	6:09r		2:48r	2:32r	6:05r
01/13/2018 Sat	7:26r	9:24t	10:35t	7:36r	7:40t	7:28t	10:33t
01/13/2018 Sat	12:02t	14:17s	15:01s	12:07t	12:32s	12:25s	15:01s
01/13/2018 Sat	16:38s			16:39s			
01/13/2018 Sat	18:04et						
01/14/2018 Sun	6:00mt	5:23r	6:12r		2:47r	2:29r	6:01r
01/14/2018 Sun	7:25r	10:11t	10:38t	7:37r	7:39t	7:25t	10:30t
01/14/2018 Sun	12:02t	14:59s	15:03s	12:09t	12:30s	12:21s	14:58s
01/14/2018 Sun	16:40s			16:41s			
01/14/2018 Sun	18:05et						
01/15/2018 M	6:00mt	6:13r	6:15r		2:47r	2:25r	5:58r
01/15/2018 M	7:25r	10:59t	10:40t	7:37r	7:37t	7:22t	10:26t
01/15/2018 M	12:03t	15:45s	15:05s	12:10t	12:28s	12:18s	14:54s
01/15/2018 M	16:41s			16:44s			
01/15/2018 M	18:06et						
01/16/2018 Tu	5:59mt	7:00r	6:17r		2:46r	2:22r	5:54r
01/16/2018 Tu	7:24r	11:47t	10:42t	7:37r	7:36t	7:18t	10:23t
01/16/2018 Tu	12:03t	16:37s	15:07s	12:11t	12:26s	12:14s	14:51s
01/16/2018 Tu	16:42s			16:46s			
01/16/2018 Tu	18:07et	19:17NM					
01/17/2018 W	5:59mt		6:20r		2:45r	2:19r	5:51r
01/17/2018 W	7:24r	7:41r	10:44t	7:38r	7:35t	7:15t	10:19t
01/17/2018 W	12:03t	12:35t	15:09s	12:13t	12:24s	12:11s	14:48s
01/17/2018 W	16:43s	17:32s		16:48s			
01/17/2018 W	18:08et						
01/18/2018 Th	5:58mt		6:22r		2:45r	2:16r	5:47r
01/18/2018 Th	7:23r	8:19r	10:47t	7:38r	7:33t	7:11t	10:16t
01/18/2018 Th	12:04t	13:22t	15:11s	12:14t	12:22s	12:07s	14:44s
01/18/2018 Th	16:45s			16:51s			
01/18/2018 Th	18:09et	18:30s					

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/19/2018 F	5:58mt		6:24r		2:44r	2:12r	5:44r
01/19/2018 F	7:22r	8:52r	10:49t	7:38r	7:32t	7:08t	10:12t
01/19/2018 F	12:04t	14:08t	15:14s	12:15t	12:19s	12:03s	14:41s
01/19/2018 F	16:46s			16:54s			
01/19/2018 F	18:10et	19:30s					
01/20/2018 Sat	5:57mt		6:27r		2:43r	2:09r	5:40r
01/20/2018 Sat	7:22r	9:23r	10:52t	7:38r	7:30t	7:05t	10:09t
01/20/2018 Sat	12:04t	14:54t	15:16s	12:17t	12:17s	12:00s	14:37s
01/20/2018 Sat	16:47s			16:56s			
01/20/2018 Sat	18:12et	20:32s					
01/21/2018 Sun	5:57mt		6:29r		2:42r	2:06r	5:37r
01/21/2018 Sun	7:21r	9:51r	10:54t	7:38r	7:29t	7:01t	10:05t
01/21/2018 Sun	12:05t	15:39t	15:19s	12:18t	12:15s	11:56s	14:34s
01/21/2018 Sun	16:49s			16:59s			
01/21/2018 Sun	18:13et	21:34s					
01/22/2018 M	5:56mt		6:31r		2:42r	2:03r	5:33r
01/22/2018 M	7:20r	10:19r	10:57t	7:38r	7:28t	6:58t	10:02t
01/22/2018 M	12:05t	16:24t	15:22s	12:19t	12:13s	11:53s	14:30s
01/22/2018 M	16:50s			17:01s			
01/22/2018 M	18:14et	22:38s					
01/23/2018 Tu	5:56mt		6:33r		2:41r	1:59r	5:30r
01/23/2018 Tu	7:19r	10:47r	10:59t	7:38r	7:26t	6:54t	9:58t
01/23/2018 Tu	12:05t		15:25s	12:21t	12:11s	11:49s	14:27s
01/23/2018 Tu	16:51s	17:11t		17:04s			
01/23/2018 Tu	18:15et	23:44s					
01/24/2018 W	5:55mt		6:36r		2:40r	1:56r	5:26r
01/24/2018 W	7:19r	11:17r	11:02t	7:38r	7:25t	6:51t	9:55t
01/24/2018 W	12:05t	15:20FQ	15:28s	12:22t	12:09s	11:46s	14:23s
01/24/2018 W	16:53s	17:59t		17:07s			
01/24/2018 W	18:16et						
01/25/2018 Th	5:54mt	0:51s	6:38r		2:39r	1:53r	5:23r
01/25/2018 Th	7:18r		11:05t	7:37r	7:23t	6:47t	9:51t
01/25/2018 Th	12:06t	11:50r	15:32s	12:23t	12:07s	11:42s	14:20s
01/25/2018 Th	16:54s			17:09s			
01/25/2018 Th	18:17et	18:51t					
01/26/2018 F	5:53mt	2:01s	6:40r		2:39r	1:49r	5:20r
01/26/2018 F	7:17r		11:07t	7:37r	7:22t	6:44t	9:48t
01/26/2018 F	12:06t	12:28r	15:35s	12:24t	12:05s	11:39s	14:17s
01/26/2018 F	16:55s			17:12s			
01/26/2018 F	18:19et	19:46t					
01/27/2018 Sat	5:53mt	3:11s			2:38r	1:46r	5:16r
01/27/2018 Sat	7:16r		6:41r	7:37r	7:21t	6:41t	9:45t
01/27/2018 Sat	12:06t	13:13r	11:10t	12:25t	12:03s	11:35s	14:13s
01/27/2018 Sat	16:57s		15:39s	17:14s			
01/27/2018 Sat	18:20et	20:44t					

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Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/28/2018 Sun	5:52mt	4:21s			2:37r	1:43r	5:13r
01/28/2018 Sun	7:15r		6:43r	7:37r	7:19t	6:37t	9:41t
01/28/2018 Sun	12:06t	14:06r	11:13t	12:27t	12:01s	11:31s	14:10s
01/28/2018 Sun	16:58s		15:43s	17:17s			
01/28/2018 Sun	18:21et	21:46t					
01/29/2018 M	5:51mt	5:26s			2:36r	1:39r	5:09r
01/29/2018 M	7:14r		6:45r	7:36r	7:18t	6:34t	9:38t
01/29/2018 M	12:06t	15:08r	11:15t	12:28t	11:59s	11:28s	14:06s
01/29/2018 M	16:59s		15:47s	17:20s			
01/29/2018 M	18:22et	22:48t					
01/30/2018 Tu	5:50mt	6:25s			2:36r	1:36r	5:06r
01/30/2018 Tu	7:13r		6:47r	7:36r	7:16t	6:30t	9:34t
01/30/2018 Tu	12:07t		11:18t	12:29t	11:57s	11:24s	14:03s
01/30/2018 Tu	17:01s	16:17r	15:51s	17:23s			
01/30/2018 Tu	18:23et	23:50t					
01/31/2018 W	5:49mt				2:35r	1:33r	5:02r
01/31/2018 W	7:12r	6:27FM	6:48r		7:15t	6:27t	
01/31/2018 W	12:07t	7:16s	11:21t	7:35r	11:55s	11:21s	9:31t
01/31/2018 W	17:02s		15:55s	12:30t			13:59s
01/31/2018 W	18:25et	17:31r		17:25s			
02/01/2018 Th	5:48mt	0:50t			2:34r	1:29r	4:59r
02/01/2018 Th	7:11r	7:59s	6:49r	7:35r	7:14t	6:23t	9:27t
02/01/2018 Th	12:07t		11:24t	12:31t	11:53s	11:17s	13:56s
02/01/2018 Th	17:03s		15:59s	17:28s			
02/01/2018 Th	18:26et	18:45r					
02/02/2018 F	5:47mt	1:46t			2:33r	1:26r	4:55r
02/02/2018 F	7:09r	8:36s	6:51r	7:34r	7:12t	6:20t	9:24t
02/02/2018 F	12:07t		11:27t	12:32t	11:51s	11:13s	13:52s
02/02/2018 F	17:05s		16:03s	17:31s			
02/02/2018 F	18:27et	19:58r					
02/03/2018 Sat	5:46mt	2:38t			2:32r	1:22r	4:51r
02/03/2018 Sat	7:08r	9:09s	6:52r	7:33r	7:11t	6:16t	9:20t
02/03/2018 Sat	12:07t		11:30t	12:33t	11:49s	11:10s	13:49s
02/03/2018 Sat	17:06s		16:08s	17:33s			
02/03/2018 Sat	18:28et	21:08r					
02/04/2018 Sun	5:45mt	3:28t			2:32r	1:19r	4:48r
02/04/2018 Sun	7:07r	9:39s	6:53r	7:33r	7:09t	6:13t	9:17t
02/04/2018 Sun	12:07t		11:33t	12:34t	11:47s	11:06s	13:45s
02/04/2018 Sun	17:08s		16:12s	17:36s			
02/04/2018 Sun	18:29et	22:15r					
02/05/2018 M	5:44mt	4:16t			2:31r	1:16r	4:44r
02/05/2018 M	7:06r	10:08s	6:54r	7:32r	7:08t	6:09t	9:13t
02/05/2018 M	12:07t		11:35t	12:35t	11:45s	11:02s	13:42s
02/05/2018 M	17:09s		16:17s	17:39s			
02/05/2018 M	18:31et	23:20r					

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Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/06/2018 Tu	5:43mt	5:02t			2:30r	1:12r	4:41r
02/06/2018 Tu	7:05r	10:37s	6:55r	7:31r	7:07t	6:05t	9:10t
02/06/2018 Tu	12:07t		11:38t	12:36t	11:43s	10:59s	13:38s
02/06/2018 Tu	17:10s		16:22s	17:41s			
02/06/2018 Tu	18:32et						
02/07/2018 W	5:42mt	0:22r			2:29r	1:09r	4:37r
02/07/2018 W	7:03r	5:48t	6:56r	7:30r	7:05t	6:02t	
02/07/2018 W		8:54LQ				10:55s	9:06t
02/07/2018 W	12:07t	11:07s	11:41t	12:37t	11:41s		13:35s
02/07/2018 W	17:12s		16:27s	17:44s			
02/07/2018 W	18:33et						
02/08/2018 Th	5:41mt	1:23r			2:28r	1:05r	4:34r
02/08/2018 Th	7:02r	6:34t	6:57r	7:30r	7:04t	5:58t	9:03t
02/08/2018 Th	12:07t	11:40s	11:44t	12:38t	11:39s	10:51s	13:31s
02/08/2018 Th	17:13s		16:32s	17:47s			
02/08/2018 Th	18:34et						
02/09/2018 F	5:40mt	2:21r			2:27r	1:02r	4:30r
02/09/2018 F	7:01r	7:20t	6:58r	7:29r	7:03t	5:55t	8:59t
02/09/2018 F	12:07t	12:16s	11:47t	12:39t	11:38s	10:48s	13:28s
02/09/2018 F	17:15s		16:37s	17:50s			
02/09/2018 F	18:36et						
02/10/2018 Sat	5:39mt	3:16r			2:26r	0:58r	4:27r
02/10/2018 Sat	6:59r	8:07t	6:59r	7:28r	7:01t	5:51t	8:55t
02/10/2018 Sat	12:07t	12:56s	11:50t	12:40t	11:36s	10:44s	13:24s
02/10/2018 Sat	17:16s		16:42s	17:52s			
02/10/2018 Sat	18:37et						
02/11/2018 Sun	5:37mt	4:08r			2:26r	0:55r	4:23r
02/11/2018 Sun	6:58r	8:55t	6:59r	7:27r	7:00t	5:47t	8:52t
02/11/2018 Sun	12:07t	13:41s	11:53t	12:40t	11:34s	10:40s	13:21s
02/11/2018 Sun	17:17s		16:48s	17:55s			
02/11/2018 Sun	18:38et						
02/12/2018 M	5:36mt	4:56r			2:25r	0:51r	4:20r
02/12/2018 M	6:57r	9:43t	7:00r	7:26r	6:58t	5:44t	8:48t
02/12/2018 M	12:07t	14:31s	11:56t	12:41t	11:32s	10:37s	13:17s
02/12/2018 M	17:19s		16:53s	17:58s			
02/12/2018 M	18:39et						
02/13/2018 Tu	5:35mt	5:40r			2:24r	0:48r	4:16r
02/13/2018 Tu	6:55r	10:31t	7:00r	7:25r	6:57t	5:40t	8:45t
02/13/2018 Tu	12:07t	15:25s	11:59t	12:42t	11:30s	10:33s	13:14s
02/13/2018 Tu	17:20s		16:59s	18:00s			
02/13/2018 Tu	18:41et						
02/14/2018 W	5:33mt				2:23r	0:44r	4:13r
02/14/2018 W	6:54r	6:19r	7:01r	7:24r	6:56t	5:37t	8:41t
02/14/2018 W	12:07t	11:18t	12:02t	12:43t	11:28s	10:29s	13:10s
02/14/2018 W	17:21s	16:22s	17:04s	18:03s			

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Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/14/2018 W	18:42et						
02/15/2018 Th	5:32mt				2:22r	0:40r	4:09r
02/15/2018 Th	6:52r	6:54r	7:01r	7:23r	6:54t	5:33t	8:38t
02/15/2018 Th	12:07t	12:05t	12:05t	12:44t	11:27s	10:25s	13:07s
02/15/2018 Th		14:05NM	17:10s				
02/15/2018 Th	17:23s	17:22s		18:06s			
02/15/2018 Th	18:43et						
02/16/2018 F					2:21r	0:37r	4:05r
02/16/2018 F	5:31mt					5:29t	
02/16/2018 F	6:51r	7:25r	7:01r	7:22r	6:53t	10:22s	8:34t
02/16/2018 F	12:07t	12:51t	12:08t	12:45t	11:25s		13:03s
02/16/2018 F	17:24s	18:24s	17:16s	18:08s			
02/16/2018 F	18:44et						
02/17/2018 Sat					2:20r	0:33r	4:02r
02/17/2018 Sat	5:29mt					5:26t	
02/17/2018 Sat	6:49r	7:55r	7:01r	7:20r	6:52t	10:18s	8:31t
02/17/2018 Sat	12:07t	13:37t	12:11t	12:45t	11:23s		13:00s
02/17/2018 Sat	17:26s		17:21s	18:11s			
02/17/2018 Sat	18:46et	19:27s					
02/18/2018 Sun					2:19r	0:29r	3:58r
02/18/2018 Sun	5:28mt					5:22t	
02/18/2018 Sun	6:48r	8:23r	7:02r	7:19r	6:50t	10:14s	8:27t
02/18/2018 Sun	12:07t	14:23t	12:14t	12:46t	11:21s		12:56s
02/18/2018 Sun	17:27s		17:27s	18:14s			
02/18/2018 Sun	18:47et	20:31s					
02/19/2018 M					2:18r	0:26r	3:55r
02/19/2018 M	5:27mt					5:18t	
02/19/2018 M	6:46r	8:51r	7:02r	7:18r	6:49t	10:11s	8:24t
02/19/2018 M	12:07t	15:09t	12:17t	12:47t	11:19s		12:52s
02/19/2018 M	17:28s		17:33s	18:16s			
02/19/2018 M	18:48et	21:36s					
02/20/2018 Tu					2:17r	0:22r	3:51r
02/20/2018 Tu	5:25mt					5:14t	
02/20/2018 Tu	6:45r	9:20r	7:02r	7:17r	6:47t	10:07s	8:20t
02/20/2018 Tu	12:07t	15:57t	12:20t	12:47t	11:18s		12:49s
02/20/2018 Tu	17:30s		17:39s	18:19s			
02/20/2018 Tu	18:49et	22:43s					
02/21/2018 W					2:16r	0:18r	3:47r
02/21/2018 W	5:24mt					5:11t	
02/21/2018 W	6:43r	9:52r	7:02r	7:16r	6:46t	10:03s	8:16t
02/21/2018 W	12:07t	16:46t	12:23t	12:48t	11:16s		12:45s
02/21/2018 W	17:31s		17:45s	18:22s			
02/21/2018 W	18:51et	23:51s					
02/22/2018 Th					2:15r	0:15r	3:44r
02/22/2018 Th	5:22mt					5:07t	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/22/2018 Th	6:42r	10:27r	7:01r	7:14r	6:45t	9:59s	8:13t
02/22/2018 Th	12:07t		12:26t	12:49t	11:14s		12:42s
02/22/2018 Th	17:32s	17:39t	17:52s	18:24s			
02/22/2018 Th	18:52et						
02/23/2018 F		0:59s				0:11r	
02/23/2018 F	5:21mt	1:09FQ			2:14r	5:03t	3:40r
02/23/2018 F	6:40r	11:08r	7:01r	7:13r	6:43t	9:55s	8:09t
02/23/2018 F	12:06t		12:29t	12:50t	11:12s		12:38s
02/23/2018 F	17:34s	18:34t	17:58s	18:27s			
02/23/2018 F	18:53et						
02/24/2018 Sat		2:07s			2:13r	0:07r	3:37r
02/24/2018 Sat	5:19mt					4:59t	
02/24/2018 Sat	6:38r		7:01r	7:12r	6:42t	9:52s	8:06t
02/24/2018 Sat	12:06t	11:56r	12:32t	12:50t	11:11s		12:35s
02/24/2018 Sat	17:35s		18:04s	18:29s			
02/24/2018 Sat	18:54et	19:32t					
02/25/2018 Sun		3:12s			2:12r	0:04r	3:33r
02/25/2018 Sun	5:17mt					4:56t	
02/25/2018 Sun	6:37r		7:00r	7:11r	6:41t	9:48s	8:02t
02/25/2018 Sun	12:06t	12:52r	12:35t	12:51t	11:09s		12:31s
02/25/2018 Sun	17:36s		18:10s	18:32s			
02/25/2018 Sun	18:56et	20:32t				24:00r	
02/26/2018 M	5:16mt	4:11s			2:11r	4:52t	3:29r
02/26/2018 M	6:35r		7:00r	7:09r	6:39t	9:44s	7:58t
02/26/2018 M	12:06t	13:56r	12:38t	12:52t	11:07s		12:28s
02/26/2018 M	17:38s		18:17s	18:35s			
02/26/2018 M	18:57et	21:32t				23:56r	
02/27/2018 Tu	5:14mt	5:04s			2:10r	4:48t	3:26r
02/27/2018 Tu	6:33r		6:59r	7:08r	6:38t	9:40s	7:55t
02/27/2018 Tu	12:06t	15:05r	12:40t	12:52t	11:06s		12:24s
02/27/2018 Tu	17:39s		18:23s	18:37s			
02/27/2018 Tu	18:58et	22:32t				23:52r	
02/28/2018 W	5:13mt	5:49s			2:09r	4:44t	3:22r
02/28/2018 W	6:32r		6:59r	7:07r	6:36t	9:36s	7:51t
02/28/2018 W	12:06t	16:18r	12:43t	12:53t	11:04s		12:20s
02/28/2018 W	17:40s		18:29s	18:40s			
02/28/2018 W	19:00et	23:29t				23:48r	
03/01/2018 Th	5:11mt	6:29s			2:08r	4:40t	3:18r
03/01/2018 Th	6:30r		6:58r	7:05r	6:35t	9:32s	7:48t
03/01/2018 Th	12:05t	17:32r	12:46t	12:53t	11:02s		12:17s
03/01/2018 Th	17:42s	17:51FM	18:35s	18:43s			
03/01/2018 Th	19:01et					23:45r	
03/02/2018 F	5:09mt	0:23t			2:07r	4:37t	3:15r
03/02/2018 F	6:28r	7:04s	6:57r	7:04r	6:34t	9:29s	7:44t
03/02/2018 F	12:05t		12:49t	12:54t	11:01s		12:13s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/02/2018 F	17:43s	18:44r	18:42s	18:45s			
03/02/2018 F	19:02et					23:41r	
03/03/2018 Sat	5:08mt	1:15t			2:06r	4:33t	3:11r
03/03/2018 Sat	6:27r	7:35s	6:56r	7:03r	6:32t	9:25s	7:40t
03/03/2018 Sat	12:05t		12:51t	12:55t	10:59s		12:10s
03/03/2018 Sat	17:44s		18:48s	18:48s			
03/03/2018 Sat	19:03et	19:54r				23:37r	
03/04/2018 Sun	5:06mt	2:04t			2:04r	4:29t	3:08r
03/04/2018 Sun	6:25r	8:05s	6:56r	7:01r	6:31t	9:21s	7:37t
03/04/2018 Sun	12:05t		12:54t	12:55t	10:57s		12:06s
03/04/2018 Sun	17:46s		18:54s	18:50s			
03/04/2018 Sun	19:05et	21:01r				23:33r	
03/05/2018 M	5:04mt	2:52t			2:03r	4:25t	3:04r
03/05/2018 M	6:23r	8:35s	6:54r	7:00r	6:30t	9:17s	7:33t
03/05/2018 M	12:05t		12:56t	12:56t	10:56s		12:02s
03/05/2018 M	17:47s		18:59s	18:53s			
03/05/2018 M	19:06et	22:07r				23:29r	
03/06/2018 Tu	5:02mt	3:40t			2:02r	4:21t	3:00r
03/06/2018 Tu	6:21r	9:05s	6:53r	6:58r	6:28t	9:13s	7:29t
03/06/2018 Tu	12:04t		12:58t	12:56t	10:54s		11:59s
03/06/2018 Tu	17:48s		19:05s	18:56s			
03/06/2018 Tu	19:07et	23:10r				23:25r	
03/07/2018 W	5:01mt	4:26t			2:01r	4:17t	2:57r
03/07/2018 W	6:20r	9:37s	6:52r	6:57r	6:27t	9:09s	7:26t
03/07/2018 W	12:04t		13:00t	12:57t	10:52s		11:55s
03/07/2018 W	17:49s			18:58s			
03/07/2018 W	19:09et		19:10s			23:21r	
03/08/2018 Th	4:59mt	0:10r			2:00r	4:13t	2:53r
03/08/2018 Th	6:18r	5:14t	6:50r	6:56r	6:25t	9:05s	7:22t
03/08/2018 Th	12:04t	10:12s	13:02t	12:58t	10:51s		11:51s
03/08/2018 Th	17:51s			19:01s			
03/08/2018 Th	19:10et		19:15s			23:17r	
03/09/2018 F		1:08r			1:59r	4:09t	2:49r
03/09/2018 F	4:57mt	4:20LQ					
03/09/2018 F	6:16r	6:01t	6:49r	6:54r	6:24t	9:01s	7:18t
03/09/2018 F	12:04t	10:51s	13:03t	12:58t	10:49s		11:48s
03/09/2018 F	17:52s			19:03s			
03/09/2018 F	19:11et		19:20s			23:14r	
03/10/2018 Sat	4:55mt	2:01r			1:57r	4:05t	2:46r
03/10/2018 Sat	6:14r	6:49t	6:47r	6:53r	6:23t	8:57s	7:15t
03/10/2018 Sat	12:03t	11:35s	13:05t	12:59t	10:48s		11:44s
03/10/2018 Sat	17:53s			19:06s			
03/10/2018 Sat	19:12et		19:24s			23:10r	
03/11/2018 Sun	4:53mt	2:51r			1:56r	4:02t	2:42r
03/11/2018 Sun	6:12r	7:37t	6:45r	6:51r	6:21t	8:54s	7:11t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/11/2018 Sun	12:03t	12:23s	13:06t	12:59t	10:46s		11:40s
03/11/2018 Sun	17:54s			19:08s			
03/11/2018 Sun	19:14et		19:28s			23:06r	
03/12/2018 M	4:52mt	3:36r			1:55r	3:58t	2:38r
03/12/2018 M	6:11r	8:25t	6:43r	6:50r	6:20t	8:50s	7:07t
03/12/2018 M	12:03t	13:15s	13:06t	13:00t	10:44s		11:37s
03/12/2018 M	17:56s			19:11s			
03/12/2018 M	19:15et		19:31s			23:02r	
03/13/2018 Tu	4:50mt	4:17r			1:54r	3:54t	2:34r
03/13/2018 Tu	6:09r	9:12t	6:40r	6:49r	6:18t	8:46s	7:04t
03/13/2018 Tu	12:03t	14:12s	13:06t	13:01t	10:43s		11:33s
03/13/2018 Tu	17:57s			19:14s			
03/13/2018 Tu	19:16et		19:34s			22:58r	
03/14/2018 W	4:48mt	4:53r			1:52r	3:50t	2:31r
03/14/2018 W	6:07r	9:59t	6:38r	6:47r	6:17t	8:42s	7:00t
03/14/2018 W	12:02t	15:11s	13:06t	13:01t	10:41s		11:29s
03/14/2018 W	17:58s			19:16s			
03/14/2018 W	19:18et		19:36s			22:54r	
03/15/2018 Th	4:46mt	5:26r			1:51r	3:46t	2:27r
03/15/2018 Th	6:05r		6:35r	6:46r	6:15t	8:38s	6:56t
03/15/2018 Th	12:02t	10:46t	13:06t	13:02t	10:40s		11:26s
03/15/2018 Th	18:00s	16:13s		19:19s			
03/15/2018 Th	19:19et		19:38s			22:49r	
03/16/2018 F	4:44mt	5:56r			1:50r	3:42t	2:23r
03/16/2018 F	6:03r		6:32r	6:44r	6:14t	8:34s	6:53t
03/16/2018 F	12:02t	11:32t	13:05t	13:02t	10:38s		11:22s
03/16/2018 F	18:01s	17:16s					
03/16/2018 F	19:20et		19:39s	19:21s		22:45r	
03/17/2018 Sat	4:42mt				1:48r	3:38t	2:20r
03/17/2018 Sat	6:02r	6:12NM			6:13t		
03/17/2018 Sat		6:25r	6:29r	6:43r	10:37s	8:30s	6:49t
03/17/2018 Sat	12:01t	12:19t	13:03t	13:03t			11:18s
03/17/2018 Sat	18:02s	18:21s					
03/17/2018 Sat	19:22et		19:39s	19:24s		22:41r	
03/18/2018 Sun	4:40mt				1:47r	3:34t	2:16r
03/18/2018 Sun	6:00r	6:54r	6:25r	6:42r	6:11t	8:26s	6:45t
03/18/2018 Sun	12:01t	13:05t	13:02t	13:04t	10:35s		11:15s
03/18/2018 Sun	18:03s						
03/18/2018 Sun	19:23et	19:27s	19:39s	19:27s		22:37r	
03/19/2018 M	4:38mt				1:46r	3:29t	2:12r
03/19/2018 M	5:58r	7:23r	6:21r	6:40r	6:10t	8:22s	6:41t
03/19/2018 M	12:01t	13:53t	12:59t	13:04t	10:34s		11:11s
03/19/2018 M	18:05s						
03/19/2018 M	19:24et	20:34s	19:38s	19:29s		22:33r	
03/20/2018 Tu	4:36mt				1:44r	3:25t	2:08r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/20/2018 Tu	5:56r	7:54r	6:18r	6:39r	6:08t	8:18s	6:38t
03/20/2018 Tu	9:15ME				10:32s		11:07s
03/20/2018 Tu	12:01t	14:43t	12:56t	13:05t			
03/20/2018 Tu	18:06s						
03/20/2018 Tu	19:26et	21:43s	19:36s	19:32s		22:29r	
03/21/2018 W	4:35mt				1:43r	3:21t	2:05r
03/21/2018 W	5:54r	8:28r	6:14r	6:37r	6:07t	8:14s	6:34t
03/21/2018 W	12:00t	15:35t	12:53t	13:05t	10:31s		11:03s
03/21/2018 W	18:07s						
03/21/2018 W	19:27et	22:52s	19:33s	19:34s		22:25r	
03/22/2018 Th	4:33mt				1:42r	3:17t	2:01r
03/22/2018 Th	5:53r	9:07r	6:09r	6:36r	6:05t	8:10s	6:30t
03/22/2018 Th	12:00t	16:30t	12:49t	13:06t	10:29s		11:00s
03/22/2018 Th	18:08s						
03/22/2018 Th	19:28et		19:30s	19:37s		22:21r	
03/23/2018 F	4:31mt	0:00s			1:40r	3:13t	1:57r
03/23/2018 F	5:51r	9:52r	6:05r	6:35r	6:04t	8:06s	6:27t
03/23/2018 F	12:00t	17:26t	12:45t	13:07t	10:27s		10:56s
03/23/2018 F	18:09s		19:25s				
03/23/2018 F	19:30et			19:40s		22:17r	
03/24/2018 Sat	4:29mt	1:05s			1:39r	3:09t	1:53r
03/24/2018 Sat	5:49r	8:35FQ	6:00r	6:33r	6:02t	8:01s	6:23t
03/24/2018 Sat	11:59t	10:44r	12:41t	13:07t	10:26s		10:52s
03/24/2018 Sat	18:11s	18:25t	19:21s				
03/24/2018 Sat	19:31et			19:42s		22:12r	
03/25/2018 Sun	4:27mt	2:05s			1:37r	3:05t	1:49r
03/25/2018 Sun	5:47r		5:56r	6:32r	6:01t	7:57s	6:19t
03/25/2018 Sun	11:59t	11:44r	12:35t	13:08t	10:24s		10:48s
03/25/2018 Sun	18:12s	19:23t	19:15s				
03/25/2018 Sun	19:33et			19:45s		22:08r	
03/26/2018 M	4:25mt	2:59s			1:36r	3:01t	1:46r
03/26/2018 M	5:45r		5:51r	6:31r	5:59t	7:53s	6:15t
03/26/2018 M	11:59t	12:50r	12:30t	13:09t	10:23s		10:45s
03/26/2018 M	18:13s		19:09s				
03/26/2018 M	19:34et	20:21t		19:47s		22:04r	
03/27/2018 Tu	4:23mt	3:45s			1:34r	2:57t	1:42r
03/27/2018 Tu	5:43r		5:46r	6:29r	5:58t	7:49s	6:11t
03/27/2018 Tu	11:58t	14:00r	12:24t	13:09t	10:21s		10:41s
03/27/2018 Tu	18:14s		19:02s				
03/27/2018 Tu	19:35et	21:17t		19:50s		22:00r	
03/28/2018 W	4:21mt	4:25s	5:41r		1:33r	2:52t	1:38r
03/28/2018 W	5:42r			6:28r	5:56t	7:45s	6:08t
03/28/2018 W	11:58t	15:12r	12:18t	13:10t	10:20s		10:37s
03/28/2018 W	18:16s		18:55s				
03/28/2018 W	19:37et	22:11t		19:53s		21:55r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/29/2018 Th	4:19mt	5:01s	5:36r		1:31r	2:48t	1:34r
03/29/2018 Th	5:40r			6:27r	5:55t	7:41s	6:04t
03/29/2018 Th	11:58t	16:23r	12:12t	13:11t	10:18s		10:33s
03/29/2018 Th	18:17s		18:47s				
03/29/2018 Th	19:38et	23:03t		19:55s		21:51r	
03/30/2018 F	4:17mt	5:33s	5:31r		1:30r	2:44t	1:31r
03/30/2018 F	5:38r			6:26r	5:53t	7:37s	6:00t
03/30/2018 F	11:58t	17:33r	12:05t	13:11t	10:17s		10:30s
03/30/2018 F	18:18s		18:39s				
03/30/2018 F	19:40et	23:53t		19:58s		21:47r	
03/31/2018 Sat	4:15mt		5:26r		1:28r	2:40t	1:27r
03/31/2018 Sat	5:36r	5:37FM			5:52t		5:56t
03/31/2018 Sat	11:57t	6:03s	11:59t	6:24r	10:15s	7:33s	10:26s
03/31/2018 Sat	18:19s	18:41r	18:30s	13:12t			
03/31/2018 Sat	19:41et			20:01s		21:43r	
04/01/2018 Sun	4:13mt	0:41t	5:22r		1:27r	2:36t	1:23r
04/01/2018 Sun	5:34r	6:32s		6:23r	5:50t	7:29s	5:52t
04/01/2018 Sun	11:57t		11:52t	13:13t	10:14s		10:22s
04/01/2018 Sun	18:20s		18:22s				
04/01/2018 Sun	19:42et	19:48r		20:03s		21:38r	
04/02/2018 M	4:11mt	1:29t	5:17r		1:25r	2:31t	1:19r
04/02/2018 M	5:32r	7:02s		6:22r	5:49t	7:25s	5:49t
04/02/2018 M	11:57t		11:46t	13:13t	10:12s		10:18s
04/02/2018 M	18:22s		18:13s				
04/02/2018 M	19:44et	20:53r		20:06s		21:34r	
04/03/2018 Tu	4:09mt	2:17t	5:12r		1:23r	2:27t	1:15r
04/03/2018 Tu	5:31r	7:34s		6:21r	5:47t	7:20s	5:45t
04/03/2018 Tu	11:56t		11:39t	13:14t	10:11s		10:14s
04/03/2018 Tu	18:23s		18:04s				
04/03/2018 Tu	19:45et	21:56r		20:09s		21:30r	
04/04/2018 W	4:07mt	3:05t	5:08r		1:22r	2:23t	1:11r
04/04/2018 W	5:29r	8:08s		6:20r	5:46t	7:16s	5:41t
04/04/2018 W	11:56t		11:32t	13:15t	10:09s		10:11s
04/04/2018 W	18:24s		17:56s				
04/04/2018 W	19:47et	22:56r		20:11s		21:25r	
04/05/2018 Th	4:05mt	3:53t	5:04r		1:20r	2:19t	1:08r
04/05/2018 Th	5:27r	8:45s		6:18r	5:44t	7:12s	5:37t
04/05/2018 Th	11:56t		11:26t	13:16t	10:08s		10:07s
04/05/2018 Th	18:25s		17:47s				
04/05/2018 Th	19:48et	23:53r		20:14s		21:21r	
04/06/2018 F	4:03mt	4:41t	4:59r		1:18r	2:14t	1:04r
04/06/2018 F	5:25r	9:27s		6:17r	5:42t	7:08s	5:33t
04/06/2018 F	11:56t		11:20t	13:16t	10:06s		10:03s
04/06/2018 F	18:27s		17:39s				
04/06/2018 F	19:50et			20:17s		21:17r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/07/2018 Sat	4:01mt	0:45r	4:55r		1:17r	2:10t	1:00r
04/07/2018 Sat	5:24r	5:29t		6:16r	5:41t	7:04s	5:29t
04/07/2018 Sat	11:55t	10:14s	11:14t	13:17t	10:05s		9:59s
04/07/2018 Sat	18:28s		17:31s				
04/07/2018 Sat	19:51et			20:19s		21:12r	
04/08/2018 Sun		0:18LQ			1:15r		0:56r
04/08/2018 Sun	3:58mt	1:32r	4:51r			2:06t	
04/08/2018 Sun	5:22r	6:17t		6:15r	5:39t	7:00s	5:26t
04/08/2018 Sun	11:55t	11:05s	11:08t	13:18t	10:03s		9:55s
04/08/2018 Sun	18:29s		17:24s				
04/08/2018 Sun	19:53et			20:22s		21:08r	
04/09/2018 M	3:56mt	2:14r	4:48r		1:13r	2:02t	0:52r
04/09/2018 M	5:20r	7:05t		6:14r	5:38t	6:55s	5:22t
04/09/2018 M	11:55t	11:59s	11:03t	13:19t	10:02s		9:51s
04/09/2018 M	18:30s		17:17s				
04/09/2018 M	19:54et			20:25s		21:03r	
04/10/2018 Tu	3:54mt	2:51r	4:44r		1:12r	1:57t	0:48r
04/10/2018 Tu	5:18r	7:52t		6:13r	5:36t	6:51s	5:18t
04/10/2018 Tu	11:54t	12:57s	10:58t	13:20t	10:00s		9:47s
04/10/2018 Tu	18:31s		17:10s				
04/10/2018 Tu	19:56et			20:27s		20:59r	
04/11/2018 W	3:52mt	3:25r	4:41r		1:10r	1:53t	0:44r
04/11/2018 W	5:17r	8:38t		6:12r	5:34t	6:47s	5:14t
04/11/2018 W	11:54t	13:58s	10:53t	13:21t	9:59s		9:44s
04/11/2018 W	18:33s		17:04s				
04/11/2018 W	19:57et			20:30s		20:55r	
04/12/2018 Th	3:50mt	3:56r	4:38r		1:08r	1:49t	0:40r
04/12/2018 Th	5:15r	9:25t		6:11r	5:33t	6:43s	5:10t
04/12/2018 Th	11:54t	15:00s	10:48t	13:22t	9:57s		9:40s
04/12/2018 Th	18:34s		16:58s				
04/12/2018 Th	19:59et			20:33s		20:50r	
04/13/2018 F	3:48mt	4:25r	4:35r		1:06r	1:44t	0:37r
04/13/2018 F	5:13r			6:11r	5:31t	6:39s	5:06t
04/13/2018 F	11:54t	10:11t	10:44t	13:22t	9:56s		9:36s
04/13/2018 F	18:35s	16:05s	16:53s				
04/13/2018 F	20:00et			20:35s		20:46r	
04/14/2018 Sat	3:46mt	4:54r	4:32r		1:05r	1:40t	0:33r
04/14/2018 Sat	5:11r			6:10r	5:29t	6:34s	5:02t
04/14/2018 Sat	11:53t	10:58t	10:40t	13:23t	9:54s		9:32s
04/14/2018 Sat	18:36s	17:11s	16:48s				
04/14/2018 Sat	20:02et			20:38s		20:41r	
04/15/2018 Sun	3:44mt		4:29r		1:03r	1:36t	0:29r
04/15/2018 Sun	5:10r	5:23r		6:09r	5:28t	6:30s	4:58t
04/15/2018 Sun	11:53t	11:46t	10:36t	13:24t	9:53s		9:28s
04/15/2018 Sun	18:37s	18:19s	16:44s				

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/15/2018 Sun	20:03et	18:57NM		20:41s		20:37r	
04/16/2018 M	3:42mt		4:26r		1:01r	1:31t	0:25r
04/16/2018 M	5:08r	5:53r		6:08r	5:26t	6:26s	4:54t
04/16/2018 M	11:53t	12:36t	10:33t	13:25t	9:51s		9:24s
04/16/2018 M	18:39s	19:29s	16:40s				
04/16/2018 M	20:05et			20:43s		20:32r	
04/17/2018 Tu	3:40mt		4:24r		0:59r	1:27t	0:21r
04/17/2018 Tu	5:06r	6:26r		6:07r	5:24t	6:22s	4:51t
04/17/2018 Tu	11:53t	13:28t	10:30t	13:26t	9:50s		9:20s
04/17/2018 Tu	18:40s		16:36s				
04/17/2018 Tu	20:06et	20:40s		20:46s		20:28r	
04/18/2018 W	3:38mt		4:21r		0:57r	1:23t	0:17r
04/18/2018 W	5:05r	7:04r		6:07r	5:23t	6:18s	4:47t
04/18/2018 W	11:52t	14:23t	10:27t	13:27t	9:48s		9:16s
04/18/2018 W	18:41s		16:33s				
04/18/2018 W	20:08et	21:51s		20:49s		20:23r	
04/19/2018 Th	3:36mt		4:19r		0:55r	1:18t	0:13r
04/19/2018 Th	5:03r	7:48r		6:06r	5:21t	6:13s	4:43t
04/19/2018 Th	11:52t	15:21t	10:25t	13:28t	9:47s		9:12s
04/19/2018 Th	18:42s		16:31s				
04/19/2018 Th	20:10et	22:59s		20:51s		20:19r	
04/20/2018 F	3:34mt		4:17r		0:53r	1:14t	0:09r
04/20/2018 F	5:01r	8:39r		6:06r	5:19t	6:09s	4:39t
04/20/2018 F	11:52t	16:20t	10:23t	13:29t	9:45s		9:08s
04/20/2018 F	18:44s		16:29s				
04/20/2018 F	20:11et			20:54s		20:14r	
04/21/2018 Sat	3:32mt	0:02s	4:15r		0:51r	1:10t	0:05r
04/21/2018 Sat	5:00r			6:05r	5:17t	6:05s	4:35t
04/21/2018 Sat	11:52t	9:37r	10:21t	13:30t	9:43s		9:04s
04/21/2018 Sat	18:45s	17:19t	16:27s			20:10r	
04/21/2018 Sat	20:13et			20:56s			
04/22/2018 Sun	3:30mt	0:58s	4:13r		0:49r	1:05t	0:01r
04/22/2018 Sun	4:58r			6:05r	5:16t	6:01s	4:31t
04/22/2018 Sun	11:52t	10:42r	10:19t	13:31t	9:42s		9:00s
04/22/2018 Sun		14:46FQ	16:25s				
04/22/2018 Sun	18:46s	18:17t				20:05r	
04/22/2018 Sun	20:14et			20:59s			23:57r
04/23/2018 M	3:28mt	1:46s	4:11r		0:47r	1:01t	4:27t
04/23/2018 M	4:57r			6:04r	5:14t	5:56s	8:56s
04/23/2018 M	11:51t	11:50r	10:18t	13:32t	9:40s		
04/23/2018 M	18:47s	19:13t	16:25s			20:01r	
04/23/2018 M	20:16et			21:02s			23:53r
04/24/2018 Tu	3:26mt	2:27s	4:09r		0:45r	0:56t	4:23t
04/24/2018 Tu	4:55r			6:04r	5:12t	5:52s	8:52s
04/24/2018 Tu	11:51t	13:00r	10:16t	13:33t	9:39s		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/24/2018 Tu	18:48s	20:06t	16:24s			19:56r	
04/24/2018 Tu	20:18et			21:04s			23:49r
04/25/2018 W	3:24mt	3:02s	4:07r		0:43r	0:52t	4:19t
04/25/2018 W	4:53r			6:03r	5:10t	5:48s	8:48s
04/25/2018 W	11:51t	14:10r	10:15t	13:35t	9:37s		
04/25/2018 W	18:50s		16:24s			19:52r	
04/25/2018 W	20:19et	20:57t		21:07s			23:45r
04/26/2018 Th	3:22mt	3:34s	4:06r		0:41r	0:48t	4:15t
04/26/2018 Th	4:52r			6:03r	5:08t	5:43s	8:44s
04/26/2018 Th	11:51t	15:19r	10:14t	13:36t	9:35s		
04/26/2018 Th	18:51s		16:24s			19:47r	
04/26/2018 Th	20:21et	21:46t		21:09s			23:41r
04/27/2018 F	3:20mt	4:04s	4:04r		0:39r	0:43t	4:11t
04/27/2018 F	4:50r			6:03r	5:06t	5:39s	8:40s
04/27/2018 F	11:51t		10:14t	13:37t	9:34s		
04/27/2018 F	18:52s	16:26r	16:24s			19:43r	
04/27/2018 F	20:23et	22:34t		21:12s			23:37r
04/28/2018 Sat	3:18mt	4:32s	4:02r		0:37r	0:39t	4:07t
04/28/2018 Sat	4:49r			6:03r	5:05t	5:35s	8:36s
04/28/2018 Sat	11:51t		10:13t	13:38t	9:32s		
04/28/2018 Sat	18:53s	17:33r	16:25s			19:38r	
04/28/2018 Sat	20:24et	23:21t		21:14s			23:33r
04/29/2018 Sun	3:16mt		4:01r		0:35r	0:34t	4:03t
04/29/2018 Sun	4:47r	5:01s		6:03r	5:03t	5:31s	8:32s
04/29/2018 Sun	11:50t		10:13t	13:39t	9:30s		
04/29/2018 Sun		17:58FM	16:25s				
04/29/2018 Sun	18:54s	18:38r				19:33r	
04/29/2018 Sun	20:26et			21:17s			23:29r
04/30/2018 M	3:14mt	0:09t	4:00r		0:33r	0:30t	3:59t
04/30/2018 M	4:46r	5:32s		6:02r	5:01t	5:26s	8:28s
04/30/2018 M	11:50t		10:13t	13:40t	9:28s		
04/30/2018 M	18:56s	19:42r	16:27s			19:29r	
04/30/2018 M	20:28et			21:19s			23:25r
05/01/2018 Tu	3:13mt	0:56t	3:58r		0:31r	0:25t	3:55t
05/01/2018 Tu	4:44r	6:04s		6:02r	4:59t	5:22s	8:24s
05/01/2018 Tu	11:50t		10:13t	13:42t	9:27s		
05/01/2018 Tu	18:57s		16:28s			19:24r	
05/01/2018 Tu	20:29et	20:44r		21:22s			23:21r
05/02/2018 W	3:11mt	1:44t	3:57r		0:29r	0:21t	3:51t
05/02/2018 W	4:43r	6:40s		6:03r	4:57t	5:18s	8:20s
05/02/2018 W	11:50t		10:13t	13:43t	9:25s		
05/02/2018 W	18:58s		16:30s			19:20r	
05/02/2018 W	20:31et	21:43r		21:24s			23:17r
05/03/2018 Th	3:09mt	2:33t	3:55r		0:27r	0:17t	3:47t
05/03/2018 Th	4:42r	7:21s		6:03r	4:55t	5:13s	8:16s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/03/2018 Th	11:50t		10:13t	13:44t	9:23s		
05/03/2018 Th	18:59s		16:32s			19:15r	
05/03/2018 Th	20:33et	22:37r		21:26s			23:13r
05/04/2018 F	3:07mt	3:22t	3:54r		0:25r	0:12t	3:43t
05/04/2018 F	4:40r	8:05s		6:03r	4:53t	5:09s	8:12s
05/04/2018 F	11:50t		10:14t	13:45t	9:21s		
05/04/2018 F	19:00s		16:34s			19:11r	
05/04/2018 F	20:34et	23:27r		21:28s			23:09r
05/05/2018 Sat	3:05mt	4:10t	3:53r		0:22r	0:08t	3:39t
05/05/2018 Sat	4:39r	8:55s		6:03r	4:51t	5:05s	8:08s
05/05/2018 Sat	11:50t		10:14t	13:47t	9:20s		
05/05/2018 Sat	19:02s		16:36s			19:06r	
05/05/2018 Sat	20:36et			21:31s			23:05r
05/06/2018 Sun	3:03mt	0:11r	3:52r		0:20r	0:03t	3:35t
05/06/2018 Sun	4:38r	4:58t		6:03r	4:49t	5:01s	8:04s
05/06/2018 Sun	11:50t	9:48s	10:15t	13:48t	9:18s		
05/06/2018 Sun	19:03s		16:39s			19:01r	
05/06/2018 Sun	20:38et			21:33s		23:59t	23:01r
05/07/2018 M	3:01mt	0:50r	3:51r		0:18r		3:31t
05/07/2018 M	4:36r	5:45t		6:04r	4:47t	4:56s	8:00s
05/07/2018 M	11:50t	10:44s	10:16t	13:49t	9:16s		
05/07/2018 M	19:04s	19:09LQ	16:42s			18:57r	
05/07/2018 M	20:39et			21:35s		23:54t	22:57r
05/08/2018 Tu	3:00mt	1:25r	3:50r		0:16r		3:27t
05/08/2018 Tu	4:35r	6:31t		6:04r	4:45t	4:52s	7:56s
05/08/2018 Tu	11:50t	11:43s	10:17t	13:50t	9:14s		
05/08/2018 Tu	19:05s		16:45s			18:52r	
05/08/2018 Tu	20:41et			21:37s		23:50t	22:53r
05/09/2018 W	2:58mt	1:56r	3:49r		0:13r		3:22t
05/09/2018 W	4:34r	7:17t		6:05r	4:43t	4:48s	7:52s
05/09/2018 W	11:50t	12:44s	10:18t	13:52t	9:12s		
05/09/2018 W	19:06s		16:49s			18:48r	
05/09/2018 W	20:43et			21:39s		23:46t	22:49r
05/10/2018 Th	2:56mt	2:26r	3:48r		0:11r		3:18t
05/10/2018 Th	4:32r	8:02t		6:05r	4:41t	4:43s	7:48s
05/10/2018 Th	11:50t	13:47s	10:19t	13:53t	9:10s		
05/10/2018 Th	19:07s		16:52s			18:43r	
05/10/2018 Th	20:44et			21:41s		23:41t	22:45r
05/11/2018 F	2:54mt	2:54r	3:47r		0:09r		3:14t
05/11/2018 F	4:31r	8:48t		6:06r	4:39t	4:39s	7:44s
05/11/2018 F	11:50t	14:52s	10:21t	13:54t	9:08s		
05/11/2018 F	19:09s		16:56s			18:38r	
05/11/2018 F	20:46et			21:43s		23:37t	22:41r
05/12/2018 Sat	2:53mt	3:22r	3:46r		0:07r		3:10t
05/12/2018 Sat	4:30r			6:06r	4:36t	4:35s	7:40s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/12/2018 Sat	11:50t	9:35t	10:22t	13:56t	9:06s		
05/12/2018 Sat	19:10s	15:59s	17:00s			18:34r	
05/12/2018 Sat	20:48et			21:45s		23:32t	22:37r
05/13/2018 Sun	2:51mt	3:51r	3:46r		0:04r		3:06t
05/13/2018 Sun	4:29r			6:07r	4:34t	4:31s	7:36s
05/13/2018 Sun	11:50t	10:24t	10:24t	13:57t	9:05s		
05/13/2018 Sun	19:11s	17:08s	17:04s			18:29r	
05/13/2018 Sun	20:49et			21:47s		23:28t	22:33r
05/14/2018 M	2:49mt	4:23r	3:45r		0:02r	4:26s	3:02t
05/14/2018 M	4:28r			6:08r	4:32t		7:31s
05/14/2018 M	11:50t	11:16t	10:26t	13:58t	9:02s		
05/14/2018 M	19:12s	18:20s	17:09s			18:25r	
05/14/2018 M	20:51et			21:49s	23:59r	23:23t	22:28r
05/15/2018 Tu	2:48mt		3:44r			4:22s	2:58t
05/15/2018 Tu	4:27r	4:48NM			4:30t		
05/15/2018 Tu	11:50t	4:59r	10:28t	6:09r	9:00s		7:27s
05/15/2018 Tu	19:13s	12:11t	17:13s	14:00t		18:20r	
05/15/2018 Tu	20:53et	19:33s		21:51s	23:57r	23:19t	22:24r
05/16/2018 W	2:46mt		3:44r			4:18s	2:54t
05/16/2018 W	4:26r	5:41r		6:10r	4:28t		7:23s
05/16/2018 W	11:50t	13:09t	10:30t	14:01t	8:58s		
05/16/2018 W	19:14s	20:45s	17:18s			18:16r	
05/16/2018 W	20:54et			21:52s	23:55r	23:14t	22:20r
05/17/2018 Th	2:45mt		3:44r			4:13s	2:50t
05/17/2018 Th	4:25r	6:30r		6:11r	4:25t		7:19s
05/17/2018 Th	11:50t	14:09t	10:33t	14:02t	8:56s		
05/17/2018 Th	19:15s		17:23s			18:11r	
05/17/2018 Th	20:56et	21:53s		21:54s	23:52r	23:10t	22:16r
05/18/2018 F	2:43mt		3:43r		4:23t	4:09s	2:46t
05/18/2018 F	4:24r	7:27r	10:35t	6:12r	8:54s		7:15s
05/18/2018 F	11:50t	15:11t	17:28s	14:04t		18:06r	
05/18/2018 F	19:16s						
05/18/2018 F	20:57et	22:53s		21:56s	23:50r	23:06t	22:12r
05/19/2018 Sat	2:41mt		3:43r		4:21t	4:05s	2:41t
05/19/2018 Sat	4:23r	8:31r	10:38t	6:13r	8:52s		7:11s
05/19/2018 Sat	11:50t	16:11t	17:34s	14:05t		18:02r	
05/19/2018 Sat	19:17s						
05/19/2018 Sat	20:59et	23:45s		21:57s	23:47r	23:01t	22:08r
05/20/2018 Sun	2:40mt		3:43r		4:18t	4:01s	2:37t
05/20/2018 Sun	4:22r	9:40r	10:41t	6:14r	8:50s		7:07s
05/20/2018 Sun	11:50t	17:09t	17:40s	14:06t		17:57r	
05/20/2018 Sun	19:18s						
05/20/2018 Sun	21:01et			21:58s	23:45r	22:57t	22:04r
05/21/2018 M	2:39mt	0:29s	3:43r		4:16t	3:56s	2:33t
05/21/2018 M	4:21r	10:51r	10:44t	6:16r	8:48s		7:02s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/21/2018 M	11:50t	18:04t	17:46s	14:08t		17:53r	
05/21/2018 M	19:19s	20:49FQ					
05/21/2018 M	21:02et			22:00s	23:42r	22:52t	22:00r
05/22/2018 Tu	2:37mt	1:06s	3:43r		4:14t	3:52s	2:29t
05/22/2018 Tu	4:20r		10:47t	6:17r	8:45s		6:58s
05/22/2018 Tu	11:50t	12:01r	17:52s	14:09t		17:48r	
05/22/2018 Tu	19:20s	18:55t					
05/22/2018 Tu	21:04et			22:01s	23:40r	22:48t	21:56r
05/23/2018 W	2:36mt	1:39s	3:44r		4:11t	3:48s	2:25t
05/23/2018 W	4:19r		10:50t	6:18r	8:43s		6:54s
05/23/2018 W	11:50t	13:10r	17:58s	14:10t		17:44r	
05/23/2018 W	19:21s	19:44t					
05/23/2018 W	21:05et			22:02s	23:37r	22:44t	21:51r
05/24/2018 Th	2:34mt	2:08s	3:44r		4:09t	3:43s	2:21t
05/24/2018 Th	4:18r		10:54t	6:20r	8:41s		6:50s
05/24/2018 Th	11:50t	14:17r	18:05s	14:12t		17:39r	
05/24/2018 Th	19:22s	20:32t					
05/24/2018 Th	21:07et			22:04s	23:35r	22:39t	21:47r
05/25/2018 F	2:33mt	2:37s	3:45r		4:06t	3:39s	2:16t
05/25/2018 F	4:17r		10:57t	6:21r	8:38s		6:46s
05/25/2018 F	11:50t	15:23r	18:11s	14:13t		17:35r	
05/25/2018 F	19:23s						
05/25/2018 F	21:08et	21:18t		22:05s	23:32r	22:35t	21:43r
05/26/2018 Sat	2:32mt	3:04s	3:46r		4:04t	3:35s	2:12t
05/26/2018 Sat	4:17r		11:01t	6:23r	8:36s		6:42s
05/26/2018 Sat	11:50t	16:28r	18:18s	14:14t		17:30r	
05/26/2018 Sat	19:24s						
05/26/2018 Sat	21:10et	22:04t		22:06s	23:29r	22:30t	21:39r
05/27/2018 Sun	2:31mt	3:33s	3:47r		4:01t	3:31s	2:08t
05/27/2018 Sun	4:16r		11:05t	6:24r	8:33s		6:37s
05/27/2018 Sun	11:50t	17:32r	18:26s	14:16t		17:26r	
05/27/2018 Sun	19:25s						
05/27/2018 Sun	21:11et	22:51t		22:07s	23:27r	22:26t	21:35r
05/28/2018 M	2:29mt	4:04s	3:48r		3:59t	3:26s	2:04t
05/28/2018 M	4:15r		11:10t	6:26r	8:31s		6:33s
05/28/2018 M	11:50t	18:34r	18:33s	14:17t		17:21r	
05/28/2018 M	19:26s						
05/28/2018 M	21:12et	23:39t		22:07s	23:24r	22:22t	21:31r
05/29/2018 Tu	2:28mt		3:50r		3:56t	3:22s	2:00t
05/29/2018 Tu	4:15r	4:38s		6:28r			6:29s
05/29/2018 Tu	11:51t	7:20FM	11:14t	14:18t	8:28s	17:17r	
05/29/2018 Tu	19:27s	19:34r	18:40s				
05/29/2018 Tu	21:14et			22:08s	23:21r	22:17t	21:26r
05/30/2018 W	2:27mt	0:27t	3:51r		3:54t	3:18s	1:56t
05/30/2018 W	4:14r	5:17s	11:19t	6:29r	8:26s		6:25s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/30/2018 W	11:51t		18:48s	14:19t		17:12r	
05/30/2018 W	19:28s	20:30r					
05/30/2018 W	21:15et			22:09s	23:19r	22:13t	21:22r
05/31/2018 Th	2:26mt	1:16t	3:53r		3:51t	3:14s	1:51t
05/31/2018 Th	4:13r	6:00s	11:24t	6:31r	8:23s		6:21s
05/31/2018 Th	11:51t		18:56s	14:21t		17:08r	
05/31/2018 Th	19:29s						
05/31/2018 Th	21:16et	21:22r		22:10s	23:16r	22:09t	21:18r
06/01/2018 F	2:25mt	2:04t	3:55r		3:48t	3:09s	1:47t
06/01/2018 F	4:13r	6:47s	11:29t	6:33r	8:21s		6:16s
06/01/2018 F	11:51t		19:03s	14:22t		17:03r	
06/01/2018 F	19:30s						21:14r
06/01/2018 F	21:18et	22:08r		22:10s	23:13r	22:04t	
06/02/2018 Sat	2:24mt	2:53t	3:58r		3:45t	3:05s	1:43t
06/02/2018 Sat	4:12r	7:39s	11:34t	6:35r	8:18s		6:12s
06/02/2018 Sat	11:51t		19:11s	14:23t		16:59r	
06/02/2018 Sat	19:30s						21:10r
06/02/2018 Sat	21:19et	22:49r		22:11s	23:10r	22:00t	
06/03/2018 Sun	2:23mt	3:40t	4:00r		3:43t	3:01s	1:39t
06/03/2018 Sun	4:12r	8:34s	11:39t	6:37r	8:15s		6:08s
06/03/2018 Sun	11:51t		19:19s	14:24t		16:54r	
06/03/2018 Sun	19:31s						21:06r
06/03/2018 Sun	21:20et	23:26r		22:11s	23:07r	21:56t	
06/04/2018 M	2:23mt		4:03r		3:40t	2:57s	1:35t
06/04/2018 M	4:12r	4:26t		6:39r	8:12s		6:04s
06/04/2018 M	11:52t	9:32s	11:44t	14:25t		16:50r	
06/04/2018 M	19:32s		19:27s				21:01r
06/04/2018 M	21:21et	23:58r		22:12s	23:05r	21:51t	
06/05/2018 Tu	2:22mt		4:06r		3:37t	2:53s	1:30t
06/05/2018 Tu	4:11r	5:12t		6:41r	8:09s		5:59s
06/05/2018 Tu	11:52t	10:31s	11:50t	14:27t		16:45r	
06/05/2018 Tu	19:33s		19:34s				20:57r
06/05/2018 Tu	21:22et			22:12s	23:02r	21:47t	
06/06/2018 W	2:21mt	0:27r	4:10r		3:34t	2:48s	1:26t
06/06/2018 W	4:11r	5:56t		6:43r	8:06s		5:55s
06/06/2018 W		11:32LQ					
06/06/2018 W	11:52t	11:32s	11:55t	14:28t		16:41r	
06/06/2018 W	19:33s		19:42s				20:53r
06/06/2018 W	21:23et			22:12s	22:59r	21:43t	
06/07/2018 Th	2:20mt	0:55r			3:31t	2:44s	1:22t
06/07/2018 Th	4:10r	6:41t	4:14r	6:45r	8:04s		5:51s
06/07/2018 Th	11:52t	12:35s	12:01t	14:29t		16:37r	
06/07/2018 Th	19:34s		19:49s				20:49r
06/07/2018 Th	21:24et			22:12s	22:56r	21:38t	
06/08/2018 F	2:20mt	1:22r			3:28t	2:40s	1:18t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/08/2018 F	4:10r	7:26t	4:18r	6:47r	8:01s		5:47s
06/08/2018 F	11:52t	13:39s	12:07t	14:30t		16:32r	
06/08/2018 F	19:35s		19:57s				20:45r
06/08/2018 F	21:25et			22:12s	22:53r	21:34t	
06/09/2018 Sat	2:19mt	1:50r			3:25t	2:36s	1:14t
06/09/2018 Sat	4:10r	8:13t	4:22r	6:49r	7:57s		5:42s
06/09/2018 Sat	11:52t	14:46s	12:12t	14:31t		16:28r	
06/09/2018 Sat	19:35s		20:03s				20:40r
06/09/2018 Sat	21:26et			22:12s	22:50r	21:30t	
06/10/2018 Sun	2:19mt	2:19r			3:22t	2:32s	1:09t
06/10/2018 Sun	4:10r	9:02t	4:26r	6:51r	7:54s		5:38s
06/10/2018 Sun	11:53t	15:56s	12:18t	14:32t		16:23r	
06/10/2018 Sun	19:36s		20:10s			21:25t	20:36r
06/10/2018 Sun	21:27et			22:12s	22:47r		
06/11/2018 M	2:18mt	2:52r			3:19t	2:27s	1:05t
06/11/2018 M	4:10r	9:55t	4:31r	6:53r	7:51s		5:34s
06/11/2018 M	11:53t	17:08s	12:23t	14:33t		16:19r	
06/11/2018 M	19:36s		20:16s			21:21t	20:32r
06/11/2018 M	21:28et			22:12s	22:44r		
06/12/2018 Tu	2:18mt	3:31r			3:16t	2:23s	1:01t
06/12/2018 Tu	4:09r	10:52t	4:35r	6:56r	7:48s		5:30s
06/12/2018 Tu	11:53t	18:22s	12:29t	14:34t		16:15r	
06/12/2018 Tu	19:37s		20:22s			21:17t	20:28r
06/12/2018 Tu	21:29et			22:12s	22:41r		
06/13/2018 W	2:18mt				3:13t	2:19s	0:57t
06/13/2018 W	4:09r	4:17r	4:40r	6:58r	7:45s		5:25s
06/13/2018 W	11:53t	11:52t	12:34t				
06/13/2018 W		12:43NM		14:35t		16:10r	
06/13/2018 W	19:37s	19:33s	20:28s			21:13t	20:24r
06/13/2018 W	21:29et			22:12s	22:38r		
06/14/2018 Th	2:17mt				3:10t	2:15s	0:52t
06/14/2018 Th	4:09r	5:11r	4:45r	7:00r	7:41s		5:21s
06/14/2018 Th	11:54t	12:55t	12:39t	14:36t		16:06r	
06/14/2018 Th	19:38s	20:39s	20:33s			21:08t	20:19r
06/14/2018 Th	21:30et			22:11s	22:35r		
06/15/2018 F	2:17mt				3:06t	2:11s	0:48t
06/15/2018 F	4:09r	6:14r	4:50r	7:02r	7:38s		5:17s
06/15/2018 F	11:54t	13:58t	12:44t	14:37t		16:02r	
06/15/2018 F	19:38s		20:38s			21:04t	20:15r
06/15/2018 F	21:31et	21:37s		22:11s	22:32r		
06/16/2018 Sat	2:17mt				3:03t	2:07s	0:44t
06/16/2018 Sat	4:09r	7:24r	4:56r	7:05r	7:34s		5:13s
06/16/2018 Sat	11:54t	14:59t	12:49t	14:38t		15:58r	
06/16/2018 Sat	19:39s		20:43s			21:00t	20:11r
06/16/2018 Sat	21:31et	22:26s		22:10s	22:28r		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/17/2018 Sun	2:17mt				3:00t	2:02s	0:40t
06/17/2018 Sun	4:09r	8:36r	5:01r	7:07r	7:31s		5:08s
06/17/2018 Sun	11:54t	15:57t	12:54t	14:39t		15:53r	
06/17/2018 Sun	19:39s		20:47s			20:56t	20:07r
06/17/2018 Sun	21:31et	23:07s		22:10s	22:25r		
06/18/2018 M	2:17mt				2:56t	1:58s	0:35t
06/18/2018 M	4:09r	9:49r	5:06r	7:09r	7:27s		5:04s
06/18/2018 M	11:54t	16:51t	12:59t	14:40t		15:49r	
06/18/2018 M	19:39s		20:50s			20:52t	20:03r
06/18/2018 M	21:32et	23:42s		22:09s	22:22r		
06/19/2018 Tu	2:17mt				2:53t	1:54s	0:31t
06/19/2018 Tu	4:10r	11:00r	5:12r	7:11r	7:23s		5:00s
06/19/2018 Tu	11:55t	17:42t	13:03t	14:41t		15:45r	
06/19/2018 Tu	19:40s		20:54s			20:47t	19:58r
06/19/2018 Tu	21:32et			22:09s	22:19r		
06/20/2018 W	2:17mt	0:13s			2:49t	1:50s	0:27t
06/20/2018 W	4:10r	3:51FQ	5:17r	7:14r	7:20s		4:56s
06/20/2018 W	11:55t	12:09r	13:07t	14:41t		15:41r	
06/20/2018 W	19:40s	18:30t	20:57s			20:43t	19:54r
06/20/2018 W	21:32et			22:08s	22:15r		
06/21/2018 Th	2:17mt	0:42s			2:46t	1:46s	0:23t
06/21/2018 Th	3:07JS						
06/21/2018 Th	4:10r		5:22r	7:16r	7:16s		4:51s
06/21/2018 Th	11:55t	13:16r	13:11t	14:42t		15:36r	
06/21/2018 Th	19:40s	19:17t	20:59s			20:39t	19:50r
06/21/2018 Th	21:33et			22:07s	22:12r		
06/22/2018 F	2:18mt	1:09s			2:42t	1:42s	0:18t
06/22/2018 F	4:10r		5:27r	7:18r	7:12s		4:47s
06/22/2018 F	11:55t	14:21r	13:15t	14:43t		15:32r	
06/22/2018 F	19:40s	20:03t	21:02s			20:35t	19:46r
06/22/2018 F	21:33et			22:07s	22:09r		
06/23/2018 Sat	2:18mt	1:38s			2:39t	1:38s	0:14t
06/23/2018 Sat	4:10r		5:33r	7:21r	7:08s		4:43s
06/23/2018 Sat	11:55t	15:24r	13:19t	14:44t		15:28r	
06/23/2018 Sat	19:40s	20:49t	21:04s			20:31t	19:41r
06/23/2018 Sat	21:33et			22:06s	22:05r		
06/24/2018 Sun	2:18mt	2:07s			2:35t	1:34s	0:10t
06/24/2018 Sun	4:11r		5:38r	7:23r	7:04s		4:39s
06/24/2018 Sun	11:56t	16:26r	13:22t	14:44t		15:24r	19:37r
06/24/2018 Sun	19:41s		21:05s			20:27t	
06/24/2018 Sun	21:33et	21:36t		22:05s	22:02r		
06/25/2018 M	2:19mt	2:40s			2:31t	1:30s	0:06t
06/25/2018 M	4:11r		5:43r	7:25r	7:00s		4:34s
06/25/2018 M	11:56t	17:26r	13:25t	14:45t		15:20r	19:33r
06/25/2018 M	19:41s		21:06s			20:23t	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/25/2018 M	21:33et	22:23t		22:04s	21:59r		
06/26/2018 Tu	2:19mt	3:16s			2:27t	1:26s	0:02t
06/26/2018 Tu	4:11r		5:48r	7:27r	6:56s		4:30s
06/26/2018 Tu	11:56t	18:24r	13:28t	14:46t		15:16r	19:29r
06/26/2018 Tu	19:41s		21:07s			20:18t	
06/26/2018 Tu	21:33et	23:11t		22:03s	21:55r		23:57t
06/27/2018 W	2:20mt	3:57s			2:23t	1:21s	
06/27/2018 W	4:12r		5:52r	7:30r	6:52s		4:26s
06/27/2018 W	11:56t	19:17r	13:31t	14:46t		15:11r	19:25r
06/27/2018 W	19:41s		21:08s			20:14t	
06/27/2018 W	21:33et	21:53FM		22:02s	21:52r		23:53t
06/28/2018 Th	2:20mt	0:00t			2:20t	1:17s	
06/28/2018 Th	4:12r	4:42s	5:57r	7:32r	6:47s		4:22s
06/28/2018 Th	11:57t		13:33t	14:47t		15:07r	19:20r
06/28/2018 Th	19:41s	20:05r	21:09s			20:10t	
06/28/2018 Th	21:32et			22:01s	21:48r		23:49t
06/29/2018 F	2:21mt	0:48t			2:16t	1:13s	
06/29/2018 F	4:13r	5:33s	6:01r	7:34r	6:43s		4:17s
06/29/2018 F	11:57t		13:36t	14:47t		15:03r	19:16r
06/29/2018 F	19:40s	20:49r	21:09s			20:06t	
06/29/2018 F	21:32et			22:00s	21:44r		23:45t
06/30/2018 Sat	2:22mt	1:36t			2:12t	1:09s	4:13s
06/30/2018 Sat	4:13r	6:27s	6:06r	7:37r	6:39s		
06/30/2018 Sat	11:57t		13:38t	14:48t		14:59r	19:12r
06/30/2018 Sat	19:40s	21:27r	21:09s			20:02t	
06/30/2018 Sat	21:32et			21:58s	21:41r		23:40t
07/01/2018 Sun	2:23mt	2:23t			2:08t	1:05s	4:09s
07/01/2018 Sun	4:14r	7:24s	6:10r	7:39r	6:34s		
07/01/2018 Sun	11:57t		13:40t	14:49t		14:55r	19:08r
07/01/2018 Sun	19:40s		21:08s			19:58t	
07/01/2018 Sun	21:31et	22:00r		21:57s	21:37r		23:36t
07/02/2018 M	2:23mt	3:08t			2:03t	1:01s	4:04s
07/02/2018 M	4:14r	8:23s	6:14r	7:41r	6:30s		
07/02/2018 M	11:57t		13:42t	14:49t		14:51r	19:03r
07/02/2018 M	19:40s		21:08s			19:54t	
07/02/2018 M	21:31et	22:30r		21:56s	21:33r		23:32t
07/03/2018 Tu	2:24mt	3:53t			1:59t	0:57s	4:00s
07/03/2018 Tu	4:15r	9:22s	6:18r	7:43r	6:25s		
07/03/2018 Tu	11:57t		13:43t	14:49t		14:47r	18:59r
07/03/2018 Tu	19:40s		21:07s		21:30r	19:50t	
07/03/2018 Tu	21:30et	22:58r		21:55s			23:28t
07/04/2018 W	2:25mt				1:55t	0:53s	3:56s
07/04/2018 W	4:16r	4:37t	6:21r	7:45r	6:20s		
07/04/2018 W	11:58t	10:23s	13:44t	14:50t		14:43r	18:55r
07/04/2018 W	19:39s		21:06s		21:26r	19:46t	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/04/2018 W	21:30et	23:25r		21:53s			23:23t
07/05/2018 Th	2:26mt				1:51t	0:49s	3:52s
07/05/2018 Th	4:16r	5:21t	6:25r	7:48r	6:16s		
07/05/2018 Th	11:58t	11:26s	13:45t	14:50t		14:39r	18:51r
07/05/2018 Th	19:39s		21:05s		21:22r	19:42t	
07/05/2018 Th	21:29et	23:51r		21:52s			23:19t
07/06/2018 F	2:27mt	0:51LQ			1:46t	0:45s	3:47s
07/06/2018 F	4:17r	6:06t	6:28r	7:50r	6:11s		
07/06/2018 F	11:58t	12:30s	13:46t	14:51t		14:35r	18:46r
07/06/2018 F	19:39s		21:04s		21:18r	19:38t	
07/06/2018 F	21:28et			21:51s			23:15t
07/07/2018 Sat	2:28mt	0:19r			1:42t	0:41s	3:43s
07/07/2018 Sat	4:18r	6:52t	6:31r	7:52r	6:06s		
07/07/2018 Sat	11:58t	13:36s	13:47t	14:51t		14:31r	18:42r
07/07/2018 Sat	19:38s		21:02s		21:14r	19:34t	
07/07/2018 Sat	21:27et			21:49s			23:11t
07/08/2018 Sun	2:29mt	0:49r			1:38t	0:37s	3:39s
07/08/2018 Sun	4:18r	7:42t	6:33r	7:54r	6:01s		
07/08/2018 Sun	11:58t	14:45s	13:47t	14:51t		14:27r	18:38r
07/08/2018 Sun	19:38s		21:00s		21:10r	19:30t	
07/08/2018 Sun	21:27et			21:48s			23:06t
07/09/2018 M	2:30mt	1:24r			1:33t	0:33s	3:35s
07/09/2018 M	4:19r	8:35t	6:36r	7:56r	5:56s		
07/09/2018 M	11:58t	15:57s	13:48t	14:52t		14:23r	18:34r
07/09/2018 M	19:37s		20:58s		21:06r	19:26t	
07/09/2018 M	21:26et			21:46s			23:02t
07/10/2018 Tu	2:32mt	2:05r			1:29t	0:29s	3:30s
07/10/2018 Tu	4:20r	9:33t	6:38r	7:58r	5:51s		
07/10/2018 Tu	11:59t	17:08s	13:48t	14:52t		14:19r	18:30r
07/10/2018 Tu	19:37s		20:56s		21:02r	19:22t	
07/10/2018 Tu	21:25et			21:44s			22:58t
07/11/2018 W	2:33mt	2:54r			1:24t	0:25s	3:26s
07/11/2018 W	4:21r	10:34t	6:40r	8:01r	5:46s		
07/11/2018 W	11:59t	18:18s	13:47t	14:52t		14:15r	18:25r
07/11/2018 W	19:36s		20:54s		20:58r	19:18t	
07/11/2018 W	21:24et			21:43s			22:54t
07/12/2018 Th	2:34mt	3:52r			1:20t	0:21s	3:22s
07/12/2018 Th	4:21r	11:37t	6:42r	8:03r	5:41s		
07/12/2018 Th	11:59t		13:47t	14:52t		14:11r	18:21r
07/12/2018 Th	19:36s	19:21s				19:14t	
07/12/2018 Th	21:23et	19:48NM	20:51s	21:41s	20:54r		22:49t
07/13/2018 F	2:35mt				1:15t	0:17s	3:18s
07/13/2018 F	4:22r	5:00r	6:43r	8:05r	5:35s		
07/13/2018 F	11:59t	12:41t	13:46t	14:53t		14:07r	18:17r
07/13/2018 F	19:35s	20:15s	20:48s		20:50r	19:11t	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/13/2018 F	21:22et			21:40s			22:45t
07/14/2018 Sat	2:37mt				1:10t	0:14s	3:13s
07/14/2018 Sat	4:23r	6:13r	6:44r	8:07r	5:30s		
07/14/2018 Sat	11:59t	13:42t	13:45t	14:53t		14:04r	18:13r
07/14/2018 Sat	19:35s	21:01s	20:45s		20:46r	19:07t	
07/14/2018 Sat	21:21et			21:38s			22:41t
07/15/2018 Sun	2:38mt				1:05t	0:10s	3:09s
07/15/2018 Sun	4:24r	7:29r	6:45r	8:09r	5:25s		
07/15/2018 Sun	11:59t	14:40t	13:44t	14:53t		14:00r	18:09r
07/15/2018 Sun	19:34s		20:42s		20:42r	19:03t	
07/15/2018 Sun	21:19et	21:40s		21:36s			22:37t
07/16/2018 M	2:39mt				1:01t	0:06s	3:05s
07/16/2018 M	4:25r	8:43r	6:46r	8:11r	5:19s		
07/16/2018 M	11:59t	15:34t	13:43t	14:53t		13:56r	18:04r
07/16/2018 M	19:33s		20:39s		20:37r	18:59t	
07/16/2018 M	21:18et	22:14s		21:34s			22:32t
07/17/2018 Tu	2:41mt				0:56t	0:02s	3:01s
07/17/2018 Tu	4:26r	9:55r	6:46r	8:13r	5:14s		
07/17/2018 Tu	11:59t	16:25t	13:41t	14:53t		13:52r	18:00r
07/17/2018 Tu	19:32s		20:35s		20:33r	18:55t	
07/17/2018 Tu	21:17et	22:44s		21:33s		23:58s	22:28t
07/18/2018 W	2:42mt				0:51t		2:56s
07/18/2018 W	4:27r	11:05r	6:46r	8:15r	5:09s		
07/18/2018 W	11:59t	17:14t	13:39t	14:53t		13:48r	17:56r
07/18/2018 W	19:32s		20:32s		20:29r	18:51t	
07/18/2018 W	21:16et	23:13s		21:31s		23:54s	22:24t
07/19/2018 Th	2:44mt				0:46t		2:52s
07/19/2018 Th	4:28r		6:45r	8:17r	5:03s		
07/19/2018 Th	12:00t	12:12r					
07/19/2018 Th		12:52FQ	13:37t	14:53t		13:45r	17:52r
07/19/2018 Th	19:31s	18:01t	20:28s		20:24r	18:47t	
07/19/2018 Th	21:14et	23:41s		21:29s		23:50s	22:20t
07/20/2018 F	2:45mt				0:41t		2:48s
07/20/2018 F	4:29r		6:44r	8:19r	4:58s		
07/20/2018 F	12:00t	13:16r	13:35t	14:53t		13:41r	17:48r
07/20/2018 F	19:30s	18:47t	20:24s		20:20r	18:44t	
07/20/2018 F	21:13et			21:27s		23:46s	22:16t
07/21/2018 Sat	2:47mt	0:11s			0:36t		2:44s
07/21/2018 Sat	4:30r		6:43r	8:21r	4:52s		
07/21/2018 Sat	12:00t	14:19r	13:32t	14:53t		13:37r	17:43r
07/21/2018 Sat	19:29s	19:34t	20:20s		20:16r	18:40t	
07/21/2018 Sat	21:11et			21:25s		23:42s	22:11t
07/22/2018 Sun	2:48mt	0:42s			0:31t		2:39s
07/22/2018 Sun	4:31r		6:41r	8:23r	4:47s		
07/22/2018 Sun	12:00t	15:20r	13:29t	14:53t		13:33r	17:39r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/22/2018 Sun	19:28s	20:21t	20:15s		20:11r	18:36t	
07/22/2018 Sun	21:10et			21:23s		23:39s	22:07t
07/23/2018 M	2:50mt	1:17s			0:26t		2:35s
07/23/2018 M	4:32r		6:39r	8:24r	4:41s		
07/23/2018 M	12:00t	16:18r	13:25t	14:53t		13:30r	17:35r
07/23/2018 M	19:27s		20:11s		20:07r	18:32t	
07/23/2018 M	21:09et	21:09t		21:21s		23:35s	22:03t
07/24/2018 Tu	2:51mt	1:56s			0:21t		2:31s
07/24/2018 Tu	4:33r		6:37r	8:26r	4:36s		
07/24/2018 Tu	12:00t	17:13r	13:22t	14:53t		13:26r	17:31r
07/24/2018 Tu	19:26s		20:06s		20:02r	18:28t	
07/24/2018 Tu	21:07et	21:57t		21:19s		23:31s	21:59t
07/25/2018 W	2:53mt	2:40s			0:16t		2:27s
07/25/2018 W	4:34r		6:34r	8:28r	4:30s		
07/25/2018 W	12:00t	18:03r	13:18t	14:53t		13:22r	17:27r
07/25/2018 W	19:25s		20:01s		19:58r	18:25t	
07/25/2018 W	21:05et	22:45t		21:17s		23:27s	21:55t
07/26/2018 Th	2:54mt	3:28s			0:11t		2:23s
07/26/2018 Th	4:35r		6:31r	8:30r	4:24s		
07/26/2018 Th	12:00t		13:14t	14:53t		13:18r	17:23r
07/26/2018 Th	19:24s	18:48r	19:56s		19:53r	18:21t	
07/26/2018 Th	21:04et	23:33t		21:15s		23:23s	21:50t
07/27/2018 F	2:56mt				0:06t		2:18s
07/27/2018 F	4:36r	4:21s	6:27r	8:32r	4:19s		
07/27/2018 F	12:00t	13:20FM	13:09t	14:53t		13:15r	17:18r
07/27/2018 F	19:23s	19:27r	19:51s		19:49r	18:17t	
07/27/2018 F	21:02et			21:13s		23:19s	21:46t
07/28/2018 Sat	2:58mt	0:20t			0:01t		2:14s
07/28/2018 Sat	4:37r	5:18s	6:23r	8:34r	4:13s		
07/28/2018 Sat	12:00t		13:04t	14:53t		13:11r	17:14r
07/28/2018 Sat	19:22s	20:02r	19:45s		19:44r	18:13t	
07/28/2018 Sat	21:01et			21:11s	23:56t	23:16s	21:42t
07/29/2018 Sun	2:59mt	1:06t			4:08s		2:10s
07/29/2018 Sun	4:38r	6:16s	6:18r	8:35r			
07/29/2018 Sun	12:00t		12:59t	14:53t		13:08r	17:10r
07/29/2018 Sun	19:21s	20:34r	19:40s		19:39r	18:10t	
07/29/2018 Sun	20:59et			21:09s	23:51t	23:12s	21:38t
07/30/2018 M	3:01mt	1:51t			4:02s		2:06s
07/30/2018 M	4:39r	7:16s	6:13r	8:37r			
07/30/2018 M	12:00t		12:53t	14:53t		13:04r	17:06r
07/30/2018 M	19:20s		19:34s		19:35r	18:06t	
07/30/2018 M	20:57et	21:02r		21:07s	23:46t	23:08s	21:34t
07/31/2018 Tu	3:02mt	2:35t			3:57s		2:02s
07/31/2018 Tu	4:40r	8:16s	6:07r	8:39r			
07/31/2018 Tu	12:00t		12:48t	14:52t		13:00r	17:02r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/31/2018 Tu	19:18s		19:28s		19:30r	18:02t	
07/31/2018 Tu	20:56et	21:29r		21:05s	23:41t	23:04s	21:30t
08/01/2018 W	3:04mt	3:19t			3:51s		1:57s
08/01/2018 W	4:41r	9:17s	6:01r	8:40r			
08/01/2018 W	12:00t		12:42t	14:52t		12:57r	16:58r
08/01/2018 W	19:17s		19:22s		19:25r	17:59t	
08/01/2018 W	20:54et	21:55r		21:03s	23:36t	23:00s	21:25t
08/02/2018 Th	3:06mt	4:03t			3:46s		1:53s
08/02/2018 Th	4:42r	10:20s	5:55r	8:42r			
08/02/2018 Th	11:59t		12:35t	14:52t		12:53r	16:54r
08/02/2018 Th	19:16s		19:16s		19:21r	17:55t	
08/02/2018 Th	20:52et	22:22r		21:01s	23:31t	22:57s	21:21t
08/03/2018 F	3:07mt				3:41s		1:49s
08/03/2018 F	4:43r	4:48t	5:48r	8:44r			
08/03/2018 F	11:59t	11:24s	12:29t	14:52t		12:50r	16:49r
08/03/2018 F	19:15s		19:10s		19:16r	17:51t	
08/03/2018 F	20:50et	22:50r		20:58s	23:26t	22:53s	21:17t
08/04/2018 Sat	3:09mt				3:35s		1:45s
08/04/2018 Sat	4:44r	5:35t	5:41r	8:45r			
08/04/2018 Sat	11:59t	11:18LQ	12:22t				
08/04/2018 Sat		12:30s		14:51t		12:46r	16:45r
08/04/2018 Sat	19:13s		19:04s		19:11r	17:48t	
08/04/2018 Sat	20:48et	23:21r		20:56s	23:21t	22:49s	21:13t
08/05/2018 Sun	3:10mt				3:30s		1:41s
08/05/2018 Sun	4:46r	6:25t	5:33r	8:47r			
08/05/2018 Sun	11:59t	13:38s	12:16t	14:51t		12:42r	16:41r
08/05/2018 Sun	19:12s		18:58s		19:07r	17:44t	
08/05/2018 Sun	20:47et	23:58r		20:54s	23:16t	22:45s	21:09t
08/06/2018 M	3:12mt				3:25s		1:37s
08/06/2018 M	4:47r	7:19t	5:26r	8:49r			
08/06/2018 M	11:59t	14:48s	12:09t	14:51t		12:39r	16:37r
08/06/2018 M	19:11s		18:53s		19:02r	17:40t	
08/06/2018 M	20:45et			20:52s	23:11t	22:42s	21:05t
08/07/2018 Tu	3:14mt	0:41r			3:19s		1:32s
08/07/2018 Tu	4:48r	8:16t	5:18r	8:50r			
08/07/2018 Tu	11:59t	15:56s	12:02t	14:50t		12:35r	16:33r
08/07/2018 Tu	19:09s		18:47s		18:57r	17:37t	
08/07/2018 Tu	20:43et			20:50s	23:06t	22:38s	21:01t
08/08/2018 W	3:15mt	1:34r			3:14s		1:28s
08/08/2018 W	4:49r	9:17t	5:10r	8:52r			
08/08/2018 W	11:59t	17:01s	11:55t	14:50t		12:32r	16:29r
08/08/2018 W	19:08s		18:41s		18:52r	17:33t	
08/08/2018 W	20:41et			20:47s	23:01t	22:34s	20:57t
08/09/2018 Th	3:17mt	2:36r			3:09s		1:24s
08/09/2018 Th	4:50r	10:20t	5:01r	8:53r			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/09/2018 Th	11:59t		11:48t	14:50t		12:28r	16:25r
08/09/2018 Th	19:07s	18:00s	18:36s		18:48r	17:29t	
08/09/2018 Th	20:39et			20:45s	22:56t	22:30s	20:52t
08/10/2018 F	3:18mt	3:46r			3:04s		1:20s
08/10/2018 F	4:51r	11:22t	4:53r	8:55r			
08/10/2018 F	11:59t		11:41t	14:49t		12:25r	16:21r
08/10/2018 F	19:05s	18:50s	18:30s		18:43r	17:26t	
08/10/2018 F	20:37et			20:43s	22:51t	22:27s	20:48t
08/11/2018 Sat	3:20mt	2:58NM	4:45r		2:59s		1:16s
08/11/2018 Sat	4:52r	5:01r	11:35t	8:56r			
08/11/2018 Sat	11:58t	12:22t		14:49t		12:22r	16:17r
08/11/2018 Sat	19:04s	19:33s	18:25s		18:38r	17:22t	
08/11/2018 Sat	20:35et			20:40s	22:46t	22:23s	20:44t
08/12/2018 Sun	3:22mt		4:37r		2:54s		1:12s
08/12/2018 Sun	4:53r	6:18r	11:28t	8:58r			
08/12/2018 Sun	11:58t	13:20t		14:48t		12:18r	16:12r
08/12/2018 Sun	19:02s	20:10s	18:20s		18:34r	17:19t	
08/12/2018 Sun	20:33et			20:38s	22:41t	22:19s	20:40t
08/13/2018 M	3:23mt		4:30r		2:49s		1:08s
08/13/2018 M	4:55r	7:33r	11:22t	8:59r			
08/13/2018 M	11:58t	14:14t		14:48t		12:15r	16:08r
08/13/2018 M	19:01s		18:16s		18:29r	17:15t	
08/13/2018 M	20:31et	20:43s		20:36s	22:37t	22:16s	20:36t
08/14/2018 Tu	3:25mt		4:22r		2:44s		1:04s
08/14/2018 Tu	4:56r	8:46r	11:17t	9:00r			
08/14/2018 Tu	11:58t	15:05t		14:47t		12:11r	16:04r
08/14/2018 Tu	18:59s		18:12s		18:24r	17:12t	
08/14/2018 Tu	20:29et	21:13s		20:33s	22:32t	22:12s	20:32t
08/15/2018 W	3:26mt		4:15r		2:40s		1:00s
08/15/2018 W	4:57r	9:56r	11:11t	9:02r			
08/15/2018 W	11:58t	15:54t		14:47t		12:08r	16:00r
08/15/2018 W	18:58s		18:08s		18:20r	17:08t	
08/15/2018 W	20:28et	21:42s		20:31s	22:27t	22:08s	20:28t
08/16/2018 Th	3:28mt		4:09r		2:35s		0:55s
08/16/2018 Th	4:58r	11:04r	11:06t	9:03r			
08/16/2018 Th	11:57t	16:42t		14:46t		12:04r	15:56r
08/16/2018 Th	18:56s		18:05s		18:15r	17:05t	20:24t
08/16/2018 Th	20:26et	22:12s		20:28s	22:23t	22:05s	
08/17/2018 F	3:30mt		4:03r		2:31s		0:51s
08/17/2018 F	4:59r		11:02t	9:05r			
08/17/2018 F	11:57t	12:09r		14:46t		12:01r	15:52r
08/17/2018 F	18:54s	17:30t	18:02s		18:11r	17:01t	20:20t
08/17/2018 F	20:24et	22:43s		20:26s	22:18t	22:01s	
08/18/2018 Sat	3:31mt	0:49FQ	3:57r		2:26s		0:47s
08/18/2018 Sat	5:00r		10:58t	9:06r			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/18/2018 Sat	11:57t	13:12r		14:45t		11:58r	15:48r
08/18/2018 Sat	18:53s	18:17t	17:59s		18:06r	16:58t	20:16t
08/18/2018 Sat	20:22et	23:17s		20:24s	22:14t	21:57s	
08/19/2018 Sun	3:33mt		3:52r		2:22s		0:43s
08/19/2018 Sun	5:01r		10:54t	9:07r		11:54r	
08/19/2018 Sun	11:57t	14:12r	17:57s	14:45t	18:02r	16:54t	15:44r
08/19/2018 Sun	18:51s	19:05t					20:12t
08/19/2018 Sun	20:20et	23:55s		20:21s	22:09t	21:54s	
08/20/2018 M	3:34mt		3:48r		2:17s		0:39s
08/20/2018 M	5:03r		10:51t	9:08r		11:51r	
08/20/2018 M	11:57t	15:08r	17:55s	14:44t	17:57r	16:51t	15:40r
08/20/2018 M	18:50s	19:53t					20:08t
08/20/2018 M	20:18et			20:19s	22:05t	21:50s	
08/21/2018 Tu	3:36mt	0:37s	3:44r		2:13s		0:35s
08/21/2018 Tu	5:04r		10:49t	9:09r		11:48r	
08/21/2018 Tu	11:56t	15:59r	17:53s	14:43t	17:53r	16:47t	15:36r
08/21/2018 Tu	18:48s						20:04t
08/21/2018 Tu	20:15et	20:42t		20:16s	22:01t	21:46s	
08/22/2018 W	3:37mt	1:24s	3:41r		2:09s		0:31s
08/22/2018 W	5:05r		10:47t	9:11r		11:44r	
08/22/2018 W	11:56t	16:46r	17:52s	14:43t	17:48r	16:44t	15:32r
08/22/2018 W	18:46s						19:59t
08/22/2018 W	20:13et	21:30t		20:14s	21:56t	21:43s	
08/23/2018 Th	3:39mt	2:16s	3:39r		2:05s		0:27s
08/23/2018 Th	5:06r		10:45t	9:12r		11:41r	
08/23/2018 Th	11:56t	17:27r	17:51s	14:42t	17:44r	16:40t	15:28r
08/23/2018 Th	18:45s			20:11s			19:55t
08/23/2018 Th	20:11et	22:17t			21:52t	21:39s	
08/24/2018 F	3:40mt	3:11s	3:37r		2:01s		0:23s
08/24/2018 F	5:07r		10:44t	9:13r		11:38r	
08/24/2018 F	11:55t	18:04r	17:51s	14:41t	17:39r	16:37t	15:24r
08/24/2018 F	18:43s			20:08s			19:51t
08/24/2018 F	20:09et	23:04t			21:48t	21:35s	
08/25/2018 Sat	3:42mt	4:09s	3:36r		1:57s		0:19s
08/25/2018 Sat	5:08r		10:43t	9:14r		11:34r	
08/25/2018 Sat	11:55t	18:36r	17:50s	14:40t	17:35r	16:33t	15:20r
08/25/2018 Sat	18:41s			20:06s			19:47t
08/25/2018 Sat	20:07et	23:49t			21:44t	21:32s	
08/26/2018 Sun	3:43mt	4:56FM	3:36r		1:53s		0:15s
08/26/2018 Sun	5:10r	5:09s	10:43t	9:15r		11:31r	
08/26/2018 Sun	11:55t		17:50s	14:39t	17:31r	16:30t	15:16r
08/26/2018 Sun	18:40s	19:06r		20:03s			19:43t
08/26/2018 Sun	20:05et				21:40t	21:28s	
08/27/2018 M	3:45mt	0:34t	3:36r		1:49s		0:11s
08/27/2018 M	5:11r	6:09s	10:44t	9:16r		11:28r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/27/2018 M	11:55t		17:51s	14:39t	17:27r	16:26t	15:12r
08/27/2018 M	18:38s	19:33r		20:01s			19:39t
08/27/2018 M	20:03et				21:36t	21:25s	
08/28/2018 Tu	3:46mt	1:18t	3:37r		1:46s		0:07s
08/28/2018 Tu	5:12r	7:11s	10:44t	9:17r		11:25r	
08/28/2018 Tu	11:54t		17:51s	14:38t	17:22r	16:23t	15:08r
08/28/2018 Tu	18:36s	19:59r		19:58s			19:35t
08/28/2018 Tu	20:01et				21:32t	21:21s	
08/29/2018 W	3:48mt	2:02t	3:39r		1:42s		0:03s
08/29/2018 W	5:13r	8:13s	10:46t	9:18r		11:21r	
08/29/2018 W	11:54t		17:52s	14:37t	17:18r	16:19t	15:04r
08/29/2018 W	18:34s			19:55s			19:31t
08/29/2018 W	19:59et	20:26r			21:28t	21:17s	23:59s
08/30/2018 Th	3:49mt	2:46t	3:41r		1:38s		
08/30/2018 Th	5:14r	9:17s	10:47t	9:19r		11:18r	
08/30/2018 Th	11:54t		17:52s	14:36t	17:14r	16:16t	15:00r
08/30/2018 Th	18:33s			19:53s			19:27t
08/30/2018 Th	19:57et	20:53r			21:24t	21:14s	23:55s
08/31/2018 F	3:51mt	3:32t	3:44r		1:35s		
08/31/2018 F	5:15r	10:22s	10:49t	9:19r		11:15r	
08/31/2018 F	11:53t		17:53s	14:35t	17:10r	16:13t	14:56r
08/31/2018 F	18:31s			19:50s			19:23t
08/31/2018 F	19:55et	21:23r			21:21t	21:10s	23:51s
09/01/2018 Sat	3:52mt	4:21t	3:48r		1:32s		
09/01/2018 Sat	5:16r	11:28s	10:51t	9:20r		11:12r	
09/01/2018 Sat	11:53t		17:54s	14:34t	17:06r	16:09t	14:52r
09/01/2018 Sat	18:29s			19:47s			19:20t
09/01/2018 Sat	19:53et	21:57r			21:17t	21:07s	23:47s
09/02/2018 Sun	3:54mt	5:12t	3:51r		1:28s		
09/02/2018 Sun	5:18r		10:54t	9:21r		11:09r	
09/02/2018 Sun	11:53t	12:36s	17:55s	14:33t	17:02r	16:06t	14:48r
09/02/2018 Sun	18:27s	19:37LQ		19:44s			19:16t
09/02/2018 Sun	19:51et	22:36r			21:13t	21:03s	23:43s
09/03/2018 M	3:55mt		3:56r		1:25s		
09/03/2018 M	5:19r	6:06t	10:56t	9:21r		11:05r	
09/03/2018 M	11:52t	13:43s	17:56s	14:32t	16:58r	16:03t	14:44r
09/03/2018 M	18:25s			19:42s			19:12t
09/03/2018 M	19:49et	23:23r			21:10t	21:00s	23:39s
09/04/2018 Tu	3:56mt		4:00r		1:22s		
09/04/2018 Tu	5:20r	7:04t	10:59t	9:22r		11:02r	
09/04/2018 Tu	11:52t	14:47s	17:57s	14:31t	16:54r	15:59t	14:40r
09/04/2018 Tu	18:24s			19:39s			19:08t
09/04/2018 Tu	19:47et				21:06t	20:56s	23:35s
09/05/2018 W	3:58mt	0:19r	4:05r		1:19s		
09/05/2018 W	5:21r	8:04t	11:02t	9:22r		10:59r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/05/2018 W	11:52t	15:46s	17:57s	14:30t	16:50r	15:56t	14:36r
09/05/2018 W	18:22s			19:36s			19:04t
09/05/2018 W	19:45et				21:03t	20:52s	23:31s
09/06/2018 Th	3:59mt	1:24r	4:11r		1:16s		
09/06/2018 Th	5:22r	9:04t	11:05t	9:23r		10:56r	
09/06/2018 Th	11:51t	16:39s	17:58s	14:28t	16:46r	15:52t	14:32r
09/06/2018 Th	18:20s			19:33s			19:00t
09/06/2018 Th	19:43et				20:59t	20:49s	23:27s
09/07/2018 F	4:01mt	2:35r	4:16r		1:13s		
09/07/2018 F	5:23r	10:04t	11:08t	9:23r		10:53r	
09/07/2018 F	11:51t	17:24s	17:59s	14:27t	16:42r	15:49t	14:29r
09/07/2018 F	18:18s			19:30s			18:56t
09/07/2018 F	19:41et				20:56t	20:45s	23:23s
09/08/2018 Sat	4:02mt	3:50r	4:22r		1:10s		
09/08/2018 Sat	5:24r	11:02t	11:11t	9:24r		10:50r	
09/08/2018 Sat	11:51t	18:03s	18:00s	14:26t	16:38r	15:46t	14:25r
09/08/2018 Sat	18:16s			19:27s			18:52t
09/08/2018 Sat	19:38et				20:53t	20:42s	23:19s
09/09/2018 Sun	4:03mt	5:07r	4:28r		1:07s		
09/09/2018 Sun	5:25r	11:01NM	11:15t	9:24r		10:47r	
09/09/2018 Sun	11:50t	11:58t	18:00s	14:24t	16:35r	15:42t	14:21r
09/09/2018 Sun	18:15s	18:38s		19:24s			18:48t
09/09/2018 Sun	19:36et				20:49t	20:38s	23:15s
09/10/2018 M	4:05mt		4:34r		1:04s		
09/10/2018 M	5:27r	6:21r	11:18t	9:24r		10:43r	
09/10/2018 M	11:50t	12:51t	18:01s	14:23t	16:31r	15:39t	14:17r
09/10/2018 M	18:13s	19:09s		19:21s			18:44t
09/10/2018 M	19:34et				20:46t	20:35s	23:11s
09/11/2018 Tu	4:06mt		4:40r		1:02s		
09/11/2018 Tu	5:28r	7:34r	11:21t	9:24r		10:40r	
09/11/2018 Tu	11:50t	13:42t	18:01s	14:22t	16:27r	15:36t	14:13r
09/11/2018 Tu	18:11s			19:18s			18:40t
09/11/2018 Tu	19:32et	19:39s			20:43t	20:31s	23:08s
09/12/2018 W	4:07mt		4:46r		0:59s		
09/12/2018 W	5:29r	8:45r	11:24t	9:24r		10:37r	
09/12/2018 W	11:49t	14:32t	18:01s	14:20t	16:24r	15:33t	14:09r
09/12/2018 W	18:09s			19:15s			18:36t
09/12/2018 W	19:30et	20:10s			20:40t	20:28s	23:04s
09/13/2018 Th	4:09mt		4:52r		0:57s		
09/13/2018 Th	5:30r	9:53r	11:28t	9:24r		10:34r	
09/13/2018 Th	11:49t	15:21t	18:01s	14:18t	16:20r	15:29t	14:05r
09/13/2018 Th	18:07s			19:12s			18:32t
09/13/2018 Th	19:28et	20:41s			20:37t	20:24s	23:00s
09/14/2018 F	4:10mt		4:58r		0:54s		
09/14/2018 F	5:31r	10:59r	11:31t	9:24r		10:31r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/14/2018 F	11:49t	16:10t	18:02s	14:17t	16:16r	15:26t	14:01r
09/14/2018 F	18:05s			19:09s			18:29t
09/14/2018 F	19:26et	21:14s			20:34t	20:21s	22:56s
09/15/2018 Sat	4:11mt		5:04r		0:52s		
09/15/2018 Sat	5:32r		11:34t	9:24r		10:28r	
09/15/2018 Sat	11:48t	12:01r		14:15t	16:13r	15:23t	13:57r
09/15/2018 Sat	18:03s	16:59t	18:02s	19:06s			18:25t
09/15/2018 Sat	19:24et	21:51s			20:31t	20:17s	22:52s
09/16/2018 Sun	4:13mt		5:10r		0:49s		
09/16/2018 Sun	5:34r		11:37t	9:23r		10:25r	
09/16/2018 Sun	11:48t	13:00r		14:13t	16:09r	15:19t	13:54r
09/16/2018 Sun		16:15FQ					
09/16/2018 Sun	18:02s	17:47t	18:01s	19:02s			18:21t
09/16/2018 Sun	19:22et	22:32s			20:28t	20:14s	22:48s
09/17/2018 M	4:14mt		5:16r		0:47s		
09/17/2018 M	5:35r		11:40t	9:23r		10:22r	
09/17/2018 M	11:48t	13:54r		14:11t	16:06r	15:16t	13:50r
09/17/2018 M	18:00s	18:36t	18:01s	18:59s			18:17t
09/17/2018 M	19:20et	23:18s			20:25t	20:10s	22:44s
09/18/2018 Tu	4:15mt		5:22r		0:45s		
09/18/2018 Tu	5:36r		11:43t	9:22r		10:19r	
09/18/2018 Tu	11:47t	14:43r		14:09t	16:02r	15:13t	13:46r
09/18/2018 Tu	17:58s		18:01s	18:56s			18:13t
09/18/2018 Tu	19:18et	19:25t			20:22t	20:07s	22:40s
09/19/2018 W	4:17mt	0:08s	5:28r		0:43s		
09/19/2018 W	5:37r		11:45t	9:22r		10:16r	
09/19/2018 W	11:47t	15:26r		14:07t	15:59r	15:10t	13:42r
09/19/2018 W	17:56s		18:01s	18:52s			18:09t
09/19/2018 W	19:16et	20:13t			20:20t	20:03s	22:37s
09/20/2018 Th	4:18mt	1:02s	5:34r		0:40s		
09/20/2018 Th	5:38r			9:21r		10:13r	
09/20/2018 Th	11:47t	16:04r	11:48t	14:05t	15:56r	15:06t	13:38r
09/20/2018 Th	17:54s		18:00s	18:49s			18:06t
09/20/2018 Th	19:14et	20:59t			20:17t	20:00s	22:33s
09/21/2018 F	4:19mt	2:00s			0:38s		
09/21/2018 F	5:39r		5:40r	9:20r		10:10r	
09/21/2018 F	11:46t	16:38r	11:51t	14:03t	15:52r	15:03t	13:34r
09/21/2018 F	17:52s		18:00s	18:45s			18:02t
09/21/2018 F	19:12et	21:45t			20:14t	19:57s	22:29s
09/22/2018 Sat	4:20mt	2:59s			0:36s		
09/22/2018 Sat	5:40r		5:46r	9:19r		10:07r	
09/22/2018 Sat	11:46t	17:08r	11:53t	14:00t	15:49r	15:00t	13:31r
09/22/2018 Sat	17:50s		17:59s	18:42s			17:58t
09/22/2018 Sat	18:54SE						
09/22/2018 Sat	19:10et	22:30t			20:12t	19:53s	22:25s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/23/2018 Sun	4:22mt	4:00s			0:34s		
09/23/2018 Sun	5:42r		5:51r	9:17r		10:04r	
09/23/2018 Sun	11:45t	17:36r	11:56t	13:58t	15:46r	14:57t	13:27r
09/23/2018 Sun	17:49s		17:59s	18:38s			17:54t
09/23/2018 Sun	19:08et	23:15t			20:09t	19:50s	22:21s
09/24/2018 M	4:23mt	5:02s			0:32s		
09/24/2018 M	5:43r		5:57r	9:16r		10:01r	
09/24/2018 M	11:45t		11:58t	13:55t	15:42r	14:53t	13:23r
09/24/2018 M	17:47s	18:03r	17:58s	18:35s			17:50t
09/24/2018 M	19:06et	19:52FM			20:06t	19:46s	22:17s
09/24/2018 M		23:59t					
09/25/2018 Tu	4:24mt				0:31s		
09/25/2018 Tu	5:44r	6:05s	6:02r	9:14r		9:58r	
09/25/2018 Tu	11:45t		12:01t	13:53t	15:39r	14:50t	13:19r
09/25/2018 Tu	17:45s	18:29r	17:58s	18:31s			17:46t
09/25/2018 Tu	19:04et				20:04t	19:43s	22:14s
09/26/2018 W	4:25mt	0:44t			0:29s		
09/26/2018 W	5:45r	7:09s	6:08r	9:13r		9:55r	
09/26/2018 W	11:44t		12:03t	13:50t	15:36r	14:47t	13:16r
09/26/2018 W	17:43s	18:56r	17:57s	18:27s			17:43t
09/26/2018 W	19:02et				20:01t	19:39s	22:10s
09/27/2018 Th	4:27mt	1:30t			0:27s		
09/27/2018 Th	5:46r	8:14s	6:13r	9:11r		9:52r	
09/27/2018 Th	11:44t		12:05t	13:47t	15:33r	14:44t	13:12r
09/27/2018 Th	17:41s		17:56s	18:23s			17:39t
09/27/2018 Th	19:00et	19:25r			19:59t	19:36s	22:06s
09/28/2018 F	4:28mt	2:18t			0:25s		
09/28/2018 F	5:47r	9:21s	6:18r	9:09r		9:49r	
09/28/2018 F	11:44t		12:07t	13:44t	15:30r	14:41t	13:08r
09/28/2018 F	17:39s		17:55s	18:19s			17:35t
09/28/2018 F	18:59et	19:58r			19:56t	19:33s	22:02s
09/29/2018 Sat	4:29mt	3:09t			0:24s		
09/29/2018 Sat	5:49r	10:29s	6:23r	9:06r		9:46r	
09/29/2018 Sat	11:43t		12:10t	13:41t	15:26r	14:37t	13:04r
09/29/2018 Sat	17:38s		17:55s	18:15s			17:31t
09/29/2018 Sat	18:57et	20:35r			19:54t	19:29s	21:58s
09/30/2018 Sun	4:30mt	4:02t			0:22s		
09/30/2018 Sun	5:50r	11:36s	6:28r	9:04r		9:43r	
09/30/2018 Sun	11:43t		12:12t	13:38t	15:23r	14:34t	13:00r
09/30/2018 Sun	17:36s		17:54s	18:11s			17:28t
09/30/2018 Sun	18:55et	21:19r			19:52t	19:26s	21:55s
10/01/2018 M	4:32mt	4:58t			0:20s		
10/01/2018 M	5:51r		6:33r	9:01r		9:40r	
10/01/2018 M	11:43t	12:40s	12:14t	13:34t	15:20r	14:31t	12:57r
10/01/2018 M	17:34s		17:53s	18:07s			17:24t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/01/2018 M	18:53et	22:11r			19:49t	19:22s	21:51s
10/02/2018 Tu	4:33mt	2:45LQ			0:19s		
10/02/2018 Tu	5:52r	5:56t	6:38r	8:58r		9:37r	
10/02/2018 Tu	11:42t	13:40s	12:16t	13:31t	15:17r	14:28t	12:53r
10/02/2018 Tu	17:32s		17:52s	18:03s			17:20t
10/02/2018 Tu	18:51et	23:11r			19:47t	19:19s	21:47s
10/03/2018 W	4:34mt				0:17s		
10/03/2018 W	5:53r	6:54t	6:43r	8:55r		9:34r	
10/03/2018 W	11:42t	14:33s	12:18t	13:27t	15:14r	14:25t	12:49r
10/03/2018 W	17:30s		17:51s	17:59s			17:16t
10/03/2018 W	18:49et				19:45t	19:16s	21:43s
10/04/2018 Th	4:35mt	0:18r			0:16s		
10/04/2018 Th	5:55r	7:53t	6:48r	8:52r		9:31r	
10/04/2018 Th	11:42t	15:19s	12:20t	13:23t	15:11r	14:22t	12:45r
10/04/2018 Th	17:28s		17:50s	17:55s			17:13t
10/04/2018 Th	18:47et				19:42t	19:12s	21:40s
10/05/2018 F	4:37mt	1:30r			0:14s		
10/05/2018 F	5:56r	8:50t	6:53r	8:48r		9:28r	
10/05/2018 F	11:42t	15:59s	12:22t	13:19t	15:08r	14:18t	12:42r
10/05/2018 F	17:27s		17:49s	17:51s			17:09t
10/05/2018 F	18:46et				19:40t	19:09s	21:36s
10/06/2018 Sat	4:38mt	2:44r			0:13s		
10/06/2018 Sat	5:57r	9:45t	6:58r	8:44r		9:25r	
10/06/2018 Sat	11:41t	16:34s	12:24t	13:15t	15:05r	14:15t	12:38r
10/06/2018 Sat	17:25s		17:49s	17:46s			17:05t
10/06/2018 Sat	18:44et				19:38t	19:05s	21:32s
10/07/2018 Sun	4:39mt	3:58r			0:11s		
10/07/2018 Sun	5:58r	10:38t	7:02r	8:40r		9:22r	
10/07/2018 Sun	11:41t		12:26t	13:11t	15:02r	14:12t	12:34r
10/07/2018 Sun	17:23s	17:06s	17:48s	17:42s			17:01t
10/07/2018 Sun	18:42et				19:36t	19:02s	21:28s
10/08/2018 M	4:40mt	5:11r			0:10s		
10/08/2018 M	5:59r	11:29t	7:07r	8:36r		9:19r	
10/08/2018 M	11:41t		12:28t	13:07t	14:59r	14:09t	12:31r
10/08/2018 M	17:21s	17:36s	17:47s	17:37s			16:58t
10/08/2018 M	18:40et	20:47NM			19:34t	18:59s	21:25s
10/09/2018 Tu	4:41mt				0:09s		
10/09/2018 Tu	6:01r	6:23r	7:12r	8:31r		9:16r	
10/09/2018 Tu	11:40t	12:19t	12:29t	13:02t	14:56r	14:06t	12:27r
10/09/2018 Tu	17:20s	18:06s	17:46s	17:33s			16:54t
10/09/2018 Tu	18:39et				19:32t	18:55s	21:21s
10/10/2018 W	4:43mt				0:07s		
10/10/2018 W	6:02r	7:33r	7:16r	8:27r		9:13r	
10/10/2018 W	11:40t	13:09t	12:31t	12:57t	14:53r	14:03t	12:23r
10/10/2018 W	17:18s		17:45s	17:28s			16:50t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/10/2018 W	18:37et	18:37s			19:29t	18:52s	21:17s
10/11/2018 Th	4:44mt				0:06s		
10/11/2018 Th	6:03r	8:41r	7:21r	8:22r		9:10r	
10/11/2018 Th	11:40t	13:59t	12:33t	12:53t	14:50r	14:00t	12:19r
10/11/2018 Th	17:16s		17:44s	17:24s			16:47t
10/11/2018 Th	18:35et	19:10s			19:27t	18:49s	21:14s
10/12/2018 F	4:45mt				0:05s		
10/12/2018 F	6:04r	9:47r	7:25r	8:16r		9:08r	
10/12/2018 F	11:40t	14:49t	12:35t	12:48t	14:47r	13:56t	12:16r
10/12/2018 F	17:14s		17:43s	17:19s			16:43t
10/12/2018 F	18:33et	19:45s			19:25t	18:45s	21:10s
10/13/2018 Sat	4:46mt				0:04s		
10/13/2018 Sat	6:05r	10:49r	7:30r	8:11r		9:05r	
10/13/2018 Sat	11:39t	15:39t	12:37t	12:42t	14:44r	13:53t	12:12r
10/13/2018 Sat	17:13s		17:43s	17:14s			16:39t
10/13/2018 Sat	18:32et	20:25s			19:23t	18:42s	21:06s
10/14/2018 Sun	4:47mt				0:03s		
10/14/2018 Sun	6:07r		7:34r	8:05r		9:02r	
10/14/2018 Sun	11:39t	11:46r	12:38t	12:37t	14:41r	13:50t	12:08r
10/14/2018 Sun	17:11s	16:28t	17:42s	17:10s			16:36t
10/14/2018 Sun	18:30et	21:10s			19:21t	18:39s	21:03s
10/15/2018 M	4:49mt				0:01s		
10/15/2018 M	6:08r		7:38r	7:59r		8:59r	
10/15/2018 M	11:39t	12:37r	12:40t	12:32t	14:39r	13:47t	12:05r
10/15/2018 M	17:09s	17:18t	17:41s	17:05s			16:32t
10/15/2018 M	18:28et	21:59s			19:19t	18:35s	20:59s
10/16/2018 Tu	4:50mt				0:00s		
10/16/2018 Tu	6:09r	11:02FQ	7:43r	7:53r		8:56r	
10/16/2018 Tu	11:39t	13:23r	12:42t	12:26t	14:36r	13:44t	12:01r
10/16/2018 Tu	17:08s	18:06t	17:40s	17:00s			16:28t
10/16/2018 Tu	18:27et	22:52s			19:17t	18:32s	20:55s
10/16/2018 Tu					23:59s		
10/17/2018 W	4:51mt						
10/17/2018 W	6:10r		7:47r	7:46r		8:53r	
10/17/2018 W	11:38t	14:03r	12:44t	12:21t	14:33r	13:41t	11:57r
10/17/2018 W	17:06s		17:40s	16:56s			16:25t
10/17/2018 W	18:25et	18:54t			19:15t	18:29s	20:52s
10/17/2018 W		23:48s			23:58s		
10/18/2018 Th	4:52mt						
10/18/2018 Th	6:12r		7:51r	7:39r		8:50r	
10/18/2018 Th	11:38t	14:38r	12:45t	12:15t	14:30r	13:38t	11:54r
10/18/2018 Th	17:04s		17:39s	16:51s			16:21t
10/18/2018 Th	18:24et	19:40t			19:13t	18:25s	20:48s
10/18/2018 Th					23:57s		
10/19/2018 F	4:53mt	0:47s					

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/19/2018 F	6:13r		7:55r	7:32r		8:47r	
10/19/2018 F	11:38t	15:09r	12:47t	12:09t	14:27r	13:35t	11:50r
10/19/2018 F	17:03s		17:38s	16:46s		18:22s	16:17t
10/19/2018 F	18:22et	20:25t			19:11t		20:44s
10/19/2018 F					23:56s		
10/20/2018 Sat	4:55mt	1:47s					
10/20/2018 Sat	6:14r		7:59r	7:25r		8:45r	
10/20/2018 Sat	11:38t	15:38r	12:49t	12:03t	14:24r	13:32t	11:47r
10/20/2018 Sat	17:01s		17:38s	16:42s		18:19s	16:14t
10/20/2018 Sat	18:21et	21:09t			19:10t		20:41s
10/20/2018 Sat					23:55s		
10/21/2018 Sun	4:56mt	2:49s					
10/21/2018 Sun	6:16r		8:03r	7:18r		8:42r	
10/21/2018 Sun	11:38t	16:05r	12:50t	11:57t	14:21r	13:29t	11:43r
10/21/2018 Sun	16:59s		17:37s	16:37s		18:15s	16:10t
10/21/2018 Sun	18:19et	21:54t			19:08t		20:37s
10/21/2018 Sun					23:54s		
10/22/2018 M	4:57mt	3:51s					
10/22/2018 M	6:17r		8:07r	7:11r		8:39r	
10/22/2018 M	11:38t		12:52t	11:51t	14:19r	13:25t	11:39r
10/22/2018 M	16:58s	16:31r	17:36s	16:33s		18:12s	16:06t
10/22/2018 M	18:18et	22:38t			19:06t		20:33s
10/22/2018 M					23:53s		
10/23/2018 Tu	4:58mt	4:56s					
10/23/2018 Tu	6:18r		8:11r	7:03r		8:36r	11:36r
10/23/2018 Tu	11:37t		12:54t	11:45t	14:16r	13:22t	16:03t
10/23/2018 Tu	16:56s	16:58r	17:36s	16:28s		18:09s	
10/23/2018 Tu	18:16et	23:25t			19:04t		20:30s
10/23/2018 Tu					23:52s		
10/24/2018 W	4:59mt	6:02s					
10/24/2018 W	6:19r	9:45FM	8:14r	6:56r		8:33r	11:32r
10/24/2018 W	11:37t		12:55t	11:39t	14:13r	13:19t	15:59t
10/24/2018 W	16:55s	17:26r	17:35s	16:24s		18:05s	
10/24/2018 W	18:15et				19:02t		20:26s
10/24/2018 W					23:51s		
10/25/2018 Th	5:01mt	0:13t					
10/25/2018 Th	6:21r	7:10s	8:18r	6:48r		8:30r	11:28r
10/25/2018 Th	11:37t		12:57t	11:33t	14:10r	13:16t	15:55t
10/25/2018 Th	16:53s	17:58r	17:35s	16:19s		18:02s	
10/25/2018 Th	18:13et				19:00t		20:23s
10/25/2018 Th					23:50s		
10/26/2018 F	5:02mt	1:03t					
10/26/2018 F	6:22r	8:19s	8:22r	6:40r		8:27r	11:25r
10/26/2018 F	11:37t		12:58t	11:27t	14:08r	13:13t	15:52t
10/26/2018 F	16:52s		17:34s	16:15s		17:59s	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/26/2018 F	18:12et	18:34r			18:58t		20:19s
10/26/2018 F					23:50s		
10/27/2018 Sat	5:03mt	1:57t					
10/27/2018 Sat	6:23r	9:28s	8:25r	6:32r		8:25r	
10/27/2018 Sat	11:37t		13:00t	11:21t	14:05r	13:10t	11:21r
10/27/2018 Sat	16:50s		17:34s	16:10s		17:56s	15:48t
10/27/2018 Sat	18:10et	19:16r			18:57t		20:15s
10/27/2018 Sat					23:49s		
10/28/2018 Sun	5:04mt	2:53t		6:25r			
10/28/2018 Sun	6:25r	10:35s	8:28r	11:15t		8:22r	11:18r
10/28/2018 Sun	11:37t		13:01t	16:06s	14:02r	13:07t	15:45t
10/28/2018 Sun	16:49s		17:34s			17:52s	
10/28/2018 Sun	18:09et	20:06r			18:55t		20:12s
10/28/2018 Sun					23:48s		
10/29/2018 M	5:05mt	3:51t		6:17r			
10/29/2018 M	6:26r		8:31r	11:09t		8:19r	11:14r
10/29/2018 M	11:37t	11:37s	13:03t	16:02s	13:59r	13:04t	15:41t
10/29/2018 M	16:47s		17:33s			17:49s	
10/29/2018 M	18:08et	21:04r			18:53t		20:08s
10/29/2018 M					23:47s		
10/30/2018 Tu	5:06mt	4:50t		6:09r			
10/30/2018 Tu	6:27r		8:34r	11:03t		8:16r	11:10r
10/30/2018 Tu	11:37t	12:32s	13:04t	15:58s	13:56r	13:01t	15:37t
10/30/2018 Tu	16:46s		17:33s			17:46s	
10/30/2018 Tu	18:07et	22:09r			18:51t		20:05s
10/30/2018 Tu					23:46s		
10/31/2018 W	5:08mt	5:48t		6:02r			
10/31/2018 W	6:29r	9:40LQ	8:37r	10:57t		8:13r	11:07r
10/31/2018 W	11:37t	13:20s	13:05t	15:54s	13:54r	12:58t	15:34t
10/31/2018 W	16:44s		17:32s			17:42s	
10/31/2018 W	18:05et	23:18r			18:49t		20:01s
10/31/2018 W					23:46s		
11/01/2018 Th	5:09mt			5:54r			
11/01/2018 Th	6:30r	6:44t	8:40r	10:52t		8:11r	11:03r
11/01/2018 Th	11:37t	14:00s	13:06t	15:50s	13:51r	12:55t	15:30t
11/01/2018 Th	16:43s		17:32s			17:39s	
11/01/2018 Th	18:04et				18:48t		19:57s
11/01/2018 Th					23:45s		
11/02/2018 F	5:10mt	0:30r		5:47r			
11/02/2018 F	6:31r	7:38t	8:42r	10:46t		8:08r	11:00r
11/02/2018 F	11:37t	14:36s	13:07t	15:46s	13:48r	12:52t	15:27t
11/02/2018 F	16:42s		17:32s			17:36s	
11/02/2018 F	18:03et				18:46t		19:54s
11/02/2018 F					23:44s		
11/03/2018 Sat	5:11mt	1:42r		5:39r			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/03/2018 Sat	6:33r	8:30t	8:45r	10:41t		8:05r	10:56r
11/03/2018 Sat	11:37t	15:07s	13:08t	15:43s	13:45r	12:49t	15:23t
11/03/2018 Sat	16:40s		17:31s			17:33s	
11/03/2018 Sat	18:02et				18:44t		19:50s
11/03/2018 Sat					23:43s		
11/04/2018 Sun	5:12mt	2:54r		5:32r			
11/04/2018 Sun	6:34r	9:21t	8:47r	10:35t		8:02r	10:52r
11/04/2018 Sun	11:37t	15:37s	13:09t	15:39s	13:43r	12:46t	15:20t
11/04/2018 Sun	16:39s		17:31s			17:29s	
11/04/2018 Sun	18:01et				18:42t		19:47s
11/04/2018 Sun					23:43s		
11/05/2018 M	5:14mt	4:04r		5:25r			
11/05/2018 M	6:35r	10:10t	8:48r	10:30t		7:59r	10:49r
11/05/2018 M	11:37t	16:05s	13:10t	15:35s	13:40r	12:43t	15:16t
11/05/2018 M	16:38s		17:31s			17:26s	
11/05/2018 M	17:59et				18:41t		19:43s
11/05/2018 M					23:42s		
11/06/2018 Tu	5:15mt	5:14r		5:19r			
11/06/2018 Tu	6:37r	10:59t	8:50r	10:25t		7:56r	10:45r
11/06/2018 Tu	11:37t	16:35s	13:10t	15:32s	13:37r	12:40t	15:13t
11/06/2018 Tu	16:37s		17:30s			17:23s	
11/06/2018 Tu	17:58et				18:39t		19:40s
11/06/2018 Tu					23:41s		
11/07/2018 W	5:16mt	6:23r		5:12r			
11/07/2018 W	6:38r	9:02NM	8:51r	10:20t		7:54r	10:42r
11/07/2018 W	11:37t	11:48t	13:10t	15:29s	13:35r	12:37t	15:09t
11/07/2018 W	16:35s	17:06s	17:29s			17:20s	
11/07/2018 W	17:57et				18:37t		19:36s
11/07/2018 W					23:40s		
11/08/2018 Th	5:17mt			5:06r			
11/08/2018 Th	6:39r	7:30r	8:52r	10:15t		7:51r	10:38r
11/08/2018 Th	11:37t	12:38t	13:10t	15:25s	13:32r	12:34t	15:05t
11/08/2018 Th	16:34s	17:40s	17:29s			17:16s	
11/08/2018 Th	17:56et				18:36t		19:33s
11/08/2018 Th					23:40s		
11/09/2018 F	5:18mt			5:00r			
11/09/2018 F	6:41r	8:34r	8:52r	10:11t		7:48r	10:35r
11/09/2018 F	11:37t	13:28t	13:10t	15:22s	13:29r	12:31t	15:02t
11/09/2018 F	16:33s		17:28s			17:13s	
11/09/2018 F	17:55et	18:18s			18:34t		19:29s
11/09/2018 F					23:39s		
11/10/2018 Sat	5:19mt			4:54r			
11/10/2018 Sat	6:42r	9:34r	8:52r	10:06t		7:45r	10:31r
11/10/2018 Sat	11:37t	14:19t	13:09t	15:19s	13:26r	12:28t	14:58t
11/10/2018 Sat	16:32s		17:27s			17:10s	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/10/2018 Sat	17:54et	19:01s			18:32t		19:26s
11/10/2018 Sat					23:38s		
11/11/2018 Sun	5:21mt			4:48r			
11/11/2018 Sun	6:43r	10:29r	8:51r	10:02t		7:42r	10:28r
11/11/2018 Sun	11:37t	15:09t	13:09t	15:16s	13:24r	12:25t	14:55t
11/11/2018 Sun	16:31s		17:26s			17:07s	
11/11/2018 Sun	17:53et	19:49s			18:31t		19:22s
11/11/2018 Sun					23:38s		
11/12/2018 M	5:22mt			4:43r			
11/12/2018 M	6:45r	11:18r	8:50r	9:57t		7:40r	10:24r
11/12/2018 M	11:37t	15:58t	13:07t	15:13s	13:21r	12:22t	14:51t
11/12/2018 M	16:30s		17:24s			17:03s	
11/12/2018 M	17:52et	20:40s			18:29t		19:19s
11/12/2018 M					23:37s		
11/13/2018 Tu	5:23mt			4:37r			
11/13/2018 Tu	6:46r		8:48r	9:53t		7:37r	10:21r
11/13/2018 Tu	11:38t	12:01r	13:06t	15:10s	13:18r	12:19t	14:48t
11/13/2018 Tu	16:29s	16:47t	17:23s			17:00s	
11/13/2018 Tu	17:52et	21:36s			18:27t		19:15s
11/13/2018 Tu					23:37s		
11/14/2018 W	5:24mt			4:32r			
11/14/2018 W	6:47r		8:46r	9:49t		7:34r	10:17r
11/14/2018 W	11:38t	12:38r	13:03t	15:07s	13:16r	12:15t	14:44t
11/14/2018 W	16:28s	17:33t	17:21s			16:57s	
11/14/2018 W	17:51et	22:34s			18:26t		19:11s
11/14/2018 W					23:36s		
11/15/2018 Th	5:25mt			4:28r			
11/15/2018 Th	6:49r	7:54FQ	8:43r	9:46t		7:31r	10:13r
11/15/2018 Th	11:38t	13:10r	13:00t	15:04s	13:13r	12:12t	14:41t
11/15/2018 Th	16:27s		17:18s			16:54s	
11/15/2018 Th	17:50et	18:18t			18:24t		19:08s
11/15/2018 Th		23:33s			23:35s		
11/16/2018 F	5:26mt			4:23r			
11/16/2018 F	6:50r		8:39r	9:42t		7:28r	10:10r
11/16/2018 F	11:38t	13:39r	12:57t	15:01s	13:10r	12:09t	14:37t
11/16/2018 F	16:26s		17:16s			16:50s	
11/16/2018 F	17:49et	19:03t			18:22t		19:04s
11/16/2018 F					23:35s		
11/17/2018 Sat	5:27mt	0:33s		4:19r			
11/17/2018 Sat	6:51r		8:34r	9:39t		7:26r	10:06r
11/17/2018 Sat	11:38t	14:06r	12:53t	14:59s	13:08r	12:06t	14:34t
11/17/2018 Sat	16:25s		17:13s			16:47s	
11/17/2018 Sat	17:49et	19:46t			18:21t		19:01s
11/17/2018 Sat					23:34s		
11/18/2018 Sun	5:29mt	1:35s		4:15r			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/18/2018 Sun	6:52r		8:28r	9:35t		7:23r	10:03r
11/18/2018 Sun	11:38t	14:32r	12:48t	14:56s	13:05r	12:03t	14:30t
11/18/2018 Sun	16:24s		17:09s			16:44s	
11/18/2018 Sun	17:48et	20:30t			18:19t		18:57s
11/18/2018 Sun					23:34s		
11/19/2018 M	5:30mt	2:38s		4:11r			
11/19/2018 M	6:54r		8:22r	9:32t		7:20r	9:59r
11/19/2018 M	11:39t	14:58r	12:43t	14:54s	13:02r	12:00t	14:27t
11/19/2018 M	16:23s		17:05s			16:41s	
11/19/2018 M	17:47et	21:16t			18:17t		18:54s
11/19/2018 M					23:33s		
11/20/2018 Tu	5:31mt	3:43s		4:07r			
11/20/2018 Tu	6:55r		8:14r	9:29t		7:17r	9:56r
11/20/2018 Tu	11:39t	15:25r	12:37t	14:51s	13:00r	11:57t	14:23t
11/20/2018 Tu	16:22s		17:00s			16:38s	
11/20/2018 Tu	17:47et	22:03t			18:16t		18:51s
11/20/2018 Tu					23:33s		
11/21/2018 W	5:32mt	4:51s		4:03r			
11/21/2018 W	6:56r		8:06r	9:26t		7:14r	9:52r
11/21/2018 W	11:39t	15:55r	12:30t	14:49s	12:57r	11:54t	14:20t
11/21/2018 W	16:22s		16:55s			16:34s	
11/21/2018 W	17:46et	22:52t			18:14t		18:47s
11/21/2018 W					23:32s		
11/22/2018 Th	5:33mt	6:00s		4:00r			
11/22/2018 Th	6:58r		7:56r	9:23t		7:12r	9:49r
11/22/2018 Th	11:39t		12:22t	14:46s	12:54r	11:51t	14:16t
11/22/2018 Th	16:21s	16:29r	16:50s			16:31s	
11/22/2018 Th	17:45et	22:39FM			18:13t		18:44s
11/22/2018 Th		23:46t			23:31s		
11/23/2018 F	5:34mt			3:57r			
11/23/2018 F	6:59r	7:12s	7:46r	9:20t		7:09r	9:45r
11/23/2018 F	11:40t		12:14t	14:44s	12:52r	11:48t	14:13t
11/23/2018 F	16:20s	17:10r	16:44s			16:28s	
11/23/2018 F	17:45et				18:11t		18:40s
11/23/2018 F					23:31s		
11/24/2018 Sat	5:35mt	0:42t		3:54r			
11/24/2018 Sat	7:00r	8:22s	7:35r	9:18t		7:06r	9:42r
11/24/2018 Sat	11:40t		12:06t	14:42s	12:49r	11:45t	14:09t
11/24/2018 Sat	16:19s		16:37s			16:25s	
11/24/2018 Sat	17:44et	17:58r			18:09t		18:37s
11/24/2018 Sat					23:30s		
11/25/2018 Sun	5:36mt	1:42t		3:52r			
11/25/2018 Sun	7:01r	9:29s	7:23r	9:15t		7:03r	9:38r
11/25/2018 Sun	11:40t		11:56t	14:39s	12:46r	11:42t	14:06t
11/25/2018 Sun	16:19s		16:31s			16:22s	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/25/2018 Sun	17:44et	18:54r			18:08t		18:33s
11/25/2018 Sun					23:30s		
11/26/2018 M	5:37mt	2:42t		3:49r		7:00r	
11/26/2018 M	7:02r	10:28s	7:11r	9:13t		11:39t	9:35r
11/26/2018 M	11:41t		11:47t	14:37s	12:43r		14:02t
11/26/2018 M	16:18s		16:24s			16:18s	
11/26/2018 M	17:44et	19:59r			18:06t		18:30s
11/26/2018 M					23:29s		
11/27/2018 Tu	5:38mt	3:42t	6:59r	3:47r		6:58r	
11/27/2018 Tu	7:04r	11:20s	11:38t	9:11t		11:36t	9:31r
11/27/2018 Tu	11:41t		16:17s	14:35s	12:41r	16:15s	13:59t
11/27/2018 Tu	16:18s						
11/27/2018 Tu	17:43et	21:09r			18:05t		18:26s
11/27/2018 Tu					23:29s		
11/28/2018 W	5:39mt	4:40t	6:47r	3:45r		6:55r	
11/28/2018 W	7:05r		11:28t	9:09t		11:33t	9:28r
11/28/2018 W	11:41t	12:03s	16:11s	14:33s	12:38r	16:12s	13:55t
11/28/2018 W	16:17s						
11/28/2018 W	17:43et	22:21r			18:03t		18:23s
11/28/2018 W					23:28s		
11/29/2018 Th	5:40mt	5:36t	6:36r	3:43r		6:52r	
11/29/2018 Th	7:06r		11:20t	9:07t		11:30t	9:24r
11/29/2018 Th	11:42t	12:40s	16:04s	14:31s	12:35r	16:09s	13:52t
11/29/2018 Th	16:17s	17:19LQ					
11/29/2018 Th	17:43et				18:01t		18:19s
11/29/2018 Th		23:33r			23:28s		
11/30/2018 F	5:41mt	6:28t	6:25r	3:41r		6:49r	
11/30/2018 F	7:07r		11:11t	9:05t		11:27t	9:21r
11/30/2018 F	11:42t	13:12s	15:58s	14:29s	12:33r	16:06s	13:48t
11/30/2018 F	16:16s						
11/30/2018 F	17:42et				18:00t		18:16s
11/30/2018 F					23:27s		
12/01/2018 Sat	5:42mt	0:44r	6:15r	3:39r		6:46r	
12/01/2018 Sat	7:08r	7:18t	11:03t	9:03t		11:24t	9:17r
12/01/2018 Sat	11:42t	13:41s	15:52s	14:27s	12:30r	16:02s	13:45t
12/01/2018 Sat	16:16s						
12/01/2018 Sat	17:42et				17:58t		18:12s
12/01/2018 Sat					23:27s		
12/02/2018 Sun	5:43mt	1:53r	6:06r	3:38r		6:44r	
12/02/2018 Sun	7:09r	8:06t	10:56t	9:01t		11:21t	9:14r
12/02/2018 Sun	11:43t	14:09s	15:46s	14:25s	12:27r	15:59s	13:41t
12/02/2018 Sun	16:16s						
12/02/2018 Sun	17:42et				17:57t		18:09s
12/02/2018 Sun					23:26s		
12/03/2018 M	5:44mt	3:02r	5:58r	3:36r		6:41r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/03/2018 M	7:10r	8:54t	10:49t	9:00t		11:18t	9:10r
12/03/2018 M	11:43t	14:37s	15:41s	14:23s	12:25r	15:56s	13:38t
12/03/2018 M	16:15s						
12/03/2018 M	17:42et				17:55t		18:06s
12/03/2018 M					23:26s		
12/04/2018 Tu	5:45mt	4:09r	5:51r	3:35r		6:38r	
12/04/2018 Tu	7:11r	9:42t	10:43t	8:58t		11:15t	9:07r
12/04/2018 Tu	11:43t	15:06s	15:36s	14:21s	12:22r	15:53s	13:35t
12/04/2018 Tu	16:15s						
12/04/2018 Tu	17:42et				17:54t		18:02s
12/04/2018 Tu					23:25s		
12/05/2018 W	5:46mt	5:16r	5:45r	3:34r		6:35r	
12/05/2018 W	7:13r	10:30t	10:38t	8:57t		11:12t	9:03r
12/05/2018 W	11:44t	15:38s	15:32s	14:19s	12:19r	15:50s	13:31t
12/05/2018 W	16:15s						
12/05/2018 W	17:42et				17:52t		17:59s
12/05/2018 W					23:25s		
12/06/2018 Th	5:47mt	6:21r	5:40r	3:33r		6:32r	
12/06/2018 Th	7:14r	11:20t	10:34t	8:55t		11:09t	9:00r
12/06/2018 Th	11:44t	16:14s	15:28s	14:17s	12:17r	15:46s	13:28t
12/06/2018 Th	16:15s						
12/06/2018 Th	17:42et				17:50t		17:55s
12/06/2018 Th					23:25s		
12/07/2018 F	5:48mt	0:20NM	5:36r	3:32r		6:29r	
12/07/2018 F	7:15r	7:23r	10:30t	8:54t		11:06t	8:56r
12/07/2018 F	11:45t	12:10t	15:24s	14:16s	12:14r	15:43s	13:24t
12/07/2018 F	16:15s	16:54s					
12/07/2018 F	17:42et				17:49t		17:52s
12/07/2018 F					23:24s		
12/08/2018 Sat	5:49mt		5:33r	3:31r		6:27r	
12/08/2018 Sat	7:15r	8:20r	10:27t	8:53t		11:03t	8:53r
12/08/2018 Sat	11:45t	13:01t	15:21s	14:14s	12:11r	15:40s	13:21t
12/08/2018 Sat	16:15s	17:40s					
12/08/2018 Sat	17:42et				17:47t		17:48s
12/08/2018 Sat					23:24s		
12/09/2018 Sun	5:49mt		5:31r	3:30r		6:24r	
12/09/2018 Sun	7:16r	9:12r	10:25t	8:51t		11:00t	8:49r
12/09/2018 Sun	11:46t	13:51t	15:18s	14:12s	12:09r	15:37s	13:17t
12/09/2018 Sun	16:15s						
12/09/2018 Sun	17:42et	18:30s			17:46t		17:45s
12/09/2018 Sun					23:23s		
12/10/2018 M	5:50mt		5:30r	3:30r		6:21r	
12/10/2018 M	7:17r	9:57r	10:23t	8:50t		10:57t	8:46r
12/10/2018 M	11:46t	14:40t	15:16s	14:10s	12:06r	15:34s	13:14t
12/10/2018 M	16:15s						17:42s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/10/2018 M	17:42et	19:25s			17:44t		
12/10/2018 M					23:23s		
12/11/2018 Tu	5:51mt		5:29r	3:30r		6:18r	
12/11/2018 Tu	7:18r	10:37r	10:21t	8:49t		10:54t	8:43r
12/11/2018 Tu	11:47t	15:27t	15:14s	14:09s	12:03r	15:31s	13:10t
12/11/2018 Tu	16:15s						17:38s
12/11/2018 Tu	17:42et	20:22s			17:43t		
12/11/2018 Tu					23:22s		
12/12/2018 W	5:52mt		5:29r	3:29r		6:15r	
12/12/2018 W	7:19r	11:11r	10:20t	8:48t		10:51t	8:39r
12/12/2018 W	11:47t	16:13t	15:12s	14:07s	12:01r	15:27s	13:07t
12/12/2018 W	16:15s				17:41t		17:35s
12/12/2018 W	17:42et	21:20s			23:22s		
12/13/2018 Th	5:53mt		5:29r	3:29r		6:13r	
12/13/2018 Th	7:20r	11:41r	10:20t	8:47t		10:48t	8:36r
12/13/2018 Th	11:47t		15:10s	14:05s	11:58r	15:24s	13:04t
12/13/2018 Th	16:15s	16:57t			17:40t		17:31s
12/13/2018 Th	17:42et	22:20s			23:21s		
12/14/2018 F	5:53mt		5:30r	3:29r		6:10r	
12/14/2018 F	7:21r		10:20t	8:46t		10:45t	8:32r
12/14/2018 F	11:48t	12:08r	15:09s	14:04s	11:56r	15:21s	13:00t
12/14/2018 F	16:15s	17:40t			17:38t		17:28s
12/14/2018 F	17:43et	23:20s			23:21s		
12/15/2018 Sat	5:54mt	4:49FQ	5:31r	3:29r		6:07r	
12/15/2018 Sat	7:21r		10:20t	8:46t		10:42t	8:29r
12/15/2018 Sat	11:48t	12:34r	15:07s	14:02s	11:53r	15:18s	12:57t
12/15/2018 Sat	16:15s				17:36t		17:25s
12/15/2018 Sat	17:43et	18:23t			23:21s		
12/16/2018 Sun	5:55mt	0:21s	5:33r	3:29r		6:04r	
12/16/2018 Sun	7:22r		10:20t	8:45t		10:39t	8:25r
12/16/2018 Sun	11:49t	12:59r	15:06s	14:01s	11:50r	15:15s	12:53t
12/16/2018 Sun	16:16s				17:35t		17:21s
12/16/2018 Sun	17:43et	19:07t			23:20s		
12/17/2018 M	5:55mt	1:24s	5:35r	3:29r		6:01r	
12/17/2018 M	7:23r		10:21t	8:44t	11:48r	10:36t	8:22r
12/17/2018 M	11:49t	13:25r	15:05s	13:59s		15:12s	12:50t
12/17/2018 M	16:16s				17:33t		17:18s
12/17/2018 M	17:43et	19:52t			23:20s		
12/18/2018 Tu	5:56mt	2:29s	5:37r	3:29r		5:58r	
12/18/2018 Tu	7:23r		10:21t	8:44t	11:45r	10:33t	8:18r
12/18/2018 Tu	11:50t	13:52r	15:05s	13:58s		15:08s	12:46t
12/18/2018 Tu	16:16s				17:32t		17:14s
12/18/2018 Tu	17:44et	20:39t			23:19s		
12/19/2018 W	5:56mt	3:37s	5:40r	3:29r		5:55r	
12/19/2018 W	7:24r		10:22t	8:43t	11:42r	10:30t	8:15r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/19/2018 W	11:50t	14:24r	15:04s	13:56s		15:05s	12:43t
12/19/2018 W	16:17s				17:30t		17:11s
12/19/2018 W	17:44et	21:30t			23:19s		
12/20/2018 Th	5:57mt	4:47s	5:42r	3:30r		5:53r	
12/20/2018 Th	7:25r		10:23t	8:42t	11:40r	10:27t	8:11r
12/20/2018 Th	11:51t	15:01r	15:04s	13:55s		15:02s	12:39t
12/20/2018 Th	16:17s				17:29t		17:08s
12/20/2018 Th	17:45et	22:25t			23:18s		
12/21/2018 F	5:58mt	5:59s	5:45r	3:30r		5:50r	
12/21/2018 F	7:25r		10:25t	8:42t	11:37r	10:24t	8:08r
12/21/2018 F	11:51t		15:04s	13:54s		14:59s	12:36t
12/21/2018 F	15:23DS	15:45r					
12/21/2018 F	16:18s				17:27t		17:04s
12/21/2018 F	17:45et	23:24t			23:18s		
12/22/2018 Sat	5:58mt	7:09s	5:48r	3:31r		5:47r	
12/22/2018 Sat	7:26r	10:49FM	10:26t	8:42t	11:34r	10:21t	8:04r
12/22/2018 Sat	11:52t		15:04s	13:52s		14:56s	12:33t
12/22/2018 Sat	16:18s	16:38r			17:26t		17:01s
12/22/2018 Sat	17:46et				23:18s		
12/23/2018 Sun	5:58mt	0:26t	5:51r	3:31r		5:44r	
12/23/2018 Sun	7:26r	8:14s	10:28t	8:41t	11:32r	10:18t	8:01r
12/23/2018 Sun	11:52t		15:04s	13:51s		14:52s	12:29t
12/23/2018 Sun	16:19s	17:41r			17:24t		16:57s
12/23/2018 Sun	17:46et				23:17s		
12/24/2018 M	5:59mt	1:28t	5:54r	3:32r		5:41r	
12/24/2018 M	7:26r	9:11s	10:30t	8:41t	11:29r	10:15t	7:57r
12/24/2018 M	11:53t		15:04s	13:50s		14:49s	12:26t
12/24/2018 M	16:19s				17:23t		16:54s
12/24/2018 M	17:47et	18:51r			23:17s		
12/25/2018 Tu	5:59mt	2:30t	5:58r	3:32r		5:38r	
12/25/2018 Tu	7:27r	10:00s	10:31t	8:41t	11:26r	10:12t	7:54r
12/25/2018 Tu	11:53t		15:05s	13:48s		14:46s	12:22t
12/25/2018 Tu	16:20s				17:21t		16:51s
12/25/2018 Tu	17:47et	20:06r			23:16s		
12/26/2018 W	6:00mt	3:28t	6:01r	3:33r		5:35r	
12/26/2018 W	7:27r	10:41s	10:33t	8:40t	11:24r	10:09t	7:51r
12/26/2018 W	11:54t		15:05s	13:47s		14:43s	12:19t
12/26/2018 W	16:21s				17:20t		16:47s
12/26/2018 W	17:48et	21:20r			23:16s		
12/27/2018 Th	6:00mt	4:23t	6:04r	3:34r		5:33r	
12/27/2018 Th	7:27r	11:15s	10:35t	8:40t	11:21r	10:06t	7:47r
12/27/2018 Th	11:54t		15:06s	13:46s		14:40s	12:15t
12/27/2018 Th	16:21s				17:18t		16:44s
12/27/2018 Th	17:49et	22:34r			23:16s		
12/28/2018 F	6:00mt	5:15t	6:08r	3:35r		5:30r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/28/2018 F	7:28r	11:46s	10:38t	8:40t	11:19r	10:03t	7:44r
12/28/2018 F	11:55t		15:07s	13:45s		14:37s	12:12t
12/28/2018 F	16:22s				17:17t		16:41s
12/28/2018 F	17:49et	23:45r			23:15s		
12/29/2018 Sat	6:01mt	2:34LQ		3:35r		5:27r	
12/29/2018 Sat	7:28r	6:05t	6:11r	8:40t		10:00t	7:40r
12/29/2018 Sat	11:55t	12:14s	10:40t	13:44s	11:16r	14:33s	12:09t
12/29/2018 Sat	16:23s		15:08s		17:15t		16:37s
12/29/2018 Sat	17:50et				23:15s		
12/30/2018 Sun	6:01mt	0:54r	6:14r	3:36r		5:24r	
12/30/2018 Sun	7:28r	6:53t	10:42t	8:40t	11:13r	9:57t	7:37r
12/30/2018 Sun	11:56t	12:42s	15:09s	13:43s		14:30s	12:05t
12/30/2018 Sun	16:24s				17:14t		16:34s
12/30/2018 Sun	17:51et				23:14s		
12/31/2018 M	6:01mt	2:01r	6:18r	3:37r		5:21r	
12/31/2018 M	7:28r	7:40t	10:44t	8:40t	11:11r	9:54t	7:33r
12/31/2018 M	11:56t	13:10s	15:11s	13:42s		14:27s	12:02t
12/31/2018 M	16:25s				17:12t		16:30s
12/31/2018 M	17:52et				23:14s		
01/01/2019 Tu	6:01mt	3:07r	6:21r	3:38r		5:18r	
01/01/2019 Tu	7:28r	8:27t	10:47t	8:40t	11:08r	9:51t	7:30r
01/01/2019 Tu	11:57t	13:41s	15:12s	13:41s		14:24s	11:58t
01/01/2019 Tu	16:25s				17:10t		16:27s
01/01/2019 Tu	17:52et				23:14s		
01/02/2019 W	6:01mt	4:12r	6:24r	3:39r		5:15r	7:26r
01/02/2019 W	7:28r	9:16t	10:49t	8:40t	11:05r	9:48t	11:55t
01/02/2019 W	11:57t	14:14s	15:14s	13:40s		14:21s	16:24s
01/02/2019 W	16:26s				17:09t		
01/02/2019 W	17:53et				23:13s		
01/03/2019 Th	6:01mt	5:14r	6:28r	3:40r		5:12r	7:23r
01/03/2019 Th	7:28r	10:05t	10:52t	8:40t	11:03r	9:45t	11:52t
01/03/2019 Th	11:58t	14:52s	15:16s	13:39s		14:18s	16:20s
01/03/2019 Th	16:27s				17:07t		
01/03/2019 Th	17:54et				23:13s		
01/04/2019 F	6:01mt	6:12r	6:31r	3:42r		5:09r	7:19r
01/04/2019 F	7:28r	10:55t	10:54t	8:40t	11:00r	9:42t	11:48t
01/04/2019 F	11:58t	15:35s	15:17s	13:38s		14:14s	16:17s
01/04/2019 F	16:28s				17:06t		
01/04/2019 F	17:55et				23:12s		
01/05/2019 Sat	6:02mt	7:06r	6:34r	3:43r		5:06r	7:16r
01/05/2019 Sat	7:28r	11:45t	10:57t	8:40t	10:58r	9:39t	11:45t
01/05/2019 Sat	11:59t	16:24s	15:20s	13:37s		14:11s	16:13s
01/05/2019 Sat	16:29s				17:04t		
01/05/2019 Sat	17:56et	18:28NM			23:12s		
01/06/2019 Sun	6:02mt		6:37r	3:44r		5:03r	7:12r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/06/2019 Sun	7:28r	7:54r	11:00t	8:40t	10:55r	9:36t	11:41t
01/06/2019 Sun	11:59t	12:34t	15:22s	13:36s		14:08s	16:10s
01/06/2019 Sun	16:30s	17:16s			17:03t		
01/06/2019 Sun	17:57et				23:12s		
01/07/2019 M	6:01mt		6:40r	3:45r		5:01r	7:09r
01/07/2019 M	7:28r	8:36r	11:02t	8:41t	10:52r	9:33t	11:38t
01/07/2019 M	11:59t	13:22t	15:24s	13:36s		14:05s	16:07s
01/07/2019 M	16:31s				17:01t		
01/07/2019 M	17:58et	18:13s			23:11s		
01/08/2019 Tu	6:01mt		6:43r	3:46r		4:58r	7:05r
01/08/2019 Tu	7:28r	9:12r	11:05t	8:41t	10:50r	9:30t	11:34t
01/08/2019 Tu	12:00t	14:09t	15:27s	13:35s		14:02s	16:03s
01/08/2019 Tu	16:32s				17:00t		
01/08/2019 Tu	17:59et	19:11s			23:11s		
01/09/2019 W	6:01mt		6:46r	3:48r		4:55r	7:02r
01/09/2019 W	7:27r	9:43r	11:08t	8:41t	10:47r	9:27t	11:31t
01/09/2019 W	12:00t	14:53t	15:29s	13:34s		13:58s	16:00s
01/09/2019 W	16:34s				16:58t		
01/09/2019 W	18:00et	20:10s			23:10s		
01/10/2019 Th	6:01mt		6:49r	3:49r		4:52r	6:58r
01/10/2019 Th	7:27r	10:11r	11:11t	8:42t	10:44r	9:23t	11:28t
01/10/2019 Th	12:01t	15:37t	15:32s	13:34s		13:55s	15:57s
01/10/2019 Th	16:35s				16:57t		
01/10/2019 Th	18:01et	21:10s			23:10s		
01/11/2019 F	6:01mt		6:52r	3:50r		4:49r	6:55r
01/11/2019 F	7:27r	10:37r	11:13t	8:42t	10:42r	9:20t	11:24t
01/11/2019 F	12:01t	16:19t	15:35s	13:33s		13:52s	15:53s
01/11/2019 F	16:36s				16:56t		
01/11/2019 F	18:02et	22:10s			23:10s		
01/12/2019 Sat	6:01mt		6:55r	3:51r		4:46r	6:52r
01/12/2019 Sat	7:26r	11:02r	11:16t	8:42t	10:39r	9:17t	11:21t
01/12/2019 Sat	12:02t		15:38s	13:33s		13:49s	15:50s
01/12/2019 Sat	16:37s	17:02t			16:54t		
01/12/2019 Sat	18:03et	23:10s			23:09s		
01/13/2019 Sun	6:00mt		6:57r	3:53r		4:43r	6:48r
01/13/2019 Sun	7:26r	11:26r	11:19t	8:43t	10:37r	9:14t	11:17t
01/13/2019 Sun	12:02t		15:41s	13:32s		13:46s	15:46s
01/13/2019 Sun	16:38s	17:45t			16:53t		
01/13/2019 Sun	18:04et	23:46FQ			23:09s		
01/14/2019 M	6:00mt	0:13s	7:00r	3:54r		4:40r	6:45r
01/14/2019 M	7:26r	11:52r	11:22t	8:43t	10:34r	9:11t	11:14t
01/14/2019 M	12:02t		15:45s	13:32s		13:42s	15:43s
01/14/2019 M	16:39s				16:51t		
01/14/2019 M	18:05et	18:29t			23:09s		
01/15/2019 Tu	6:00mt	1:17s	7:02r	3:56r		4:37r	6:41r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/15/2019 Tu	7:25r		11:25t	8:44t	10:32r	9:08t	11:10t
01/15/2019 Tu	12:03t	12:21r	15:48s	13:31s		13:39s	15:40s
01/15/2019 Tu	16:41s				16:50t		
01/15/2019 Tu	18:06et	19:17t			23:08s		
01/16/2019 W	5:59mt	2:24s	7:05r	3:57r		4:34r	6:38r
01/16/2019 W	7:24r		11:28t	8:44t	10:29r	9:05t	11:07t
01/16/2019 W	12:03t	12:53r	15:52s	13:31s		13:36s	15:36s
01/16/2019 W	16:42s				16:48t		
01/16/2019 W	18:07et	20:08t			23:08s		
01/17/2019 Th	5:59mt	3:33s	7:07r	3:58r		4:31r	6:34r
01/17/2019 Th	7:24r		11:31t	8:45t	10:26r	9:02t	11:04t
01/17/2019 Th	12:03t	13:32r	15:55s	13:31s		13:33s	15:33s
01/17/2019 Th	16:43s				16:47t		
01/17/2019 Th	18:08et	21:04t			23:07s		
01/18/2019 F	5:59mt	4:43s	7:09r	4:00r		4:28r	6:31r
01/18/2019 F	7:23r		11:34t	8:45t	10:24r	8:59t	11:00t
01/18/2019 F	12:04t	14:20r	15:59s	13:31s		13:30s	15:30s
01/18/2019 F	16:44s				16:45t		
01/18/2019 F	18:09et	22:03t			23:07s		
01/19/2019 Sat	5:58mt	5:51s	7:11r	4:01r		4:25r	6:27r
01/19/2019 Sat	7:23r		11:37t	8:46t	10:21r	8:56t	10:57t
01/19/2019 Sat	12:04t	15:17r	16:03s	13:30s	16:44t	13:26s	15:26s
01/19/2019 Sat	16:46s						
01/19/2019 Sat	18:10et	23:06t			23:07s		
01/20/2019 Sun	5:58mt	6:53s	7:13r	4:02r		4:22r	6:24r
01/20/2019 Sun	7:22r		11:40t	8:46t	10:19r	8:52t	10:53t
01/20/2019 Sun	12:04t	16:25r	16:07s	13:30s	16:42t	13:23s	15:23s
01/20/2019 Sun	16:47s						
01/20/2019 Sun	18:11et	22:16FM			23:06s		
01/21/2019 M	5:57mt	0:09t	7:15r	4:04r		4:19r	6:20r
01/21/2019 M	7:21r	7:48s	11:43t	8:47t	10:16r	8:49t	10:50t
01/21/2019 M	12:05t		16:12s	13:30s	16:41t	13:20s	15:19s
01/21/2019 M	16:48s	17:39r					
01/21/2019 M	18:12et				23:06s		
01/22/2019 Tu	5:56mt	1:11t	7:17r	4:05r		4:16r	6:17r
01/22/2019 Tu	7:20r	8:34s	11:46t	8:48t	10:14r	8:46t	10:46t
01/22/2019 Tu	12:05t		16:16s	13:30s	16:39t	13:17s	15:16s
01/22/2019 Tu	16:50s						
01/22/2019 Tu	18:14et	18:57r			23:06s		
01/23/2019 W	5:56mt	2:10t	7:18r	4:07r		4:13r	6:13r
01/23/2019 W	7:20r	9:12s	11:49t	8:49t	10:11r	8:43t	10:43t
01/23/2019 W	12:05t		16:21s	13:30s	16:38t	13:13s	15:13s
01/23/2019 W	16:51s						
01/23/2019 W	18:15et	20:14r			23:05s		
01/24/2019 Th	5:55mt	3:06t		4:08r		4:10r	6:10r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/24/2019 Th	7:19r	9:46s	7:20r	8:49t	10:08r	8:40t	10:39t
01/24/2019 Th	12:05t		11:52t	13:30s		13:10s	15:09s
01/24/2019 Th	16:52s		16:25s		16:36t		
01/24/2019 Th	18:16et	21:29r			23:05s		
01/25/2019 F	5:54mt	3:58t		4:09r		4:07r	6:06r
01/25/2019 F	7:18r	10:16s	7:21r	8:50t	10:06r	8:37t	10:36t
01/25/2019 F	12:06t		11:55t	13:30s		13:07s	15:06s
01/25/2019 F	16:54s		16:30s		16:35t		
01/25/2019 F	18:17et	22:42r			23:05s		
01/26/2019 Sat	5:54mt	4:48t		4:11r		4:03r	6:03r
01/26/2019 Sat	7:17r	10:45s	7:23r	8:51t	10:03r	8:34t	10:33t
01/26/2019 Sat	12:06t		11:58t	13:31s	16:34t	13:04s	15:02s
01/26/2019 Sat	16:55s		16:35s				
01/26/2019 Sat	18:18et	23:52r			23:04s		
01/27/2019 Sun	5:53mt	5:37t		4:12r		4:00r	5:59r
01/27/2019 Sun	7:16r	11:14s	7:24r	8:52t	10:01r	8:30t	10:29t
01/27/2019 Sun	12:06t	14:10LQ	12:02t	13:31s	16:32t	13:01s	14:59s
01/27/2019 Sun	16:56s		16:40s				
01/27/2019 Sun	18:19et				23:04s		
01/28/2019 M	5:52mt	0:59r		4:13r		3:57r	5:56r
01/28/2019 M	7:15r	6:25t	7:25r	8:52t	9:58r	8:27t	10:26t
01/28/2019 M	12:06t	11:44s	12:05t	13:31s	16:31t	12:57s	14:56s
01/28/2019 M	16:58s		16:45s				
01/28/2019 M	18:21et				23:04s		
01/29/2019 Tu	5:51mt	2:05r		4:15r		3:54r	5:52r
01/29/2019 Tu	7:14r	7:14t	7:26r	8:53t	9:56r	8:24t	10:22t
01/29/2019 Tu	12:06t	12:16s	12:08t	13:31s	16:29t	12:54s	14:52s
01/29/2019 Tu	16:59s		16:50s				
01/29/2019 Tu	18:22et				23:03s		
01/30/2019 W	5:50mt	3:07r		4:16r		3:51r	5:49r
01/30/2019 W	7:13r	8:02t	7:27r	8:54t	9:53r	8:21t	10:19t
01/30/2019 W	12:06t	12:53s	12:11t	13:32s	16:28t	12:51s	14:49s
01/30/2019 W	17:00s		16:55s				
01/30/2019 W	18:23et				23:03s		
01/31/2019 Th	5:50mt	4:07r		4:17r		3:48r	5:45r
01/31/2019 Th	7:12r	8:52t	7:28r	8:55t	9:51r	8:18t	10:15t
01/31/2019 Th	12:07t	13:34s	12:14t	13:32s	16:26t	12:47s	14:45s
01/31/2019 Th	17:02s		17:01s				
01/31/2019 Th	18:24et				23:03s		
02/01/2019 F	5:49mt	5:02r		4:19r		3:45r	5:42r
02/01/2019 F	7:11r	9:41t	7:29r	8:56t	9:48r	8:15t	10:12t
02/01/2019 F	12:07t	14:20s	12:17t	13:33s	16:25t	12:44s	14:42s
02/01/2019 F	17:03s		17:06s				
02/01/2019 F	18:26et				23:02s		
02/02/2019 Sat	5:48mt	5:51r		4:20r		3:42r	5:38r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/02/2019 Sat	7:10r	10:30t	7:29r	8:57t	9:46r	8:11t	10:08t
02/02/2019 Sat	12:07t	15:11s	12:20t	13:33s	16:24t	12:41s	14:39s
02/02/2019 Sat	17:05s		17:12s				
02/02/2019 Sat	18:27et				23:02s		
02/03/2019 Sun	5:47mt	6:35r		4:21r		3:39r	5:35r
02/03/2019 Sun	7:09r	11:19t	7:30r	8:58t	9:43r	8:08t	10:05t
02/03/2019 Sun	12:07t	16:06s	12:23t	13:34s	16:22t	12:38s	14:35s
02/03/2019 Sun	17:06s		17:17s				
02/03/2019 Sun	18:28et				23:01s		
02/04/2019 M	5:46mt			4:22r		3:36r	5:31r
02/04/2019 M	7:07r	7:12r	7:30r	8:59t	9:41r	8:05t	10:01t
02/04/2019 M	12:07t	12:06t	12:26t	13:35s		12:34s	
02/04/2019 M		14:04NM			16:21t		14:32s
02/04/2019 M	17:07s	17:03s	17:23s				
02/04/2019 M	18:29et				23:01s		
02/05/2019 Tu	5:45mt			4:24r		3:32r	5:28r
02/05/2019 Tu	7:06r	7:45r	7:31r	9:00t	9:38r	8:02t	9:58t
02/05/2019 Tu	12:07t	12:51t	12:29t	13:36s	16:19t	12:31s	14:28s
02/05/2019 Tu	17:09s	18:03s	17:29s				
02/05/2019 Tu	18:30et				23:01s		
02/06/2019 W	5:44mt			4:25r		3:29r	5:24r
02/06/2019 W	7:05r	8:15r	7:31r	9:01t	9:36r	7:59t	9:54t
02/06/2019 W	12:07t	13:35t	12:32t	13:36s	16:18t	12:28s	14:25s
02/06/2019 W	17:10s		17:35s				
02/06/2019 W	18:32et	19:02s			23:00s		
02/07/2019 Th	5:42mt			4:26r		3:26r	5:20r
02/07/2019 Th	7:04r	8:41r	7:31r	9:02t	9:33r	7:55t	9:51t
02/07/2019 Th	12:07t	14:18t	12:35t	13:37s	16:16t	12:24s	14:21s
02/07/2019 Th	17:11s		17:40s				
02/07/2019 Th	18:33et	20:02s			23:00s		
02/08/2019 F	5:41mt			4:27r		3:23r	5:17r
02/08/2019 F	7:02r	9:06r	7:31r	9:03t	9:31r	7:52t	9:47t
02/08/2019 F	12:07t	15:00t	12:38t	13:38s	16:15t	12:21s	14:18s
02/08/2019 F	17:13s		17:46s				
02/08/2019 F	18:34et	21:02s			23:00s		
02/09/2019 Sat	5:40mt			4:28r		3:20r	5:13r
02/09/2019 Sat	7:01r	9:30r	7:31r	9:04t	9:28r	7:49t	9:44t
02/09/2019 Sat	12:07t	15:42t	12:41t	13:39s	16:14t	12:18s	14:15s
02/09/2019 Sat	17:14s		17:52s				
02/09/2019 Sat	18:35et	22:03s			22:59s		
02/10/2019 Sun	5:39mt			4:29r		3:16r	5:10r
02/10/2019 Sun	7:00r	9:55r	7:31r	9:05t	9:26r	7:46t	9:40t
02/10/2019 Sun	12:07t	16:25t	12:44t	13:40s	16:12t	12:15s	14:11s
02/10/2019 Sun	17:16s		17:58s				
02/10/2019 Sun	18:37et	23:06s			22:59s		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/11/2019 M	5:38mt			4:30r		3:13r	5:06r
02/11/2019 M	6:58r	10:21r	7:31r	9:06t	9:24r	7:42t	9:37t
02/11/2019 M	12:07t	17:10t	12:47t	13:41s	16:11t	12:11s	14:08s
02/11/2019 M	17:17s		18:04s				
02/11/2019 M	18:38et				22:59s		
02/12/2019 Tu	5:36mt	0:10s		4:31r		3:10r	5:03r
02/12/2019 Tu	6:57r	10:51r	7:30r	9:07t	9:21r	7:39t	9:33t
02/12/2019 Tu	12:07t	15:26FQ	12:50t	13:42s	16:10t	12:08s	14:04s
02/12/2019 Tu	17:18s	17:58t	18:10s				
02/12/2019 Tu	18:39et				22:58s		
02/13/2019 W	5:35mt	1:16s		4:32r		3:07r	4:59r
02/13/2019 W	6:56r	11:26r	7:30r	9:08t	9:19r	7:36t	9:30t
02/13/2019 W	12:07t		12:52t	13:44s	16:08t	12:05s	14:01s
02/13/2019 W	17:20s		18:16s				
02/13/2019 W	18:40et	18:50t			22:58s		
02/14/2019 Th	5:34mt	2:23s		4:33r		3:04r	4:56r
02/14/2019 Th	6:54r		7:29r	9:09t	9:16r	7:32t	9:26t
02/14/2019 Th	12:07t	12:07r	12:55t	13:45s	16:07t	12:01s	13:57s
02/14/2019 Th	17:21s		18:22s				
02/14/2019 Th	18:42et	19:46t			22:58s		
02/15/2019 F	5:32mt	3:30s		4:34r		3:00r	4:52r
02/15/2019 F	6:53r		7:29r	9:10t	9:14r	7:29t	9:23t
02/15/2019 F	12:07t	12:58r	12:57t	13:46s	16:05t	11:58s	13:54s
02/15/2019 F	17:23s		18:27s				
02/15/2019 F	18:43et	20:45t			22:57s		
02/16/2019 Sat	5:31mt	4:33s		4:34r		2:57r	4:48r
02/16/2019 Sat	6:51r		7:28r	9:11t	9:12r	7:26t	9:19t
02/16/2019 Sat	12:07t	13:59r	13:00t	13:47s	16:04t	11:54s	13:50s
02/16/2019 Sat	17:24s		18:33s				
02/16/2019 Sat	18:44et	21:47t			22:57s		
02/17/2019 Sun	5:30mt	5:31s		4:35r		2:54r	4:45r
02/17/2019 Sun	6:50r		7:27r	9:12t	9:09r	7:22t	9:16t
02/17/2019 Sun	12:07t	15:09r	13:02t	13:49s	16:03t	11:51s	13:47s
02/17/2019 Sun	17:25s		18:39s				
02/17/2019 Sun	18:45et	22:49t			22:57s		
02/18/2019 M	5:28mt	6:21s		4:36r		2:51r	4:41r
02/18/2019 M	6:48r		7:26r	9:13t	9:07r	7:19t	9:12t
02/18/2019 M	12:07t	16:25r	13:04t	13:50s	16:01t	11:48s	13:44s
02/18/2019 M	17:27s		18:44s				
02/18/2019 M	18:47et	23:50t			22:56s		
02/19/2019 Tu	5:27mt			4:36r		2:47r	4:38r
02/19/2019 Tu	6:47r	7:03s	7:24r			7:16t	
02/19/2019 Tu	12:07t	8:54FM	13:06t	9:14t	9:04r	11:44s	9:09t
02/19/2019 Tu	17:28s	17:44r		13:52s	16:00t		13:40s
02/19/2019 Tu	18:48et		18:49s		22:56s		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/20/2019 W	5:25mt	0:48t		4:37r		2:44r	4:34r
02/20/2019 W	6:45r	7:40s	7:23r	9:15t	9:02r	7:12t	9:05t
02/20/2019 W	12:07t		13:07t	13:53s	15:59t	11:41s	13:37s
02/20/2019 W	17:29s						
02/20/2019 W	18:49et	19:03r	18:54s		22:56s		
02/21/2019 Th	5:24mt	1:44t		4:38r		2:41r	4:31r
02/21/2019 Th	6:44r	8:13s	7:21r	9:16t	9:00r	7:09t	9:02t
02/21/2019 Th	12:07t		13:09t	13:55s	15:57t	11:38s	13:33s
02/21/2019 Th	17:31s						
02/21/2019 Th	18:50et	20:19r	18:58s		22:55s		
02/22/2019 F	5:22mt	2:37t		4:38r		2:37r	4:27r
02/22/2019 F	6:42r	8:43s	7:19r	9:17t	8:57r	7:06t	8:58t
02/22/2019 F	12:07t		13:10t	13:56s	15:56t	11:34s	13:30s
02/22/2019 F	17:32s						
02/22/2019 F	18:52et	21:33r	19:02s		22:55s		
02/23/2019 Sat	5:21mt	3:28t		4:39r		2:34r	4:23r
02/23/2019 Sat	6:40r	9:13s	7:17r	9:18t	8:55r	7:02t	8:55t
02/23/2019 Sat	12:07t		13:11t	13:58s	15:55t	11:31s	13:26s
02/23/2019 Sat	17:33s						
02/23/2019 Sat	18:53et	22:45r	19:06s		22:55s		
02/24/2019 Sun	5:19mt	4:18t		4:39r		2:31r	4:20r
02/24/2019 Sun	6:39r	9:43s	7:15r	9:19t	8:53r	6:59t	8:51t
02/24/2019 Sun	12:06t		13:11t	14:00s	15:53t	11:27s	13:23s
02/24/2019 Sun	17:35s						
02/24/2019 Sun	18:54et	23:53r	19:09s		22:54s		
02/25/2019 M	5:18mt	5:08t		4:39r		2:27r	4:16r
02/25/2019 M	6:37r	10:16s	7:12r	9:20t	8:50r	6:56t	8:48t
02/25/2019 M	12:06t		13:11t	14:01s	15:52t	11:24s	13:19s
02/25/2019 M	17:36s						
02/25/2019 M	18:55et		19:11s		22:54s		
02/26/2019 Tu		0:59r				2:24r	4:13r
02/26/2019 Tu	5:16mt	4:28LQ		4:40r			
02/26/2019 Tu	6:35r	5:58t	7:09r	9:21t	8:48r	6:52t	8:44t
02/26/2019 Tu	12:06t	10:52s	13:11t	14:03s	15:51t	11:20s	13:16s
02/26/2019 Tu	17:37s						
02/26/2019 Tu	18:57et		19:13s		22:54s		
02/27/2019 W	5:15mt	2:01r		4:40r		2:21r	4:09r
02/27/2019 W	6:34r	6:48t	7:06r	9:22t	8:46r	6:49t	8:41t
02/27/2019 W	12:06t	11:32s	13:10t	14:05s	15:49t	11:17s	13:12s
02/27/2019 W	17:39s						
02/27/2019 W	18:58et		19:15s		22:53s		
02/28/2019 Th	5:13mt	2:58r		4:40r		2:17r	4:05r
02/28/2019 Th	6:32r	7:38t	7:03r	9:23t	8:43r	6:45t	8:37t
02/28/2019 Th	12:06t	12:16s	13:09t	14:07s	15:48t	11:14s	13:09s
02/28/2019 Th	17:40s						

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/28/2019 Th	18:59et		19:15s		22:53s		
03/01/2019 F	5:11mt	3:49r		4:41r		2:14r	4:02r
03/01/2019 F	6:30r	8:27t	6:59r	9:24t	8:41r	6:42t	8:33t
03/01/2019 F	12:06t	13:06s	13:07t	14:09s	15:47t	11:10s	13:05s
03/01/2019 F	17:41s						
03/01/2019 F	19:01et		19:15s		22:53s		
03/02/2019 Sat	5:10mt	4:34r		4:41r		2:10r	3:58r
03/02/2019 Sat	6:29r	9:16t	6:55r	9:25t	8:39r	6:39t	8:30t
03/02/2019 Sat	12:05t	14:00s	13:04t	14:11s	15:45t	11:07s	13:02s
03/02/2019 Sat	17:43s						
03/02/2019 Sat	19:02et		19:14s		22:52s		
03/03/2019 Sun	5:08mt	5:13r		4:41r		2:07r	3:55r
03/03/2019 Sun	6:27r	10:03t	6:51r	9:26t	8:37r	6:35t	8:26t
03/03/2019 Sun	12:05t	14:57s	13:01t	14:12s	15:44t	11:03s	12:58s
03/03/2019 Sun	17:44s						
03/03/2019 Sun	19:03et		19:12s		22:52s		
03/04/2019 M	5:06mt	5:48r		4:41r		2:04r	3:51r
03/04/2019 M	6:25r	10:49t	6:47r	9:27t	8:34r	6:32t	8:23t
03/04/2019 M	12:05t	15:55s	12:58t	14:14s	15:43t	11:00s	12:55s
03/04/2019 M	17:45s						
03/04/2019 M	19:04et		19:10s		22:52s		
03/05/2019 Tu	5:05mt	6:18r		4:41r		2:00r	3:47r
03/05/2019 Tu	6:24r		6:42r	9:28t	8:32r	6:28t	8:19t
03/05/2019 Tu	12:05t	11:33t	12:54t	14:16s	15:41t	10:56s	12:51s
03/05/2019 Tu	17:47s	16:55s					
03/05/2019 Tu	19:06et		19:06s		22:51s		
03/06/2019 W	5:03mt			4:41r		1:57r	3:44r
03/06/2019 W	6:22r	6:45r	6:37r		8:30r	6:25t	8:16t
03/06/2019 W	12:04t	9:04NM		9:29t		10:53s	
03/06/2019 W	17:48s	12:16t	12:50t	14:18s	15:40t		12:48s
03/06/2019 W	19:07et	17:55s	19:02s		22:51s		
03/07/2019 Th	5:01mt			4:41r		1:53r	3:40r
03/07/2019 Th	6:20r	7:10r	6:32r	9:30t	8:28r	6:21t	8:12t
03/07/2019 Th	12:04t	12:59t	12:44t	14:20s	15:39t	10:49s	12:44s
03/07/2019 Th	17:49s	18:56s	18:57s				
03/07/2019 Th	19:08et				22:51s		
03/08/2019 F	4:59mt			4:41r		1:50r	3:36r
03/08/2019 F	6:18r	7:34r	6:27r	9:31t	8:25r	6:18t	8:08t
03/08/2019 F	12:04t	13:41t	12:39t	14:23s	15:38t	10:46s	12:40s
03/08/2019 F	17:50s		18:51s				
03/08/2019 F	19:10et	19:57s			22:50s		
03/09/2019 Sat	4:58mt			4:40r		1:46r	3:33r
03/09/2019 Sat	6:17r	7:59r	6:21r	9:32t	8:23r	6:14t	8:05t
03/09/2019 Sat	12:04t	14:24t	12:33t	14:25s	15:36t	10:42s	12:37s
03/09/2019 Sat	17:52s		18:45s				

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/09/2019 Sat	19:11et	20:59s			22:50s		
03/10/2019 Sun	4:56mt			4:40r		1:43r	3:29r
03/10/2019 Sun	6:15r	8:25r	6:16r	9:33t	8:21r	6:11t	8:01t
03/10/2019 Sun	12:03t	15:08t	12:27t	14:27s	15:35t	10:38s	12:33s
03/10/2019 Sun	17:53s		18:37s				
03/10/2019 Sun	19:12et	22:02s			22:50s		
03/11/2019 M	4:54mt			4:40r		1:39r	3:25r
03/11/2019 M	6:13r	8:53r	6:10r	9:34t	8:19r	6:07t	7:58t
03/11/2019 M	12:03t	15:55t	12:20t	14:29s	15:34t	10:35s	12:30s
03/11/2019 M	17:54s		18:30s				
03/11/2019 M	19:13et	23:07s			22:49s		
03/12/2019 Tu	4:52mt			4:40r		1:36r	3:22r
03/12/2019 Tu	6:11r	9:25r	6:04r	9:35t	8:17r	6:04t	7:54t
03/12/2019 Tu	12:03t	16:44t	12:13t	14:31s	15:33t	10:31s	12:26s
03/12/2019 Tu	17:55s		18:21s				
03/12/2019 Tu	19:15et				22:49s		
03/13/2019 W	4:50mt	0:13s	5:59r	4:39r		1:32r	3:18r
03/13/2019 W	6:09r	10:03r		9:36t	8:15r	6:00t	7:50t
03/13/2019 W	12:03t	17:37t	12:06t	14:33s	15:31t	10:28s	12:23s
03/13/2019 W	17:57s		18:13s				
03/13/2019 W	19:16et				22:49s		
03/14/2019 Th		1:18s				1:29r	3:14r
03/14/2019 Th	4:48mt	3:27FQ	5:53r	4:39r		5:56t	
03/14/2019 Th	6:08r	10:48r	11:59t	9:37t	8:13r	10:24s	7:47t
03/14/2019 Th	12:02t			14:35s	15:30t		12:19s
03/14/2019 Th	17:58s	18:33t	18:04s				
03/14/2019 Th	19:17et				22:48s		
03/15/2019 F	4:47mt	2:21s	5:48r	4:39r		1:25r	3:11r
03/15/2019 F	6:06r			9:38t	8:10r	5:53t	7:43t
03/15/2019 F	12:02t	11:43r	11:52t	14:37s	15:29t	10:21s	12:15s
03/15/2019 F	17:59s		17:55s				
03/15/2019 F	19:19et	19:31t			22:48s		
03/16/2019 Sat	4:45mt	3:19s	5:42r	4:38r		1:21r	3:07r
03/16/2019 Sat	6:04r			9:39t	8:08r	5:49t	7:39t
03/16/2019 Sat	12:02t	12:46r	11:44t	14:40s	15:28t	10:17s	12:12s
03/16/2019 Sat	18:01s		17:46s				
03/16/2019 Sat	19:20et	20:31t			22:47s		
03/17/2019 Sun	4:43mt	4:10s	5:37r	4:38r		1:18r	3:03r
03/17/2019 Sun	6:02r			9:39t	8:06r	5:46t	7:36t
03/17/2019 Sun	12:02t	13:58r	11:37t	14:42s	15:26t	10:13s	12:08s
03/17/2019 Sun	18:02s		17:36s				
03/17/2019 Sun	19:21et	21:31t			22:47s		
03/18/2019 M	4:41mt	4:54s	5:32r	4:37r		1:14r	3:00r
03/18/2019 M	6:00r			9:40t	8:04r	5:42t	7:32t
03/18/2019 M	12:01t	15:14r	11:30t	14:44s	15:25t	10:10s	12:05s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/18/2019 M	18:03s		17:28s				
03/18/2019 M	19:23et	22:29t			22:47s		
03/19/2019 Tu	4:39mt	5:33s	5:27r	4:37r		1:11r	2:56r
03/19/2019 Tu	5:58r			9:41t	8:02r	5:38t	7:28t
03/19/2019 Tu	12:01t	16:32r	11:24t	14:46s	15:24t	10:06s	12:01s
03/19/2019 Tu	18:04s		17:19s				
03/19/2019 Tu	19:24et	23:26t			22:46s		
03/20/2019 W	4:37mt		5:23r	4:36r		1:07r	2:52r
03/20/2019 W	5:57r	6:07s		9:42t	8:00r	5:35t	7:25t
03/20/2019 W	12:01t		11:17t	14:49s		10:02s	11:57s
03/20/2019 W	14:58ME	17:50r	17:11s		15:23t		
03/20/2019 W	18:05s	18:43FM					
03/20/2019 W	19:25et				22:46s		
03/21/2019 Th	4:35mt	0:20t	5:19r	4:35r		1:03r	2:49r
03/21/2019 Th	5:55r	6:38s		9:43t	7:58r	5:31t	7:21t
03/21/2019 Th	12:00t		11:11t	14:51s	15:21t	9:59s	11:54s
03/21/2019 Th	18:07s	19:06r	17:03s				
03/21/2019 Th	19:27et				22:45s		
03/22/2019 F	4:33mt	1:13t	5:14r	4:35r		1:00r	2:45r
03/22/2019 F	5:53r	7:09s		9:44t	7:56r	5:27t	7:17t
03/22/2019 F	12:00t		11:05t	14:53s	15:20t	9:55s	11:50s
03/22/2019 F	18:08s		16:55s				
03/22/2019 F	19:28et	20:21r			22:45s		
03/23/2019 Sat	4:31mt	2:05t	5:11r	4:34r		0:56r	2:41r
03/23/2019 Sat	5:51r	7:39s		9:44t	7:54r	5:24t	7:14t
03/23/2019 Sat	12:00t		11:00t	14:55s	15:19t	9:51s	11:46s
03/23/2019 Sat	18:09s		16:48s				
03/23/2019 Sat	19:29et	21:34r			22:45s		
03/24/2019 Sun	4:29mt	2:57t	5:07r	4:33r		0:52r	2:37r
03/24/2019 Sun	5:49r	8:11s		9:45t	7:52r	5:20t	7:10t
03/24/2019 Sun	11:59t		10:55t	14:58s	15:18t	9:48s	11:43s
03/24/2019 Sun	18:10s		16:42s				
03/24/2019 Sun	19:31et	22:43r			22:44s		
03/25/2019 M	4:27mt	3:48t	5:04r	4:32r		0:49r	2:34r
03/25/2019 M	5:48r	8:47s			7:50r	5:16t	7:06t
03/25/2019 M	11:59t		10:50t	9:46t		9:44s	11:39s
03/25/2019 M	18:12s		16:36s	15:00s	15:17t		
03/25/2019 M	19:32et	23:49r			22:44s		
03/26/2019 Tu	4:25mt	4:40t	5:00r	4:32r		0:45r	2:30r
03/26/2019 Tu	5:46r	9:26s			7:48r	5:13t	7:03t
03/26/2019 Tu	11:59t		10:45t	9:47t		9:40s	11:35s
03/26/2019 Tu	18:13s		16:30s	15:02s	15:15t		
03/26/2019 Tu	19:34et				22:43s		
03/27/2019 W	4:23mt	0:50r	4:57r	4:31r		0:41r	2:26r
03/27/2019 W	5:44r	5:31t			7:46r	5:09t	6:59t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/27/2019 W	11:59t	10:10s	10:41t	9:47t		9:36s	11:32s
03/27/2019 W	18:14s		16:25s	15:05s	15:14t		
03/27/2019 W	19:35et	21:10LQ			22:43s		
03/28/2019 Th	4:21mt	1:44r	4:55r	4:30r		0:37r	2:23r
03/28/2019 Th	5:42r	6:22t			7:44r	5:05t	6:55t
03/28/2019 Th	11:58t	10:59s	10:38t	9:48t		9:33s	11:28s
03/28/2019 Th	18:15s		16:21s	15:07s	15:13t		
03/28/2019 Th	19:36et				22:43s		
03/29/2019 F	4:19mt	2:32r	4:52r	4:29r		0:34r	2:19r
03/29/2019 F	5:40r	7:11t			7:42r	5:01t	6:52t
03/29/2019 F	11:58t	11:52s	10:34t	9:49t		9:29s	11:24s
03/29/2019 F	18:17s		16:17s	15:09s	15:12t		
03/29/2019 F	19:38et				22:42s		
03/30/2019 Sat	4:17mt	3:14r	4:50r	4:28r		0:30r	2:15r
03/30/2019 Sat	5:38r	7:59t			7:40r	4:58t	6:48t
03/30/2019 Sat	11:58t	12:48s	10:31t	9:49t	15:11t	9:25s	11:21s
03/30/2019 Sat	18:18s		16:13s	15:11s			
03/30/2019 Sat	19:39et				22:42s		
03/31/2019 Sun	4:15mt	3:49r	4:47r	4:27r		0:26r	2:11r
03/31/2019 Sun	5:37r	8:45t			7:38r	4:54t	6:44t
03/31/2019 Sun	11:57t	13:47s	10:29t	9:50t	15:10t	9:21s	11:17s
03/31/2019 Sun	18:19s		16:10s	15:14s			
03/31/2019 Sun	19:41et				22:41s		
04/01/2019 M	4:13mt	4:21r	4:45r	4:26r		0:22r	2:07r
04/01/2019 M	5:35r				7:36r	4:50t	6:40t
04/01/2019 M	11:57t	9:30t	10:26t	9:51t		9:17s	11:13s
04/01/2019 M	18:20s	14:46s	16:07s	15:16s	15:08t		
04/01/2019 M	19:42et				22:41s		
04/02/2019 Tu	4:11mt		4:43r	4:25r		0:19r	2:04r
04/02/2019 Tu	5:33r	4:48r			7:35r	4:46t	6:37t
04/02/2019 Tu	11:57t	10:14t	10:24t	9:51t	15:07t	9:14s	11:10s
04/02/2019 Tu	18:21s	15:47s	16:05s	15:18s			
04/02/2019 Tu	19:43et				22:40s		
04/03/2019 W	4:09mt		4:41r	4:24r		0:15r	2:00r
04/03/2019 W	5:31r	5:14r			7:33r	4:42t	6:33t
04/03/2019 W	11:56t	10:56t	10:22t	9:52t	15:06t	9:10s	11:06s
04/03/2019 W	18:23s	16:47s	16:04s	15:21s			
04/03/2019 W	19:45et				22:40s		
04/04/2019 Th	4:07mt			4:23r		0:11r	1:56r
04/04/2019 Th	5:29r	5:39r	4:40r		7:31r	4:38t	6:29t
04/04/2019 Th	11:56t	11:39t	10:21t	9:53t	15:05t	9:06s	11:02s
04/04/2019 Th	18:24s	17:49s	16:02s	15:23s			
04/04/2019 Th	19:46et				22:39s		
04/05/2019 F	4:05mt	1:50NM		4:22r		0:07r	1:52r
04/05/2019 F	5:28r	6:03r	4:38r		7:29r	4:35t	6:25t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/05/2019 F	11:56t	12:22t	10:19t	9:53t	15:04t	9:02s	10:58s
04/05/2019 F	18:25s	18:51s	16:01s	15:25s			
04/05/2019 F	19:48et				22:39s		
04/06/2019 Sat	4:03mt			4:21r		0:03r	1:49r
04/06/2019 Sat	5:26r	6:28r	4:36r		7:27r	4:31t	6:22t
04/06/2019 Sat	11:56t	13:06t	10:18t	9:54t	15:03t	8:58s	10:55s
04/06/2019 Sat	18:26s		16:01s	15:28s			
04/06/2019 Sat	19:49et	19:55s			22:38s	23:59r	
04/07/2019 Sun	4:01mt		4:35r	4:20r		4:27t	1:45r
04/07/2019 Sun	5:24r	6:55r	10:17t	9:55t	7:26r	8:54s	6:18t
04/07/2019 Sun	11:55t	13:53t	16:00s	15:30s	15:01t		10:51s
04/07/2019 Sun	18:27s						
04/07/2019 Sun	19:51et	21:00s			22:38s	23:55r	
04/08/2019 M	3:59mt		4:33r	4:19r		4:23t	1:41r
04/08/2019 M	5:22r	7:26r	10:17t	9:55t	7:24r	8:50s	6:14t
04/08/2019 M	11:55t	14:42t	16:00s	15:32s	15:00t		10:47s
04/08/2019 M	18:29s						
04/08/2019 M	19:52et	22:06s			22:37s	23:52r	
04/09/2019 Tu	3:57mt		4:32r	4:18r		4:19t	1:37r
04/09/2019 Tu	5:20r	8:02r	10:16t	9:56t	7:22r	8:47s	6:10t
04/09/2019 Tu	11:55t	15:33t	16:01s	15:35s	14:59t		10:43s
04/09/2019 Tu	18:30s						
04/09/2019 Tu	19:54et	23:12s			22:37s	23:48r	
04/10/2019 W	3:55mt		4:31r	4:17r		4:15t	1:33r
04/10/2019 W	5:19r	8:45r	10:16t	9:56t	7:20r	8:43s	6:06t
04/10/2019 W	11:55t	16:28t	16:01s	15:37s	14:58t		10:40s
04/10/2019 W	18:31s						
04/10/2019 W	19:55et				22:36s	23:44r	
04/11/2019 Th	3:53mt	0:15s	4:29r	4:15r		4:11t	1:30r
04/11/2019 Th	5:17r	9:36r	10:15t	9:57t	7:19r	8:39s	6:03t
04/11/2019 Th	11:54t	17:25t	16:02s	15:39s	14:57t		10:36s
04/11/2019 Th	18:32s						
04/11/2019 Th	19:57et				22:35s	23:40r	
04/12/2019 F	3:51mt	1:14s	4:28r	4:14r		4:07t	1:26r
04/12/2019 F	5:15r		10:15t	9:57t	7:17r	8:35s	5:59t
04/12/2019 F	11:54t	10:35r					10:32s
04/12/2019 F		12:06FQ	16:03s	15:42s	14:56t		
04/12/2019 F	18:34s	18:23t					
04/12/2019 F	19:58et				22:35s	23:36r	
04/13/2019 Sat	3:49mt	2:06s	4:27r	4:13r		4:03t	1:22r
04/13/2019 Sat	5:14r		10:16t	9:58t	7:15r	8:31s	5:55t
04/13/2019 Sat	11:54t	11:42r	16:05s	15:44s	14:55t		10:28s
04/13/2019 Sat	18:35s	19:21t					
04/13/2019 Sat	20:00et				22:34s	23:32r	
04/14/2019 Sun	3:47mt	2:51s	4:26r	4:12r		3:59t	1:18r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/14/2019 Sun	5:12r		10:16t	9:59t	7:14r	8:27s	5:51t
04/14/2019 Sun	11:53t	12:54r	16:06s	15:46s	14:53t		10:24s
04/14/2019 Sun	18:36s						
04/14/2019 Sun	20:01et	20:17t			22:34s	23:28r	
04/15/2019 M	3:45mt	3:30s	4:25r	4:11r		3:55t	1:14r
04/15/2019 M	5:10r		10:16t	9:59t	7:12r	8:23s	5:47t
04/15/2019 M	11:53t	14:09r	16:08s	15:49s	14:52t		10:21s
04/15/2019 M	18:37s						
04/15/2019 M	20:03et	21:13t			22:33s	23:24r	
04/16/2019 Tu	3:43mt	4:04s	4:24r	4:09r		3:51t	1:10r
04/16/2019 Tu	5:08r		10:17t	10:00t	7:10r	8:19s	5:44t
04/16/2019 Tu	11:53t	15:25r	16:10s	15:51s	14:51t		10:17s
04/16/2019 Tu	18:38s						
04/16/2019 Tu	20:05et	22:06t			22:32s	23:20r	
04/17/2019 W	3:41mt	4:35s	4:23r	4:08r		3:47t	1:07r
04/17/2019 W	5:07r			10:00t	7:09r	8:15s	5:40t
04/17/2019 W	11:53t		10:17t	15:53s	14:50t		10:13s
04/17/2019 W	18:40s	16:40r	16:13s				
04/17/2019 W	20:06et	22:59t			22:32s	23:16r	
04/18/2019 Th	3:39mt		4:21r	4:07r		3:43t	1:03r
04/18/2019 Th	5:05r	5:05s		10:01t	7:07r	8:11s	5:36t
04/18/2019 Th	11:53t		10:18t	15:56s	14:49t		10:09s
04/18/2019 Th	18:41s	17:55r	16:15s				
04/18/2019 Th	20:08et	23:50t			22:31s	23:12r	
04/19/2019 F	3:37mt	4:12FM	4:20r	4:06r		3:39t	0:59r
04/19/2019 F	5:03r	5:35s		10:01t	7:05r	8:07s	5:32t
04/19/2019 F	11:52t		10:19t	15:58s	14:48t		10:05s
04/19/2019 F	18:42s	19:09r	16:18s				
04/19/2019 F	20:09et				22:31s	23:08r	
04/20/2019 Sat	3:35mt	0:42t	4:20r	4:04r		3:35t	0:55r
04/20/2019 Sat	5:02r	6:06s			7:04r	8:03s	5:28t
04/20/2019 Sat	11:52t		10:20t	10:02t	14:47t		10:01s
04/20/2019 Sat	18:43s		16:21s	16:00s			
04/20/2019 Sat	20:11et	20:22r			22:30s	23:04r	
04/21/2019 Sun	3:33mt	1:35t	4:19r	4:03r		3:31t	0:51r
04/21/2019 Sun	5:00r	6:40s			7:02r	7:59s	5:24t
04/21/2019 Sun	11:52t		10:21t	10:02t	14:46t		9:58s
04/21/2019 Sun	18:45s		16:24s	16:03s			
04/21/2019 Sun	20:12et	21:31r			22:29s	23:00r	
04/22/2019 M	3:31mt	2:27t	4:18r	4:02r		3:27t	0:47r
04/22/2019 M	4:59r	7:18s			7:01r	7:55s	5:20t
04/22/2019 M	11:52t		10:22t	10:03t	14:45t		9:54s
04/22/2019 M	18:46s		16:27s	16:05s			
04/22/2019 M	20:14et	22:36r			22:28s	22:55r	
04/23/2019 Tu	3:29mt	3:20t	4:17r	4:00r		3:23t	0:43r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/23/2019 Tu	4:57r	8:01s			6:59r	7:50s	5:17t
04/23/2019 Tu	11:52t		10:23t	10:03t	14:43t		9:50s
04/23/2019 Tu	18:47s		16:31s	16:07s			
04/23/2019 Tu	20:16et	23:35r			22:28s	22:51r	
04/24/2019 W	3:27mt	4:12t	4:16r	3:59r		3:19t	0:39r
04/24/2019 W	4:55r	8:49s			6:58r	7:46s	5:13t
04/24/2019 W	11:51t		10:25t	10:04t	14:42t		9:46s
04/24/2019 W	18:48s		16:35s	16:10s			
04/24/2019 W	20:17et				22:27s	22:47r	
04/25/2019 Th	3:25mt	0:27r	4:15r	3:58r		3:15t	0:35r
04/25/2019 Th	4:54r	5:04t			6:56r	7:42s	5:09t
04/25/2019 Th	11:51t	9:41s	10:26t	10:04t	14:41t		9:42s
04/25/2019 Th	18:49s		16:38s	16:12s			
04/25/2019 Th	20:19et				22:26s	22:43r	
04/26/2019 F	3:23mt	1:12r	4:14r	3:57r		3:11t	0:32r
04/26/2019 F	4:52r	5:53t			6:55r	7:38s	5:05t
04/26/2019 F	11:51t	10:37s	10:28t	10:05t	14:40t		9:38s
04/26/2019 F	18:51s	15:18LQ	16:42s	16:14s			
04/26/2019 F	20:21et				22:26s	22:39r	
04/27/2019 Sat	3:21mt	1:50r	4:14r	3:55r		3:06t	0:28r
04/27/2019 Sat	4:51r	6:40t			6:53r	7:34s	5:01t
04/27/2019 Sat	11:51t	11:36s	10:30t	10:06t	14:39t		9:34s
04/27/2019 Sat	18:52s		16:47s	16:17s			
04/27/2019 Sat	20:22et				22:25s	22:35r	
04/28/2019 Sun	3:19mt	2:23r	4:13r	3:54r		3:02t	0:24r
04/28/2019 Sun	4:49r	7:26t			6:52r	7:30s	4:57t
04/28/2019 Sun	11:51t	12:35s	10:31t	10:06t	14:38t		9:30s
04/28/2019 Sun	18:53s		16:51s	16:19s			
04/28/2019 Sun	20:24et				22:24s	22:31r	
04/29/2019 M	3:17mt	2:52r	4:12r	3:53r		2:58t	0:20r
04/29/2019 M	4:48r	8:10t			6:51r	7:26s	4:53t
04/29/2019 M	11:51t	13:35s	10:33t	10:07t	14:37t		9:26s
04/29/2019 M	18:54s		16:56s	16:21s			
04/29/2019 M	20:26et				22:23s	22:26r	
04/30/2019 Tu	3:15mt	3:18r	4:12r	3:51r		2:54t	0:16r
04/30/2019 Tu	4:46r	8:53t			6:49r	7:21s	4:49t
04/30/2019 Tu	11:50t	14:36s	10:35t	10:07t	14:36t		9:22s
04/30/2019 Tu	18:55s		17:00s	16:24s			
04/30/2019 Tu	20:27et				22:22s	22:22r	
05/01/2019 W	3:13mt	3:42r	4:11r	3:50r		2:50t	0:12r
05/01/2019 W	4:45r				6:48r	7:17s	4:45t
05/01/2019 W	11:50t	9:35t	10:38t	10:08t	14:35t		9:18s
05/01/2019 W	18:57s	15:37s	17:05s	16:26s			
05/01/2019 W	20:29et				22:21s	22:18r	
05/02/2019 Th	3:11mt	4:06r	4:11r	3:49r		2:45t	0:08r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/02/2019 Th	4:43r				6:47r	7:13s	4:41t
05/02/2019 Th	11:50t	10:18t	10:40t	10:08t	14:34t		9:15s
05/02/2019 Th	18:58s	16:40s	17:11s	16:28s			
05/02/2019 Th	20:31et				22:21s	22:14r	
05/03/2019 F	3:09mt	4:31r	4:10r	3:48r		2:41t	0:04r
05/03/2019 F	4:42r				6:45r	7:09s	4:37t
05/03/2019 F	11:50t	11:02t	10:42t	10:09t	14:32t		9:11s
05/03/2019 F	18:59s	17:44s	17:16s	16:31s			
05/03/2019 F	20:32et				22:20s	22:09r	
05/04/2019 Sat	3:07mt		4:10r	3:46r		2:37t	0:00r
05/04/2019 Sat	4:41r	4:57r			6:44r	7:05s	4:33t
05/04/2019 Sat	11:50t	11:48t	10:45t	10:09t	14:31t		9:07s
05/04/2019 Sat		15:45NM	17:21s	16:33s			
05/04/2019 Sat	19:00s	18:49s					
05/04/2019 Sat	20:34et				22:19s	22:05r	23:56r
05/05/2019 Sun	3:06mt		4:10r	3:45r		2:33t	4:29t
05/05/2019 Sun	4:39r	5:27r	10:48t	10:10t	6:43r	7:00s	9:03s
05/05/2019 Sun	11:50t	12:37t	17:27s	16:36s	14:30t		
05/05/2019 Sun	19:01s	19:57s					
05/05/2019 Sun	20:36et				22:18s	22:01r	23:52r
05/06/2019 M	3:04mt		4:09r	3:44r		2:29t	4:25t
05/06/2019 M	4:38r	6:01r	10:50t	10:10t	6:41r	6:56s	8:59s
05/06/2019 M	11:50t	13:28t	17:33s	16:38s	14:29t		
05/06/2019 M	19:03s						
05/06/2019 M	20:37et	21:04s			22:17s	21:57r	23:48r
05/07/2019 Tu	3:02mt		4:09r	3:43r		2:24t	4:21t
05/07/2019 Tu	4:37r	6:42r	10:53t	10:11t	6:40r	6:52s	8:55s
05/07/2019 Tu	11:50t	14:23t	17:39s	16:40s	14:28t		
05/07/2019 Tu	19:04s						
05/07/2019 Tu	20:39et	22:10s			22:16s	21:52r	23:44r
05/08/2019 W	3:00mt		4:09r	3:41r		2:20t	4:17t
05/08/2019 W	4:35r	7:31r	10:56t	10:12t	6:39r	6:48s	8:51s
05/08/2019 W	11:50t	15:20t	17:45s	16:43s	14:27t		
05/08/2019 W	19:05s						
05/08/2019 W	20:41et	23:11s			22:15s	21:48r	23:40r
05/09/2019 Th	2:58mt		4:09r	3:40r		2:16t	4:13t
05/09/2019 Th	4:34r	8:28r	11:00t	10:12t	6:38r	6:43s	8:47s
05/09/2019 Th	11:50t	16:18t	17:52s	16:45s	14:26t		
05/09/2019 Th	19:06s						
05/09/2019 Th	20:42et				22:14s	21:44r	23:36r
05/10/2019 F	2:57mt	0:05s	4:09r	3:39r		2:11t	4:09t
05/10/2019 F	4:33r	9:33r	11:03t	10:13t	6:36r	6:39s	8:43s
05/10/2019 F	11:50t	17:16t	17:59s	16:48s	14:25t		
05/10/2019 F	19:07s						
05/10/2019 F	20:44et				22:13s	21:39r	23:32r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/11/2019 Sat	2:55mt	0:52s	4:10r	3:38r		2:07t	4:05t
05/11/2019 Sat	4:32r	10:43r	11:07t	10:13t	6:35r	6:35s	8:39s
05/11/2019 Sat	11:50t	18:12FQ	18:05s	16:50s	14:24t		
05/11/2019 Sat	19:08s	18:12t					
05/11/2019 Sat	20:46et				22:12s	21:35r	23:28r
05/12/2019 Sun	2:53mt	1:32s	4:10r	3:37r		2:03t	4:01t
05/12/2019 Sun	4:30r		11:10t	10:14t	6:34r	6:31s	8:35s
05/12/2019 Sun	11:50t	11:56r	18:13s	16:52s	14:23t		
05/12/2019 Sun	19:09s	19:07t					
05/12/2019 Sun	20:47et				22:11s	21:31r	23:24r
05/13/2019 M	2:51mt	2:06s	4:11r	3:36r		1:58t	3:57t
05/13/2019 M	4:29r		11:14t	10:15t	6:33r	6:26s	8:31s
05/13/2019 M	11:50t	13:09r	18:20s	16:55s	14:21t		
05/13/2019 M	19:11s	19:59t					
05/13/2019 M	20:49et				22:10s	21:26r	23:20r
05/14/2019 Tu	2:50mt	2:37s	4:11r	3:34r		1:54t	3:53t
05/14/2019 Tu	4:28r		11:18t	10:15t	6:32r	6:22s	8:27s
05/14/2019 Tu	11:50t	14:23r	18:27s	16:57s	14:20t		
05/14/2019 Tu	19:12s	20:50t					
05/14/2019 Tu	20:51et				22:09s	21:22r	23:16r
05/15/2019 W	2:48mt	3:06s	4:12r	3:33r		1:50t	3:49t
05/15/2019 W	4:27r		11:22t	10:16t	6:31r	6:18s	8:22s
05/15/2019 W	11:50t	15:36r	18:35s	17:00s	14:19t		
05/15/2019 W	19:13s						
05/15/2019 W	20:52et	21:41t			22:08s	21:18r	23:12r
05/16/2019 Th	2:46mt	3:35s	4:13r	3:32r		1:45t	3:45t
05/16/2019 Th	4:26r		11:27t	10:17t	6:29r	6:13s	8:18s
05/16/2019 Th	11:50t	16:49r	18:43s	17:02s	14:18t		
05/16/2019 Th	19:14s						
05/16/2019 Th	20:54et	22:31t			22:07s	21:13r	23:08r
05/17/2019 F	2:45mt	4:04s	4:14r	3:31r		1:41t	3:41t
05/17/2019 F	4:25r		11:31t	10:17t	6:28r	6:09s	8:14s
05/17/2019 F	11:50t	18:01r	18:50s	17:05s	14:17t		
05/17/2019 F	19:15s						
05/17/2019 F	20:56et	23:22t			22:06s	21:09r	23:04r
05/18/2019 Sat	2:43mt		4:15r	3:30r		1:37t	3:37t
05/18/2019 Sat	4:24r	4:36s	11:36t	10:18t	6:27r	6:05s	8:10s
05/18/2019 Sat	11:50t	14:11FM	18:58s	17:07s	14:16t		
05/18/2019 Sat	19:16s	19:11r					
05/18/2019 Sat	20:57et				22:05s	21:04r	23:00r
05/19/2019 Sun	2:42mt	0:15t	4:17r	3:29r		1:32t	3:33t
05/19/2019 Sun	4:23r	5:11s	11:41t	10:19t	6:26r	6:00s	8:06s
05/19/2019 Sun	11:50t		19:06s	17:10s	14:15t		
05/19/2019 Sun	19:17s	20:19r					
05/19/2019 Sun	20:59et				22:04s	21:00r	22:56r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/20/2019 M	2:40mt	1:08t	4:19r	3:28r		1:28t	3:29t
05/20/2019 M	4:22r	5:52s	11:46t	10:20t	6:25r	5:56s	8:02s
05/20/2019 M	11:50t		19:15s	17:12s	14:14t		
05/20/2019 M	19:18s					20:56r	
05/20/2019 M	21:00et	21:22r			22:02s		22:52r
05/21/2019 Tu	2:39mt	2:01t	4:21r	3:27r		1:24t	3:25t
05/21/2019 Tu	4:21r	6:38s		10:20t	6:24r	5:51s	7:58s
05/21/2019 Tu	11:50t		11:51t	17:15s	14:13t		
05/21/2019 Tu	19:19s		19:23s			20:51r	
05/21/2019 Tu	21:02et	22:18r			22:01s		22:48r
05/22/2019 W	2:37mt	2:53t		3:26r		1:19t	3:21t
05/22/2019 W	4:20r	7:29s	4:23r	10:21t	6:23r	5:47s	7:54s
05/22/2019 W	11:50t		11:56t	17:17s	14:12t		
05/22/2019 W	19:20s		19:31s			20:47r	
05/22/2019 W	21:03et	23:07r			22:00s		22:44r
05/23/2019 Th	2:36mt	3:44t		3:25r		1:15t	3:17t
05/23/2019 Th	4:19r	8:24s	4:25r	10:22t	6:22r	5:43s	7:50s
05/23/2019 Th	11:50t		12:01t	17:19s	14:10t		
05/23/2019 Th	19:21s		19:39s			20:42r	
05/23/2019 Th	21:05et	23:48r			21:59s		22:40r
05/24/2019 F	2:35mt			3:24r		1:10t	3:13t
05/24/2019 F	4:18r	4:33t	4:28r		6:21r	5:38s	7:46s
05/24/2019 F	11:50t	9:23s	12:06t	10:23t	14:09t		
05/24/2019 F	19:22s		19:47s	17:22s		20:38r	
05/24/2019 F	21:06et				21:57s		22:36r
05/25/2019 Sat	2:33mt	0:24r		3:23r		1:06t	3:09t
05/25/2019 Sat	4:18r	5:20t	4:30r		6:20r	5:34s	7:42s
05/25/2019 Sat	11:50t	10:22s	12:12t	10:23t	14:08t		
05/25/2019 Sat	19:23s		19:55s	17:24s		20:33r	
05/25/2019 Sat	21:08et				21:56s		22:32r
05/26/2019 Sun	2:32mt	0:54r		3:22r		1:01t	3:05t
05/26/2019 Sun	4:17r	6:05t	4:33r		6:19r	5:29s	7:37s
05/26/2019 Sun		9:34LQ		10:24t			
05/26/2019 Sun	11:50t	11:23s	12:17t	17:27s	14:07t		
05/26/2019 Sun	19:24s		20:02s			20:29r	
05/26/2019 Sun	21:09et				21:55s		22:28r
05/27/2019 M	2:31mt	1:21r		3:22r		0:57t	3:01t
05/27/2019 M	4:16r	6:48t	4:36r	10:25t	6:18r	5:25s	7:33s
05/27/2019 M	11:50t	12:23s	12:22t	17:29s	14:06t		
05/27/2019 M	19:25s		20:09s			20:24r	
05/27/2019 M	21:11et				21:54s		22:24r
05/28/2019 Tu	2:30mt	1:45r		3:21r		0:53t	2:56t
05/28/2019 Tu	4:15r	7:30t	4:39r	10:26t	6:17r	5:21s	7:29s
05/28/2019 Tu	11:50t	13:24s	12:27t	17:32s	14:05t		
05/28/2019 Tu	19:26s		20:17s			20:20r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/28/2019 Tu	21:12et				21:52s		22:20r
05/29/2019 W	2:29mt	2:09r		3:20r		0:48t	2:52t
05/29/2019 W	4:15r	8:12t	4:43r	10:27t	6:16r	5:16s	7:25s
05/29/2019 W	11:51t	14:25s	12:33t	17:34s	14:04t		
05/29/2019 W	19:27s		20:23s			20:15r	
05/29/2019 W	21:14et				21:51s		22:16r
05/30/2019 Th	2:28mt	2:33r		3:19r		0:44t	2:48t
05/30/2019 Th	4:14r	8:55t	4:46r	10:28t	6:15r	5:12s	7:21s
05/30/2019 Th	11:51t	15:28s	12:38t	17:37s	14:03t		
05/30/2019 Th	19:28s		20:30s			20:11r	
05/30/2019 Th	21:15et				21:50s		22:11r
05/31/2019 F	2:27mt	2:58r		3:19r		0:39t	2:44t
05/31/2019 F	4:14r	9:40t	4:50r	10:29t	6:15r	5:07s	7:17s
05/31/2019 F	11:51t	16:33s	12:43t	17:39s	14:01t		
05/31/2019 F	19:29s		20:36s			20:06r	
05/31/2019 F	21:16et				21:48s		22:07r
06/01/2019 Sat	2:26mt	3:26r		3:18r		0:35t	2:40t
06/01/2019 Sat	4:13r	10:28t	4:54r	10:29t	6:14r	5:03s	7:12s
06/01/2019 Sat	11:51t	17:40s	12:48t	17:42s	14:00t		
06/01/2019 Sat	19:29s		20:42s			20:02r	
06/01/2019 Sat	21:17et				21:47s		22:03r
06/02/2019 Sun	2:25mt	3:59r		3:17r		0:30t	2:36t
06/02/2019 Sun	4:13r	11:19t	4:58r	10:30t	6:13r	4:59s	7:08s
06/02/2019 Sun	11:51t	18:49s	12:52t	17:44s	13:59t		
06/02/2019 Sun	19:30s		20:47s			19:57r	
06/02/2019 Sun	21:19et				21:45s		21:59r
06/03/2019 M	2:24mt	3:02NM		3:17r		0:26t	2:32t
06/03/2019 M	4:12r	4:37r	5:02r	10:31t	6:12r	4:54s	7:04s
06/03/2019 M	11:51t	12:13t	12:57t	17:47s	13:58t		
06/03/2019 M	19:31s	19:57s	20:52s			19:53r	
06/03/2019 M	21:20et				21:44s		21:55r
06/04/2019 Tu	2:23mt			3:16r		0:21t	2:27t
06/04/2019 Tu	4:12r	5:23r	5:06r	10:32t	6:11r	4:50s	7:00s
06/04/2019 Tu	11:52t	13:11t	13:01t	17:49s	13:57t		
06/04/2019 Tu	19:32s	21:02s	20:57s			19:48r	
06/04/2019 Tu	21:21et				21:42s		21:51r
06/05/2019 W	2:22mt			3:16r		0:17t	2:23t
06/05/2019 W	4:11r	6:19r	5:10r	10:33t	6:10r	4:45s	6:56s
06/05/2019 W	11:52t	14:11t	13:06t	17:52s	13:56t		
06/05/2019 W	19:33s		21:01s			19:44r	
06/05/2019 W	21:22et	22:01s			21:41s		21:47r
06/06/2019 Th	2:21mt			3:15r		0:12t	2:19t
06/06/2019 Th	4:11r	7:23r	5:14r	10:34t	6:09r	4:41s	6:51s
06/06/2019 Th	11:52t	15:10t	13:10t	17:54s	13:55t		
06/06/2019 Th	19:33s		21:05s			19:39r	

**Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.
All dates and times are MST.**

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/06/2019 Th	21:23et	22:51s			21:40s		21:43r
06/07/2019 F	2:21mt			3:15r		0:08t	2:15t
06/07/2019 F	4:11r	8:33r	5:18r	10:35t	6:09r	4:36s	6:47s
06/07/2019 F	11:52t	16:08t	13:13t	17:57s	13:53t		
06/07/2019 F	19:34s		21:08s			19:35r	
06/07/2019 F	21:24et	23:34s			21:38s		21:39r
06/08/2019 Sat	2:20mt			3:15r		0:03t	2:11t
06/08/2019 Sat	4:10r	9:46r	5:22r	10:36t	6:08r	4:32s	6:43s
06/08/2019 Sat	11:52t	17:04t	13:17t	17:59s	13:52t	19:30r	
06/08/2019 Sat	19:35s		21:11s				
06/08/2019 Sat	21:25et				21:36s	23:59t	21:34r
06/09/2019 Sun	2:19mt	0:10s		3:14r			2:07t
06/09/2019 Sun	4:10r	11:00r	5:26r	10:38t	6:07r	4:27s	6:39s
06/09/2019 Sun	11:52t	17:57t	13:20t	18:01s	13:51t	19:26r	
06/09/2019 Sun	19:35s		21:14s				
06/09/2019 Sun	21:26et	22:59FQ			21:35s	23:54t	21:30r
06/10/2019 M	2:19mt	0:42s		3:14r			2:03t
06/10/2019 M	4:10r		5:31r	10:39t	6:06r	4:23s	6:35s
06/10/2019 M	11:53t	12:13r	13:24t	18:04s	13:50t		
06/10/2019 M	19:36s	18:48t	21:16s			19:21r	21:26r
06/10/2019 M	21:27et				21:33s	23:50t	
06/11/2019 Tu	2:18mt	1:11s		3:14r			1:58t
06/11/2019 Tu	4:10r		5:34r	10:40t	6:05r	4:19s	6:30s
06/11/2019 Tu	11:53t	13:25r	13:27t	18:06s	13:49t	19:17r	
06/11/2019 Tu	19:36s	19:37t	21:18s				21:22r
06/11/2019 Tu	21:28et				21:32s	23:45t	
06/12/2019 W	2:18mt	1:38s		3:14r			1:54t
06/12/2019 W	4:10r		5:38r	10:41t	6:05r	4:14s	6:26s
06/12/2019 W	11:53t	14:36r	13:29t	18:09s	13:48t	19:12r	
06/12/2019 W	19:37s	20:26t	21:20s				21:18r
06/12/2019 W	21:29et				21:30s	23:41t	
06/13/2019 Th	2:18mt	2:06s		3:14r			1:50t
06/13/2019 Th	4:09r		5:42r	10:42t	6:04r	4:10s	6:22s
06/13/2019 Th	11:53t	15:47r	13:32t	18:11s	13:46t	19:08r	
06/13/2019 Th	19:37s	21:16t	21:21s		21:29s		21:14r
06/13/2019 Th	21:29et					23:37t	
06/14/2019 F	2:17mt	2:36s		3:14r		4:05s	1:46t
06/14/2019 F	4:09r		5:46r	10:43t	6:03r		6:18s
06/14/2019 F	11:54t	16:56r	13:34t	18:13s	13:45t	19:03r	
06/14/2019 F	19:38s		21:22s		21:27s		21:10r
06/14/2019 F	21:30et	22:06t				23:32t	
06/15/2019 Sat	2:17mt	3:09s		3:14r		4:01s	1:42t
06/15/2019 Sat	4:09r		5:49r	10:44t	6:02r		6:13s
06/15/2019 Sat	11:54t	18:04r	13:36t	18:16s	13:44t	18:59r	
06/15/2019 Sat	19:38s		21:22s		21:25s		21:05r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/15/2019 Sat	21:30et	22:58t				23:28t	
06/16/2019 Sun	2:17mt	3:47s		3:14r		3:56s	1:37t
06/16/2019 Sun	4:09r		5:53r	10:46t	6:02r		6:09s
06/16/2019 Sun	11:54t	19:09r	13:38t	18:18s	13:43t	18:54r	
06/16/2019 Sun	19:39s		21:23s		21:24s		21:01r
06/16/2019 Sun	21:31et	23:51t				23:23t	
06/17/2019 M	2:17mt	1:31FM		3:14r		3:52s	1:33t
06/17/2019 M	4:09r	4:30s	5:56r	10:47t	6:01r		6:05s
06/17/2019 M	11:54t		13:40t	18:20s	13:42t	18:50r	
06/17/2019 M	19:39s	20:08r	21:22s		21:22s		20:57r
06/17/2019 M	21:31et					23:19t	
06/18/2019 Tu	2:17mt	0:44t		3:14r		3:48s	1:29t
06/18/2019 Tu	4:09r	5:19s	5:59r	10:48t	6:00r		6:01s
06/18/2019 Tu	11:54t		13:41t	18:22s	13:40t	18:45r	
06/18/2019 Tu	19:39s	21:00r	21:22s		21:20s		20:53r
06/18/2019 Tu	21:32et					23:14t	
06/19/2019 W	2:17mt	1:36t		3:15r		3:43s	1:25t
06/19/2019 W	4:10r	6:13s	6:02r	10:49t	6:00r		5:56s
06/19/2019 W	11:55t		13:42t	18:25s	13:39t	18:41r	
06/19/2019 W	19:40s		21:21s		21:18s		20:49r
06/19/2019 W	21:32et	21:45r				23:10t	
06/20/2019 Th	2:17mt	2:26t		3:15r		3:39s	1:21t
06/20/2019 Th	4:10r	7:10s	6:04r	10:51t	5:59r		5:52s
06/20/2019 Th	11:55t		13:43t	18:27s	13:38t	18:36r	
06/20/2019 Th	19:40s		21:20s		21:17s		20:45r
06/20/2019 Th	21:32et	22:23r				23:05t	
06/21/2019 F	2:17mt	3:14t		3:15r		3:34s	1:16t
06/21/2019 F	4:10r	8:10s	6:07r		5:58r		5:48s
06/21/2019 F	8:54JS			10:52t			
06/21/2019 F	11:55t		13:44t	18:29s	13:37t	18:32r	
06/21/2019 F	19:40s		21:19s		21:15s		20:41r
06/21/2019 F	21:33et	22:55r				23:01t	
06/22/2019 Sat	2:18mt	3:59t		3:16r		3:30s	1:12t
06/22/2019 Sat	4:10r	9:10s	6:09r	10:53t	5:58r		5:44s
06/22/2019 Sat	11:55t		13:44t	18:31s	13:36t	18:27r	
06/22/2019 Sat	19:40s		21:18s		21:13s		20:36r
06/22/2019 Sat	21:33et	23:23r				22:56t	
06/23/2019 Sun	2:18mt			3:16r		3:25s	1:08t
06/23/2019 Sun	4:10r	4:43t	6:11r		5:57r		5:39s
06/23/2019 Sun	11:55t	10:10s	13:44t	10:54t	13:34t	18:23r	
06/23/2019 Sun	19:40s		21:16s	18:33s	21:11s		20:32r
06/23/2019 Sun	21:33et	23:48r				22:52t	
06/24/2019 M	2:18mt			3:17r		3:21s	1:04t
06/24/2019 M	4:11r	5:25t	6:13r	10:56t	5:56r		5:35s
06/24/2019 M	11:56t	11:11s	13:44t	18:35s	13:33t	18:18r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/24/2019 M	19:41s		21:14s		21:09s		20:28r
06/24/2019 M	21:33et					22:47t	
06/25/2019 Tu	2:19mt	0:12r					0:59t
06/25/2019 Tu	4:11r	2:46LQ		3:17r	5:56r	3:17s	5:31s
06/25/2019 Tu	11:56t	6:07t	6:14r	10:57t			
06/25/2019 Tu	19:41s	12:11s	13:43t	18:37s	13:32t	18:14r	20:24r
06/25/2019 Tu	21:33et		21:12s		21:08s	22:43t	
06/26/2019 W	2:19mt	0:36r		3:18r		3:12s	0:55t
06/26/2019 W	4:11r	6:49t	6:15r	10:58t	5:55r		5:27s
06/26/2019 W	11:56t	13:13s	13:43t	18:39s	13:31t	18:09r	
06/26/2019 W	19:41s		21:09s		21:06s		20:20r
06/26/2019 W	21:33et					22:39t	
06/27/2019 Th	2:20mt	1:00r		3:19r		3:08s	0:51t
06/27/2019 Th	4:12r	7:32t	6:16r	11:00t	5:54r		5:22s
06/27/2019 Th	11:56t	14:16s	13:42t	18:41s	13:29t	18:05r	
06/27/2019 Th	19:41s		21:06s		21:04s		20:15r
06/27/2019 Th	21:33et					22:34t	
06/28/2019 F	2:20mt	1:26r		3:20r		3:03s	0:47t
06/28/2019 F	4:12r	8:18t	6:17r	11:01t	5:54r		5:18s
06/28/2019 F	11:56t	15:21s	13:40t	18:43s	13:28t	18:00r	
06/28/2019 F	19:41s		21:03s		21:02s		20:11r
06/28/2019 F	21:32et					22:30t	
06/29/2019 Sat	2:21mt	1:55r		3:21r		2:59s	0:42t
06/29/2019 Sat	4:13r	9:07t	6:17r	11:02t	5:53r		5:14s
06/29/2019 Sat	11:57t	16:29s	13:39t	18:45s	13:27t	17:56r	
06/29/2019 Sat	19:40s		21:00s		21:00s		20:07r
06/29/2019 Sat	21:32et					22:25t	
06/30/2019 Sun	2:22mt	2:30r		3:21r		2:55s	0:38t
06/30/2019 Sun	4:13r	10:00t	6:17r	11:04t	5:52r		5:09s
06/30/2019 Sun	11:57t	17:38s	13:37t	18:46s	13:26t	17:51r	
06/30/2019 Sun	19:40s		20:56s		20:58s		20:03r
06/30/2019 Sun	21:32et					22:21t	
07/01/2019 M	2:22mt	3:13r		3:22r		2:50s	0:34t
07/01/2019 M	4:14r	10:56t	6:16r	11:05t	5:52r		5:05s
07/01/2019 M	11:57t	18:45s	13:35t	18:48s	13:24t	17:47r	
07/01/2019 M	19:40s		20:53s		20:56s		19:59r
07/01/2019 M	21:31et					22:16t	
07/02/2019 Tu	2:23mt	4:05r		3:24r		2:46s	0:30t
07/02/2019 Tu	4:14r	11:56t	6:16r	11:07t	5:51r		5:01s
07/02/2019 Tu	11:57t	12:16NM	13:33t	18:50s	13:23t	17:43r	
07/02/2019 Tu	19:40s	19:48s	20:48s		20:54s		19:55r
07/02/2019 Tu	21:31et					22:12t	
07/03/2019 W	2:24mt			3:25r		2:42s	0:26t
07/03/2019 W	4:15r	5:06r	6:14r	11:08t	5:51r		4:57s
07/03/2019 W	11:57t	12:58t	13:30t	18:51s	13:22t	17:38r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/03/2019 W	19:40s	20:44s	20:44s		20:52s		19:50r
07/03/2019 W	21:30et					22:08t	
07/04/2019 Th	2:25mt			3:26r		2:37s	0:21t
07/04/2019 Th	4:15r	6:16r	6:13r	11:09t	5:50r		4:52s
07/04/2019 Th	11:58t	13:58t	13:27t	18:53s	13:20t	17:34r	
07/04/2019 Th	19:40s		20:40s		20:50s		19:46r
07/04/2019 Th	21:30et	21:31s				22:03t	
07/05/2019 F	2:26mt			3:27r		2:33s	0:17t
07/05/2019 F	4:16r	7:31r	6:11r	11:11t	5:49r		4:48s
07/05/2019 F	11:58t	14:57t	13:23t	18:54s	13:19t	17:29r	
07/05/2019 F	19:39s		20:35s		20:48s		19:42r
07/05/2019 F	21:29et	22:11s				21:59t	
07/06/2019 Sat	2:27mt			3:28r		2:29s	0:13t
07/06/2019 Sat	4:17r	8:47r	6:09r	11:12t	5:49r		4:44s
07/06/2019 Sat	11:58t	15:52t	13:20t	18:56s	13:18t	17:25r	19:38r
07/06/2019 Sat	19:39s		20:30s		20:46s		
07/06/2019 Sat	21:28et	22:45s				21:55t	
07/07/2019 Sun	2:28mt			3:30r		2:24s	0:09t
07/07/2019 Sun	4:17r	10:02r	6:06r	11:14t	5:48r		4:39s
07/07/2019 Sun	11:58t	16:44t	13:16t	18:57s	13:17t	17:21r	19:34r
07/07/2019 Sun	19:38s		20:25s		20:44s		
07/07/2019 Sun	21:28et	23:15s				21:50t	
07/08/2019 M	2:29mt			3:31r		2:20s	0:04t
07/08/2019 M	4:18r	11:16r	6:03r	11:15t	5:48r		4:35s
07/08/2019 M	11:58t	17:35t	13:11t	18:58s	13:15t	17:16r	19:29r
07/08/2019 M	19:38s		20:19s		20:42s		
07/08/2019 M	21:27et	23:43s				21:46t	
07/09/2019 Tu	2:30mt	3:55FQ		3:33r		2:16s	0:00t
07/09/2019 Tu	4:19r		5:59r	11:16t	5:47r		4:31s
07/09/2019 Tu	11:58t	12:27r	13:07t		13:14t	17:12r	
07/09/2019 Tu	19:38s	18:24t	20:14s	19:00s	20:40s		19:25r
07/09/2019 Tu	21:26et					21:42t	23:56t
07/10/2019 W	2:31mt	0:11s		3:34r		2:11s	
07/10/2019 W	4:20r		5:55r	11:18t	5:46r		4:26s
07/10/2019 W	11:59t	13:38r	13:02t	19:01s	13:13t	17:08r	
07/10/2019 W	19:37s	19:13t	20:08s		20:38s		19:21r
07/10/2019 W	21:25et					21:37t	23:52t
07/11/2019 Th	2:33mt	0:40s		3:36r		2:07s	
07/11/2019 Th	4:20r		5:51r	11:19t	5:46r		4:22s
07/11/2019 Th	11:59t	14:47r	12:57t	19:02s	13:11t	17:03r	19:17r
07/11/2019 Th	19:37s	20:03t	20:02s		20:36s		
07/11/2019 Th	21:24et					21:33t	23:47t
07/12/2019 F	2:34mt	1:11s		3:38r		2:03s	4:18s
07/12/2019 F	4:21r		5:46r	11:21t	5:45r		
07/12/2019 F	11:59t	15:55r	12:51t	19:03s	13:10t	16:59r	19:13r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/12/2019 F	19:36s	20:53t	19:56s		20:34s		
07/12/2019 F	21:23et					21:29t	23:43t
07/13/2019 Sat	2:35mt	1:46s		3:39r		1:59s	4:14s
07/13/2019 Sat	4:22r		5:41r	11:22t	5:45r		
07/13/2019 Sat	11:59t	16:59r	12:46t	19:04s	13:09t	16:55r	19:08r
07/13/2019 Sat	19:35s		19:50s		20:32s		
07/13/2019 Sat	21:22et	21:45t				21:24t	23:39t
07/14/2019 Sun	2:36mt	2:26s		3:41r		1:54s	4:09s
07/14/2019 Sun	4:23r		5:36r	11:23t	5:44r		
07/14/2019 Sun	11:59t	18:00r	12:40t	19:05s	13:07t	16:50r	19:04r
07/14/2019 Sun	19:35s		19:43s		20:30s	21:20t	
07/14/2019 Sun	21:21et	22:37t					23:35t
07/15/2019 M	2:38mt	3:12s		3:43r		1:50s	4:05s
07/15/2019 M	4:24r		5:30r	11:25t	5:44r		
07/15/2019 M	11:59t	18:54r	12:33t	19:06s	13:06t	16:46r	19:00r
07/15/2019 M	19:34s		19:37s		20:28s	21:16t	
07/15/2019 M	21:20et	23:29t					23:30t
07/16/2019 Tu	2:39mt	4:04s		3:45r		1:46s	4:01s
07/16/2019 Tu	4:25r		5:24r	11:26t	5:43r		
07/16/2019 Tu	11:59t	14:38FM	12:27t	19:07s	13:05t	16:42r	18:56r
07/16/2019 Tu	19:33s	19:41r	19:30s		20:26s	21:12t	
07/16/2019 Tu	21:18et						23:26t
07/17/2019 W	2:41mt	0:19t		3:47r		1:42s	3:56s
07/17/2019 W	4:26r	5:00s	5:17r	11:27t	5:43r		
07/17/2019 W	11:59t		12:20t	19:08s	13:03t	16:37r	18:52r
07/17/2019 W	19:33s	20:21r	19:24s		20:23s	21:07t	
07/17/2019 W	21:17et						23:22t
07/18/2019 Th	2:42mt	1:08t		3:49r		1:37s	3:52s
07/18/2019 Th	4:27r	5:59s	5:11r	11:29t	5:42r		
07/18/2019 Th	11:59t		12:14t	19:08s	13:02t	16:33r	18:47r
07/18/2019 Th	19:32s	20:56r	19:17s		20:21s	21:03t	
07/18/2019 Th	21:16et						23:18t
07/19/2019 F	2:43mt	1:55t		3:51r		1:33s	3:48s
07/19/2019 F	4:27r	7:00s	5:04r	11:30t	5:41r		
07/19/2019 F	12:00t		12:07t	19:09s	13:00t	16:29r	18:43r
07/19/2019 F	19:31s		19:11s		20:19s	20:59t	
07/19/2019 F	21:15et	21:25r					23:13t
07/20/2019 Sat	2:45mt	2:39t		3:53r		1:29s	3:44s
07/20/2019 Sat	4:28r	8:00s	4:57r	11:31t	5:41r		
07/20/2019 Sat	12:00t		12:00t		12:59t	16:25r	18:39r
07/20/2019 Sat	19:30s		19:04s	19:10s	20:17s	20:55t	
07/20/2019 Sat	21:13et	21:51r					23:09t
07/21/2019 Sun	2:46mt	3:22t		3:55r		1:25s	3:39s
07/21/2019 Sun	4:29r	9:00s	4:49r	11:33t	5:40r		
07/21/2019 Sun	12:00t		11:54t		12:58t	16:20r	18:35r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/21/2019 Sun	19:29s		18:58s	19:10s	20:15s	20:50t	
07/21/2019 Sun	21:12et	22:16r					23:05t
07/22/2019 M	2:48mt	4:03t		3:57r		1:21s	3:35s
07/22/2019 M	4:30r	10:00s	4:42r	11:34t	5:40r		
07/22/2019 M	12:00t		11:47t		12:56t	16:16r	18:31r
07/22/2019 M	19:28s		18:52s	19:10s	20:12s	20:46t	
07/22/2019 M	21:10et	22:39r					23:01t
07/23/2019 Tu	2:49mt			3:59r		1:16s	3:31s
07/23/2019 Tu	4:31r	4:45t	4:35r		5:39r		
07/23/2019 Tu	12:00t	11:00s	11:41t	11:35t	12:55t	16:12r	18:27r
07/23/2019 Tu	19:27s		18:46s	19:11s	20:10s	20:42t	
07/23/2019 Tu	21:09et	23:02r					22:56t
07/24/2019 W	2:51mt		4:28r	4:02r		1:12s	3:26s
07/24/2019 W	4:32r	5:27t	11:34t	11:37t	5:39r		
07/24/2019 W	12:00t	12:02s			12:54t	16:08r	
07/24/2019 W	19:26s	18:18LQ	18:41s	19:11s	20:08s	20:38t	18:22r
07/24/2019 W	21:07et	23:26r					22:52t
07/25/2019 Th	2:52mt		4:21r	4:04r		1:08s	3:22s
07/25/2019 Th	4:33r	6:10t	11:28t	11:38t	5:38r		
07/25/2019 Th	12:00t	13:05s	18:36s	19:11s	12:52t	16:04r	18:18r
07/25/2019 Th	19:25s				20:06s	20:34t	
07/25/2019 Th	21:06et	23:54r					22:48t
07/26/2019 F	2:54mt		4:14r	4:06r		1:04s	3:18s
07/26/2019 F	4:34r	6:57t	11:22t	11:39t	5:38r		
07/26/2019 F	12:00t	14:10s	18:31s	19:12s	12:51t	15:59r	18:14r
07/26/2019 F	19:24s				20:03s	20:30t	
07/26/2019 F	21:04et						22:44t
07/27/2019 Sat	2:56mt	0:25r	4:07r	4:08r		1:00s	3:14s
07/27/2019 Sat	4:36r	7:46t	11:16t	11:40t	5:37r		
07/27/2019 Sat	12:00t	15:17s	18:26s	19:12s	12:49t	15:55r	18:10r
07/27/2019 Sat	19:23s				20:01s	20:25t	
07/27/2019 Sat	21:03et						22:40t
07/28/2019 Sun	2:57mt	1:03r	4:01r	4:11r		0:56s	3:09s
07/28/2019 Sun	4:37r	8:40t	11:11t	11:42t	5:36r		
07/28/2019 Sun	12:00t	16:24s	18:22s	19:12s	12:48t	15:51r	18:06r
07/28/2019 Sun	19:22s				19:59s	20:21t	
07/28/2019 Sun	21:01et						22:35t
07/29/2019 M	2:59mt	1:50r	3:55r	4:13r		0:52s	3:05s
07/29/2019 M	4:38r	9:38t	11:06t	11:43t	5:36r		
07/29/2019 M	12:00t	17:30s	18:18s	19:12s	12:47t	15:47r	18:01r
07/29/2019 M	19:21s				19:57s	20:17t	
07/29/2019 M	20:59et						22:31t
07/30/2019 Tu	3:00mt	2:46r	3:49r	4:16r		0:47s	3:01s
07/30/2019 Tu	4:39r	10:39t	11:02t	11:44t	5:35r		
07/30/2019 Tu	12:00t	18:29s	18:15s	19:12s	12:45t	15:43r	17:57r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/30/2019 Tu	19:20s				19:54s	20:13t	
07/30/2019 Tu	20:58et						22:27t
07/31/2019 W	3:02mt	3:53r	3:44r	4:18r		0:43s	2:57s
07/31/2019 W	4:40r	11:41t	10:58t	11:45t	5:35r		
07/31/2019 W	12:00t		18:12s	19:12s	12:44t	15:39r	17:53r
07/31/2019 W	19:19s	19:21s			19:52s	20:09t	
07/31/2019 W	20:56et	20:12NM					22:23t
08/01/2019 Th	3:04mt		3:39r	4:21r		0:39s	2:52s
08/01/2019 Th	4:41r	5:07r	10:54t	11:47t	5:34r		
08/01/2019 Th	12:00t	12:42t	18:09s	19:12s	12:42t	15:35r	17:49r
08/01/2019 Th	19:17s	20:05s			19:50s	20:05t	
08/01/2019 Th	20:54et						22:19t
08/02/2019 F	3:05mt		3:35r	4:23r		0:35s	2:48s
08/02/2019 F	4:42r	6:25r	10:50t	11:48t	5:34r		
08/02/2019 F	11:59t	13:40t	18:07s	19:11s	12:41t	15:31r	17:45r
08/02/2019 F	19:16s	20:43s			19:47s	20:01t	
08/02/2019 F	20:52et						22:14t
08/03/2019 Sat	3:07mt		3:31r	4:26r		0:31s	2:44s
08/03/2019 Sat	4:43r	7:44r	10:48t	11:49t	5:33r		
08/03/2019 Sat	11:59t	14:36t	18:05s	19:11s	12:39t	15:27r	17:41r
08/03/2019 Sat	19:15s				19:45s	19:57t	
08/03/2019 Sat	20:51et	21:15s					22:10t
08/04/2019 Sun	3:08mt		3:27r	4:28r		0:27s	2:40s
08/04/2019 Sun	4:44r	9:00r	10:45t	11:50t	5:33r		
08/04/2019 Sun	11:59t	15:29t	18:04s	19:11s	12:38t	15:23r	17:37r
08/04/2019 Sun	19:14s				19:43s	19:53t	
08/04/2019 Sun	20:49et	21:45s					22:06t
08/05/2019 M	3:10mt		3:24r	4:31r		0:23s	2:35s
08/05/2019 M	4:45r	10:15r	10:43t	11:51t	5:32r		
08/05/2019 M	11:59t	16:20t	18:03s	19:11s	12:36t	15:19r	17:32r
08/05/2019 M	19:12s				19:40s	19:49t	
08/05/2019 M	20:47et	22:14s					22:02t
08/06/2019 Tu	3:12mt		3:22r	4:33r		0:19s	2:31s
08/06/2019 Tu	4:46r	11:28r	10:42t	11:52t	5:31r		
08/06/2019 Tu	11:59t	17:10t	18:02s	19:10s	12:35t	15:15r	17:28r
08/06/2019 Tu	19:11s				19:38s	19:45t	
08/06/2019 Tu	20:45et	22:43s					21:58t
08/07/2019 W	3:13mt		3:20r	4:36r		0:15s	2:27s
08/07/2019 W	4:48r	10:31FQ	10:41t	11:53t	5:31r		
08/07/2019 W	11:59t	12:39r			12:34t	15:11r	17:24r
08/07/2019 W	19:10s	18:00t	18:02s	19:10s	19:36s	19:41t	
08/07/2019 W	20:43et	23:13s					21:53t
08/08/2019 Th	3:15mt		3:19r	4:38r		0:11s	2:23s
08/08/2019 Th	4:49r		10:40t	11:54t	5:30r		
08/08/2019 Th	11:59t	13:47r	18:02s		12:32t	15:07r	17:20r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/08/2019 Th	19:08s	18:50t		19:09s	19:33s	19:37t	
08/08/2019 Th	20:42et	23:47s					21:49t
08/09/2019 F	3:17mt		3:18r	4:41r		0:07s	2:18s
08/09/2019 F	4:50r		10:40t	11:55t	5:30r		
08/09/2019 F	11:59t	14:53r	18:02s		12:31t	15:03r	17:16r
08/09/2019 F	19:07s	19:41t		19:09s	19:31s	19:33t	
08/09/2019 F	20:40et						21:45t
08/10/2019 Sat	3:18mt	0:26s	3:18r	4:43r		0:03s	2:14s
08/10/2019 Sat	4:51r		10:40t	11:56t	5:29r		
08/10/2019 Sat	11:59t	15:54r	18:03s		12:29t	14:59r	17:12r
08/10/2019 Sat	19:05s	20:33t		19:08s	19:28s	19:29t	
08/10/2019 Sat	20:38et					23:59s	21:41t
08/11/2019 Sun	3:20mt	1:10s	3:18r	4:46r			2:10s
08/11/2019 Sun	4:52r		10:41t	11:57t	5:29r		
08/11/2019 Sun	11:58t	16:50r	18:04s		12:28t	14:55r	17:08r
08/11/2019 Sun	19:04s			19:08s	19:26s	19:25t	
08/11/2019 Sun	20:36et	21:25t				23:55s	21:37t
08/12/2019 M	3:21mt	1:59s	3:19r	4:49r			2:06s
08/12/2019 M	4:53r		10:42t		5:28r		
08/12/2019 M	11:58t	17:39r	18:05s	11:58t	12:26t	14:51r	17:03r
08/12/2019 M	19:02s			19:07s	19:24s	19:21t	
08/12/2019 M	20:34et	22:15t				23:51s	21:33t
08/13/2019 Tu	3:23mt	2:54s	3:21r	4:51r			2:02s
08/13/2019 Tu	4:54r		10:44t		5:28r		
08/13/2019 Tu	11:58t	18:21r	18:07s	11:59t	12:25t	14:47r	16:59r
08/13/2019 Tu	19:01s			19:06s	19:21s	19:17t	
08/13/2019 Tu	20:32et	23:04t				23:47s	21:28t
08/14/2019 W	3:24mt	3:52s	3:23r	4:54r			1:57s
08/14/2019 W	4:55r		10:46t		5:27r		
08/14/2019 W	11:58t	18:57r	18:08s	12:00t	12:23t	14:43r	16:55r
08/14/2019 W	18:59s			19:05s	19:19s	19:13t	
08/14/2019 W	20:30et	23:51t				23:43s	21:24t
08/15/2019 Th	3:26mt	4:51s	3:25r	4:56r			1:53s
08/15/2019 Th	4:57r	5:29FM	10:48t		5:26r		
08/15/2019 Th	11:58t		18:10s	12:01t	12:22t	14:39r	16:51r
08/15/2019 Th	18:58s	19:28r		19:05s	19:16s	19:10t	
08/15/2019 Th	20:28et					23:40s	21:20t
08/16/2019 F	3:28mt	0:36t	3:28r				1:49s
08/16/2019 F	4:58r	5:52s	10:50t	4:59r	5:26r		
08/16/2019 F	11:57t		18:12s	12:02t	12:20t	14:36r	16:47r
08/16/2019 F	18:56s	19:55r		19:04s	19:14s	19:06t	
08/16/2019 F	20:26et					23:36s	21:16t
08/17/2019 Sat	3:29mt	1:20t	3:32r				1:45s
08/17/2019 Sat	4:59r	6:52s	10:53t	5:02r	5:25r		
08/17/2019 Sat	11:57t		18:14s	12:03t	12:19t	14:32r	16:43r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/17/2019 Sat	18:55s	20:19r		19:03s	19:11s	19:02t	
08/17/2019 Sat	20:24et					23:32s	21:12t
08/18/2019 Sun	3:31mt	2:01t	3:36r				1:41s
08/18/2019 Sun	5:00r	7:52s	10:56t	5:04r	5:25r		
08/18/2019 Sun	11:57t		18:15s	12:04t	12:17t	14:28r	16:39r
08/18/2019 Sun	18:53s			19:02s	19:09s	18:58t	
08/18/2019 Sun	20:22et	20:43r				23:28s	21:08t
08/19/2019 M	3:32mt	2:43t	3:41r				1:37s
08/19/2019 M	5:01r	8:52s	10:59t	5:07r	5:24r		
08/19/2019 M	11:57t		18:17s	12:05t	12:16t	14:24r	16:35r
08/19/2019 M	18:52s			19:01s	19:06s	18:54t	
08/19/2019 M	20:20et	21:05r				23:24s	21:04t
08/20/2019 Tu	3:34mt	3:24t	3:46r				1:32s
08/20/2019 Tu	5:02r	9:52s	11:03t	5:10r	5:24r		
08/20/2019 Tu	11:57t		18:19s	12:05t	12:14t	14:20r	16:31r
08/20/2019 Tu	18:50s			19:00s	19:04s	18:50t	
08/20/2019 Tu	20:18et	21:29r				23:20s	20:59t
08/21/2019 W	3:35mt	4:06t	3:51r				1:28s
08/21/2019 W	5:03r	10:54s	11:06t	5:12r	5:23r		
08/21/2019 W	11:56t		18:21s	12:06t	12:13t	14:17r	16:27r
08/21/2019 W	18:48s			18:59s	19:02s	18:47t	
08/21/2019 W	20:16et	21:55r				23:16s	20:55t
08/22/2019 Th	3:37mt	4:51t	3:56r				1:24s
08/22/2019 Th	5:05r		11:10t	5:15r	5:23r		
08/22/2019 Th	11:56t	11:57s	18:23s	12:07t	12:11t	14:13r	16:22r
08/22/2019 Th	18:47s			18:58s	18:59s	18:43t	
08/22/2019 Th	20:14et	22:23r				23:13s	20:51t
08/23/2019 F	3:38mt		4:02r				1:20s
08/23/2019 F	5:06r	5:38t		5:17r	5:22r		
08/23/2019 F	11:56t	7:56LQ	11:14t	12:08t	12:10t		
08/23/2019 F		13:02s	18:24s			14:09r	16:18r
08/23/2019 F	18:45s			18:57s	18:57s	18:39t	
08/23/2019 F	20:12et	22:57r				23:09s	20:47t
08/24/2019 Sat	3:40mt		4:08r				1:16s
08/24/2019 Sat	5:07r	6:28t	11:18t	5:20r	5:21r		
08/24/2019 Sat	11:56t	14:07s	18:26s	12:09t	12:08t	14:05r	16:14r
08/24/2019 Sat	18:43s			18:56s	18:54s	18:35t	
08/24/2019 Sat	20:10et	23:39r				23:05s	20:43t
08/25/2019 Sun	3:42mt		4:15r				1:12s
08/25/2019 Sun	5:08r	7:23t	11:22t	5:23r	5:21r		
08/25/2019 Sun	11:55t	15:12s	18:27s	12:09t	12:06t	14:02r	16:10r
08/25/2019 Sun	18:42s			18:55s	18:52s	18:31t	
08/25/2019 Sun	20:08et					23:01s	20:39t
08/26/2019 M	3:43mt	0:29r	4:21r				1:08s
08/26/2019 M	5:09r	8:21t	11:25t	5:25r	5:20r		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/26/2019 M	11:55t	16:13s		12:10t	12:05t	13:58r	16:06r
08/26/2019 M	18:40s		18:28s	18:54s	18:49s	18:28t	
08/26/2019 M	20:06et					22:57s	20:35t
08/27/2019 Tu	3:44mt	1:30r	4:28r				1:04s
08/27/2019 Tu	5:10r	9:21t	11:29t	5:28r	5:20r		
08/27/2019 Tu	11:55t	17:08s		12:11t	12:03t	13:54r	16:02r
08/27/2019 Tu	18:38s		18:29s	18:53s	18:47s	18:24t	
08/27/2019 Tu	20:04et					22:54s	20:31t
08/28/2019 W	3:46mt	2:40r	4:34r				0:59s
08/28/2019 W	5:12r	10:22t	11:33t	5:30r	5:19r		
08/28/2019 W	11:54t	17:55s		12:12t	12:02t	13:51r	15:58r
08/28/2019 W	18:36s		18:30s	18:52s	18:44s	18:20t	
08/28/2019 W	20:02et					22:50s	20:27t
08/29/2019 Th	3:47mt	3:56r	4:41r				0:55s
08/29/2019 Th	5:13r	11:22t	11:37t	5:33r	5:19r		
08/29/2019 Th	11:54t			12:12t	12:00t	13:47r	15:54r
08/29/2019 Th	18:35s	18:36s	18:31s	18:50s	18:42s	18:17t	
08/29/2019 Th	20:00et					22:46s	20:23t
08/30/2019 F	3:49mt	3:37NM	4:47r				0:51s
08/30/2019 F	5:14r	5:16r	11:40t	5:36r	5:18r		
08/30/2019 F	11:54t	12:20t		12:13t	11:59t	13:43r	15:50r
08/30/2019 F	18:33s	19:11s	18:32s	18:49s	18:39s	18:13t	
08/30/2019 F	19:58et					22:42s	20:19t
08/31/2019 Sat	3:50mt		4:54r				0:47s
08/31/2019 Sat	5:15r	6:35r	11:44t	5:38r	5:17r		
08/31/2019 Sat	11:53t	13:15t		12:14t	11:57t	13:40r	15:46r
08/31/2019 Sat	18:31s	19:43s	18:32s	18:48s	18:36s	18:09t	
08/31/2019 Sat	19:55et					22:39s	20:15t
09/01/2019 Sun	3:52mt		5:00r				0:43s
09/01/2019 Sun	5:16r	7:54r	11:47t	5:41r	5:17r		
09/01/2019 Sun	11:53t	14:09t		12:14t	11:56t	13:36r	15:42r
09/01/2019 Sun	18:29s		18:33s	18:47s	18:34s	18:06t	
09/01/2019 Sun	19:53et	20:12s				22:35s	20:10t
09/02/2019 M	3:53mt		5:07r		5:16r		0:39s
09/02/2019 M	5:17r	9:10r	11:51t	5:43r			
09/02/2019 M	11:53t	15:01t		12:15t	11:54t	13:32r	15:38r
09/02/2019 M	18:28s		18:33s	18:46s	18:31s	18:02t	
09/02/2019 M	19:51et	20:42s				22:31s	20:06t
09/03/2019 Tu	3:55mt		5:13r		5:16r		0:35s
09/03/2019 Tu	5:18r	10:24r		5:46r	11:53t		
09/03/2019 Tu	11:53t	15:53t	11:54t	12:16t		13:29r	15:34r
09/03/2019 Tu	18:26s		18:33s	18:44s	18:29s	17:58t	
09/03/2019 Tu	19:49et	21:13s				22:28s	20:02t
09/04/2019 W	3:56mt				5:15r		0:31s
09/04/2019 W	5:20r	11:36r	5:20r	5:49r	11:51t		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/04/2019 W	11:52t	16:45t	11:57t	12:16t		13:25r	15:30r
09/04/2019 W	18:24s		18:33s	18:43s	18:26s	17:55t	
09/04/2019 W	19:47et	21:47s				22:24s	19:58t
09/05/2019 Th	3:57mt				5:14r		0:27s
09/05/2019 Th	5:21r		5:26r	5:51r	11:49t		
09/05/2019 Th	11:52t	12:45r	12:00t	12:17t		13:22r	15:26r
09/05/2019 Th	18:22s	17:37t	18:33s	18:42s	18:24s	17:51t	
09/05/2019 Th	19:45et	20:10FQ				22:20s	19:54t
09/05/2019 Th		22:24s					
09/06/2019 F	3:59mt				5:14r		0:23s
09/06/2019 F	5:22r		5:32r	5:54r	11:48t		
09/06/2019 F	11:52t	13:48r	12:03t	12:18t		13:18r	15:22r
09/06/2019 F	18:20s	18:29t	18:33s	18:40s	18:21s	17:47t	
09/06/2019 F	19:43et	23:07s				22:17s	19:50t
09/07/2019 Sat	4:00mt				5:13r		0:19s
09/07/2019 Sat	5:23r		5:38r	5:56r	11:46t		
09/07/2019 Sat	11:51t	14:46r	12:06t	12:18t		13:15r	15:18r
09/07/2019 Sat	18:19s	19:21t	18:33s	18:39s	18:19s	17:44t	
09/07/2019 Sat	19:41et	23:55s				22:13s	19:46t
09/08/2019 Sun	4:02mt				5:13r		0:15s
09/08/2019 Sun	5:24r		5:44r	5:59r	11:45t		
09/08/2019 Sun	11:51t	15:38r	12:09t	12:19t		13:11r	15:14r
09/08/2019 Sun	18:17s		18:33s	18:38s	18:16s	17:40t	
09/08/2019 Sun	19:39et	20:12t				22:09s	19:42t
09/09/2019 M	4:03mt	0:48s			5:12r		0:11s
09/09/2019 M	5:25r		5:50r	6:02r	11:43t		
09/09/2019 M	11:51t	16:21r	12:12t	12:19t		13:08r	15:10r
09/09/2019 M	18:15s		18:32s	18:36s	18:14s	17:37t	
09/09/2019 M	19:37et	21:02t				22:06s	19:38t
09/10/2019 Tu	4:04mt	1:45s			5:12r		0:07s
09/10/2019 Tu	5:26r		5:56r	6:04r	11:42t		
09/10/2019 Tu	11:50t	16:59r	12:14t	12:20t		13:04r	15:06r
09/10/2019 Tu	18:13s		18:32s	18:35s	18:11s	17:33t	19:34t
09/10/2019 Tu	19:35et	21:49t				22:02s	
09/11/2019 W	4:06mt	2:44s			5:11r		0:03s
09/11/2019 W	5:27r		6:01r	6:07r	11:40t		
09/11/2019 W	11:50t		12:17t	12:21t		13:01r	15:02r
09/11/2019 W	18:11s	17:31r	18:31s	18:34s	18:08s	17:30t	19:30t
09/11/2019 W	19:33et	22:35t				21:59s	23:59s
09/12/2019 Th	4:07mt	3:45s			5:10r		
09/12/2019 Th	5:29r		6:07r	6:09r	11:38t		
09/12/2019 Th	11:49t		12:19t	12:21t		12:57r	14:58r
09/12/2019 Th	18:09s	17:59r	18:30s	18:32s	18:06s	17:26t	19:26t
09/12/2019 Th	19:31et	23:18t				21:55s	23:55s
09/13/2019 F	4:08mt	4:45s			5:10r		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/13/2019 F	5:30r		6:12r	6:12r	11:37t		
09/13/2019 F	11:49t		12:22t	12:22t		12:54r	14:54r
09/13/2019 F	18:08s	18:24r	18:30s	18:31s	18:03s	17:22t	19:22t
09/13/2019 F	19:29et	21:33FM				21:51s	23:51s
09/14/2019 Sat	4:10mt	0:00t			5:09r		
09/14/2019 Sat	5:31r	5:45s	6:18r	6:14r	11:35t		
09/14/2019 Sat	11:49t		12:24t	12:22t		12:50r	14:50r
09/14/2019 Sat	18:06s	18:47r	18:29s	18:29s	18:01s	17:19t	19:19t
09/14/2019 Sat	19:27et					21:48s	23:47s
09/15/2019 Sun	4:11mt	0:42t			5:09r		
09/15/2019 Sun	5:32r	6:45s	6:23r	6:17r	11:34t		
09/15/2019 Sun	11:48t		12:26t	12:23t		12:47r	14:46r
09/15/2019 Sun	18:04s	19:10r	18:28s	18:28s	17:58s	17:15t	19:15t
09/15/2019 Sun	19:25et					21:44s	23:43s
09/16/2019 M	4:12mt	1:23t			5:08r		
09/16/2019 M	5:33r	7:46s	6:28r	6:20r	11:32t		
09/16/2019 M	11:48t		12:28t	12:24t		12:43r	14:42r
09/16/2019 M	18:02s		18:27s	18:27s	17:56s	17:12t	19:11t
09/16/2019 M	19:23et	19:33r				21:41s	23:39s
09/17/2019 Tu	4:14mt	2:05t			5:08r		
09/17/2019 Tu	5:34r	8:47s	6:33r	6:22r	11:30t		
09/17/2019 Tu	11:48t		12:30t	12:24t		12:40r	14:38r
09/17/2019 Tu	18:00s		18:26s	18:25s	17:53s	17:09t	19:07t
09/17/2019 Tu	19:21et	19:58r				21:37s	23:35s
09/18/2019 W	4:15mt	2:48t			5:07r		
09/18/2019 W	5:35r	9:49s	6:38r	6:25r	11:29t		
09/18/2019 W	11:47t		12:32t	12:25t		12:36r	14:34r
09/18/2019 W	17:58s		18:25s	18:24s	17:50s	17:05t	19:03t
09/18/2019 W	19:19et	20:25r				21:34s	23:31s
09/19/2019 Th	4:16mt	3:34t			5:06r		
09/19/2019 Th	5:37r	10:53s	6:43r	6:27r	11:27t		
09/19/2019 Th	11:47t		12:34t	12:25t		12:33r	14:31r
09/19/2019 Th	17:56s		18:24s	18:22s	17:48s	17:02t	18:59t
09/19/2019 Th	19:17et	20:56r				21:30s	23:27s
09/20/2019 F	4:18mt	4:22t			5:06r		
09/20/2019 F	5:38r		6:48r	6:30r	11:26t		
09/20/2019 F	11:47t	11:57s	12:36t	12:26t		12:30r	14:27r
09/20/2019 F	17:55s		18:23s	18:21s	17:45s	16:58t	18:55t
09/20/2019 F	19:15et	21:34r				21:27s	23:23s
09/21/2019 Sat	4:19mt	5:14t			5:05r		
09/21/2019 Sat	5:39r		6:52r	6:32r	11:24t		
09/21/2019 Sat	11:46t	13:01s	12:38t	12:27t		12:26r	14:23r
09/21/2019 Sat	17:53s		18:22s	18:20s	17:43s	16:55t	18:51t
09/21/2019 Sat	19:13et	19:41LQ				21:23s	
09/21/2019 Sat		22:19r					23:19s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/22/2019 Sun	4:20mt				5:05r		
09/22/2019 Sun	5:40r	6:09t	6:57r	6:35r	11:23t		
09/22/2019 Sun	11:46t	14:01s	12:40t	12:27t		12:23r	14:19r
09/22/2019 Sun	17:51s		18:21s	18:18s	17:40s	16:51t	18:47t
09/22/2019 Sun	19:11et	23:13r				21:20s	23:15s
09/23/2019 M	0:50SE						
09/23/2019 M	4:21mt				5:04r		
09/23/2019 M	5:41r	7:06t	7:02r	6:38r	11:21t		
09/23/2019 M	11:46t	14:57s	12:42t	12:28t		12:20r	14:15r
09/23/2019 M	17:49s		18:20s	18:17s	17:37s	16:48t	18:43t
09/23/2019 M	19:09et					21:16s	23:11s
09/24/2019 Tu	4:23mt	0:17r			5:03r		
09/24/2019 Tu	5:42r	8:05t	7:06r	6:40r	11:19t		
09/24/2019 Tu	11:45t	15:46s	12:43t	12:28t		12:16r	14:11r
09/24/2019 Tu	17:47s		18:19s	18:16s	17:35s	16:44t	18:39t
09/24/2019 Tu	19:07et					21:13s	23:08s
09/25/2019 W	4:24mt	1:29r			5:03r		
09/25/2019 W	5:44r	9:04t	7:11r	6:43r	11:18t		
09/25/2019 W	11:45t	16:28s	12:45t	12:29t		12:13r	14:07r
09/25/2019 W	17:45s		18:18s	18:14s	17:32s	16:41t	18:35t
09/25/2019 W	19:05et					21:09s	23:04s
09/26/2019 Th	4:25mt	2:46r			5:02r		
09/26/2019 Th	5:45r	10:02t	7:15r	6:45r	11:16t		
09/26/2019 Th	11:44t		12:46t	12:30t		12:10r	14:03r
09/26/2019 Th	17:43s	17:05s	18:17s	18:13s	17:30s	16:38t	18:32t
09/26/2019 Th	19:03et					21:06s	23:00s
09/27/2019 F	4:26mt	4:05r			5:02r		
09/27/2019 F	5:46r	10:58t	7:19r	6:48r	11:15t		
09/27/2019 F	11:44t		12:48t	12:30t		12:06r	13:59r
09/27/2019 F	17:42s	17:38s	18:15s	18:12s	17:27s	16:34t	18:28t
09/27/2019 F	19:01et					21:02s	22:56s
09/28/2019 Sat	4:28mt	5:24r			5:01r		
09/28/2019 Sat	5:47r	11:26NM	7:24r	6:51r	11:13t		
09/28/2019 Sat	11:44t	11:53t	12:50t	12:31t		12:03r	13:56r
09/28/2019 Sat	17:40s	18:08s	18:14s	18:10s	17:24s	16:31t	18:24t
09/28/2019 Sat	18:59et					20:59s	22:52s
09/29/2019 Sun	4:29mt				5:01r		
09/29/2019 Sun	5:48r	6:43r	7:28r	6:53r	11:11t		
09/29/2019 Sun	11:43t	12:46t	12:51t	12:31t		12:00r	13:52r
09/29/2019 Sun	17:38s	18:38s	18:13s	18:09s	17:22s	16:28t	18:20t
09/29/2019 Sun	18:57et					20:55s	22:48s
09/30/2019 M	4:30mt				5:00r		
09/30/2019 M	5:49r	8:00r	7:32r	6:56r	11:10t		
09/30/2019 M	11:43t	13:40t	12:53t	12:32t		11:56r	13:48r
09/30/2019 M	17:36s		18:12s	18:08s	17:19s	16:24t	18:16t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/30/2019 M	18:55et	19:09s				20:52s	22:44s
10/01/2019 Tu	4:31mt				4:59r		
10/01/2019 Tu	5:51r	9:16r	7:36r	6:58r	11:08t		
10/01/2019 Tu	11:43t	14:33t	12:54t	12:33t		11:53r	13:44r
10/01/2019 Tu	17:34s		18:11s	18:06s	17:17s	16:21t	18:12t
10/01/2019 Tu	18:53et	19:42s				20:49s	22:41s
10/02/2019 W	4:33mt				4:59r		
10/02/2019 W	5:52r	10:29r	7:40r	7:01r	11:07t		
10/02/2019 W	11:43t	15:27t	12:55t	12:33t		11:50r	13:40r
10/02/2019 W	17:32s		18:09s	18:05s	17:14s	16:18t	18:08t
10/02/2019 W	18:52et	20:19s				20:45s	22:37s
10/03/2019 Th	4:34mt				4:58r		
10/03/2019 Th	5:53r	11:37r	7:44r	7:04r	11:05t		
10/03/2019 Th	11:42t		12:57t	12:34t		11:47r	13:36r
10/03/2019 Th	17:31s	16:21t	18:08s	18:04s	17:12s	16:14t	18:05t
10/03/2019 Th	18:50et	21:01s				20:42s	22:33s
10/04/2019 F	4:35mt				4:58r		
10/04/2019 F	5:54r		7:48r	7:06r	11:04t		
10/04/2019 F	11:42t	12:40r	12:58t	12:35t		11:43r	13:33r
10/04/2019 F	17:29s	17:15t	18:07s	18:02s	17:09s	16:11t	18:01t
10/04/2019 F	18:48et	21:48s				20:38s	22:29s
10/05/2019 Sat	4:36mt				4:57r		
10/05/2019 Sat	5:55r	9:47FQ	7:52r	7:09r	11:02t	11:40r	
10/05/2019 Sat	11:42t	13:34r	12:59t	12:36t	17:06s	16:08t	13:29r
10/05/2019 Sat	17:27s	18:07t	18:06s	18:01s			17:57t
10/05/2019 Sat	18:46et	22:41s				20:35s	22:25s
10/06/2019 Sun	4:37mt				4:56r		
10/06/2019 Sun	5:57r		7:55r	7:12r	11:00t	11:37r	
10/06/2019 Sun	11:41t	14:21r	13:00t	12:36t	17:04s	16:04t	13:25r
10/06/2019 Sun	17:25s		18:05s	18:00s			17:53t
10/06/2019 Sun	18:44et	18:58t				20:32s	22:22s
10/06/2019 Sun		23:37s					
10/07/2019 M	4:39mt				4:56r		
10/07/2019 M	5:58r		7:59r	7:14r	10:59t	11:34r	
10/07/2019 M	11:41t	15:01r	13:02t	12:37t	17:01s	16:01t	13:21r
10/07/2019 M	17:23s		18:03s	17:59s			17:49t
10/07/2019 M	18:42et	19:46t				20:28s	22:18s
10/08/2019 Tu	4:40mt	0:36s			4:55r		
10/08/2019 Tu	5:59r		8:02r	7:17r	10:57t	11:31r	
10/08/2019 Tu	11:41t	15:34r	13:03t	12:38t	16:59s	15:58t	13:17r
10/08/2019 Tu	17:22s		18:02s	17:58s			17:46t
10/08/2019 Tu	18:41et	20:32t				20:25s	22:14s
10/09/2019 W	4:41mt	1:37s			4:55r		
10/09/2019 W	6:00r		8:06r	7:20r	10:56t	11:27r	
10/09/2019 W	11:40t	16:03r	13:04t	12:38t	16:56s	15:55t	13:13r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/09/2019 W	17:20s		18:01s	17:57s			17:42t
10/09/2019 W	18:39et	21:16t				20:22s	22:10s
10/10/2019 Th	4:42mt	2:37s			4:54r		
10/10/2019 Th	6:01r		8:09r	7:22r	10:54t	11:24r	
10/10/2019 Th	11:40t	16:29r	13:05t	12:39t	16:53s	15:51t	13:10r
10/10/2019 Th	17:18s		18:00s	17:55s			17:38t
10/10/2019 Th	18:37et	21:59t				20:18s	22:06s
10/11/2019 F	4:44mt	3:37s			4:54r		
10/11/2019 F	6:03r		8:12r	7:25r	10:52t	11:21r	
10/11/2019 F	11:40t	16:52r	13:06t	12:40t	16:51s	15:48t	13:06r
10/11/2019 F	17:16s		17:58s	17:54s			17:34t
10/11/2019 F	18:35et	22:41t				20:15s	22:03s
10/12/2019 Sat	4:45mt	4:38s			4:53r		
10/12/2019 Sat	6:04r		8:15r	7:28r	10:51t	11:18r	
10/12/2019 Sat	11:40t		13:07t	12:41t	16:48s	15:45t	13:02r
10/12/2019 Sat	17:15s	17:15r	17:57s	17:53s			17:31t
10/12/2019 Sat	18:34et	23:22t				20:12s	21:59s
10/13/2019 Sun	4:46mt	5:39s			4:52r		
10/13/2019 Sun	6:05r		8:18r	7:30r	10:49t	11:15r	
10/13/2019 Sun	11:39t	14:08FM	13:08t	12:42t	16:46s	15:42t	12:58r
10/13/2019 Sun	17:13s	17:38r	17:56s	17:52s			17:27t
10/13/2019 Sun	18:32et					20:08s	21:55s
10/14/2019 M	4:47mt	0:04t			4:52r		
10/14/2019 M	6:06r	6:40s	8:21r	7:33r	10:48t	11:12r	
10/14/2019 M	11:39t		13:08t	12:42t	16:43s	15:38t	12:55r
10/14/2019 M	17:11s	18:02r	17:55s	17:51s			17:23t
10/14/2019 M	18:30et					20:05s	21:51s
10/15/2019 Tu	4:48mt	0:47t			4:51r		
10/15/2019 Tu	6:08r	7:43s	8:24r	7:36r	10:46t	11:08r	
10/15/2019 Tu	11:39t		13:09t	12:43t	16:40s	15:35t	12:51r
10/15/2019 Tu	17:10s	18:28r	17:53s	17:50s			17:19t
10/15/2019 Tu	18:29et					20:02s	21:48s
10/16/2019 W	4:49mt	1:32t			4:51r		
10/16/2019 W	6:09r	8:46s	8:26r	7:38r	10:45t	11:05r	
10/16/2019 W	11:39t		13:10t	12:44t	16:38s	15:32t	12:47r
10/16/2019 W	17:08s		17:52s	17:49s			17:16t
10/16/2019 W	18:27et	18:58r				19:59s	21:44s
10/17/2019 Th	4:51mt	2:20t			4:50r		
10/17/2019 Th	6:10r	9:51s	8:29r	7:41r	10:43t	11:02r	
10/17/2019 Th	11:39t		13:10t	12:45t	16:35s	15:29t	12:43r
10/17/2019 Th	17:06s		17:51s	17:48s			17:12t
10/17/2019 Th	18:26et	19:33r				19:55s	21:40s
10/18/2019 F	4:52mt	3:10t			4:50r		
10/18/2019 F	6:11r	10:55s	8:31r	7:44r	10:41t	10:59r	
10/18/2019 F	11:38t		13:10t	12:46t	16:33s	15:25t	12:40r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/18/2019 F	17:05s		17:49s	17:47s			17:08t
10/18/2019 F	18:24et	20:15r				19:52s	21:37s
10/19/2019 Sat	4:53mt	4:03t			4:49r		
10/19/2019 Sat	6:13r		8:32r	7:46r	10:40t	10:56r	
10/19/2019 Sat	11:38t	11:56s	13:11t	12:47t	16:30s	15:22t	12:36r
10/19/2019 Sat	17:03s		17:48s	17:47s			17:04t
10/19/2019 Sat	18:22et	21:05r				19:49s	21:33s
10/20/2019 Sun	4:54mt	4:59t			4:49r		
10/20/2019 Sun	6:14r		8:34r	7:49r	10:38t	10:53r	
10/20/2019 Sun	11:38t	12:52s	13:11t	12:48t	16:28s	15:19t	12:32r
10/20/2019 Sun	17:01s		17:47s	17:46s			17:01t
10/20/2019 Sun	18:21et	22:04r				19:45s	21:29s
10/21/2019 M	4:55mt	5:39LQ			4:48r		
10/21/2019 M	6:15r	5:56t	8:35r	7:52r	10:37t	10:50r	
10/21/2019 M	11:38t	13:42s	13:10t	12:49t	16:25s	15:16t	12:28r
10/21/2019 M	17:00s		17:45s	17:45s			16:57t
10/21/2019 M	18:19et	23:11r				19:42s	21:26s
10/22/2019 Tu	4:57mt				4:47r		
10/22/2019 Tu	6:17r	6:53t	8:36r	7:55r	10:35t	10:47r	
10/22/2019 Tu	11:38t	14:25s	13:10t	12:50t	16:23s	15:13t	12:25r
10/22/2019 Tu	16:58s		17:43s	17:44s			16:53t
10/22/2019 Tu	18:18et					19:39s	21:22s
10/23/2019 W	4:58mt	0:24r			4:47r		
10/23/2019 W	6:18r	7:49t	8:37r	7:57r	10:34t	10:43r	
10/23/2019 W	11:37t	15:02s	13:10t	12:51t	16:20s	15:10t	12:21r
10/23/2019 W	16:57s		17:42s	17:44s			16:50t
10/23/2019 W	18:16et					19:36s	21:18s
10/24/2019 Th	4:59mt	1:40r			4:46r		
10/24/2019 Th	6:19r	8:44t	8:37r	8:00r	10:32t	10:40r	
10/24/2019 Th	11:37t	15:35s	13:09t	12:52t	16:17s	15:06t	12:17r
10/24/2019 Th	16:55s		17:40s	17:43s			16:46t
10/24/2019 Th	18:15et					19:33s	21:15s
10/25/2019 F	5:00mt	2:57r			4:46r		
10/25/2019 F	6:20r	9:37t	8:37r	8:03r	10:31t	10:37r	
10/25/2019 F	11:37t	16:05s	13:08t	12:53t	16:15s	15:03t	12:14r
10/25/2019 F	16:53s		17:38s	17:42s			16:42t
10/25/2019 F	18:14et					19:29s	21:11s
10/26/2019 Sat	5:01mt	4:14r			4:45r		
10/26/2019 Sat	6:22r	10:30t	8:36r	8:05r	10:29t	10:34r	
10/26/2019 Sat	11:37t	16:35s	13:06t	12:54t	16:12s	15:00t	12:10r
10/26/2019 Sat	16:52s		17:36s	17:42s			16:39t
10/26/2019 Sat	18:12et					19:26s	21:07s
10/27/2019 Sun	5:03mt	5:32r			4:45r		
10/27/2019 Sun	6:23r	11:23t	8:35r	8:08r	10:27t	10:31r	
10/27/2019 Sun	11:37t		13:04t	12:55t	16:10s	14:57t	12:06r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/27/2019 Sun	16:50s	17:04s	17:34s	17:41s			16:35t
10/27/2019 Sun	18:11et	20:38NM				19:23s	21:04s
10/28/2019 M	5:04mt				4:44r		
10/28/2019 M	6:24r	6:49r	8:33r	8:11r	10:26t	10:28r	
10/28/2019 M	11:37t	12:17t	13:02t	12:56t	16:07s	14:54t	12:02r
10/28/2019 M	16:49s	17:36s	17:31s	17:41s			16:31t
10/28/2019 M	18:09et					19:20s	21:00s
10/29/2019 Tu	5:05mt				4:44r		
10/29/2019 Tu	6:26r	8:05r	8:31r	8:14r	10:24t	10:25r	
10/29/2019 Tu	11:37t	13:12t	12:59t	12:57t	16:05s	14:51t	11:59r
10/29/2019 Tu	16:48s		17:28s	17:40s			16:28t
10/29/2019 Tu	18:08et	18:11s				19:17s	20:56s
10/30/2019 W	5:06mt				4:43r		
10/30/2019 W	6:27r	9:18r	8:27r	8:16r	10:23t	10:22r	
10/30/2019 W	11:37t	14:07t	12:56t	12:58t	16:02s	14:48t	11:55r
10/30/2019 W	16:46s		17:25s	17:40s			16:24t
10/30/2019 W	18:07et	18:51s				19:13s	20:53s
10/31/2019 Th	5:07mt				4:43r		
10/31/2019 Th	6:28r	10:25r	8:23r	8:19r	10:21t	10:19r	
10/31/2019 Th	11:37t	15:03t	12:53t	13:00t	16:00s	14:45t	11:51r
10/31/2019 Th	16:45s		17:22s	17:40s			16:20t
10/31/2019 Th	18:06et	19:37s				19:10s	20:49s
11/01/2019 F	5:09mt				4:42r		
11/01/2019 F	6:30r	11:25r	8:19r	8:22r	10:20t	10:16r	
11/01/2019 F	11:37t	15:57t	12:48t	13:01t	15:57s	14:41t	11:48r
11/01/2019 F	16:43s		17:19s	17:40s			16:17t
11/01/2019 F	18:04et	20:29s				19:07s	20:45s
11/02/2019 Sat	5:10mt				4:41r		
11/02/2019 Sat	6:31r		8:13r	8:24r	10:18t	10:13r	
11/02/2019 Sat	11:37t	12:17r	12:44t	13:02t	15:55s	14:38t	11:44r
11/02/2019 Sat	16:42s	16:50t	17:15s	17:39s			16:13t
11/02/2019 Sat	18:03et	21:26s				19:04s	20:42s
11/03/2019 Sun	5:11mt				4:41r		
11/03/2019 Sun	6:32r		8:06r	8:27r	10:17t	10:10r	
11/03/2019 Sun	11:37t	13:00r	12:38t	13:03t	15:52s	14:35t	11:40r
11/03/2019 Sun	16:41s	17:40t	17:11s	17:39s			16:09t
11/03/2019 Sun	18:02et	22:25s				19:01s	20:38s
11/04/2019 M	5:12mt	3:23FQ			4:40r		
11/04/2019 M	6:34r		7:59r	8:29r	10:15t	10:07r	
11/04/2019 M	11:37t	13:36r	12:32t	13:05t	15:50s	14:32t	11:37r
11/04/2019 M	16:39s		17:06s	17:39s			16:06t
11/04/2019 M	18:01et	18:28t				18:58s	20:35s
11/04/2019 M		23:26s					
11/05/2019 Tu	5:13mt				4:40r		
11/05/2019 Tu	6:35r		7:51r	8:32r	10:14t	10:04r	11:33r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/05/2019 Tu	11:37t	14:07r	12:26t	13:06t	15:47s	14:29t	16:02t
11/05/2019 Tu	16:38s		17:01s	17:39s			
11/05/2019 Tu	18:00et	19:13t				18:55s	20:31s
11/06/2019 W	5:14mt	0:27s			4:39r		
11/06/2019 W	6:36r		7:41r	8:35r	10:12t	10:01r	11:29r
11/06/2019 W	11:37t	14:33r	12:18t	13:07t	15:45s	14:26t	15:58t
11/06/2019 W	16:37s		16:56s	17:39s			
11/06/2019 W	17:59et	19:56t				18:51s	20:28s
11/07/2019 Th	5:16mt	1:27s			4:39r		
11/07/2019 Th	6:38r		7:31r	8:37r	10:11t	9:58r	11:26r
11/07/2019 Th	11:37t	14:57r	12:11t	13:08t	15:42s	14:23t	15:55t
11/07/2019 Th	16:36s		16:51s	17:39s			
11/07/2019 Th	17:58et	20:38t				18:48s	20:24s
11/08/2019 F	5:17mt	2:28s			4:38r		
11/08/2019 F	6:39r		7:20r	8:40r	10:09t	9:55r	11:22r
11/08/2019 F	11:37t	15:20r	12:02t	13:10t	15:40s	14:20t	15:51t
11/08/2019 F	16:34s		16:45s	17:39s			
11/08/2019 F	17:56et	21:19t				18:45s	20:20s
11/09/2019 Sat	5:18mt	3:28s			4:38r		
11/09/2019 Sat	6:40r		7:09r	8:42r	10:08t	9:52r	11:19r
11/09/2019 Sat	11:37t	15:42r	11:54t	13:11t	15:37s	14:17t	15:48t
11/09/2019 Sat	16:33s		16:39s	17:40s			
11/09/2019 Sat	17:55et	22:01t				18:42s	20:17s
11/10/2019 Sun	5:19mt	4:30s			4:37r		
11/10/2019 Sun	6:42r		6:57r	8:45r	10:06t	9:49r	11:15r
11/10/2019 Sun	11:37t	16:05r	11:45t	13:12t	15:35s	14:14t	15:44t
11/10/2019 Sun	16:32s		16:34s	17:40s			
11/10/2019 Sun	17:55et	22:44t				18:39s	20:13s
11/11/2019 M	5:20mt	5:32s			4:37r		
11/11/2019 M	6:43r		6:45r	8:47r	10:05t	9:46r	11:11r
11/11/2019 M	11:37t		11:36t	13:14t	15:32s	14:11t	15:40t
11/11/2019 M	16:31s	16:31r	16:28s	17:40s			
11/11/2019 M	17:54et	23:28t				18:36s	20:10s
11/12/2019 Tu	5:21mt	6:34FM	6:34r		4:36r		
11/12/2019 Tu	6:44r	6:37s	11:27t	8:49r	10:03t	9:43r	11:08r
11/12/2019 Tu	11:37t		16:22s	13:15t	15:30s	14:08t	15:37t
11/12/2019 Tu	16:30s	16:59r		17:41s			
11/12/2019 Tu	17:53et					18:33s	20:06s
11/13/2019 W	5:23mt	0:16t	6:22r		4:36r		
11/13/2019 W	6:46r	7:42s	11:19t	8:52r	10:02t	9:40r	11:04r
11/13/2019 W	11:37t		16:17s	13:17t	15:27s	14:05t	15:33t
11/13/2019 W	16:29s	17:33r		17:41s			
11/13/2019 W	17:52et					18:30s	20:03s
11/14/2019 Th	5:24mt	1:06t	6:11r		4:35r		
11/14/2019 Th	6:47r	8:48s	11:11t	8:54r	10:00t	9:37r	11:00r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/14/2019 Th	11:38t		16:11s	13:18t	15:25s	14:02t	15:30t
11/14/2019 Th	16:28s			17:42s			
11/14/2019 Th	17:51et	18:13r				18:27s	19:59s
11/15/2019 F	5:25mt	1:59t	6:01r		4:35r		
11/15/2019 F	6:48r	9:51s	11:03t	8:56r	9:59t	9:34r	10:57r
11/15/2019 F	11:38t		16:06s	13:19t	15:23s	13:59t	15:26t
11/15/2019 F	16:27s			17:42s			
11/15/2019 F	17:50et	19:01r				18:24s	19:56s
11/16/2019 Sat	5:26mt	2:55t	5:52r		4:34r		
11/16/2019 Sat	6:49r	10:50s	10:56t	8:58r	9:57t	9:31r	10:53r
11/16/2019 Sat	11:38t		16:01s	13:21t	15:20s	13:56t	15:23t
11/16/2019 Sat	16:26s			17:43s			
11/16/2019 Sat	17:49et	19:58r				18:21s	19:52s
11/17/2019 Sun	5:27mt	3:52t	5:43r		4:34r		
11/17/2019 Sun	6:51r		10:50t	9:01r	9:56t	9:28r	10:50r
11/17/2019 Sun	11:38t	11:42s	15:57s	13:22t	15:18s	13:53t	15:19t
11/17/2019 Sun	16:25s			17:44s			
11/17/2019 Sun	17:49et	21:02r				18:18s	19:49s
11/18/2019 M	5:28mt	4:48t	5:36r		4:33r		
11/18/2019 M	6:52r		10:44t	9:03r	9:55t	9:25r	10:46r
11/18/2019 M	11:38t	12:26s	15:53s	13:24t	15:15s	13:50t	15:16t
11/18/2019 M	16:24s			17:45s			
11/18/2019 M	17:48et	22:12r				18:14s	19:45s
11/19/2019 Tu	5:29mt	5:44t	5:30r		4:33r		
11/19/2019 Tu	6:53r		10:39t	9:05r	9:53t	9:22r	10:42r
11/19/2019 Tu	11:39t	13:04s		13:25t		13:47t	
11/19/2019 Tu	16:23s	14:11LQ	15:49s	17:46s	15:13s		15:12t
11/19/2019 Tu	17:47et	23:25r				18:11s	19:42s
11/20/2019 W	5:30mt	6:37t	5:25r		4:32r		
11/20/2019 W	6:55r		10:35t	9:07r	9:52t	9:19r	10:39r
11/20/2019 W	11:39t	13:37s	15:45s	13:27t	15:10s	13:44t	15:08t
11/20/2019 W	16:22s			17:47s			
11/20/2019 W	17:47et					18:08s	19:38s
11/21/2019 Th	5:32mt	0:39r	5:21r		4:32r		
11/21/2019 Th	6:56r	7:29t	10:31t	9:09r	9:50t	9:16r	10:35r
11/21/2019 Th	11:39t	14:07s	15:42s	13:28t	15:08s	13:41t	15:05t
11/21/2019 Th	16:22s						
11/21/2019 Th	17:46et			17:48s		18:05s	19:35s
11/22/2019 F	5:33mt	1:54r	5:18r		4:31r		
11/22/2019 F	6:57r	8:20t	10:29t	9:11r	9:49t	9:13r	10:32r
11/22/2019 F	11:39t	14:35s	15:39s	13:30t	15:06s	13:38t	15:01t
11/22/2019 F	16:21s						
11/22/2019 F	17:45et			17:49s		18:02s	19:31s
11/23/2019 Sat	5:34mt	3:09r	5:16r		4:31r		
11/23/2019 Sat	6:58r	9:11t	10:26t	9:13r	9:47t	9:10r	10:28r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/23/2019 Sat	11:40t	15:03s	15:37s	13:31t	15:03s	13:35t	14:58t
11/23/2019 Sat	16:20s						
11/23/2019 Sat	17:45et			17:50s		17:59s	19:28s
11/24/2019 Sun	5:35mt	4:24r	5:14r		4:31r		
11/24/2019 Sun	7:00r	10:03t	10:24t	9:14r	9:46t	9:07r	10:24r
11/24/2019 Sun	11:40t	15:32s	15:34s	13:33t	15:01s	13:32t	14:54t
11/24/2019 Sun	16:20s						
11/24/2019 Sun	17:44et			17:51s		17:56s	19:24s
11/25/2019 M	5:36mt	5:40r	5:14r		4:30r		
11/25/2019 M	7:01r	10:56t	10:23t	9:16r	9:45t	9:04r	10:21r
11/25/2019 M	11:40t	16:05s	15:32s	13:34t	14:59s	13:29t	14:51t
11/25/2019 M	16:19s						
11/25/2019 M	17:44et			17:52s		17:53s	19:21s
11/26/2019 Tu	5:37mt	6:54r	5:14r		4:30r		
11/26/2019 Tu	7:02r	8:06NM	10:22t	9:18r	9:43t	9:01r	10:17r
11/26/2019 Tu	11:40t	11:51t	15:30s	13:36t	14:56s	13:26t	14:47t
11/26/2019 Tu	16:18s	16:42s					
11/26/2019 Tu	17:44et			17:54s		17:50s	19:17s
11/27/2019 W	5:38mt		5:15r		4:29r		
11/27/2019 W	7:03r	8:05r	10:22t	9:20r	9:42t	8:58r	10:14r
11/27/2019 W	11:41t	12:47t	15:29s	13:37t	14:54s	13:23t	14:44t
11/27/2019 W	16:18s	17:25s					
11/27/2019 W	17:43et			17:55s		17:47s	19:14s
11/28/2019 Th	5:39mt		5:16r		4:29r		
11/28/2019 Th	7:05r	9:10r	10:22t	9:21r	9:40t	8:55r	10:10r
11/28/2019 Th	11:41t	13:43t	15:27s	13:39t	14:52s	13:20t	14:40t
11/28/2019 Th	16:17s						
11/28/2019 Th	17:43et	18:15s		17:57s		17:44s	19:10s
11/29/2019 F	5:40mt		5:18r		4:28r		
11/29/2019 F	7:06r	10:07r	10:22t	9:23r	9:39t	8:52r	10:07r
11/29/2019 F	11:41t	14:38t	15:26s	13:40t	14:49s	13:17t	14:37t
11/29/2019 F	16:17s					17:41s	
11/29/2019 F	17:43et	19:10s		17:58s			19:07s
11/30/2019 Sat	5:41mt		5:20r		4:28r		
11/30/2019 Sat	7:07r	10:55r	10:23t	9:24r	9:38t	8:49r	10:03r
11/30/2019 Sat	11:42t	15:31t	15:25s	13:42t	14:47s	13:14t	14:33t
11/30/2019 Sat	16:17s					17:38s	
11/30/2019 Sat	17:42et	20:10s		18:00s			19:03s
12/01/2019 Sun	5:42mt		5:22r		4:27r		
12/01/2019 Sun	7:08r	11:35r	10:23t	9:25r	9:36t	8:46r	9:59r
12/01/2019 Sun	11:42t		15:24s	13:43t	14:45s	13:11t	14:30t
12/01/2019 Sun	16:16s	16:21t				17:35s	
12/01/2019 Sun	17:42et	21:12s		18:02s			19:00s
12/02/2019 M	5:43mt		5:25r		4:27r		
12/02/2019 M	7:09r		10:24t	9:27r	9:35t	8:43r	9:56r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/02/2019 M	11:43t	12:08r	15:23s	13:45t	14:42s	13:08t	14:26t
12/02/2019 M	16:16s	17:07t				17:32s	
12/02/2019 M	17:42et	22:13s		18:03s			18:56s
12/03/2019 Tu	5:44mt		5:28r		4:26r		
12/03/2019 Tu	7:10r		10:25t	9:28r	9:33t	8:40r	9:52r
12/03/2019 Tu	11:43t	12:36r	15:22s	13:46t	14:40s	13:05t	14:23t
12/03/2019 Tu	16:16s					17:29s	
12/03/2019 Tu	17:42et	17:52t		18:05s			18:53s
12/03/2019 Tu		23:15s					
12/03/2019 Tu		23:58FQ					
12/04/2019 W	5:45mt		5:31r		4:26r		
12/04/2019 W	7:11r		10:27t	9:29r	9:32t	8:37r	9:49r
12/04/2019 W	11:43t	13:01r	15:22s	13:48t	14:38s	13:02t	14:19t
12/04/2019 W	16:15s					17:26s	
12/04/2019 W	17:42et	18:34t		18:07s			18:50s
12/05/2019 Th	5:46mt	0:15s	5:34r		4:26r		
12/05/2019 Th	7:12r		10:28t	9:30r	9:31t	8:34r	9:45r
12/05/2019 Th	11:44t	13:24r	15:21s	13:49t	14:36s	12:59t	14:16t
12/05/2019 Th	16:15s					17:23s	
12/05/2019 Th	17:42et	19:15t		18:09s			18:46s
12/06/2019 F	5:47mt	1:15s	5:38r		4:25r		
12/06/2019 F	7:13r		10:30t	9:31r	9:29t	8:31r	9:42r
12/06/2019 F	11:44t	13:46r	15:21s	13:51t	14:33s	12:56t	14:12t
12/06/2019 F	16:15s					17:20s	
12/06/2019 F	17:41et	19:56t		18:11s			18:43s
12/07/2019 Sat	5:48mt	2:16s	5:41r		4:25r		
12/07/2019 Sat	7:14r		10:31t	9:32r	9:28t	8:28r	9:38r
12/07/2019 Sat	11:45t	14:08r	15:20s	13:52t	14:31s	12:53t	14:09t
12/07/2019 Sat	16:15s					17:18s	
12/07/2019 Sat	17:41et	20:38t		18:13s			18:39s
12/08/2019 Sun	5:48mt	3:18s	5:45r		4:24r		
12/08/2019 Sun	7:15r		10:33t	9:33r	9:27t	8:25r	9:35r
12/08/2019 Sun	11:45t	14:32r	15:20s	13:54t	14:29s	12:50t	14:05t
12/08/2019 Sun	16:15s					17:15s	
12/08/2019 Sun	17:42et	21:22t		18:15s			18:36s
12/09/2019 M	5:49mt	4:22s	5:49r		4:24r		
12/09/2019 M	7:16r		10:35t	9:34r	9:25t	8:22r	9:31r
12/09/2019 M	11:45t	14:59r	15:20s	13:55t	14:27s	12:47t	14:02t
12/09/2019 M	16:15s					17:12s	
12/09/2019 M	17:42et	22:08t		18:17s			18:33s
12/10/2019 Tu	5:50mt	5:28s	5:53r		4:23r		
12/10/2019 Tu	7:17r		10:37t	9:34r	9:24t	8:20r	9:27r
12/10/2019 Tu	11:46t	15:31r	15:20s	13:57t	14:25s	12:44t	13:58t
12/10/2019 Tu	16:15s					17:09s	
12/10/2019 Tu	17:42et	22:58t		18:19s			18:29s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/11/2019 W	5:51mt	6:34s	5:56r		4:23r		
12/11/2019 W	7:18r		10:39t	9:35r	9:23t	8:17r	9:24r
12/11/2019 W	11:46t	16:08r	15:21s	13:58t	14:22s	12:41t	13:55t
12/11/2019 W	16:15s					17:06s	
12/11/2019 W	17:42et	22:12FM		18:22s			18:26s
12/11/2019 W		23:51t					
12/12/2019 Th	5:52mt		6:00r		4:22r		
12/12/2019 Th	7:19r	7:40s	10:41t	9:36r	9:22t	8:14r	9:20r
12/12/2019 Th	11:47t		15:21s	14:00t	14:20s	12:38t	13:51t
12/12/2019 Th	16:15s	16:54r				17:03s	
12/12/2019 Th	17:42et			18:24s			18:22s
12/13/2019 F	5:52mt	0:47t	6:04r		4:22r		
12/13/2019 F	7:20r	8:42s	10:43t	9:36r	9:20t	8:11r	9:17r
12/13/2019 F	11:47t		15:21s	14:01t	14:18s	12:35t	13:48t
12/13/2019 F	16:15s					17:00s	
12/13/2019 F	17:42et	17:49r		18:26s			18:19s
12/14/2019 Sat	5:53mt	1:45t	6:08r		4:22r		
12/14/2019 Sat	7:20r	9:38s	10:45t	9:36r	9:19t	8:08r	9:13r
12/14/2019 Sat	11:48t		15:22s	14:02t	14:16s	12:32t	13:44t
12/14/2019 Sat	16:15s					16:57s	
12/14/2019 Sat	17:42et	18:52r		18:28s			18:16s
12/15/2019 Sun	5:54mt	2:43t	6:12r		4:21r		
12/15/2019 Sun	7:21r	10:26s	10:48t	9:37r	9:18t	8:05r	9:10r
12/15/2019 Sun	11:48t		15:23s	14:04t	14:14s	12:29t	13:41t
12/15/2019 Sun	16:15s					16:54s	
12/15/2019 Sun	17:43et	20:02r		18:31s			18:12s
12/16/2019 M	5:54mt	3:40t	6:16r		4:21r		
12/16/2019 M	7:22r	11:07s	10:50t	9:37r	9:16t	8:02r	9:06r
12/16/2019 M	11:49t		15:23s	14:05t	14:12s	12:26t	13:37t
12/16/2019 M	16:16s					16:51s	
12/16/2019 M	17:43et	21:15r		18:33s			18:09s
12/17/2019 Tu	5:55mt	4:34t	6:21r		4:20r		
12/17/2019 Tu	7:23r	11:41s	10:53t	9:37r	9:15t	7:59r	9:03r
12/17/2019 Tu	11:49t		15:24s	14:06t	14:09s	12:23t	13:34t
12/17/2019 Tu	16:16s					16:48s	
12/17/2019 Tu	17:43et	22:29r		18:36s			18:05s
12/18/2019 W	5:56mt	5:27t	6:25r		4:20r		
12/18/2019 W	7:23r		10:55t	9:37r	9:14t	7:56r	8:59r
12/18/2019 W	11:50t	12:11s	15:25s	14:08t	14:07s	12:21t	13:31t
12/18/2019 W	16:16s					16:45s	
12/18/2019 W	17:44et	21:57LQ		18:38s			18:02s
12/18/2019 W		23:43r					
12/19/2019 Th	5:56mt	6:17t	6:29r		4:19r		
12/19/2019 Th	7:24r		10:58t	9:38r	9:13t	7:53r	8:56r
12/19/2019 Th	11:50t	12:39s	15:26s	14:09t	14:05s	12:18t	13:27t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/19/2019 Th	16:17s					16:42s	
12/19/2019 Th	17:44et			18:41s			17:59s
12/20/2019 F	5:57mt	0:56r	6:32r		4:19r		
12/20/2019 F	7:24r	7:07t	11:00t	9:38r	9:11t	7:50r	8:52r
12/20/2019 F	11:51t	13:06s	15:28s	14:10t	14:03s	12:15t	13:24t
12/20/2019 F	16:17s					16:39s	
12/20/2019 F	17:45et			18:43s			17:55s
12/21/2019 Sat	5:57mt	2:09r	6:36r		4:19r		
12/21/2019 Sat	7:25r	7:57t	11:03t	9:38r	9:10t	7:47r	8:49r
12/21/2019 Sat	11:51t	13:34s	15:29s	14:11t	14:01s	12:12t	13:20t
12/21/2019 Sat	16:18s					16:37s	
12/21/2019 Sat	17:45et			18:46s			17:52s
12/21/2019 Sat	21:19DS						
12/22/2019 Sun	5:58mt	3:22r	6:40r		4:18r		
12/22/2019 Sun	7:25r	8:47t	11:06t	9:37r	9:09t	7:44r	8:45r
12/22/2019 Sun	11:52t	14:04s	15:31s	14:13t	13:59s	12:09t	13:17t
12/22/2019 Sun	16:18s					16:34s	
12/22/2019 Sun	17:46et			18:48s			17:48s
12/23/2019 M	5:58mt	4:35r	6:44r		4:18r		
12/23/2019 M	7:26r	9:40t	11:08t	9:37r	9:08t	7:41r	8:42r
12/23/2019 M	11:52t	14:38s	15:32s	14:14t	13:57s	12:06t	13:13t
12/23/2019 M	16:19s					16:31s	17:45s
12/23/2019 M	17:46et			18:51s			
12/24/2019 Tu	5:59mt	5:46r	6:48r		4:17r		
12/24/2019 Tu	7:26r	10:34t	11:11t	9:37r	9:06t	7:38r	8:38r
12/24/2019 Tu	11:53t	15:17s	15:34s	14:15t	13:55s	12:03t	13:10t
12/24/2019 Tu	16:19s					16:28s	17:42s
12/24/2019 Tu	17:47et			18:53s			
12/25/2019 W	5:59mt	6:53r	6:52r		4:17r		
12/25/2019 W	7:27r	11:29t	11:14t	9:37r	9:05t	7:35r	8:35r
12/25/2019 W	11:53t	16:03s	15:36s	14:16t	13:53s	12:00t	13:06t
12/25/2019 W	16:20s					16:25s	17:38s
12/25/2019 W	17:47et	22:13NM		18:56s			
12/26/2019 Th	6:00mt		6:55r		4:16r		
12/26/2019 Th	7:27r	7:54r	11:17t	9:36r	9:04t	7:32r	8:31r
12/26/2019 Th	11:54t	12:25t	15:38s	14:17t	13:51s	11:57t	13:03t
12/26/2019 Th	16:20s	16:56s				16:22s	17:35s
12/26/2019 Th	17:48et			18:58s			
12/27/2019 F	6:00mt		6:59r		4:16r		
12/27/2019 F	7:27r	8:46r	11:20t	9:36r	9:03t	7:29r	8:27r
12/27/2019 F	11:54t	13:19t	15:40s	14:18t	13:49s	11:54t	13:00t
12/27/2019 F	16:21s					16:19s	17:32s
12/27/2019 F	17:49et	17:54s		19:01s			
12/28/2019 Sat	6:00mt		7:02r		4:16r	7:26r	
12/28/2019 Sat	7:28r	9:30r	11:22t	9:35r	9:02t	11:51t	8:24r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/28/2019 Sat	11:55t	14:11t	15:42s	14:19t	13:47s	16:16s	12:56t
12/28/2019 Sat	16:22s						17:28s
12/28/2019 Sat	17:49et	18:56s		19:04s			
12/29/2019 Sun	6:01mt		7:06r		4:15r	7:23r	
12/29/2019 Sun	7:28r	10:06r	11:25t	9:35r	9:00t	11:48t	8:20r
12/29/2019 Sun	11:55t	14:59t	15:45s	14:20t	13:45s	16:13s	12:53t
12/29/2019 Sun	16:23s						17:25s
12/29/2019 Sun	17:50et	19:58s		19:06s			
12/30/2019 M	6:01mt		7:09r		4:15r	7:20r	
12/30/2019 M	7:28r	10:37r	11:28t	9:34r	8:59t	11:45t	8:17r
12/30/2019 M	11:56t	15:45t	15:47s	14:21t	13:43s	16:10s	12:49t
12/30/2019 M	16:24s						17:22s
12/30/2019 M	17:51et	21:01s		19:09s			
12/31/2019 Tu	6:01mt		7:12r		4:14r	7:17r	
12/31/2019 Tu	7:28r	11:03r	11:31t	9:34r	8:58t	11:42t	8:13r
12/31/2019 Tu	11:56t		15:50s	14:22t	13:41s	16:08s	12:46t
12/31/2019 Tu	16:24s	16:28t					17:18s
12/31/2019 Tu	17:52et	22:02s		19:12s			
01/01/2020 W	6:01mt		7:16r		4:14r	7:14r	
01/01/2020 W	7:28r	11:27r	11:34t	9:33r	8:57t	11:39t	8:10r
01/01/2020 W	11:57t		15:53s	14:23t	13:40s	16:05s	12:42t
01/01/2020 W	16:25s	17:10t					17:15s
01/01/2020 W	17:52et	23:02s		19:14s			
01/02/2020 Th	6:01mt		7:19r		4:13r	7:11r	
01/02/2020 Th	7:28r	11:49r	11:37t	9:32r	8:56t	11:37t	8:06r
01/02/2020 Th	11:57t		15:56s	14:24t	13:38s	16:02s	12:39t
01/02/2020 Th	16:26s	17:51t					17:11s
01/02/2020 Th	17:53et	21:45FQ		19:17s			
01/03/2020 F	6:01mt	0:02s	7:22r		4:13r	7:08r	
01/03/2020 F	7:28r		11:40t	9:32r	8:55t	11:34t	8:03r
01/03/2020 F	11:58t	12:11r	15:59s	14:25t	13:36s	15:59s	12:35t
01/03/2020 F	16:27s						17:08s
01/03/2020 F	17:54et	18:32t		19:20s			
01/04/2020 Sat	6:01mt	1:03s	7:24r		4:13r	7:05r	
01/04/2020 Sat	7:28r		11:43t	9:31r	8:53t	11:31t	7:59r
01/04/2020 Sat	11:58t	12:34r	16:03s	14:26t	13:34s	15:56s	12:32t
01/04/2020 Sat	16:28s						17:05s
01/04/2020 Sat	17:55et	19:14t		19:22s			
01/05/2020 Sun	6:02mt	2:05s	7:27r		4:12r	7:02r	
01/05/2020 Sun	7:28r		11:47t	9:30r	8:52t	11:28t	7:56r
01/05/2020 Sun	11:58t	12:59r	16:06s	14:27t	13:32s	15:53s	12:29t
01/05/2020 Sun	16:29s						17:01s
01/05/2020 Sun	17:56et	19:58t		19:25s			
01/06/2020 M	6:02mt	3:09s			4:12r	6:59r	
01/06/2020 M	7:28r		7:30r	9:29r	8:51t	11:25t	7:52r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/06/2020 M	11:59t	13:27r	11:50t	14:28t	13:30s	15:50s	12:25t
01/06/2020 M	16:30s		16:10s				16:58s
01/06/2020 M	17:57et	20:46t		19:27s			
01/07/2020 Tu	6:01mt	4:15s			4:11r	6:56r	
01/07/2020 Tu	7:28r		7:32r	9:28r	8:50t	11:22t	7:49r
01/07/2020 Tu	11:59t	14:02r	11:53t	14:29t	13:29s	15:47s	12:22t
01/07/2020 Tu	16:31s		16:13s				16:55s
01/07/2020 Tu	17:58et	21:37t		19:30s			
01/08/2020 W	6:01mt	5:21s			4:11r	6:53r	
01/08/2020 W	7:28r		7:35r	9:27r	8:49t	11:19t	7:45r
01/08/2020 W	12:00t	14:44r	11:56t	14:29t	13:27s	15:45s	12:18t
01/08/2020 W	16:32s		16:17s				16:51s
01/08/2020 W	17:58et	22:32t		19:33s			
01/09/2020 Th	6:01mt	6:26s			4:10r	6:50r	
01/09/2020 Th	7:27r		7:37r	9:26r	8:48t	11:16t	7:42r
01/09/2020 Th	12:00t	15:35r	11:59t	14:30t	13:25s	15:42s	12:15t
01/09/2020 Th	16:33s		16:21s				16:48s
01/09/2020 Th	17:59et	23:31t		19:35s			
01/10/2020 F	6:01mt	7:26s			4:10r	6:47r	
01/10/2020 F	7:27r		7:40r	9:25r	8:47t	11:13t	7:38r
01/10/2020 F	12:01t	12:21FM	12:02t	14:31t	13:23s	15:39s	12:11t
01/10/2020 F	16:34s	16:36r	16:25s				16:45s
01/10/2020 F	18:00et			19:38s			
01/11/2020 Sat	6:01mt	0:30t			4:09r	6:44r	
01/11/2020 Sat	7:27r	8:19s	7:42r	9:24r	8:46t	11:10t	7:35r
01/11/2020 Sat	12:01t		12:05t	14:32t	13:22s	15:36s	12:08t
01/11/2020 Sat	16:35s	17:46r	16:30s				16:41s
01/11/2020 Sat	18:01et			19:40s			
01/12/2020 Sun	6:01mt	1:30t			4:09r	6:41r	
01/12/2020 Sun	7:26r	9:04s	7:44r	9:23r	8:44t	11:07t	7:31r
01/12/2020 Sun	12:01t		12:09t	14:32t	13:20s	15:33s	12:05t
01/12/2020 Sun	16:37s		16:34s				16:38s
01/12/2020 Sun	18:02et	19:00r		19:43s			
01/13/2020 M	6:00mt	2:27t			4:08r	6:38r	
01/13/2020 M	7:26r	9:42s	7:45r	9:21r	8:43t	11:04t	7:28r
01/13/2020 M	12:02t		12:12t	14:33t	13:18s	15:30s	12:01t
01/13/2020 M	16:38s		16:39s				16:35s
01/13/2020 M	18:03et	20:17r		19:46s			
01/14/2020 Tu	6:00mt	3:22t			4:08r	6:35r	7:24r
01/14/2020 Tu	7:26r	10:14s	7:47r	9:20r	8:42t	11:01t	11:58t
01/14/2020 Tu	12:02t		12:15t	14:34t	13:17s	15:27s	16:31s
01/14/2020 Tu	16:39s		16:43s				
01/14/2020 Tu	18:04et	21:32r		19:48s			
01/15/2020 W	6:00mt	4:14t			4:07r	6:32r	7:21r
01/15/2020 W	7:25r	10:43s	7:49r	9:19r	8:41t	10:58t	11:54t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/15/2020 W	12:03t		12:18t	14:34t	13:15s	15:24s	16:28s
01/15/2020 W	16:40s		16:48s				
01/15/2020 W	18:06et	22:47r		19:51s			
01/16/2020 Th	5:59mt	5:05t			4:07r	6:29r	7:17r
01/16/2020 Th	7:25r	11:11s	7:50r	9:18r	8:40t	10:55t	11:51t
01/16/2020 Th	12:03t		12:21t	14:35t	13:13s	15:22s	16:25s
01/16/2020 Th	16:41s		16:53s				
01/16/2020 Th	18:07et			19:53s			
01/17/2020 F		0:00r			4:06r		
01/17/2020 F		5:54t					
01/17/2020 F	5:59mt	5:58LQ				6:26r	7:14r
01/17/2020 F	7:24r	11:38s	7:52r	9:16r	8:39t	10:52t	11:47t
01/17/2020 F	12:03t		12:24t	14:36t	13:12s	15:19s	16:21s
01/17/2020 F	16:43s		16:58s				
01/17/2020 F	18:08et			19:56s			
01/18/2020 Sat	5:59mt	1:13r			4:06r	6:23r	
01/18/2020 Sat	7:23r	6:44t	7:53r	9:15r	8:38t	10:49t	7:10r
01/18/2020 Sat	12:04t	12:07s	12:28t	14:36t	13:10s	15:16s	11:44t
01/18/2020 Sat	16:44s		17:03s				16:18s
01/18/2020 Sat	18:09et			19:58s			
01/19/2020 Sun	5:58mt	2:24r			4:05r	6:20r	7:07r
01/19/2020 Sun	7:23r	7:35t	7:54r	9:14r	8:37t	10:46t	11:41t
01/19/2020 Sun	12:04t	12:38s	12:31t	14:37t	13:08s	15:13s	16:15s
01/19/2020 Sun	16:45s		17:08s				
01/19/2020 Sun	18:10et			20:01s			
01/20/2020 M	5:58mt	3:35r			4:05r	6:17r	7:03r
01/20/2020 M	7:22r	8:28t	7:55r	9:12r	8:36t	10:43t	11:37t
01/20/2020 M	12:04t	13:15s	12:34t	14:37t	13:07s	15:10s	16:11s
01/20/2020 M	16:47s		17:13s				
01/20/2020 M	18:11et			20:03s			
01/21/2020 Tu	5:57mt	4:42r			4:04r	6:14r	7:00r
01/21/2020 Tu	7:21r	9:22t	7:56r	9:11r	8:35t	10:41t	11:34t
01/21/2020 Tu	12:04t	13:58s	12:37t	14:38t	13:05s	15:07s	16:08s
01/21/2020 Tu	16:48s		17:19s				
01/21/2020 Tu	18:12et			20:06s			
01/22/2020 W	5:57mt	5:44r			4:04r	6:11r	6:56r
01/22/2020 W	7:21r	10:16t	7:57r	9:09r	8:34t	10:38t	11:30t
01/22/2020 W	12:05t	14:47s	12:40t	14:38t	13:04s	15:04s	16:05s
01/22/2020 W	16:49s		17:24s				
01/22/2020 W	18:13et			20:08s			
01/23/2020 Th	5:56mt	6:39r			4:03r	6:08r	6:52r
01/23/2020 Th	7:20r	11:10t	7:58r	9:08r	8:33t	10:35t	11:27t
01/23/2020 Th	12:05t	15:42s	12:43t	14:39t	13:02s	15:01s	16:01s
01/23/2020 Th	16:51s		17:29s				
01/23/2020 Th	18:14et			20:11s			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/24/2020 F	5:55mt				4:02r	6:05r	6:49r
01/24/2020 F	7:19r	7:25r	7:58r	9:06r	8:32t	10:32t	11:23t
01/24/2020 F	12:05t	12:02t	12:46t	14:39t	13:01s		
01/24/2020 F		14:42NM				14:59s	15:58s
01/24/2020 F	16:52s	16:43s	17:35s				
01/24/2020 F	18:16et			20:13s			
01/25/2020 Sat	5:55mt				4:02r	6:02r	6:45r
01/25/2020 Sat	7:18r	8:04r	7:59r	9:05r	8:31t	10:29t	11:20t
01/25/2020 Sat	12:05t	12:52t	12:49t	14:40t	12:59s	14:56s	15:55s
01/25/2020 Sat	16:53s	17:45s	17:40s				
01/25/2020 Sat	18:17et			20:16s			
01/26/2020 Sun	5:54mt				4:01r	5:59r	6:42r
01/26/2020 Sun	7:17r	8:37r	7:59r	9:03r	8:30t	10:26t	11:17t
01/26/2020 Sun	12:06t	13:39t	12:52t	14:40t	12:58s	14:53s	15:51s
01/26/2020 Sun	16:55s		17:46s				
01/26/2020 Sun	18:18et	18:48s		20:18s			
01/27/2020 M	5:53mt				4:01r	5:56r	6:38r
01/27/2020 M	7:16r	9:05r	7:59r	9:02r	8:29t	10:23t	11:13t
01/27/2020 M	12:06t	14:23t	12:55t	14:41t	12:57s	14:50s	15:48s
01/27/2020 M	16:56s		17:51s				
01/27/2020 M	18:19et	19:50s		20:21s			
01/28/2020 Tu	5:52mt				4:00r	5:52r	6:35r
01/28/2020 Tu	7:15r	9:29r	7:59r	9:00r	8:28t	10:20t	11:10t
01/28/2020 Tu	12:06t	15:06t	12:57t	14:41t	12:55s	14:47s	15:44s
01/28/2020 Tu	16:57s		17:57s				
01/28/2020 Tu	18:20et	20:50s		20:23s			
01/29/2020 W	5:51mt				3:59r	5:49r	6:31r
01/29/2020 W	7:14r	9:52r	7:59r	8:58r	8:27t	10:17t	11:06t
01/29/2020 W	12:06t	15:47t	13:00t	14:41t	12:54s	14:44s	15:41s
01/29/2020 W	16:59s		18:02s				
01/29/2020 W	18:22et	21:51s		20:25s			
01/30/2020 Th	5:51mt				3:59r	5:46r	6:28r
01/30/2020 Th	7:13r	10:14r	7:58r	8:57r	8:26t	10:14t	11:03t
01/30/2020 Th	12:06t	16:27t	13:02t	14:42t	12:53s	14:41s	15:38s
01/30/2020 Th	17:00s		18:08s				
01/30/2020 Th	18:23et	22:51s		20:28s			
01/31/2020 F	5:50mt				3:58r	5:43r	6:24r
01/31/2020 F	7:12r	10:36r	7:58r	8:55r	8:25t	10:11t	10:59t
01/31/2020 F	12:07t		13:05t	14:42t	12:51s	14:38s	15:34s
01/31/2020 F	17:01s	17:08t	18:13s				
01/31/2020 F	18:24et	23:51s		20:30s			
02/01/2020 Sat	5:49mt				3:57r	5:40r	6:21r
02/01/2020 Sat	7:11r	10:59r	7:57r	8:53r	8:24t	10:08t	10:56t
02/01/2020 Sat	12:07t		13:07t	14:43t	12:50s	14:35s	15:31s
02/01/2020 Sat	17:03s	17:51t	18:18s				

**Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.
All dates and times are MST.**

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/01/2020 Sat	18:25et	18:42FQ		20:33s			
02/02/2020 Sun	5:48mt	0:53s			3:57r	5:37r	6:17r
02/02/2020 Sun	7:10r	11:26r	7:56r	8:52r	8:23t	10:05t	10:52t
02/02/2020 Sun	12:07t		13:09t	14:43t	12:49s	14:32s	15:28s
02/02/2020 Sun	17:04s		18:23s				
02/02/2020 Sun	18:26et	18:36t		20:35s			
02/03/2020 M	5:47mt	1:57s			3:56r	5:34r	6:14r
02/03/2020 M	7:09r	11:56r	7:55r	8:50r	8:22t	10:02t	10:49t
02/03/2020 M	12:07t		13:11t	14:43t	12:47s	14:30s	15:24s
02/03/2020 M	17:06s						
02/03/2020 M	18:28et	19:24t	18:28s	20:37s			
02/04/2020 Tu	5:46mt	3:02s			3:55r	5:31r	6:10r
02/04/2020 Tu	7:08r		7:54r	8:48r	8:21t	9:59t	10:46t
02/04/2020 Tu	12:07t	12:33r	13:12t	14:43t	12:46s	14:27s	15:21s
02/04/2020 Tu	17:07s						
02/04/2020 Tu	18:29et	20:17t	18:32s	20:40s			
02/05/2020 W	5:45mt	4:06s			3:55r	5:28r	6:06r
02/05/2020 W	7:07r		7:53r	8:47r	8:20t	9:56t	10:42t
02/05/2020 W	12:07t	13:19r	13:14t	14:44t	12:45s	14:24s	15:18s
02/05/2020 W	17:08s						
02/05/2020 W	18:30et	21:13t	18:37s	20:42s			
02/06/2020 Th	5:44mt	5:09s			3:54r	5:25r	6:03r
02/06/2020 Th	7:05r		7:51r	8:45r	8:19t	9:53t	10:39t
02/06/2020 Th	12:07t	14:15r	13:15t	14:44t	12:44s	14:21s	15:14s
02/06/2020 Th	17:10s						
02/06/2020 Th	18:31et	22:11t	18:40s	20:44s			
02/07/2020 F	5:43mt	6:05s			3:53r	5:21r	5:59r
02/07/2020 F	7:04r		7:49r	8:43r	8:18t	9:50t	10:35t
02/07/2020 F	12:07t	15:21r	13:16t	14:44t	12:42s	14:18s	15:11s
02/07/2020 F	17:11s						
02/07/2020 F	18:33et	23:12t	18:44s	20:47s			
02/08/2020 Sat	5:42mt	6:54s			3:53r	5:18r	5:56r
02/08/2020 Sat	7:03r		7:47r	8:41r	8:17t	9:47t	10:32t
02/08/2020 Sat	12:07t	16:35r	13:16t	14:45t	12:41s	14:15s	15:08s
02/08/2020 Sat	17:13s						
02/08/2020 Sat	18:34et		18:47s	20:49s			
02/09/2020 Sun		0:11t					
02/09/2020 Sun	5:40mt	0:33FM			3:52r	5:15r	5:52r
02/09/2020 Sun	7:01r	7:36s	7:44r	8:40r	8:16t	9:44t	10:28t
02/09/2020 Sun	12:07t		13:16t	14:45t	12:40s	14:12s	15:04s
02/09/2020 Sun	17:14s	17:53r					
02/09/2020 Sun	18:35et		18:49s	20:51s			
02/10/2020 M	5:39mt	1:09t			3:51r	5:12r	5:49r
02/10/2020 M	7:00r	8:12s	7:41r	8:38r	8:15t	9:41t	10:25t
02/10/2020 M	12:07t		13:16t	14:45t	12:39s	14:09s	15:01s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/10/2020 M	17:15s						
02/10/2020 M	18:36et	19:12r	18:51s	20:53s			
02/11/2020 Tu	5:38mt	2:04t			3:50r	5:09r	5:45r
02/11/2020 Tu	6:59r	8:43s	7:38r	8:36r	8:14t	9:38t	10:21t
02/11/2020 Tu	12:07t		13:15t	14:45t	12:38s	14:06s	14:57s
02/11/2020 Tu	17:17s						
02/11/2020 Tu	18:38et	20:30r	18:52s	20:56s			
02/12/2020 W	5:37mt	2:57t			3:49r	5:06r	5:42r
02/12/2020 W	6:57r	9:12s	7:34r	8:34r	8:13t	9:34t	10:18t
02/12/2020 W	12:07t		13:13t	14:46t	12:37s	14:03s	14:54s
02/12/2020 W	17:18s						
02/12/2020 W	18:39et	21:47r	18:53s	20:58s			
02/13/2020 Th	5:35mt	3:49t			3:49r	5:02r	5:38r
02/13/2020 Th	6:56r	9:40s	7:31r	8:32r	8:12t	9:31t	10:14t
02/13/2020 Th	12:07t		13:11t	14:46t	12:36s	14:00s	14:51s
02/13/2020 Th	17:19s						
02/13/2020 Th	18:40et	23:02r	18:52s	21:00s			
02/14/2020 F	5:34mt	4:40t			3:48r	4:59r	5:34r
02/14/2020 F	6:54r	10:09s	7:26r	8:31r	8:11t	9:28t	10:11t
02/14/2020 F	12:07t		13:08t	14:46t	12:35s	13:57s	14:47s
02/14/2020 F	17:21s						
02/14/2020 F	18:41et		18:51s	21:02s			
02/15/2020 Sat		0:15r			3:47r	4:56r	5:31r
02/15/2020 Sat	5:33mt	5:32t					
02/15/2020 Sat	6:53r	10:40s	7:22r	8:29r	8:10t	9:25t	10:07t
02/15/2020 Sat	12:07t	15:17LQ	13:05t	14:46t	12:34s	13:54s	14:44s
02/15/2020 Sat	17:22s						
02/15/2020 Sat	18:43et		18:49s	21:05s			
02/16/2020 Sun	5:31mt	1:27r			3:46r	4:53r	5:27r
02/16/2020 Sun	6:52r	6:24t	7:17r	8:27r	8:09t	9:22t	10:04t
02/16/2020 Sun	12:07t	11:15s	13:01t	14:46t	12:33s	13:52s	14:41s
02/16/2020 Sun	17:24s						
02/16/2020 Sun	18:44et		18:46s	21:07s			
02/17/2020 M	5:30mt	2:35r			3:45r	4:50r	5:24r
02/17/2020 M	6:50r	7:18t	7:12r	8:25r	8:08t	9:19t	10:00t
02/17/2020 M	12:07t	11:56s	12:57t	14:47t	12:32s	13:49s	14:37s
02/17/2020 M	17:25s		18:42s				
02/17/2020 M	18:45et			21:09s			
02/18/2020 Tu	5:29mt	3:39r			3:44r	4:47r	5:20r
02/18/2020 Tu	6:49r	8:12t	7:06r	8:23r	8:07t	9:16t	9:57t
02/18/2020 Tu	12:07t	12:43s	12:52t	14:47t	12:31s	13:46s	14:34s
02/18/2020 Tu	17:26s		18:37s				
02/18/2020 Tu	18:46et			21:11s			
02/19/2020 W	5:27mt	4:35r			3:43r	4:43r	5:17r
02/19/2020 W	6:47r	9:05t	7:00r	8:22r	8:07t	9:13t	9:53t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/19/2020 W	12:07t	13:36s	12:46t	14:47t	12:30s	13:43s	14:30s
02/19/2020 W	17:28s		18:32s				
02/19/2020 W	18:48et			21:14s			
02/20/2020 Th	5:26mt	5:23r			3:42r	4:40r	5:13r
02/20/2020 Th	6:45r	9:57t	6:54r	8:20r	8:06t	9:10t	9:50t
02/20/2020 Th	12:07t	14:34s	12:40t	14:47t	12:29s	13:40s	14:27s
02/20/2020 Th	17:29s		18:25s				
02/20/2020 Th	18:49et			21:16s			
02/21/2020 F	5:24mt	6:04r			3:42r	4:37r	5:09r
02/21/2020 F	6:44r	10:47t	6:48r	8:18r	8:05t	9:07t	9:46t
02/21/2020 F	12:07t	15:35s	12:33t	14:47t	12:28s	13:37s	14:24s
02/21/2020 F	17:30s		18:18s				
02/21/2020 F	18:50et			21:18s			
02/22/2020 Sat	5:23mt	6:38r	6:42r		3:41r	4:34r	5:06r
02/22/2020 Sat	6:42r	11:35t		8:16r	8:04t	9:04t	9:43t
02/22/2020 Sat	12:07t	16:38s	12:26t	14:48t	12:27s	13:34s	14:20s
02/22/2020 Sat	17:32s		18:10s				
02/22/2020 Sat	18:51et			21:20s			
02/23/2020 Sun	5:21mt		6:35r		3:40r	4:31r	5:02r
02/23/2020 Sun	6:41r	7:07r		8:14r	8:03t		
02/23/2020 Sun	12:07t	8:32NM	12:18t			9:01t	9:39t
02/23/2020 Sun	17:33s	12:20t		14:48t	12:26s	13:31s	14:17s
02/23/2020 Sun	18:53et	17:40s	18:01s	21:22s			
02/24/2020 M	5:20mt		6:29r		3:39r	4:27r	4:59r
02/24/2020 M	6:39r	7:33r		8:12r	8:02t	8:58t	9:36t
02/24/2020 M	12:06t	13:03t	12:11t	14:48t	12:25s	13:28s	14:13s
02/24/2020 M	17:34s	18:41s	17:52s				
02/24/2020 M	18:54et			21:25s			
02/25/2020 Tu	5:18mt		6:22r		3:38r	4:24r	4:55r
02/25/2020 Tu	6:37r	7:56r	12:03t	8:11r	8:01t	8:54t	9:32t
02/25/2020 Tu	12:06t	13:44t		14:48t	12:24s	13:25s	14:10s
02/25/2020 Tu	17:36s		17:43s				
02/25/2020 Tu	18:55et	19:41s		21:27s			
02/26/2020 W	5:17mt		6:16r		3:37r	4:21r	4:51r
02/26/2020 W	6:36r	8:17r	11:55t	8:09r	8:00t	8:51t	9:29t
02/26/2020 W	12:06t	14:25t	17:33s	14:48t	12:23s	13:22s	14:06s
02/26/2020 W	17:37s						
02/26/2020 W	18:56et	20:41s		21:29s			
02/27/2020 Th	5:15mt		6:10r		3:36r	4:18r	4:48r
02/27/2020 Th	6:34r	8:39r	11:47t	8:07r	7:59t	8:48t	9:25t
02/27/2020 Th	12:06t	15:05t	17:24s	14:48t	12:23s	13:19s	14:03s
02/27/2020 Th	17:38s						
02/27/2020 Th	18:58et	21:42s		21:31s			
02/28/2020 F	5:13mt		6:04r		3:35r	4:14r	4:44r
02/28/2020 F	6:32r	9:02r	11:39t	8:05r	7:58t	8:45t	9:22t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/28/2020 F	12:06t	15:47t	17:14s	14:49t	12:22s	13:16s	14:00s
02/28/2020 F	17:40s						
02/28/2020 F	18:59et	22:43s		21:33s			
02/29/2020 Sat	5:12mt		5:58r		3:33r	4:11r	4:41r
02/29/2020 Sat	6:31r	9:26r	11:32t	8:03r	7:57t	8:42t	9:18t
02/29/2020 Sat	12:06t	16:30t	17:05s	14:49t	12:21s	13:13s	13:56s
02/29/2020 Sat	17:41s						
02/29/2020 Sat	19:00et	23:45s		21:35s			
03/01/2020 Sun	5:10mt		5:53r		3:32r	4:08r	4:37r
03/01/2020 Sun	6:29r	9:54r	11:25t	8:01r	7:56t	8:39t	9:15t
03/01/2020 Sun	12:05t	17:16t	16:56s	14:49t	12:20s	13:10s	13:53s
03/01/2020 Sun	17:42s						
03/01/2020 Sun	19:02et			21:38s			
03/02/2020 M	5:08mt	0:48s	5:47r		3:31r	4:05r	4:33r
03/02/2020 M	6:27r	10:28r	11:18t	8:00r	7:55t	8:36t	9:11t
03/02/2020 M	12:05t	12:57FQ	16:47s	14:49t	12:20s	13:07s	13:49s
03/02/2020 M	17:44s	18:06t					
03/02/2020 M	19:03et			21:40s			
03/03/2020 Tu	5:07mt	1:51s	5:43r		3:30r	4:01r	4:30r
03/03/2020 Tu	6:26r	11:08r	11:11t	7:58r	7:54t	8:32t	9:08t
03/03/2020 Tu	12:05t		16:39s	14:49t	12:19s	13:04s	13:46s
03/03/2020 Tu	17:45s	18:58t					
03/03/2020 Tu	19:04et			21:42s			
03/04/2020 W	5:05mt	2:53s	5:38r		3:29r	3:58r	4:26r
03/04/2020 W	6:24r	11:58r	11:05t	7:56r	7:53t	8:29t	9:04t
03/04/2020 W	12:05t		16:32s	14:49t	12:18s	13:01s	13:42s
03/04/2020 W	17:46s						
03/04/2020 W	19:05et	19:54t		21:44s			
03/05/2020 Th	5:03mt	3:51s	5:34r		3:28r	3:55r	4:23r
03/05/2020 Th	6:22r		10:59t	7:54r	7:53t	8:26t	9:01t
03/05/2020 Th	12:05t	12:57r	16:24s	14:50t	12:17s	12:57s	13:39s
03/05/2020 Th	17:48s						
03/05/2020 Th	19:07et	20:52t		21:46s			
03/06/2020 F	5:01mt	4:42s	5:30r		3:27r	3:51r	4:19r
03/06/2020 F	6:20r		10:54t	7:52r	7:52t	8:23t	8:57t
03/06/2020 F	12:04t	14:06r	16:18s	14:50t	12:17s	12:54s	13:35s
03/06/2020 F	17:49s						
03/06/2020 F	19:08et	21:51t		21:48s			
03/07/2020 Sat	5:00mt	5:27s	5:26r		3:25r	3:48r	4:15r
03/07/2020 Sat	6:19r		10:49t	7:51r	7:51t	8:20t	8:54t
03/07/2020 Sat	12:04t	15:22r	16:12s	14:50t	12:16s	12:51s	13:32s
03/07/2020 Sat	17:50s						
03/07/2020 Sat	19:09et	22:50t		21:50s			
03/08/2020 Sun	4:58mt	6:05s	5:23r		3:24r	3:45r	4:12r
03/08/2020 Sun	6:17r		10:45t	7:49r	7:50t	8:16t	8:50t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/08/2020 Sun	12:04t	16:41r	16:06s	14:50t	12:15s	12:48s	13:28s
03/08/2020 Sun	17:51s						
03/08/2020 Sun	19:11et	23:47t		21:52s			
03/09/2020 M	4:56mt		5:20r		3:23r	3:41r	4:08r
03/09/2020 M	6:15r	6:38s	10:41t	7:47r	7:49t	8:13t	8:46t
03/09/2020 M	12:04t	10:48FM	16:01s	14:50t	12:15s	12:45s	13:25s
03/09/2020 M	17:53s	18:02r					
03/09/2020 M	19:12et			21:54s			
03/10/2020 Tu	4:54mt	0:42t	5:17r		3:22r	3:38r	4:04r
03/10/2020 Tu	6:13r	7:09s	10:37t	7:45r	7:48t	8:10t	8:43t
03/10/2020 Tu	12:03t		15:57s	14:50t	12:14s	12:42s	13:22s
03/10/2020 Tu	17:54s						
03/10/2020 Tu	19:13et	19:22r		21:56s			
03/11/2020 W	4:53mt	1:36t	5:15r		3:20r	3:35r	4:01r
03/11/2020 W	6:12r	7:38s	10:34t	7:44r	7:47t	8:07t	8:39t
03/11/2020 W	12:03t		15:53s	14:50t	12:13s	12:39s	13:18s
03/11/2020 W	17:55s						
03/11/2020 W	19:14et	20:40r		21:58s			
03/12/2020 Th	4:51mt	2:29t	5:13r		3:19r	3:31r	3:57r
03/12/2020 Th	6:10r	8:07s	10:31t	7:42r	7:46t	8:04t	8:36t
03/12/2020 Th	12:03t		15:50s	14:51t	12:13s	12:36s	13:15s
03/12/2020 Th	17:56s						
03/12/2020 Th	19:16et	21:58r		22:00s			
03/13/2020 F	4:49mt	3:23t	5:11r		3:18r	3:28r	3:53r
03/13/2020 F	6:08r	8:38s	10:29t	7:40r	7:45t	8:00t	8:32t
03/13/2020 F	12:02t		15:47s	14:51t	12:12s	12:33s	13:11s
03/13/2020 F	17:58s						
03/13/2020 F	19:17et	23:14r		22:02s			
03/14/2020 Sat	4:47mt	4:17t	5:09r		3:17r	3:25r	3:50r
03/14/2020 Sat	6:06r	9:13s	10:27t	7:38r	7:44t	7:57t	8:29t
03/14/2020 Sat	12:02t		15:45s	14:51t	12:12s	12:30s	13:08s
03/14/2020 Sat	17:59s						
03/14/2020 Sat	19:18et			22:04s			
03/15/2020 Sun	4:45mt	0:26r	5:07r		3:15r	3:21r	3:46r
03/15/2020 Sun	6:04r	5:12t		7:37r	7:43t	7:54t	8:25t
03/15/2020 Sun	12:02t	9:53s	10:25t	14:51t	12:11s	12:26s	13:04s
03/15/2020 Sun	18:00s		15:43s				
03/15/2020 Sun	19:20et			22:06s			
03/16/2020 M		1:33r					
03/16/2020 M	4:43mt	2:34LQ	5:05r		3:14r	3:18r	3:42r
03/16/2020 M	6:03r	6:07t	10:23t	7:35r	7:42t	7:51t	8:21t
03/16/2020 M	12:02t	10:39s	15:41s	14:51t	12:11s	12:23s	13:00s
03/16/2020 M	18:01s						
03/16/2020 M	19:21et			22:08s			
03/17/2020 Tu	4:41mt	2:32r	5:04r		3:12r	3:15r	3:39r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/17/2020 Tu	6:01r	7:01t	10:22t	7:33r	7:41t	7:47t	8:18t
03/17/2020 Tu	12:01t	11:31s	15:40s	14:51t	12:10s	12:20s	12:57s
03/17/2020 Tu	18:03s						
03/17/2020 Tu	19:22et			22:10s			
03/18/2020 W	4:39mt	3:23r	5:03r		3:11r	3:11r	3:35r
03/18/2020 W	5:59r	7:54t	10:21t	7:31r	7:40t	7:44t	8:14t
03/18/2020 W	12:01t	12:28s	15:40s	14:51t	12:10s	12:17s	12:53s
03/18/2020 W	18:04s						
03/18/2020 W	19:24et			22:12s			
03/19/2020 Th	4:37mt	4:06r	5:01r		3:10r	3:08r	3:31r
03/19/2020 Th	5:57r	8:45t	10:20t	7:30r	7:39t	7:41t	8:11t
03/19/2020 Th	12:01t	13:28s	15:39s	14:51t	12:09s	12:14s	12:50s
03/19/2020 Th	18:05s						
03/19/2020 Th	19:25et						
03/19/2020 Th	20:50ME			22:14s			
03/20/2020 F	4:35mt	4:41r	5:00r		3:08r	3:04r	3:28r
03/20/2020 F	5:55r	9:33t	10:19t	7:28r	7:38t	7:37t	8:07t
03/20/2020 F	12:00t	14:30s	15:39s	14:51t	12:09s	12:11s	12:46s
03/20/2020 F	18:06s						
03/20/2020 F	19:26et			22:16s			
03/21/2020 Sat	4:34mt	5:11r	4:59r		3:07r	3:01r	3:24r
03/21/2020 Sat	5:53r	10:18t	10:19t	7:26r	7:37t	7:34t	8:03t
03/21/2020 Sat	12:00t	15:32s	15:39s	14:51t	12:08s	12:07s	12:43s
03/21/2020 Sat	18:08s						
03/21/2020 Sat	19:28et			22:17s			
03/22/2020 Sun	4:32mt	5:37r	4:58r		3:05r	2:58r	3:20r
03/22/2020 Sun	5:52r	11:01t	10:19t	7:25r	7:36t	7:31t	8:00t
03/22/2020 Sun	12:00t	16:33s	15:40s	14:51t	12:08s	12:04s	12:39s
03/22/2020 Sun	18:09s						
03/22/2020 Sun	19:29et			22:19s			
03/23/2020 M	4:30mt		4:57r		3:04r	2:54r	3:17r
03/23/2020 M	5:50r	6:01r	10:19t	7:23r	7:35t	7:28t	7:56t
03/23/2020 M	12:00t	11:43t	15:41s	14:52t	12:07s	12:01s	12:36s
03/23/2020 M	18:10s	17:34s					
03/23/2020 M	19:30et			22:21s			
03/24/2020 Tu	4:28mt	2:28NM	4:56r		3:02r	2:51r	3:13r
03/24/2020 Tu	5:48r	6:22r	10:19t	7:22r	7:34t	7:24t	7:53t
03/24/2020 Tu	11:59t	12:24t	15:42s	14:52t	12:07s	11:58s	12:32s
03/24/2020 Tu	18:11s	18:34s					
03/24/2020 Tu	19:32et			22:23s			
03/25/2020 W	4:26mt		4:55r		3:01r	2:47r	3:09r
03/25/2020 W	5:46r	6:44r	10:19t	7:20r	7:33t	7:21t	7:49t
03/25/2020 W	11:59t	13:04t	15:43s	14:52t	12:06s	11:55s	12:29s
03/25/2020 W	18:13s						
03/25/2020 W	19:33et	19:35s		22:24s			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/26/2020 Th	4:24mt		4:54r		2:59r	2:44r	3:06r
03/26/2020 Th	5:44r	7:06r	10:19t	7:18r	7:32t	7:18t	7:45t
03/26/2020 Th	11:59t	13:45t	15:45s	14:52t	12:06s	11:51s	12:25s
03/26/2020 Th	18:14s						
03/26/2020 Th	19:35et	20:35s		22:26s			
03/27/2020 F	4:22mt		4:54r		2:58r	2:40r	3:02r
03/27/2020 F	5:42r	7:29r	10:20t	7:17r	7:31t	7:14t	7:42t
03/27/2020 F	11:58t	14:28t	15:47s	14:52t	12:05s	11:48s	12:21s
03/27/2020 F	18:15s						
03/27/2020 F	19:36et	21:37s		22:27s			
03/28/2020 Sat	4:20mt		4:53r		2:56r	2:37r	2:58r
03/28/2020 Sat	5:41r	7:56r	10:20t	7:15r	7:30t	7:11t	7:38t
03/28/2020 Sat	11:58t	15:13t	15:49s	14:52t	12:05s	11:45s	12:18s
03/28/2020 Sat	18:16s						
03/28/2020 Sat	19:37et	22:40s		22:29s			
03/29/2020 Sun	4:18mt		4:52r		2:55r	2:33r	2:54r
03/29/2020 Sun	5:39r	8:27r	10:21t	7:14r	7:29t	7:07t	7:34t
03/29/2020 Sun	11:58t	16:00t	15:51s	14:52t	12:05s	11:41s	12:14s
03/29/2020 Sun	18:17s						
03/29/2020 Sun	19:39et	23:43s		22:30s			
03/30/2020 M	4:16mt		4:51r		2:53r	2:30r	2:51r
03/30/2020 M	5:37r	9:04r	10:22t	7:12r	7:28t	7:04t	7:31t
03/30/2020 M	11:57t	16:51t	15:53s	14:51t	12:04s	11:38s	12:11s
03/30/2020 M	18:19s						
03/30/2020 M	19:40et			22:32s			
03/31/2020 Tu	4:14mt	0:44s	4:51r		2:51r	2:26r	2:47r
03/31/2020 Tu	5:35r	9:48r	10:23t	7:10r	7:27t	7:01t	7:27t
03/31/2020 Tu	11:57t	17:44t	15:56s	14:51t	12:04s	11:35s	12:07s
03/31/2020 Tu	18:20s						
03/31/2020 Tu	19:42et			22:33s			
04/01/2020 W		1:42s			2:50r	2:23r	2:43r
04/01/2020 W	4:12mt	3:21FQ	4:50r				
04/01/2020 W	5:33r	10:42r	10:24t	7:09r	7:26t	6:57t	7:23t
04/01/2020 W	11:57t		15:59s	14:51t	12:03s	11:32s	12:03s
04/01/2020 W	18:21s	18:40t					
04/01/2020 W	19:43et			22:35s			
04/02/2020 Th	4:10mt	2:34s	4:49r		2:48r	2:19r	2:40r
04/02/2020 Th	5:32r		10:25t	7:07r	7:25t	6:54t	7:20t
04/02/2020 Th	11:57t	11:45r	16:02s	14:51t	12:03s	11:28s	12:00s
04/02/2020 Th	18:22s	19:36t					
04/02/2020 Th	19:45et			22:36s			
04/03/2020 F	4:08mt	3:20s	4:49r		2:46r	2:16r	2:36r
04/03/2020 F	5:30r		10:26t	7:06r	7:24t	6:50t	7:16t
04/03/2020 F	11:56t	12:56r	16:05s	14:51t	12:03s	11:25s	11:56s
04/03/2020 F	18:24s						

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/03/2020 F	19:46et	20:33t		22:37s			
04/04/2020 Sat	4:06mt	3:59s	4:48r		2:45r	2:12r	2:32r
04/04/2020 Sat	5:28r		10:27t	7:04r	7:23t	6:47t	7:12t
04/04/2020 Sat	11:56t	14:12r	16:08s	14:51t	12:02s	11:22s	11:52s
04/04/2020 Sat	18:25s						
04/04/2020 Sat	19:48et	21:29t		22:38s			
04/05/2020 Sun	4:04mt	4:34s	4:47r		2:43r	2:09r	2:28r
04/05/2020 Sun	5:26r		10:29t	7:03r	7:22t	6:43t	7:09t
04/05/2020 Sun	11:56t	15:30r	16:11s	14:51t	12:02s	11:18s	11:49s
04/05/2020 Sun	18:26s						
04/05/2020 Sun	19:49et	22:24t		22:39s			
04/06/2020 M	4:02mt	5:05s	4:47r		2:41r	2:05r	2:25r
04/06/2020 M	5:24r		10:30t	7:01r	7:21t	6:40t	7:05t
04/06/2020 M	11:55t	16:50r	16:15s	14:50t	12:01s	11:15s	11:45s
04/06/2020 M	18:27s						
04/06/2020 M	19:50et	23:18t		22:40s			
04/07/2020 Tu	3:59mt		4:46r		2:39r	2:02r	2:21r
04/07/2020 Tu	5:23r	5:34s	10:32t	7:00r	7:20t	6:37t	7:01t
04/07/2020 Tu	11:55t	18:10r	16:19s	14:50t	12:01s	11:11s	11:41s
04/07/2020 Tu	18:28s	19:35FM					
04/07/2020 Tu	19:52et			22:41s			
04/08/2020 W	3:57mt	0:12t	4:45r		2:38r	1:58r	2:17r
04/08/2020 W	5:21r	6:03s	10:33t	6:58r	7:19t	6:33t	6:57t
04/08/2020 W	11:55t		16:23s	14:50t	12:01s	11:08s	11:38s
04/08/2020 W	18:30s	19:30r					
04/08/2020 W	19:53et			22:42s			
04/09/2020 Th	3:55mt	1:07t	4:45r		2:36r	1:55r	2:13r
04/09/2020 Th	5:19r	6:33s	10:35t	6:57r	7:18t	6:30t	6:54t
04/09/2020 Th	11:55t		16:27s	14:49t	12:00s	11:05s	11:34s
04/09/2020 Th	18:31s						
04/09/2020 Th	19:55et	20:50r		22:43s			
04/10/2020 F	3:53mt	2:03t	4:44r		2:34r	1:51r	2:10r
04/10/2020 F	5:17r	7:07s	10:37t	6:55r	7:17t	6:26t	6:50t
04/10/2020 F	11:54t		16:31s	14:49t	12:00s	11:01s	11:30s
04/10/2020 F	18:32s						
04/10/2020 F	19:56et	22:07r		22:43s			
04/11/2020 Sat	3:51mt	2:59t	4:43r		2:32r	1:47r	2:06r
04/11/2020 Sat	5:16r	7:45s	10:39t	6:54r	7:16t	6:23t	6:46t
04/11/2020 Sat	11:54t		16:35s	14:48t	12:00s	10:58s	11:27s
04/11/2020 Sat	18:33s						
04/11/2020 Sat	19:58et	23:19r		22:44s			
04/12/2020 Sun	3:49mt	3:57t	4:43r		2:31r	1:44r	2:02r
04/12/2020 Sun	5:14r	8:30s	10:41t	6:52r	7:15t	6:19t	6:43t
04/12/2020 Sun	11:54t		16:40s	14:48t	11:59s	10:54s	11:23s
04/12/2020 Sun	18:34s						

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/12/2020 Sun	20:00et			22:44s			
04/13/2020 M	3:47mt	0:24r	4:42r		2:29r	1:40r	1:58r
04/13/2020 M	5:12r	4:53t		6:51r	7:14t	6:16t	6:39t
04/13/2020 M	11:54t	9:21s	10:43t	14:47t	11:59s	10:51s	11:19s
04/13/2020 M	18:36s		16:45s				
04/13/2020 M	20:01et			22:45s			
04/14/2020 Tu	3:45mt	1:20r	4:42r		2:27r	1:37r	1:54r
04/14/2020 Tu	5:10r	5:48t		6:49r	7:13t	6:12t	6:35t
04/14/2020 Tu	11:53t	10:19s	10:45t	14:47t	11:59s	10:47s	11:16s
04/14/2020 Tu	18:37s	15:56LQ	16:49s				
04/14/2020 Tu	20:03et			22:45s			
04/15/2020 W	3:43mt	2:06r	4:41r		2:25r	1:33r	1:51r
04/15/2020 W	5:09r	6:41t		6:48r	7:12t	6:08t	6:31t
04/15/2020 W	11:53t	11:19s	10:47t	14:46t	11:58s	10:44s	11:12s
04/15/2020 W	18:38s		16:54s				
04/15/2020 W	20:04et			22:45s			
04/16/2020 Th	3:41mt	2:44r	4:41r		2:23r	1:29r	1:47r
04/16/2020 Th	5:07r	7:30t		6:46r	7:10t	6:05t	6:27t
04/16/2020 Th	11:53t	12:22s	10:49t	14:45t	11:58s	10:40s	11:08s
04/16/2020 Th	18:39s		17:00s				
04/16/2020 Th	20:06et			22:45s			
04/17/2020 F	3:39mt	3:16r	4:40r		2:21r	1:26r	1:43r
04/17/2020 F	5:05r	8:17t		6:44r	7:09t	6:01t	6:24t
04/17/2020 F	11:53t	13:24s	10:52t	14:45t	11:58s	10:37s	11:04s
04/17/2020 F	18:41s		17:05s				
04/17/2020 F	20:07et			22:45s			
04/18/2020 Sat	3:37mt	3:43r	4:40r		2:19r	1:22r	1:39r
04/18/2020 Sat	5:04r	9:00t		6:43r	7:08t	5:58t	6:20t
04/18/2020 Sat	11:52t	14:26s	10:54t	14:44t	11:57s	10:33s	11:01s
04/18/2020 Sat	18:42s		17:10s				
04/18/2020 Sat	20:09et			22:45s			
04/19/2020 Sun	3:35mt	4:06r	4:39r		2:17r	1:18r	1:35r
04/19/2020 Sun	5:02r	9:42t		6:41r	7:07t	5:54t	6:16t
04/19/2020 Sun	11:52t	15:27s	10:57t	14:43t	11:57s	10:30s	10:57s
04/19/2020 Sun	18:43s		17:16s				
04/19/2020 Sun	20:10et			22:45s			
04/20/2020 M	3:33mt	4:28r	4:39r		2:16r	1:15r	1:32r
04/20/2020 M	5:01r	10:23t		6:39r	7:06t	5:50t	6:12t
04/20/2020 M	11:52t	16:27s	10:59t	14:42t	11:57s	10:26s	10:53s
04/20/2020 M	18:44s		17:22s				
04/20/2020 M	20:12et			22:45s			
04/21/2020 Tu	3:31mt	4:49r	4:38r		2:14r	1:11r	1:28r
04/21/2020 Tu	4:59r			6:38r	7:05t	5:47t	6:09t
04/21/2020 Tu	11:52t	11:03t	11:02t	14:41t	11:56s	10:23s	10:49s
04/21/2020 Tu	18:45s	17:27s	17:28s				

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/21/2020 Tu	20:14et			22:44s			
04/22/2020 W	3:29mt		4:38r		2:12r	1:07r	1:24r
04/22/2020 W	4:57r	5:11r		6:36r	7:04t	5:43t	6:05t
04/22/2020 W	11:52t	11:44t	11:05t	14:40t	11:56s	10:19s	10:46s
04/22/2020 W	18:47s	18:28s	17:34s				
04/22/2020 W	20:15et	19:26NM		22:43s			
04/23/2020 Th	3:27mt		4:38r		2:10r	1:04r	1:20r
04/23/2020 Th	4:56r	5:34r		6:34r	7:03t	5:40t	6:01t
04/23/2020 Th	11:51t	12:27t	11:08t	14:38t	11:56s	10:15s	10:42s
04/23/2020 Th	18:48s	19:30s	17:40s				
04/23/2020 Th	20:17et			22:43s			
04/24/2020 F	3:25mt		4:38r		2:08r	1:00r	1:16r
04/24/2020 F	4:54r	5:59r		6:32r	7:01t	5:36t	5:57t
04/24/2020 F	11:51t	13:11t	11:11t	14:37t	11:56s	10:12s	10:38s
04/24/2020 F	18:49s		17:47s				
04/24/2020 F	20:19et	20:33s		22:42s			
04/25/2020 Sat	3:23mt		4:38r		2:06r	0:56r	1:12r
04/25/2020 Sat	4:53r	6:28r		6:31r	7:00t	5:32t	5:53t
04/25/2020 Sat	11:51t	13:58t	11:15t	14:36t	11:55s	10:08s	10:34s
04/25/2020 Sat	18:50s		17:53s				
04/25/2020 Sat	20:20et	21:37s		22:41s			
04/26/2020 Sun	3:21mt		4:38r		2:04r	0:53r	1:09r
04/26/2020 Sun	4:51r	7:03r		6:29r	6:59t	5:28t	5:49t
04/26/2020 Sun	11:51t	14:47t	11:18t	14:34t	11:55s	10:04s	10:30s
04/26/2020 Sun	18:51s		18:00s				
04/26/2020 Sun	20:22et	22:39s		22:40s			
04/27/2020 M	3:19mt		4:38r		2:02r	0:49r	1:05r
04/27/2020 M	4:50r	7:45r		6:27r	6:58t	5:25t	5:46t
04/27/2020 M	11:51t	15:40t	11:21t	14:32t	11:55s	10:01s	10:27s
04/27/2020 M	18:53s		18:07s				
04/27/2020 M	20:24et	23:38s		22:38s			
04/28/2020 Tu	3:17mt		4:38r		2:00r	0:45r	1:01r
04/28/2020 Tu	4:48r	8:35r		6:25r	6:57t	5:21t	5:42t
04/28/2020 Tu	11:51t	16:34t	11:25t	14:31t	11:54s	9:57s	10:23s
04/28/2020 Tu	18:54s		18:14s				
04/28/2020 Tu	20:25et			22:37s			
04/29/2020 W	3:15mt	0:31s	4:38r		1:58r	0:41r	0:57r
04/29/2020 W	4:47r	9:34r		6:23r	6:56t	5:17t	5:38t
04/29/2020 W	11:50t	17:29t	11:29t	14:29t	11:54s	9:53s	10:19s
04/29/2020 W	18:55s		18:22s				
04/29/2020 W	20:27et			22:35s			
04/30/2020 Th	3:13mt	1:18s	4:38r		1:56r	0:38r	0:53r
04/30/2020 Th	4:45r			6:21r	6:54t	5:14t	5:34t
04/30/2020 Th	11:50t	10:40r	11:33t		11:54s	9:50s	10:15s
04/30/2020 Th		13:38FQ		14:27t			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/30/2020 Th	18:56s	18:24t	18:29s				
04/30/2020 Th	20:28et			22:33s			
05/01/2020 F	3:12mt	1:58s	4:39r		1:53r	0:34r	0:49r
05/01/2020 F	4:44r			6:18r	6:53t	5:10t	5:30t
05/01/2020 F	11:50t	11:52r	11:37t	14:25t	11:53s	9:46s	10:11s
05/01/2020 F	18:57s	19:19t	18:37s				
05/01/2020 F	20:30et			22:31s			
05/02/2020 Sat	3:10mt	2:33s	4:39r		1:51r	0:30r	0:45r
05/02/2020 Sat	4:42r			6:16r	6:52t	5:06t	5:26t
05/02/2020 Sat	11:50t	13:07r	11:41t	14:22t	11:53s	9:42s	10:07s
05/02/2020 Sat	18:59s	20:12t	18:44s				
05/02/2020 Sat	20:32et			22:29s			
05/03/2020 Sun	3:08mt	3:04s	4:40r		1:49r	0:26r	0:42r
05/03/2020 Sun	4:41r			6:14r	6:51t	5:02t	5:23t
05/03/2020 Sun	11:50t	14:24r	11:45t	14:20t	11:53s	9:38s	10:04s
05/03/2020 Sun	19:00s		18:52s				
05/03/2020 Sun	20:34et	21:04t		22:27s			
05/04/2020 M	3:06mt	3:32s			1:47r	0:22r	0:38r
05/04/2020 M	4:40r		4:41r	6:11r	6:50t	4:59t	5:19t
05/04/2020 M	11:50t	15:41r	11:50t	14:18t	11:52s	9:35s	10:00s
05/04/2020 M	19:01s		19:00s				
05/04/2020 M	20:35et	21:57t		22:24s			
05/05/2020 Tu	3:04mt	4:00s			1:45r	0:19r	0:34r
05/05/2020 Tu	4:38r		4:42r	6:09r	6:48t	4:55t	5:15t
05/05/2020 Tu	11:50t	17:00r	11:54t	14:15t	11:52s	9:31s	9:56s
05/05/2020 Tu	19:02s		19:08s				
05/05/2020 Tu	20:37et	22:50t		22:21s			
05/06/2020 W	3:02mt	4:29s			1:43r	0:15r	0:30r
05/06/2020 W	4:37r		4:43r	6:06r	6:47t	4:51t	5:11t
05/06/2020 W	11:50t	18:20r	11:59t	14:12t	11:52s	9:27s	9:52s
05/06/2020 W	19:03s		19:17s				
05/06/2020 W	20:39et	23:45t		22:18s			
05/07/2020 Th	3:00mt	3:45FM			1:41r	0:11r	0:26r
05/07/2020 Th	4:36r	5:00s	4:44r	6:03r	6:46t	4:47t	5:07t
05/07/2020 Th	11:50t		12:03t	14:09t	11:51s	9:23s	9:48s
05/07/2020 Th	19:05s	19:39r	19:25s				
05/07/2020 Th	20:40et			22:15s			
05/08/2020 F	2:59mt	0:41t			1:39r	0:07r	0:22r
05/08/2020 F	4:34r	5:36s	4:45r	6:00r	6:45t	4:43t	5:03t
05/08/2020 F	11:50t		12:08t	14:06t	11:51s	9:19s	9:44s
05/08/2020 F	19:06s		19:33s				
05/08/2020 F	20:42et	20:56r		22:12s			
05/09/2020 Sat	2:57mt	1:40t			1:37r	0:03r	0:18r
05/09/2020 Sat	4:33r	6:18s	4:47r	5:58r	6:43t	4:39t	4:59t
05/09/2020 Sat	11:50t		12:13t	14:03t	11:51s	9:16s	9:40s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/09/2020 Sat	19:07s		19:41s				
05/09/2020 Sat	20:44et	22:07r		22:08s		23:59r	
05/10/2020 Sun	2:55mt	2:39t			1:34r		0:14r
05/10/2020 Sun	4:32r	7:08s	4:48r	5:55r	6:42t	4:35t	4:55t
05/10/2020 Sun	11:50t		12:18t	13:59t	11:50s	9:12s	9:36s
05/10/2020 Sun	19:08s		19:49s				
05/10/2020 Sun	20:45et	23:09r		22:04s		23:55r	
05/11/2020 M	2:53mt	3:37t			1:32r		0:10r
05/11/2020 M	4:31r	8:04s	4:50r	5:51r	6:41t	4:32t	4:51t
05/11/2020 M	11:50t		12:22t	13:56t	11:50s	9:08s	9:32s
05/11/2020 M	19:09s		19:57s				
05/11/2020 M	20:47et			22:00s		23:51r	
05/12/2020 Tu	2:52mt	0:02r			1:30r	4:28t	0:06r
05/12/2020 Tu	4:29r	4:32t	4:52r	5:48r	6:40t	9:04s	4:47t
05/12/2020 Tu	11:50t	9:06s	12:27t	13:52t	11:49s		9:28s
05/12/2020 Tu	19:10s		20:04s				
05/12/2020 Tu	20:49et			21:56s		23:48r	
05/13/2020 W	2:50mt	0:44r			1:28r	4:24t	0:02r
05/13/2020 W	4:28r	5:24t	4:54r	5:45r	6:38t	9:00s	4:43t
05/13/2020 W	11:50t	10:09s	12:32t	13:48t	11:49s		9:24s
05/13/2020 W	19:11s		20:12s				
05/13/2020 W	20:50et			21:51s		23:44r	23:58r
05/14/2020 Th	2:48mt	1:18r			1:26r	4:20t	
05/14/2020 Th	4:27r	6:13t	4:56r	5:41r	6:37t		4:39t
05/14/2020 Th		7:03LQ				8:56s	9:20s
05/14/2020 Th	11:50t	11:13s	12:37t	13:44t	11:49s		
05/14/2020 Th	19:13s		20:19s				
05/14/2020 Th	20:52et			21:47s		23:40r	23:55r
05/15/2020 F	2:47mt	1:47r			1:23r	4:16t	
05/15/2020 F	4:26r	6:58t	4:58r	5:38r	6:36t	8:52s	4:35t
05/15/2020 F	11:50t	12:16s	12:41t	13:40t	11:48s		9:16s
05/15/2020 F	19:14s		20:26s				
05/15/2020 F	20:53et			21:42s		23:36r	23:51r
05/16/2020 Sat	2:45mt	2:12r			1:21r	4:12t	
05/16/2020 Sat	4:25r	7:40t	5:00r	5:34r	6:34t	8:48s	4:32t
05/16/2020 Sat	11:50t	13:18s	12:46t	13:35t	11:48s		9:12s
05/16/2020 Sat	19:15s		20:32s				
05/16/2020 Sat	20:55et			21:36s		23:32r	23:47r
05/17/2020 Sun	2:44mt	2:34r			1:19r	4:08t	
05/17/2020 Sun	4:24r	8:22t	5:03r	5:30r	6:33t	8:44s	4:28t
05/17/2020 Sun	11:50t	14:18s	12:50t	13:31t	11:48s		9:08s
05/17/2020 Sun	19:16s		20:39s				
05/17/2020 Sun	20:57et			21:31s		23:28r	23:43r
05/18/2020 M	2:42mt	2:55r			1:17r	4:04t	
05/18/2020 M	4:23r	9:02t	5:05r	5:26r	6:32t	8:40s	4:24t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/18/2020 M	11:50t	15:19s	12:54t	13:26t	11:47s		9:04s
05/18/2020 M	19:17s		20:45s				
05/18/2020 M	20:58et			21:25s		23:24r	23:39r
05/19/2020 Tu	2:41mt	3:16r			1:15r	4:00t	4:20t
05/19/2020 Tu	4:22r	9:43t	5:08r	5:22r	6:30t	8:36s	9:00s
05/19/2020 Tu	11:50t	16:19s	12:59t	13:21t	11:47s		
05/19/2020 Tu	19:18s		20:50s				
05/19/2020 Tu	21:00et			21:19s		23:20r	23:35r
05/20/2020 W	2:39mt	3:38r			1:12r	3:56t	4:16t
05/20/2020 W	4:21r	10:24t	5:10r	5:18r	6:29t	8:32s	8:56s
05/20/2020 W	11:50t	17:21s	13:02t	13:16t	11:46s		
05/20/2020 W	19:19s		20:55s				
05/20/2020 W	21:01et			21:13s		23:16r	23:31r
05/21/2020 Th	2:38mt	4:02r			1:10r	3:52t	4:12t
05/21/2020 Th	4:20r	11:08t	5:13r	5:14r	6:28t	8:28s	8:52s
05/21/2020 Th	11:50t	18:24s	13:06t	13:11t	11:46s		
05/21/2020 Th	19:20s		21:00s				
05/21/2020 Th	21:03et			21:07s		23:12r	23:27r
05/22/2020 F	2:36mt				1:08r	3:48t	4:08t
05/22/2020 F	4:19r	4:30r	5:16r	5:09r	6:26t	8:24s	8:48s
05/22/2020 F	11:50t	10:39NM			11:46s		
05/22/2020 F	19:21s	11:54t	13:10t	13:05t			
05/22/2020 F	21:05et	19:28s	21:04s	21:00s		23:08r	23:23r
05/23/2020 Sat	2:35mt				1:05r	3:44t	4:04t
05/23/2020 Sat	4:19r	5:03r	5:18r	5:05r	6:25t	8:20s	8:44s
05/23/2020 Sat	11:50t	12:44t	13:13t	13:00t	11:45s		
05/23/2020 Sat	19:22s	20:32s		20:53s			
05/23/2020 Sat	21:06et		21:08s			23:04r	23:19r
05/24/2020 Sun	2:34mt				1:03r	3:40t	4:00t
05/24/2020 Sun	4:18r	5:43r	5:21r	5:00r	6:24t	8:16s	8:40s
05/24/2020 Sun	11:50t	13:36t	13:16t	12:54t	11:45s		
05/24/2020 Sun	19:23s			20:46s			
05/24/2020 Sun	21:08et	21:33s	21:12s			23:00r	23:15r
05/25/2020 M	2:32mt				1:01r	3:36t	3:56t
05/25/2020 M	4:17r	6:31r	5:23r	4:56r	6:22t	8:12s	8:36s
05/25/2020 M	11:50t	14:30t	13:19t	12:48t	11:44s		
05/25/2020 M	19:24s			20:39s			
05/25/2020 M	21:09et	22:29s	21:15s			22:56r	23:11r
05/26/2020 Tu	2:31mt				0:59r	3:32t	3:52t
05/26/2020 Tu	4:16r	7:28r	5:26r	4:51r	6:21t	8:08s	8:32s
05/26/2020 Tu	11:50t	15:25t	13:22t	12:42t	11:44s		
05/26/2020 Tu	19:25s			20:32s			
05/26/2020 Tu	21:10et	23:18s	21:18s			22:52r	23:07r
05/27/2020 W	2:30mt				0:56r	3:28t	3:47t
05/27/2020 W	4:16r	8:32r	5:28r	4:46r	6:20t	8:03s	8:28s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/27/2020 W	11:50t	16:20t	13:24t	12:36t	11:43s		
05/27/2020 W	19:26s			20:24s			
05/27/2020 W	21:12et		21:20s			22:48r	23:03r
05/28/2020 Th	2:29mt	0:00s			0:54r	3:24t	3:43t
05/28/2020 Th	4:15r	9:41r	5:31r	4:42r	6:18t	7:59s	8:24s
05/28/2020 Th	11:51t	17:14t	13:26t	12:30t	11:43s		
05/28/2020 Th	19:27s			20:17s			
05/28/2020 Th	21:13et		21:22s			22:44r	22:59r
05/29/2020 F	2:28mt	0:36s			0:52r	3:19t	3:39t
05/29/2020 F	4:14r	10:54r	5:33r	4:37r	6:17t	7:55s	8:20s
05/29/2020 F	11:51t	18:07t	13:28t	12:23t	11:42s		
05/29/2020 F	19:28s	20:30FQ		20:09s			
05/29/2020 F	21:15et		21:23s			22:40r	22:55r
05/30/2020 Sat	2:27mt	1:07s			0:49r	3:15t	3:35t
05/30/2020 Sat	4:14r		5:35r	4:32r	6:15t	7:51s	8:16s
05/30/2020 Sat	11:51t	12:08r	13:30t	12:17t	11:42s		
05/30/2020 Sat	19:28s	18:58t		20:01s			
05/30/2020 Sat	21:16et		21:24s			22:36r	22:51r
05/31/2020 Sun	2:26mt	1:35s			0:47r	3:11t	3:31t
05/31/2020 Sun	4:13r		5:37r	4:27r	6:14t	7:47s	8:12s
05/31/2020 Sun	11:51t	13:23r	13:31t	12:10t	11:41s		
05/31/2020 Sun	19:29s	19:48t		19:53s			
05/31/2020 Sun	21:17et		21:25s			22:32r	22:47r
06/01/2020 M	2:25mt	2:01s			0:45r	3:07t	3:27t
06/01/2020 M	4:13r		5:39r	4:22r	6:13t	7:43s	8:08s
06/01/2020 M	11:51t	14:38r	13:33t	12:04t	11:41s		
06/01/2020 M	19:30s	20:39t		19:45s			
06/01/2020 M	21:18et		21:25s			22:27r	22:43r
06/02/2020 Tu	2:24mt	2:28s			0:42r	3:03t	3:23t
06/02/2020 Tu	4:12r		5:41r	4:17r	6:11t	7:38s	8:04s
06/02/2020 Tu	11:51t	15:55r	13:34t	11:57t	11:40s		
06/02/2020 Tu	19:31s			19:37s			
06/02/2020 Tu	21:20et	21:31t	21:25s			22:23r	22:39r
06/03/2020 W	2:23mt	2:57s			0:40r	2:59t	3:19t
06/03/2020 W	4:12r		5:43r	4:12r	6:10t	7:34s	7:59s
06/03/2020 W	11:51t	17:13r	13:34t	11:51t	11:40s		
06/03/2020 W	19:32s			19:29s			
06/03/2020 W	21:21et	22:26t	21:25s			22:19r	22:35r
06/04/2020 Th	2:22mt	3:30s		4:07r	0:37r	2:55t	3:15t
06/04/2020 Th	4:11r		5:44r		6:08t	7:30s	7:55s
06/04/2020 Th	11:52t	18:30r	13:34t	11:44t	11:39s		
06/04/2020 Th	19:32s			19:21s			
06/04/2020 Th	21:22et	23:22t	21:24s			22:15r	22:31r
06/05/2020 F	2:21mt	4:08s		4:02r	0:35r	2:50t	3:11t
06/05/2020 F	4:11r		5:45r	11:38t	6:07t	7:25s	7:51s

**Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.
All dates and times are MST.**

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/05/2020 F	11:52t	12:12FM	13:34t	19:13s	11:39s		
06/05/2020 F	19:33s	19:45r	21:23s				
06/05/2020 F	21:23et					22:11r	22:27r
06/06/2020 Sat	2:21mt	0:21t		3:57r	0:33r	2:46t	3:07t
06/06/2020 Sat	4:11r	4:54s	5:46r	11:32t	6:05t	7:21s	7:47s
06/06/2020 Sat	11:52t		13:34t	19:05s	11:38s		
06/06/2020 Sat	19:34s	20:52r	21:21s				
06/06/2020 Sat	21:24et					22:07r	22:23r
06/07/2020 Sun	2:20mt	1:20t		3:52r	0:30r	2:42t	3:03t
06/07/2020 Sun	4:10r	5:47s	5:47r	11:25t	6:04t	7:17s	7:43s
06/07/2020 Sun	11:52t		13:34t	18:57s	11:38s		
06/07/2020 Sun	19:34s		21:19s				
06/07/2020 Sun	21:25et	21:50r				22:03r	22:19r
06/08/2020 M	2:20mt	2:18t		3:48r	0:28r	2:38t	2:59t
06/08/2020 M	4:10r	6:48s	5:48r	11:19t	6:02t	7:13s	7:39s
06/08/2020 M	11:52t		13:33t	18:49s	11:37s		
06/08/2020 M	19:35s		21:17s				
06/08/2020 M	21:26et	22:38r				21:59r	22:14r
06/09/2020 Tu	2:19mt	3:13t		3:43r	0:26r	2:33t	2:55t
06/09/2020 Tu	4:10r	7:52s	5:48r	11:13t	6:01t	7:08s	7:35s
06/09/2020 Tu	11:53t		13:32t	18:42s	11:37s		
06/09/2020 Tu	19:36s		21:14s				
06/09/2020 Tu	21:27et	23:17r				21:54r	22:10r
06/10/2020 W	2:19mt	4:04t		3:38r	0:23r	2:29t	2:50t
06/10/2020 W	4:10r	8:58s	5:48r	11:07t	5:59t	7:04s	7:30s
06/10/2020 W	11:53t		13:30t	18:34s	11:36s		
06/10/2020 W	19:36s		21:11s				
06/10/2020 W	21:28et	23:49r				21:50r	22:06r
06/11/2020 Th	2:18mt			3:34r	0:21r	2:25t	2:46t
06/11/2020 Th	4:10r	4:52t	5:47r		5:58t	7:00s	7:26s
06/11/2020 Th	11:53t	10:03s	13:28t	11:01t	11:35s		
06/11/2020 Th	19:37s		21:08s	18:27s			
06/11/2020 Th	21:28et					21:46r	22:02r
06/12/2020 F	2:18mt	0:15r		3:29r	0:18r	2:21t	2:42t
06/12/2020 F	4:09r	5:36t	5:47r	10:55t	5:56t	6:55s	7:22s
06/12/2020 F	11:53t	11:06s	13:26t	18:20s	11:35s		
06/12/2020 F	19:37s		21:05s				
06/12/2020 F	21:29et	23:24LQ				21:42r	21:58r
06/13/2020 Sat	2:18mt	0:38r		3:25r	0:16r	2:16t	2:38t
06/13/2020 Sat	4:09r	6:18t	5:46r	10:49t	5:55t	6:51s	7:18s
06/13/2020 Sat	11:53t	12:07s	13:24t	18:13s	11:34s		
06/13/2020 Sat	19:38s		21:01s				
06/13/2020 Sat	21:30et					21:38r	21:54r
06/14/2020 Sun	2:17mt	1:00r		3:20r	0:13r	2:12t	2:34t
06/14/2020 Sun	4:09r	6:59t	5:45r	10:44t	5:53t	6:46s	7:14s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/14/2020 Sun	11:54t	13:08s	13:21t	18:06s	11:34s		
06/14/2020 Sun	19:38s		20:56s				
06/14/2020 Sun	21:30et					21:33r	21:50r
06/15/2020 M	2:17mt	1:21r		3:16r	0:11r	2:08t	2:30t
06/15/2020 M	4:09r	7:39t	5:43r	10:38t	5:52t	6:42s	7:09s
06/15/2020 M	11:54t	14:08s	13:18t	17:59s	11:33s		
06/15/2020 M	19:39s		20:52s			21:29r	
06/15/2020 M	21:31et						21:46r
06/16/2020 Tu	2:17mt	1:42r		3:12r	0:09r	2:03t	2:26t
06/16/2020 Tu	4:09r	8:20t	5:41r	10:33t	5:50t	6:38s	7:05s
06/16/2020 Tu	11:54t	15:09s	13:14t	17:53s	11:32s		
06/16/2020 Tu	19:39s		20:47s			21:25r	
06/16/2020 Tu	21:31et						21:42r
06/17/2020 W	2:17mt	2:05r		3:08r	0:06r	1:59t	2:21t
06/17/2020 W	4:09r	9:03t	5:39r	10:28t	5:49t	6:33s	7:01s
06/17/2020 W	11:54t	16:12s	13:11t	17:47s	11:32s		
06/17/2020 W	19:39s		20:42s			21:21r	
06/17/2020 W	21:32et						21:38r
06/18/2020 Th	2:17mt	2:32r		3:04r	0:04r	1:55t	2:17t
06/18/2020 Th	4:10r	9:49t	5:36r	10:23t	5:47t	6:29s	6:57s
06/18/2020 Th	11:55t	17:16s	13:06t	17:41s	11:31s		
06/18/2020 Th	19:40s		20:36s			21:16r	
06/18/2020 Th	21:32et						21:34r
06/19/2020 F	2:17mt	3:02r		3:00r	0:01r	1:50t	2:13t
06/19/2020 F	4:10r	10:37t	5:33r	10:18t	5:46t	6:24s	6:53s
06/19/2020 F	11:55t	18:21s	13:02t	17:35s	11:30s		
06/19/2020 F	19:40s		20:30s			21:12r	21:30r
06/19/2020 F	21:32et				23:59r		
06/20/2020 Sat	2:17mt	3:40r		2:56r		1:46t	2:09t
06/20/2020 Sat	4:10r	11:29t	5:30r	10:13t	5:44t	6:20s	6:48s
06/20/2020 Sat	11:55t		12:57t		11:30s		
06/20/2020 Sat	14:44JS	19:24s		17:30s			
06/20/2020 Sat	19:40s		20:24s			21:08r	21:25r
06/20/2020 Sat	21:33et	23:41NM			23:56r		
06/21/2020 Sun	2:18mt			2:52r		1:42t	2:05t
06/21/2020 Sun	4:10r	4:25r	5:26r	10:09t	5:42t	6:15s	6:44s
06/21/2020 Sun	11:55t	12:23t	12:52t	17:25s	11:29s		
06/21/2020 Sun	19:40s	20:23s	20:18s			21:04r	21:21r
06/21/2020 Sun	21:33et				23:54r		
06/22/2020 M	2:18mt			2:49r		1:37t	2:01t
06/22/2020 M	4:10r	5:20r	5:22r	10:04t	5:41t	6:11s	6:40s
06/22/2020 M	11:55t	13:19t	12:47t	17:20s	11:28s		
06/22/2020 M	19:40s	21:15s	20:11s			20:59r	21:17r
06/22/2020 M	21:33et				23:51r		
06/23/2020 Tu	2:18mt			2:45r		1:33t	1:56t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/23/2020 Tu	4:11r	6:23r	5:17r	10:00t	5:39t	6:06s	6:36s
06/23/2020 Tu	11:56t	14:15t	12:41t	17:15s	11:27s		
06/23/2020 Tu	19:40s		20:05s			20:55r	21:13r
06/23/2020 Tu	21:33et	22:00s			23:49r		
06/24/2020 W	2:19mt			2:42r		1:28t	1:52t
06/24/2020 W	4:11r	7:32r	5:13r	9:56t	5:37t	6:02s	6:31s
06/24/2020 W	11:56t	15:11t	12:36t	17:11s	11:27s		
06/24/2020 W	19:41s		19:58s			20:51r	21:09r
06/24/2020 W	21:33et	22:38s			23:46r		
06/25/2020 Th	2:19mt			2:38r		1:24t	1:48t
06/25/2020 Th	4:11r	8:44r	5:08r	9:52t	5:36t	5:57s	6:27s
06/25/2020 Th	11:56t	16:04t	12:30t	17:06s	11:26s		
06/25/2020 Th	19:41s		19:51s			20:46r	21:05r
06/25/2020 Th	21:33et	23:11s			23:44r		
06/26/2020 F	2:20mt			2:35r		1:20t	1:44t
06/26/2020 F	4:12r	9:58r	5:03r	9:49t	5:34t	5:53s	6:23s
06/26/2020 F	11:56t	16:55t	12:24t	17:02s	11:25s		
06/26/2020 F	19:41s		19:44s			20:42r	21:01r
06/26/2020 F	21:33et	23:39s			23:41r		
06/27/2020 Sat	2:20mt			2:32r		1:15t	1:40t
06/27/2020 Sat	4:12r	11:12r	4:57r	9:45t	5:33t	5:48s	6:19s
06/27/2020 Sat	11:56t	17:45t	12:17t	16:58s	11:24s		
06/27/2020 Sat	19:41s		19:37s			20:38r	20:57r
06/27/2020 Sat	21:32et				23:39r		
06/28/2020 Sun		0:06s				1:11t	
06/28/2020 Sun	2:21mt	1:16FQ		2:29r			1:35t
06/28/2020 Sun	4:13r		4:51r	9:42t	5:31t	5:44s	6:14s
06/28/2020 Sun	11:57t	12:26r	12:11t	16:55s	11:23s		
06/28/2020 Sun	19:41s	18:35t	19:30s			20:34r	20:53r
06/28/2020 Sun	21:32et				23:36r		
06/29/2020 M	2:21mt	0:32s		2:25r		1:06t	1:31t
06/29/2020 M	4:13r		4:46r	9:38t	5:29t	5:39s	6:10s
06/29/2020 M	11:57t	13:40r	12:04t	16:51s	11:22s		
06/29/2020 M	19:40s	19:25t	19:23s			20:29r	20:48r
06/29/2020 M	21:32et				23:34r		
06/30/2020 Tu	2:22mt	0:59s		2:23r		1:02t	1:27t
06/30/2020 Tu	4:14r		4:40r	9:35t	5:27t	5:35s	6:06s
06/30/2020 Tu	11:57t	14:55r	11:58t	16:48s	11:22s		
06/30/2020 Tu	19:40s	20:17t	19:16s			20:25r	20:44r
06/30/2020 Tu	21:31et				23:31r		
07/01/2020 W	2:23mt	1:29s		2:20r		0:58t	1:23t
07/01/2020 W	4:14r		4:34r	9:32t	5:26t	5:30s	6:01s
07/01/2020 W	11:57t	16:11r	11:51t	16:45s	11:21s		
07/01/2020 W	19:40s	21:11t	19:09s			20:21r	20:40r
07/01/2020 W	21:31et				23:29r		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/02/2020 Th	2:24mt	2:03s		2:17r		0:53t	1:19t
07/02/2020 Th	4:15r		4:28r	9:29t	5:24t	5:26s	5:57s
07/02/2020 Th	11:57t	17:25r	11:45t	16:42s	11:20s		
07/02/2020 Th	19:40s		19:02s			20:16r	20:36r
07/02/2020 Th	21:30et	22:07t			23:26r		
07/03/2020 F	2:25mt	2:45s		2:14r		0:49t	1:14t
07/03/2020 F	4:15r		4:21r	9:27t	5:22t	5:21s	5:53s
07/03/2020 F	11:58t	18:35r	11:39t	16:39s	11:19s		
07/03/2020 F	19:40s		18:56s			20:12r	20:32r
07/03/2020 F	21:30et	23:06t			23:24r		
07/04/2020 Sat	2:26mt	3:34s	4:15r	2:11r		0:44t	1:10t
07/04/2020 Sat	4:16r			9:24t	5:21t	5:16s	5:49s
07/04/2020 Sat	11:58t		11:33t	16:37s	11:18s		
07/04/2020 Sat	19:39s	19:37r	18:50s			20:08r	20:28r
07/04/2020 Sat	21:29et	21:44FM			23:21r		
07/05/2020 Sun	2:27mt	0:04t	4:09r	2:09r		0:40t	1:06t
07/05/2020 Sun	4:17r	4:31s		9:22t	5:19t	5:12s	5:44s
07/05/2020 Sun	11:58t		11:27t	16:34s	11:17s		
07/05/2020 Sun	19:39s	20:29r	18:44s			20:03r	20:24r
07/05/2020 Sun	21:29et				23:18r		
07/06/2020 M	2:28mt	1:00t	4:03r	2:06r		0:35t	1:02t
07/06/2020 M	4:17r	5:34s		9:19t	5:17t	5:07s	5:40s
07/06/2020 M	11:58t		11:21t	16:32s	11:16s		
07/06/2020 M	19:39s	21:12r	18:38s			19:59r	20:19r
07/06/2020 M	21:28et				23:16r		
07/07/2020 Tu	2:29mt	1:54t	3:58r	2:04r		0:31t	0:58t
07/07/2020 Tu	4:18r	6:40s		9:17t	5:15t	5:03s	5:36s
07/07/2020 Tu	11:58t		11:15t	16:30s	11:15s		
07/07/2020 Tu	19:38s		18:33s			19:55r	20:15r
07/07/2020 Tu	21:27et	21:47r			23:13r		
07/08/2020 W	2:30mt	2:43t	3:52r	2:02r		0:26t	0:53t
07/08/2020 W	4:19r	7:47s	11:10t	9:15t	5:13t	4:58s	5:31s
07/08/2020 W	11:58t		18:28s	16:28s	11:14s		
07/08/2020 W	19:38s					19:50r	20:11r
07/08/2020 W	21:26et	22:16r			23:11r		
07/09/2020 Th	2:31mt	3:30t	3:47r	1:59r		0:22t	0:49t
07/09/2020 Th	4:19r	8:51s	11:05t	9:13t	5:12t	4:54s	5:27s
07/09/2020 Th	11:59t		18:24s	16:26s	11:13s		
07/09/2020 Th	19:37s					19:46r	20:07r
07/09/2020 Th	21:25et	22:41r			23:08r		
07/10/2020 F	2:32mt	4:13t	3:41r	1:57r		0:17t	0:45t
07/10/2020 F	4:20r	9:54s	11:00t	9:11t	5:10t	4:49s	5:23s
07/10/2020 F	11:59t		18:19s	16:25s	11:12s		
07/10/2020 F	19:37s					19:41r	20:03r
07/10/2020 F	21:24et	23:03r			23:05r		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/11/2020 Sat	2:33mt		3:37r	1:55r		0:13t	0:41t
07/11/2020 Sat	4:21r	4:55t		9:09t	5:08t	4:44s	5:19s
07/11/2020 Sat	11:59t	10:55s	10:56t	16:23s	11:11s		
07/11/2020 Sat	19:36s		18:16s			19:37r	19:59r
07/11/2020 Sat	21:23et	23:24r			23:03r		
07/12/2020 Sun	2:35mt		3:32r	1:53r		0:08t	0:36t
07/12/2020 Sun	4:22r	5:35t	10:52t	9:07t	5:06t	4:40s	5:14s
07/12/2020 Sun	11:59t	11:56s		16:22s	11:10s		
07/12/2020 Sun	19:36s	16:29LQ	18:13s			19:33r	19:54r
07/12/2020 Sun	21:22et	23:45r			23:00r		
07/13/2020 M	2:36mt		3:28r	1:51r		0:04t	0:32t
07/13/2020 M	4:23r	6:16t	10:48t	9:05t	5:04t	4:35s	5:10s
07/13/2020 M	11:59t	12:57s	18:10s	16:20s	11:09s	19:28r	
07/13/2020 M	19:35s						19:50r
07/13/2020 M	21:21et				22:58r	24:00t	
07/14/2020 Tu	2:37mt	0:08r	3:24r	1:49r			0:28t
07/14/2020 Tu	4:24r	6:58t	10:45t	9:04t	5:02t	4:31s	5:06s
07/14/2020 Tu	11:59t	13:58s	18:08s	16:19s	11:07s	19:24r	
07/14/2020 Tu	19:34s						19:46r
07/14/2020 Tu	21:20et				22:55r	23:55t	
07/15/2020 W	2:39mt	0:32r	3:20r	1:47r			0:24t
07/15/2020 W	4:24r	7:41t	10:42t	9:02t	5:00t	4:26s	5:01s
07/15/2020 W	11:59t	15:01s	18:06s	16:18s	11:06s	19:20r	
07/15/2020 W	19:34s						19:42r
07/15/2020 W	21:19et				22:52r	23:51t	
07/16/2020 Th	2:40mt	1:01r	3:16r	1:45r		4:21s	0:20t
07/16/2020 Th	4:25r	8:28t	10:40t	9:01t	4:58t		4:57s
07/16/2020 Th	11:59t	16:06s	18:04s	16:17s	11:05s	19:15r	
07/16/2020 Th	19:33s						19:38r
07/16/2020 Th	21:18et				22:50r	23:46t	
07/17/2020 F	2:42mt	1:35r	3:13r	1:43r		4:17s	0:15t
07/17/2020 F	4:26r	9:18t	10:38t	9:00t	4:57t		4:53s
07/17/2020 F	11:59t	17:09s	18:03s	16:16s	11:04s	19:11r	
07/17/2020 F	19:32s						19:34r
07/17/2020 F	21:16et				22:47r	23:42t	
07/18/2020 Sat	2:43mt	2:17r	3:11r	1:42r		4:12s	0:11t
07/18/2020 Sat	4:27r	10:12t	10:36t	8:58t	4:55t		4:48s
07/18/2020 Sat	11:59t	18:11s	18:03s	16:15s	11:03s	19:07r	19:30r
07/18/2020 Sat	19:31s						
07/18/2020 Sat	21:15et				22:44r	23:37t	
07/19/2020 Sun	2:44mt	3:08r	3:09r	1:40r		4:08s	0:07t
07/19/2020 Sun	4:28r		10:35t	8:57t	4:53t		4:44s
07/19/2020 Sun	12:00t	11:08t	18:02s	16:15s	11:01s	19:02r	
07/19/2020 Sun	19:30s	19:07s					19:25r
07/19/2020 Sun	21:14et				22:42r	23:33t	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/20/2020 M	2:46mt	4:09r	3:07r	1:39r		4:03s	0:03t
07/20/2020 M	4:29r	10:33NM	10:34t	8:56t	4:51t		4:40s
07/20/2020 M	12:00t	12:05t	18:02s	16:14s	11:00s	18:58r	19:21r
07/20/2020 M	19:29s	19:56s					
07/20/2020 M	21:12et				22:39r	23:28t	23:58t
07/21/2020 Tu	2:47mt		3:05r	1:37r		3:59s	
07/21/2020 Tu	4:30r	5:17r	10:34t	8:55t	4:49t		4:35s
07/21/2020 Tu	12:00t	13:02t	18:03s	16:13s	10:59s	18:53r	19:17r
07/21/2020 Tu	19:29s	20:37s					
07/21/2020 Tu	21:11et				22:36r	23:24t	23:54t
07/22/2020 W	2:49mt		3:04r	1:36r		3:54s	4:31s
07/22/2020 W	4:31r	6:31r	10:34t	8:54t	4:47t		
07/22/2020 W	12:00t	13:58t	18:04s	16:13s	10:57s	18:49r	19:13r
07/22/2020 W	19:28s						
07/22/2020 W	21:09et	21:12s			22:33r	23:19t	23:50t
07/23/2020 Th	2:51mt		3:04r	1:34r		3:49s	4:27s
07/23/2020 Th	4:32r	7:46r	10:34t	8:53t	4:44t		
07/23/2020 Th	12:00t	14:51t	18:05s	16:12s	10:56s	18:45r	19:09r
07/23/2020 Th	19:27s						
07/23/2020 Th	21:08et	21:42s			22:31r	23:15t	23:46t
07/24/2020 F	2:52mt		3:03r	1:33r		3:45s	4:22s
07/24/2020 F	4:33r	9:02r	10:35t	8:52t	4:42t		
07/24/2020 F	12:00t	15:42t	18:07s	16:12s	10:54s	18:40r	19:05r
07/24/2020 F	19:26s						
07/24/2020 F	21:06et	22:10s			22:28r	23:10t	23:41t
07/25/2020 Sat	2:54mt		3:04r	1:32r		3:40s	4:18s
07/25/2020 Sat	4:34r	10:16r	10:36t	8:52t	4:40t		
07/25/2020 Sat	12:00t	16:32t	18:08s	16:12s	10:53s	18:36r	19:00r
07/25/2020 Sat	19:25s						
07/25/2020 Sat	21:05et	22:36s			22:25r	23:06t	23:37t
07/26/2020 Sun	2:55mt		3:04r	1:31r		3:36s	4:14s
07/26/2020 Sun	4:35r		10:37t	8:51t	4:38t		
07/26/2020 Sun	12:00t	11:31r		16:12s	10:52s		
07/26/2020 Sun	19:24s	17:22t	18:11s			18:32r	18:56r
07/26/2020 Sun	21:03et	23:03s			22:22r	23:01t	23:33t
07/27/2020 M	2:57mt		3:06r	1:30r	4:36t	3:31s	4:10s
07/27/2020 M	4:36r	5:33FQ	10:39t	8:50t	10:50s		
07/27/2020 M	12:00t	12:45r	18:13s	16:11s			
07/27/2020 M	19:22s	18:13t				18:27r	18:52r
07/27/2020 M	21:01et	23:31s			22:20r	22:57t	23:29t
07/28/2020 Tu	2:58mt		3:07r	1:29r	4:34t	3:27s	4:05s
07/28/2020 Tu	4:37r		10:41t	8:50t	10:48s		
07/28/2020 Tu	12:00t	14:00r	18:15s	16:11s		18:23r	18:48r
07/28/2020 Tu	19:21s	19:06t					
07/28/2020 Tu	21:00et				22:17r	22:53t	23:24t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/29/2020 W	3:00mt	0:04s	3:09r	1:28r	4:32t	3:22s	4:01s
07/29/2020 W	4:38r		10:44t	8:49t	10:47s		
07/29/2020 W	12:00t	15:13r	18:18s	16:11s		18:19r	18:44r
07/29/2020 W	19:20s	20:00t					
07/29/2020 W	20:58et				22:14r	22:48t	23:20t
07/30/2020 Th	3:02mt	0:42s	3:12r	1:27r	4:29t	3:18s	3:57s
07/30/2020 Th	4:40r		10:46t	8:49t	10:45s		
07/30/2020 Th	12:00t	16:23r	18:21s	16:11s		18:14r	18:40r
07/30/2020 Th	19:19s						
07/30/2020 Th	20:56et	20:57t			22:11r	22:44t	23:16t
07/31/2020 F	3:03mt	1:27s	3:15r	1:26r	4:27t	3:13s	3:52s
07/31/2020 F	4:41r		10:50t	8:48t	10:44s		
07/31/2020 F	12:00t	17:27r	18:24s	16:11s		18:10r	18:35r
07/31/2020 F	19:18s						
07/31/2020 F	20:55et	21:54t			22:08r	22:39t	23:12t
08/01/2020 Sat	3:05mt	2:20s	3:19r	1:25r	4:25t	3:09s	3:48s
08/01/2020 Sat	4:42r		10:53t	8:48t	10:42s		
08/01/2020 Sat	11:59t	18:22r	18:27s	16:11s		18:06r	18:31r
08/01/2020 Sat	19:17s						
08/01/2020 Sat	20:53et	22:50t			22:05r	22:35t	23:08t
08/02/2020 Sun	3:06mt	3:21s	3:23r	1:24r	4:23t	3:04s	3:44s
08/02/2020 Sun	4:43r		10:57t	8:48t	10:40s		
08/02/2020 Sun	11:59t	19:08r	18:30s	16:11s		18:01r	18:27r
08/02/2020 Sun	19:15s						
08/02/2020 Sun	20:51et	23:44t			22:03r	22:30t	23:03t
08/03/2020 M	3:08mt	4:25s	3:27r	1:24r	4:20t	3:00s	3:39s
08/03/2020 M	4:44r	8:59FM	11:00t	8:47t	10:38s		
08/03/2020 M	11:59t		18:33s	16:11s		17:57r	18:23r
08/03/2020 M	19:14s	19:45r					
08/03/2020 M	20:49et				22:00r	22:26t	22:59t
08/04/2020 Tu	3:10mt	0:35t	3:32r	1:23r	4:18t	2:55s	3:35s
08/04/2020 Tu	4:45r	5:31s	11:04t	8:47t	10:37s		
08/04/2020 Tu	11:59t		18:36s	16:12s		17:53r	18:19r
08/04/2020 Tu	19:13s	20:16r					
08/04/2020 Tu	20:48et				21:57r	22:22t	22:55t
08/05/2020 W	3:11mt	1:23t	3:37r	1:23r	4:16t	2:51s	3:31s
08/05/2020 W	4:46r	6:37s	11:09t	8:47t	10:35s		
08/05/2020 W	11:59t		18:39s	16:12s		17:48r	18:15r
08/05/2020 W	19:11s	20:43r					
08/05/2020 W	20:46et				21:54r	22:17t	22:51t
08/06/2020 Th	3:13mt	2:07t	3:43r	1:22r	4:13t	2:46s	3:26s
08/06/2020 Th	4:47r	7:41s	11:13t	8:47t	10:33s		
08/06/2020 Th	11:59t		18:42s	16:12s		17:44r	18:11r
08/06/2020 Th	19:10s						
08/06/2020 Th	20:44et	21:06r			21:51r	22:13t	22:46t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/07/2020 F	3:14mt	2:50t	3:49r	1:22r	4:11t	2:42s	3:22s
08/07/2020 F	4:48r	8:43s	11:17t	8:47t	10:31s		
08/07/2020 F	11:59t		18:45s	16:12s		17:40r	18:06r
08/07/2020 F	19:09s						
08/07/2020 F	20:42et	21:27r			21:48r	22:09t	22:42t
08/08/2020 Sat	3:16mt	3:31t	3:55r	1:21r	4:08t	2:37s	3:18s
08/08/2020 Sat	4:50r	9:44s	11:22t	8:47t	10:29s		
08/08/2020 Sat	11:59t		18:47s	16:12s		17:36r	18:02r
08/08/2020 Sat	19:07s						
08/08/2020 Sat	20:40et	21:48r			21:45r	22:04t	22:38t
08/09/2020 Sun	3:18mt	4:11t	4:01r	1:21r	4:06t	2:33s	3:14s
08/09/2020 Sun	4:51r	10:45s	11:26t	8:47t	10:27s		
08/09/2020 Sun	11:59t		18:50s	16:13s		17:31r	17:58r
08/09/2020 Sun	19:06s						
08/09/2020 Sun	20:38et	22:10r			21:42r	22:00t	22:34t
08/10/2020 M	3:19mt		4:08r	1:21r	4:03t	2:28s	3:09s
08/10/2020 M	4:52r	4:52t	11:31t	8:47t	10:25s		
08/10/2020 M	11:58t	11:46s	18:52s	16:13s		17:27r	17:54r
08/10/2020 M	19:04s						
08/10/2020 M	20:36et	22:33r			21:39r	21:55t	22:30t
08/11/2020 Tu	3:21mt		4:15r	1:21r	4:01t	2:24s	3:05s
08/11/2020 Tu	4:53r	5:35t		8:47t			
08/11/2020 Tu	11:58t	9:45LQ	11:35t		10:23s		
08/11/2020 Tu	19:03s	12:48s	18:54s	16:13s		17:23r	17:50r
08/11/2020 Tu	20:34et	22:59r			21:36r	21:51t	22:25t
08/12/2020 W	3:23mt		4:21r	1:21r	3:58t	2:20s	3:01s
08/12/2020 W	4:54r	6:20t	11:39t	8:47t	10:21s		
08/12/2020 W	11:58t	13:51s	18:56s	16:13s		17:18r	17:46r
08/12/2020 W	19:01s						
08/12/2020 W	20:32et	23:31r			21:33r	21:47t	22:21t
08/13/2020 Th	3:24mt		4:28r	1:21r	3:56t	2:15s	2:57s
08/13/2020 Th	4:55r	7:08t	11:44t	8:47t	10:18s		
08/13/2020 Th	11:58t	14:54s	18:58s	16:14s		17:14r	17:42r
08/13/2020 Th	19:00s						
08/13/2020 Th	20:30et				21:30r	21:43t	22:17t
08/14/2020 F	3:26mt	0:08r	4:35r	1:21r	3:53t	2:11s	2:52s
08/14/2020 F	4:56r	7:59t	11:48t	8:47t	10:16s		
08/14/2020 F	11:58t	15:56s		16:14s		17:10r	17:37r
08/14/2020 F	18:58s		18:59s				
08/14/2020 F	20:28et				21:27r	21:38t	22:13t
08/15/2020 Sat	3:27mt	0:55r	4:42r	1:21r	3:50t	2:06s	2:48s
08/15/2020 Sat	4:57r	8:54t	11:52t	8:47t	10:14s		
08/15/2020 Sat	11:58t	16:54s		16:14s		17:06r	17:33r
08/15/2020 Sat	18:57s		19:01s				
08/15/2020 Sat	20:27et				21:24r	21:34t	22:09t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/16/2020 Sun	3:29mt	1:51r	4:49r	1:21r	3:47t	2:02s	2:44s
08/16/2020 Sun	4:59r	9:51t	11:56t	8:48t	10:12s		
08/16/2020 Sun	11:57t	17:46s		16:15s		17:02r	17:29r
08/16/2020 Sun	18:55s		19:02s				
08/16/2020 Sun	20:25et				21:20r	21:30t	22:04t
08/17/2020 M	3:30mt	2:57r	4:56r	1:21r	3:45t	1:58s	2:40s
08/17/2020 M	5:00r	10:48t		8:48t	10:09s		
08/17/2020 M	11:57t	18:31s	12:00t	16:15s		16:57r	17:25r
08/17/2020 M	18:54s		19:03s				
08/17/2020 M	20:23et				21:17r	21:25t	22:00t
08/18/2020 Tu	3:32mt	4:09r		1:21r	3:42t	1:53s	2:35s
08/18/2020 Tu	5:01r	11:45t	5:03r	8:48t	10:07s		
08/18/2020 Tu	11:57t		12:04t	16:15s		16:53r	17:21r
08/18/2020 Tu	18:52s	19:09s	19:04s				
08/18/2020 Tu	20:21et	19:42NM			21:14r	21:21t	21:56t
08/19/2020 W	3:34mt			1:22r	3:39t	1:49s	2:31s
08/19/2020 W	5:02r	5:26r	5:09r	8:48t	10:04s		
08/19/2020 W	11:57t	12:40t	12:08t	16:15s		16:49r	17:17r
08/19/2020 W	18:50s	19:42s	19:04s				
08/19/2020 W	20:18et				21:11r	21:17t	21:52t
08/20/2020 Th	3:35mt			1:22r	3:36t	1:45s	2:27s
08/20/2020 Th	5:03r	6:44r	5:16r	8:49t	10:02s		
08/20/2020 Th	11:56t	13:34t	12:11t	16:16s		16:45r	17:13r
08/20/2020 Th	18:49s	20:11s	19:05s				
08/20/2020 Th	20:16et				21:07r	21:13t	21:48t
08/21/2020 F	3:37mt			1:22r	3:33t	1:40s	2:23s
08/21/2020 F	5:04r	8:01r	5:23r	8:49t	9:59s		
08/21/2020 F	11:56t	14:26t	12:15t	16:16s		16:41r	17:09r
08/21/2020 F	18:47s		19:05s				
08/21/2020 F	20:14et	20:38s			21:04r	21:08t	21:44t
08/22/2020 Sat	3:38mt			1:23r	3:30t	1:36s	2:18s
08/22/2020 Sat	5:06r	9:18r	5:29r	8:50t	9:56s		
08/22/2020 Sat	11:56t	15:17t	12:18t	16:16s		16:36r	17:04r
08/22/2020 Sat	18:45s		19:05s				
08/22/2020 Sat	20:12et	21:05s			21:01r	21:04t	21:39t
08/23/2020 Sun	3:40mt			1:24r	3:27t	1:32s	2:14s
08/23/2020 Sun	5:07r	10:34r	5:35r	8:50t	9:54s		
08/23/2020 Sun	11:56t	16:09t	12:21t	16:16s		16:32r	17:00r
08/23/2020 Sun	18:44s		19:05s				
08/23/2020 Sun	20:10et	21:33s			20:58r	21:00t	21:35t
08/24/2020 M	3:41mt			1:24r	3:24t	1:28s	2:10s
08/24/2020 M	5:08r	11:50r	5:42r	8:50t	9:51s		
08/24/2020 M	11:55t	17:02t	12:24t	16:17s		16:28r	16:56r
08/24/2020 M	18:42s		19:05s				
08/24/2020 M	20:08et	22:05s			20:54r	20:56t	21:31t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/25/2020 Tu	3:43mt			1:25r	3:21t	1:23s	2:06s
08/25/2020 Tu	5:09r	10:58FQ	5:48r	8:51t	9:48s		
08/25/2020 Tu	11:55t	13:05r	12:27t	16:17s		16:24r	16:52r
08/25/2020 Tu	18:40s	17:56t	19:05s				
08/25/2020 Tu	20:06et	22:41s			20:51r	20:52t	21:27t
08/26/2020 W	3:44mt			1:26r	3:18t	1:19s	2:02s
08/26/2020 W	5:10r		5:54r	8:51t	9:45s		
08/26/2020 W	11:55t	14:16r	12:30t	16:17s		16:20r	16:48r
08/26/2020 W	18:39s	18:52t	19:05s				
08/26/2020 W	20:04et	23:24s			20:47r	20:47t	21:23t
08/27/2020 Th	3:46mt			1:26r	3:15t	1:15s	1:57s
08/27/2020 Th	5:11r		5:59r	8:52t	9:42s		
08/27/2020 Th	11:54t	15:21r	12:33t	16:17s		16:16r	16:44r
08/27/2020 Th	18:37s	19:48t	19:04s				
08/27/2020 Th	20:02et				20:44r	20:43t	21:19t
08/28/2020 F	3:47mt	0:14s		1:27r	3:11t	1:11s	1:53s
08/28/2020 F	5:12r		6:05r	8:52t	9:39s		
08/28/2020 F	11:54t	16:18r	12:35t	16:17s		16:12r	16:40r
08/28/2020 F	18:35s		19:04s				
08/28/2020 F	20:00et	20:44t			20:40r	20:39t	21:14t
08/29/2020 Sat	3:49mt	1:12s		1:28r	3:08t	1:07s	1:49s
08/29/2020 Sat	5:14r		6:11r	8:53t	9:36s		
08/29/2020 Sat	11:54t	17:06r	12:38t	16:17s		16:08r	16:36r
08/29/2020 Sat	18:33s		19:03s				
08/29/2020 Sat	19:58et	21:38t			20:37r	20:35t	21:10t
08/30/2020 Sun	3:50mt	2:15s		1:29r	3:05t	1:03s	1:45s
08/30/2020 Sun	5:15r		6:16r	8:53t	9:33s		
08/30/2020 Sun	11:54t	17:46r	12:40t	16:17s		16:03r	16:32r
08/30/2020 Sun	18:32s		19:02s				
08/30/2020 Sun	19:56et	22:30t			20:33r	20:31t	21:06t
08/31/2020 M	3:51mt	3:20s		1:30r	3:01t	0:58s	1:41s
08/31/2020 M	5:16r		6:22r	8:54t	9:29s		
08/31/2020 M	11:53t	18:18r	12:42t	16:17s		15:59r	16:28r
08/31/2020 M	18:30s		19:01s				
08/31/2020 M	19:54et	23:18t			20:30r	20:27t	21:02t
09/01/2020 Tu	3:53mt	4:25s		1:31r	2:58t	0:54s	1:37s
09/01/2020 Tu	5:17r		6:27r	8:54t	9:26s		
09/01/2020 Tu	11:53t		12:44t	16:17s		15:55r	16:24r
09/01/2020 Tu	18:28s	18:45r	19:01s				
09/01/2020 Tu	19:52et	22:22FM			20:26r	20:23t	20:58t
09/02/2020 W	3:54mt	0:03t		1:32r	2:54t	0:50s	1:32s
09/02/2020 W	5:18r	5:29s	6:32r	8:55t	9:23s		
09/02/2020 W	11:53t		12:47t	16:17s		15:51r	16:20r
09/02/2020 W	18:26s	19:09r	19:00s				
09/02/2020 W	19:50et				20:22r	20:19t	20:54t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/03/2020 Th	3:56mt	0:46t		1:33r	2:51t	0:46s	1:28s
09/03/2020 Th	5:19r	6:32s	6:37r	8:56t	9:19s		
09/03/2020 Th	11:52t		12:49t	16:17s		15:47r	16:16r
09/03/2020 Th	18:25s	19:31r	18:59s				
09/03/2020 Th	19:48et				20:19r	20:15t	20:50t
09/04/2020 F	3:57mt	1:28t		1:35r	2:47t	0:42s	1:24s
09/04/2020 F	5:20r	7:34s	6:42r	8:56t	9:16s		
09/04/2020 F	11:52t		12:50t	16:17s		15:43r	16:11r
09/04/2020 F	18:23s		18:58s				
09/04/2020 F	19:46et	19:52r			20:15r	20:11t	20:46t
09/05/2020 Sat	3:59mt	2:08t		1:36r	2:43t	0:38s	1:20s
09/05/2020 Sat	5:22r	8:35s	6:47r	8:57t	9:12s		
09/05/2020 Sat	11:52t		12:52t	16:17s		15:39r	16:07r
09/05/2020 Sat	18:21s		18:56s				
09/05/2020 Sat	19:44et	20:13r			20:11r	20:07t	20:42t
09/06/2020 Sun	4:00mt	2:49t		1:37r	2:40t	0:34s	1:16s
09/06/2020 Sun	5:23r	9:36s	6:51r	8:57t	9:09s		
09/06/2020 Sun	11:51t		12:54t	16:17s		15:35r	16:03r
09/06/2020 Sun	18:19s		18:55s				
09/06/2020 Sun	19:42et	20:35r			20:07r	20:03t	20:38t
09/07/2020 M	4:01mt	3:31t		1:38r	2:36t	0:30s	1:12s
09/07/2020 M	5:24r	10:37s	6:56r	8:58t	9:05s		
09/07/2020 M	11:51t		12:56t	16:17s		15:31r	15:59r
09/07/2020 M	18:17s		18:54s				
09/07/2020 M	19:39et	21:00r			20:03r	19:59t	20:33t
09/08/2020 Tu	4:03mt	4:14t		1:40r	2:32t	0:26s	1:08s
09/08/2020 Tu	5:25r	11:39s	7:00r	8:59t	9:01s		
09/08/2020 Tu	11:51t		12:57t	16:17s		15:27r	15:55r
09/08/2020 Tu	18:15s		18:53s				
09/08/2020 Tu	19:37et	21:28r			19:59r	19:55t	20:29t
09/09/2020 W	4:04mt	5:00t		1:41r	2:28t	0:22s	1:04s
09/09/2020 W	5:26r		7:05r	8:59t	8:57s		
09/09/2020 W	11:50t	12:41s	12:59t	16:17s		15:23r	15:51r
09/09/2020 W	18:14s		18:52s				
09/09/2020 W	19:35et	22:02r			19:55r	19:51t	20:25t
09/10/2020 Th	4:05mt	2:26LQ		1:43r	2:24t	0:18s	0:59s
09/10/2020 Th	5:27r	5:49t	7:09r	9:00t	8:53s		
09/10/2020 Th	11:50t	13:43s	13:00t	16:17s		15:19r	15:47r
09/10/2020 Th	18:12s		18:50s				
09/10/2020 Th	19:33et	22:44r			19:51r	19:47t	20:21t
09/11/2020 F	4:07mt			1:44r	2:20t	0:14s	0:55s
09/11/2020 F	5:28r	6:41t	7:13r	9:01t	8:49s		
09/11/2020 F	11:50t	14:42s	13:02t	16:16s		15:15r	15:43r
09/11/2020 F	18:10s		18:49s				
09/11/2020 F	19:31et	23:35r			19:47r	19:43t	20:17t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/12/2020 Sat	4:08mt			1:46r	2:16t	0:10s	0:51s
09/12/2020 Sat	5:30r	7:36t	7:17r	9:01t	8:45s		
09/12/2020 Sat	11:49t	15:35s	13:03t	16:16s		15:11r	15:39r
09/12/2020 Sat	18:08s		18:47s				
09/12/2020 Sat	19:29et				19:43r	19:39t	20:13t
09/13/2020 Sun	4:09mt	0:35r		1:47r	2:12t	0:06s	0:47s
09/13/2020 Sun	5:31r	8:32t	7:22r	9:02t	8:41s		
09/13/2020 Sun	11:49t	16:23s	13:04t	16:16s		15:07r	15:35r
09/13/2020 Sun	18:06s		18:46s				
09/13/2020 Sun	19:27et				19:39r	19:35t	20:09t
09/14/2020 M	4:11mt	1:44r		1:49r	2:08t	0:02s	0:43s
09/14/2020 M	5:32r	9:29t	7:25r	9:02t	8:37s		
09/14/2020 M	11:48t	17:03s	13:06t	16:15s		15:04r	15:31r
09/14/2020 M	18:04s		18:44s				
09/14/2020 M	19:25et				19:35r	19:31t	20:05t
09/14/2020 M						23:58s	
09/15/2020 Tu	4:12mt	2:59r		1:51r	2:04t		0:39s
09/15/2020 Tu	5:33r	10:25t	7:29r	9:03t	8:33s		
09/15/2020 Tu	11:48t	17:38s	13:07t	16:15s		15:00r	15:27r
09/15/2020 Tu	18:03s		18:43s				
09/15/2020 Tu	19:23et				19:31r	19:27t	20:01t
09/15/2020 Tu						23:54s	
09/16/2020 W	4:13mt	4:17r		1:52r	1:59t		0:35s
09/16/2020 W	5:34r	11:20t	7:33r	9:04t	8:28s		
09/16/2020 W	11:48t		13:08t	16:15s		14:56r	15:23r
09/16/2020 W	18:01s	18:09s	18:41s				
09/16/2020 W	19:21et				19:27r	19:23t	19:57t
09/16/2020 W						23:50s	
09/17/2020 Th	4:15mt	4:00NM		1:54r	1:55t		0:31s
09/17/2020 Th	5:35r	5:36r	7:37r	9:04t	8:24s		
09/17/2020 Th	11:47t	12:13t	13:09t	16:14s		14:52r	15:19r
09/17/2020 Th	17:59s	18:37s	18:40s				
09/17/2020 Th	19:19et				19:22r	19:19t	19:53t
09/17/2020 Th						23:47s	
09/18/2020 F	4:16mt			1:56r	1:51t		0:27s
09/18/2020 F	5:36r	6:55r	7:40r	9:05t	8:19s		
09/18/2020 F	11:47t	13:06t	13:10t	16:14s		14:48r	15:15r
09/18/2020 F	17:57s	19:04s	18:38s			19:15t	
09/18/2020 F	19:17et				19:18r	23:43s	19:49t
09/19/2020 Sat	4:17mt			1:58r	1:46t		0:23s
09/19/2020 Sat	5:38r	8:15r	7:44r	9:06t	8:15s		
09/19/2020 Sat	11:47t	13:59t	13:11t	16:13s		14:44r	15:11r
09/19/2020 Sat	17:55s		18:37s		19:14r	19:12t	
09/19/2020 Sat	19:15et	19:33s				23:39s	19:45t
09/20/2020 Sun	4:19mt			1:59r	1:42t		0:19s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/28/2020 M	4:29mt	2:16s		2:15r	1:04t		
09/28/2020 M	5:48r		8:09r	9:11t	7:31s		
09/28/2020 M	11:44t	16:50r	13:15t	16:07s		14:10r	14:36r
09/28/2020 M	17:38s		18:21s		18:32r	18:38t	
09/28/2020 M	18:58et	22:01t				23:05s	19:09t
09/28/2020 M							23:43s
09/29/2020 Tu	4:30mt	3:21s		2:17r	0:59t		
09/29/2020 Tu	5:49r		8:12r	9:12t	7:26s		
09/29/2020 Tu	11:43t	17:14r	13:15t	16:07s		14:06r	14:32r
09/29/2020 Tu	17:37s		18:19s		18:28r	18:34t	
09/29/2020 Tu	18:56et	22:44t				23:01s	19:05t
09/29/2020 Tu							23:39s
09/30/2020 W	4:31mt	4:24s		2:19r	0:54t		
09/30/2020 W	5:50r		8:13r	9:13t	7:20s		
09/30/2020 W	11:43t		13:15t	16:06s		14:03r	14:28r
09/30/2020 W	17:35s	17:36r	18:17s		18:23r	18:30t	
09/30/2020 W	18:54et	23:26t				22:58s	19:02t
09/30/2020 W							23:35s
10/01/2020 Th	4:32mt	5:25s		2:21r	0:49t		
10/01/2020 Th	5:52r		8:15r	9:13t	7:15s		
10/01/2020 Th	11:43t	14:05FM	13:15t	16:05s		13:59r	14:24r
10/01/2020 Th	17:33s	17:57r	18:14s		18:18r	18:26t	
10/01/2020 Th	18:52et					22:54s	18:58t
10/01/2020 Th							23:31s
10/02/2020 F	4:34mt	0:07t		2:23r	0:44t		
10/02/2020 F	5:53r	6:26s	8:17r	9:14t	7:10s		
10/02/2020 F	11:42t		13:15t	16:04s		13:55r	14:20r
10/02/2020 F	17:31s	18:18r	18:12s		18:13r	18:23t	
10/02/2020 F	18:50et					22:50s	18:54t
10/02/2020 F							23:28s
10/03/2020 Sat	4:35mt	0:47t		2:25r	0:39t		
10/03/2020 Sat	5:54r	7:27s	8:18r	9:14t	7:05s		
10/03/2020 Sat	11:42t		13:14t	16:03s		13:51r	14:16r
10/03/2020 Sat	17:29s	18:39r	18:10s		18:08r	18:19t	
10/03/2020 Sat	18:48et					22:47s	18:50t
10/03/2020 Sat							23:24s
10/04/2020 Sun	4:36mt	1:28t		2:27r	0:34t		
10/04/2020 Sun	5:55r	8:29s	8:19r	9:15t	6:59s		
10/04/2020 Sun	11:42t		13:13t	16:02s		13:48r	14:12r
10/04/2020 Sun	17:27s		18:08s		18:04r	18:16t	18:46t
10/04/2020 Sun	18:46et	19:02r				22:43s	23:20s
10/05/2020 M	4:37mt	2:11t		2:29r	0:29t		
10/05/2020 M	5:56r	9:31s	8:19r	9:16t	6:54s		
10/05/2020 M	11:41t		13:13t	16:01s		13:44r	14:08r
10/05/2020 M	17:26s		18:05s		17:59r	18:12t	18:42t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/05/2020 M	18:45et	19:29r				22:40s	23:16s
10/06/2020 Tu	4:38mt	2:56t		2:31r	0:24t		
10/06/2020 Tu	5:58r	10:33s	8:19r	9:16t	6:49s		
10/06/2020 Tu	11:41t		13:11t	16:00s		13:40r	14:04r
10/06/2020 Tu	17:24s		18:03s		17:54r	18:08t	18:38t
10/06/2020 Tu	18:43et	20:01r				22:36s	23:12s
10/07/2020 W	4:40mt	3:43t		2:33r	0:19t		
10/07/2020 W	5:59r	11:34s	8:19r	9:17t	6:43s		
10/07/2020 W	11:41t		13:10t	15:59s		13:37r	14:01r
10/07/2020 W	17:22s		18:00s		17:49r	18:05t	18:34t
10/07/2020 W	18:41et	20:39r				22:33s	23:08s
10/08/2020 Th	4:41mt	4:34t		2:36r	0:13t		
10/08/2020 Th	6:00r		8:18r	9:17t	6:38s		
10/08/2020 Th	11:41t	12:33s	13:08t	15:58s		13:33r	13:57r
10/08/2020 Th	17:20s		17:58s		17:44r	18:01t	18:30t
10/08/2020 Th	18:39et	21:25r				22:29s	23:04s
10/09/2020 F	4:42mt	5:26t		2:38r	0:08t		
10/09/2020 F	6:01r		8:17r	9:18t	6:32s		
10/09/2020 F	11:40t	13:28s	13:06t	15:57s		13:29r	13:53r
10/09/2020 F	17:19s	17:40LQ	17:55s		17:39r	17:57t	18:27t
10/09/2020 F	18:38et	22:20r				22:26s	23:00s
10/10/2020 Sat	4:43mt			2:40r	0:03t		
10/10/2020 Sat	6:02r	6:20t	8:16r	9:19t	6:27s		
10/10/2020 Sat	11:40t	14:16s	13:04t	15:56s		13:26r	13:49r
10/10/2020 Sat	17:17s		17:52s		17:34r	17:54t	18:23t
10/10/2020 Sat	18:36et	23:23r			23:58t	22:22s	22:57s
10/11/2020 Sun	4:44mt			2:42r			
10/11/2020 Sun	6:04r	7:15t	8:14r	9:19t	6:21s		
10/11/2020 Sun	11:40t	14:58s	13:01t	15:55s		13:22r	13:45r
10/11/2020 Sun	17:15s		17:48s		17:29r	17:50t	18:19t
10/11/2020 Sun	18:34et				23:53t	22:19s	22:53s
10/12/2020 M	4:46mt	0:33r		2:44r			
10/12/2020 M	6:05r	8:10t	8:11r	9:20t	6:16s		
10/12/2020 M	11:39t	15:34s	12:58t	15:54s		13:19r	13:41r
10/12/2020 M	17:13s		17:45s		17:24r	17:47t	18:15t
10/12/2020 M	18:33et				23:47t	22:15s	22:49s
10/13/2020 Tu	4:47mt	1:48r		2:46r			
10/13/2020 Tu	6:06r	9:04t	8:07r	9:20t	6:10s		
10/13/2020 Tu	11:39t	16:06s	12:54t	15:53s		13:15r	13:37r
10/13/2020 Tu	17:12s		17:42s		17:19r	17:43t	18:11t
10/13/2020 Tu	18:31et				23:42t	22:12s	22:45s
10/14/2020 W	4:48mt	3:06r		2:49r	6:05s		
10/14/2020 W	6:07r	9:57t	8:03r	9:21t			
10/14/2020 W	11:39t	16:34s	12:50t	15:52s		13:11r	13:33r
10/14/2020 W	17:10s		17:38s		17:14r	17:40t	18:07t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/14/2020 W	18:29et				23:37t	22:08s	22:41s
10/15/2020 Th	4:49mt	4:25r		2:51r	6:00s		
10/15/2020 Th	6:09r	10:50t	7:58r	9:21t			
10/15/2020 Th	11:39t	17:01s	12:46t	15:51s		13:08r	13:30r
10/15/2020 Th	17:08s		17:34s		17:09r	17:36t	18:04t
10/15/2020 Th	18:28et				23:32t	22:05s	22:38s
10/16/2020 F	4:50mt	5:45r		2:53r	5:54s		
10/16/2020 F	6:10r		7:53r	9:22t			
10/16/2020 F	11:39t	11:43t					
10/16/2020 F	17:07s	12:31NM	12:41t	15:50s	17:04r	13:04r	13:26r
10/16/2020 F	18:26et	17:29s	17:30s			17:33t	18:00t
10/16/2020 F					23:27t	22:01s	22:34s
10/17/2020 Sat	4:52mt			2:55r	5:49s		
10/17/2020 Sat	6:11r	7:06r	7:46r	9:22t			
10/17/2020 Sat	11:38t	12:38t	12:35t	15:49s	16:59r	13:01r	13:22r
10/17/2020 Sat	17:05s	17:59s	17:25s			17:29t	17:56t
10/17/2020 Sat	18:24et				23:21t	21:58s	22:30s
10/18/2020 Sun	4:53mt			2:58r	5:43s		
10/18/2020 Sun	6:12r	8:27r	7:39r	9:23t			
10/18/2020 Sun	11:38t	13:35t	12:29t	15:48s	16:54r	12:57r	13:18r
10/18/2020 Sun	17:03s		17:21s			17:26t	17:52t
10/18/2020 Sun	18:23et	18:33s			23:16t	21:54s	22:26s
10/19/2020 M	4:54mt			3:00r	5:38s		
10/19/2020 M	6:14r	9:47r	7:31r	9:24t			
10/19/2020 M	11:38t	14:33t	12:23t	15:46s	16:49r	12:54r	13:14r
10/19/2020 M	17:02s		17:16s			17:22t	17:48t
10/19/2020 M	18:21et	19:13s			23:11t	21:51s	22:22s
10/20/2020 Tu	4:55mt			3:02r	5:33s		
10/20/2020 Tu	6:15r	11:02r	7:22r	9:24t			
10/20/2020 Tu	11:38t	15:33t	12:16t	15:45s	16:44r	12:50r	13:11r
10/20/2020 Tu	17:00s		17:11s			17:19t	17:45t
10/20/2020 Tu	18:20et	20:00s			23:06t	21:48s	22:19s
10/21/2020 W	4:56mt			3:04r	5:28s		
10/21/2020 W	6:16r		7:12r	9:25t			
10/21/2020 W	11:38t	12:08r	12:08t	15:44s		12:47r	13:07r
10/21/2020 W	16:59s	16:32t	17:06s		16:39r	17:15t	17:41t
10/21/2020 W	18:18et	20:56s			23:01t	21:44s	22:15s
10/22/2020 Th	4:58mt			3:07r	5:22s		
10/22/2020 Th	6:18r		7:01r	9:25t			
10/22/2020 Th	11:38t	13:04r	12:01t	15:43s	16:35r	12:43r	13:03r
10/22/2020 Th	16:57s	17:29t	17:01s			17:12t	17:37t
10/22/2020 Th	18:17et	21:57s			22:56t	21:41s	22:11s
10/23/2020 F	4:59mt			3:09r	5:17s		
10/23/2020 F	6:19r	6:23FQ	6:51r	9:26t			
10/23/2020 F	11:37t	13:49r	11:52t	15:42s	16:30r	12:40r	12:59r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/23/2020 F	16:55s		16:56s			17:09t	17:33t
10/23/2020 F	18:15et	18:23t			22:51t	21:38s	22:07s
10/23/2020 F		23:02s					
10/24/2020 Sat	5:00mt			3:11r	5:12s		
10/24/2020 Sat	6:20r		6:39r	9:26t			
10/24/2020 Sat	11:37t	14:26r	11:44t	15:40s	16:25r	12:36r	12:55r
10/24/2020 Sat	16:54s		16:50s			17:05t	17:30t
10/24/2020 Sat	18:14et	19:14t			22:46t	21:34s	22:04s
10/25/2020 Sun	5:01mt	0:08s		3:13r	5:07s		
10/25/2020 Sun	6:21r		6:28r	9:27t			
10/25/2020 Sun	11:37t	14:55r	11:36t	15:39s	16:20r	12:33r	12:52r
10/25/2020 Sun	16:52s		16:45s			17:02t	17:26t
10/25/2020 Sun	18:13et	20:00t			22:41t	21:31s	22:00s
10/26/2020 M	5:02mt	1:13s	6:17r	3:16r	5:02s		
10/26/2020 M	6:23r		11:28t	9:27t			
10/26/2020 M	11:37t	15:20r	16:40s	15:38s	16:15r	12:29r	12:48r
10/26/2020 M	16:51s					16:58t	17:22t
10/26/2020 M	18:11et	20:44t			22:36t	21:28s	21:56s
10/27/2020 Tu	5:04mt	2:16s	6:05r	3:18r	4:57s		
10/27/2020 Tu	6:24r		11:20t	9:28t			
10/27/2020 Tu	11:37t	15:43r	16:35s	15:37s	16:10r	12:26r	12:44r
10/27/2020 Tu	16:49s					16:55t	17:18t
10/27/2020 Tu	18:10et	21:25t			22:31t	21:24s	21:53s
10/28/2020 W	5:05mt	3:18s	5:55r	3:20r	4:52s		
10/28/2020 W	6:25r		11:12t	9:28t			
10/28/2020 W	11:37t	16:03r	16:30s	15:36s	16:06r	12:22r	12:40r
10/28/2020 W	16:48s					16:52t	17:15t
10/28/2020 W	18:08et	22:06t			22:26t	21:21s	21:49s
10/29/2020 Th	5:06mt	4:19s	5:45r	3:23r	4:47s		
10/29/2020 Th	6:27r		11:05t	9:29t			
10/29/2020 Th	11:37t	16:23r	16:26s	15:34s	16:01r	12:19r	12:36r
10/29/2020 Th	16:46s					16:48t	17:11t
10/29/2020 Th	18:07et	22:46t			22:22t	21:18s	21:45s
10/30/2020 F	5:07mt	5:20s	5:36r	3:25r	4:42s		
10/30/2020 F	6:28r		10:58t	9:30t			
10/30/2020 F	11:37t	16:44r	16:22s	15:33s	15:56r	12:15r	12:33r
10/30/2020 F	16:45s					16:45t	17:07t
10/30/2020 F	18:06et	23:27t			22:17t	21:15s	21:42s
10/31/2020 Sat	5:08mt	6:21s	5:27r	3:27r	4:38s		
10/31/2020 Sat	6:29r	7:49FM	10:52t	9:30t			
10/31/2020 Sat	11:37t		16:18s	15:32s	15:52r	12:12r	12:29r
10/31/2020 Sat	16:44s	17:07r				16:42t	17:03t
10/31/2020 Sat	18:05et				22:12t	21:11s	21:38s
11/01/2020 Sun	5:09mt	0:09t	5:20r	3:30r	4:33s		
11/01/2020 Sun	6:31r	7:23s	10:47t	9:31t			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/01/2020 Sun	11:37t		16:14s	15:31s	15:47r	12:08r	12:25r
11/01/2020 Sun	16:42s	17:32r				16:38t	17:00t
11/01/2020 Sun	18:03et				22:08t	21:08s	21:34s
11/02/2020 M	5:11mt	0:54t	5:14r	3:32r	4:28s		
11/02/2020 M	6:32r	8:26s	10:42t	9:31t			
11/02/2020 M	11:37t		16:11s	15:29s	15:42r	12:05r	12:21r
11/02/2020 M	16:41s	18:02r				16:35t	16:56t
11/02/2020 M	18:02et				22:03t	21:05s	21:31s
11/03/2020 Tu	5:12mt	1:40t	5:09r	3:34r	4:24s		
11/03/2020 Tu	6:33r	9:28s	10:38t	9:32t			
11/03/2020 Tu	11:37t		16:08s	15:28s	15:38r	12:02r	12:18r
11/03/2020 Tu	16:40s					16:32t	16:52t
11/03/2020 Tu	18:01et	18:37r			21:58t	21:02s	21:27s
11/04/2020 W	5:13mt	2:30t	5:05r	3:37r	4:19s		
11/04/2020 W	6:35r	10:28s	10:35t	9:32t			
11/04/2020 W	11:37t		16:05s	15:27s	15:33r	11:58r	12:14r
11/04/2020 W	16:38s					16:28t	16:49t
11/04/2020 W	18:00et	19:20r			21:54t	20:59s	21:23s
11/05/2020 Th	5:14mt	3:21t	5:02r	3:39r	4:15s		
11/05/2020 Th	6:36r	11:24s	10:32t	9:33t			
11/05/2020 Th	11:37t		16:02s	15:26s	15:29r	11:55r	12:10r
11/05/2020 Th	16:37s					16:25t	16:45t
11/05/2020 Th	17:59et	20:11r			21:50t	20:55s	21:20s
11/06/2020 F	5:15mt	4:14t	5:00r	3:42r	4:11s		
11/06/2020 F	6:37r		10:30t	9:34t			
11/06/2020 F	11:37t	12:14s	16:00s	15:25s	15:24r	11:51r	12:06r
11/06/2020 F	16:36s					16:22t	16:41t
11/06/2020 F	17:58et	21:11r			21:45t	20:52s	21:16s
11/07/2020 Sat	5:16mt	5:08t	4:58r	3:44r	4:06s		
11/07/2020 Sat	6:39r		10:28t	9:34t			
11/07/2020 Sat	11:37t	12:57s	15:58s	15:23s	15:20r	11:48r	12:03r
11/07/2020 Sat	16:35s					16:18t	16:38t
11/07/2020 Sat	17:57et	22:17r			21:41t	20:49s	21:12s
11/08/2020 Sun	5:18mt	6:01t	4:58r	3:46r	4:02s		
11/08/2020 Sun	6:40r	6:46LQ	10:27t	9:35t			
11/08/2020 Sun	11:37t	13:34s	15:56s	15:22s	15:15r	11:45r	11:59r
11/08/2020 Sun	16:34s					16:15t	16:34t
11/08/2020 Sun	17:56et	23:28r			21:36t	20:46s	21:09s
11/09/2020 M	5:19mt		4:58r	3:49r	3:58s		
11/09/2020 M	6:41r	6:53t	10:26t	9:35t			
11/09/2020 M	11:37t	14:05s	15:54s	15:21s	15:11r	11:41r	11:55r
11/09/2020 M	16:32s					16:12t	16:30t
11/09/2020 M	17:55et				21:32t	20:43s	21:05s
11/10/2020 Tu	5:20mt	0:41r	4:59r	3:51r	3:54s		
11/10/2020 Tu	6:43r	7:44t	10:26t	9:36t			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/10/2020 Tu	11:37t	14:34s	15:53s	15:20s	15:06r	11:38r	11:52r
11/10/2020 Tu	16:31s					16:09t	16:27t
11/10/2020 Tu	17:54et				21:28t	20:40s	21:02s
11/11/2020 W	5:21mt	1:57r	5:00r	3:54r	3:50s		
11/11/2020 W	6:44r	8:35t	10:26t	9:37t		11:34r	
11/11/2020 W	11:37t	15:00s	15:51s	15:19s	15:02r	16:05t	11:48r
11/11/2020 W	16:30s						16:23t
11/11/2020 W	17:53et				21:24t	20:37s	20:58s
11/12/2020 Th	5:22mt	3:14r	5:02r	3:56r	3:46s		
11/12/2020 Th	6:45r	9:27t	10:26t	9:37t		11:31r	
11/12/2020 Th	11:37t	15:26s	15:50s	15:17s	14:58r	16:02t	11:44r
11/12/2020 Th	16:29s						16:19t
11/12/2020 Th	17:52et				21:20t	20:33s	20:54s
11/13/2020 F	5:23mt	4:34r	5:05r	3:59r	3:42s		
11/13/2020 F	6:47r	10:20t	10:27t	9:38t		11:28r	
11/13/2020 F	11:38t	15:54s	15:49s	15:16s	14:54r	15:59t	11:41r
11/13/2020 F	16:28s						16:16t
11/13/2020 F	17:51et				21:16t	20:30s	20:51s
11/14/2020 Sat	5:25mt	5:55r	5:07r	4:01r	3:38s		
11/14/2020 Sat	6:48r	11:15t	10:28t	9:39t		11:24r	11:37r
11/14/2020 Sat	11:38t	16:25s	15:48s	15:15s	14:49r	15:56t	16:12t
11/14/2020 Sat	16:27s						
11/14/2020 Sat	17:50et	22:07NM			21:12t	20:27s	20:47s
11/15/2020 Sun	5:26mt		5:10r	4:04r	3:34s		
11/15/2020 Sun	6:49r	7:17r	10:29t	9:39t		11:21r	11:33r
11/15/2020 Sun	11:38t	12:14t	15:47s	15:14s	14:45r	15:53t	16:08t
11/15/2020 Sun	16:26s	17:02s					
11/15/2020 Sun	17:50et				21:08t	20:24s	20:44s
11/16/2020 M	5:27mt		5:14r	4:06r	3:31s		
11/16/2020 M	6:51r	8:37r	10:30t	9:40t		11:18r	11:29r
11/16/2020 M	11:38t	13:14t	15:46s	15:13s	14:41r	15:49t	16:05t
11/16/2020 M	16:25s	17:47s					
11/16/2020 M	17:49et				21:04t	20:21s	20:40s
11/17/2020 Tu	5:28mt		5:17r	4:08r	3:27s		
11/17/2020 Tu	6:52r	9:50r	10:32t	9:41t		11:14r	11:26r
11/17/2020 Tu	11:38t	14:16t	15:45s	15:12s	14:37r	15:46t	16:01t
11/17/2020 Tu	16:24s						
11/17/2020 Tu	17:48et	18:40s			21:00t	20:18s	20:37s
11/18/2020 W	5:29mt		5:21r	4:11r	3:24s		
11/18/2020 W	6:53r	10:54r	10:33t	9:41t		11:11r	11:22r
11/18/2020 W	11:39t	15:17t	15:45s	15:11s	14:33r	15:43t	15:58t
11/18/2020 W	16:24s						
11/18/2020 W	17:47et	19:41s			20:56t	20:15s	20:33s
11/19/2020 Th	5:30mt		5:25r	4:13r	3:20s		
11/19/2020 Th	6:54r		10:35t	9:42t		11:08r	11:18r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/19/2020 Th	11:39t	11:45r	15:44s	15:10s	14:29r	15:40t	15:54t
11/19/2020 Th	16:23s	16:14t					
11/19/2020 Th	17:47et	20:47s			20:53t	20:12s	20:30s
11/20/2020 F	5:31mt		5:29r	4:16r	3:17s		
11/20/2020 F	6:56r		10:37t	9:43t		11:04r	11:15r
11/20/2020 F	11:39t	12:26r	15:43s	15:09s	14:25r	15:37t	15:50t
11/20/2020 F	16:22s	17:07t					
11/20/2020 F	17:46et	21:55s			20:49t	20:09s	20:26s
11/21/2020 Sat	5:32mt		5:33r	4:18r	3:13s		
11/21/2020 Sat	6:57r		10:38t	9:43t		11:01r	11:11r
11/21/2020 Sat	11:39t	12:58r	15:43s	15:08s	14:21r	15:33t	15:47t
11/21/2020 Sat	16:21s						
11/21/2020 Sat	17:46et	17:56t			20:45t	20:06s	20:22s
11/21/2020 Sat		21:45FQ					
11/21/2020 Sat		23:02s					
11/22/2020 Sun	5:34mt		5:37r	4:21r	3:10s		
11/22/2020 Sun	6:58r		10:40t	9:44t		10:58r	11:07r
11/22/2020 Sun	11:40t	13:25r	15:43s	15:07s	14:17r	15:30t	15:43t
11/22/2020 Sun	16:20s						
11/22/2020 Sun	17:45et	18:42t			20:42t	20:03s	20:19s
11/23/2020 M	5:35mt	0:07s	5:41r	4:24r	3:07s		
11/23/2020 M	6:59r		10:42t	9:45t		10:54r	11:04r
11/23/2020 M	11:40t	13:48r	15:42s	15:06s	14:13r	15:27t	15:40t
11/23/2020 M	16:20s						
11/23/2020 M	17:45et	19:24t			20:38t	20:00s	20:15s
11/24/2020 Tu	5:36mt	1:09s	5:46r	4:26r	3:04s		
11/24/2020 Tu	7:01r		10:44t	9:46t		10:51r	11:00r
11/24/2020 Tu	11:40t	14:09r	15:42s	15:05s	14:09r	15:24t	15:36t
11/24/2020 Tu	16:19s						
11/24/2020 Tu	17:44et	20:05t			20:35t	19:57s	20:12s
11/25/2020 W	5:37mt	2:11s	5:50r	4:29r	3:00s		
11/25/2020 W	7:02r		10:46t	9:47t		10:48r	10:56r
11/25/2020 W	11:40t	14:29r	15:42s	15:04s	14:05r	15:21t	15:32t
11/25/2020 W	16:19s						
11/25/2020 W	17:44et	20:45t			20:31t	19:54s	20:08s
11/26/2020 Th	5:38mt	3:11s	5:54r	4:31r	2:57s		
11/26/2020 Th	7:03r		10:49t	9:47t		10:44r	10:53r
11/26/2020 Th	11:41t	14:50r	15:42s	15:03s	14:01r	15:18t	15:29t
11/26/2020 Th	16:18s						
11/26/2020 Th	17:43et	21:26t			20:28t	19:51s	20:05s
11/27/2020 F	5:39mt	4:12s	5:59r	4:34r	2:54s		
11/27/2020 F	7:04r		10:51t	9:48t		10:41r	10:49r
11/27/2020 F	11:41t	15:11r	15:42s	15:02s	13:57r	15:15t	15:25t
11/27/2020 F	16:18s						
11/27/2020 F	17:43et	22:07t			20:24t	19:48s	20:01s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/28/2020 Sat	5:40mt	5:14s	6:03r	4:36r	2:51s		
11/28/2020 Sat	7:05r		10:53t	9:49t		10:38r	10:45r
11/28/2020 Sat	11:41t	15:36r	15:42s	15:01s	13:54r	15:11t	15:22t
11/28/2020 Sat	16:17s						
11/28/2020 Sat	17:43et	22:51t			20:21t	19:45s	19:58s
11/29/2020 Sun	5:41mt	6:17s	6:08r	4:39r	2:49s		
11/29/2020 Sun	7:07r		10:55t	9:50t		10:35r	10:42r
11/29/2020 Sun	11:42t	16:04r	15:42s	15:00s	13:50r	15:08t	15:18t
11/29/2020 Sun	16:17s						
11/29/2020 Sun	17:42et	23:37t			20:18t	19:42s	19:55s
11/30/2020 M	5:42mt	2:30FM	6:12r	4:41r	2:46s		
11/30/2020 M	7:08r	7:20s	10:58t	9:51t		10:31r	10:38r
11/30/2020 M	11:42t		15:42s	15:00s	13:46r	15:05t	15:15t
11/30/2020 M	16:16s	16:37r					
11/30/2020 M	17:42et				20:14t	19:39s	19:51s
12/01/2020 Tu	5:43mt	0:26t	6:17r	4:44r	2:43s		
12/01/2020 Tu	7:09r	8:22s	11:00t	9:52t		10:28r	10:35r
12/01/2020 Tu	11:42t		15:43s	14:59s	13:43r	15:02t	15:11t
12/01/2020 Tu	16:16s	17:18r					
12/01/2020 Tu	17:42et				20:11t	19:36s	19:48s
12/02/2020 W	5:44mt	1:17t	6:21r	4:47r	2:40s		
12/02/2020 W	7:10r	9:20s	11:03t	9:53t		10:25r	10:31r
12/02/2020 W	11:43t		15:43s	14:58s	13:39r	14:59t	15:08t
12/02/2020 W	16:16s						
12/02/2020 W	17:42et	18:07r			20:08t	19:33s	19:44s
12/03/2020 Th	5:45mt	2:10t	6:26r	4:49r	2:38s		
12/03/2020 Th	7:11r	10:12s	11:05t	9:54t		10:21r	10:27r
12/03/2020 Th	11:43t		15:44s	14:57s	13:35r	14:56t	15:04t
12/03/2020 Th	16:15s						
12/03/2020 Th	17:42et	19:04r			20:05t	19:30s	19:41s
12/04/2020 F	5:46mt	3:04t	6:30r	4:52r	2:35s		
12/04/2020 F	7:12r	10:57s	11:08t	9:55t		10:18r	10:24r
12/04/2020 F	11:44t		15:44s	14:57s	13:32r	14:53t	15:00t
12/04/2020 F	16:15s						
12/04/2020 F	17:42et	20:08r			20:02t	19:27s	19:37s
12/05/2020 Sat	5:46mt	3:57t	6:35r	4:54r	2:32s		
12/05/2020 Sat	7:13r	11:36s	11:10t	9:56t		10:15r	10:20r
12/05/2020 Sat	11:44t		15:45s	14:56s	13:28r	14:50t	14:57t
12/05/2020 Sat	16:15s						
12/05/2020 Sat	17:42et	21:17r			19:59t	19:25s	19:34s
12/06/2020 Sun	5:47mt	4:48t	6:39r	4:57r	2:30s		
12/06/2020 Sun	7:14r		11:13t	9:57t		10:12r	10:16r
12/06/2020 Sun	11:45t	12:08s	15:46s	14:56s	13:24r	14:47t	14:53t
12/06/2020 Sun	16:15s						
12/06/2020 Sun	17:41et	22:28r			19:56t	19:22s	19:30s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/07/2020 M	5:48mt	5:39t	6:43r	5:00r	2:27s		
12/07/2020 M	7:15r		11:15t	9:58t		10:08r	10:13r
12/07/2020 M	11:45t	12:37s	15:47s	14:55s	13:21r	14:44t	14:50t
12/07/2020 M	16:15s	17:37LQ					
12/07/2020 M	17:42et	23:40r			19:53t	19:19s	19:27s
12/08/2020 Tu	5:49mt	6:28t	6:48r	5:02r	2:25s		
12/08/2020 Tu	7:16r		11:18t	9:59t		10:05r	10:09r
12/08/2020 Tu	11:45t	13:02s	15:48s	14:55s	13:17r	14:40t	14:46t
12/08/2020 Tu	16:15s						
12/08/2020 Tu	17:42et				19:50t	19:16s	19:23s
12/09/2020 W	5:50mt	0:54r	6:52r	5:05r	2:23s		
12/09/2020 W	7:17r	7:17t	11:21t	10:00t		10:02r	10:06r
12/09/2020 W	11:46t	13:27s	15:49s	14:54s	13:14r	14:37t	14:43t
12/09/2020 W	16:15s						
12/09/2020 W	17:42et				19:47t	19:13s	19:20s
12/10/2020 Th	5:51mt	2:09r	6:56r	5:07r	2:20s		
12/10/2020 Th	7:18r	8:07t	11:24t	10:01t		9:59r	10:02r
12/10/2020 Th	11:46t	13:53s	15:50s	14:54s	13:10r	14:34t	14:39t
12/10/2020 Th	16:15s						
12/10/2020 Th	17:42et				19:44t	19:10s	19:17s
12/11/2020 F	5:51mt	3:27r	7:01r	5:10r	2:18s		
12/11/2020 F	7:19r	8:59t	11:26t	10:02t		9:55r	9:58r
12/11/2020 F	11:47t	14:21s	15:52s	14:53s	13:07r	14:31t	14:36t
12/11/2020 F	16:15s						
12/11/2020 F	17:42et				19:41t	19:07s	19:13s
12/12/2020 Sat	5:52mt	4:46r	7:05r	5:12r	2:16s		
12/12/2020 Sat	7:19r	9:55t	11:29t	10:03t		9:52r	9:55r
12/12/2020 Sat	11:47t	14:54s	15:53s	14:53s	13:04r	14:28t	14:32t
12/12/2020 Sat	16:15s						
12/12/2020 Sat	17:42et				19:38t	19:04s	19:10s
12/13/2020 Sun	5:53mt	6:06r	7:09r	5:15r	2:13s		
12/13/2020 Sun	7:20r	10:53t	11:32t	10:04t		9:49r	9:51r
12/13/2020 Sun	11:48t	15:33s	15:55s	14:53s	13:00r	14:25t	14:29t
12/13/2020 Sun	16:15s						
12/13/2020 Sun	17:42et				19:36t	19:02s	19:06s
12/14/2020 M	5:54mt		7:13r	5:18r	2:11s		
12/14/2020 M	7:21r	7:24r					
12/14/2020 M	11:48t	9:17NM	11:35t	10:05t		9:46r	9:48r
12/14/2020 M	16:15s	11:55t	15:57s	14:53s	12:57r	14:22t	14:25t
12/14/2020 M	17:43et	16:22s			19:33t	18:59s	19:03s
12/15/2020 Tu	5:54mt		7:17r	5:20r	2:09s		
12/15/2020 Tu	7:22r	8:33r	11:38t	10:07t		9:42r	9:44r
12/15/2020 Tu	11:49t	12:57t	15:58s	14:52s	12:53r	14:19t	14:22t
12/15/2020 Tu	16:16s	17:20s					
12/15/2020 Tu	17:43et				19:30t	18:56s	19:00s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/16/2020 W	5:55mt		7:21r	5:23r	2:07s		
12/16/2020 W	7:22r	9:32r	11:41t	10:08t		9:39r	9:40r
12/16/2020 W	11:49t	13:57t	16:00s	14:52s	12:50r	14:16t	14:18t
12/16/2020 W	16:16s						
12/16/2020 W	17:43et	18:25s			19:27t	18:53s	18:56s
12/17/2020 Th	5:56mt			5:25r	2:05s		
12/17/2020 Th	7:23r	10:20r	7:24r	10:09t		9:36r	9:37r
12/17/2020 Th	11:50t	14:55t	11:44t	14:52s	12:47r	14:13t	14:15t
12/17/2020 Th	16:16s		16:03s				
12/17/2020 Th	17:44et	19:35s			19:25t	18:50s	18:53s
12/18/2020 F	5:56mt			5:28r	2:03s		
12/18/2020 F	7:24r	10:57r	7:28r	10:10t		9:33r	9:33r
12/18/2020 F	11:50t	15:47t	11:47t	14:52s	12:44r	14:10t	14:11t
12/18/2020 F	16:17s		16:05s				
12/18/2020 F	17:44et	20:45s			19:22t	18:47s	18:49s
12/19/2020 Sat	5:57mt			5:30r	2:01s		
12/19/2020 Sat	7:24r	11:27r	7:32r	10:11t		9:29r	9:30r
12/19/2020 Sat	11:51t		11:50t	14:52s	12:40r	14:07t	14:08t
12/19/2020 Sat	16:17s	16:35t	16:07s				
12/19/2020 Sat	17:45et	21:52s			19:19t	18:45s	18:46s
12/20/2020 Sun	5:57mt			5:33r	1:59s		
12/20/2020 Sun	7:25r		7:35r	10:13t		9:26r	9:26r
12/20/2020 Sun	11:51t	11:52r	11:53t	14:52s	12:37r	14:04t	14:04t
12/20/2020 Sun	16:17s	17:20t	16:10s				
12/20/2020 Sun	17:45et	22:57s			19:17t	18:42s	18:43s
12/21/2020 M	3:02DS			5:35r	1:57s		
12/21/2020 M	5:58mt						
12/21/2020 M	7:25r		7:39r	10:14t		9:23r	9:22r
12/21/2020 M	11:52t	12:14r	11:56t	14:53s	12:34r	14:01t	14:01t
12/21/2020 M	16:18s	16:41FQ	16:13s				
12/21/2020 M	17:45et	18:02t			19:14t	18:39s	18:39s
12/21/2020 M		24:00s					
12/22/2020 Tu	5:58mt			5:37r	1:55s		
12/22/2020 Tu	7:26r		7:42r	10:15t		9:20r	9:19r
12/22/2020 Tu	11:52t	12:34r	11:59t	14:53s	12:31r	13:58t	13:57t
12/22/2020 Tu	16:18s		16:16s				
12/22/2020 Tu	17:46et	18:42t			19:12t	18:36s	18:36s
12/23/2020 W	5:59mt	1:01s		5:40r	1:53s		
12/23/2020 W	7:26r		7:45r	10:17t		9:16r	9:15r
12/23/2020 W	11:53t	12:55r	12:02t	14:53s	12:27r	13:55t	13:54t
12/23/2020 W	16:19s		16:19s				
12/23/2020 W	17:47et	19:23t			19:09t	18:33s	18:32s
12/24/2020 Th	5:59mt	2:02s		5:42r	1:51s		
12/24/2020 Th	7:27r		7:49r	10:18t		9:13r	9:12r
12/24/2020 Th	11:53t	13:15r	12:05t	14:53s	12:24r	13:52t	13:50t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/24/2020 Th	16:20s		16:22s				
12/24/2020 Th	17:47et	20:04t			19:07t	18:31s	18:29s
12/25/2020 F	6:00mt	3:03s		5:45r	1:49s		
12/25/2020 F	7:27r		7:52r	10:19t		9:10r	9:08r
12/25/2020 F	11:54t	13:38r	12:08t	14:54s	12:21r	13:49t	13:47t
12/25/2020 F	16:20s		16:25s				
12/25/2020 F	17:48et	20:47t			19:04t	18:28s	18:26s
12/26/2020 Sat	6:00mt	4:06s		5:47r	1:48s		
12/26/2020 Sat	7:27r		7:54r	10:21t		9:07r	9:04r
12/26/2020 Sat	11:54t	14:05r	12:11t	14:54s	12:18r	13:46t	13:43t
12/26/2020 Sat	16:21s		16:28s				
12/26/2020 Sat	17:48et	21:32t			19:02t	18:25s	18:22s
12/27/2020 Sun	6:00mt	5:09s		5:49r	1:46s		
12/27/2020 Sun	7:28r		7:57r	10:22t		9:04r	9:01r
12/27/2020 Sun	11:55t	14:36r	12:14t	14:55s	12:15r	13:43t	13:40t
12/27/2020 Sun	16:22s		16:32s				
12/27/2020 Sun	17:49et	22:20t			18:59t	18:22s	18:19s
12/28/2020 M	6:00mt	6:12s		5:51r	1:44s		
12/28/2020 M	7:28r		8:00r	10:24t		9:00r	8:57r
12/28/2020 M	11:55t	15:15r	12:18t	14:55s	12:12r	13:40t	13:36t
12/28/2020 M	16:23s		16:36s				
12/28/2020 M	17:50et	23:11t			18:57t	18:20s	18:16s
12/29/2020 Tu	6:01mt	7:12s		5:54r	1:43s		
12/29/2020 Tu	7:28r		8:02r	10:25t		8:57r	8:54r
12/29/2020 Tu	11:56t	16:01r	12:21t	14:56s	12:09r	13:37t	13:33t
12/29/2020 Tu	16:23s		16:39s				
12/29/2020 Tu	17:51et	20:28FM			18:55t	18:17s	18:12s
12/30/2020 W	6:01mt	0:04t		5:56r	1:41s		
12/30/2020 W	7:28r	8:07s	8:05r	10:26t		8:54r	8:50r
12/30/2020 W	11:56t		12:24t	14:57s	12:06r	13:34t	13:30t
12/30/2020 W	16:24s	16:56r	16:43s				
12/30/2020 W	17:51et				18:52t	18:14s	18:09s
12/31/2020 Th	6:01mt	0:58t		5:58r	1:39s		
12/31/2020 Th	7:28r	8:56s	8:07r	10:28t		8:51r	8:47r
12/31/2020 Th	11:57t		12:27t	14:58s	12:02r	13:31t	13:26t
12/31/2020 Th	16:25s		16:47s				
12/31/2020 Th	17:52et	17:59r			18:50t	18:11s	18:06s
01/01/2021 F	6:01mt	1:53t		6:00r	1:38s		
01/01/2021 F	7:28r	9:37s	8:09r	10:29t		8:47r	8:43r
01/01/2021 F	11:57t		12:30t	14:58s	11:59r	13:28t	13:23t
01/01/2021 F	16:26s		16:52s				
01/01/2021 F	17:53et	19:08r			18:48t	18:09s	18:02s
01/02/2021 Sat	6:01mt	2:45t		6:02r	1:36s		
01/02/2021 Sat	7:28r	10:11s	8:11r	10:31t	11:56r	8:44r	8:39r
01/02/2021 Sat	11:57t		12:33t	14:59s		13:25t	13:19t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/02/2021 Sat	16:27s		16:56s				
01/02/2021 Sat	17:54et	20:19r			18:45t	18:06s	17:59s
01/03/2021 Sun	6:01mt	3:36t		6:04r	1:34s		
01/03/2021 Sun	7:28r	10:41s	8:13r	10:32t	11:53r	8:41r	8:36r
01/03/2021 Sun	11:58t		12:37t	15:00s		13:22t	13:16t
01/03/2021 Sun	16:28s		17:00s				
01/03/2021 Sun	17:55et	21:31r			18:43t	18:03s	17:56s
01/04/2021 M	6:02mt	4:26t		6:06r	1:33s		
01/04/2021 M	7:28r	11:07s	8:15r	10:34t	11:50r	8:38r	8:32r
01/04/2021 M	11:58t		12:40t	15:01s		13:19t	13:12t
01/04/2021 M	16:29s		17:05s				17:52s
01/04/2021 M	17:55et	22:44r			18:41t	18:00s	
01/05/2021 Tu	6:02mt	5:14t		6:08r	1:31s		
01/05/2021 Tu	7:28r	11:32s	8:16r	10:35t	11:47r	8:34r	8:29r
01/05/2021 Tu	11:59t		12:43t	15:02s		13:16t	13:09t
01/05/2021 Tu	16:30s		17:10s				17:49s
01/05/2021 Tu	17:56et	23:57r			18:38t	17:58s	
01/06/2021 W	6:01mt	2:37LQ			1:30s		
01/06/2021 W	7:28r	6:02t	8:18r	6:10r		8:31r	8:25r
01/06/2021 W	11:59t	11:56s	12:46t	10:37t	11:45r	13:13t	13:05t
01/06/2021 W	16:31s		17:14s	15:04s		17:55s	17:46s
01/06/2021 W	17:57et					18:36t	
01/07/2021 Th	6:01mt	1:11r		6:12r	1:28s		
01/07/2021 Th	7:28r	6:52t	8:19r	10:38t	11:42r	8:28r	8:22r
01/07/2021 Th	12:00t	12:22s	12:49t	15:05s		13:10t	13:02t
01/07/2021 Th	16:32s		17:19s			17:52s	17:42s
01/07/2021 Th	17:58et					18:34t	
01/08/2021 F	6:01mt	2:27r		6:13r	1:27s		
01/08/2021 F	7:28r	7:44t	8:20r	10:40t	11:39r	8:25r	8:18r
01/08/2021 F	12:00t	12:52s	12:52t	15:06s		13:07t	12:58t
01/08/2021 F	16:33s		17:24s			17:49s	17:39s
01/08/2021 F	17:59et					18:32t	
01/09/2021 Sat	6:01mt	3:44r		6:15r	1:26s		
01/09/2021 Sat	7:27r	8:39t	8:21r	10:41t	11:36r	8:22r	8:14r
01/09/2021 Sat	12:01t	13:27s	12:55t	15:07s		13:04t	12:55t
01/09/2021 Sat	16:34s		17:29s			17:47s	17:36s
01/09/2021 Sat	18:00et					18:30t	
01/10/2021 Sun	6:01mt	5:00r		6:17r	1:24s		
01/10/2021 Sun	7:27r	9:38t	8:22r	10:43t	11:33r	8:18r	8:11r
01/10/2021 Sun	12:01t	14:10s	12:57t	15:09s		13:01t	12:52t
01/10/2021 Sun	16:35s		17:34s			17:44s	17:32s
01/10/2021 Sun	18:01et					18:28t	
01/11/2021 M	6:01mt	6:12r		6:18r	1:23s		
01/11/2021 M	7:27r	10:38t	8:23r	10:44t	11:30r	8:15r	8:07r
01/11/2021 M	12:01t	15:02s	13:00t	15:10s		12:58t	12:48t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/11/2021 M	16:36s		17:39s			17:41s	17:29s
01/11/2021 M	18:02et				18:25t		
01/12/2021 Tu	6:01mt	7:16r		6:20r	1:21s		
01/12/2021 Tu	7:26r	11:39t	8:23r	10:46t	11:27r	8:12r	8:04r
01/12/2021 Tu	12:02t	16:04s	13:03t	15:12s		12:55t	12:45t
01/12/2021 Tu	16:38s		17:44s			17:39s	17:26s
01/12/2021 Tu	18:03et	22:00NM			18:23t		
01/13/2021 W	6:00mt			6:21r	1:20s		
01/13/2021 W	7:26r	8:09r	8:23r	10:47t	11:24r	8:09r	8:00r
01/13/2021 W	12:02t	12:38t	13:05t	15:13s		12:52t	12:41t
01/13/2021 W	16:39s	17:12s	17:48s			17:36s	17:22s
01/13/2021 W	18:04et				18:21t		
01/14/2021 Th	6:00mt			6:23r	1:19s		
01/14/2021 Th	7:25r	8:51r	8:23r	10:49t	11:21r	8:05r	7:57r
01/14/2021 Th	12:02t	13:34t	13:08t	15:15s		12:49t	12:38t
01/14/2021 Th	16:40s		17:53s			17:33s	17:19s
01/14/2021 Th	18:05et	18:23s			18:19t		
01/15/2021 F	6:00mt			6:24r	1:17s		
01/15/2021 F	7:25r	9:25r	8:23r	10:50t	11:19r	8:02r	7:53r
01/15/2021 F	12:03t	14:25t	13:10t	15:17s		12:46t	12:34t
01/15/2021 F	16:41s		17:58s			17:30s	17:16s
01/15/2021 F	18:06et	19:33s			18:17t		
01/16/2021 Sat	5:59mt			6:25r	1:16s		
01/16/2021 Sat	7:24r	9:52r	8:23r	10:52t	11:16r	7:59r	7:50r
01/16/2021 Sat	12:03t	15:12t	13:12t	15:18s		12:43t	12:31t
01/16/2021 Sat	16:42s		18:02s			17:28s	17:12s
01/16/2021 Sat	18:07et	20:40s			18:15t		
01/17/2021 Sun	5:59mt			6:26r	1:15s		
01/17/2021 Sun	7:24r	10:16r	8:22r	10:53t	11:13r	7:56r	7:46r
01/17/2021 Sun	12:03t	15:56t	13:14t	15:20s		12:40t	12:27t
01/17/2021 Sun	16:44s		18:07s			17:25s	17:09s
01/17/2021 Sun	18:09et	21:45s			18:13t		
01/18/2021 M	5:58mt			6:28r	1:14s		
01/18/2021 M	7:23r	10:37r	8:22r	10:55t	11:10r	7:53r	7:42r
01/18/2021 M	12:04t	16:37t	13:16t	15:22s		12:37t	12:24t
01/18/2021 M	16:45s					17:22s	17:06s
01/18/2021 M	18:10et	22:48s	18:11s		18:11t		
01/19/2021 Tu	5:58mt			6:29r	1:12s		
01/19/2021 Tu	7:22r	10:58r	8:21r	10:56t	11:07r	7:49r	7:39r
01/19/2021 Tu	12:04t		13:17t	15:24s		12:34t	12:21t
01/19/2021 Tu	16:46s	17:18t			18:09t	17:20s	17:02s
01/19/2021 Tu	18:11et	23:49s	18:15s				
01/20/2021 W	5:57mt			6:30r	1:11s		
01/20/2021 W	7:22r	11:18r	8:19r	10:58t	11:05r	7:46r	7:35r
01/20/2021 W	12:04t	14:02FQ	13:18t	15:26s		12:31t	12:17t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/20/2021 W	16:48s	17:59t			18:07t	17:17s	16:59s
01/20/2021 W	18:12et		18:19s				
01/21/2021 Th	5:57mt	0:51s		6:31r	1:10s		
01/21/2021 Th	7:21r	11:40r	8:18r	10:59t	11:02r	7:43r	7:32r
01/21/2021 Th	12:05t		13:19t	15:28s		12:28t	12:14t
01/21/2021 Th	16:49s				18:05t	17:14s	16:56s
01/21/2021 Th	18:13et	18:41t	18:22s				
01/22/2021 F	5:56mt	1:53s		6:32r	1:09s		
01/22/2021 F	7:20r		8:16r	11:01t	10:59r	7:40r	7:28r
01/22/2021 F	12:05t	12:05r	13:20t	15:30s		12:25t	12:10t
01/22/2021 F	16:50s				18:03t	17:11s	16:52s
01/22/2021 F	18:14et	19:25t	18:25s				
01/23/2021 Sat	5:55mt	2:55s		6:32r	1:08s		
01/23/2021 Sat	7:19r		8:13r	11:02t	10:56r	7:36r	7:25r
01/23/2021 Sat	12:05t	12:34r	13:20t	15:32s		12:23t	12:07t
01/23/2021 Sat	16:52s				18:01t	17:09s	16:49s
01/23/2021 Sat	18:15et	20:11t	18:27s				
01/24/2021 Sun	5:55mt	3:58s		6:33r	1:06s		
01/24/2021 Sun	7:18r		8:11r	11:04t	10:54r	7:33r	7:21r
01/24/2021 Sun	12:05t	13:09r	13:19t	15:34s		12:20t	12:03t
01/24/2021 Sun	16:53s				17:59t	17:06s	16:46s
01/24/2021 Sun	18:17et	21:01t	18:29s				
01/25/2021 M	5:54mt	4:59s		6:34r	1:05s		7:17r
01/25/2021 M	7:17r		8:08r	11:05t	10:51r	7:30r	12:00t
01/25/2021 M	12:06t	13:52r	13:18t	15:36s		12:17t	16:42s
01/25/2021 M	16:54s				17:57t	17:03s	
01/25/2021 M	18:18et	21:53t	18:30s				
01/26/2021 Tu	5:53mt	5:57s		6:35r	1:04s		7:14r
01/26/2021 Tu	7:17r		8:04r	11:06t	10:48r	7:27r	11:56t
01/26/2021 Tu	12:06t	14:44r	13:17t	15:39s		12:14t	16:39s
01/26/2021 Tu	16:56s				17:56t	17:01s	
01/26/2021 Tu	18:19et	22:48t	18:30s				
01/27/2021 W	5:53mt	6:49s		6:35r	1:03s		7:10r
01/27/2021 W	7:16r		8:00r	11:08t	10:46r	7:23r	11:53t
01/27/2021 W	12:06t	15:45r	13:15t	15:41s		12:11t	16:36s
01/27/2021 W	16:57s				17:54t	16:58s	
01/27/2021 W	18:20et	23:43t	18:30s				
01/28/2021 Th	5:52mt			6:36r	1:02s		7:07r
01/28/2021 Th	7:15r	7:33s	7:56r	11:09t	10:43r	7:20r	11:50t
01/28/2021 Th	12:06t	12:16FM	13:12t	15:43s		12:08t	16:32s
01/28/2021 Th	16:58s	16:53r			17:52t	16:55s	
01/28/2021 Th	18:21et		18:29s				
01/29/2021 F	5:51mt	0:38t		6:36r	1:01s		7:03r
01/29/2021 F	7:14r	8:11s	7:51r	11:11t	10:41r	7:17r	11:46t
01/29/2021 F	12:06t		13:09t	15:46s		12:05t	16:29s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
01/29/2021 F	17:00s	18:06r			17:50t	16:53s	
01/29/2021 F	18:22et		18:27s				
01/30/2021 Sat	5:50mt	1:30t		6:37r	1:00s		7:00r
01/30/2021 Sat	7:13r	8:43s	7:46r	11:12t	10:38r	7:14r	11:43t
01/30/2021 Sat	12:07t		13:05t	15:48s		12:02t	16:26s
01/30/2021 Sat	17:01s		18:24s		17:48t	16:50s	
01/30/2021 Sat	18:24et	19:19r					
01/31/2021 Sun	5:49mt	2:22t		6:37r	0:59s	7:10r	6:56r
01/31/2021 Sun	7:11r	9:10s	7:40r	11:13t	10:35r	11:59t	11:39t
01/31/2021 Sun	12:07t		13:00t	15:50s		16:47s	16:23s
01/31/2021 Sun	17:02s		18:19s		17:46t		
01/31/2021 Sun	18:25et	20:34r					
02/01/2021 M	5:48mt	3:11t		6:37r	0:58s	7:07r	6:52r
02/01/2021 M	7:10r	9:36s	7:34r	11:15t	10:33r	11:56t	11:36t
02/01/2021 M	12:07t		12:54t	15:53s		16:45s	16:19s
02/01/2021 M	17:04s		18:14s		17:44t		
02/01/2021 M	18:26et	21:48r					
02/02/2021 Tu	5:47mt	4:00t		6:37r	0:57s	7:04r	6:49r
02/02/2021 Tu	7:09r	10:01s	7:28r	11:16t	10:30r	11:53t	11:32t
02/02/2021 Tu	12:07t		12:48t	15:55s		16:42s	16:16s
02/02/2021 Tu	17:05s		18:08s		17:43t		
02/02/2021 Tu	18:27et	23:02r					
02/03/2021 W	5:46mt	4:49t		6:38r	0:56s	7:01r	6:45r
02/03/2021 W	7:08r	10:26s	7:21r	11:17t	10:28r	11:50t	11:29t
02/03/2021 W	12:07t		12:41t	15:58s		16:39s	16:13s
02/03/2021 W	17:07s		18:01s		17:41t		
02/03/2021 W	18:29et						
02/04/2021 Th		0:17r			0:55s		
02/04/2021 Th	5:45mt	5:40t		6:38r		6:57r	6:42r
02/04/2021 Th	7:07r	10:37LQ	7:14r		10:25r		
02/04/2021 Th	12:07t	10:54s	12:34t	11:19t		11:47t	11:25t
02/04/2021 Th	17:08s		17:54s	16:00s	17:39t	16:36s	16:09s
02/04/2021 Th	18:30et						
02/05/2021 F	5:44mt	1:32r			0:53s		
02/05/2021 F	7:06r	6:33t	7:07r	6:38r	10:23r	6:54r	6:38r
02/05/2021 F	12:07t	11:26s	12:26t	11:20t		11:44t	11:22t
02/05/2021 F	17:09s		17:45s	16:03s	17:37t	16:34s	16:06s
02/05/2021 F	18:31et						
02/06/2021 Sat	5:43mt	2:48r	6:59r	6:38r	0:52s	6:51r	6:35r
02/06/2021 Sat	7:04r	7:29t		11:21t	10:20r	11:41t	11:19t
02/06/2021 Sat	12:07t	12:05s	12:18t	16:05s		16:31s	16:03s
02/06/2021 Sat	17:11s		17:36s		17:36t		
02/06/2021 Sat	18:32et						
02/07/2021 Sun	5:42mt	4:00r	6:52r	6:38r	0:51s	6:48r	6:31r
02/07/2021 Sun	7:03r	8:28t		11:22t	10:17r	11:38t	11:15t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/07/2021 Sun	12:07t	12:53s	12:09t	16:08s		16:28s	15:59s
02/07/2021 Sun	17:12s		17:27s		17:34t		
02/07/2021 Sun	18:33et						
02/08/2021 M	5:41mt	5:05r	6:44r	6:37r	0:50s	6:44r	6:27r
02/08/2021 M	7:02r	9:27t	12:01t	11:24t	10:15r	11:35t	11:12t
02/08/2021 M	12:07t	13:49s		16:10s		16:26s	15:56s
02/08/2021 M	17:14s		17:17s		17:32t		
02/08/2021 M	18:35et						
02/09/2021 Tu	5:39mt	6:00r	6:37r	6:37r	0:49s	6:41r	6:24r
02/09/2021 Tu	7:00r	10:26t	11:52t	11:25t	10:13r	11:32t	11:08t
02/09/2021 Tu	12:07t	14:54s	17:07s	16:13s		16:23s	15:53s
02/09/2021 Tu	17:15s				17:30t		
02/09/2021 Tu	18:36et						
02/10/2021 W	5:38mt	6:46r	6:30r	6:37r	0:49s	6:38r	6:20r
02/10/2021 W	6:59r	11:22t	11:44t	11:26t	10:10r	11:29t	11:05t
02/10/2021 W	12:07t	16:03s	16:57s	16:15s		16:20s	15:49s
02/10/2021 W	17:16s				17:29t		
02/10/2021 W	18:37et						
02/11/2021 Th	5:37mt		6:23r	6:37r	0:48s	6:35r	6:17r
02/11/2021 Th	6:58r	7:22r	11:36t	11:27t	10:08r	11:26t	11:01t
02/11/2021 Th	12:07t	12:06NM					
02/11/2021 Th		12:14t	16:47s	16:18s		16:18s	15:46s
02/11/2021 Th	17:18s	17:13s			17:27t		
02/11/2021 Th	18:38et						
02/12/2021 F	5:36mt		6:17r	6:36r	0:47s	6:31r	6:13r
02/12/2021 F	6:56r	7:52r	11:28t	11:28t	10:05r	11:23t	10:58t
02/12/2021 F	12:07t	13:03t	16:38s	16:21s		16:15s	15:43s
02/12/2021 F	17:19s	18:22s			17:25t		
02/12/2021 F	18:40et						
02/13/2021 Sat	5:34mt		6:11r	6:36r	0:46s	6:28r	6:10r
02/13/2021 Sat	6:55r	8:17r	11:20t	11:29t	10:03r	11:20t	10:54t
02/13/2021 Sat	12:07t	13:48t	16:29s	16:23s		16:12s	15:39s
02/13/2021 Sat	17:21s				17:24t		
02/13/2021 Sat	18:41et	19:29s					
02/14/2021 Sun	5:33mt		6:05r	6:36r	0:45s	6:25r	6:06r
02/14/2021 Sun	6:53r	8:39r	11:13t	11:30t	10:00r	11:17t	10:51t
02/14/2021 Sun	12:07t	14:31t	16:21s	16:26s	17:22t	16:10s	15:36s
02/14/2021 Sun	17:22s						
02/14/2021 Sun	18:42et	20:33s					
02/15/2021 M	5:32mt		6:00r	6:35r	0:44s	6:21r	6:02r
02/15/2021 M	6:52r	9:00r	11:06t	11:32t	9:58r	11:14t	10:47t
02/15/2021 M	12:07t	15:13t	16:13s	16:29s	17:20t	16:07s	15:33s
02/15/2021 M	17:23s						
02/15/2021 M	18:43et	21:36s					
02/16/2021 Tu	5:30mt		5:55r	6:35r	0:43s	6:18r	5:59r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/16/2021 Tu	6:50r	9:21r	11:00t	11:33t	9:56r	11:11t	10:44t
02/16/2021 Tu	12:07t	15:54t	16:05s	16:31s	17:19t	16:04s	15:29s
02/16/2021 Tu	17:25s						
02/16/2021 Tu	18:45et	22:38s					
02/17/2021 W	5:29mt		5:50r	6:34r	0:42s	6:15r	5:55r
02/17/2021 W	6:49r	9:42r	10:55t	11:34t	9:53r	11:08t	10:41t
02/17/2021 W	12:07t	16:35t	15:59s	16:34s	17:17t	16:01s	15:26s
02/17/2021 W	17:26s						
02/17/2021 W	18:46et	23:40s					
02/18/2021 Th	5:28mt		5:46r	6:33r	0:41s	6:12r	5:52r
02/18/2021 Th	6:47r	10:05r	10:50t	11:35t	9:51r	11:05t	10:37t
02/18/2021 Th	12:07t	17:18t	15:52s	16:37s	17:15t	15:59s	15:23s
02/18/2021 Th	17:27s						
02/18/2021 Th	18:47et						
02/19/2021 F	5:26mt	0:42s	5:43r	6:33r	0:40s	6:08r	5:48r
02/19/2021 F	6:46r	10:32r	10:45t	11:36t	9:49r	11:02t	10:34t
02/19/2021 F	12:07t	11:47FQ	15:47s	16:39s	17:14t	15:56s	15:19s
02/19/2021 F	17:29s	18:03t					
02/19/2021 F	18:49et						
02/20/2021 Sat	5:25mt	1:44s	5:40r	6:32r	0:39s	6:05r	5:44r
02/20/2021 Sat	6:44r	11:04r	10:41t	11:37t	9:46r	10:59t	10:30t
02/20/2021 Sat	12:07t		15:42s	16:42s	17:12t	15:53s	15:16s
02/20/2021 Sat	17:30s						
02/20/2021 Sat	18:50et	18:51t					
02/21/2021 Sun	5:23mt	2:46s	5:37r	6:31r	0:38s	6:02r	5:41r
02/21/2021 Sun	6:43r	11:43r	10:37t	11:38t	9:44r	10:56t	10:27t
02/21/2021 Sun	12:07t		15:38s	16:44s	17:10t	15:51s	15:13s
02/21/2021 Sun	17:31s						
02/21/2021 Sun	18:51et	19:42t					
02/22/2021 M	5:22mt	3:45s	5:34r	6:31r	0:37s	5:58r	5:37r
02/22/2021 M	6:41r		10:34t	11:38t	9:42r	10:53t	10:23t
02/22/2021 M	12:07t	12:30r	15:34s	16:47s	17:09t	15:48s	15:09s
02/22/2021 M	17:33s						
02/22/2021 M	18:52et	20:35t					
02/23/2021 Tu	5:20mt	4:39s	5:32r	6:30r	0:36s	5:55r	5:34r
02/23/2021 Tu	6:40r		10:32t	11:39t	9:39r	10:50t	10:20t
02/23/2021 Tu	12:06t	13:27r	15:31s	16:50s	17:07t	15:45s	15:06s
02/23/2021 Tu	17:34s						
02/23/2021 Tu	18:54et	21:29t					
02/24/2021 W	5:19mt	5:26s	5:30r	6:29r	0:35s	5:52r	5:30r
02/24/2021 W	6:38r		10:29t	11:40t	9:37r	10:47t	10:16t
02/24/2021 W	12:06t	14:32r	15:28s	16:52s	17:06t	15:42s	15:02s
02/24/2021 W	17:35s						
02/24/2021 W	18:55et	22:24t					
02/25/2021 Th	5:17mt	6:06s	5:29r	6:28r	0:35s	5:48r	5:26r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
02/25/2021 Th	6:36r		10:27t	11:41t	9:35r	10:44t	10:13t
02/25/2021 Th	12:06t	15:44r	15:26s	16:55s	17:04t	15:40s	14:59s
02/25/2021 Th	17:37s						
02/25/2021 Th	18:56et	23:18t					
02/26/2021 F	5:15mt		5:27r	6:27r	0:34s	5:45r	5:23r
02/26/2021 F	6:35r	6:41s	10:26t	11:42t	9:33r	10:41t	10:09t
02/26/2021 F	12:06t	16:58r	15:24s	16:58s	17:03t	15:37s	14:56s
02/26/2021 F	17:38s						
02/26/2021 F	18:57et						
02/27/2021 Sat		0:11t			0:33s		
02/27/2021 Sat	5:14mt	1:17FM	5:26r	6:26r		5:42r	5:19r
02/27/2021 Sat	6:33r	7:10s	10:24t	11:43t	9:31r	10:38t	10:06t
02/27/2021 Sat	12:06t		15:22s	17:00s	17:01t	15:34s	14:52s
02/27/2021 Sat	17:39s	18:15r					
02/27/2021 Sat	18:59et						
02/28/2021 Sun	5:12mt	1:03t	5:25r	6:25r	0:32s	5:39r	5:16r
02/28/2021 Sun	6:31r	7:37s	10:23t	11:44t	9:28r	10:35t	10:02t
02/28/2021 Sun	12:06t		15:21s	17:03s	16:59t	15:31s	14:49s
02/28/2021 Sun	17:41s						
02/28/2021 Sun	19:00et	19:31r					
03/01/2021 M	5:10mt	1:53t	5:24r	6:24r	0:31s	5:35r	5:12r
03/01/2021 M	6:30r	8:03s	10:22t	11:45t	9:26r	10:32t	9:59t
03/01/2021 M	12:05t		15:21s	17:06s	16:58t	15:29s	14:46s
03/01/2021 M	17:42s						
03/01/2021 M	19:01et	20:48r					
03/02/2021 Tu	5:09mt	2:44t	5:23r	6:23r	0:30s	5:32r	5:08r
03/02/2021 Tu	6:28r	8:28s	10:22t	11:45t	9:24r	10:29t	9:55t
03/02/2021 Tu	12:05t		15:20s	17:08s	16:56t	15:26s	14:42s
03/02/2021 Tu	17:43s						
03/02/2021 Tu	19:02et	22:05r					
03/03/2021 W	5:07mt	3:36t	5:22r	6:22r	0:29s	5:29r	5:05r
03/03/2021 W	6:26r	8:56s	10:21t	11:46t	9:22r	10:26t	9:52t
03/03/2021 W	12:05t		15:20s	17:11s	16:55t	15:23s	14:39s
03/03/2021 W	17:45s						
03/03/2021 W	19:04et	23:22r					
03/04/2021 Th	5:05mt	4:29t	5:22r	6:21r	0:28s	5:25r	5:01r
03/04/2021 Th	6:24r	9:27s	10:21t	11:47t	9:20r	10:23t	9:48t
03/04/2021 Th	12:05t		15:21s	17:14s	16:53t	15:20s	14:35s
03/04/2021 Th	17:46s						
03/04/2021 Th	19:05et						
03/05/2021 F	5:04mt	0:39r	5:21r		0:27s	5:22r	4:57r
03/05/2021 F	6:23r	5:25t		6:20r	9:18r		9:45t
03/05/2021 F	12:05t	10:04s	10:21t	11:48t		10:20t	14:32s
03/05/2021 F	17:47s	18:30LQ	15:21s	17:16s	16:52t	15:18s	
03/05/2021 F	19:06et						

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/06/2021 Sat	5:02mt	1:53r	5:21r	6:19r	0:27s	5:19r	4:54r
03/06/2021 Sat	6:21r	6:23t	10:21t		9:16r	10:17t	9:41t
03/06/2021 Sat	12:04t	10:49s	15:22s	11:48t	16:50t	15:15s	14:29s
03/06/2021 Sat	17:48s			17:19s			
03/06/2021 Sat	19:08et						
03/07/2021 Sun	5:00mt	3:00r	5:20r	6:18r	0:26s	5:15r	4:50r
03/07/2021 Sun	6:19r	7:21t	10:22t		9:13r	10:14t	9:38t
03/07/2021 Sun	12:04t	11:42s	15:23s	11:49t	16:49t	15:12s	14:25s
03/07/2021 Sun	17:50s			17:21s			
03/07/2021 Sun	19:09et						
03/08/2021 M	4:58mt	3:57r	5:20r	6:17r	0:25s	5:12r	4:47r
03/08/2021 M	6:17r	8:19t	10:22t	11:50t	9:11r	10:11t	9:34t
03/08/2021 M	12:04t	12:44s	15:25s	17:24s	16:47t	15:09s	14:22s
03/08/2021 M	17:51s						
03/08/2021 M	19:10et						
03/09/2021 Tu	4:57mt	4:44r	5:20r	6:15r	0:24s	5:09r	4:43r
03/09/2021 Tu	6:16r	9:15t	10:23t	11:51t	9:09r	10:08t	9:31t
03/09/2021 Tu	12:04t	13:51s	15:26s	17:27s	16:46t	15:07s	14:18s
03/09/2021 Tu	17:52s						
03/09/2021 Tu	19:12et						
03/10/2021 W	4:55mt	5:23r	5:19r		0:23s	5:05r	4:39r
03/10/2021 W	6:14r	10:08t	10:24t	6:14r	9:07r	10:04t	9:27t
03/10/2021 W	12:03t	15:00s	15:28s	11:51t	16:45t	15:04s	14:15s
03/10/2021 W	17:54s			17:29s			
03/10/2021 W	19:13et						
03/11/2021 Th	4:53mt	5:54r	5:19r		0:22s	5:02r	4:36r
03/11/2021 Th	6:12r	10:57t	10:24t	6:13r	9:05r	10:01t	9:24t
03/11/2021 Th	12:03t	16:08s	15:30s	11:52t	16:43t	15:01s	14:12s
03/11/2021 Th	17:55s			17:32s			
03/11/2021 Th	19:14et						
03/12/2021 F	4:51mt		5:19r		0:21s	4:59r	4:32r
03/12/2021 F	6:10r	6:20r	10:25t	6:12r	9:03r	9:58t	9:20t
03/12/2021 F	12:03t	11:43t	15:33s	11:53t	16:42t	14:58s	14:08s
03/12/2021 F	17:56s	17:15s		17:34s			
03/12/2021 F	19:15et						
03/13/2021 Sat	4:49mt	3:21NM	5:18r		0:20s	4:55r	4:28r
03/13/2021 Sat	6:08r	6:43r	10:26t	6:10r	9:01r	9:55t	9:17t
03/13/2021 Sat	12:03t	12:26t	15:35s	11:53t	16:40t	14:55s	14:05s
03/13/2021 Sat	17:57s	18:20s		17:37s			
03/13/2021 Sat	19:17et						
03/14/2021 Sun	4:47mt		5:18r		0:19s	4:52r	4:25r
03/14/2021 Sun	6:07r	7:03r	10:28t	6:09r	8:59r	9:52t	9:13t
03/14/2021 Sun	12:02t	13:08t	15:38s	11:54t	16:39t	14:53s	14:01s
03/14/2021 Sun	17:59s			17:40s			
03/14/2021 Sun	19:18et	19:23s					

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/15/2021 M	4:46mt		5:18r		0:19s	4:48r	4:21r
03/15/2021 M	6:05r	7:24r	10:29t	6:08r	8:57r	9:49t	9:09t
03/15/2021 M	12:02t	13:49t	15:40s	11:55t	16:37t	14:50s	13:58s
03/15/2021 M	18:00s			17:42s			
03/15/2021 M	19:19et	20:26s					
03/16/2021 Tu	4:44mt		5:18r		0:18s	4:45r	4:17r
03/16/2021 Tu	6:03r	7:44r	10:30t	6:07r	8:55r	9:46t	9:06t
03/16/2021 Tu	12:02t	14:31t	15:43s	11:55t	16:36t	14:47s	13:54s
03/16/2021 Tu	18:01s			17:45s			
03/16/2021 Tu	19:21et	21:28s					
03/17/2021 W	4:42mt		5:17r		0:17s	4:42r	4:14r
03/17/2021 W	6:01r	8:07r	10:32t	6:05r	8:54r	9:43t	9:02t
03/17/2021 W	12:01t	15:13t	15:47s	11:56t	16:35t	14:44s	13:51s
03/17/2021 W	18:02s			17:47s			
03/17/2021 W	19:22et	22:30s					
03/18/2021 Th	4:40mt		5:17r		0:16s	4:38r	4:10r
03/18/2021 Th	5:59r	8:32r	10:33t	6:04r	8:52r	9:40t	8:59t
03/18/2021 Th	12:01t	15:57t	15:50s	11:56t	16:33t	14:41s	13:48s
03/18/2021 Th	18:04s			17:50s			
03/18/2021 Th	19:23et	23:33s					
03/19/2021 F	4:38mt		5:17r		0:15s	4:35r	4:06r
03/19/2021 F	5:58r	9:01r	10:35t	6:03r	8:50r	9:37t	8:55t
03/19/2021 F	12:01t	16:43t	15:53s	11:57t	16:32t	14:39s	13:44s
03/19/2021 F	18:05s			17:52s			
03/19/2021 F	19:25et						
03/20/2021 Sat	2:37ME	0:34s			0:14s	4:32r	4:03r
03/20/2021 Sat	4:36mt		5:16r				
03/20/2021 Sat	5:56r	9:37r	10:36t	6:01r	8:48r	9:34t	8:52t
03/20/2021 Sat	12:01t	17:32t	15:57s	11:58t	16:30t	14:36s	13:41s
03/20/2021 Sat	18:06s			17:55s			
03/20/2021 Sat	19:26et						
03/21/2021 Sun	4:34mt	1:34s	5:16r		0:13s	4:28r	3:59r
03/21/2021 Sun	5:54r	7:40FQ		6:00r	8:46r	9:30t	8:48t
03/21/2021 Sun	12:00t	10:20r	10:38t	11:58t		14:33s	13:37s
03/21/2021 Sun	18:07s	18:24t	16:00s	17:58s	16:29t		
03/21/2021 Sun	19:27et						
03/22/2021 M	4:32mt	2:29s	5:16r		0:12s	4:25r	3:55r
03/22/2021 M	5:52r	11:11r	10:40t	5:59r	8:44r	9:27t	8:45t
03/22/2021 M	12:00t		16:04s	11:59t	16:28t	14:30s	13:34s
03/22/2021 M	18:09s	19:16t		18:00s			
03/22/2021 M	19:29et						
03/23/2021 Tu	4:30mt	3:18s	5:15r		0:11s	4:21r	3:52r
03/23/2021 Tu	5:50r		10:41t	5:57r	8:42r	9:24t	8:41t
03/23/2021 Tu	12:00t	12:12r	16:08s	12:00t	16:26t	14:27s	13:30s
03/23/2021 Tu	18:10s			18:03s			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
03/23/2021 Tu	19:30et	20:10t					
03/24/2021 W	4:28mt	4:01s	5:15r		0:10s	4:18r	3:48r
03/24/2021 W	5:48r		10:43t	5:56r	8:41r	9:21t	8:37t
03/24/2021 W	11:59t	13:19r	16:12s	12:00t	16:25t	14:24s	13:27s
03/24/2021 W	18:11s			18:05s			
03/24/2021 W	19:32et	21:04t					
03/25/2021 Th	4:26mt	4:37s	5:15r		0:09s	4:15r	3:44r
03/25/2021 Th	5:47r		10:45t	5:55r	8:39r	9:18t	8:34t
03/25/2021 Th	11:59t	14:32r	16:17s	12:01t	16:23t	14:22s	13:23s
03/25/2021 Th	18:12s			18:08s			
03/25/2021 Th	19:33et	21:57t					
03/26/2021 F	4:24mt	5:08s	5:14r		0:08s	4:11r	3:41r
03/26/2021 F	5:45r		10:47t	5:53r	8:37r	9:15t	8:30t
03/26/2021 F	11:59t	15:48r	16:21s	12:01t	16:22t	14:19s	13:20s
03/26/2021 F	18:13s			18:10s			
03/26/2021 F	19:34et	22:49t					
03/27/2021 Sat	4:22mt	5:36s	5:14r		0:07s	4:08r	3:37r
03/27/2021 Sat	5:43r		10:49t	5:52r	8:35r	9:12t	8:27t
03/27/2021 Sat	11:58t	17:05r	16:25s	12:02t	16:21t	14:16s	13:16s
03/27/2021 Sat	18:15s			18:13s			
03/27/2021 Sat	19:36et	23:40t					
03/28/2021 Sun	4:20mt		5:13r		0:06s	4:04r	3:33r
03/28/2021 Sun	5:41r	6:02s	10:51t	5:51r	8:34r	9:09t	8:23t
03/28/2021 Sun	11:58t	11:48FM	16:30s	12:03t	16:19t	14:13s	13:13s
03/28/2021 Sun	18:16s	18:23r		18:15s			
03/28/2021 Sun	19:37et						
03/29/2021 M	4:18mt	0:32t	5:13r		0:05s	4:01r	3:30r
03/29/2021 M	5:39r	6:28s	10:53t	5:49r	8:32r	9:05t	8:19t
03/29/2021 M	11:58t		16:35s	12:03t	16:18t	14:10s	13:09s
03/29/2021 M	18:17s			18:18s			
03/29/2021 M	19:39et	19:43r					
03/30/2021 Tu	4:16mt	1:25t	5:13r		0:04s	3:58r	3:26r
03/30/2021 Tu	5:37r	6:55s	10:56t	5:48r	8:30r	9:02t	8:16t
03/30/2021 Tu	11:58t		16:40s	12:04t	16:17t	14:07s	13:06s
03/30/2021 Tu	18:18s			18:21s			
03/30/2021 Tu	19:40et	21:03r					
03/31/2021 W	4:14mt	2:19t	5:12r		0:03s	3:54r	3:22r
03/31/2021 W	5:36r	7:25s	10:58t	5:47r	8:29r	8:59t	8:12t
03/31/2021 W	11:57t		16:45s	12:04t	16:15t	14:04s	13:02s
03/31/2021 W	18:20s			18:23s			
03/31/2021 W	19:41et	22:24r					
04/01/2021 Th	4:12mt	3:16t	5:12r		0:02s	3:51r	3:19r
04/01/2021 Th	5:34r	8:01s	11:00t	5:45r	8:27r	8:56t	8:09t
04/01/2021 Th	11:57t		16:50s	12:05t	16:14t	14:01s	12:59s
04/01/2021 Th	18:21s			18:26s			

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/01/2021 Th	19:43et	23:42r					
04/02/2021 F	4:10mt	4:15t	5:11r		0:01s	3:47r	3:15r
04/02/2021 F	5:32r	8:44s	11:03t	5:44r	8:25r	8:53t	8:05t
04/02/2021 F	11:57t		16:55s	12:06t	16:13t	13:58s	12:55s
04/02/2021 F	18:22s			18:28s			
04/02/2021 F	19:44et						
04/03/2021 Sat	4:08mt	0:53r	5:11r		0:00s	3:44r	3:11r
04/03/2021 Sat	5:30r	5:15t		5:43r	8:24r	8:50t	8:01t
04/03/2021 Sat	11:56t	9:36s	11:05t	12:06t	16:11t	13:55s	12:52s
04/03/2021 Sat	18:23s		17:00s	18:31s			
04/03/2021 Sat	19:46et				23:59s		
04/04/2021 Sun		1:55r					
04/04/2021 Sun	4:06mt	3:02LQ	5:11r			3:40r	3:07r
04/04/2021 Sun	5:28r	6:15t		5:41r	8:22r	8:46t	7:58t
04/04/2021 Sun	11:56t	10:36s	11:08t	12:07t	16:10t	13:53s	12:48s
04/04/2021 Sun	18:24s		17:06s	18:33s			
04/04/2021 Sun	19:47et				23:58s		
04/05/2021 M	4:04mt	2:45r	5:10r			3:37r	3:04r
04/05/2021 M	5:27r	7:12t	11:10t	5:40r	8:21r	8:43t	7:54t
04/05/2021 M	11:56t	11:42s	17:12s	12:07t	16:09t	13:50s	12:44s
04/05/2021 M	18:26s			18:36s			
04/05/2021 M	19:49et				23:57s		
04/06/2021 Tu	4:02mt	3:26r	5:10r			3:33r	3:00r
04/06/2021 Tu	5:25r	8:05t	11:13t	5:39r	8:19r	8:40t	7:50t
04/06/2021 Tu	11:55t	12:51s	17:17s	12:08t	16:07t	13:47s	12:41s
04/06/2021 Tu	18:27s			18:39s			
04/06/2021 Tu	19:50et				23:56s		
04/07/2021 W	4:00mt	3:58r	5:09r			3:30r	2:56r
04/07/2021 W	5:23r	8:55t	11:16t	5:37r	8:17r	8:37t	7:47t
04/07/2021 W	11:55t	13:59s	17:23s	12:09t	16:06t	13:44s	12:37s
04/07/2021 W	18:28s			18:41s			
04/07/2021 W	19:52et				23:55s		
04/08/2021 Th	3:58mt	4:25r	5:09r			3:27r	2:52r
04/08/2021 Th	5:21r	9:41t	11:18t	5:36r	8:16r	8:34t	7:43t
04/08/2021 Th	11:55t	15:06s	17:30s	12:09t	16:05t	13:41s	12:34s
04/08/2021 Th	18:29s			18:44s			
04/08/2021 Th	19:53et				23:54s		
04/09/2021 F	3:56mt	4:48r	5:09r			3:23r	2:49r
04/09/2021 F	5:20r	10:24t	11:21t	5:35r	8:14r	8:30t	7:39t
04/09/2021 F	11:55t	16:11s	17:36s	12:10t	16:04t	13:38s	12:30s
04/09/2021 F	18:31s			18:46s			
04/09/2021 F	19:55et				23:53s		
04/10/2021 Sat	3:54mt	5:09r	5:08r			3:20r	2:45r
04/10/2021 Sat	5:18r	11:06t	11:24t	5:34r	8:13r	8:27t	7:36t
04/10/2021 Sat	11:54t	17:14s	17:42s	12:11t	16:02t	13:35s	12:27s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/10/2021 Sat	18:32s			18:49s			
04/10/2021 Sat	19:56et				23:52s		
04/11/2021 Sun	3:52mt		5:08r			3:16r	2:41r
04/11/2021 Sun	5:16r	5:29r	11:28t	5:32r	8:11r	8:24t	7:32t
04/11/2021 Sun	11:54t	11:47t	17:49s	12:11t	16:01t	13:32s	12:23s
04/11/2021 Sun	18:33s	18:16s		18:52s			
04/11/2021 Sun	19:58et	19:31NM			23:51s		
04/12/2021 M	3:50mt		5:08r			3:13r	2:38r
04/12/2021 M	5:14r	5:49r	11:31t	5:31r	8:10r	8:21t	7:28t
04/12/2021 M	11:54t	12:28t	17:55s	12:12t	16:00t	13:29s	12:19s
04/12/2021 M	18:34s	19:18s		18:54s			
04/12/2021 M	19:59et				23:49s		
04/13/2021 Tu	3:48mt		5:08r			3:09r	2:34r
04/13/2021 Tu	5:13r	6:10r	11:34t	5:30r	8:09r	8:17t	7:25t
04/13/2021 Tu	11:54t	13:10t	18:02s	12:13t	15:58t	13:26s	12:16s
04/13/2021 Tu	18:35s			18:57s			
04/13/2021 Tu	20:01et	20:21s			23:48s		
04/14/2021 W	3:46mt		5:08r			3:06r	2:30r
04/14/2021 W	5:11r	6:34r	11:37t	5:29r	8:07r	8:14t	7:21t
04/14/2021 W	11:53t	13:53t	18:09s	12:14t	15:57t	13:23s	12:12s
04/14/2021 W	18:37s			19:00s			
04/14/2021 W	20:02et	21:24s			23:47s		
04/15/2021 Th	3:44mt		5:08r			3:02r	2:26r
04/15/2021 Th	5:09r	7:01r	11:41t	5:28r	8:06r	8:11t	7:17t
04/15/2021 Th	11:53t	14:39t	18:16s	12:14t	15:56t	13:20s	12:08s
04/15/2021 Th	18:38s			19:02s			
04/15/2021 Th	20:04et	22:26s			23:46s		
04/16/2021 F	3:42mt					2:59r	2:23r
04/16/2021 F	5:08r	7:34r	5:08r	5:26r	8:04r	8:08t	7:14t
04/16/2021 F	11:53t	15:27t	11:45t	12:15t	15:55t	13:17s	12:05s
04/16/2021 F	18:39s		18:24s	19:05s			
04/16/2021 F	20:05et	23:26s			23:45s		
04/17/2021 Sat	3:40mt					2:55r	2:19r
04/17/2021 Sat	5:06r	8:14r	5:08r	5:25r	8:03r	8:04t	7:10t
04/17/2021 Sat	11:53t	16:17t	11:48t	12:16t	15:53t	13:14s	12:01s
04/17/2021 Sat	18:40s		18:31s	19:08s			
04/17/2021 Sat	20:07et				23:44s		
04/18/2021 Sun	3:38mt	0:22s				2:52r	2:15r
04/18/2021 Sun	5:04r	9:01r	5:08r	5:24r	8:02r	8:01t	7:06t
04/18/2021 Sun	11:52t	17:08t	11:52t	12:17t	15:52t	13:11s	11:58s
04/18/2021 Sun	18:41s		18:39s	19:10s			
04/18/2021 Sun	20:09et				23:42s		
04/19/2021 M	3:36mt	1:13s				2:48r	2:11r
04/19/2021 M	5:03r	9:57r	5:08r	5:23r	8:00r	7:58t	7:03t
04/19/2021 M	11:52t	18:00t	11:56t	12:17t	15:51t	13:07s	11:54s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/19/2021 M	18:43s		18:46s	19:13s			
04/19/2021 M	20:10et	23:59FQ			23:41s		
04/20/2021 Tu	3:34mt	1:57s				2:45r	2:07r
04/20/2021 Tu	5:01r	11:01r	5:08r	5:22r	7:59r	7:55t	6:59t
04/20/2021 Tu	11:52t		12:00t	12:18t	15:49t	13:04s	11:50s
04/20/2021 Tu	18:44s	18:53t	18:54s	19:15s			
04/20/2021 Tu	20:12et				23:40s		
04/21/2021 W	3:32mt	2:35s				2:41r	2:04r
04/21/2021 W	4:59r		5:08r	5:21r	7:58r	7:51t	6:55t
04/21/2021 W	11:52t	12:10r	12:04t	12:19t	15:48t	13:01s	11:47s
04/21/2021 W	18:45s	19:44t	19:02s	19:18s			
04/21/2021 W	20:13et				23:39s		
04/22/2021 Th	3:30mt	3:07s				2:38r	2:00r
04/22/2021 Th	4:58r		5:09r	5:20r	7:56r	7:48t	6:51t
04/22/2021 Th	11:52t	13:22r	12:08t	12:20t	15:47t	12:58s	11:43s
04/22/2021 Th	18:46s		19:10s	19:21s			
04/22/2021 Th	20:15et	20:35t			23:37s		
04/23/2021 F	3:28mt	3:35s				2:34r	1:56r
04/23/2021 F	4:56r		5:09r	5:19r	7:55r	7:45t	6:48t
04/23/2021 F	11:51t	14:37r	12:12t	12:21t	15:46t	12:55s	11:39s
04/23/2021 F	18:48s		19:17s	19:23s			
04/23/2021 F	20:17et	21:26t			23:36s		
04/24/2021 Sat	3:26mt	4:01s				2:31r	1:52r
04/24/2021 Sat	4:55r		5:10r	5:18r	7:54r	7:41t	6:44t
04/24/2021 Sat	11:51t	15:54r	12:16t	12:22t	15:44t	12:52s	11:35s
04/24/2021 Sat	18:49s		19:25s	19:26s			
04/24/2021 Sat	20:18et	22:16t			23:35s		
04/25/2021 Sun	3:24mt	4:26s				2:27r	1:49r
04/25/2021 Sun	4:53r		5:10r	5:17r	7:53r	7:38t	6:40t
04/25/2021 Sun	11:51t	17:12r	12:21t	12:23t	15:43t	12:49s	11:32s
04/25/2021 Sun	18:50s		19:33s	19:29s			
04/25/2021 Sun	20:20et	23:08t			23:34s		
04/26/2021 M	3:22mt					2:23r	1:45r
04/26/2021 M	4:51r	4:52s	5:11r	5:16r	7:51r	7:35t	6:36t
04/26/2021 M	11:51t	18:33r	12:25t	12:23t	15:42t	12:46s	11:28s
04/26/2021 M	18:51s		19:41s	19:31s			
04/26/2021 M	20:21et	20:32FM			23:32s		
04/27/2021 Tu	3:20mt	0:03t				2:20r	1:41r
04/27/2021 Tu	4:50r	5:21s	5:12r	5:16r	7:50r	7:31t	6:33t
04/27/2021 Tu	11:51t		12:29t	12:24t	15:41t	12:43s	11:24s
04/27/2021 Tu	18:52s	19:56r	19:49s	19:34s			
04/27/2021 Tu	20:23et				23:31s		
04/28/2021 W	3:18mt	1:00t				2:16r	1:37r
04/28/2021 W	4:48r	5:54s	5:12r	5:15r	7:49r	7:28t	6:29t
04/28/2021 W	11:51t		12:33t	12:25t	15:39t	12:39s	11:21s

**Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.
All dates and times are MST.**

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
04/28/2021 W	18:54s		19:56s	19:37s			
04/28/2021 W	20:25et	21:19r			23:30s		
04/29/2021 Th	3:16mt	2:00t				2:13r	1:33r
04/29/2021 Th	4:47r	6:35s	5:13r	5:14r	7:48r	7:24t	6:25t
04/29/2021 Th	11:50t		12:37t	12:26t	15:38t	12:36s	11:17s
04/29/2021 Th	18:55s		20:03s	19:39s			
04/29/2021 Th	20:26et	22:37r			23:28s		
04/30/2021 F	3:14mt	3:02t				2:09r	1:29r
04/30/2021 F	4:45r	7:24s	5:14r	5:13r	7:47r	7:21t	6:21t
04/30/2021 F	11:50t		12:41t	12:27t	15:37t	12:33s	11:13s
04/30/2021 F	18:56s		20:10s	19:42s			
04/30/2021 F	20:28et	23:46r			23:27s		
05/01/2021 Sat	3:12mt	4:05t				2:06r	1:26r
05/01/2021 Sat	4:44r	8:24s	5:15r	5:13r	7:46r	7:18t	6:18t
05/01/2021 Sat	11:50t		12:45t	12:28t	15:36t	12:30s	11:09s
05/01/2021 Sat	18:57s		20:17s	19:45s			
05/01/2021 Sat	20:30et				23:25s		
05/02/2021 Sun	3:10mt	0:42r				2:02r	1:22r
05/02/2021 Sun	4:43r	5:05t	5:16r	5:12r	7:44r	7:14t	6:14t
05/02/2021 Sun	11:50t	9:30s	12:49t	12:29t	15:34t	12:27s	11:06s
05/02/2021 Sun	18:58s		20:24s	19:47s			
05/02/2021 Sun	20:31et				23:24s		
05/03/2021 M	3:08mt	1:27r				1:59r	1:18r
05/03/2021 M	4:41r	6:01t	5:17r	5:12r	7:43r	7:11t	6:10t
05/03/2021 M	11:50t	10:40s		12:30t		12:23s	11:02s
05/03/2021 M	19:00s	12:50LQ	12:53t	19:50s	15:33t		
05/03/2021 M	20:33et		20:30s		23:23s		
05/04/2021 Tu	3:06mt	2:02r				1:55r	1:14r
05/04/2021 Tu	4:40r	6:52t	5:18r	5:11r	7:42r	7:08t	6:06t
05/04/2021 Tu	11:50t	11:50s	12:56t	12:31t	15:32t	12:20s	10:58s
05/04/2021 Tu	19:01s			19:53s			
05/04/2021 Tu	20:35et		20:36s		23:21s		
05/05/2021 W	3:05mt	2:31r				1:51r	1:10r
05/05/2021 W	4:39r	7:40t	5:19r	5:11r	7:41r	7:04t	6:02t
05/05/2021 W	11:50t	12:58s	13:00t	12:32t	15:30t	12:17s	10:54s
05/05/2021 W	19:02s			19:55s			
05/05/2021 W	20:36et		20:42s		23:20s		
05/06/2021 Th	3:03mt	2:55r				1:48r	1:06r
05/06/2021 Th	4:37r	8:24t	5:20r	5:10r	7:40r	7:01t	5:59t
05/06/2021 Th	11:50t	14:03s	13:03t	12:34t	15:29t	12:14s	10:51s
05/06/2021 Th	19:03s			19:58s			
05/06/2021 Th	20:38et		20:47s		23:18s		
05/07/2021 F	3:01mt	3:16r				1:44r	1:03r
05/07/2021 F	4:36r	9:06t	5:21r	5:10r	7:39r	6:57t	5:55t
05/07/2021 F	11:50t	15:06s	13:06t	12:35t	15:28t	12:10s	10:47s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/07/2021 F	19:04s			20:00s			
05/07/2021 F	20:40et		20:51s		23:17s		
05/08/2021 Sat	2:59mt	3:36r				1:41r	0:59r
05/08/2021 Sat	4:35r	9:47t	5:22r	5:09r	7:38r	6:54t	5:51t
05/08/2021 Sat	11:50t	16:09s	13:09t	12:36t	15:27t	12:07s	10:43s
05/08/2021 Sat	19:05s			20:03s			
05/08/2021 Sat	20:41et		20:56s		23:15s		
05/09/2021 Sun	2:57mt	3:55r				1:37r	0:55r
05/09/2021 Sun	4:33r	10:27t	5:23r	5:09r	7:37r	6:50t	5:47t
05/09/2021 Sun	11:50t	17:11s	13:11t	12:37t	15:25t	12:04s	10:39s
05/09/2021 Sun	19:07s			20:06s			
05/09/2021 Sun	20:43et		21:00s		23:14s		
05/10/2021 M	2:56mt	4:16r				1:33r	0:51r
05/10/2021 M	4:32r		5:24r	5:09r	7:36r	6:47t	5:43t
05/10/2021 M	11:50t	11:08t	13:13t	12:38t	15:24t	12:01s	10:35s
05/10/2021 M	19:08s	18:13s		20:08s			
05/10/2021 M	20:45et		21:03s		23:12s		
05/11/2021 Tu	2:54mt					1:30r	0:47r
05/11/2021 Tu	4:31r	4:38r	5:25r	5:09r	7:35r	6:43t	5:39t
05/11/2021 Tu	11:50t	11:51t				11:57s	10:31s
05/11/2021 Tu	19:09s	12:00NM	13:15t	12:39t	15:23t		
05/11/2021 Tu	20:46et	19:15s	21:06s	20:11s	23:10s		
05/12/2021 W	2:52mt					1:26r	0:43r
05/12/2021 W	4:30r	5:04r	5:26r	5:08r	7:34r	6:40t	5:35t
05/12/2021 W	11:50t	12:36t	13:17t	12:40t	15:22t	11:54s	10:28s
05/12/2021 W	19:10s	20:18s		20:13s			
05/12/2021 W	20:48et		21:09s		23:09s		
05/13/2021 Th	2:51mt					1:22r	0:39r
05/13/2021 Th	4:29r	5:35r	5:27r	5:08r	7:33r	6:36t	5:32t
05/13/2021 Th	11:50t	13:23t	13:19t	12:42t	15:20t	11:51s	10:24s
05/13/2021 Th	19:11s			20:16s			
05/13/2021 Th	20:50et	21:20s	21:11s		23:07s		
05/14/2021 F	2:49mt					1:19r	0:36r
05/14/2021 F	4:28r	6:12r	5:28r	5:08r	7:32r	6:33t	5:28t
05/14/2021 F	11:50t	14:12t	13:20t	12:43t	15:19t	11:47s	10:20s
05/14/2021 F	19:12s			20:18s			
05/14/2021 F	20:51et	22:18s	21:12s		23:06s		
05/15/2021 Sat	2:47mt					1:15r	0:32r
05/15/2021 Sat	4:26r	6:57r	5:28r	5:08r	7:31r	6:29t	5:24t
05/15/2021 Sat	11:50t	15:03t	13:21t	12:44t	15:18t	11:44s	10:16s
05/15/2021 Sat	19:13s			20:21s			
05/15/2021 Sat	20:53et	23:10s	21:14s		23:04s		
05/16/2021 Sun	2:46mt					1:11r	0:28r
05/16/2021 Sun	4:25r	7:50r	5:29r	5:09r	7:30r	6:26t	5:20t
05/16/2021 Sun	11:50t	15:55t	13:21t	12:45t	15:16t	11:40s	10:12s

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/16/2021 Sun	19:14s			20:23s			
05/16/2021 Sun	20:55et	23:56s	21:14s		23:02s		
05/17/2021 M	2:44mt					1:08r	0:24r
05/17/2021 M	4:24r	8:50r	5:29r	5:09r	7:29r	6:22t	5:16t
05/17/2021 M	11:50t	16:47t	13:22t	12:47t	15:15t	11:37s	10:08s
05/17/2021 M	19:16s			20:25s			
05/17/2021 M	20:56et		21:15s		23:01s		
05/18/2021 Tu	2:43mt	0:35s				1:04r	0:20r
05/18/2021 Tu	4:23r	9:55r	5:29r	5:09r	7:28r	6:19t	5:12t
05/18/2021 Tu	11:50t	17:37t	13:22t	12:48t	15:14t	11:34s	10:04s
05/18/2021 Tu	19:17s			20:28s			
05/18/2021 Tu	20:58et		21:14s		22:59s		
05/19/2021 W	2:41mt	1:08s				1:00r	0:16r
05/19/2021 W	4:22r		5:29r	5:09r	7:27r	6:15t	5:08t
05/19/2021 W	11:50t	11:05r				11:30s	10:00s
05/19/2021 W		12:13FQ	13:21t	12:49t	15:13t		
05/19/2021 W	19:18s	18:27t		20:30s			
05/19/2021 W	21:00et		21:14s		22:57s		
05/20/2021 Th	2:40mt	1:37s				0:57r	0:12r
05/20/2021 Th	4:21r		5:29r	5:10r	7:27r	6:12t	5:04t
05/20/2021 Th	11:50t	12:16r	13:21t	12:51t	15:11t	11:27s	9:57s
05/20/2021 Th	19:19s	19:16t		20:32s			
05/20/2021 Th	21:01et		21:12s		22:56s		
05/21/2021 F	2:38mt	2:02s				0:53r	0:08r
05/21/2021 F	4:21r		5:28r	5:10r	7:26r	6:08t	5:00t
05/21/2021 F	11:50t	13:29r	13:20t	12:52t	15:10t	11:23s	9:53s
05/21/2021 F	19:20s	20:04t		20:34s			
05/21/2021 F	21:03et		21:11s		22:54s		
05/22/2021 Sat	2:37mt	2:26s				0:49r	0:04r
05/22/2021 Sat	4:20r		5:28r	5:10r	7:25r	6:05t	4:57t
05/22/2021 Sat	11:50t	14:45r	13:19t	12:53t	15:09t	11:20s	9:49s
05/22/2021 Sat	19:21s	20:54t		20:37s			
05/22/2021 Sat	21:04et		21:09s		22:52s		
05/23/2021 Sun	2:35mt	2:51s				0:46r	0:01r
05/23/2021 Sun	4:19r		5:27r	5:11r	7:24r	6:01t	4:53t
05/23/2021 Sun	11:50t	16:03r	13:17t	12:55t	15:07t	11:16s	9:45s
05/23/2021 Sun	19:22s			20:39s			
05/23/2021 Sun	21:06et	21:46t	21:06s		22:51s		23:57r
05/24/2021 M	2:34mt	3:17s				0:42r	
05/24/2021 M	4:18r		5:26r	5:12r	7:23r	5:57t	4:49t
05/24/2021 M	11:50t	17:24r	13:15t	12:56t	15:06t	11:13s	9:41s
05/24/2021 M	19:23s		21:03s	20:41s			
05/24/2021 M	21:07et	22:41t			22:49s		23:53r
05/25/2021 Tu	2:33mt	3:47s				0:38r	
05/25/2021 Tu	4:17r		5:25r	5:12r	7:22r	5:54t	4:45t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
05/25/2021 Tu	11:50t	18:47r	13:13t	12:57t	15:05t	11:09s	9:37s
05/25/2021 Tu	19:24s		21:00s	20:43s			
05/25/2021 Tu	21:09et	23:39t			22:47s		23:49r
05/26/2021 W	2:32mt	4:14FM				0:34r	
05/26/2021 W	4:16r	4:24s	5:23r	5:13r	7:22r	5:50t	4:41t
05/26/2021 W	11:50t		13:10t	12:59t	15:04t	11:06s	9:33s
05/26/2021 W	19:25s	20:09r	20:56s	20:45s			
05/26/2021 W	21:10et				22:45s		23:45r
05/27/2021 Th	2:30mt	0:42t				0:31r	
05/27/2021 Th	4:16r	5:09s	5:21r	5:14r	7:21r	5:46t	4:37t
05/27/2021 Th	11:50t		13:07t	13:00t	15:02t	11:02s	9:29s
05/27/2021 Th	19:26s		20:52s	20:47s			
05/27/2021 Th	21:11et	21:25r			22:43s		23:41r
05/28/2021 F	2:29mt	1:46t				0:27r	
05/28/2021 F	4:15r	6:06s	5:19r	5:15r	7:20r	5:43t	4:33t
05/28/2021 F	11:51t		13:04t	13:02t	15:01t	10:59s	9:25s
05/28/2021 F	19:26s		20:47s	20:49s			
05/28/2021 F	21:13et	22:30r			22:42s		23:37r
05/29/2021 Sat	2:28mt	2:50t				0:23r	
05/29/2021 Sat	4:14r	7:11s	5:17r	5:16r	7:19r	5:39t	4:29t
05/29/2021 Sat	11:51t		13:00t	13:03t	15:00t	10:55s	9:21s
05/29/2021 Sat	19:27s		20:42s	20:51s			
05/29/2021 Sat	21:14et	23:22r			22:40s		23:33r
05/30/2021 Sun	2:27mt	3:50t				0:20r	
05/30/2021 Sun	4:14r	8:23s	5:14r	5:17r	7:18r	5:35t	4:25t
05/30/2021 Sun	11:51t		12:56t	13:04t	14:58t	10:51s	9:17s
05/30/2021 Sun	19:28s		20:37s	20:52s			
05/30/2021 Sun	21:16et				22:38s		23:29r
05/31/2021 M	2:26mt	0:02r				0:16r	
05/31/2021 M	4:13r	4:45t	5:11r	5:18r	7:18r	5:32t	4:21t
05/31/2021 M	11:51t	9:36s	12:52t	13:06t	14:57t	10:48s	9:13s
05/31/2021 M	19:29s		20:31s	20:54s			
05/31/2021 M	21:17et				22:36s		23:25r
06/01/2021 Tu	2:25mt	0:34r				0:12r	
06/01/2021 Tu	4:13r	5:36t	5:08r	5:19r	7:17r	5:28t	4:17t
06/01/2021 Tu	11:51t	10:46s	12:47t	13:07t	14:56t	10:44s	9:09s
06/01/2021 Tu	19:30s		20:25s	20:56s			
06/01/2021 Tu	21:18et				22:34s		23:21r
06/02/2021 W		0:24LQ				0:08r	
06/02/2021 W	2:24mt	1:00r					
06/02/2021 W	4:12r	6:22t	5:05r	5:20r	7:16r	5:24t	4:13t
06/02/2021 W	11:51t	11:54s	12:42t	13:09t	14:54t	10:41s	9:05s
06/02/2021 W	19:31s		20:18s	20:57s			
06/02/2021 W	21:19et				22:32s		23:17r
06/03/2021 Th	2:23mt	1:22r				0:04r	4:09t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/03/2021 Th	4:12r	7:05t	5:01r	5:21r	7:15r	5:21t	9:01s
06/03/2021 Th	11:51t	12:58s	12:37t	13:10t	14:53t	10:37s	
06/03/2021 Th	19:31s		20:11s	20:59s			
06/03/2021 Th	21:20et				22:30s		23:13r
06/04/2021 F	2:22mt	1:42r				0:01r	4:05t
06/04/2021 F	4:11r	7:46t	4:57r	5:23r	7:14r	5:17t	8:57s
06/04/2021 F	11:52t	14:01s	12:31t	13:12t	14:52t	10:33s	
06/04/2021 F	19:32s		20:04s	21:00s			
06/04/2021 F	21:22et				22:28s	23:57r	23:09r
06/05/2021 Sat	2:22mt	2:02r					4:01t
06/05/2021 Sat	4:11r	8:27t	4:53r	5:24r	7:14r	5:13t	8:53s
06/05/2021 Sat	11:52t	15:03s	12:26t	13:13t	14:50t	10:30s	
06/05/2021 Sat	19:33s		19:57s	21:02s			
06/05/2021 Sat	21:23et				22:27s	23:53r	23:05r
06/06/2021 Sun	2:21mt	2:22r					3:57t
06/06/2021 Sun	4:11r	9:08t	4:49r	5:26r	7:13r	5:09t	8:49s
06/06/2021 Sun	11:52t	16:05s	12:20t	13:14t	14:49t	10:26s	
06/06/2021 Sun	19:34s		19:50s	21:03s			
06/06/2021 Sun	21:24et				22:25s	23:49r	23:01r
06/07/2021 M	2:20mt	2:43r					3:53t
06/07/2021 M	4:10r	9:50t	4:45r	5:27r	7:12r	5:06t	8:45s
06/07/2021 M	11:52t	17:07s	12:14t	13:16t	14:48t	10:22s	
06/07/2021 M	19:34s		19:42s	21:04s			
06/07/2021 M	21:25et				22:23s	23:45r	22:57r
06/08/2021 Tu	2:20mt	3:08r					3:49t
06/08/2021 Tu	4:10r		4:40r	5:29r	7:12r	5:02t	8:41s
06/08/2021 Tu	11:52t	10:34t	12:08t	13:17t	14:46t	10:18s	
06/08/2021 Tu	19:35s	18:10s	19:35s	21:06s			
06/08/2021 Tu	21:26et				22:21s	23:42r	22:53r
06/09/2021 W	2:19mt	3:37r					3:45t
06/09/2021 W	4:10r		4:35r	5:30r	7:11r	4:58t	8:37s
06/09/2021 W	11:53t	11:20t	12:02t	13:19t	14:45t	10:15s	
06/09/2021 W	19:35s	19:12s	19:27s	21:07s			
06/09/2021 W	21:27et				22:19s	23:38r	22:49r
06/10/2021 Th	2:19mt	3:53NM					3:41t
06/10/2021 Th	4:10r	4:12r	4:31r	5:32r	7:10r	4:54t	8:32s
06/10/2021 Th	11:53t	12:09t	11:55t	13:20t	14:44t	10:11s	
06/10/2021 Th	19:36s	20:12s	19:20s	21:08s			
06/10/2021 Th	21:27et				22:17s	23:34r	22:45r
06/11/2021 F	2:18mt						3:37t
06/11/2021 F	4:10r	4:54r	4:26r	5:34r	7:09r	4:51t	8:28s
06/11/2021 F	11:53t	13:00t	11:49t	13:21t	14:42t	10:07s	
06/11/2021 F	19:37s	21:07s	19:12s	21:09s			
06/11/2021 F	21:28et				22:15s	23:30r	22:41r
06/12/2021 Sat	2:18mt						3:33t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/12/2021 Sat	4:09r	5:45r	4:21r	5:35r	7:09r	4:47t	8:24s
06/12/2021 Sat	11:53t	13:52t	11:43t	13:23t	14:41t	10:03s	
06/12/2021 Sat	19:37s		19:05s	21:10s			
06/12/2021 Sat	21:29et	21:55s			22:13s	23:26r	22:37r
06/13/2021 Sun	2:18mt						3:29t
06/13/2021 Sun	4:09r	6:43r	4:16r	5:37r	7:08r	4:43t	8:20s
06/13/2021 Sun	11:53t	14:43t	11:37t	13:24t	14:39t	10:00s	
06/13/2021 Sun	19:38s		18:58s	21:11s			
06/13/2021 Sun	21:30et	22:36s			22:11s	23:22r	22:33r
06/14/2021 M	2:17mt						3:25t
06/14/2021 M	4:09r	7:47r	4:11r	5:39r	7:07r	4:39t	8:16s
06/14/2021 M	11:54t	15:34t	11:31t	13:26t	14:38t	9:56s	
06/14/2021 M	19:38s		18:51s	21:12s			
06/14/2021 M	21:30et	23:11s			22:08s	23:19r	22:29r
06/15/2021 Tu	2:17mt		4:06r				3:21t
06/15/2021 Tu	4:09r	8:55r		5:41r	7:07r	4:35t	8:12s
06/15/2021 Tu	11:54t	16:24t	11:25t	13:27t	14:37t	9:52s	
06/15/2021 Tu	19:38s		18:44s	21:12s			
06/15/2021 Tu	21:31et	23:40s			22:06s	23:15r	22:25r
06/16/2021 W	2:17mt		4:01r				3:17t
06/16/2021 W	4:09r			5:43r	7:06r	4:31t	8:08s
06/16/2021 W	11:54t	10:04r	11:19t	13:28t	14:35t	9:48s	
06/16/2021 W	19:39s	17:12t	18:38s	21:13s			
06/16/2021 W	21:31et				22:04s	23:11r	22:21r
06/17/2021 Th	2:17mt	0:06s	3:56r				3:12t
06/17/2021 Th	4:09r			5:45r	7:05r	4:27t	8:04s
06/17/2021 Th	11:54t	11:15r	11:14t	13:30t	14:34t	9:44s	
06/17/2021 Th	19:39s	17:59t	18:32s				
06/17/2021 Th	21:32et	20:54FQ		21:14s	22:02s	23:07r	22:17r
06/18/2021 F	2:17mt	0:30s	3:51r				3:08t
06/18/2021 F	4:10r			5:47r	7:05r	4:24t	7:59s
06/18/2021 F	11:54t	12:27r	11:09t	13:31t	14:33t	9:40s	
06/18/2021 F	19:39s	18:46t	18:26s	21:14s			
06/18/2021 F	21:32et				22:00s	23:03r	22:13r
06/19/2021 Sat	2:17mt	0:53s	3:47r				3:04t
06/19/2021 Sat	4:10r			5:49r	7:04r	4:20t	7:55s
06/19/2021 Sat	11:55t	13:41r	11:04t	13:32t	14:31t	9:36s	
06/19/2021 Sat	19:40s	19:35t	18:21s	21:15s			
06/19/2021 Sat	21:32et				21:58s	22:59r	22:09r
06/20/2021 Sun	2:17mt	1:17s	3:42r				3:00t
06/20/2021 Sun	4:10r			5:52r	7:03r	4:16t	7:51s
06/20/2021 Sun	11:55t	14:58r	10:59t	13:34t	14:30t	9:32s	
06/20/2021 Sun	19:40s	20:26t	18:16s				
06/20/2021 Sun	20:32JS			21:15s			
06/20/2021 Sun	21:33et				21:56s	22:55r	22:05r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/21/2021 M	2:17mt	1:44s	3:38r				2:56t
06/21/2021 M	4:10r			5:54r	7:03r	4:12t	7:47s
06/21/2021 M	11:55t	16:18r	10:55t	13:35t	14:28t	9:28s	
06/21/2021 M	19:40s	21:22t	18:11s	21:15s			
06/21/2021 M	21:33et				21:54s	22:51r	22:01r
06/22/2021 Tu	2:18mt	2:16s	3:33r			4:08t	2:52t
06/22/2021 Tu	4:10r		10:50t	5:56r	7:02r	9:24s	7:43s
06/22/2021 Tu	11:55t	17:39r	18:07s	13:36t	14:27t		
06/22/2021 Tu	19:40s			21:15s			
06/22/2021 Tu	21:33et	22:21t			21:51s	22:47r	21:57r
06/23/2021 W	2:18mt	2:56s	3:29r			4:04t	2:48t
06/23/2021 W	4:11r		10:47t	5:58r	7:01r	9:20s	7:39s
06/23/2021 W	11:56t	18:58r	18:04s	13:37t	14:26t		
06/23/2021 W	19:40s			21:16s			
06/23/2021 W	21:33et	23:24t			21:49s	22:43r	21:53r
06/24/2021 Th	2:18mt	3:47s	3:26r			4:00t	2:44t
06/24/2021 Th	4:11r	11:40FM	10:43t	6:01r	7:01r	9:16s	7:34s
06/24/2021 Th	11:56t		18:01s	13:39t	14:24t		
06/24/2021 Th	19:41s	20:10r		21:16s			
06/24/2021 Th	21:33et				21:47s	22:40r	21:49r
06/25/2021 F	2:19mt	0:29t	3:22r			3:56t	2:40t
06/25/2021 F	4:11r	4:49s	10:40t	6:03r	7:00r	9:12s	7:30s
06/25/2021 F	11:56t		17:58s	13:40t	14:23t		
06/25/2021 F	19:41s	21:09r		21:16s			
06/25/2021 F	21:33et				21:45s	22:36r	21:45r
06/26/2021 Sat	2:19mt	1:32t	3:18r			3:52t	2:35t
06/26/2021 Sat	4:12r	5:59s	10:37t	6:05r	7:00r	9:08s	7:26s
06/26/2021 Sat	11:56t		17:56s	13:41t	14:21t		
06/26/2021 Sat	19:41s			21:16s			
06/26/2021 Sat	21:33et	21:56r			21:43s	22:32r	21:41r
06/27/2021 Sun	2:20mt	2:32t	3:15r			3:48t	2:31t
06/27/2021 Sun	4:12r	7:14s	10:34t	6:08r	6:59r	9:04s	7:22s
06/27/2021 Sun	11:56t		17:54s	13:42t	14:20t		
06/27/2021 Sun	19:41s			21:16s			
06/27/2021 Sun	21:33et	22:32r			21:41s	22:28r	21:37r
06/28/2021 M	2:21mt	3:26t	3:12r			3:44t	2:27t
06/28/2021 M	4:12r	8:28s	10:32t	6:10r	6:58r	9:00s	7:18s
06/28/2021 M	11:57t		17:53s	13:43t	14:19t		
06/28/2021 M	19:41s			21:16s			
06/28/2021 M	21:32et	23:01r			21:38s	22:24r	21:33r
06/29/2021 Tu	2:21mt		3:10r			3:40t	2:23t
06/29/2021 Tu	4:13r	4:15t		6:13r	6:58r	8:56s	7:13s
06/29/2021 Tu	11:57t	9:38s	10:30t	13:44t	14:17t		
06/29/2021 Tu	19:40s		17:52s	21:15s			21:29r
06/29/2021 Tu	21:32et	23:25r			21:36s	22:20r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
06/30/2021 W	2:22mt		3:07r			3:36t	2:19t
06/30/2021 W	4:13r	5:00t	10:29t	6:15r	6:57r	8:52s	7:09s
06/30/2021 W	11:57t	10:46s	17:51s	13:46t	14:16t		
06/30/2021 W	19:40s			21:15s			21:24r
06/30/2021 W	21:32et	23:46r			21:34s	22:16r	
07/01/2021 Th	2:23mt		3:05r			3:32t	2:15t
07/01/2021 Th	4:14r	5:43t	10:27t	6:17r	6:56r	8:48s	7:05s
07/01/2021 Th	11:57t	11:50s		13:47t			
07/01/2021 Th	19:40s	14:11LQ	17:51s	21:15s	14:14t		21:20r
07/01/2021 Th	21:31et				21:31s	22:12r	
07/02/2021 F	2:24mt	0:06r	3:03r			3:28t	2:11t
07/02/2021 F	4:15r	6:24t	10:27t	6:20r	6:56r	8:44s	7:01s
07/02/2021 F	11:57t	12:53s	17:51s	13:48t	14:13t		
07/02/2021 F	19:40s			21:14s	21:29s		21:16r
07/02/2021 F	21:31et					22:08r	
07/03/2021 Sat	2:24mt	0:26r	3:01r			3:24t	2:06t
07/03/2021 Sat	4:15r	7:05t	10:26t	6:22r	6:55r	8:40s	6:56s
07/03/2021 Sat	11:58t	13:56s	17:52s	13:49t	14:11t		
07/03/2021 Sat	19:40s			21:14s	21:27s		21:12r
07/03/2021 Sat	21:30et					22:04r	
07/04/2021 Sun	2:25mt	0:48r	2:59r			3:20t	2:02t
07/04/2021 Sun	4:16r	7:47t	10:26t	6:25r	6:55r	8:35s	6:52s
07/04/2021 Sun	11:58t	14:58s	17:53s	13:50t	14:10t		
07/04/2021 Sun	19:39s			21:14s	21:25s		21:08r
07/04/2021 Sun	21:29et					22:00r	
07/05/2021 M	2:26mt	1:11r	2:58r			3:16t	1:58t
07/05/2021 M	4:16r	8:30t	10:26t	6:27r	6:54r	8:31s	6:48s
07/05/2021 M	11:58t	16:01s	17:54s	13:51t	14:08t		
07/05/2021 M	19:39s			21:13s	21:22s		21:04r
07/05/2021 M	21:29et					21:56r	
07/06/2021 Tu	2:27mt	1:38r	2:57r			3:11t	1:54t
07/06/2021 Tu	4:17r	9:16t	10:26t	6:30r	6:53r	8:27s	6:44s
07/06/2021 Tu	11:58t	17:03s	17:56s	13:52t	14:07t		
07/06/2021 Tu	19:39s			21:12s	21:20s		21:00r
07/06/2021 Tu	21:28et					21:52r	
07/07/2021 W	2:28mt	2:11r	2:57r			3:07t	1:50t
07/07/2021 W	4:18r	10:04t	10:27t	6:32r	6:53r	8:23s	6:39s
07/07/2021 W	11:58t	18:04s	17:58s	13:53t	14:05t		
07/07/2021 W	19:38s			21:12s	21:18s		20:56r
07/07/2021 W	21:27et					21:48r	
07/08/2021 Th	2:30mt	2:51r	2:57r			3:03t	1:46t
07/08/2021 Th	4:19r	10:55t	10:28t	6:35r	6:52r	8:19s	6:35s
07/08/2021 Th	11:58t	19:01s	18:00s	13:54t	14:04t		
07/08/2021 Th	19:38s			21:11s	21:15s		20:52r
07/08/2021 Th	21:26et					21:44r	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/09/2021 F	2:31mt	3:39r	2:57r			2:59t	1:41t
07/09/2021 F	4:19r	11:47t	10:29t	6:38r	6:51r	8:14s	6:31s
07/09/2021 F	11:59t	18:17NM	18:03s	13:54t	14:03t		
07/09/2021 F	19:37s	19:52s		21:10s	21:13s		20:48r
07/09/2021 F	21:25et					21:40r	
07/10/2021 Sat	2:32mt		2:57r			2:55t	1:37t
07/10/2021 Sat	4:20r	4:36r	10:31t	6:40r	6:51r	8:10s	6:27s
07/10/2021 Sat	11:59t	12:39t	18:06s	13:55t	14:01t		
07/10/2021 Sat	19:37s	20:36s		21:10s	21:11s		20:44r
07/10/2021 Sat	21:25et					21:35r	
07/11/2021 Sun	2:33mt		2:58r			2:51t	1:33t
07/11/2021 Sun	4:21r	5:39r	10:33t	6:43r	6:50r	8:06s	6:22s
07/11/2021 Sun	11:59t	13:31t	18:09s	13:56t	14:00t		
07/11/2021 Sun	19:36s	21:13s		21:09s	21:08s		20:39r
07/11/2021 Sun	21:24et					21:31r	
07/12/2021 M	2:34mt		2:59r			2:47t	1:29t
07/12/2021 M	4:22r	6:47r	10:35t	6:45r	6:50r	8:02s	6:18s
07/12/2021 M	11:59t	14:21t	18:12s	13:57t	13:58t		
07/12/2021 M	19:36s			21:08s	21:06s		20:35r
07/12/2021 M	21:22et	21:44s				21:27r	
07/13/2021 Tu	2:36mt		3:00r			2:42t	1:25t
07/13/2021 Tu	4:23r	7:56r	10:38t	6:48r	6:49r	7:57s	6:14s
07/13/2021 Tu	11:59t	15:10t	18:16s	13:58t	13:57t		
07/13/2021 Tu	19:35s			21:07s	21:04s		20:31r
07/13/2021 Tu	21:21et	22:10s				21:23r	
07/14/2021 W	2:37mt		3:02r			2:38t	1:20t
07/14/2021 W	4:23r	9:07r	10:41t	6:50r	6:48r	7:53s	6:09s
07/14/2021 W	11:59t	15:57t	18:20s	13:59t	13:55t		
07/14/2021 W	19:34s			21:06s	21:01s	21:19r	20:27r
07/14/2021 W	21:20et	22:34s					
07/15/2021 Th	2:38mt		3:05r			2:34t	1:16t
07/15/2021 Th	4:24r	10:18r	10:44t	6:53r	6:48r	7:49s	6:05s
07/15/2021 Th	11:59t	16:44t	18:24s	13:59t	13:54t		
07/15/2021 Th	19:34s			21:05s	20:59s	21:15r	20:23r
07/15/2021 Th	21:19et	22:57s					
07/16/2021 F	2:40mt		3:07r			2:30t	1:12t
07/16/2021 F	4:25r	11:29r	10:48t	6:55r	6:47r	7:44s	6:01s
07/16/2021 F	11:59t	17:31t	18:28s	14:00t	13:52t		
07/16/2021 F	19:33s			21:04s	20:56s	21:11r	20:19r
07/16/2021 F	21:18et	23:20s					
07/17/2021 Sat	2:41mt	3:11FQ	3:10r			2:25t	1:08t
07/17/2021 Sat	4:26r		10:51t	6:58r	6:47r	7:40s	5:57s
07/17/2021 Sat	11:59t	12:43r		14:01t	13:51t		
07/17/2021 Sat	19:32s	18:20t	18:32s	21:03s	20:54s	21:07r	20:15r
07/17/2021 Sat	21:17et	23:46s					

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/18/2021 Sun	2:43mt		3:14r			2:21t	1:04t
07/18/2021 Sun	4:27r		10:55t	7:00r	6:46r	7:35s	5:52s
07/18/2021 Sun	11:59t	13:59r	18:37s	14:02t	13:49t		
07/18/2021 Sun	19:31s	19:12t		21:02s	20:52s	21:03r	20:11r
07/18/2021 Sun	21:15et						
07/19/2021 M	2:44mt	0:14s	3:18r			2:17t	0:59t
07/19/2021 M	4:28r		10:59t	7:03r	6:45r	7:31s	5:48s
07/19/2021 M	12:00t	15:18r	18:41s	14:02t	13:48t		
07/19/2021 M	19:31s	20:08t		21:01s	20:49s	20:59r	20:07r
07/19/2021 M	21:14et						
07/20/2021 Tu	2:46mt	0:50s	3:22r			2:13t	0:55t
07/20/2021 Tu	4:29r		11:04t	7:05r	6:45r	7:27s	5:44s
07/20/2021 Tu	12:00t	16:36r	18:45s	14:03t	13:46t		
07/20/2021 Tu	19:30s	21:07t		21:00s	20:47s	20:55r	20:02r
07/20/2021 Tu	21:12et						
07/21/2021 W	2:47mt	1:34s	3:27r			2:08t	0:51t
07/21/2021 W	4:30r		11:08t	7:08r	6:44r	7:22s	5:39s
07/21/2021 W	12:00t	17:49r	18:50s	14:04t	13:45t		
07/21/2021 W	19:29s			20:58s	20:44s	20:50r	19:58r
07/21/2021 W	21:11et	22:10t					
07/22/2021 Th	2:49mt	2:29s	3:32r			2:04t	0:47t
07/22/2021 Th	4:31r		11:13t	7:10r	6:44r	7:18s	5:35s
07/22/2021 Th	12:00t	18:54r	18:54s	14:04t	13:43t		
07/22/2021 Th	19:28s			20:57s	20:42s	20:46r	19:54r
07/22/2021 Th	21:10et	23:13t					
07/23/2021 F	2:50mt	3:36s	3:37r			2:00t	0:42t
07/23/2021 F	4:32r		11:18t	7:13r	6:43r	7:13s	5:31s
07/23/2021 F	12:00t		18:58s	14:05t	13:42t		
07/23/2021 F	19:27s	19:37FM					
07/23/2021 F	21:08et	19:46r		20:56s	20:39s	20:42r	19:50r
07/24/2021 Sat	2:52mt	0:15t	3:43r			1:56t	0:38t
07/24/2021 Sat	4:33r	4:49s	11:23t	7:15r	6:42r	7:09s	5:26s
07/24/2021 Sat	12:00t		19:02s	14:06t	13:40t		
07/24/2021 Sat	19:26s	20:27r		20:55s	20:37s	20:38r	19:46r
07/24/2021 Sat	21:07et						
07/25/2021 Sun	2:53mt	1:12t	3:49r			1:51t	0:34t
07/25/2021 Sun	4:34r	6:04s	11:28t	7:18r	6:42r	7:04s	5:22s
07/25/2021 Sun	12:00t		19:06s	14:06t	13:38t		
07/25/2021 Sun	19:25s	20:59r		20:53s	20:35s	20:34r	19:42r
07/25/2021 Sun	21:05et						
07/26/2021 M	2:55mt	2:04t	3:56r			1:47t	0:30t
07/26/2021 M	4:35r	7:18s	11:33t	7:20r	6:41r	7:00s	5:18s
07/26/2021 M	12:00t		19:10s	14:07t	13:37t		
07/26/2021 M	19:24s			20:52s	20:32s	20:30r	19:38r
07/26/2021 M	21:03et	21:26r					

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
07/27/2021 Tu	2:56mt	2:52t	4:02r			1:43t	0:26t
07/27/2021 Tu	4:36r	8:28s	11:38t	7:23r	6:41r	6:55s	5:13s
07/27/2021 Tu	12:00t		19:13s	14:07t	13:35t		
07/27/2021 Tu	19:23s			20:51s	20:30s	20:26r	19:34r
07/27/2021 Tu	21:02et	21:49r					
07/28/2021 W	2:58mt	3:37t	4:09r			1:38t	0:21t
07/28/2021 W	4:37r	9:36s	11:43t	7:25r	6:40r	6:51s	5:09s
07/28/2021 W	12:00t		19:16s	14:08t	13:34t		
07/28/2021 W	19:22s			20:49s	20:27s	20:21r	19:29r
07/28/2021 W	21:00et	22:10r					
07/29/2021 Th	3:00mt	4:19t	4:16r			1:34t	0:17t
07/29/2021 Th	4:38r	10:40s	11:48t	7:28r	6:39r	6:46s	5:05s
07/29/2021 Th	12:00t		19:19s	14:08t	13:32t		
07/29/2021 Th	19:20s			20:48s	20:25s	20:17r	19:25r
07/29/2021 Th	20:59et	22:30r					
07/30/2021 F	3:01mt		4:23r			1:30t	0:13t
07/30/2021 F	4:39r	5:01t		7:30r	6:39r	6:42s	5:00s
07/30/2021 F	12:00t	11:44s	11:53t	14:09t	13:31t		
07/30/2021 F	19:19s		19:22s	20:46s	20:22s	20:13r	19:21r
07/30/2021 F	20:57et	22:50r					
07/31/2021 Sat	3:03mt		4:30r			1:25t	0:09t
07/31/2021 Sat	4:40r	5:43t					4:56s
07/31/2021 Sat	12:00t	6:16LQ	11:58t	7:33r	6:38r	6:37s	
07/31/2021 Sat	19:18s	12:47s	19:24s	14:09t	13:29t	20:09r	19:17r
07/31/2021 Sat	20:55et	23:13r		20:45s	20:20s		
08/01/2021 Sun	3:04mt		4:37r			1:21t	0:04t
08/01/2021 Sun	4:41r	6:26t		7:35r	6:38r	6:33s	4:52s
08/01/2021 Sun	11:59t	13:50s	12:02t	14:10t	13:28t		19:13r
08/01/2021 Sun	19:17s		19:26s	20:43s	20:17s	20:05r	
08/01/2021 Sun	20:53et	23:39r					
08/02/2021 M	3:06mt					1:17t	0:00t
08/02/2021 M	4:43r	7:10t	4:44r	7:37r	6:37r	6:28s	4:47s
08/02/2021 M	11:59t	14:53s	12:07t	14:10t	13:26t		19:09r
08/02/2021 M	19:16s		19:28s	20:42s	20:15s	20:00r	
08/02/2021 M	20:52et						23:56t
08/03/2021 Tu	3:08mt	0:09r				1:12t	4:43s
08/03/2021 Tu	4:44r	7:58t	4:51r	7:40r	6:36r	6:24s	
08/03/2021 Tu	11:59t	15:54s	12:11t	14:11t	13:25t		19:05r
08/03/2021 Tu	19:14s		19:30s	20:40s	20:12s	19:56r	
08/03/2021 Tu	20:50et						23:52t
08/04/2021 W	3:09mt	0:47r				1:08t	4:39s
08/04/2021 W	4:45r	8:47t	4:58r	7:42r	6:36r	6:19s	
08/04/2021 W	11:59t	16:53s	12:16t	14:11t	13:23t		19:00r
08/04/2021 W	19:13s		19:32s	20:39s	20:10s	19:52r	
08/04/2021 W	20:48et						23:48t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/05/2021 Th	3:11mt	1:32r				1:03t	4:34s
08/05/2021 Th	4:46r	9:39t	5:05r	7:45r	6:35r	6:15s	
08/05/2021 Th	11:59t	17:46s	12:20t	14:11t	13:21t		18:56r
08/05/2021 Th	19:12s		19:33s	20:37s	20:07s	19:48r	
08/05/2021 Th	20:46et						23:43t
08/06/2021 F	3:12mt	2:26r				0:59t	4:30s
08/06/2021 F	4:47r	10:32t	5:12r	7:47r	6:35r	6:10s	
08/06/2021 F	11:59t	18:33s	12:24t	14:12t	13:20t		18:52r
08/06/2021 F	19:10s		19:34s	20:36s	20:04s	19:44r	
08/06/2021 F	20:44et						23:39t
08/07/2021 Sat	3:14mt	3:27r				0:55t	4:26s
08/07/2021 Sat	4:48r	11:24t	5:19r	7:49r	6:34r	6:05s	
08/07/2021 Sat	11:59t		12:27t	14:12t	13:18t		18:48r
08/07/2021 Sat	19:09s	19:12s	19:35s	20:34s	20:02s	19:39r	
08/07/2021 Sat	20:42et						23:35t
08/08/2021 Sun	3:16mt	4:35r				0:50t	4:22s
08/08/2021 Sun	4:49r	6:50NM	5:25r	7:52r	6:34r	6:01s	
08/08/2021 Sun	11:59t	12:16t	12:31t	14:13t	13:17t		18:44r
08/08/2021 Sun	19:08s	19:45s	19:35s	20:32s	19:59s	19:35r	
08/08/2021 Sun	20:41et						23:31t
08/09/2021 M	3:17mt					0:46t	4:17s
08/09/2021 M	4:50r	5:45r	5:32r	7:54r	6:33r	5:56s	
08/09/2021 M	11:59t	13:06t	12:35t	14:13t	13:15t		18:40r
08/09/2021 M	19:06s	20:14s	19:36s	20:31s	19:57s	19:31r	
08/09/2021 M	20:39et						23:26t
08/10/2021 Tu	3:19mt					0:41t	4:13s
08/10/2021 Tu	4:52r	6:57r	5:38r	7:56r	6:32r	5:52s	
08/10/2021 Tu	11:58t	13:54t	12:38t	14:13t	13:14t		18:36r
08/10/2021 Tu	19:05s		19:36s	20:29s	19:54s	19:27r	
08/10/2021 Tu	20:37et	20:39s					23:22t
08/11/2021 W	3:21mt					0:37t	4:09s
08/11/2021 W	4:53r	8:08r	5:44r	7:59r	6:32r	5:47s	
08/11/2021 W	11:58t	14:42t	12:41t	14:14t	13:12t		18:32r
08/11/2021 W	19:03s		19:36s	20:28s	19:52s	19:23r	
08/11/2021 W	20:35et	21:02s					23:18t
08/12/2021 Th	3:22mt					0:33t	4:04s
08/12/2021 Th	4:54r	9:21r	5:50r	8:01r	6:31r	5:42s	
08/12/2021 Th	11:58t	15:29t	12:44t	14:14t	13:10t		18:27r
08/12/2021 Th	19:02s		19:36s	20:26s	19:49s	19:18r	
08/12/2021 Th	20:33et	21:25s					23:14t
08/13/2021 F	3:24mt					0:28t	4:00s
08/13/2021 F	4:55r	10:34r	5:56r	8:03r	6:31r	5:38s	
08/13/2021 F	11:58t	16:17t	12:47t	14:14t	13:09t		18:23r
08/13/2021 F	19:00s		19:36s	20:24s	19:47s	19:14r	
08/13/2021 F	20:31et	21:49s					23:09t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/14/2021 Sat	3:25mt					0:24t	3:56s
08/14/2021 Sat	4:56r	11:49r	6:02r	8:06r	6:30r	5:33s	
08/14/2021 Sat	11:58t	17:08t	12:50t	14:15t	13:07t		18:19r
08/14/2021 Sat	18:59s		19:36s	20:23s	19:44s	19:10r	
08/14/2021 Sat	20:29et	22:16s					23:05t
08/15/2021 Sun	3:27mt					0:19t	3:51s
08/15/2021 Sun	4:57r	8:20FQ	6:08r	8:08r	6:29r	5:29s	
08/15/2021 Sun	11:58t	13:06r	12:53t	14:15t	13:06t		
08/15/2021 Sun	18:57s	18:01t	19:35s	20:21s	19:42s	19:06r	18:15r
08/15/2021 Sun	20:27et	22:49s					23:01t
08/16/2021 M	3:28mt					0:15t	3:47s
08/16/2021 M	4:58r		6:14r	8:10r	6:29r	5:24s	
08/16/2021 M	11:57t	14:22r	12:55t	14:15t	13:04t		18:11r
08/16/2021 M	18:56s	18:58t	19:35s	20:19s	19:39s	19:01r	
08/16/2021 M	20:25et	23:29s					22:57t
08/17/2021 Tu	3:30mt					0:10t	3:43s
08/17/2021 Tu	5:00r		6:19r	8:13r	6:28r	5:19s	
08/17/2021 Tu	11:57t	15:36r	12:57t	14:16t	13:03t		18:07r
08/17/2021 Tu	18:54s	19:59t	19:34s	20:18s	19:36s	18:57r	
08/17/2021 Tu	20:23et						22:53t
08/18/2021 W	3:32mt	0:18s				0:06t	3:38s
08/18/2021 W	5:01r		6:24r	8:15r	6:28r	5:15s	
08/18/2021 W	11:57t	16:42r	13:00t	14:16t	13:01t		18:03r
08/18/2021 W	18:52s		19:33s	20:16s	19:34s	18:53r	
08/18/2021 W	20:21et	21:00t					22:48t
08/19/2021 Th	3:33mt	1:19s				0:02t	3:34s
08/19/2021 Th	5:02r		6:30r	8:17r	6:27r	5:10s	
08/19/2021 Th	11:57t	17:38r	13:02t	14:16t	12:59t	18:49r	17:59r
08/19/2021 Th	18:51s		19:33s	20:14s	19:31s		
08/19/2021 Th	20:19et	22:01t				23:57t	22:44t
08/20/2021 F	3:35mt	2:28s					3:30s
08/20/2021 F	5:03r		6:35r	8:20r	6:26r	5:05s	
08/20/2021 F	11:56t	18:22r	13:04t	14:17t	12:58t	18:44r	17:54r
08/20/2021 F	18:49s		19:32s	20:13s	19:29s		
08/20/2021 F	20:17et	22:59t				23:53t	22:40t
08/21/2021 Sat	3:36mt	3:42s				5:01s	3:26s
08/21/2021 Sat	5:04r		6:39r	8:22r	6:26r		
08/21/2021 Sat	11:56t		13:06t	14:17t	12:56t	18:40r	17:50r
08/21/2021 Sat	18:48s	18:57r	19:31s	20:11s	19:26s		
08/21/2021 Sat	20:15et	23:53t				23:48t	22:36t
08/22/2021 Sun	3:38mt	4:57s				4:56s	3:21s
08/22/2021 Sun	5:05r	5:02FM	6:44r	8:24r	6:25r		
08/22/2021 Sun	11:56t		13:08t	14:17t	12:55t	18:36r	17:46r
08/22/2021 Sun	18:46s	19:26r	19:29s	20:09s	19:23s		
08/22/2021 Sun	20:13et					23:44t	22:32t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
08/23/2021 M	3:39mt	0:42t				4:52s	3:17s
08/23/2021 M	5:06r	6:09s	6:49r	8:27r	6:25r		
08/23/2021 M	11:56t		13:09t	14:18t	12:53t	18:32r	17:42r
08/23/2021 M	18:44s	19:50r	19:28s	20:07s	19:21s		
08/23/2021 M	20:11et					23:39t	22:27t
08/24/2021 Tu	3:41mt	1:29t				4:47s	3:13s
08/24/2021 Tu	5:08r	7:18s	6:53r	8:29r	6:24r		
08/24/2021 Tu	11:55t		13:11t	14:18t	12:51t	18:27r	17:38r
08/24/2021 Tu	18:42s		19:27s	20:06s	19:18s		
08/24/2021 Tu	20:09et	20:12r				23:35t	22:23t
08/25/2021 W	3:42mt	2:12t				4:42s	3:08s
08/25/2021 W	5:09r	8:25s	6:58r	8:31r	6:23r		
08/25/2021 W	11:55t		13:12t	14:18t	12:50t	18:23r	17:34r
08/25/2021 W	18:41s		19:26s	20:04s	19:16s		
08/25/2021 W	20:07et	20:32r				23:31t	22:19t
08/26/2021 Th	3:44mt	2:55t				4:38s	3:04s
08/26/2021 Th	5:10r	9:29s	7:02r	8:33r	6:23r		
08/26/2021 Th	11:55t		13:14t	14:18t	12:48t	18:19r	17:30r
08/26/2021 Th	18:39s		19:24s	20:02s	19:13s		
08/26/2021 Th	20:05et	20:53r				23:26t	22:15t
08/27/2021 F	3:45mt	3:37t				4:33s	3:00s
08/27/2021 F	5:11r	10:33s	7:06r	8:36r	6:22r		
08/27/2021 F	11:55t		13:15t	14:19t	12:47t	18:15r	17:26r
08/27/2021 F	18:37s		19:23s	20:01s	19:11s		
08/27/2021 F	20:03et	21:14r				23:22t	22:11t
08/28/2021 Sat	3:47mt	4:20t				4:28s	2:56s
08/28/2021 Sat	5:12r	11:37s	7:10r	8:38r	6:22r		
08/28/2021 Sat	11:54t		13:16t	14:19t	12:45t	18:11r	17:22r
08/28/2021 Sat	18:36s		19:21s	19:59s	19:08s		
08/28/2021 Sat	20:01et	21:39r				23:17t	22:06t
08/29/2021 Sun	3:48mt	5:04t				4:24s	2:51s
08/29/2021 Sun	5:13r		7:14r	8:40r	6:21r		
08/29/2021 Sun	11:54t	12:40s	13:18t	14:19t	12:43t	18:06r	17:17r
08/29/2021 Sun	18:34s		19:20s	19:57s	19:05s		
08/29/2021 Sun	19:59et	22:07r				23:13t	22:02t
08/30/2021 M	3:50mt	0:13LQ				4:19s	2:47s
08/30/2021 M	5:14r	5:50t	7:18r	8:43r	6:21r		
08/30/2021 M	11:54t	13:43s	13:19t	14:20t	12:42t	18:02r	17:13r
08/30/2021 M	18:32s		19:18s	19:56s	19:03s		
08/30/2021 M	19:56et	22:41r				23:08t	21:58t
08/31/2021 Tu	3:51mt					4:15s	2:43s
08/31/2021 Tu	5:16r	6:39t	7:22r	8:45r	6:20r		
08/31/2021 Tu	11:53t	14:43s	13:20t	14:20t	12:40t	17:58r	17:09r
08/31/2021 Tu	18:30s		19:16s	19:54s	19:00s		
08/31/2021 Tu	19:54et	23:23r				23:04t	21:54t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/01/2021 W	3:53mt					4:10s	2:39s
09/01/2021 W	5:17r	7:29t	7:25r	8:47r	6:19r		
09/01/2021 W	11:53t	15:38s	13:20t	14:20t	12:39t	17:54r	17:05r
09/01/2021 W	18:29s		19:14s	19:52s	18:58s		
09/01/2021 W	19:52et					23:00t	21:50t
09/02/2021 Th	3:54mt	0:13r				4:06s	2:34s
09/02/2021 Th	5:18r	8:22t	7:29r	8:50r	6:19r		
09/02/2021 Th	11:53t	16:27s	13:21t	14:21t	12:37t	17:49r	17:01r
09/02/2021 Th	18:27s		19:13s		18:55s		
09/02/2021 Th	19:50et			19:51s		22:55t	21:46t
09/03/2021 F	3:55mt	1:12r				4:01s	2:30s
09/03/2021 F	5:19r	9:14t	7:32r	8:52r	6:18r		
09/03/2021 F	11:52t	17:09s	13:22t	14:21t	12:36t	17:45r	16:57r
09/03/2021 F	18:25s		19:11s		18:52s		
09/03/2021 F	19:48et			19:49s		22:51t	21:41t
09/04/2021 Sat	3:57mt	2:17r				3:56s	2:26s
09/04/2021 Sat	5:20r	10:06t	7:35r	8:54r	6:18r		
09/04/2021 Sat	11:52t	17:45s	13:22t	14:21t	12:34t	17:41r	16:53r
09/04/2021 Sat	18:23s		19:09s		18:50s		
09/04/2021 Sat	19:46et			19:47s		22:46t	21:37t
09/05/2021 Sun	3:58mt	3:27r				3:52s	2:22s
09/05/2021 Sun	5:21r	10:57t	7:38r	8:56r	6:17r		
09/05/2021 Sun	11:52t	18:15s	13:23t	14:22t	12:32t	17:37r	16:49r
09/05/2021 Sun	18:21s		19:07s		18:47s		
09/05/2021 Sun	19:44et			19:46s		22:42t	21:33t
09/06/2021 M	4:00mt	4:40r				3:47s	2:17s
09/06/2021 M	5:22r	11:47t	7:41r	8:59r	6:16r		
09/06/2021 M	11:51t	17:52NM	13:23t	14:22t	12:31t	17:32r	16:45r
09/06/2021 M	18:20s	18:41s	19:05s		18:45s		
09/06/2021 M	19:42et			19:44s		22:38t	21:29t
09/07/2021 Tu	4:01mt					3:43s	2:13s
09/07/2021 Tu	5:24r	5:53r	7:44r	9:01r	6:16r		
09/07/2021 Tu	11:51t	12:36t	13:24t	14:22t	12:29t	17:28r	16:41r
09/07/2021 Tu	18:18s	19:05s	19:03s		18:42s		
09/07/2021 Tu	19:40et			19:42s		22:33t	21:25t
09/08/2021 W	4:02mt					3:38s	2:09s
09/08/2021 W	5:25r	7:07r	7:46r	9:03r	6:15r		
09/08/2021 W	11:51t	13:24t	13:24t	14:23t	12:28t	17:24r	16:37r
09/08/2021 W	18:16s	19:28s	19:01s		18:39s		
09/08/2021 W	19:38et			19:41s		22:29t	21:21t
09/09/2021 Th	4:04mt					3:34s	2:05s
09/09/2021 Th	5:26r	8:22r	7:49r	9:06r	6:15r		
09/09/2021 Th	11:50t	14:13t	13:24t	14:23t	12:26t	17:20r	16:32r
09/09/2021 Th	18:14s		18:58s		18:37s		
09/09/2021 Th	19:36et	19:52s		19:39s		22:25t	21:17t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/10/2021 F	4:05mt					3:29s	2:01s
09/10/2021 F	5:27r	9:38r	7:51r	9:08r	6:14r		
09/10/2021 F	11:50t	15:04t	13:24t	14:23t	12:24t	17:16r	16:28r
09/10/2021 F	18:12s		18:56s		18:34s		
09/10/2021 F	19:34et	20:19s		19:38s		22:20t	21:12t
09/11/2021 Sat	4:06mt					3:25s	1:57s
09/11/2021 Sat	5:28r	10:56r	7:53r	9:10r	6:14r		
09/11/2021 Sat	11:50t	15:57t	13:24t	14:24t	12:23t	17:11r	16:24r
09/11/2021 Sat	18:10s		18:54s		18:32s		
09/11/2021 Sat	19:32et	20:50s		19:36s		22:16t	21:08t
09/12/2021 Sun	4:08mt					3:20s	1:52s
09/12/2021 Sun	5:29r		7:55r	9:13r	6:13r		
09/12/2021 Sun	11:49t	12:13r	13:23t	14:24t	12:21t		16:20r
09/12/2021 Sun	18:09s	16:54t	18:51s		18:29s	17:07r	
09/12/2021 Sun	19:30et	21:27s		19:35s		22:11t	21:04t
09/13/2021 M	4:09mt					3:16s	1:48s
09/13/2021 M	5:30r		7:56r	9:15r	6:12r		
09/13/2021 M	11:49t	13:28r	13:23t		12:20t		
09/13/2021 M		13:39FQ		14:24t		17:03r	16:16r
09/13/2021 M	18:07s	17:53t	18:49s		18:26s		
09/13/2021 M	19:28et	22:13s		19:33s		22:07t	21:00t
09/14/2021 Tu	4:10mt					3:11s	1:44s
09/14/2021 Tu	5:32r		7:58r	9:17r	6:12r		
09/14/2021 Tu	11:49t	14:36r	13:23t	14:25t	12:18t	16:59r	16:12r
09/14/2021 Tu	18:05s	18:53t	18:46s		18:24s		
09/14/2021 Tu	19:26et	23:10s		19:32s		22:03t	20:56t
09/15/2021 W	4:12mt					3:07s	1:40s
09/15/2021 W	5:33r		7:59r	9:20r	6:11r		
09/15/2021 W	11:48t	15:34r	13:22t	14:25t	12:16t	16:55r	16:08r
09/15/2021 W	18:03s		18:44s		18:21s		
09/15/2021 W	19:24et	19:53t		19:30s		21:59t	20:52t
09/16/2021 Th	4:13mt	0:16s				3:02s	1:36s
09/16/2021 Th	5:34r		8:00r	9:22r	6:11r		
09/16/2021 Th	11:48t	16:21r	13:21t	14:26t	12:15t	16:51r	16:04r
09/16/2021 Th	18:01s		18:41s		18:19s		
09/16/2021 Th	19:22et	20:51t		19:29s		21:54t	20:48t
09/17/2021 F	4:14mt	1:27s				2:58s	1:32s
09/17/2021 F	5:35r		8:01r	9:24r	6:10r		
09/17/2021 F	11:47t	16:58r	13:20t	14:26t	12:13t	16:46r	16:00r
09/17/2021 F	17:59s		18:38s		18:16s		
09/17/2021 F	19:20et	21:45t		19:27s		21:50t	20:44t
09/18/2021 Sat	4:16mt	2:40s				2:53s	1:27s
09/18/2021 Sat	5:36r		8:01r	9:27r	6:10r		
09/18/2021 Sat	11:47t	17:28r	13:18t	14:27t	12:12t	16:42r	15:56r
09/18/2021 Sat	17:57s		18:35s		18:13s		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/18/2021 Sat	19:18et	22:35t		19:26s		21:46t	20:40t
09/19/2021 Sun	4:17mt	3:52s				2:49s	1:23s
09/19/2021 Sun	5:37r		8:01r	9:29r	6:09r		
09/19/2021 Sun	11:47t	17:53r	13:17t	14:27t	12:10t	16:38r	15:52r
09/19/2021 Sun	17:56s		18:32s		18:11s		
09/19/2021 Sun	19:16et	23:22t		19:24s		21:41t	20:36t
09/20/2021 M	4:18mt	5:02s				2:45s	1:19s
09/20/2021 M	5:38r		8:01r	9:31r	6:09r		
09/20/2021 M	11:46t	16:55FM	13:15t	14:27t	12:09t	16:34r	15:48r
09/20/2021 M	17:54s	18:15r	18:29s		18:08s		
09/20/2021 M	19:14et			19:23s		21:37t	20:32t
09/21/2021 Tu	4:20mt	0:06t				2:40s	1:15s
09/21/2021 Tu	5:40r	6:09s	8:00r	9:34r	6:08r		
09/21/2021 Tu	11:46t		13:13t	14:28t	12:07t	16:30r	15:44r
09/21/2021 Tu	17:52s	18:35r	18:26s		18:06s		
09/21/2021 Tu	19:12et			19:22s		21:33t	20:27t
09/22/2021 W	4:21mt	0:49t				2:36s	1:11s
09/22/2021 W	5:41r	7:15s	7:59r	9:36r	6:07r		
09/22/2021 W	11:46t				12:05t		
09/22/2021 W	12:21SE		13:11t	14:28t		16:26r	15:40r
09/22/2021 W	17:50s	18:55r	18:23s		18:03s		
09/22/2021 W	19:10et			19:20s		21:29t	20:23t
09/23/2021 Th	4:22mt	1:31t				2:32s	1:07s
09/23/2021 Th	5:42r	8:20s	7:57r	9:38r	6:07r		
09/23/2021 Th	11:45t		13:08t	14:29t	12:04t	16:21r	15:36r
09/23/2021 Th	17:48s		18:19s		18:00s		
09/23/2021 Th	19:08et	19:16r		19:19s		21:24t	20:19t
09/24/2021 F	4:23mt	2:14t				2:27s	1:03s
09/24/2021 F	5:43r	9:24s	7:55r	9:40r	6:06r		
09/24/2021 F	11:45t		13:05t	14:29t	12:02t	16:17r	15:32r
09/24/2021 F	17:46s		18:16s		17:58s		
09/24/2021 F	19:06et	19:39r		19:18s		21:20t	20:15t
09/25/2021 Sat	4:25mt	2:58t				2:23s	0:59s
09/25/2021 Sat	5:44r	10:28s	7:52r	9:43r	6:06r		
09/25/2021 Sat	11:45t		13:02t	14:30t	12:01t	16:13r	15:28r
09/25/2021 Sat	17:44s		18:12s		17:55s		
09/25/2021 Sat	19:04et	20:06r		19:17s		21:16t	20:11t
09/26/2021 Sun	4:26mt	3:43t				2:19s	0:55s
09/26/2021 Sun	5:45r	11:31s	7:49r	9:45r	6:05r		
09/26/2021 Sun	11:44t		12:59t	14:31t	11:59t	16:09r	15:24r
09/26/2021 Sun	17:43s		18:08s		17:53s		
09/26/2021 Sun	19:02et	20:38r		19:15s		21:12t	20:07t
09/27/2021 M	4:27mt	4:31t				2:14s	0:51s
09/27/2021 M	5:47r		7:45r	9:47r	6:05r		
09/27/2021 M	11:44t	12:32s	12:55t	14:31t	11:58t	16:05r	15:20r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
09/27/2021 M	17:41s		18:04s		17:50s		
09/27/2021 M	19:00et	21:16r		19:14s		21:07t	20:03t
09/28/2021 Tu	4:28mt	5:21t				2:10s	0:47s
09/28/2021 Tu	5:48r		7:41r	9:50r	6:04r		
09/28/2021 Tu	11:44t	13:29s	12:50t	14:32t	11:56t	16:01r	15:16r
09/28/2021 Tu	17:39s	18:57LQ	18:00s		17:48s		
09/28/2021 Tu	18:58et	22:02r		19:13s		21:03t	19:59t
09/29/2021 W	4:30mt					2:06s	0:43s
09/29/2021 W	5:49r	6:12t	7:36r	9:52r	6:04r		
09/29/2021 W	11:43t	14:20s	12:45t	14:32t	11:55t	15:57r	15:12r
09/29/2021 W	17:37s		17:55s		17:45s		
09/29/2021 W	18:56et	22:56r		19:12s		20:59t	19:55t
09/30/2021 Th	4:31mt					2:01s	0:39s
09/30/2021 Th	5:50r	7:03t	7:30r	9:54r	6:03r		
09/30/2021 Th	11:43t	15:05s	12:40t	14:33t	11:53t	15:53r	15:08r
09/30/2021 Th	17:35s		17:51s		17:42s		
09/30/2021 Th	18:54et	23:58r		19:11s		20:55t	19:51t
10/01/2021 F	4:32mt					1:57s	0:35s
10/01/2021 F	5:51r	7:55t	7:23r	9:56r	6:03r		
10/01/2021 F	11:43t	15:42s	12:34t	14:33t	11:52t	15:49r	15:04r
10/01/2021 F	17:33s		17:46s		17:40s		
10/01/2021 F	18:52et			19:10s		20:51t	19:47t
10/02/2021 Sat	4:33mt	1:06r				1:53s	0:31s
10/02/2021 Sat	5:52r	8:46t	7:16r	9:58r	6:02r		
10/02/2021 Sat	11:42t	16:14s	12:28t	14:34t	11:50t	15:45r	15:00r
10/02/2021 Sat	17:32s		17:41s		17:37s		
10/02/2021 Sat	18:51et			19:09s		20:47t	19:43t
10/03/2021 Sun	4:34mt	2:17r				1:49s	0:27s
10/03/2021 Sun	5:54r	9:36t	7:08r	10:01r	6:02r		
10/03/2021 Sun	11:42t	16:41s	12:22t	14:35t	11:48t	15:41r	14:56r
10/03/2021 Sun	17:30s		17:37s		17:35s		
10/03/2021 Sun	18:49et			19:08s		20:43t	19:39t
10/04/2021 M	4:36mt	3:30r				1:45s	0:23s
10/04/2021 M	5:55r	10:25t	6:59r	10:03r	6:01r		
10/04/2021 M	11:42t	17:06s	12:15t	14:35t	11:47t	15:36r	14:52r
10/04/2021 M	17:28s		17:32s		17:32s		
10/04/2021 M	18:47et			19:07s		20:38t	19:35t
10/05/2021 Tu	4:37mt	4:45r				1:40s	0:19s
10/05/2021 Tu	5:56r	11:14t	6:50r	10:05r	6:01r		
10/05/2021 Tu	11:41t		12:08t	14:36t	11:45t	15:32r	14:48r
10/05/2021 Tu	17:26s	17:30s	17:27s		17:30s		
10/05/2021 Tu	18:45et			19:06s		20:34t	19:31t
10/06/2021 W	4:38mt	4:05NM				1:36s	0:15s
10/06/2021 W	5:57r	6:01r	6:40r	10:07r	6:00r		
10/06/2021 W	11:41t	12:03t	12:00t	14:36t	11:44t	15:28r	14:44r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/06/2021 W	17:24s	17:53s	17:22s		17:27s		
10/06/2021 W	18:43et			19:05s		20:30t	19:27t
10/07/2021 Th	4:39mt					1:32s	0:11s
10/07/2021 Th	5:58r	7:18r	6:29r	10:09r	6:00r		
10/07/2021 Th	11:41t	12:55t	11:52t	14:37t	11:42t	15:24r	14:40r
10/07/2021 Th	17:23s	18:19s	17:17s		17:25s		
10/07/2021 Th	18:42et			19:04s		20:26t	19:23t
10/08/2021 F	4:41mt				5:59r	1:28s	0:07s
10/08/2021 F	6:00r	8:38r	6:19r	10:11r			
10/08/2021 F	11:41t	13:49t	11:44t	14:38t	11:41t	15:20r	14:36r
10/08/2021 F	17:21s		17:12s		17:22s		
10/08/2021 F	18:40et	18:49s		19:04s		20:22t	19:19t
10/09/2021 Sat	4:42mt				5:59r	1:24s	0:03s
10/09/2021 Sat	6:01r	9:59r	6:08r	10:13r			
10/09/2021 Sat	11:40t	14:46t	11:37t	14:38t	11:39t	15:16r	14:32r
10/09/2021 Sat	17:19s		17:07s		17:19s		
10/09/2021 Sat	18:38et	19:24s		19:03s		20:18t	19:16t
10/09/2021 Sat							23:59s
10/10/2021 Sun	4:43mt		5:57r		5:58r	1:20s	
10/10/2021 Sun	6:02r	11:18r	11:29t	10:15r	11:38t		
10/10/2021 Sun	11:40t	15:46t	17:02s	14:39t	17:17s	15:12r	14:28r
10/10/2021 Sun	17:17s						
10/10/2021 Sun	18:36et	20:09s		19:02s		20:14t	19:12t
10/10/2021 Sun							23:55s
10/11/2021 M	4:44mt		5:47r		5:58r	1:16s	
10/11/2021 M	6:03r		11:21t	10:17r	11:36t		
10/11/2021 M	11:40t	12:30r		14:40t		15:08r	14:24r
10/11/2021 M	17:16s	16:47t	16:57s		17:14s		
10/11/2021 M	18:35et	21:03s		19:02s		20:10t	19:08t
10/11/2021 M							23:51s
10/12/2021 Tu	4:45mt		5:37r		5:57r	1:12s	
10/12/2021 Tu	6:05r		11:14t	10:19r	11:35t		
10/12/2021 Tu	11:40t	13:32r	16:53s	14:40t	17:12s	15:04r	14:20r
10/12/2021 Tu	17:14s	17:48t					
10/12/2021 Tu	18:33et	20:25FQ		19:01s		20:06t	19:04t
10/12/2021 Tu		22:07s					23:47s
10/13/2021 W	4:47mt		5:27r		5:57r	1:08s	
10/13/2021 W	6:06r		11:07t	10:21r	11:33t		
10/13/2021 W	11:39t	14:22r	16:49s	14:41t	17:09s	15:00r	14:17r
10/13/2021 W	17:12s						
10/13/2021 W	18:31et	18:47t		19:00s		20:02t	19:00t
10/13/2021 W		23:17s					23:43s
10/14/2021 Th	4:48mt		5:18r		5:56r	1:04s	
10/14/2021 Th	6:07r		11:01t	10:23r	11:32t		
10/14/2021 Th	11:39t	15:01r	16:45s	14:42t	17:07s	14:56r	14:13r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/22/2021 F	4:57mt	0:53t	4:42r		5:53r	0:32s	
10/22/2021 F	6:17r	8:16s	10:33t	10:36r	11:20t		
10/22/2021 F	11:38t		16:24s	14:47t	16:47s	14:25r	13:41r
10/22/2021 F	16:57s	18:07r					
10/22/2021 F	18:17et			18:57s		19:27t	18:25t
10/22/2021 F							23:08s
10/23/2021 Sat	4:58mt	1:38t	4:41r		5:52r	0:29s	
10/23/2021 Sat	6:18r	9:20s	10:32t	10:38r	11:19t		
10/23/2021 Sat	11:37t		16:23s	14:47t	16:45s	14:21r	13:38r
10/23/2021 Sat	16:56s						
10/23/2021 Sat	18:16et	18:36r		18:57s		19:23t	18:21t
10/23/2021 Sat							23:04s
10/24/2021 Sun	5:00mt	2:25t	4:42r		5:52r	0:25s	
10/24/2021 Sun	6:20r	10:22s	10:32t	10:39r	11:17t		
10/24/2021 Sun	11:37t		16:21s	14:48t	16:42s	14:17r	13:34r
10/24/2021 Sun	16:54s						
10/24/2021 Sun	18:14et	19:12r		18:57s		19:19t	18:17t
10/24/2021 Sun							23:01s
10/25/2021 M	5:01mt	3:14t	4:43r		5:51r	0:21s	
10/25/2021 M	6:21r	11:21s	10:31t	10:40r	11:16t		
10/25/2021 M	11:37t		16:20s	14:49t	16:40s	14:13r	13:30r
10/25/2021 M	16:53s						
10/25/2021 M	18:13et	19:54r		18:57s		19:15t	18:13t
10/25/2021 M							22:57s
10/26/2021 Tu	5:02mt	4:04t	4:44r		5:51r	0:17s	
10/26/2021 Tu	6:22r		10:32t	10:41r	11:14t		
10/26/2021 Tu	11:37t	12:14s	16:19s	14:49t	16:37s	14:09r	13:26r
10/26/2021 Tu	16:51s						18:10t
10/26/2021 Tu	18:11et	20:45r		18:57s		19:11t	22:53s
10/27/2021 W	5:03mt	4:55t	4:46r		5:51r	0:13s	
10/27/2021 W	6:24r		10:32t	10:43r	11:13t		
10/27/2021 W	11:37t	13:01s	16:17s	14:50t	16:35s	14:05r	13:22r
10/27/2021 W	16:50s						18:06t
10/27/2021 W	18:10et	21:43r		18:57s		19:08t	22:49s
10/28/2021 Th	5:04mt	5:46t	4:49r		5:50r	0:10s	
10/28/2021 Th	6:25r		10:33t	10:44r	11:12t		
10/28/2021 Th	11:37t	13:05LQ					13:18r
10/28/2021 Th	16:48s	13:40s	16:16s	14:50t	16:33s	14:02r	18:02t
10/28/2021 Th	18:09et	22:47r		18:57s		19:04t	22:46s
10/29/2021 F	5:06mt		4:52r		5:50r	0:06s	
10/29/2021 F	6:26r	6:36t	10:34t	10:45r	11:10t		
10/29/2021 F	11:37t	14:13s	16:16s	14:51t	16:30s	13:58r	13:14r
10/29/2021 F	16:47s						17:58t
10/29/2021 F	18:07et	23:55r		18:57s		19:00t	22:42s
10/30/2021 Sat	5:07mt		4:55r		5:49r	0:02s	

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
10/30/2021 Sat	6:28r	7:25t	10:35t	10:46r	11:09t		
10/30/2021 Sat	11:37t	14:41s	16:15s	14:51t	16:28s	13:54r	13:11r
10/30/2021 Sat	16:45s						17:54t
10/30/2021 Sat	18:06et			18:57s		18:56t	22:38s
10/30/2021 Sat						23:58s	
10/31/2021 Sun	5:08mt	1:06r	4:59r		5:49r		
10/31/2021 Sun	6:29r	8:13t	10:37t	10:46r	11:07t		
10/31/2021 Sun	11:37t	15:07s	16:14s	14:52t	16:26s	13:50r	13:07r
10/31/2021 Sun	16:44s						17:51t
10/31/2021 Sun	18:05et			18:57s		18:52t	22:34s
10/31/2021 Sun						23:55s	
11/01/2021 M	5:09mt	2:18r	5:02r		5:49r		
11/01/2021 M	6:30r	9:01t	10:38t	10:47r	11:06t		
11/01/2021 M	11:37t	15:30s	16:13s	14:52t	16:23s	13:46r	13:03r
11/01/2021 M	16:43s						17:47t
11/01/2021 M	18:04et			18:57s		18:49t	22:30s
11/01/2021 M						23:51s	
11/02/2021 Tu	5:10mt	3:33r	5:06r		5:48r		
11/02/2021 Tu	6:32r	9:49t	10:40t	10:48r	11:05t		
11/02/2021 Tu	11:37t	15:53s	16:12s	14:53t	16:21s	13:42r	12:59r
11/02/2021 Tu	16:41s						17:43t
11/02/2021 Tu	18:03et			18:58s		18:45t	22:27s
11/02/2021 Tu						23:47s	
11/03/2021 W	5:12mt	4:50r	5:11r		5:48r		
11/03/2021 W	6:33r	10:40t	10:42t	10:48r	11:03t		
11/03/2021 W	11:37t	16:17s	16:12s	14:53t	16:18s	13:39r	12:55r
11/03/2021 W	16:40s						17:39t
11/03/2021 W	18:01et			18:58s		18:41t	22:23s
11/03/2021 W						23:44s	
11/04/2021 Th	5:13mt	6:10r	5:15r		5:47r		
11/04/2021 Th	6:34r	11:33t	10:44t	10:49r	11:02t		
11/04/2021 Th	11:37t	14:15NM	16:11s	14:53t	16:16s	13:35r	12:52r
11/04/2021 Th	16:39s	16:45s					17:35t
11/04/2021 Th	18:00et			18:58s		18:37t	22:19s
11/04/2021 Th						23:40s	
11/05/2021 F	5:14mt		5:19r		5:47r		
11/05/2021 F	6:36r	7:32r	10:45t	10:49r	11:01t		
11/05/2021 F	11:37t	12:30t	16:11s	14:54t	16:14s	13:31r	12:48r
11/05/2021 F	16:37s	17:18s					17:32t
11/05/2021 F	17:59et			18:58s		18:34t	22:16s
11/05/2021 F						23:37s	
11/06/2021 Sat	5:15mt		5:24r		5:47r		
11/06/2021 Sat	6:37r	8:56r	10:47t	10:50r	10:59t		
11/06/2021 Sat	11:37t	13:31t	16:10s	14:54t	16:11s	13:27r	12:44r
11/06/2021 Sat	16:36s						17:28t

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/06/2021 Sat	17:58et	18:00s		18:59s		18:30t	22:12s
11/06/2021 Sat						23:33s	
11/07/2021 Sun	5:16mt		5:28r		5:46r		
11/07/2021 Sun	6:38r	10:14r	10:50t	10:50r	10:58t		
11/07/2021 Sun	11:37t	14:34t	16:09s	14:54t	16:09s	13:23r	12:40r
11/07/2021 Sun	16:35s						17:24t
11/07/2021 Sun	17:57et	18:52s		18:59s		18:26t	22:08s
11/07/2021 Sun						23:29s	
11/08/2021 M	5:17mt		5:33r		5:46r		
11/08/2021 M	6:40r	11:23r	10:52t	10:50r	10:57t		
11/08/2021 M	11:37t	15:38t	16:09s	14:55t	16:07s	13:20r	12:36r
11/08/2021 M	16:34s						17:20t
11/08/2021 M	17:56et	19:54s		18:59s		18:23t	22:05s
11/08/2021 M						23:26s	
11/09/2021 Tu	5:19mt		5:38r		5:45r		
11/09/2021 Tu	6:41r		10:54t	10:50r	10:55t		
11/09/2021 Tu	11:37t	12:19r	16:09s	14:55t	16:05s	13:16r	12:33r
11/09/2021 Tu	16:33s	16:40t					17:17t
11/09/2021 Tu	17:55et	21:05s		18:59s		18:19t	22:01s
11/09/2021 Tu						23:22s	
11/10/2021 W	5:20mt		5:43r		5:45r		
11/10/2021 W	6:42r		10:56t	10:50r	10:54t		
11/10/2021 W	11:37t	13:03r	16:08s	14:55t	16:02s	13:12r	12:29r
11/10/2021 W	16:32s	17:37t					17:13t
11/10/2021 W	17:54et	22:19s		19:00s		18:15t	21:57s
11/10/2021 W						23:19s	
11/11/2021 Th	5:21mt	5:46FQ	5:47r		5:45r		
11/11/2021 Th	6:44r		10:58t	10:50r	10:53t		
11/11/2021 Th	11:37t	13:37r	16:08s	14:55t	16:00s	13:08r	12:25r
11/11/2021 Th	16:30s						17:09t
11/11/2021 Th	17:53et	18:30t		19:00s		18:12t	21:54s
11/11/2021 Th		23:32s				23:15s	
11/12/2021 F	5:22mt		5:52r		5:44r		
11/12/2021 F	6:45r		11:00t	10:50r	10:51t		
11/12/2021 F	11:37t	14:04r	16:08s	14:55t	15:58s	13:05r	12:21r
11/12/2021 F	16:29s						17:05t
11/12/2021 F	17:52et	19:18t		19:00s		18:08t	21:50s
11/12/2021 F						23:12s	
11/13/2021 Sat	5:23mt	0:42s	5:57r		5:44r		
11/13/2021 Sat	6:46r		11:03t	10:49r	10:50t		
11/13/2021 Sat	11:38t	14:26r	16:07s	14:55t	15:56s	13:01r	12:17r
11/13/2021 Sat	16:28s						17:02t
11/13/2021 Sat	17:51et	20:03t		19:01s		18:05t	21:46s
11/13/2021 Sat						23:08s	
11/14/2021 Sun	5:24mt	1:49s	6:02r		5:44r		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/14/2021 Sun	6:48r		11:05t	10:49r	10:49t		
11/14/2021 Sun	11:38t	14:47r	16:07s	14:55t	15:53s	12:57r	12:14r
11/14/2021 Sun	16:27s						16:58t
11/14/2021 Sun	17:51et	20:45t		19:01s		18:01t	21:43s
11/14/2021 Sun						23:05s	
11/15/2021 M	5:25mt	2:55s	6:07r		5:43r		
11/15/2021 M	6:49r		11:07t	10:48r	10:47t		
11/15/2021 M	11:38t	15:06r	16:07s	14:55t	15:51s	12:53r	12:10r
11/15/2021 M	16:26s						16:54t
11/15/2021 M	17:50et	21:27t		19:01s		17:57t	21:39s
11/15/2021 M						23:01s	
11/16/2021 Tu	5:27mt	3:59s	6:11r		5:43r		
11/16/2021 Tu	6:50r		11:10t	10:48r	10:46t		
11/16/2021 Tu	11:38t	15:26r	16:07s	14:54t	15:49s	12:50r	12:06r
11/16/2021 Tu	16:25s						16:51t
11/16/2021 Tu	17:49et	22:08t		19:02s		17:54t	21:35s
11/16/2021 Tu						22:58s	
11/17/2021 W	5:28mt	5:02s	6:16r		5:43r		
11/17/2021 W	6:51r		11:12t	10:47r	10:45t		
11/17/2021 W	11:38t	15:47r	16:07s	14:54t	15:47s	12:46r	12:02r
11/17/2021 W	16:25s						16:47t
11/17/2021 W	17:48et	22:51t		19:02s		17:50t	21:32s
11/17/2021 W						22:55s	
11/18/2021 Th	5:29mt	6:06s	6:21r		5:42r		
11/18/2021 Th	6:53r		11:14t	10:46r	10:44t		
11/18/2021 Th	11:38t	16:10r	16:07s	14:54t	15:45s	12:42r	11:59r
11/18/2021 Th	16:24s					17:47t	16:43t
11/18/2021 Th	17:48et	23:35t		19:02s		22:51s	21:28s
11/19/2021 F	5:30mt	1:57FM	6:26r		5:42r		
11/19/2021 F	6:54r	7:10s	11:17t	10:45r	10:42t		
11/19/2021 F	11:39t		16:07s	14:53t	15:42s	12:39r	11:55r
11/19/2021 F	16:23s	16:38r				17:43t	16:40t
11/19/2021 F	17:47et			19:02s		22:48s	21:24s
11/20/2021 Sat	5:31mt	0:21t	6:31r		5:42r		
11/20/2021 Sat	6:55r	8:14s	11:19t	10:44r	10:41t		
11/20/2021 Sat	11:39t		16:07s	14:53t	15:40s	12:35r	11:51r
11/20/2021 Sat	16:22s	17:11r				17:40t	16:36t
11/20/2021 Sat	17:46et			19:02s		22:44s	21:21s
11/21/2021 Sun	5:32mt	1:09t	6:35r		5:41r		
11/21/2021 Sun	6:57r	9:14s	11:22t	10:43r	10:40t		
11/21/2021 Sun	11:39t		16:07s	14:52t	15:38s	12:31r	11:47r
11/21/2021 Sun	16:21s					17:36t	16:32t
11/21/2021 Sun	17:46et	17:51r		19:03s		22:41s	21:17s
11/22/2021 M	5:33mt	1:59t	6:40r		5:41r		
11/22/2021 M	6:58r	10:09s	11:24t	10:41r	10:39t		

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
11/22/2021 M	11:39t		16:08s	14:52t	15:36s	12:28r	11:44r
11/22/2021 M	16:21s					17:33t	16:29t
11/22/2021 M	17:45et	18:39r		19:03s		22:38s	21:14s
11/23/2021 Tu	5:34mt	2:50t	6:45r		5:41r		
11/23/2021 Tu	6:59r	10:58s	11:27t	10:40r	10:37t		
11/23/2021 Tu	11:40t		16:08s	14:51t	15:34s	12:24r	11:40r
11/23/2021 Tu	16:20s					17:29t	16:25t
11/23/2021 Tu	17:45et	19:34r		19:03s		22:34s	21:10s
11/24/2021 W	5:35mt	3:40t	6:49r		5:40r		
11/24/2021 W	7:00r	11:40s	11:29t	10:38r	10:36t		11:36r
11/24/2021 W	11:40t		16:08s	14:50t	15:32s	12:20r	
11/24/2021 W	16:19s					17:26t	16:21t
11/24/2021 W	17:44et	20:35r		19:03s		22:31s	21:07s
11/25/2021 Th	5:36mt	4:30t	6:54r		5:40r		
11/25/2021 Th	7:02r		11:32t	10:37r	10:35t		11:32r
11/25/2021 Th	11:40t	12:14s	16:09s	14:49t	15:30s	12:17r	16:18t
11/25/2021 Th	16:19s					17:22t	
11/25/2021 Th	17:44et	21:41r		19:02s		22:28s	21:03s
11/26/2021 F	5:37mt	5:18t	6:59r		5:40r		
11/26/2021 F	7:03r		11:35t	10:35r	10:34t		11:29r
11/26/2021 F	11:41t	12:43s	16:10s	14:48t	15:28s	12:13r	16:14t
11/26/2021 F	16:18s					17:19t	
11/26/2021 F	17:43et	22:49r		19:02s		22:25s	20:59s
11/27/2021 Sat	5:38mt	5:28LQ			5:40r		
11/27/2021 Sat	7:04r	6:05t	7:03r	10:33r	10:33t		11:25r
11/27/2021 Sat	11:41t	13:08s	11:37t	14:47t	15:26s	12:09r	
11/27/2021 Sat	16:18s		16:10s			17:15t	16:10t
11/27/2021 Sat	17:43et	23:58r		19:02s		22:21s	20:56s
11/28/2021 Sun	5:40mt	6:51t			5:39r		
11/28/2021 Sun	7:05r		7:08r	10:31r	10:32t		11:21r
11/28/2021 Sun	11:41t	13:31s	11:40t	14:46t	15:24s	12:06r	16:07t
11/28/2021 Sun	16:17s		16:11s			17:12t	
11/28/2021 Sun	17:43et			19:02s		22:18s	20:52s
11/29/2021 M	5:41mt	1:09r			5:39r		
11/29/2021 M	7:06r	7:38t	7:12r	10:29r	10:30t		11:18r
11/29/2021 M	11:42t	13:54s	11:42t	14:45t	15:22s	12:02r	16:03t
11/29/2021 M	16:17s		16:12s			17:08t	
11/29/2021 M	17:42et			19:01s		22:15s	20:49s
11/30/2021 Tu	5:42mt	2:22r			5:39r		
11/30/2021 Tu	7:07r	8:25t	7:17r	10:27r	10:29t		11:14r
11/30/2021 Tu	11:42t	14:16s	11:45t	14:44t	15:19s	11:58r	16:00t
11/30/2021 Tu	16:16s		16:13s			17:05t	
11/30/2021 Tu	17:42et			19:01s		22:12s	20:45s
12/01/2021 W	5:42mt	3:38r			5:38r		
12/01/2021 W	7:09r	9:16t	7:21r	10:24r	10:28t		11:10r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/01/2021 W	11:42t	14:41s	11:48t	14:42t	15:18s	11:55r	15:56t
12/01/2021 W	16:16s		16:14s			17:02t	
12/01/2021 W	17:42et			19:00s		22:08s	20:42s
12/02/2021 Th	5:43mt	4:58r			5:38r		
12/02/2021 Th	7:10r	10:10t	7:25r	10:22r	10:27t		11:06r
12/02/2021 Th	11:43t	15:11s	11:51t	14:41t	15:16s	11:51r	15:52t
12/02/2021 Th	16:16s		16:16s			16:58t	
12/02/2021 Th	17:42et			19:00s		22:05s	20:38s
12/03/2021 F	5:44mt	6:22r			5:38r		
12/03/2021 F	7:11r	11:09t	7:30r	10:19r	10:26t		11:03r
12/03/2021 F	11:43t	15:48s	11:54t	14:39t	15:14s	11:48r	15:49t
12/03/2021 F	16:15s		16:17s			16:55t	
12/03/2021 F	17:42et			18:59s		22:02s	20:35s
12/04/2021 Sat	5:45mt	0:43NM			5:37r		
12/04/2021 Sat	7:12r	7:45r	7:34r	10:16r	10:25t		10:59r
12/04/2021 Sat	11:44t	12:12t	11:56t	14:37t	15:12s	11:44r	15:45t
12/04/2021 Sat	16:15s	16:35s	16:18s			16:51t	
12/04/2021 Sat	17:42et			18:58s		21:59s	20:31s
12/05/2021 Sun	5:46mt				5:37r		
12/05/2021 Sun	7:13r	9:02r	7:38r	10:13r	10:24t	11:40r	10:55r
12/05/2021 Sun	11:44t	13:19t	11:59t	14:35t	15:10s		15:42t
12/05/2021 Sun	16:15s	17:34s	16:20s			16:48t	
12/05/2021 Sun	17:42et			18:57s		21:56s	20:28s
12/06/2021 M	5:47mt				5:37r		
12/06/2021 M	7:14r	10:07r	7:42r	10:10r	10:22t	11:37r	10:52r
12/06/2021 M	11:44t	14:24t	12:02t	14:33t	15:08s		15:38t
12/06/2021 M	16:15s		16:22s			16:45t	
12/06/2021 M	17:41et	18:44s		18:56s		21:52s	20:24s
12/07/2021 Tu	5:48mt				5:37r		
12/07/2021 Tu	7:15r	10:58r	7:46r	10:07r	10:21t	11:33r	10:48r
12/07/2021 Tu	11:45t	15:26t	12:05t	14:31t	15:06s		15:34t
12/07/2021 Tu	16:15s		16:24s			16:41t	
12/07/2021 Tu	17:41et	20:00s		18:55s		21:49s	20:21s
12/08/2021 W	5:49mt				5:36r		
12/08/2021 W	7:16r	11:37r	7:50r	10:04r	10:20t	11:30r	10:44r
12/08/2021 W	11:45t		12:08t	14:28t	15:04s		15:31t
12/08/2021 W	16:15s	16:22t	16:26s			16:38t	
12/08/2021 W	17:42et	21:17s		18:54s		21:46s	20:17s
12/09/2021 Th	5:50mt				5:36r		
12/09/2021 Th	7:17r		7:54r	10:00r	10:19t	11:26r	10:41r
12/09/2021 Th	11:46t	12:07r	12:11t	14:26t	15:02s		15:27t
12/09/2021 Th	16:15s	17:14t	16:28s			16:35t	
12/09/2021 Th	17:42et	22:30s		18:52s		21:43s	20:14s
12/10/2021 F	5:50mt				5:36r		
12/10/2021 F	7:18r		7:57r	9:57r	10:18t	11:23r	10:37r

Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.

All dates and times are MST.

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/10/2021 F	11:46t	12:32r	12:14t	14:23t	15:00s		15:24t
12/10/2021 F	16:15s		16:30s			16:31t	
12/10/2021 F	17:42et	18:00t					
12/10/2021 F		18:36FQ		18:50s		21:40s	20:10s
12/10/2021 F		23:40s					
12/11/2021 Sat	5:51mt				5:35r		
12/11/2021 Sat	7:18r		8:01r	9:53r	10:17t	11:19r	10:33r
12/11/2021 Sat	11:47t	12:53r	12:17t	14:21t	14:59s		15:20t
12/11/2021 Sat	16:15s		16:33s			16:28t	
12/11/2021 Sat	17:42et	18:44t		18:49s		21:37s	20:07s
12/12/2021 Sun	5:52mt	0:46s			5:35r		
12/12/2021 Sun	7:19r		8:04r	9:49r	10:16t	11:15r	10:30r
12/12/2021 Sun	11:47t	13:13r	12:20t	14:18t	14:57s		15:17t
12/12/2021 Sun	16:15s		16:35s			16:25t	
12/12/2021 Sun	17:42et	19:26t		18:47s		21:34s	20:04s
12/13/2021 M	5:53mt	1:51s			5:35r		
12/13/2021 M	7:20r		8:08r	9:45r	10:15t	11:12r	10:26r
12/13/2021 M	11:48t	13:32r	12:23t	14:15t	14:55s		15:13t
12/13/2021 M	16:15s		16:38s			16:21t	
12/13/2021 M	17:42et	20:07t		18:45s		21:31s	20:00s
12/14/2021 Tu	5:53mt	2:55s			5:34r		
12/14/2021 Tu	7:21r		8:11r	9:41r	10:14t	11:08r	10:22r
12/14/2021 Tu	11:48t	13:52r	12:26t	14:11t	14:53s		15:09t
12/14/2021 Tu	16:15s		16:41s			16:18t	
12/14/2021 Tu	17:43et	20:49t		18:42s		21:28s	19:57s
12/15/2021 W	5:54mt	3:58s			5:34r		
12/15/2021 W	7:22r		8:14r	9:36r	10:13t	11:05r	10:19r
12/15/2021 W	11:49t	14:15r	12:29t	14:08t	14:52s	16:15t	15:06t
12/15/2021 W	16:15s		16:44s				
12/15/2021 W	17:43et	21:32t		18:40s		21:25s	19:53s
12/16/2021 Th	5:55mt	5:02s			5:34r		
12/16/2021 Th	7:22r		8:17r	9:32r	10:12t	11:01r	10:15r
12/16/2021 Th	11:49t	14:41r	12:32t	14:04t	14:50s	16:11t	15:02t
12/16/2021 Th	16:16s		16:47s				
12/16/2021 Th	17:43et	22:18t		18:37s		21:22s	19:50s
12/17/2021 F	5:55mt	6:05s			5:33r		
12/17/2021 F	7:23r		8:20r	9:27r	10:11t	10:58r	10:11r
12/17/2021 F	11:50t	15:12r	12:35t	14:01t	14:48s	16:08t	14:59t
12/17/2021 F	16:16s		16:50s				
12/17/2021 F	17:44et	23:05t		18:35s		21:19s	19:46s
12/18/2021 Sat	5:56mt	7:07s			5:33r		
12/18/2021 Sat	7:24r		8:23r	9:22r	10:10t	10:54r	10:08r
12/18/2021 Sat	11:50t	15:49r	12:38t	13:57t	14:46s	16:05t	14:55t
12/18/2021 Sat	16:16s		16:53s				
12/18/2021 Sat	17:44et	21:35FM		18:32s		21:15s	19:43s

**Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.
All dates and times are MST.**

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/18/2021 Sat		23:55t					
12/19/2021 Sun	5:57mt				5:33r		
12/19/2021 Sun	7:24r	8:04s	8:26r	9:17r	10:09t	10:51r	10:04r
12/19/2021 Sun	11:50t		12:41t	13:53t	14:45s	16:02t	14:52t
12/19/2021 Sun	16:17s	16:35r	16:57s				
12/19/2021 Sun	17:44et			18:29s		21:12s	19:40s
12/20/2021 M	5:57mt	0:45t			5:32r		
12/20/2021 M	7:25r	8:55s	8:28r	9:12r	10:08t	10:47r	10:00r
12/20/2021 M	11:51t		12:44t	13:48t	14:43s	15:58t	14:48t
12/20/2021 M	16:17s	17:28r	17:00s				
12/20/2021 M	17:45et			18:25s		21:09s	19:36s
12/21/2021 Tu	5:58mt	1:36t			5:32r		
12/21/2021 Tu	7:25r		8:30r				
12/21/2021 Tu	8:59DS	9:39s		9:06r	10:07t	10:44r	9:57r
12/21/2021 Tu	11:51t		12:47t	13:44t	14:42s	15:55t	14:45t
12/21/2021 Tu	16:18s		17:04s				
12/21/2021 Tu	17:45et	18:28r		18:22s		21:06s	19:33s
12/22/2021 W	5:58mt	2:26t			5:32r		
12/22/2021 W	7:26r	10:16s	8:32r	9:01r	10:06t	10:40r	9:53r
12/22/2021 W	11:52t		12:50t	13:39t	14:40s	15:52t	14:41t
12/22/2021 W	16:18s		17:08s				
12/22/2021 W	17:46et	19:32r		18:18s		21:03s	19:29s
12/23/2021 Th	5:59mt	3:15t			5:31r		
12/23/2021 Th	7:26r	10:46s	8:34r	8:55r	10:05t	10:37r	9:49r
12/23/2021 Th	11:52t		12:53t	13:34t	14:38s	15:48t	14:38t
12/23/2021 Th	16:19s		17:11s				
12/23/2021 Th	17:46et	20:39r		18:14s		21:01s	19:26s
12/24/2021 F	5:59mt	4:02t			5:31r		
12/24/2021 F	7:27r	11:12s	8:36r	8:49r	10:04t	10:33r	9:46r
12/24/2021 F	11:53t		12:56t	13:30t	14:37s	15:45t	14:34t
12/24/2021 F	16:19s		17:15s				
12/24/2021 F	17:47et	21:46r		18:10s		20:58s	19:23s
12/25/2021 Sat	5:59mt	4:47t			5:31r		
12/25/2021 Sat	7:27r	11:35s	8:38r	8:43r	10:03t	10:30r	9:42r
12/25/2021 Sat	11:53t		12:58t	13:24t	14:35s	15:42t	14:31t
12/25/2021 Sat	16:20s		17:19s				
12/25/2021 Sat	17:48et	22:54r		18:06s		20:55s	19:19s
12/26/2021 Sun	6:00mt	5:32t			5:30r		
12/26/2021 Sun	7:27r		8:39r	8:37r	10:02t	10:26r	9:38r
12/26/2021 Sun	11:54t	11:57s	13:01t	13:19t	14:34s	15:39t	14:27t
12/26/2021 Sun	16:21s		17:23s				
12/26/2021 Sun	17:48et	19:24LQ		18:01s		20:52s	19:16s
12/27/2021 M	6:00mt	0:04r			5:30r		
12/27/2021 M	7:27r	6:17t	8:41r	8:31r	10:01t	10:23r	9:35r
12/27/2021 M	11:54t	12:18s	13:04t	13:14t	14:32s	15:36t	14:24t

**Times of rise, transit, set, morning and evening twilight at HVO plus phases of the Moon and the seasons.
All dates and times are MST.**

Date	Sun	Moon	Mercury	Venus	Mars	Jupiter	Saturn
12/27/2021 M	16:22s		17:27s				
12/27/2021 M	17:49et			17:57s		20:49s	19:12s
12/28/2021 Tu	6:00mt	1:16r			5:30r		
12/28/2021 Tu	7:28r	7:04t	8:42r	8:24r	10:00t	10:19r	9:31r
12/28/2021 Tu	11:55t	12:41s	13:06t	13:08t	14:31s	15:32t	14:20t
12/28/2021 Tu	16:22s		17:32s				
12/28/2021 Tu	17:50et			17:52s		20:46s	19:09s
12/29/2021 W	6:01mt	2:31r			5:29r		
12/29/2021 W	7:28r	7:54t	8:42r	8:18r	9:59t	10:16r	9:27r
12/29/2021 W	11:55t	13:07s	13:09t	13:02t	14:29s	15:29t	14:17t
12/29/2021 W	16:23s		17:36s	17:47s			
12/29/2021 W	17:50et					20:43s	19:06s
12/30/2021 Th	6:01mt	3:51r			5:29r		
12/30/2021 Th	7:28r	8:49t	8:43r	8:11r	9:58t	10:12r	9:24r
12/30/2021 Th	11:56t	13:39s	13:11t	12:56t	14:28s	15:26t	14:13t
12/30/2021 Th	16:24s		17:40s	17:42s			
12/30/2021 Th	17:51et					20:40s	19:02s
12/31/2021 F	6:01mt	5:12r			5:28r		
12/31/2021 F	7:28r	9:49t	8:43r	8:04r	9:58t	10:09r	9:20r
12/31/2021 F	11:56t	14:19s	13:13t	12:50t	14:27s	15:23t	14:10t
12/31/2021 F	16:25s		17:44s	17:37s			
12/31/2021 F	17:52et					20:37s	18:59s
01/01/2022 Sat	6:01mt	6:32r			5:28r		
01/01/2022 Sat	7:28r	10:53t			9:57t		
01/01/2022 Sat	11:57t	15:11s			14:25s		
01/01/2022 Sat	16:26s						
01/01/2022 Sat	17:53et						

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