

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End				Length	Noon	Noon	9 PM
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight						End Civil Twilight	Nautical Twilight	15- deg. Twilight	Astro- nomical Twilight				
01/01/2020	W	5:43:24	6:00:49	6:18:30	6:54:57	7:27:51		11:56:20		16:24:58	16:57:53	17:34:20	17:52:01	18:09:26	8:57:07	-3.456	-22.996	40
01/02/2020	Th	5:43:33	6:00:57	6:18:38	6:55:02	7:27:54		11:56:48		16:25:53	16:58:45	17:35:10	17:52:50	18:10:14	8:57:58	-3.926	-22.910	50
01/03/2020	F	5:43:40	6:01:04	6:18:43	6:55:06	7:27:55		11:57:16		16:26:48	16:59:38	17:36:01	17:53:40	18:11:04	8:58:54	-4.390	-22.815	59
01/04/2020	Sat	5:43:45	6:01:08	6:18:46	6:55:07	7:27:53		11:57:44		16:27:46	17:00:33	17:36:53	17:54:32	18:11:55	8:59:53	-4.847	-22.714	69
01/05/2020	Sun	5:43:48	6:01:10	6:18:47	6:55:05	7:27:48		11:58:11		16:28:45	17:01:29	17:37:47	17:55:25	18:12:47	9:00:57	-5.297	-22.605	77
01/06/2020	M	5:43:49	6:01:10	6:18:46	6:55:01	7:27:41		11:58:37		16:29:46	17:02:27	17:38:42	17:56:19	18:13:40	9:02:05	-5.739	-22.488	85
01/07/2020	Tu	5:43:47	6:01:07	6:18:43	6:54:55	7:27:32		11:59:03		16:30:49	17:03:26	17:39:38	17:57:14	18:14:34	9:03:17	-6.174	-22.364	92
01/08/2020	W	5:43:44	6:01:03	6:18:37	6:54:46	7:27:20		11:59:29		16:31:53	17:04:26	17:40:36	17:58:11	18:15:30	9:04:33	-6.600	-22.233	97
01/09/2020	Th	5:43:38	6:00:56	6:18:29	6:54:35	7:27:05		11:59:54		16:32:58	17:05:28	17:41:35	17:59:08	18:16:27	9:05:53	-7.017	-22.094	99
01/10/2020	F	5:43:30	6:00:47	6:18:19	6:54:22	7:26:48		12:00:18		16:34:05	17:06:31	17:42:35	18:00:07	18:17:24	9:07:17	-7.425	-21.948	100
01/11/2020	Sat	5:43:20	6:00:36	6:18:07	6:54:07	7:26:28		12:00:42		16:35:13	17:07:35	17:43:36	18:01:07	18:18:23	9:08:45	-7.824	-21.795	98
01/12/2020	Sun	5:43:08	6:00:23	6:17:52	6:53:49	7:26:06		12:01:06		16:36:23	17:08:41	17:44:38	18:02:08	18:19:23	9:10:17	-8.213	-21.635	93
01/13/2020	M	5:42:53	6:00:07	6:17:35	6:53:28	7:25:42		12:01:28		16:37:34	17:09:47	17:45:41	18:03:09	18:20:24	9:11:52	-8.592	-21.468	85
01/14/2020	Tu	5:42:37	5:59:50	6:17:16	6:53:06	7:25:15		12:01:50		16:38:46	17:10:55	17:46:45	18:04:12	18:21:25	9:13:31	-8.960	-21.294	76
01/15/2020	W	5:42:18	5:59:30	6:16:55	6:52:41	7:24:45		12:02:12		16:39:59	17:12:04	17:47:50	18:05:16	18:22:28	9:15:13	-9.318	-21.114	66
01/16/2020	Th	5:41:57	5:59:08	6:16:32	6:52:14	7:24:14		12:02:33		16:41:13	17:13:13	17:48:56	18:06:20	18:23:31	9:16:59	-9.665	-20.926	54
01/17/2020	F	5:41:34	5:58:44	6:16:06	6:51:44	7:23:40		12:02:53		16:42:28	17:14:24	17:50:02	18:07:25	18:24:35	9:18:48	-10.002	-20.732	43
01/18/2020	Sat	5:41:09	5:58:18	6:15:39	6:51:13	7:23:03		12:03:12		16:43:44	17:15:35	17:51:10	18:08:31	18:25:40	9:20:41	-10.326	-20.531	32
01/19/2020	Sun	5:40:42	5:57:49	6:15:09	6:50:39	7:22:25		12:03:31		16:45:01	17:16:47	17:52:18	18:09:38	18:26:46	9:22:36	-10.640	-20.324	23
01/20/2020	M	5:40:13	5:57:19	6:14:37	6:50:03	7:21:44		12:03:49		16:46:18	17:18:00	17:53:27	18:10:45	18:27:52	9:24:35	-10.941	-20.110	14
01/21/2020	Tu	5:39:41	5:56:46	6:14:03	6:49:25	7:21:01		12:04:07		16:47:37	17:19:13	17:54:36	18:11:54	18:28:59	9:26:36	-11.230	-19.890	8
01/22/2020	W	5:39:08	5:56:11	6:13:26	6:48:44	7:20:15		12:04:23		16:48:56	17:20:28	17:55:47	18:13:02	18:30:06	9:28:40	-11.506	-19.664	3
01/23/2020	Th	5:38:32	5:55:34	6:12:48	6:48:02	7:19:28		12:04:39		16:50:16	17:21:42	17:56:57	18:14:12	18:31:14	9:30:48	-11.770	-19.432	1
01/24/2020	F	5:37:54	5:54:55	6:12:07	6:47:17	7:18:38		12:04:54		16:51:36	17:22:58	17:58:09	18:15:21	18:32:23	9:32:58	-12.021	-19.194	0
01/25/2020	Sat	5:37:14	5:54:14	6:11:25	6:46:31	7:17:47		12:05:08		16:52:57	17:24:14	17:59:20	18:16:32	18:33:32	9:35:10	-12.259	-18.950	2
01/26/2020	Sun	5:36:32	5:53:31	6:10:40	6:45:42	7:16:53		12:05:22		16:54:18	17:25:30	18:00:33	18:17:42	18:34:42	9:37:25	-12.483	-18.700	5
01/27/2020	M	5:35:48	5:52:46	6:09:54	6:44:51	7:15:57		12:05:35		16:55:40	17:26:47	18:01:45	18:18:54	18:35:52	9:39:43	-12.694	-18.444	10
01/28/2020	Tu	5:35:02	5:51:59	6:09:05	6:43:58	7:14:59		12:05:46		16:57:02	17:28:04	18:02:58	18:20:05	18:37:02	9:42:03	-12.891	-18.183	16
01/29/2020	W	5:34:14	5:51:10	6:08:14	6:43:04	7:14:00		12:05:57		16:58:24	17:29:21	18:04:12	18:21:17	18:38:13	9:44:25	-13.075	-17.917	24
01/30/2020	Th	5:33:24	5:50:18	6:07:22	6:42:07	7:12:58		12:06:08		16:59:47	17:30:39	18:05:25	18:22:29	18:39:24	9:46:49	-13.245	-17.645	32
01/31/2020	F	5:32:32	5:49:25	6:06:27	6:41:08	7:11:54		12:06:17		17:01:10	17:31:57	18:06:39	18:23:42	18:40:36	9:49:16	-13.400	-17.368	41
02/01/2020	Sat	5:31:38	5:48:30	6:05:31	6:40:08	7:10:49		12:06:25		17:02:33	17:33:15	18:07:53	18:24:55	18:41:48	9:51:44	-13.542	-17.085	51
02/02/2020	Sun	5:30:42	5:47:33	6:04:32	6:39:05	7:09:41		12:06:33		17:03:56	17:34:33	18:09:08	18:26:08	18:43:00	9:54:15	-13.670	-16.798	61
02/03/2020	M	5:29:44	5:46:34	6:03:32	6:38:01	7:08:32		12:06:40		17:05:19	17:35:51	18:10:22	18:27:21	18:44:12	9:56:47	-13.784	-16.506	70
02/04/2020	Tu	5:28:44	5:45:33	6:02:30	6:36:55	7:07:22		12:06:46		17:06:43	17:37:10	18:11:37	18:28:35	18:45:25	9:59:21	-13.884	-16.209	79
02/05/2020	W	5:27:42	5:44:31	6:01:26	6:35:48	7:06:09		12:06:51		17:08:06	17:38:29	18:12:52	18:29:48	18:46:38	10:01:57	-13.971	-15.908	87
02/06/2020	Th	5:26:39	5:43:26	6:00:20	6:34:38	7:04:55		12:06:56		17:09:29	17:39:47	18:14:07	18:31:02	18:47:51	10:04:34	-14.044	-15.602	94
02/07/2020	F	5:25:33	5:42:20	5:59:12	6:33:27	7:03:39		12:06:59		17:10:53	17:41:06	18:15:22	18:32:16	18:49:04	10:07:13	-14.103	-15.291	98
02/08/2020	Sat	5:24:26	5:41:12	5:58:03	6:32:14	7:02:22		12:07:02		17:12:16	17:42:25	18:16:38	18:33:30	18:50:17	10:09:54	-14.148	-14.976	100
02/09/2020	Sun	5:23:17	5:40:02	5:56:52	6:31:00	7:01:03		12:07:04		17:13:39	17:43:44	18:17:53	18:34:45	18:51:31	10:12:36	-14.181	-14.657	99

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin				Sunrise	Sun East	Local Noon	Sun West	Sunset	End					Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	Begin 15-deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight						End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight					
02/10/2020	M	5:22:06	5:38:50	5:55:40	6:29:44	6:59:43		12:07:05	17:15:02	17:45:02	18:19:09	18:35:59	18:52:45	10:15:19	-14.201	-14.334	95		
02/11/2020	Tu	5:20:53	5:37:37	5:54:26	6:28:27	6:58:21		12:07:05	17:16:25	17:46:21	18:20:24	18:37:14	18:53:59	10:18:04	-14.207	-14.007	88		
02/12/2020	W	5:19:39	5:36:22	5:53:10	6:27:08	6:56:58		12:07:05	17:17:48	17:47:40	18:21:40	18:38:29	18:55:13	10:20:50	-14.202	-13.676	80		
02/13/2020	Th	5:18:23	5:35:06	5:51:53	6:25:47	6:55:33		12:07:04	17:19:11	17:48:58	18:22:55	18:39:43	18:56:28	10:23:37	-14.184	-13.342	69		
02/14/2020	F	5:17:05	5:33:48	5:50:34	6:24:26	6:54:08		12:07:02	17:20:33	17:50:17	18:24:11	18:40:58	18:57:43	10:26:26	-14.153	-13.003	59		
02/15/2020	Sat	5:15:46	5:32:28	5:49:13	6:23:02	6:52:41		12:07:00	17:21:56	17:51:36	18:25:27	18:42:14	18:58:57	10:29:15	-14.111	-12.661	48		
02/16/2020	Sun	5:14:25	5:31:07	5:47:52	6:21:38	6:51:12		12:06:56	17:23:18	17:52:54	18:26:43	18:43:29	19:00:12	10:32:06	-14.058	-12.316	37		
02/17/2020	M	5:13:03	5:29:45	5:46:28	6:20:12	6:49:43		12:06:52	17:24:40	17:54:12	18:27:59	18:44:44	19:01:28	10:34:57	-13.992	-11.967	27		
02/18/2020	Tu	5:11:39	5:28:20	5:45:04	6:18:45	6:48:12		12:06:48	17:26:02	17:55:31	18:29:15	18:46:00	19:02:43	10:37:50	-13.916	-11.616	18		
02/19/2020	W	5:10:13	5:26:55	5:43:38	6:17:17	6:46:40		12:06:43	17:27:23	17:56:49	18:30:31	18:47:15	19:03:59	10:40:43	-13.828	-11.261	11		
02/20/2020	Th	5:08:46	5:25:28	5:42:10	6:15:47	6:45:08		12:06:37	17:28:45	17:58:07	18:31:47	18:48:31	19:05:14	10:43:37	-13.729	-10.903	6		
02/21/2020	F	5:07:18	5:24:00	5:40:42	6:14:17	6:43:34		12:06:30	17:30:06	17:59:25	18:33:03	18:49:47	19:06:30	10:46:32	-13.620	-10.542	2		
02/22/2020	Sat	5:05:48	5:22:30	5:39:12	6:12:45	6:41:59		12:06:23	17:31:27	18:00:43	18:34:19	18:51:03	19:07:46	10:49:28	-13.499	-10.179	0		
02/23/2020	Sun	5:04:17	5:20:59	5:37:40	6:11:12	6:40:23		12:06:15	17:32:47	18:02:00	18:35:35	18:52:18	19:09:03	10:52:24	-13.369	-9.813	0		
02/24/2020	M	5:02:44	5:19:27	5:36:08	6:09:38	6:38:46		12:06:07	17:34:08	18:03:18	18:36:51	18:53:34	19:10:19	10:55:22	-13.228	-9.444	2		
02/25/2020	Tu	5:01:10	5:17:53	5:34:34	6:08:03	6:37:08		12:05:58	17:35:28	18:04:35	18:38:07	18:54:51	19:11:36	10:58:19	-13.077	-9.074	6		
02/26/2020	W	4:59:35	5:16:18	5:32:59	6:06:27	6:35:30		12:05:48	17:36:47	18:05:52	18:39:23	18:56:07	19:12:53	11:01:18	-12.917	-8.701	11		
02/27/2020	Th	4:57:58	5:14:42	5:31:24	6:04:50	6:33:50		12:05:38	17:38:07	18:07:10	18:40:39	18:57:23	19:14:10	11:04:17	-12.747	-8.325	18		
02/28/2020	F	4:56:20	5:13:05	5:29:46	6:03:12	6:32:10		12:05:27	17:39:26	18:08:26	18:41:55	18:58:39	19:15:27	11:07:16	-12.568	-7.948	25		
02/29/2020	Sat	4:54:40	5:11:26	5:28:08	6:01:33	6:30:29		12:05:16	17:40:45	18:09:43	18:43:11	18:59:56	19:16:44	11:10:16	-12.380	-7.569	34		
03/01/2020	Sun	4:53:00	5:09:46	5:26:29	5:59:53	6:28:47		12:05:04	17:42:03	18:11:00	18:44:27	19:01:12	19:18:02	11:13:16	-12.183	-7.188	44		
03/02/2020	M	4:51:18	5:08:06	5:24:49	5:58:12	6:27:04		12:04:52	17:43:21	18:12:16	18:45:44	19:02:29	19:19:20	11:16:17	-11.977	-6.805	54		
03/03/2020	Tu	4:49:35	5:06:24	5:23:07	5:56:31	6:25:21		12:04:39	17:44:39	18:13:32	18:47:00	19:03:46	19:20:38	11:19:18	-11.764	-6.421	64		
03/04/2020	W	4:47:51	5:04:41	5:21:25	5:54:48	6:23:37		12:04:25	17:45:57	18:14:48	18:48:16	19:05:03	19:21:56	11:22:19	-11.543	-6.035	74		
03/05/2020	Th	4:46:05	5:02:57	5:19:42	5:53:05	6:21:53		12:04:12	17:47:14	18:16:04	18:49:32	19:06:20	19:23:14	11:25:21	-11.314	-5.648	83		
03/06/2020	F	4:44:19	5:01:12	5:17:58	5:51:22	6:20:08		12:03:58	17:48:31	18:17:20	18:50:48	19:07:37	19:24:33	11:28:23	-11.078	-5.260	90		
03/07/2020	Sat	4:42:31	4:59:26	5:16:13	5:49:37	6:18:22		12:03:43	17:49:48	18:18:36	18:52:05	19:08:55	19:25:52	11:31:25	-10.835	-4.871	96		
03/08/2020	Sun*	5:40:43	5:57:39	6:14:27	6:47:52	7:16:36		13:03:28	18:51:04	19:19:51	19:53:21	20:10:12	20:27:12	11:34:28	-10.586	-4.480	99		
03/09/2020	M*	5:38:53	5:55:51	6:12:41	6:46:06	7:14:50		13:03:13	18:52:20	19:21:07	19:54:37	20:11:30	20:28:31	11:37:30	-10.331	-4.089	100		
03/10/2020	Tu*	5:37:02	5:54:02	6:10:53	6:44:20	7:13:03		13:02:57	18:53:36	19:22:22	19:55:54	20:12:48	20:29:51	11:40:33	-10.071	-3.697	97		
03/11/2020	W*	5:35:11	5:52:13	6:09:05	6:42:33	7:11:15		13:02:41	18:54:52	19:23:38	19:57:11	20:14:06	20:31:12	11:43:36	-9.805	-3.304	91		
03/12/2020	Th*	5:33:18	5:50:22	6:07:16	6:40:46	7:09:28		13:02:25	18:56:07	19:24:53	19:58:27	20:15:24	20:32:32	11:46:40	-9.535	-2.910	84		
03/13/2020	F*	5:31:25	5:48:31	6:05:27	6:38:58	7:07:40		13:02:09	18:57:23	19:26:08	19:59:44	20:16:43	20:33:53	11:49:43	-9.260	-2.516	74		
03/14/2020	Sat*	5:29:31	5:46:39	6:03:37	6:37:10	7:05:51		13:01:52	18:58:38	19:27:23	20:01:02	20:18:02	20:35:15	11:52:46	-8.981	-2.121	64		
03/15/2020	Sun*	5:27:35	5:44:47	6:01:46	6:35:21	7:04:03		13:01:35	18:59:53	19:28:38	20:02:19	20:19:22	20:36:37	11:55:50	-8.699	-1.727	53		
03/16/2020	M*	5:25:39	5:42:53	5:59:54	6:33:32	7:02:14		13:01:18	19:01:07	19:29:54	20:03:37	20:20:41	20:37:59	11:58:53	-8.414	-1.331	43		
03/17/2020	Tu*	5:23:42	5:40:59	5:58:02	6:31:42	7:00:25		13:01:00	19:02:22	19:31:09	20:04:54	20:22:01	20:39:22	12:01:57	-8.125	-0.936	33		
03/18/2020	W*	5:21:45	5:39:05	5:56:10	6:29:52	6:58:36		13:00:43	19:03:36	19:32:24	20:06:12	20:23:22	20:40:46	12:05:01	-7.835	-0.541	24		
03/19/2020	Th*	5:19:46	5:37:09	5:54:17	6:28:02	6:56:46		13:00:25	19:04:51	19:33:39	20:07:31	20:24:42	20:42:10	12:08:04	-7.541	-0.145	16		
03/20/2020	F*	5:17:47	5:35:13	5:52:24	6:26:12	6:54:57	7:02:10	13:00:08	18:56:41	19:06:05	19:34:54	20:08:49	20:26:03	20:43:34	12:11:08	-7.246	0.250	10	

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin Astro- nomical Twilight	Begin 15- deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15- deg. Twilight	End Astro- nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun decli- nation (deg.)	9 PM Lunar Illum. (pct.)
03/21/2020	Sat*	5:15:47	5:33:17	5:50:30	6:24:21	6:53:08	7:03:30	12:59:50	18:54:46	19:07:19	19:36:10	20:10:08	20:27:25	20:44:59	12:14:12	-6.950	0.645	5
03/22/2020	Sun*	5:13:47	5:31:20	5:48:35	6:22:30	6:51:18	7:04:50	12:59:32	18:52:50	19:08:33	19:37:25	20:11:27	20:28:46	20:46:24	12:17:15	-6.651	1.039	2
03/23/2020	M*	5:11:45	5:29:22	5:46:41	6:20:39	6:49:28	7:06:09	12:59:14	18:50:55	19:09:47	19:38:40	20:12:46	20:30:09	20:47:50	12:20:18	-6.352	1.433	0
03/24/2020	Tu*	5:09:43	5:27:24	5:44:45	6:18:48	6:47:39	7:07:29	12:58:56	18:48:59	19:11:01	19:39:56	20:14:06	20:31:31	20:49:17	12:23:22	-6.052	1.827	1
03/25/2020	W*	5:07:41	5:25:25	5:42:50	6:16:57	6:45:49	7:08:48	12:58:38	18:47:04	19:12:14	19:41:11	20:15:25	20:32:54	20:50:44	12:26:25	-5.751	2.220	3
03/26/2020	Th*	5:05:38	5:23:26	5:40:54	6:15:05	6:44:00	7:10:08	12:58:20	18:45:09	19:13:28	19:42:27	20:16:45	20:34:18	20:52:12	12:29:28	-5.450	2.612	7
03/27/2020	F*	5:03:34	5:21:27	5:38:58	6:13:14	6:42:10	7:11:27	12:58:02	18:43:14	19:14:41	19:43:43	20:18:06	20:35:42	20:53:40	12:32:31	-5.150	3.003	12
03/28/2020	Sat*	5:01:30	5:19:27	5:37:02	6:11:22	6:40:21	7:12:46	12:57:44	18:41:19	19:15:54	19:44:58	20:19:26	20:37:06	20:55:09	12:35:33	-4.849	3.393	19
03/29/2020	Sun*	4:59:25	5:17:27	5:35:05	6:09:31	6:38:32	7:14:05	12:57:26	18:39:25	19:17:08	19:46:14	20:20:47	20:38:31	20:56:38	12:38:36	-4.549	3.782	27
03/30/2020	M*	4:57:19	5:15:26	5:33:08	6:07:39	6:36:43	7:15:24	12:57:08	18:37:30	19:18:21	19:47:30	20:22:09	20:39:56	20:58:09	12:41:38	-4.251	4.170	37
03/31/2020	Tu*	4:55:14	5:13:26	5:31:12	6:05:48	6:34:54	7:16:43	12:56:50	18:35:36	19:19:34	19:48:46	20:23:30	20:41:21	20:59:39	12:44:40	-3.953	4.556	47
04/01/2020	W*	4:53:07	5:11:24	5:29:14	6:03:56	6:33:06	7:18:02	12:56:32	18:33:43	19:20:47	19:50:02	20:24:52	20:42:47	21:01:11	12:47:41	-3.657	4.941	57
04/02/2020	Th*	4:51:01	5:09:23	5:27:17	6:02:05	6:31:18	7:19:20	12:56:15	18:31:49	19:22:00	19:51:18	20:26:14	20:44:14	21:02:43	12:50:42	-3.362	5.325	68
04/03/2020	F*	4:48:53	5:07:21	5:25:20	6:00:14	6:29:30	7:20:39	12:55:57	18:29:56	19:23:13	19:52:34	20:27:37	20:45:41	21:04:15	12:53:43	-3.070	5.707	78
04/04/2020	Sat*	4:46:46	5:05:20	5:23:23	5:58:23	6:27:42	7:21:57	12:55:40	18:28:04	19:24:26	19:53:51	20:29:00	20:47:08	21:05:49	12:56:44	-2.781	6.088	87
04/05/2020	Sun*	4:44:38	5:03:18	5:21:25	5:56:32	6:25:55	7:23:15	12:55:23	18:26:12	19:25:39	19:55:07	20:30:23	20:48:36	21:07:23	12:59:44	-2.494	6.466	94
04/06/2020	M*	4:42:30	5:01:16	5:19:28	5:54:42	6:24:08	7:24:34	12:55:06	18:24:20	19:26:51	19:56:24	20:31:47	20:50:05	21:08:58	13:02:43	-2.210	6.843	98
04/07/2020	Tu*	4:40:22	4:59:13	5:17:31	5:52:52	6:22:22	7:25:52	12:54:49	18:22:29	19:28:04	19:57:41	20:33:11	20:51:34	21:10:33	13:05:42	-1.930	7.217	100
04/08/2020	W*	4:38:13	4:57:11	5:15:34	5:51:02	6:20:36	7:27:10	12:54:32	18:20:39	19:29:17	19:58:57	20:34:35	20:53:04	21:12:09	13:08:41	-1.654	7.590	98
04/09/2020	Th*	4:36:04	4:55:09	5:13:37	5:49:12	6:18:51	7:28:29	12:54:16	18:18:49	19:30:30	20:00:14	20:36:00	20:54:34	21:13:46	13:11:39	-1.382	7.961	94
04/10/2020	F*	4:33:55	4:53:07	5:11:40	5:47:23	6:17:06	7:29:47	12:54:00	18:16:59	19:31:43	20:01:32	20:37:25	20:56:04	21:15:24	13:14:37	-1.115	8.329	87
04/11/2020	Sat*	4:31:45	4:51:04	5:09:43	5:45:34	6:15:22	7:31:05	12:53:44	18:15:11	19:32:55	20:02:49	20:38:50	20:57:36	21:17:02	13:17:34	-0.852	8.695	79
04/12/2020	Easter*	4:29:36	4:49:02	5:07:47	5:43:46	6:13:38	7:32:23	12:53:29	18:13:23	19:34:08	20:04:07	20:40:16	20:59:07	21:18:42	13:20:30	-0.595	9.059	69
04/13/2020	M*	4:27:26	4:47:00	5:05:50	5:41:58	6:11:55	7:33:41	12:53:14	18:11:35	19:35:21	20:05:24	20:41:43	21:00:40	21:20:22	13:23:26	-0.344	9.420	59
04/14/2020	Tu*	4:25:17	4:44:58	5:03:54	5:40:11	6:10:13	7:34:59	12:52:59	18:09:49	19:36:34	20:06:42	20:43:09	21:02:13	21:22:02	13:26:21	-0.099	9.778	48
04/15/2020	W*	4:23:07	4:42:56	5:01:59	5:38:24	6:08:31	7:36:18	12:52:45	18:08:03	19:37:47	20:08:00	20:44:36	21:03:46	21:23:44	13:29:16	0.140	10.134	39
04/16/2020	Th*	4:20:57	4:40:55	5:00:04	5:36:38	6:06:50	7:37:36	12:52:31	18:06:18	19:39:00	20:09:19	20:46:04	21:05:20	21:25:26	13:32:10	0.373	10.487	29
04/17/2020	F*	4:18:48	4:38:53	4:58:09	5:34:53	6:05:10	7:38:54	12:52:17	18:04:34	19:40:13	20:10:37	20:47:32	21:06:55	21:27:10	13:35:03	0.599	10.838	21
04/18/2020	Sat*	4:16:38	4:36:52	4:56:15	5:33:08	6:03:31	7:40:12	12:52:04	18:02:51	19:41:26	20:11:55	20:49:00	21:08:30	21:28:53	13:37:55	0.818	11.185	14
04/19/2020	Sun*	4:14:28	4:34:52	4:54:21	5:31:24	6:01:52	7:41:30	12:51:51	18:01:09	19:42:39	20:13:14	20:50:29	21:10:05	21:30:38	13:40:46	1.031	11.529	8
04/20/2020	M*	4:12:19	4:32:51	4:52:27	5:29:41	6:00:15	7:42:48	12:51:39	17:59:28	19:43:51	20:14:33	20:51:58	21:11:41	21:32:24	13:43:37	1.236	11.871	4
04/21/2020	Tu*	4:10:10	4:30:51	4:50:34	5:27:58	5:58:38	7:44:06	12:51:27	17:57:47	19:45:04	20:15:52	20:53:27	21:13:18	21:34:10	13:46:26	1.433	12.208	1
04/22/2020	W*	4:08:00	4:28:52	4:48:42	5:26:16	5:57:02	7:45:24	12:51:16	17:56:08	19:46:17	20:17:11	20:54:56	21:14:55	21:35:57	13:49:15	1.623	12.543	0
04/23/2020	Th*	4:05:51	4:26:52	4:46:51	5:24:35	5:55:27	7:46:41	12:51:05	17:54:30	19:47:30	20:18:30	20:56:26	21:16:33	21:37:44	13:52:03	1.806	12.874	1
04/24/2020	F*	4:03:43	4:24:54	4:45:00	5:22:55	5:53:54	7:47:59	12:50:54	17:52:53	19:48:43	20:19:49	20:57:56	21:18:11	21:39:32	13:54:49	1.980	13.202	4
04/25/2020	Sat*	4:01:34	4:22:56	4:43:09	5:21:16	5:52:21	7:49:16	12:50:44	17:51:17	19:49:55	20:21:08	20:59:27	21:19:49	21:41:21	13:57:35	2.147	13.526	8
04/26/2020	Sun*	3:59:26	4:20:58	4:41:20	5:19:38	5:50:49	7:50:34	12:50:35	17:49:42	19:51:08	20:22:27	21:00:57	21:21:27	21:43:11	14:00:19	2.305	13.846	15
04/27/2020	M*	3:57:18	4:19:01	4:39:31	5:18:00	5:49:18	7:51:51	12:50:26	17:48:08	19:52:20	20:23:46	21:02:28	21:23:07	21:45:01	14:03:02	2.456	14.162	23
04/28/2020	Tu*	3:55:11	4:17:05	4:37:43	5:16:24	5:47:49	7:53:08	12:50:17	17:46:36	19:53:32	20:25:05	21:03:59	21:24:46	21:46:52	14:05:43	2.598	14.475	32
04/29/2020	W*	3:53:04	4:15:10	4:35:56	5:14:49	5:46:21	7:54:24	12:50:09	17:45:04	19:54:44	20:26:24	21:05:30	21:26:25	21:48:43	14:08:24	2.731	14.784	42

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End	End 15-	End Astro-	Length	Noon	Noon	9 PM
		Astro-nomical	15-deg.	Nautical	Civil													
04/30/2020	Th*	3:50:58	4:13:15	4:34:10	5:13:15	5:44:53	7:55:41	12:50:02	17:43:34	19:55:56	20:27:43	21:07:01	21:28:05	21:50:35	14:11:03	2.856	15.088	53
05/01/2020	F*	3:48:52	4:11:21	4:32:25	5:11:42	5:43:28	7:56:57	12:49:55	17:42:06	19:57:08	20:29:01	21:08:32	21:29:45	21:52:27	14:13:40	2.973	15.388	64
05/02/2020	Sat*	3:46:46	4:09:28	4:30:41	5:10:10	5:42:03	7:58:13	12:49:48	17:40:39	19:58:19	20:30:20	21:10:03	21:31:25	21:54:19	14:16:16	3.081	15.684	75
05/03/2020	Sun*	3:44:42	4:07:36	4:28:58	5:08:40	5:40:40	7:59:28	12:49:42	17:39:13	19:59:31	20:31:38	21:11:34	21:33:06	21:56:12	14:18:51	3.180	15.976	84
05/04/2020	M*	3:42:38	4:05:44	4:27:16	5:07:11	5:39:18	8:00:44	12:49:37	17:37:48	20:00:41	20:32:56	21:13:05	21:34:46	21:58:06	14:21:24	3.270	16.263	92
05/05/2020	Tu*	3:40:35	4:03:54	4:25:35	5:05:43	5:37:57	8:01:58	12:49:32	17:36:26	20:01:52	20:34:14	21:14:36	21:36:26	21:59:59	14:23:55	3.351	16.546	97
05/06/2020	W*	3:38:32	4:02:05	4:23:56	5:04:16	5:36:38	8:03:13	12:49:28	17:35:04	20:03:02	20:35:32	21:16:06	21:38:07	22:01:53	14:26:24	3.422	16.824	100
05/07/2020	Th*	3:36:31	4:00:17	4:22:17	5:02:51	5:35:20	8:04:27	12:49:24	17:33:44	20:04:12	20:36:49	21:17:37	21:39:47	22:03:48	14:28:52	3.485	17.097	99
05/08/2020	F*	3:34:30	3:58:30	4:20:40	5:01:27	5:34:04	8:05:40	12:49:21	17:32:26	20:05:22	20:38:06	21:19:07	21:41:27	22:05:42	14:31:18	3.537	17.366	96
05/09/2020	Sat*	3:32:30	3:56:45	4:19:05	5:00:05	5:32:49	8:06:53	12:49:18	17:31:10	20:06:31	20:39:23	21:20:37	21:43:08	22:07:36	14:33:42	3.580	17.629	90
05/10/2020	Sun*	3:30:32	3:55:00	4:17:31	4:58:44	5:31:36	8:08:06	12:49:16	17:29:55	20:07:39	20:40:39	21:22:07	21:44:47	22:09:31	14:36:04	3.614	17.888	83
05/11/2020	M*	3:28:34	3:53:17	4:15:58	4:57:25	5:30:24	8:09:18	12:49:15	17:28:42	20:08:48	20:41:55	21:23:36	21:46:27	22:11:25	14:38:23	3.637	18.142	74
05/12/2020	Tu*	3:26:38	3:51:36	4:14:27	4:56:07	5:29:14	8:10:30	12:49:14	17:27:30	20:09:55	20:43:10	21:25:05	21:48:06	22:13:20	14:40:41	3.651	18.391	65
05/13/2020	W*	3:24:43	3:49:56	4:12:57	4:54:52	5:28:06	8:11:40	12:49:14	17:26:21	20:11:02	20:44:25	21:26:33	21:49:45	22:15:14	14:42:57	3.655	18.635	55
05/14/2020	Th*	3:22:49	3:48:18	4:11:29	4:53:37	5:26:59	8:12:51	12:49:14	17:25:13	20:12:09	20:45:39	21:28:01	21:51:24	22:17:08	14:45:10	3.649	18.873	45
05/15/2020	F*	3:20:57	3:46:41	4:10:03	4:52:25	5:25:55	8:14:00	12:49:15	17:24:07	20:13:15	20:46:53	21:29:29	21:53:02	22:19:02	14:47:21	3.634	19.107	35
05/16/2020	Sat*	3:19:06	3:45:06	4:08:39	4:51:14	5:24:51	8:15:09	12:49:16	17:23:03	20:14:21	20:48:06	21:30:55	21:54:39	22:20:55	14:49:29	3.609	19.334	27
05/17/2020	Sun*	3:17:17	3:43:33	4:07:16	4:50:06	5:23:50	8:16:17	12:49:18	17:22:01	20:15:25	20:49:18	21:32:21	21:56:16	22:22:48	14:51:35	3.574	19.557	19
05/18/2020	M*	3:15:29	3:42:01	4:05:56	4:48:59	5:22:51	8:17:24	12:49:21	17:21:01	20:16:29	20:50:29	21:33:46	21:57:52	22:24:40	14:53:39	3.530	19.774	12
05/19/2020	Tu*	3:13:44	3:40:32	4:04:37	4:47:54	5:21:53	8:18:31	12:49:24	17:20:02	20:17:33	20:51:40	21:35:11	21:59:27	22:26:31	14:55:39	3.477	19.985	6
05/20/2020	W*	3:12:00	3:39:04	4:03:20	4:46:51	5:20:58	8:19:36	12:49:28	17:19:06	20:18:35	20:52:50	21:36:34	22:01:01	22:28:22	14:57:37	3.414	20.190	3
05/21/2020	Th*	3:10:18	3:37:39	4:02:06	4:45:49	5:20:04	8:20:41	12:49:32	17:18:12	20:19:37	20:53:58	21:37:56	22:02:34	22:30:12	14:59:33	3.342	20.390	0
05/22/2020	F*	3:08:38	3:36:16	4:00:53	4:44:50	5:19:12	8:21:44	12:49:37	17:17:20	20:20:37	20:55:06	21:39:17	22:04:05	22:32:00	15:01:25	3.262	20.584	0
05/23/2020	Sat*	3:07:00	3:34:55	3:59:43	4:43:53	5:18:22	8:22:46	12:49:43	17:16:30	20:21:37	20:56:13	21:40:37	22:05:36	22:33:47	15:03:15	3.173	20.772	2
05/24/2020	Sun*	3:05:24	3:33:36	3:58:35	4:42:59	5:17:34	8:23:47	12:49:48	17:15:42	20:22:35	20:57:18	21:41:55	22:07:05	22:35:33	15:05:01	3.076	20.954	6
05/25/2020	M*	3:03:51	3:32:20	3:57:29	4:42:06	5:16:49	8:24:47	12:49:55	17:14:57	20:23:33	20:58:23	21:43:12	22:08:32	22:37:18	15:06:44	2.970	21.131	12
05/26/2020	Tu*	3:02:20	3:31:06	3:56:26	4:41:15	5:16:05	8:25:46	12:50:02	17:14:13	20:24:29	20:59:26	21:44:28	22:09:58	22:39:01	15:08:25	2.857	21.301	19
05/27/2020	W*	3:00:52	3:29:54	3:55:25	4:40:27	5:15:23	8:26:44	12:50:09	17:13:32	20:25:25	21:00:27	21:45:42	22:11:23	22:40:42	15:10:01	2.736	21.465	28
05/28/2020	Th*	2:59:27	3:28:46	3:54:27	4:39:41	5:14:43	8:27:40	12:50:16	17:12:53	20:26:19	21:01:28	21:46:54	22:12:45	22:42:21	15:11:35	2.608	21.622	39
05/29/2020	F*	2:58:04	3:27:40	3:53:31	4:38:57	5:14:06	8:28:34	12:50:25	17:12:16	20:27:11	21:02:27	21:48:05	22:14:06	22:43:58	15:13:05	2.472	21.774	50
05/30/2020	Sat*	2:56:44	3:26:36	3:52:37	4:38:15	5:13:31	8:29:27	12:50:33	17:11:41	20:28:03	21:03:24	21:49:14	22:15:24	22:45:33	15:14:32	2.330	21.919	61
05/31/2020	Sun*	2:55:28	3:25:36	3:51:47	4:37:36	5:12:57	8:30:19	12:50:42	17:11:09	20:28:53	21:04:20	21:50:21	22:16:41	22:47:05	15:15:55	2.182	22.057	72
06/01/2020	M*	2:54:14	3:24:39	3:50:59	4:36:59	5:12:26	8:31:09	12:50:51	17:10:39	20:29:41	21:05:14	21:51:25	22:17:55	22:48:35	15:17:15	2.027	22.190	82
06/02/2020	Tu*	2:53:04	3:23:44	3:50:13	4:36:25	5:11:57	8:31:58	12:51:01	17:10:11	20:30:28	21:06:06	21:52:28	22:19:06	22:50:02	15:18:31	1.866	22.315	90
06/03/2020	W*	2:51:58	3:22:53	3:49:31	4:35:53	5:11:31	8:32:45	12:51:11	17:09:45	20:31:14	21:06:57	21:53:29	22:20:16	22:51:26	15:19:43	1.700	22.435	96
06/04/2020	Th*	2:50:54	3:22:05	3:48:51	4:35:23	5:11:06	8:33:30	12:51:21	17:09:22	20:31:58	21:07:46	21:54:27	22:21:22	22:52:47	15:20:51	1.528	22.547	99
06/05/2020	F*	2:49:55	3:21:20	3:48:15	4:34:56	5:10:44	8:34:13	12:51:32	17:09:02	20:32:40	21:08:33	21:55:23	22:22:26	22:54:05	15:21:56	1.350	22.654	100
06/06/2020	Sat*	2:48:59	3:20:38	3:47:41	4:34:31	5:10:24	8:34:55	12:51:43	17:08:43	20:33:21	21:09:18	21:56:17	22:23:27	22:55:19	15:22:57	1.168	22.753	98
06/07/2020	Sun*	2:48:08	3:20:00	3:47:10	4:34:09	5:10:06	8:35:35	12:51:54	17:08:27	20:34:00	21:10:01	21:57:08	22:24:26	22:56:30	15:23:54	0.980	22.846	93
06/08/2020	M*	2:47:20	3:19:25	3:46:42	4:33:49	5:09:50	8:36:12	12:52:06	17:08:14	20:34:37	21:10:42	21:57:57	22:25:21	22:57:38	15:24:47	0.788	22.932	87

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End Nautical	End 15- deg.	End Astro- nomical	Length of Day	Noon	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight											Eqn Time (min.)	sun decli- nation (deg.)	Lunar Illum. (pct.)
06/09/2020	Tu*	2:46:37	3:18:53	3:46:17	4:33:32	5:09:37	8:36:49	12:52:17	17:08:02	20:35:13	21:11:21	21:58:43	22:26:14	22:58:41	15:25:36	0.592	23.012	79
06/10/2020	W*	2:45:58	3:18:25	3:45:56	4:33:18	5:09:26	8:37:23	12:52:29	17:07:53	20:35:46	21:11:58	21:59:27	22:27:03	22:59:41	15:26:20	0.392	23.084	70
06/11/2020	Th*	2:45:23	3:18:01	3:45:37	4:33:06	5:09:17	8:37:55	12:52:42	17:07:47	20:36:18	21:12:33	22:00:07	22:27:49	23:00:36	15:27:01	0.188	23.150	61
06/12/2020	F*	2:44:53	3:17:41	3:45:22	4:32:56	5:09:11	8:38:25	12:52:54	17:07:43	20:36:49	21:13:06	22:00:45	22:28:31	23:01:28	15:27:38	-0.019	23.210	51
06/13/2020	Sat*	2:44:27	3:17:24	3:45:10	4:32:49	5:09:06	8:38:53	12:53:07	17:07:41	20:37:17	21:13:36	22:01:21	22:29:11	23:02:15	15:28:10	-0.229	23.262	42
06/14/2020	Sun*	2:44:06	3:17:10	3:45:01	4:32:45	5:09:04	8:39:19	12:53:19	17:07:42	20:37:43	21:14:05	22:01:53	22:29:47	23:02:57	15:28:38	-0.442	23.307	33
06/15/2020	M*	2:43:50	3:17:01	3:44:55	4:32:43	5:09:05	8:39:43	12:53:32	17:07:45	20:38:07	21:14:30	22:02:22	22:30:19	23:03:35	15:29:02	-0.657	23.346	24
06/16/2020	Tu*	2:43:39	3:16:55	3:44:52	4:32:44	5:09:07	8:40:04	12:53:45	17:07:50	20:38:29	21:14:54	22:02:48	22:30:48	23:04:09	15:29:22	-0.873	23.378	17
06/17/2020	W*	2:43:32	3:16:53	3:44:53	4:32:47	5:09:12	8:40:24	12:53:58	17:07:58	20:38:49	21:15:15	22:03:12	22:31:13	23:04:38	15:29:38	-1.091	23.403	10
06/18/2020	Th*	2:43:31	3:16:55	3:44:56	4:32:53	5:09:19	8:40:41	12:54:12	17:08:07	20:39:07	21:15:34	22:03:32	22:31:34	23:05:01	15:29:49	-1.310	23.421	5
06/19/2020	F*	2:43:34	3:17:01	3:45:03	4:33:01	5:09:28	8:40:56	12:54:25	17:08:20	20:39:23	21:15:50	22:03:49	22:31:52	23:05:20	15:29:56	-1.530	23.432	1
06/20/2020	Sat*	2:43:42	3:17:10	3:45:13	4:33:12	5:09:39	8:41:09	12:54:38	17:08:34	20:39:37	21:16:04	22:04:03	22:32:06	23:05:35	15:29:58	-1.749	23.436	0
06/21/2020	Sun*	2:43:55	3:17:23	3:45:26	4:33:25	5:09:52	8:41:19	12:54:51	17:08:51	20:39:49	21:16:15	22:04:14	22:32:16	23:05:44	15:29:57	-1.968	23.434	1
06/22/2020	M*	2:44:12	3:17:40	3:45:43	4:33:41	5:10:07	8:41:27	12:55:04	17:09:09	20:39:58	21:16:24	22:04:21	22:32:23	23:05:48	15:29:51	-2.186	23.424	4
06/23/2020	Tu*	2:44:35	3:18:00	3:46:02	4:33:59	5:10:25	8:41:33	12:55:17	17:09:30	20:40:05	21:16:30	22:04:25	22:32:25	23:05:47	15:29:41	-2.403	23.408	9
06/24/2020	W*	2:45:02	3:18:24	3:46:24	4:34:19	5:10:44	8:41:36	12:55:30	17:09:53	20:40:10	21:16:34	22:04:26	22:32:24	23:05:42	15:29:26	-2.617	23.385	17
06/25/2020	Th*	2:45:34	3:18:52	3:46:50	4:34:42	5:11:06	8:41:37	12:55:43	17:10:18	20:40:13	21:16:35	22:04:24	22:32:19	23:05:31	15:29:07	-2.830	23.355	26
06/26/2020	F*	2:46:11	3:19:23	3:47:18	4:35:07	5:11:29	8:41:35	12:55:55	17:10:45	20:40:13	21:16:34	22:04:19	22:32:10	23:05:16	15:28:44	-3.039	23.318	36
06/27/2020	Sat*	2:46:52	3:19:58	3:47:49	4:35:34	5:11:54	8:41:31	12:56:08	17:11:14	20:40:12	21:16:29	22:04:10	22:31:57	23:04:56	15:28:17	-3.246	23.274	48
06/28/2020	Sun*	2:47:37	3:20:36	3:48:23	4:36:04	5:12:22	8:41:25	12:56:20	17:11:46	20:40:07	21:16:23	22:03:58	22:31:41	23:04:31	15:27:46	-3.449	23.223	59
06/29/2020	M*	2:48:27	3:21:17	3:49:00	4:36:35	5:12:51	8:41:16	12:56:32	17:12:19	20:40:01	21:16:13	22:03:43	22:31:21	23:04:01	15:27:10	-3.648	23.166	70
06/30/2020	Tu*	2:49:21	3:22:02	3:49:39	4:37:09	5:13:22	8:41:05	12:56:43	17:12:53	20:39:52	21:16:01	22:03:25	22:30:57	23:03:27	15:26:30	-3.842	23.102	80
07/01/2020	W*	2:50:19	3:22:49	3:50:21	4:37:45	5:13:54	8:40:51	12:56:55	17:13:30	20:39:41	21:15:47	22:03:03	22:30:29	23:02:48	15:25:47	-4.032	23.031	88
07/02/2020	Th*	2:51:21	3:23:40	3:51:06	4:38:23	5:14:29	8:40:35	12:57:06	17:14:09	20:39:27	21:15:29	22:02:39	22:29:58	23:02:06	15:24:59	-4.217	22.953	95
07/03/2020	F*	2:52:26	3:24:34	3:51:53	4:39:02	5:15:05	8:40:17	12:57:17	17:14:49	20:39:12	21:15:10	22:02:11	22:29:23	23:01:18	15:24:07	-4.397	22.869	99
07/04/2020	Sat*	2:53:35	3:25:31	3:52:43	4:39:44	5:15:42	8:39:56	12:57:27	17:15:31	20:38:54	21:14:47	22:01:40	22:28:45	23:00:27	15:23:11	-4.572	22.778	100
07/05/2020	Sun*	2:54:48	3:26:30	3:53:35	4:40:28	5:16:22	8:39:32	12:57:37	17:16:14	20:38:33	21:14:23	22:01:06	22:28:03	22:59:32	15:22:11	-4.740	22.680	99
07/06/2020	M*	2:56:04	3:27:32	3:54:29	4:41:13	5:17:03	8:39:07	12:57:47	17:17:00	20:38:11	21:13:55	22:00:30	22:27:19	22:58:33	15:21:08	-4.903	22.576	96
07/07/2020	Tu*	2:57:23	3:28:37	3:55:26	4:42:01	5:17:45	8:38:39	12:57:56	17:17:46	20:37:46	21:13:25	21:59:50	22:26:30	22:57:30	15:20:01	-5.059	22.466	91
07/08/2020	W*	2:58:45	3:29:44	3:56:25	4:42:49	5:18:29	8:38:08	12:58:05	17:18:35	20:37:19	21:12:53	21:59:07	22:25:39	22:56:23	15:18:50	-5.210	22.349	84
07/09/2020	Th*	3:00:10	3:30:54	3:57:25	4:43:40	5:19:14	8:37:35	12:58:14	17:19:24	20:36:49	21:12:18	21:58:22	22:24:45	22:55:13	15:17:35	-5.353	22.225	76
07/10/2020	F*	3:01:37	3:32:06	3:58:28	4:44:32	5:20:01	8:37:00	12:58:22	17:20:16	20:36:18	21:11:41	21:57:34	22:23:47	22:54:00	15:16:17	-5.489	22.095	67
07/11/2020	Sat*	3:03:07	3:33:20	3:59:33	4:45:26	5:20:49	8:36:23	12:58:30	17:21:08	20:35:44	21:11:01	21:56:43	22:22:47	22:52:43	15:14:55	-5.619	21.959	58
07/12/2020	Sun*	3:04:39	3:34:36	4:00:40	4:46:21	5:21:39	8:35:44	12:58:37	17:22:02	20:35:08	21:10:19	21:55:49	22:21:43	22:51:24	15:13:30	-5.741	21.817	49
07/13/2020	M*	3:06:14	3:35:54	4:01:48	4:47:18	5:22:29	8:35:02	12:58:44	17:22:58	20:34:30	21:09:35	21:54:53	22:20:37	22:50:01	15:12:01	-5.855	21.668	39
07/14/2020	Tu*	3:07:50	3:37:14	4:02:58	4:48:16	5:23:21	8:34:18	12:58:51	17:23:54	20:33:50	21:08:49	21:53:55	22:19:28	22:48:35	15:10:29	-5.961	21.513	30
07/15/2020	W*	3:09:29	3:38:36	4:04:10	4:49:16	5:24:14	8:33:32	12:58:57	17:24:52	20:33:08	21:08:00	21:52:53	22:18:17	22:47:07	15:08:54	-6.060	21.353	22
07/16/2020	Th*	3:11:09	3:39:59	4:05:23	4:50:17	5:25:09	8:32:43	12:59:02	17:25:51	20:32:24	21:07:09	21:51:50	22:17:03	22:45:36	15:07:15	-6.150	21.186	14
07/17/2020	F*	3:12:50	3:41:24	4:06:37	4:51:18	5:26:04	8:31:53	12:59:07	17:26:50	20:31:37	21:06:16	21:50:44	22:15:46	22:44:03	15:05:33	-6.231	21.013	8
07/18/2020	Sat*	3:14:34	3:42:51	4:07:53	4:52:22	5:27:00	8:31:00	12:59:11	17:27:51	20:30:49	21:05:20	21:49:35	22:14:27	22:42:27	15:03:49	-6.304	20.834	3

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End Nautical	End 15- deg.	End Astro- nomical	Length of Day	Noon Eqn Time (min.)	Noon sun decli- nation (deg.)	9 PM Lunar Illum. (pct.)
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight													
07/19/2020	Sun*	3:16:18	3:44:19	4:09:11	4:53:26	5:27:57	8:30:05	12:59:15	17:28:53	20:29:58	21:04:23	21:48:24	22:13:06	22:40:49	15:02:01	-6.367	20.649	0
07/20/2020	M*	3:18:04	3:45:48	4:10:29	4:54:31	5:28:56	8:29:09	12:59:18	17:29:56	20:29:06	21:03:23	21:47:12	22:11:42	22:39:09	15:00:10	-6.422	20.458	0
07/21/2020	Tu*	3:19:50	3:47:18	4:11:48	4:55:37	5:29:55	8:28:10	12:59:21	17:31:00	20:28:11	21:02:21	21:45:57	22:10:16	22:37:27	14:58:17	-6.467	20.262	3
07/22/2020	W*	3:21:38	3:48:49	4:13:09	4:56:44	5:30:54	8:27:09	12:59:23	17:32:04	20:27:15	21:01:18	21:44:39	22:08:48	22:35:43	14:56:21	-6.502	20.060	7
07/23/2020	Th*	3:23:26	3:50:21	4:14:30	4:57:52	5:31:55	8:26:06	12:59:25	17:33:09	20:26:17	21:00:12	21:43:20	22:07:19	22:33:56	14:54:22	-6.527	19.853	15
07/24/2020	F*	3:25:16	3:51:54	4:15:52	4:59:01	5:32:56	8:25:01	12:59:25	17:34:15	20:25:17	20:59:05	21:41:59	22:05:47	22:32:09	14:52:20	-6.542	19.640	24
07/25/2020	Sat*	3:27:05	3:53:27	4:17:15	5:00:10	5:33:58	8:23:55	12:59:26	17:35:22	20:24:15	20:57:55	21:40:36	22:04:13	22:30:19	14:50:16	-6.547	19.421	34
07/26/2020	Sun*	3:28:55	3:55:01	4:18:39	5:01:20	5:35:01	8:22:46	12:59:25	17:36:29	20:23:11	20:56:44	21:39:11	22:02:37	22:28:28	14:48:10	-6.542	19.198	46
07/27/2020	M*	3:30:46	3:56:36	4:20:03	5:02:31	5:36:04	8:21:36	12:59:25	17:37:37	20:22:05	20:55:31	21:37:44	22:01:00	22:26:35	14:46:01	-6.527	18.969	57
07/28/2020	Tu*	3:32:37	3:58:12	4:21:28	5:03:42	5:37:08	8:20:24	12:59:23	17:38:46	20:20:58	20:54:16	21:36:16	21:59:21	22:24:41	14:43:50	-6.501	18.734	68
07/29/2020	W*	3:34:28	3:59:47	4:22:53	5:04:53	5:38:12	8:19:10	12:59:21	17:39:54	20:19:48	20:52:59	21:34:45	21:57:41	22:22:45	14:41:36	-6.464	18.495	78
07/30/2020	Th*	3:36:19	4:01:23	4:24:19	5:06:06	5:39:17	8:17:54	12:59:18	17:41:04	20:18:38	20:51:41	21:33:13	21:55:58	22:20:48	14:39:21	-6.417	18.251	86
07/31/2020	F*	3:38:10	4:03:00	4:25:45	5:07:18	5:40:22	8:16:36	12:59:15	17:42:14	20:17:25	20:50:21	21:31:40	21:54:15	22:18:50	14:37:03	-6.360	18.001	93
08/01/2020	Sat*	3:40:01	4:04:36	4:27:11	5:08:31	5:41:27	8:15:17	12:59:10	17:43:24	20:16:11	20:48:59	21:30:05	21:52:30	22:16:50	14:34:44	-6.292	17.747	97
08/02/2020	Sun*	3:41:52	4:06:13	4:28:38	5:09:45	5:42:33	8:13:57	12:59:06	17:44:35	20:14:55	20:47:36	21:28:29	21:50:43	22:14:50	14:32:22	-6.214	17.488	100
08/03/2020	M*	3:43:43	4:07:50	4:30:05	5:10:58	5:43:39	8:12:34	12:59:01	17:45:46	20:13:38	20:46:11	21:26:51	21:48:56	22:12:49	14:29:59	-6.127	17.224	100
08/04/2020	Tu*	3:45:33	4:09:26	4:31:32	5:12:12	5:44:46	8:11:11	12:58:55	17:46:57	20:12:19	20:44:45	21:25:12	21:47:07	22:10:46	14:27:33	-6.029	16.956	98
08/05/2020	W*	3:47:24	4:11:03	4:32:59	5:13:26	5:45:53	8:09:45	12:58:48	17:48:08	20:10:59	20:43:18	21:23:31	21:45:17	22:08:43	14:25:06	-5.921	16.683	94
08/06/2020	Th*	3:49:14	4:12:40	4:34:26	5:14:41	5:47:00	8:08:19	12:58:41	17:49:20	20:09:37	20:41:49	21:21:50	21:43:26	22:06:39	14:22:37	-5.803	16.406	88
08/07/2020	F*	3:51:04	4:14:17	4:35:54	5:15:55	5:48:07	8:06:51	12:58:33	17:50:33	20:08:14	20:40:18	21:20:07	21:41:34	22:04:34	14:20:07	-5.676	16.124	81
08/08/2020	Sat*	3:52:53	4:15:53	4:37:21	5:17:10	5:49:15	8:05:21	12:58:25	17:51:45	20:06:50	20:38:47	21:18:23	21:39:41	22:02:29	14:17:35	-5.539	15.838	74
08/09/2020	Sun*	3:54:42	4:17:30	4:38:48	5:18:25	5:50:23	8:03:50	12:58:16	17:52:58	20:05:24	20:37:14	21:16:38	21:37:47	22:00:22	14:15:02	-5.392	15.547	65
08/10/2020	M*	3:56:30	4:19:06	4:40:16	5:19:40	5:51:31	8:02:18	12:58:07	17:54:11	20:03:57	20:35:40	21:14:52	21:35:52	21:58:16	14:12:27	-5.237	15.253	56
08/11/2020	Tu*	3:58:18	4:20:42	4:41:43	5:20:55	5:52:39	8:00:45	12:57:57	17:55:24	20:02:29	20:34:05	21:13:05	21:33:56	21:56:08	14:09:50	-5.072	14.954	46
08/12/2020	W*	4:00:06	4:22:18	4:43:10	5:22:10	5:53:47	7:59:10	12:57:47	17:56:37	20:01:00	20:32:29	21:11:17	21:32:00	21:54:00	14:07:13	-4.898	14.652	36
08/13/2020	Th*	4:01:52	4:23:53	4:44:37	5:23:25	5:54:56	7:57:34	12:57:36	17:57:50	19:59:29	20:30:52	21:09:28	21:30:03	21:51:52	14:04:34	-4.716	14.345	27
08/14/2020	F*	4:03:39	4:25:29	4:46:04	5:24:41	5:56:04	7:55:57	12:57:24	17:59:04	19:57:58	20:29:13	21:07:38	21:28:05	21:49:43	14:01:53	-4.525	14.035	19
08/15/2020	Sat*	4:05:24	4:27:03	4:47:30	5:25:56	5:57:13	7:54:19	12:57:12	18:00:17	19:56:25	20:27:34	21:05:47	21:26:06	21:47:34	13:59:12	-4.325	13.721	11
08/16/2020	Sun*	4:07:09	4:28:38	4:48:57	5:27:11	5:58:22	7:52:39	12:57:00	18:01:31	19:54:51	20:25:54	21:03:56	21:24:07	21:45:24	13:56:29	-4.116	13.403	5
08/17/2020	M*	4:08:54	4:30:12	4:50:23	5:28:26	5:59:30	7:50:59	12:56:47	18:02:45	19:53:16	20:24:13	21:02:04	21:22:07	21:43:15	13:53:45	-3.900	13.082	1
08/18/2020	Tu*	4:10:37	4:31:45	4:51:49	5:29:41	6:00:39	7:49:18	12:56:33	18:03:59	19:51:40	20:22:31	21:00:11	21:20:07	21:41:04	13:51:01	-3.675	12.758	0
08/19/2020	W*	4:12:20	4:33:18	4:53:14	5:30:56	6:01:48	7:47:35	12:56:19	18:05:12	19:50:03	20:20:48	20:58:18	21:18:06	21:38:54	13:48:15	-3.441	12.429	2
08/20/2020	Th*	4:14:02	4:34:51	4:54:39	5:32:11	6:02:57	7:45:52	12:56:05	18:06:26	19:48:25	20:19:04	20:56:24	21:16:05	21:36:43	13:45:28	-3.200	12.098	6
08/21/2020	F*	4:15:44	4:36:23	4:56:04	5:33:26	6:04:06	7:44:08	12:55:50	18:07:40	19:46:46	20:17:19	20:54:29	21:14:03	21:34:33	13:42:40	-2.951	11.764	13
08/22/2020	Sat*	4:17:25	4:37:54	4:57:29	5:34:40	6:05:15	7:42:23	12:55:35	18:08:54	19:45:06	20:15:34	20:52:34	21:12:01	21:32:22	13:39:52	-2.695	11.426	22
08/23/2020	Sun*	4:19:04	4:39:26	4:58:53	5:35:55	6:06:23	7:40:36	12:55:19	18:10:08	19:43:26	20:13:48	20:50:38	21:09:59	21:30:10	13:37:02	-2.430	11.085	32
08/24/2020	M*	4:20:44	4:40:56	5:00:17	5:37:09	6:07:32	7:38:50	12:55:02	18:11:22	19:41:44	20:12:01	20:48:42	21:07:56	21:27:59	13:34:12	-2.159	10.742	43
08/25/2020	Tu*	4:22:22	4:42:26	5:01:40	5:38:23	6:08:41	7:37:02	12:54:46	18:12:35	19:40:02	20:10:13	20:46:46	21:05:53	21:25:48	13:31:21	-1.880	10.396	54
08/26/2020	W*	4:23:59	4:43:55	5:03:03	5:39:37	6:09:50	7:35:13	12:54:29	18:13:49	19:38:19	20:08:25	20:44:49	21:03:50	21:23:37	13:28:30	-1.594	10.047	65
08/27/2020	Th*	4:25:36	4:45:24	5:04:26	5:40:50	6:10:58	7:33:24	12:54:11	18:15:03	19:36:36	20:06:37	20:42:51	21:01:46	21:21:26	13:25:37	-1.302	9.695	75

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End Nautical	End 15- deg.	End Astro- nomical	Length of Day	Noon Eqn Time (min.)	Noon sun decli- nation (deg.)	9 PM Lunar Illum. (pct.)
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight													
08/28/2020	F*	4:27:12	4:46:52	5:05:48	5:42:04	6:12:07	7:31:34	12:53:53	18:16:17	19:34:51	20:04:47	20:40:54	20:59:43	21:19:15	13:22:45	-1.003	9.341	84
08/29/2020	Sat*	4:28:47	4:48:20	5:07:09	5:43:17	6:13:15	7:29:43	12:53:35	18:17:30	19:33:06	20:02:58	20:38:56	20:57:39	21:17:03	13:19:51	-0.699	8.984	90
08/30/2020	Sun*	4:30:21	4:49:47	5:08:31	5:44:30	6:14:24	7:27:52	12:53:16	18:18:44	19:31:21	20:01:08	20:36:57	20:55:35	21:14:53	13:16:57	-0.388	8.625	96
08/31/2020	M*	4:31:55	4:51:13	5:09:52	5:45:43	6:15:32	7:26:00	12:52:57	18:19:58	19:29:34	19:59:17	20:34:59	20:53:31	21:12:42	13:14:02	-0.073	8.264	99
09/01/2020	Tu*	4:33:28	4:52:39	5:11:12	5:46:56	6:16:40	7:24:08	12:52:38	18:21:12	19:27:47	19:57:26	20:33:00	20:51:27	21:10:31	13:11:07	0.248	7.900	100
09/02/2020	W*	4:35:00	4:54:04	5:12:32	5:48:08	6:17:49	7:22:15	12:52:18	18:22:25	19:26:00	19:55:34	20:31:01	20:49:23	21:08:21	13:08:11	0.574	7.535	99
09/03/2020	Th*	4:36:31	4:55:29	5:13:52	5:49:21	6:18:57	7:20:21	12:51:59	18:23:39	19:24:12	19:53:43	20:29:03	20:47:19	21:06:10	13:05:15	0.903	7.167	96
09/04/2020	F*	4:38:02	4:56:53	5:15:11	5:50:33	6:20:05	7:18:28	12:51:39	18:24:53	19:22:24	19:51:51	20:27:04	20:45:16	21:04:00	13:02:19	1.237	6.798	92
09/05/2020	Sat*	4:39:32	4:58:17	5:16:30	5:51:45	6:21:14	7:16:33	12:51:18	18:26:07	19:20:35	19:49:58	20:25:05	20:43:12	21:01:51	12:59:22	1.574	6.426	86
09/06/2020	Sun*	4:41:01	4:59:40	5:17:48	5:52:57	6:22:22	7:14:38	12:50:58	18:27:21	19:18:46	19:48:06	20:23:05	20:41:08	20:59:41	12:56:24	1.915	6.053	79
09/07/2020	M*	4:42:29	5:01:03	5:19:07	5:54:09	6:23:30	7:12:43	12:50:37	18:28:34	19:16:57	19:46:13	20:21:06	20:39:05	20:57:32	12:53:26	2.259	5.678	71
09/08/2020	Tu*	4:43:57	5:02:25	5:20:24	5:55:20	6:24:39	7:10:48	12:50:17	18:29:48	19:15:07	19:44:20	20:19:07	20:37:01	20:55:24	12:50:28	2.605	5.302	62
09/09/2020	W*	4:45:24	5:03:47	5:21:42	5:56:32	6:25:47	7:08:52	12:49:56	18:31:02	19:13:17	19:42:27	20:17:09	20:34:58	20:53:15	12:47:30	2.954	4.924	53
09/10/2020	Th*	4:46:50	5:05:08	5:22:59	5:57:43	6:26:55	7:06:56	12:49:35	18:32:17	19:11:26	19:40:34	20:15:10	20:32:56	20:51:07	12:44:31	3.304	4.545	43
09/11/2020	F*	4:48:16	5:06:29	5:24:16	5:58:54	6:28:04	7:04:59	12:49:14	18:33:31	19:09:36	19:38:40	20:13:11	20:30:53	20:49:00	12:41:32	3.656	4.164	33
09/12/2020	Sat*	4:49:41	5:07:49	5:25:32	6:00:05	6:29:12	7:03:03	12:48:52	18:34:45	19:07:45	19:36:47	20:11:12	20:28:51	20:46:53	12:38:33	4.010	3.782	23
09/13/2020	Sun*	4:51:06	5:09:09	5:26:48	6:01:16	6:30:21	7:01:06	12:48:31	18:36:00	19:05:54	19:34:53	20:09:14	20:26:49	20:44:46	12:35:33	4.364	3.399	15
09/14/2020	M*	4:52:30	5:10:29	5:28:04	6:02:27	6:31:30	6:59:09	12:48:10	18:37:14	19:04:03	19:33:00	20:07:16	20:24:47	20:42:40	12:32:33	4.720	3.015	8
09/15/2020	Tu*	4:53:53	5:11:48	5:29:20	6:03:38	6:32:38	6:57:12	12:47:48	18:38:29	19:02:12	19:31:07	20:05:18	20:22:46	20:40:35	12:29:33	5.075	2.630	3
09/16/2020	W*	4:55:16	5:13:06	5:30:35	6:04:49	6:33:47	6:55:15	12:47:27	18:39:44	19:00:20	19:29:13	20:03:21	20:20:45	20:38:30	12:26:33	5.431	2.244	0
09/17/2020	Th*	4:56:38	5:14:24	5:31:50	6:06:00	6:34:56	6:53:17	12:47:06	18:40:59	18:58:29	19:27:20	20:01:23	20:18:45	20:36:26	12:23:33	5.787	1.857	1
09/18/2020	F*	4:58:00	5:15:42	5:33:05	6:07:11	6:36:05	6:51:20	12:46:44	18:42:14	18:56:37	19:25:27	19:59:26	20:16:45	20:34:22	12:20:32	6.142	1.469	4
09/19/2020	Sat*	4:59:21	5:16:59	5:34:19	6:08:21	6:37:14	6:49:23	12:46:23	18:43:29	18:54:46	19:23:34	19:57:30	20:14:45	20:32:19	12:17:32	6.497	1.081	11
09/20/2020	Sun*	5:00:42	5:18:16	5:35:34	6:09:32	6:38:23	6:47:25	12:46:02	18:44:44	18:52:54	19:21:41	19:55:33	20:12:46	20:30:16	12:14:31	6.851	0.693	19
09/21/2020	M*	5:02:02	5:19:33	5:36:47	6:10:42	6:39:33	6:45:28	12:45:41	18:46:00	18:51:03	19:19:49	19:53:37	20:10:48	20:28:15	12:11:30	7.204	0.304	29
09/22/2020	Tu*	5:03:21	5:20:49	5:38:01	6:11:53	6:40:42		12:45:20		18:49:11	19:17:56	19:51:42	20:08:50	20:26:14	12:08:29	7.555	-0.085	40
09/23/2020	W*	5:04:41	5:22:05	5:39:15	6:13:03	6:41:52		12:44:59		18:47:20	19:16:04	19:49:47	20:06:53	20:24:13	12:05:28	7.905	-0.474	51
09/24/2020	Th*	5:05:59	5:23:21	5:40:28	6:14:14	6:43:01		12:44:38		18:45:29	19:14:12	19:47:52	20:04:56	20:22:14	12:02:28	8.253	-0.864	61
09/25/2020	F*	5:07:17	5:24:36	5:41:41	6:15:24	6:44:11		12:44:17		18:43:38	19:12:21	19:45:59	20:03:00	20:20:15	11:59:27	8.598	-1.253	71
09/26/2020	Sat*	5:08:35	5:25:51	5:42:54	6:16:35	6:45:21		12:43:57		18:41:47	19:10:30	19:44:05	20:01:05	20:18:17	11:56:26	8.940	-1.642	80
09/27/2020	Sun*	5:09:52	5:27:05	5:44:06	6:17:45	6:46:31		12:43:36		18:39:56	19:08:39	19:42:12	19:59:10	20:16:19	11:53:25	9.279	-2.031	87
09/28/2020	M*	5:11:09	5:28:20	5:45:19	6:18:55	6:47:41		12:43:16		18:38:06	19:06:48	19:40:20	19:57:16	20:14:23	11:50:25	9.614	-2.420	93
09/29/2020	Tu*	5:12:25	5:29:34	5:46:31	6:20:06	6:48:52		12:42:56		18:36:16	19:04:59	19:38:28	19:55:23	20:12:27	11:47:24	9.946	-2.808	97
09/30/2020	W*	5:13:41	5:30:47	5:47:43	6:21:16	6:50:03		12:42:37		18:34:26	19:03:09	19:36:37	19:53:30	20:10:33	11:44:24	10.273	-3.196	99
10/01/2020	Th*	5:14:57	5:32:01	5:48:55	6:22:27	6:51:14		12:42:17		18:32:37	19:01:20	19:34:47	19:51:38	20:08:39	11:41:23	10.595	-3.583	100
10/02/2020	F*	5:16:12	5:33:14	5:50:07	6:23:38	6:52:25		12:41:58		18:30:48	18:59:32	19:32:58	19:49:48	20:06:46	11:38:23	10.912	-3.970	98
10/03/2020	Sat*	5:17:27	5:34:27	5:51:19	6:24:48	6:53:36		12:41:39		18:28:59	18:57:44	19:31:09	19:47:58	20:04:54	11:35:23	11.224	-4.355	95
10/04/2020	Sun*	5:18:42	5:35:40	5:52:30	6:25:59	6:54:48		12:41:21		18:27:11	18:55:57	19:29:21	19:46:08	20:03:03	11:32:23	11.530	-4.740	91
10/05/2020	M*	5:19:56	5:36:53	5:53:42	6:27:10	6:56:00		12:41:03		18:25:23	18:54:10	19:27:34	19:44:20	20:01:14	11:29:24	11.829	-5.124	85
10/06/2020	Tu*	5:21:11	5:38:06	5:54:54	6:28:21	6:57:12		12:40:46		18:23:36	18:52:24	19:25:47	19:42:33	19:59:25	11:26:24	12.122	-5.507	77

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin				Sunrise	Sun East	Local Noon	Sun West	Sunset	End					Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	Begin 15-deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight						End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight					
10/07/2020	W*	5:22:25	5:39:18	5:56:05	6:29:33	6:58:25		12:40:28	18:21:50	18:50:39	19:24:02	19:40:47	19:57:37	11:23:25	12.408	-5.889	69		
10/08/2020	Th*	5:23:38	5:40:30	5:57:17	6:30:44	6:59:37		12:40:12	18:20:04	18:48:54	19:22:17	19:39:01	19:55:51	11:20:26	12.686	-6.269	59		
10/09/2020	F*	5:24:52	5:41:43	5:58:28	6:31:56	7:00:51		12:39:55	18:18:18	18:47:10	19:20:34	19:37:17	19:54:05	11:17:28	12.957	-6.649	49		
10/10/2020	Sat*	5:26:05	5:42:55	5:59:40	6:33:08	7:02:04		12:39:40	18:16:34	18:45:27	19:18:51	19:35:34	19:52:21	11:14:30	13.220	-7.026	39		
10/11/2020	Sun*	5:27:18	5:44:07	6:00:52	6:34:20	7:03:18		12:39:24	18:14:50	18:43:45	19:17:10	19:33:52	19:50:38	11:11:32	13.474	-7.403	29		
10/12/2020	M*	5:28:31	5:45:19	6:02:03	6:35:32	7:04:32		12:39:10	18:13:06	18:42:04	19:15:29	19:32:11	19:48:56	11:08:34	13.720	-7.777	19		
10/13/2020	Tu*	5:29:44	5:46:31	6:03:15	6:36:44	7:05:46		12:38:56	18:11:24	18:40:24	19:13:49	19:30:31	19:47:16	11:05:37	13.956	-8.150	11		
10/14/2020	W*	5:30:57	5:47:43	6:04:26	6:37:57	7:07:01		12:38:42	18:09:42	18:38:44	19:12:11	19:28:52	19:45:36	11:02:41	14.184	-8.521	5		
10/15/2020	Th*	5:32:09	5:48:55	6:05:38	6:39:09	7:08:16		12:38:29	18:08:01	18:37:06	19:10:34	19:27:15	19:43:58	10:59:45	14.401	-8.890	1		
10/16/2020	F*	5:33:22	5:50:07	6:06:50	6:40:22	7:09:32		12:38:16	18:06:21	18:35:28	19:08:57	19:25:39	19:42:21	10:56:49	14.610	-9.256	0		
10/17/2020	Sat*	5:34:34	5:51:18	6:08:02	6:41:35	7:10:48		12:38:04	18:04:42	18:33:52	19:07:22	19:24:04	19:40:46	10:53:54	14.808	-9.621	3		
10/18/2020	Sun*	5:35:46	5:52:30	6:09:13	6:42:49	7:12:04		12:37:53	18:03:03	18:32:16	19:05:48	19:22:30	19:39:12	10:51:00	14.996	-9.983	8		
10/19/2020	M*	5:36:58	5:53:42	6:10:25	6:44:02	7:13:20		12:37:42	18:01:26	18:30:42	19:04:16	19:20:57	19:37:39	10:48:06	15.174	-10.343	16		
10/20/2020	Tu*	5:38:10	5:54:53	6:11:37	6:45:16	7:14:37		12:37:32	17:59:49	18:29:08	19:02:44	19:19:26	19:36:08	10:45:13	15.342	-10.701	25		
10/21/2020	W*	5:39:21	5:56:05	6:12:49	6:46:29	7:15:54		12:37:23	17:58:14	18:27:36	19:01:14	19:17:57	19:34:38	10:42:20	15.498	-11.055	35		
10/22/2020	Th*	5:40:33	5:57:16	6:14:01	6:47:43	7:17:11		12:37:14	17:56:40	18:26:05	18:59:45	19:16:28	19:33:10	10:39:29	15.644	-11.407	46		
10/23/2020	F*	5:41:44	5:58:27	6:15:12	6:48:57	7:18:28		12:37:06	17:55:06	18:24:35	18:58:18	19:15:01	19:31:43	10:36:38	15.779	-11.756	56		
10/24/2020	Sat*	5:42:55	5:59:39	6:16:24	6:50:12	7:19:46		12:36:59	17:53:34	18:23:07	18:56:52	19:13:36	19:30:17	10:33:48	15.902	-12.102	66		
10/25/2020	Sun*	5:44:06	6:00:50	6:17:36	6:51:26	7:21:04		12:36:52	17:52:03	18:21:40	18:55:27	19:12:12	19:28:54	10:30:59	16.014	-12.445	75		
10/26/2020	M*	5:45:17	6:02:01	6:18:48	6:52:40	7:22:22		12:36:46	17:50:34	18:20:14	18:54:04	19:10:49	19:27:31	10:28:12	16.113	-12.785	83		
10/27/2020	Tu*	5:46:28	6:03:12	6:20:00	6:53:55	7:23:40		12:36:41	17:49:05	18:18:49	18:52:42	19:09:28	19:26:11	10:25:25	16.201	-13.121	89		
10/28/2020	W*	5:47:39	6:04:23	6:21:12	6:55:10	7:24:59		12:36:36	17:47:38	18:17:26	18:51:22	19:08:09	19:24:52	10:22:39	16.276	-13.454	94		
10/29/2020	Th*	5:48:49	6:05:34	6:22:23	6:56:24	7:26:18		12:36:33	17:46:12	18:16:04	18:50:03	19:06:51	19:23:34	10:19:54	16.338	-13.783	98		
10/30/2020	F*	5:50:00	6:06:45	6:23:35	6:57:39	7:27:37		12:36:30	17:44:47	18:14:44	18:48:46	19:05:34	19:22:18	10:17:10	16.388	-14.109	100		
10/31/2020	Sat*	5:51:10	6:07:56	6:24:47	6:58:54	7:28:56		12:36:27	17:43:24	18:13:25	18:47:30	19:04:20	19:21:04	10:14:28	16.424	-14.431	100		
11/01/2020	Sun	4:52:20	5:09:07	5:25:59	6:00:09	6:30:15		11:36:26	16:42:03	17:12:08	17:46:16	18:03:07	18:19:52	10:11:47	16.447	-14.749	98		
11/02/2020	M	4:53:30	5:10:18	5:27:11	6:01:24	6:31:35		11:36:26	16:40:42	17:10:52	17:45:04	18:01:56	18:18:42	10:09:07	16.457	-15.063	94		
11/03/2020	Tu	4:54:40	5:11:28	5:28:22	6:02:39	6:32:55		11:36:26	16:39:24	17:09:38	17:43:53	18:00:46	18:17:33	10:06:29	16.453	-15.373	89		
11/04/2020	W	4:55:50	5:12:39	5:29:34	6:03:55	6:34:14		11:36:27	16:38:07	17:08:25	17:42:44	17:59:38	18:16:26	10:03:52	16.435	-15.679	82		
11/05/2020	Th	4:57:00	5:13:49	5:30:46	6:05:10	6:35:34		11:36:29	16:36:51	17:07:14	17:41:37	17:58:32	18:15:21	10:01:17	16.403	-15.981	74		
11/06/2020	F	4:58:09	5:14:59	5:31:57	6:06:25	6:36:54		11:36:32	16:35:37	17:06:05	17:40:32	17:57:28	18:14:18	9:58:43	16.356	-16.278	65		
11/07/2020	Sat	4:59:18	5:16:10	5:33:08	6:07:40	6:38:14		11:36:35	16:34:25	17:04:58	17:39:28	17:56:26	18:13:16	9:56:11	16.296	-16.570	54		
11/08/2020	Sun	5:00:27	5:17:20	5:34:20	6:08:55	6:39:34		11:36:40	16:33:15	17:03:52	17:38:26	17:55:26	18:12:17	9:53:41	16.221	-16.858	44		
11/09/2020	M	5:01:36	5:18:29	5:35:31	6:10:10	6:40:54		11:36:45	16:32:06	17:02:49	17:37:26	17:54:27	18:11:19	9:51:13	16.132	-17.142	33		
11/10/2020	Tu	5:02:45	5:19:39	5:36:42	6:11:25	6:42:13		11:36:51	16:30:59	17:01:47	17:36:29	17:53:31	18:10:24	9:48:46	16.028	-17.420	23		
11/11/2020	W	5:03:53	5:20:49	5:37:53	6:12:40	6:43:33		11:36:58	16:29:54	17:00:47	17:35:33	17:52:36	18:09:30	9:46:21	15.910	-17.694	14		
11/12/2020	Th	5:05:01	5:21:58	5:39:03	6:13:54	6:44:53		11:37:06	16:28:51	16:59:49	17:34:38	17:51:43	18:08:39	9:43:59	15.777	-17.962	6		
11/13/2020	F	5:06:09	5:23:07	5:40:14	6:15:09	6:46:12		11:37:15	16:27:50	16:58:52	17:33:46	17:50:53	18:07:49	9:41:38	15.630	-18.225	2		
11/14/2020	Sat	5:07:17	5:24:15	5:41:24	6:16:23	6:47:31		11:37:25	16:26:51	16:57:58	17:32:56	17:50:04	18:07:02	9:39:20	15.469	-18.483	0		
11/15/2020	Sun	5:08:24	5:25:24	5:42:34	6:17:37	6:48:50		11:37:35	16:25:54	16:57:06	17:32:08	17:49:17	18:06:16	9:37:04	15.294	-18.736	1		

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End				Length of Day	Noon	sun decli-	9 PM
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight			Noon			End Civil Twilight	Nautical Twilight	End-15-deg. Twilight	End Astro-nomical Twilight		Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)
11/16/2020	M	5:09:31	5:26:32	5:43:43	6:18:50	6:50:08		11:37:47		16:24:59	16:56:16	17:31:22	17:48:33	18:05:33	9:34:51	15.104	-18.983	6
11/17/2020	Tu	5:10:37	5:27:39	5:44:52	6:20:03	6:51:26		11:37:59		16:24:06	16:55:28	17:30:38	17:47:50	18:04:52	9:32:40	14.901	-19.224	12
11/18/2020	W	5:11:43	5:28:46	5:46:01	6:21:16	6:52:44		11:38:12		16:23:15	16:54:42	17:29:56	17:47:10	18:04:12	9:30:31	14.684	-19.459	20
11/19/2020	Th	5:12:49	5:29:53	5:47:09	6:22:28	6:54:01		11:38:26		16:22:26	16:53:58	17:29:16	17:46:32	18:03:35	9:28:25	14.454	-19.689	30
11/20/2020	F	5:13:54	5:30:59	5:48:17	6:23:40	6:55:17		11:38:40		16:21:39	16:53:16	17:28:39	17:45:55	18:03:00	9:26:22	14.210	-19.913	40
11/21/2020	Sat	5:14:58	5:32:05	5:49:24	6:24:51	6:56:33		11:38:56		16:20:55	16:52:37	17:28:03	17:45:21	18:02:27	9:24:22	13.954	-20.131	50
11/22/2020	Sun	5:16:02	5:33:10	5:50:30	6:26:01	6:57:48		11:39:12		16:20:13	16:51:59	17:27:30	17:44:49	18:01:57	9:22:24	13.684	-20.342	60
11/23/2020	M	5:17:06	5:34:14	5:51:36	6:27:11	6:59:03		11:39:29		16:19:33	16:51:24	17:26:58	17:44:20	18:01:28	9:20:30	13.402	-20.547	69
11/24/2020	Tu	5:18:08	5:35:18	5:52:41	6:28:20	7:00:16		11:39:46		16:18:55	16:50:51	17:26:29	17:43:52	18:01:02	9:18:39	13.107	-20.746	77
11/25/2020	W	5:19:10	5:36:21	5:53:46	6:29:28	7:01:29		11:40:05		16:18:20	16:50:21	17:26:03	17:43:27	18:00:37	9:16:51	12.800	-20.939	85
11/26/2020	Th	5:20:11	5:37:24	5:54:49	6:30:36	7:02:41		11:40:24		16:17:47	16:49:52	17:25:38	17:43:03	18:00:15	9:15:06	12.481	-21.124	91
11/27/2020	F	5:21:12	5:38:25	5:55:52	6:31:42	7:03:52		11:40:44		16:17:17	16:49:26	17:25:15	17:42:42	17:59:55	9:13:24	12.150	-21.304	95
11/28/2020	Sat	5:22:11	5:39:26	5:56:54	6:32:48	7:05:02		11:41:04		16:16:48	16:49:02	17:24:55	17:42:23	17:59:37	9:11:46	11.807	-21.476	99
11/29/2020	Sun	5:23:10	5:40:26	5:57:56	6:33:53	7:06:11		11:41:26		16:16:23	16:48:41	17:24:37	17:42:07	17:59:22	9:10:12	11.453	-21.642	100
11/30/2020	M	5:24:08	5:41:25	5:58:56	6:34:56	7:07:19		11:41:48		16:16:00	16:48:22	17:24:22	17:41:52	17:59:09	9:08:41	11.088	-21.801	99
12/01/2020	Tu	5:25:05	5:42:23	5:59:55	6:35:59	7:08:25		11:42:10		16:15:39	16:48:05	17:24:08	17:41:40	17:58:57	9:07:14	10.712	-21.952	97
12/02/2020	W	5:26:02	5:43:20	6:00:54	6:37:00	7:09:30		11:42:33		16:15:21	16:47:51	17:23:57	17:41:30	17:58:48	9:05:50	10.326	-22.097	93
12/03/2020	Th	5:26:57	5:44:16	6:01:51	6:38:01	7:10:34		11:42:57		16:15:05	16:47:39	17:23:48	17:41:22	17:58:42	9:04:31	9.929	-22.235	87
12/04/2020	F	5:27:51	5:45:11	6:02:47	6:39:00	7:11:37		11:43:22		16:14:52	16:47:29	17:23:41	17:41:17	17:58:37	9:03:15	9.523	-22.366	79
12/05/2020	Sat	5:28:44	5:46:06	6:03:42	6:39:58	7:12:38		11:43:47		16:14:42	16:47:22	17:23:37	17:41:14	17:58:35	9:02:03	9.107	-22.489	70
12/06/2020	Sun	5:29:36	5:46:58	6:04:36	6:40:54	7:13:38		11:44:12		16:14:34	16:47:17	17:23:35	17:41:13	17:58:34	9:00:56	8.682	-22.605	60
12/07/2020	M	5:30:27	5:47:50	6:05:29	6:41:49	7:14:36		11:44:38		16:14:28	16:47:15	17:23:35	17:41:14	17:58:36	8:59:52	8.248	-22.714	49
12/08/2020	Tu	5:31:17	5:48:41	6:06:20	6:42:43	7:15:33		11:45:05		16:14:26	16:47:15	17:23:38	17:41:17	17:58:40	8:58:53	7.806	-22.815	37
12/09/2020	W	5:32:06	5:49:30	6:07:11	6:43:36	7:16:28		11:45:32		16:14:25	16:47:17	17:23:42	17:41:23	17:58:47	8:57:58	7.356	-22.909	27
12/10/2020	Th	5:32:53	5:50:18	6:07:59	6:44:26	7:17:21		11:45:59		16:14:28	16:47:22	17:23:49	17:41:30	17:58:55	8:57:07	6.899	-22.995	17
12/11/2020	F	5:33:39	5:51:05	6:08:47	6:45:16	7:18:12		11:46:27		16:14:33	16:47:30	17:23:58	17:41:40	17:59:05	8:56:21	6.436	-23.074	9
12/12/2020	Sat	5:34:24	5:51:50	6:09:33	6:46:03	7:19:02		11:46:55		16:14:41	16:47:39	17:24:10	17:41:52	17:59:18	8:55:39	5.966	-23.145	3
12/13/2020	Sun	5:35:07	5:52:34	6:10:17	6:46:49	7:19:50		11:47:24		16:14:51	16:47:51	17:24:23	17:42:06	17:59:33	8:55:01	5.490	-23.209	0
12/14/2020	M	5:35:49	5:53:16	6:11:00	6:47:33	7:20:35		11:47:52		16:15:04	16:48:06	17:24:39	17:42:23	17:59:49	8:54:28	5.009	-23.265	0
12/15/2020	Tu	5:36:30	5:53:57	6:11:41	6:48:16	7:21:19		11:48:21		16:15:19	16:48:22	17:24:57	17:42:41	18:00:08	8:54:00	4.524	-23.313	3
12/16/2020	W	5:37:09	5:54:36	6:12:21	6:48:56	7:22:01		11:48:51		16:15:37	16:48:41	17:25:17	17:43:01	18:00:29	8:53:36	4.036	-23.353	8
12/17/2020	Th	5:37:46	5:55:14	6:12:58	6:49:35	7:22:40		11:49:20		16:15:57	16:49:03	17:25:39	17:43:24	18:00:51	8:53:17	3.544	-23.385	15
12/18/2020	F	5:38:22	5:55:50	6:13:34	6:50:11	7:23:18		11:49:50		16:16:20	16:49:26	17:26:03	17:43:48	18:01:16	8:53:02	3.050	-23.410	23
12/19/2020	Sat	5:38:56	5:56:24	6:14:09	6:50:46	7:23:53		11:50:20		16:16:45	16:49:52	17:26:29	17:44:14	18:01:42	8:52:52	2.554	-23.427	33
12/20/2020	Sun	5:39:28	5:56:56	6:14:41	6:51:19	7:24:26		11:50:49		16:17:13	16:50:20	17:26:57	17:44:42	18:02:11	8:52:47	2.057	-23.436	42
12/21/2020	M	5:39:58	5:57:27	6:15:12	6:51:49	7:24:56		11:51:19		16:17:43	16:50:50	17:27:27	17:45:12	18:02:41	8:52:46	1.559	-23.437	52
12/22/2020	Tu	5:40:27	5:57:55	6:15:40	6:52:18	7:25:25		11:51:49		16:18:15	16:51:22	17:27:59	17:45:44	18:03:12	8:52:50	1.061	-23.430	61
12/23/2020	W	5:40:54	5:58:22	6:16:07	6:52:44	7:25:51		11:52:19		16:18:50	16:51:56	17:28:33	17:46:18	18:03:46	8:52:59	0.564	-23.415	70
12/24/2020	Th	5:41:19	5:58:47	6:16:32	6:53:08	7:26:14		11:52:49		16:19:26	16:52:32	17:29:09	17:46:54	18:04:21	8:53:12	0.068	-23.393	78
12/25/2020	F	5:41:43	5:59:10	6:16:55	6:53:30	7:26:35		11:53:19		16:20:06	16:53:11	17:29:46	17:47:31	18:04:58	8:53:30	-0.427	-23.362	86

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End	End 15-	End Astro-	Length	Noon	Noon	9 PM
		Astro-nomical	15-deg.	Nautical	Civil													
12/26/2020	Sat	5:42:04	5:59:31	6:17:15	6:53:50	7:26:54		11:53:48		16:20:47	16:53:51	17:30:26	17:48:10	18:05:37	8:53:53	-0.919	-23.324	92
12/27/2020	Sun	5:42:23	5:59:50	6:17:34	6:54:07	7:27:10		11:54:17		16:21:30	16:54:33	17:31:07	17:48:50	18:06:17	8:54:21	-1.409	-23.278	96
12/28/2020	M	5:42:41	6:00:07	6:17:50	6:54:23	7:27:24		11:54:47		16:22:16	16:55:17	17:31:49	17:49:33	18:06:59	8:54:52	-1.896	-23.224	99
12/29/2020	Tu	5:42:56	6:00:22	6:18:05	6:54:36	7:27:35		11:55:16		16:23:04	16:56:03	17:32:34	17:50:17	18:07:43	8:55:29	-2.379	-23.163	100
12/30/2020	W	5:43:10	6:00:35	6:18:17	6:54:46	7:27:43		11:55:44		16:23:53	16:56:51	17:33:20	17:51:02	18:08:27	8:56:10	-2.858	-23.093	99
12/31/2020	Th	5:43:21	6:00:46	6:18:27	6:54:55	7:27:50		11:56:13		16:24:45	16:57:40	17:34:07	17:51:49	18:09:14	8:56:55	-3.332	-23.016	96
01/01/2021	F	5:43:31	6:00:55	6:18:35	6:55:01	7:27:53		11:56:41		16:25:38	16:58:31	17:34:57	17:52:37	18:10:02	8:57:45	-3.801	-22.932	90
01/02/2021	Sat	5:43:38	6:01:02	6:18:41	6:55:05	7:27:54		11:57:09		16:26:34	16:59:24	17:35:47	17:53:27	18:10:51	8:58:39	-4.265	-22.840	83
01/03/2021	Sun	5:43:44	6:01:06	6:18:45	6:55:06	7:27:53		11:57:36		16:27:31	17:00:18	17:36:39	17:54:18	18:11:41	8:59:38	-4.723	-22.740	74
01/04/2021	M	5:43:47	6:01:09	6:18:47	6:55:05	7:27:49		11:58:03		16:28:30	17:01:14	17:37:33	17:55:11	18:12:33	9:00:41	-5.174	-22.633	64
01/05/2021	Tu	5:43:48	6:01:09	6:18:46	6:55:02	7:27:43		11:58:30		16:29:30	17:02:11	17:38:28	17:56:05	18:13:26	9:01:48	-5.619	-22.518	53
01/06/2021	W	5:43:47	6:01:07	6:18:43	6:54:56	7:27:34		11:58:56		16:30:33	17:03:10	17:39:24	17:57:00	18:14:20	9:02:59	-6.056	-22.396	41
01/07/2021	Th	5:43:44	6:01:04	6:18:38	6:54:48	7:27:22		11:59:22		16:31:36	17:04:11	17:40:21	17:57:56	18:15:16	9:04:14	-6.486	-22.266	30
01/08/2021	F	5:43:39	6:00:58	6:18:31	6:54:38	7:27:09		11:59:47		16:32:42	17:05:12	17:41:20	17:58:53	18:16:12	9:05:33	-6.907	-22.129	20
01/09/2021	Sat	5:43:32	6:00:49	6:18:22	6:54:25	7:26:52		12:00:12		16:33:48	17:06:15	17:42:20	17:59:52	18:17:10	9:06:56	-7.320	-21.985	12
01/10/2021	Sun	5:43:22	6:00:39	6:18:10	6:54:11	7:26:33		12:00:36		16:34:56	17:07:19	17:43:20	18:00:52	18:18:09	9:08:23	-7.724	-21.834	5
01/11/2021	M	5:43:11	6:00:26	6:17:56	6:53:53	7:26:12		12:01:00		16:36:06	17:08:25	17:44:22	18:01:53	18:19:08	9:09:54	-8.119	-21.675	1
01/12/2021	Tu	5:42:57	6:00:12	6:17:40	6:53:34	7:25:48		12:01:23		16:37:16	17:09:31	17:45:25	18:02:54	18:20:09	9:11:28	-8.503	-21.510	0
01/13/2021	W	5:42:41	5:59:55	6:17:22	6:53:12	7:25:22		12:01:46		16:38:28	17:10:39	17:46:29	18:03:57	18:21:10	9:13:06	-8.877	-21.338	1
01/14/2021	Th	5:42:23	5:59:35	6:17:01	6:52:48	7:24:53		12:02:07		16:39:41	17:11:47	17:47:34	18:05:00	18:22:13	9:14:48	-9.240	-21.159	5
01/15/2021	F	5:42:03	5:59:14	6:16:38	6:52:21	7:24:22		12:02:28		16:40:55	17:12:57	17:48:40	18:06:05	18:23:16	9:16:33	-9.592	-20.973	10
01/16/2021	Sat	5:41:41	5:58:51	6:16:14	6:51:52	7:23:49		12:02:49		16:42:10	17:14:07	17:49:47	18:07:10	18:24:20	9:18:21	-9.932	-20.780	17
01/17/2021	Sun	5:41:16	5:58:25	6:15:46	6:51:21	7:23:13		12:03:09		16:43:26	17:15:18	17:50:54	18:08:16	18:25:25	9:20:13	-10.260	-20.581	25
01/18/2021	M	5:40:50	5:57:57	6:15:17	6:50:48	7:22:35		12:03:27		16:44:43	17:16:30	17:52:02	18:09:22	18:26:30	9:22:07	-10.576	-20.375	34
01/19/2021	Tu	5:40:21	5:57:27	6:14:45	6:50:13	7:21:55		12:03:46		16:46:00	17:17:43	17:53:11	18:10:30	18:27:36	9:24:05	-10.880	-20.163	43
01/20/2021	W	5:39:50	5:56:55	6:14:12	6:49:35	7:21:12		12:04:03		16:47:18	17:18:56	17:54:20	18:11:37	18:28:43	9:26:06	-11.171	-19.945	53
01/21/2021	Th	5:39:17	5:56:20	6:13:36	6:48:55	7:20:27		12:04:20		16:48:37	17:20:10	17:55:30	18:12:46	18:29:50	9:28:10	-11.449	-19.720	62
01/22/2021	F	5:38:41	5:55:44	6:12:58	6:48:13	7:19:40		12:04:36		16:49:57	17:21:25	17:56:40	18:13:55	18:30:58	9:30:16	-11.713	-19.489	71
01/23/2021	Sat	5:38:04	5:55:05	6:12:18	6:47:29	7:18:51		12:04:51		16:51:17	17:22:40	17:57:51	18:15:04	18:32:06	9:32:26	-11.965	-19.253	79
01/24/2021	Sun	5:37:24	5:54:25	6:11:36	6:46:42	7:18:00		12:05:05		16:52:37	17:23:55	17:59:03	18:16:14	18:33:15	9:34:37	-12.203	-19.010	87
01/25/2021	M	5:36:43	5:53:42	6:10:51	6:45:54	7:17:06		12:05:19		16:53:58	17:25:11	18:00:15	18:17:25	18:34:25	9:36:52	-12.428	-18.762	93
01/26/2021	Tu	5:35:59	5:52:57	6:10:05	6:45:04	7:16:11		12:05:31		16:55:20	17:26:28	18:01:27	18:18:36	18:35:34	9:39:09	-12.639	-18.507	97
01/27/2021	W	5:35:14	5:52:10	6:09:17	6:44:11	7:15:13		12:05:43		16:56:41	17:27:44	18:02:40	18:19:47	18:36:45	9:41:28	-12.837	-18.248	99
01/28/2021	Th	5:34:26	5:51:21	6:08:26	6:43:17	7:14:14		12:05:54		16:58:03	17:29:01	18:03:53	18:20:59	18:37:55	9:43:50	-13.021	-17.983	100
01/29/2021	F	5:33:36	5:50:31	6:07:34	6:42:20	7:13:12		12:06:04		16:59:26	17:30:19	18:05:06	18:22:11	18:39:06	9:46:13	-13.191	-17.712	98
01/30/2021	Sat	5:32:44	5:49:38	6:06:40	6:41:22	7:12:09		12:06:14		17:00:48	17:31:37	18:06:20	18:23:23	18:40:17	9:48:39	-13.348	-17.437	93
01/31/2021	Sun	5:31:51	5:48:43	6:05:44	6:40:22	7:11:04		12:06:22		17:02:11	17:32:54	18:07:34	18:24:36	18:41:29	9:51:07	-13.492	-17.156	86
02/01/2021	M	5:30:55	5:47:46	6:04:46	6:39:20	7:09:57		12:06:30		17:03:34	17:34:13	18:08:48	18:25:49	18:42:41	9:53:37	-13.622	-16.870	78
02/02/2021	Tu	5:29:58	5:46:48	6:03:46	6:38:16	7:08:49		12:06:37		17:04:58	17:35:31	18:10:03	18:27:02	18:43:53	9:56:09	-13.739	-16.579	68
02/03/2021	W	5:28:58	5:45:47	6:02:44	6:37:11	7:07:38		12:06:43		17:06:21	17:36:49	18:11:18	18:28:15	18:45:06	9:58:43	-13.843	-16.283	57

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	sun decli-	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight			Noon			Civil Twilight	Nautical Twilight	deg. Twilight		Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)	
02/04/2021	Th	5:27:57	5:44:45	6:01:41	6:36:03	7:06:26		12:06:49		17:07:44	17:38:08	18:12:33	18:29:29	18:46:19	10:01:18	-13.933	-15.983	45
02/05/2021	F	5:26:54	5:43:41	6:00:35	6:34:55	7:05:13		12:06:54		17:09:08	17:39:27	18:13:48	18:30:43	18:47:32	10:03:55	-14.010	-15.678	34
02/06/2021	Sat	5:25:49	5:42:35	5:59:29	6:33:44	7:03:57		12:06:57		17:10:31	17:40:46	18:15:03	18:31:57	18:48:45	10:06:34	-14.075	-15.368	24
02/07/2021	Sun	5:24:42	5:41:28	5:58:20	6:32:32	7:02:40		12:07:00		17:11:55	17:42:05	18:16:18	18:33:11	18:49:59	10:09:14	-14.126	-15.054	15
02/08/2021	M	5:23:33	5:40:19	5:57:09	6:31:18	7:01:22		12:07:03		17:13:18	17:43:24	18:17:34	18:34:26	18:51:12	10:11:56	-14.165	-14.736	8
02/09/2021	Tu	5:22:23	5:39:08	5:55:57	6:30:02	7:00:02		12:07:04		17:14:41	17:44:43	18:18:50	18:35:41	18:52:27	10:14:39	-14.190	-14.414	3
02/10/2021	W	5:21:11	5:37:55	5:54:44	6:28:46	6:58:41		12:07:05		17:16:05	17:46:02	18:20:05	18:36:55	18:53:41	10:17:24	-14.203	-14.088	1
02/11/2021	Th	5:19:57	5:36:41	5:53:28	6:27:27	6:57:18		12:07:05		17:17:28	17:47:20	18:21:21	18:38:10	18:54:55	10:20:09	-14.203	-13.758	0
02/12/2021	F	5:18:42	5:35:25	5:52:12	6:26:07	6:55:54		12:07:04		17:18:51	17:48:39	18:22:37	18:39:25	18:56:10	10:22:56	-14.190	-13.424	2
02/13/2021	Sat	5:17:25	5:34:07	5:50:53	6:24:46	6:54:29		12:07:03		17:20:13	17:49:58	18:23:53	18:40:40	18:57:25	10:25:45	-14.165	-13.086	6
02/14/2021	Sun	5:16:06	5:32:48	5:49:33	6:23:23	6:53:02		12:07:01		17:21:36	17:51:17	18:25:09	18:41:56	18:58:40	10:28:34	-14.127	-12.745	12
02/15/2021	M	5:14:45	5:31:27	5:48:12	6:21:59	6:51:34		12:06:58		17:22:58	17:52:35	18:26:25	18:43:11	18:59:55	10:31:24	-14.077	-12.400	19
02/16/2021	Tu	5:13:23	5:30:05	5:46:49	6:20:34	6:50:05		12:06:54		17:24:21	17:53:54	18:27:41	18:44:26	19:01:10	10:34:15	-14.015	-12.052	26
02/17/2021	W	5:12:00	5:28:41	5:45:25	6:19:07	6:48:35		12:06:49		17:25:42	17:55:12	18:28:57	18:45:42	19:02:25	10:37:08	-13.941	-11.701	35
02/18/2021	Th	5:10:35	5:27:16	5:43:59	6:17:39	6:47:03		12:06:44		17:27:04	17:56:30	18:30:13	18:46:57	19:03:41	10:40:01	-13.855	-11.347	44
02/19/2021	F	5:09:08	5:25:49	5:42:32	6:16:09	6:45:30		12:06:38		17:28:25	17:57:48	18:31:29	18:48:13	19:04:56	10:42:55	-13.758	-10.990	54
02/20/2021	Sat	5:07:40	5:24:21	5:41:03	6:14:39	6:43:57		12:06:32		17:29:46	17:59:06	18:32:45	18:49:28	19:06:12	10:45:50	-13.649	-10.630	63
02/21/2021	Sun	5:06:10	5:22:52	5:39:34	6:13:07	6:42:22		12:06:25		17:31:07	18:00:24	18:34:01	18:50:44	19:07:28	10:48:45	-13.530	-10.267	72
02/22/2021	M	5:04:39	5:21:21	5:38:03	6:11:35	6:40:46		12:06:17		17:32:28	18:01:41	18:35:16	18:52:00	19:08:44	10:51:41	-13.399	-9.902	81
02/23/2021	Tu	5:03:07	5:19:49	5:36:30	6:10:01	6:39:09		12:06:08		17:33:48	18:02:59	18:36:32	18:53:16	19:10:00	10:54:38	-13.258	-9.534	88
02/24/2021	W	5:01:33	5:18:15	5:34:57	6:08:26	6:37:32		12:05:59		17:35:08	18:04:16	18:37:48	18:54:32	19:11:17	10:57:36	-13.108	-9.164	94
02/25/2021	Th	4:59:57	5:16:41	5:33:22	6:06:50	6:35:53		12:05:50		17:36:27	18:05:33	18:39:04	18:55:47	19:12:33	11:00:34	-12.947	-8.792	98
02/26/2021	F	4:58:21	5:15:05	5:31:46	6:05:13	6:34:14		12:05:40		17:37:46	18:06:50	18:40:20	18:57:04	19:13:50	11:03:33	-12.776	-8.418	100
02/27/2021	Sat	4:56:43	5:13:28	5:30:10	6:03:35	6:32:34		12:05:29		17:39:05	18:08:07	18:41:36	18:58:20	19:15:07	11:06:32	-12.597	-8.041	99
02/28/2021	Sun	4:55:04	5:11:49	5:28:32	6:01:56	6:30:53		12:05:17		17:40:24	18:09:23	18:42:52	18:59:36	19:16:24	11:09:31	-12.409	-7.663	95
03/01/2021	M	4:53:24	5:10:10	5:26:52	6:00:17	6:29:11		12:05:06		17:41:42	18:10:40	18:44:08	19:00:52	19:17:41	11:12:31	-12.212	-7.282	89
03/02/2021	Tu	4:51:42	5:08:29	5:25:12	5:58:36	6:27:29		12:04:53		17:43:01	18:11:56	18:45:23	19:02:09	19:18:59	11:15:32	-12.008	-6.900	81
03/03/2021	W	4:49:59	5:06:48	5:23:31	5:56:55	6:25:46		12:04:41		17:44:18	18:13:12	18:46:40	19:03:26	19:20:17	11:18:33	-11.795	-6.516	71
03/04/2021	Th	4:48:15	5:05:05	5:21:49	5:55:13	6:24:02		12:04:27		17:45:36	18:14:28	18:47:56	19:04:42	19:21:35	11:21:34	-11.576	-6.131	60
03/05/2021	F	4:46:30	5:03:21	5:20:06	5:53:30	6:22:18		12:04:14		17:46:53	18:15:44	18:49:12	19:06:00	19:22:54	11:24:36	-11.349	-5.744	49
03/06/2021	Sat	4:44:44	5:01:37	5:18:23	5:51:46	6:20:33		12:04:00		17:48:11	18:17:00	18:50:28	19:07:17	19:24:12	11:27:38	-11.116	-5.356	38
03/07/2021	Sun	4:42:57	4:59:51	5:16:38	5:50:02	6:18:47		12:03:46		17:49:27	18:18:16	18:51:45	19:08:34	19:25:32	11:30:40	-10.877	-4.967	28
03/08/2021	M	4:41:09	4:58:04	5:14:52	5:48:17	6:17:02		12:03:31		17:50:44	18:19:32	18:53:01	19:09:52	19:26:51	11:33:43	-10.631	-4.577	19
03/09/2021	Tu	4:39:19	4:56:17	5:13:06	5:46:32	6:15:15		12:03:16		17:52:01	18:20:47	18:54:18	19:11:10	19:28:11	11:36:45	-10.380	-4.185	11
03/10/2021	W	4:37:29	4:54:28	5:11:19	5:44:46	6:13:28		12:03:00		17:53:17	18:22:03	18:55:34	19:12:28	19:29:31	11:39:48	-10.123	-3.793	5
03/11/2021	Th	4:35:38	4:52:39	5:09:31	5:42:59	6:11:41		12:02:45		17:54:33	18:23:19	18:56:51	19:13:46	19:30:51	11:42:51	-9.862	-3.400	2
03/12/2021	F	4:33:46	4:50:49	5:07:43	5:41:12	6:09:54		12:02:29		17:55:49	18:24:34	18:58:08	19:15:05	19:32:12	11:45:55	-9.595	-3.006	0
03/13/2021	Sat	4:31:52	4:48:58	5:05:53	5:39:24	6:08:06		12:02:12		17:57:04	18:25:50	18:59:26	19:16:24	19:33:33	11:48:58	-9.324	-2.612	1
03/14/2021	Sun*	5:29:58	5:47:07	6:04:03	6:37:36	7:06:18		13:01:56		18:58:19	19:27:05	20:00:43	20:17:43	20:34:55	11:52:02	-9.048	-2.217	3
03/15/2021	M*	5:28:03	5:45:14	6:02:13	6:35:47	7:04:29		13:01:39		18:59:35	19:28:20	20:02:00	20:19:02	20:36:17	11:55:05	-8.768	-1.822	7

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	9 PM		
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight						End Civil Twilight	Nautical Twilight	deg. Twilight		Eqn Time (min.)	sun decli- nation (deg.)	Lunar Illum. (pct.)	
03/16/2021	Tu*	5:26:08	5:43:21	6:00:22	6:33:58	7:02:40		13:01:22		19:00:49	19:29:36	20:03:18	20:20:22	20:37:40	11:58:09	-8.485	-1.427	13
03/17/2021	W*	5:24:11	5:41:27	5:58:30	6:32:09	7:00:52		13:01:05		19:02:04	19:30:51	20:04:36	20:21:42	20:39:02	12:01:13	-8.198	-1.032	19
03/18/2021	Th*	5:22:13	5:39:33	5:56:37	6:30:19	6:59:02		13:00:47		19:03:19	19:32:06	20:05:54	20:23:02	20:40:26	12:04:16	-7.908	-0.636	27
03/19/2021	F*	5:20:15	5:37:37	5:54:45	6:28:29	6:57:13		13:00:30		19:04:33	19:33:21	20:07:12	20:24:23	20:41:49	12:07:20	-7.615	-0.241	36
03/20/2021	Sat*	5:18:16	5:35:41	5:52:51	6:26:39	6:55:24	7:01:51	13:00:12	18:57:09	19:05:47	19:34:36	20:08:30	20:25:44	20:43:14	12:10:24	-7.319	0.155	45
03/21/2021	Sun*	5:16:16	5:33:45	5:50:57	6:24:48	6:53:34	7:03:11	12:59:54	18:55:14	19:07:01	19:35:52	20:09:49	20:27:05	20:44:38	12:13:27	-7.022	0.549	55
03/22/2021	M*	5:14:16	5:31:48	5:49:03	6:22:57	6:51:44	7:04:30	12:59:36	18:53:18	19:08:15	19:37:07	20:11:08	20:28:27	20:46:04	12:16:31	-6.722	0.944	65
03/23/2021	Tu*	5:12:15	5:29:50	5:47:08	6:21:06	6:49:55	7:05:50	12:59:18	18:51:23	19:09:29	19:38:22	20:12:27	20:29:49	20:47:29	12:19:34	-6.421	1.338	74
03/24/2021	W*	5:10:13	5:27:52	5:45:13	6:19:15	6:48:05	7:07:09	12:59:00	18:49:27	19:10:42	19:39:37	20:13:46	20:31:11	20:48:56	12:22:37	-6.119	1.731	83
03/25/2021	Th*	5:08:10	5:25:54	5:43:18	6:17:23	6:46:15	7:08:29	12:58:42	18:47:32	19:11:56	19:40:53	20:15:05	20:32:34	20:50:22	12:25:40	-5.816	2.124	90
03/26/2021	F*	5:06:07	5:23:55	5:41:22	6:15:32	6:44:26	7:09:48	12:58:24	18:45:36	19:13:09	19:42:08	20:16:25	20:33:57	20:51:50	12:28:43	-5.513	2.516	96
03/27/2021	Sat*	5:04:03	5:21:55	5:39:26	6:13:40	6:42:36	7:11:07	12:58:06	18:43:41	19:14:22	19:43:23	20:17:45	20:35:20	20:53:18	12:31:46	-5.210	2.907	99
03/28/2021	Sun*	5:01:59	5:19:56	5:37:29	6:11:49	6:40:47	7:12:26	12:57:47	18:41:46	19:15:36	19:44:39	20:19:06	20:36:44	20:54:46	12:34:49	-4.907	3.297	100
03/29/2021	M*	4:59:54	5:17:55	5:35:33	6:09:57	6:38:58	7:13:45	12:57:29	18:39:52	19:16:49	19:45:54	20:20:26	20:38:08	20:56:15	12:37:51	-4.604	3.686	97
03/30/2021	Tu*	4:57:49	5:15:55	5:33:36	6:08:06	6:37:09	7:15:03	12:57:11	18:37:57	19:18:02	19:47:10	20:21:47	20:39:33	20:57:45	12:40:53	-4.303	4.074	92
03/31/2021	W*	4:55:43	5:13:54	5:31:39	6:06:14	6:35:20	7:16:22	12:56:53	18:36:03	19:19:15	19:48:26	20:23:09	20:40:59	20:59:15	12:43:55	-4.004	4.461	84
04/01/2021	Th*	4:53:37	5:11:53	5:29:42	6:04:23	6:33:31	7:17:41	12:56:35	18:34:09	19:20:28	19:49:42	20:24:30	20:42:25	21:00:47	12:46:56	-3.706	4.846	75
04/02/2021	F*	4:51:31	5:09:52	5:27:45	6:02:31	6:31:43	7:18:59	12:56:18	18:32:16	19:21:41	19:50:58	20:25:53	20:43:51	21:02:18	12:49:57	-3.411	5.230	64
04/03/2021	Sat*	4:49:24	5:07:50	5:25:48	6:00:40	6:29:55	7:20:18	12:56:00	18:30:23	19:22:54	19:52:14	20:27:15	20:45:18	21:03:51	12:52:58	-3.119	5.613	53
04/04/2021	Easter*	4:47:16	5:05:48	5:23:50	5:58:49	6:28:08	7:21:36	12:55:43	18:28:30	19:24:06	19:53:31	20:28:38	20:46:45	21:05:24	12:55:59	-2.829	5.993	42
04/05/2021	M*	4:45:09	5:03:47	5:21:53	5:56:59	6:26:20	7:22:55	12:55:26	18:26:38	19:25:19	19:54:47	20:30:01	20:48:13	21:06:58	12:58:59	-2.543	6.373	32
04/06/2021	Tu*	4:43:01	5:01:45	5:19:56	5:55:08	6:24:34	7:24:13	12:55:09	18:24:47	19:26:32	19:56:04	20:31:25	20:49:42	21:08:33	13:01:59	-2.260	6.750	23
04/07/2021	W*	4:40:52	4:59:42	5:17:59	5:53:18	6:22:47	7:25:32	12:54:52	18:22:56	19:27:45	19:57:21	20:32:49	20:51:11	21:10:09	13:04:58	-1.981	7.125	15
04/08/2021	Th*	4:38:44	4:57:40	5:16:02	5:51:28	6:21:01	7:26:50	12:54:35	18:21:05	19:28:58	19:58:38	20:34:13	20:52:41	21:11:45	13:07:57	-1.707	7.499	9
04/09/2021	F*	4:36:35	4:55:38	5:14:05	5:49:38	6:19:16	7:28:09	12:54:19	18:19:15	19:30:11	19:59:55	20:35:38	20:54:11	21:13:22	13:10:56	-1.436	7.870	4
04/10/2021	Sat*	4:34:26	4:53:36	5:12:08	5:47:49	6:17:31	7:29:27	12:54:03	18:17:26	19:31:24	20:01:12	20:37:04	20:55:42	21:15:00	13:13:53	-1.170	8.239	1
04/11/2021	Sun*	4:32:17	4:51:34	5:10:11	5:46:00	6:15:47	7:30:46	12:53:48	18:15:37	19:32:37	20:02:30	20:38:29	20:57:13	21:16:38	13:16:51	-0.909	8.606	0
04/12/2021	M*	4:30:07	4:49:32	5:08:15	5:44:12	6:14:03	7:32:04	12:53:32	18:13:49	19:33:50	20:03:48	20:39:55	20:58:45	21:18:17	13:19:48	-0.654	8.971	1
04/13/2021	Tu*	4:27:58	4:47:29	5:06:18	5:42:24	6:12:20	7:33:22	12:53:17	18:12:01	19:35:03	20:05:06	20:41:22	21:00:17	21:19:57	13:22:44	-0.403	9.333	4
04/14/2021	W*	4:25:48	4:45:28	5:04:22	5:40:37	6:10:37	7:34:41	12:53:02	18:10:15	19:36:16	20:06:24	20:42:48	21:01:50	21:21:38	13:25:39	-0.158	9.692	8
04/15/2021	Th*	4:23:38	4:43:26	5:02:27	5:38:50	6:08:56	7:35:59	12:52:48	18:08:29	19:37:29	20:07:42	20:44:16	21:03:24	21:23:20	13:28:34	0.082	10.049	14
04/16/2021	F*	4:21:29	4:41:24	5:00:31	5:37:04	6:07:15	7:37:17	12:52:34	18:06:44	19:38:42	20:09:00	20:45:43	21:04:58	21:25:02	13:31:28	0.316	10.403	21
04/17/2021	Sat*	4:19:19	4:39:23	4:58:37	5:35:18	6:05:34	7:38:35	12:52:20	18:04:59	19:39:55	20:10:18	20:47:11	21:06:32	21:26:45	13:34:21	0.543	10.754	29
04/18/2021	Sun*	4:17:09	4:37:22	4:56:42	5:33:33	6:03:55	7:39:53	12:52:07	18:03:16	19:41:08	20:11:37	20:48:39	21:08:07	21:28:29	13:37:14	0.765	11.102	39
04/19/2021	M*	4:15:00	4:35:21	4:54:48	5:31:49	6:02:16	7:41:11	12:51:54	18:01:33	19:42:21	20:12:55	20:50:08	21:09:42	21:30:13	13:40:05	0.979	11.447	48
04/20/2021	Tu*	4:12:50	4:33:20	4:52:54	5:30:05	6:00:38	7:42:29	12:51:42	17:59:52	19:43:34	20:14:14	20:51:36	21:11:18	21:31:58	13:42:56	1.187	11.789	59
04/21/2021	W*	4:10:41	4:31:20	4:51:01	5:28:22	5:59:01	7:43:47	12:51:30	17:58:11	19:44:47	20:15:33	20:53:05	21:12:55	21:33:44	13:45:46	1.388	12.127	69
04/22/2021	Th*	4:08:31	4:29:20	4:49:09	5:26:40	5:57:25	7:45:05	12:51:18	17:56:32	19:45:59	20:16:51	20:54:35	21:14:31	21:35:31	13:48:34	1.582	12.463	78
04/23/2021	F*	4:06:22	4:27:21	4:47:17	5:24:59	5:55:50	7:46:22	12:51:07	17:54:53	19:47:12	20:18:10	20:56:04	21:16:09	21:37:18	13:51:22	1.769	12.794	87
04/24/2021	Sat*	4:04:13	4:25:22	4:45:26	5:23:19	5:54:16	7:47:40	12:50:56	17:53:15	19:48:25	20:19:29	20:57:34	21:17:46	21:39:06	13:54:09	1.948	13.123	94

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	sun decli-	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight						End Twilight	End 15- deg. Twilight	End Astro- nomical Twilight					Eqn Time (min.)
04/25/2021	Sun*	4:02:05	4:23:24	4:43:35	5:21:39	5:52:43	7:48:57	12:50:46	17:51:39	19:49:37	20:20:48	20:59:04	21:19:24	21:40:54	13:56:54	2.119	13.447	98
04/26/2021	M*	3:59:57	4:21:26	4:41:46	5:20:01	5:51:11	7:50:14	12:50:36	17:50:04	19:50:49	20:22:07	21:00:34	21:21:02	21:42:43	13:59:39	2.282	13.768	100
04/27/2021	Tu*	3:57:49	4:19:29	4:39:57	5:18:23	5:49:40	7:51:31	12:50:27	17:48:30	19:52:01	20:23:26	21:02:05	21:22:41	21:44:33	14:02:22	2.437	14.085	99
04/28/2021	W*	3:55:41	4:17:32	4:38:09	5:16:47	5:48:10	7:52:48	12:50:18	17:46:57	19:53:14	20:24:44	21:03:35	21:24:20	21:46:23	14:05:04	2.583	14.399	94
04/29/2021	Th*	3:53:34	4:15:37	4:36:21	5:15:11	5:46:41	7:54:04	12:50:10	17:45:25	19:54:26	20:26:03	21:05:06	21:26:00	21:48:14	14:07:44	2.721	14.708	87
04/30/2021	F*	3:51:27	4:13:42	4:34:35	5:13:37	5:45:14	7:55:21	12:50:02	17:43:55	19:55:37	20:27:22	21:06:37	21:27:39	21:50:06	14:10:24	2.849	15.013	78
05/01/2021	Sat*	3:49:21	4:11:48	4:32:50	5:12:04	5:43:47	7:56:37	12:49:55	17:42:26	19:56:49	20:28:41	21:08:08	21:29:19	21:51:58	14:13:02	2.969	15.314	68
05/02/2021	Sun*	3:47:16	4:09:54	4:31:05	5:10:31	5:42:22	7:57:53	12:49:48	17:40:59	19:58:00	20:29:59	21:09:39	21:30:59	21:53:50	14:15:38	3.078	15.612	58
05/03/2021	M*	3:45:11	4:08:02	4:29:22	5:09:01	5:40:59	7:59:08	12:49:42	17:39:33	19:59:12	20:31:18	21:11:10	21:32:40	21:55:43	14:18:13	3.179	15.904	47
05/04/2021	Tu*	3:43:07	4:06:10	4:27:40	5:07:31	5:39:36	8:00:24	12:49:37	17:38:08	20:00:23	20:32:36	21:12:41	21:34:20	21:57:37	14:20:46	3.270	16.193	37
05/05/2021	W*	3:41:04	4:04:20	4:25:59	5:06:03	5:38:15	8:01:39	12:49:32	17:36:45	20:01:33	20:33:54	21:14:12	21:36:01	21:59:30	14:23:18	3.351	16.477	27
05/06/2021	Th*	3:39:01	4:02:31	4:24:19	5:04:36	5:36:56	8:02:54	12:49:28	17:35:23	20:02:44	20:35:12	21:15:43	21:37:41	22:01:24	14:25:48	3.423	16.756	19
05/07/2021	F*	3:36:59	4:00:42	4:22:40	5:03:11	5:35:38	8:04:08	12:49:24	17:34:03	20:03:54	20:36:30	21:17:14	21:39:22	22:03:19	14:28:16	3.485	17.031	12
05/08/2021	Sat*	3:34:59	3:58:55	4:21:03	5:01:47	5:34:21	8:05:22	12:49:21	17:32:45	20:05:04	20:37:47	21:18:44	21:41:02	22:05:13	14:30:43	3.538	17.301	6
05/09/2021	Sun*	3:32:59	3:57:09	4:19:27	5:00:24	5:33:06	8:06:35	12:49:18	17:31:28	20:06:13	20:39:04	21:20:15	21:42:43	22:07:08	14:33:07	3.580	17.566	3
05/10/2021	M*	3:31:00	3:55:25	4:17:53	4:59:03	5:31:53	8:07:48	12:49:16	17:30:13	20:07:22	20:40:20	21:21:45	21:44:23	22:09:03	14:35:30	3.613	17.826	0
05/11/2021	Tu*	3:29:02	3:53:42	4:16:20	4:57:44	5:30:41	8:09:01	12:49:15	17:28:59	20:08:31	20:41:37	21:23:14	21:46:03	22:10:58	14:37:50	3.637	18.082	0
05/12/2021	W*	3:27:06	3:52:00	4:14:48	4:56:26	5:29:31	8:10:13	12:49:14	17:27:47	20:09:39	20:42:52	21:24:44	21:47:43	22:12:52	14:40:08	3.651	18.332	2
05/13/2021	Th*	3:25:10	3:50:20	4:13:18	4:55:10	5:28:22	8:11:24	12:49:14	17:26:37	20:10:47	20:44:07	21:26:12	21:49:22	22:14:47	14:42:24	3.655	18.577	5
05/14/2021	F*	3:23:16	3:48:41	4:11:50	4:53:55	5:27:15	8:12:34	12:49:14	17:25:29	20:11:53	20:45:22	21:27:41	21:51:01	22:16:41	14:44:38	3.650	18.817	10
05/15/2021	Sat*	3:21:24	3:47:04	4:10:24	4:52:42	5:26:10	8:13:44	12:49:15	17:24:23	20:13:00	20:46:36	21:29:08	21:52:39	22:18:35	14:46:50	3.636	19.052	16
05/16/2021	Sun*	3:19:33	3:45:29	4:08:59	4:51:31	5:25:06	8:14:53	12:49:16	17:23:18	20:14:05	20:47:49	21:30:35	21:54:16	22:20:28	14:48:59	3.613	19.281	24
05/17/2021	M*	3:17:43	3:43:55	4:07:36	4:50:22	5:24:05	8:16:01	12:49:18	17:22:15	20:15:10	20:49:01	21:32:01	21:55:53	22:22:21	14:51:06	3.580	19.505	33
05/18/2021	Tu*	3:15:55	3:42:23	4:06:15	4:49:14	5:23:05	8:17:09	12:49:21	17:21:15	20:16:14	20:50:13	21:33:26	21:57:29	22:24:14	14:53:10	3.539	19.723	43
05/19/2021	W*	3:14:09	3:40:53	4:04:56	4:48:09	5:22:07	8:18:15	12:49:24	17:20:16	20:17:18	20:51:23	21:34:51	21:59:04	22:26:05	14:55:11	3.489	19.935	54
05/20/2021	Th*	3:12:24	3:39:25	4:03:38	4:47:05	5:21:11	8:19:21	12:49:27	17:19:19	20:18:20	20:52:33	21:36:14	22:00:38	22:27:56	14:57:10	3.430	20.142	64
05/21/2021	F*	3:10:42	3:37:59	4:02:23	4:46:04	5:20:16	8:20:25	12:49:31	17:18:25	20:19:22	20:53:42	21:37:36	22:02:11	22:29:46	14:59:06	3.362	20.343	75
05/22/2021	Sat*	3:09:01	3:36:35	4:01:10	4:45:04	5:19:24	8:21:29	12:49:36	17:17:32	20:20:23	20:54:50	21:38:57	22:03:43	22:31:34	15:00:59	3.286	20.539	84
05/23/2021	Sun*	3:07:23	3:35:14	3:59:59	4:44:07	5:18:34	8:22:31	12:49:41	17:16:41	20:21:22	20:55:57	21:40:17	22:05:14	22:33:21	15:02:49	3.202	20.728	92
05/24/2021	M*	3:05:47	3:33:54	3:58:51	4:43:11	5:17:45	8:23:32	12:49:46	17:15:53	20:22:21	20:57:02	21:41:36	22:06:43	22:35:08	15:04:36	3.109	20.911	97
05/25/2021	Tu*	3:04:13	3:32:37	3:57:44	4:42:18	5:16:59	8:24:32	12:49:52	17:15:07	20:23:18	20:58:06	21:42:53	22:08:11	22:36:52	15:06:20	3.008	21.089	100
05/26/2021	W*	3:02:41	3:31:23	3:56:40	4:41:27	5:16:14	8:25:31	12:49:59	17:14:22	20:24:15	20:59:10	21:44:09	22:09:37	22:38:35	15:08:01	2.900	21.260	99
05/27/2021	Th*	3:01:13	3:30:11	3:55:39	4:40:38	5:15:32	8:26:29	12:50:06	17:13:40	20:25:10	21:00:11	21:45:23	22:11:01	22:40:16	15:09:38	2.783	21.425	96
05/28/2021	F*	2:59:46	3:29:01	3:54:39	4:39:51	5:14:52	8:27:25	12:50:13	17:13:01	20:26:04	21:01:12	21:46:36	22:12:24	22:41:56	15:11:13	2.659	21.584	90
05/29/2021	Sat*	2:58:23	3:27:54	3:53:43	4:39:06	5:14:14	8:28:20	12:50:21	17:12:23	20:26:57	21:02:11	21:47:47	22:13:45	22:43:33	15:12:44	2.527	21.737	82
05/30/2021	Sun*	2:57:02	3:26:50	3:52:49	4:38:24	5:13:38	8:29:13	12:50:30	17:11:48	20:27:49	21:03:09	21:48:56	22:15:04	22:45:08	15:14:11	2.387	21.884	72
05/31/2021	M*	2:55:45	3:25:49	3:51:57	4:37:44	5:13:04	8:30:05	12:50:39	17:11:15	20:28:39	21:04:05	21:50:03	22:16:21	22:46:41	15:15:35	2.241	22.024	62
06/01/2021	Tu*	2:54:31	3:24:51	3:51:09	4:37:07	5:12:32	8:30:56	12:50:48	17:10:45	20:29:28	21:04:59	21:51:09	22:17:36	22:48:12	15:16:56	2.087	22.158	52
06/02/2021	W*	2:53:20	3:23:56	3:50:23	4:36:32	5:12:03	8:31:45	12:50:57	17:10:16	20:30:16	21:05:52	21:52:12	22:18:48	22:49:40	15:18:13	1.927	22.285	42
06/03/2021	Th*	2:52:12	3:23:04	3:49:40	4:35:59	5:11:36	8:32:32	12:51:07	17:09:50	20:31:02	21:06:44	21:53:13	22:19:58	22:51:05	15:19:26	1.760	22.406	32

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local Noon	Sun West	Sunset	End	End 15-	End Astro-	Length of Day	Noon	noon decli-	9 PM	
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight						End Nautical Twilight	deg. Twilight	nomical Twilight		Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)	
06/04/2021	F*	2:51:08	3:22:15	3:48:59	4:35:29	5:11:11	8:33:18	12:51:18	17:09:27	20:31:46	21:07:33	21:54:12	22:21:06	22:52:27	15:20:35	1.587	22.521	24
06/05/2021	Sat*	2:50:08	3:21:29	3:48:22	4:35:01	5:10:48	8:34:02	12:51:28	17:09:06	20:32:29	21:08:21	21:55:09	22:22:10	22:53:46	15:21:41	1.409	22.629	16
06/06/2021	Sun*	2:49:12	3:20:47	3:47:48	4:34:36	5:10:28	8:34:44	12:51:40	17:08:47	20:33:11	21:09:07	21:56:04	22:23:13	22:55:01	15:22:43	1.224	22.730	10
06/07/2021	M*	2:48:19	3:20:08	3:47:16	4:34:14	5:10:09	8:35:25	12:51:51	17:08:30	20:33:50	21:09:50	21:56:56	22:24:12	22:56:13	15:23:41	1.035	22.825	5
06/08/2021	Tu*	2:47:31	3:19:32	3:46:48	4:33:53	5:09:53	8:36:04	12:52:03	17:08:16	20:34:28	21:10:32	21:57:46	22:25:08	22:57:22	15:24:35	0.841	22.913	2
06/09/2021	W*	2:46:46	3:19:00	3:46:23	4:33:36	5:09:40	8:36:40	12:52:14	17:08:05	20:35:04	21:11:12	21:58:32	22:26:02	22:58:27	15:25:25	0.643	22.994	0
06/10/2021	Th*	2:46:06	3:18:31	3:46:00	4:33:21	5:09:28	8:37:15	12:52:27	17:07:55	20:35:39	21:11:50	21:59:17	22:26:52	22:59:28	15:26:11	0.441	23.068	0
06/11/2021	F*	2:45:31	3:18:06	3:45:41	4:33:08	5:09:19	8:37:48	12:52:39	17:07:48	20:36:11	21:12:25	21:59:58	22:27:39	23:00:24	15:26:52	0.236	23.136	3
06/12/2021	Sat*	2:44:59	3:17:45	3:45:25	4:32:58	5:09:12	8:38:19	12:52:51	17:07:44	20:36:42	21:12:59	22:00:37	22:28:22	23:01:17	15:27:30	0.027	23.197	7
06/13/2021	Sun*	2:44:33	3:17:27	3:45:12	4:32:51	5:09:07	8:38:47	12:53:04	17:07:41	20:37:11	21:13:30	22:01:13	22:29:03	23:02:05	15:28:03	-0.184	23.251	13
06/14/2021	M*	2:44:11	3:17:13	3:45:03	4:32:46	5:09:05	8:39:14	12:53:17	17:07:41	20:37:38	21:13:59	22:01:46	22:29:39	23:02:49	15:28:33	-0.397	23.298	20
06/15/2021	Tu*	2:43:53	3:17:03	3:44:56	4:32:43	5:09:05	8:39:38	12:53:30	17:07:44	20:38:02	21:14:25	22:02:16	22:30:13	23:03:28	15:28:58	-0.612	23.339	29
06/16/2021	W*	2:43:41	3:16:56	3:44:52	4:32:43	5:09:06	8:40:00	12:53:43	17:07:48	20:38:25	21:14:49	22:02:43	22:30:42	23:04:02	15:29:18	-0.828	23.372	39
06/17/2021	Th*	2:43:33	3:16:53	3:44:52	4:32:46	5:09:11	8:40:20	12:53:56	17:07:55	20:38:45	21:15:11	22:03:07	22:31:08	23:04:32	15:29:35	-1.045	23.399	50
06/18/2021	F*	2:43:30	3:16:54	3:44:55	4:32:51	5:09:17	8:40:38	12:54:09	17:08:05	20:39:04	21:15:30	22:03:28	22:31:30	23:04:57	15:29:47	-1.262	23.418	61
06/19/2021	Sat*	2:43:32	3:16:59	3:45:01	4:32:59	5:09:25	8:40:53	12:54:22	17:08:16	20:39:20	21:15:47	22:03:46	22:31:49	23:05:17	15:29:55	-1.480	23.431	72
06/20/2021	Sun*	2:43:39	3:17:07	3:45:10	4:33:09	5:09:36	8:41:06	12:54:35	17:08:30	20:39:34	21:16:01	22:04:00	22:32:04	23:05:32	15:29:59	-1.697	23.437	82
06/21/2021	M*	2:43:50	3:17:19	3:45:23	4:33:21	5:09:48	8:41:17	12:54:48	17:08:46	20:39:46	21:16:13	22:04:11	22:32:15	23:05:42	15:29:58	-1.913	23.436	90
06/22/2021	Tu*	2:44:07	3:17:35	3:45:38	4:33:36	5:10:03	8:41:25	12:55:01	17:09:04	20:39:56	21:16:22	22:04:20	22:32:22	23:05:48	15:29:53	-2.128	23.428	96
06/23/2021	W*	2:44:28	3:17:54	3:45:56	4:33:54	5:10:20	8:41:31	12:55:14	17:09:24	20:40:04	21:16:29	22:04:24	22:32:25	23:05:48	15:29:44	-2.342	23.413	99
06/24/2021	Th*	2:44:54	3:18:17	3:46:18	4:34:13	5:10:39	8:41:35	12:55:26	17:09:46	20:40:09	21:16:33	22:04:26	22:32:24	23:05:43	15:29:30	-2.555	23.392	100
06/25/2021	F*	2:45:25	3:18:44	3:46:42	4:34:35	5:10:59	8:41:36	12:55:39	17:10:11	20:40:12	21:16:35	22:04:25	22:32:20	23:05:34	15:29:13	-2.765	23.363	97
06/26/2021	Sat*	2:46:00	3:19:14	3:47:10	4:35:00	5:11:22	8:41:35	12:55:51	17:10:37	20:40:13	21:16:34	22:04:20	22:32:12	23:05:19	15:28:51	-2.973	23.328	92
06/27/2021	Sun*	2:46:40	3:19:48	3:47:40	4:35:26	5:11:47	8:41:32	12:56:04	17:11:06	20:40:11	21:16:30	22:04:12	22:32:00	23:05:00	15:28:24	-3.178	23.286	85
06/28/2021	M*	2:47:24	3:20:25	3:48:13	4:35:55	5:12:14	8:41:26	12:56:16	17:11:37	20:40:08	21:16:24	22:04:01	22:31:44	23:04:37	15:27:54	-3.381	23.237	77
06/29/2021	Tu*	2:48:13	3:21:05	3:48:49	4:36:26	5:12:42	8:41:18	12:56:28	17:12:09	20:40:02	21:16:15	22:03:46	22:31:25	23:04:08	15:27:20	-3.580	23.181	67
06/30/2021	W*	2:49:06	3:21:49	3:49:28	4:36:59	5:13:13	8:41:07	12:56:40	17:12:43	20:39:53	21:16:04	22:03:29	22:31:02	23:03:35	15:26:41	-3.776	23.119	58
07/01/2021	Th*	2:50:03	3:22:36	3:50:09	4:37:35	5:13:45	8:40:54	12:56:51	17:13:20	20:39:43	21:15:50	22:03:08	22:30:36	23:02:58	15:25:58	-3.968	23.049	48
07/02/2021	F*	2:51:04	3:23:26	3:50:53	4:38:12	5:14:19	8:40:39	12:57:02	17:13:58	20:39:30	21:15:33	22:02:44	22:30:05	23:02:16	15:25:11	-4.156	22.973	38
07/03/2021	Sat*	2:52:09	3:24:19	3:51:40	4:38:51	5:14:55	8:40:21	12:57:13	17:14:38	20:39:15	21:15:14	22:02:18	22:29:32	23:01:30	15:24:20	-4.339	22.891	29
07/04/2021	Sun*	2:53:17	3:25:15	3:52:29	4:39:33	5:15:32	8:40:01	12:57:24	17:15:20	20:38:58	21:14:53	22:01:48	22:28:55	23:00:40	15:23:26	-4.517	22.801	21
07/05/2021	M*	2:54:29	3:26:14	3:53:21	4:40:16	5:16:11	8:39:38	12:57:34	17:16:03	20:38:38	21:14:29	22:01:15	22:28:14	22:59:46	15:22:27	-4.690	22.706	14
07/06/2021	Tu*	2:55:44	3:27:16	3:54:15	4:41:01	5:16:52	8:39:13	12:57:44	17:16:48	20:38:16	21:14:02	22:00:39	22:27:30	22:58:48	15:21:24	-4.857	22.603	8
07/07/2021	W*	2:57:03	3:28:20	3:55:11	4:41:48	5:17:34	8:38:46	12:57:54	17:17:35	20:37:52	21:13:33	22:00:00	22:26:43	22:57:46	15:20:18	-5.018	22.494	4
07/08/2021	Th*	2:58:24	3:29:27	3:56:10	4:42:37	5:18:18	8:38:16	12:58:03	17:18:23	20:37:26	21:13:01	21:59:18	22:25:52	22:56:40	15:19:08	-5.173	22.379	1
07/09/2021	F*	2:59:48	3:30:36	3:57:10	4:43:27	5:19:03	8:37:44	12:58:12	17:19:12	20:36:57	21:12:27	21:58:34	22:24:59	22:55:31	15:17:54	-5.320	22.257	0
07/10/2021	Sat*	3:01:15	3:31:48	3:58:13	4:44:20	5:19:50	8:37:10	12:58:21	17:20:03	20:36:26	21:11:51	21:57:47	22:24:02	22:54:19	15:16:37	-5.461	22.128	1
07/11/2021	Sun*	3:02:45	3:33:02	3:59:17	4:45:13	5:20:38	8:36:33	12:58:29	17:20:56	20:35:53	21:11:12	21:56:56	22:23:02	22:53:03	15:15:16	-5.594	21.994	5
07/12/2021	M*	3:04:17	3:34:18	4:00:24	4:46:08	5:21:27	8:35:54	12:58:36	17:21:50	20:35:18	21:10:31	21:56:04	22:22:00	22:51:44	15:13:51	-5.720	21.853	10
07/13/2021	Tu*	3:05:51	3:35:35	4:01:32	4:47:05	5:22:17	8:35:13	12:58:43	17:22:45	20:34:41	21:09:47	21:55:08	22:20:54	22:50:22	15:12:23	-5.837	21.705	17

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight													
07/14/2021	W*	3:07:27	3:36:55	4:02:41	4:48:03	5:23:09	8:34:30	12:58:50	17:23:41	20:34:01	21:09:01	21:54:10	22:19:46	22:48:57	15:10:52	-5.947	21.552	26
07/15/2021	Th*	3:09:05	3:38:16	4:03:53	4:49:02	5:24:02	8:33:44	12:58:56	17:24:38	20:33:19	21:08:13	21:53:09	22:18:35	22:47:30	15:09:17	-6.047	21.393	36
07/16/2021	F*	3:10:45	3:39:40	4:05:06	4:50:02	5:24:56	8:32:56	12:59:01	17:25:37	20:32:35	21:07:22	21:52:06	22:17:22	22:46:00	15:07:39	-6.138	21.227	47
07/17/2021	Sat*	3:12:26	3:41:04	4:06:20	4:51:04	5:25:51	8:32:06	12:59:06	17:26:36	20:31:49	21:06:29	21:51:00	22:16:06	22:44:27	15:05:59	-6.221	21.055	58
07/18/2021	Sun*	3:14:09	3:42:30	4:07:35	4:52:07	5:26:47	8:31:14	12:59:11	17:27:37	20:31:01	21:05:34	21:49:53	22:14:47	22:42:51	15:04:15	-6.294	20.878	69
07/19/2021	M*	3:15:53	3:43:57	4:08:52	4:53:10	5:27:44	8:30:19	12:59:14	17:28:38	20:30:11	21:04:37	21:48:42	22:13:26	22:41:14	15:02:28	-6.358	20.695	79
07/20/2021	Tu*	3:17:38	3:45:26	4:10:10	4:54:15	5:28:42	8:29:23	12:59:18	17:29:41	20:29:19	21:03:38	21:47:30	22:12:03	22:39:34	15:00:38	-6.412	20.506	88
07/21/2021	W*	3:19:24	3:46:56	4:11:29	4:55:21	5:29:40	8:28:24	12:59:20	17:30:44	20:28:25	21:02:37	21:46:15	22:10:38	22:37:52	14:58:45	-6.456	20.311	95
07/22/2021	Th*	3:21:12	3:48:26	4:12:49	4:56:27	5:30:40	8:27:24	12:59:22	17:31:48	20:27:29	21:01:33	21:44:58	22:09:10	22:36:08	14:56:49	-6.491	20.110	99
07/23/2021	F*	3:23:00	3:49:58	4:14:10	4:57:35	5:31:40	8:26:21	12:59:24	17:32:53	20:26:31	21:00:28	21:43:39	22:07:40	22:34:22	14:54:51	-6.515	19.904	100
07/24/2021	Sat*	3:24:48	3:51:30	4:15:31	4:58:43	5:32:41	8:25:17	12:59:25	17:33:58	20:25:31	20:59:21	21:42:19	22:06:09	22:32:35	14:52:50	-6.530	19.693	98
07/25/2021	Sun*	3:26:38	3:53:04	4:16:54	4:59:52	5:33:42	8:24:11	12:59:25	17:35:05	20:24:29	20:58:12	21:40:56	22:04:36	22:30:45	14:50:47	-6.536	19.476	95
07/26/2021	M*	3:28:28	3:54:37	4:18:17	5:01:02	5:34:45	8:23:02	12:59:25	17:36:12	20:23:26	20:57:01	21:39:31	22:03:00	22:28:54	14:48:41	-6.531	19.253	89
07/27/2021	Tu*	3:30:18	3:56:12	4:19:41	5:02:12	5:35:48	8:21:53	12:59:24	17:37:19	20:22:21	20:55:48	21:38:05	22:01:24	22:27:02	14:46:33	-6.517	19.026	81
07/28/2021	W*	3:32:08	3:57:47	4:21:06	5:03:23	5:36:51	8:20:41	12:59:23	17:38:28	20:21:14	20:54:33	21:36:37	21:59:45	22:25:08	14:44:22	-6.493	18.793	73
07/29/2021	Th*	3:33:59	3:59:23	4:22:31	5:04:35	5:37:55	8:19:27	12:59:21	17:39:36	20:20:05	20:53:17	21:35:07	21:58:05	22:23:13	14:42:10	-6.459	18.555	64
07/30/2021	F*	3:35:50	4:00:59	4:23:57	5:05:47	5:39:00	8:18:12	12:59:18	17:40:46	20:18:54	20:51:59	21:33:36	21:56:23	22:21:16	14:39:55	-6.415	18.312	54
07/31/2021	Sat*	3:37:42	4:02:35	4:25:23	5:06:59	5:40:05	8:16:55	12:59:15	17:41:56	20:17:42	20:50:40	21:32:03	21:54:40	22:19:18	14:37:38	-6.361	18.063	45
08/01/2021	Sun*	3:39:33	4:04:12	4:26:49	5:08:12	5:41:10	8:15:37	12:59:11	17:43:06	20:16:29	20:49:19	21:30:28	21:52:55	22:17:19	14:35:18	-6.298	17.810	35
08/02/2021	M*	3:41:24	4:05:48	4:28:16	5:09:26	5:42:16	8:14:16	12:59:06	17:44:17	20:15:14	20:47:56	21:28:52	21:51:09	22:15:19	14:32:57	-6.224	17.552	27
08/03/2021	Tu*	3:43:15	4:07:25	4:29:43	5:10:40	5:43:23	8:12:55	12:59:01	17:45:28	20:13:57	20:46:32	21:27:15	21:49:22	22:13:18	14:30:34	-6.141	17.290	19
08/04/2021	W*	3:45:06	4:09:02	4:31:10	5:11:54	5:44:29	8:11:31	12:58:56	17:46:39	20:12:39	20:45:06	21:25:36	21:47:34	22:11:16	14:28:09	-6.048	17.022	12
08/05/2021	Th*	3:46:57	4:10:39	4:32:37	5:13:08	5:45:36	8:10:07	12:58:50	17:47:51	20:11:19	20:43:39	21:23:56	21:45:44	22:09:13	14:25:43	-5.946	16.750	6
08/06/2021	F*	3:48:47	4:12:17	4:34:05	5:14:23	5:46:44	8:08:40	12:58:43	17:49:03	20:09:58	20:42:11	21:22:15	21:43:53	22:07:10	14:23:14	-5.833	16.474	2
08/07/2021	Sat*	3:50:37	4:13:54	4:35:32	5:15:37	5:47:51	8:07:13	12:58:36	17:50:16	20:08:35	20:40:41	21:20:32	21:42:02	22:05:05	14:20:44	-5.711	16.193	0
08/08/2021	Sun*	3:52:27	4:15:30	4:37:00	5:16:52	5:48:59	8:05:43	12:58:28	17:51:28	20:07:11	20:39:10	21:18:49	21:40:09	22:03:00	14:18:12	-5.579	15.908	1
08/09/2021	M*	3:54:16	4:17:07	4:38:28	5:18:07	5:50:07	8:04:13	12:58:19	17:52:41	20:05:46	20:37:37	21:17:04	21:38:15	22:00:54	14:15:39	-5.437	15.618	3
08/10/2021	Tu*	3:56:05	4:18:44	4:39:55	5:19:23	5:51:15	8:02:41	12:58:10	17:53:54	20:04:19	20:36:04	21:15:18	21:36:21	21:58:47	14:13:04	-5.286	15.325	8
08/11/2021	W*	3:57:53	4:20:20	4:41:22	5:20:38	5:52:23	8:01:08	12:58:00	17:55:07	20:02:51	20:34:29	21:13:31	21:34:25	21:56:40	14:10:28	-5.124	15.027	14
08/12/2021	Th*	3:59:41	4:21:56	4:42:50	5:21:53	5:53:32	7:59:34	12:57:50	17:56:20	20:01:22	20:32:53	21:11:44	21:32:29	21:54:32	14:07:51	-4.954	14.725	23
08/13/2021	F*	4:01:28	4:23:31	4:44:17	5:23:08	5:54:40	7:57:58	12:57:39	17:57:33	19:59:52	20:31:16	21:09:55	21:30:32	21:52:24	14:05:12	-4.774	14.419	33
08/14/2021	Sat*	4:03:14	4:25:07	4:45:44	5:24:23	5:55:49	7:56:21	12:57:28	17:58:47	19:58:21	20:29:38	21:08:05	21:28:34	21:50:15	14:02:32	-4.584	14.110	44
08/15/2021	Sun*	4:05:00	4:26:41	4:47:10	5:25:39	5:56:57	7:54:43	12:57:16	18:00:00	19:56:48	20:27:59	21:06:15	21:26:35	21:48:06	13:59:51	-4.385	13.797	56
08/16/2021	M*	4:06:45	4:28:16	4:48:37	5:26:54	5:58:06	7:53:04	12:57:04	18:01:14	19:55:14	20:26:19	21:04:24	21:24:36	21:45:56	13:57:08	-4.178	13.480	67
08/17/2021	Tu*	4:08:29	4:29:50	4:50:03	5:28:09	5:59:14	7:51:24	12:56:51	18:02:27	19:53:39	20:24:38	21:02:32	21:22:36	21:43:46	13:54:25	-3.961	13.160	77
08/18/2021	W*	4:10:13	4:31:23	4:51:28	5:29:24	6:00:23	7:49:43	12:56:37	18:03:41	19:52:04	20:22:56	21:00:39	21:20:36	21:41:36	13:51:40	-3.736	12.836	86
08/19/2021	Th*	4:11:56	4:32:56	4:52:54	5:30:38	6:01:32	7:48:00	12:56:23	18:04:55	19:50:27	20:21:13	20:58:46	21:18:35	21:39:26	13:48:55	-3.502	12.509	93
08/20/2021	F*	4:13:38	4:34:29	4:54:19	5:31:53	6:02:40	7:46:17	12:56:09	18:06:08	19:48:49	20:19:29	20:56:52	21:16:34	21:37:15	13:46:08	-3.260	12.179	98
08/21/2021	Sat*	4:15:19	4:36:01	4:55:44	5:33:08	6:03:49	7:44:33	12:55:54	18:07:22	19:47:10	20:17:45	20:54:57	21:14:33	21:35:04	13:43:21	-3.010	11.845	100
08/22/2021	Sun*	4:17:00	4:37:32	4:57:08	5:34:22	6:04:58	7:42:48	12:55:38	18:08:36	19:45:31	20:15:59	20:53:02	21:12:31	21:32:53	13:40:33	-2.753	11.508	99

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	sun decli-	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight						End Twilight	deg. Twilight	nomical Twilight					Eqn Time (min.)
08/23/2021	M*	4:18:40	4:39:03	4:58:32	5:35:36	6:06:06	7:41:02	12:55:22	18:09:49	19:43:50	20:14:13	20:51:06	21:10:28	21:30:42	13:37:44	-2.488	11.169	97
08/24/2021	Tu*	4:20:19	4:40:33	4:59:56	5:36:50	6:07:15	7:39:15	12:55:06	18:11:03	19:42:09	20:12:27	20:49:10	21:08:25	21:28:31	13:34:54	-2.216	10.826	92
08/25/2021	W*	4:21:57	4:42:03	5:01:19	5:38:04	6:08:24	7:37:28	12:54:49	18:12:17	19:40:27	20:10:39	20:47:14	21:06:23	21:26:20	13:32:03	-1.938	10.481	86
08/26/2021	Th*	4:23:35	4:43:33	5:02:42	5:39:18	6:09:32	7:35:39	12:54:32	18:13:30	19:38:44	20:08:51	20:45:17	21:04:19	21:24:09	13:29:12	-1.653	10.133	79
08/27/2021	F*	4:25:12	4:45:02	5:04:05	5:40:32	6:10:41	7:33:50	12:54:15	18:14:44	19:37:01	20:07:03	20:43:20	21:02:16	21:21:57	13:26:20	-1.362	9.782	70
08/28/2021	Sat*	4:26:48	4:46:30	5:05:27	5:41:45	6:11:49	7:32:01	12:53:57	18:15:58	19:35:16	20:05:14	20:41:22	21:00:12	21:19:46	13:23:27	-1.065	9.428	61
08/29/2021	Sun*	4:28:23	4:47:58	5:06:49	5:42:59	6:12:58	7:30:10	12:53:39	18:17:12	19:33:32	20:03:24	20:39:24	20:58:09	21:17:35	13:20:34	-0.763	9.072	52
08/30/2021	M*	4:29:58	4:49:25	5:08:10	5:44:12	6:14:06	7:28:19	12:53:20	18:18:26	19:31:46	20:01:34	20:37:26	20:56:05	21:15:24	13:17:40	-0.455	8.714	42
08/31/2021	Tu*	4:31:32	4:50:52	5:09:31	5:45:25	6:15:15	7:26:28	12:53:02	18:19:40	19:30:00	19:59:44	20:35:28	20:54:01	21:13:13	13:14:45	-0.142	8.353	33
09/01/2021	W*	4:33:05	4:52:18	5:10:52	5:46:38	6:16:23	7:24:35	12:52:42	18:20:54	19:28:13	19:57:53	20:33:29	20:51:57	21:11:03	13:11:50	0.175	7.990	24
09/02/2021	Th*	4:34:37	4:53:43	5:12:12	5:47:51	6:17:32	7:22:43	12:52:23	18:22:07	19:26:26	19:56:02	20:31:30	20:49:53	21:08:52	13:08:54	0.497	7.624	16
09/03/2021	F*	4:36:09	4:55:09	5:13:32	5:49:03	6:18:40	7:20:49	12:52:04	18:23:21	19:24:39	19:54:10	20:29:32	20:47:50	21:06:42	13:05:58	0.823	7.257	10
09/04/2021	Sat*	4:37:40	4:56:33	5:14:52	5:50:16	6:19:49	7:18:56	12:51:44	18:24:35	19:22:51	19:52:18	20:27:33	20:45:46	21:04:32	13:03:02	1.154	6.888	4
09/05/2021	Sun*	4:39:10	4:57:57	5:16:11	5:51:28	6:20:57	7:17:01	12:51:24	18:25:49	19:21:02	19:50:26	20:25:34	20:43:42	21:02:22	13:00:05	1.488	6.516	1
09/06/2021	M*	4:40:40	4:59:21	5:17:30	5:52:40	6:22:06	7:15:07	12:51:04	18:27:04	19:19:13	19:48:33	20:23:35	20:41:39	21:00:13	12:57:07	1.825	6.143	0
09/07/2021	Tu*	4:42:09	5:00:44	5:18:48	5:53:52	6:23:14	7:13:12	12:50:43	18:28:18	19:17:24	19:46:41	20:21:36	20:39:35	20:58:04	12:54:09	2.166	5.769	2
09/08/2021	W*	4:43:37	5:02:06	5:20:07	5:55:04	6:24:23	7:11:16	12:50:22	18:29:32	19:15:34	19:44:48	20:19:37	20:37:32	20:55:55	12:51:11	2.510	5.392	6
09/09/2021	Th*	4:45:04	5:03:28	5:21:24	5:56:15	6:25:31	7:09:21	12:50:02	18:30:46	19:13:44	19:42:55	20:17:38	20:35:29	20:53:47	12:48:13	2.856	5.015	12
09/10/2021	F*	4:46:31	5:04:50	5:22:42	5:57:27	6:26:40	7:07:24	12:49:41	18:32:00	19:11:54	19:41:02	20:15:39	20:33:26	20:51:39	12:45:14	3.205	4.635	21
09/11/2021	Sat*	4:47:57	5:06:11	5:23:59	5:58:38	6:27:49	7:05:28	12:49:20	18:33:14	19:10:03	19:39:08	20:13:40	20:31:23	20:49:31	12:42:15	3.557	4.255	31
09/12/2021	Sun*	4:49:22	5:07:31	5:25:15	5:59:50	6:28:57	7:03:32	12:48:58	18:34:28	19:08:12	19:37:15	20:11:42	20:29:21	20:47:24	12:39:15	3.910	3.873	42
09/13/2021	M*	4:50:47	5:08:51	5:26:31	6:01:01	6:30:06	7:01:35	12:48:37	18:35:43	19:06:21	19:35:21	20:09:43	20:27:19	20:45:17	12:36:16	4.265	3.490	53
09/14/2021	Tu*	4:52:11	5:10:11	5:27:47	6:02:12	6:31:14	6:59:38	12:48:16	18:36:57	19:04:30	19:33:28	20:07:45	20:25:17	20:43:11	12:33:16	4.621	3.106	64
09/15/2021	W*	4:53:34	5:11:30	5:29:03	6:03:22	6:32:23	6:57:41	12:47:54	18:38:12	19:02:39	19:31:35	20:05:47	20:23:16	20:41:06	12:30:16	4.979	2.722	75
09/16/2021	Th*	4:54:57	5:12:48	5:30:18	6:04:33	6:33:31	6:55:43	12:47:33	18:39:26	19:00:47	19:29:41	20:03:49	20:21:15	20:39:01	12:27:16	5.337	2.336	84
09/17/2021	F*	4:56:19	5:14:06	5:31:33	6:05:44	6:34:40	6:53:46	12:47:11	18:40:41	18:58:56	19:27:48	20:01:52	20:19:14	20:36:56	12:24:16	5.695	1.949	91
09/18/2021	Sat*	4:57:41	5:15:24	5:32:47	6:06:54	6:35:49	6:51:49	12:46:50	18:41:56	18:57:04	19:25:55	19:59:55	20:17:14	20:34:52	12:21:15	6.053	1.562	96
09/19/2021	Sun*	4:59:02	5:16:41	5:34:02	6:08:05	6:36:58	6:49:51	12:46:28	18:43:11	18:55:13	19:24:01	19:57:58	20:15:14	20:32:49	12:18:15	6.411	1.175	99
09/20/2021	M*	5:00:22	5:17:58	5:35:16	6:09:15	6:38:07	6:47:54	12:46:07	18:44:26	18:53:21	19:22:09	19:56:01	20:13:15	20:30:46	12:15:14	6.767	0.787	100
09/21/2021	Tu*	5:01:42	5:19:14	5:36:30	6:10:25	6:39:16	6:45:56	12:45:46	18:45:41	18:51:30	19:20:16	19:54:05	20:11:17	20:28:44	12:12:14	7.123	0.398	99
09/22/2021	W*	5:03:02	5:20:31	5:37:43	6:11:36	6:40:25	6:43:59	12:45:24	18:46:56	18:49:38	19:18:23	19:52:10	20:09:18	20:26:43	12:09:13	7.477	0.009	95
09/23/2021	Th*	5:04:21	5:21:46	5:38:56	6:12:46	6:41:34		12:45:03		18:47:47	19:16:31	19:50:15	20:07:21	20:24:42	12:06:12	7.828	-0.380	90
09/24/2021	F*	5:05:40	5:23:02	5:40:10	6:13:56	6:42:44		12:44:42		18:45:56	19:14:39	19:48:20	20:05:24	20:22:42	12:03:12	8.177	-0.769	84
09/25/2021	Sat*	5:06:58	5:24:17	5:41:23	6:15:07	6:43:54		12:44:22		18:44:04	19:12:48	19:46:26	20:03:28	20:20:43	12:00:11	8.524	-1.158	77
09/26/2021	Sun*	5:08:15	5:25:32	5:42:35	6:16:17	6:45:03		12:44:01		18:42:14	19:10:56	19:44:32	20:01:32	20:18:45	11:57:10	8.867	-1.547	68
09/27/2021	M*	5:09:33	5:26:47	5:43:48	6:17:27	6:46:14		12:43:41		18:40:23	19:09:05	19:42:39	19:59:37	20:16:47	11:54:09	9.206	-1.936	59
09/28/2021	Tu*	5:10:50	5:28:01	5:45:00	6:18:38	6:47:24		12:43:21		18:38:33	19:07:15	19:40:47	19:57:43	20:14:51	11:51:09	9.542	-2.325	50
09/29/2021	W*	5:12:06	5:29:15	5:46:13	6:19:48	6:48:34		12:43:01		18:36:42	19:05:25	19:38:55	19:55:50	20:12:55	11:48:08	9.873	-2.713	40
09/30/2021	Th*	5:13:22	5:30:29	5:47:25	6:20:59	6:49:45		12:42:41		18:34:53	19:03:35	19:37:04	19:53:57	20:11:00	11:45:08	10.199	-3.102	31
10/01/2021	F*	5:14:38	5:31:43	5:48:37	6:22:10	6:50:56		12:42:22		18:33:03	19:01:46	19:35:14	19:52:05	20:09:06	11:42:07	10.521	-3.489	22

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End					Length	Noon	Noon	9 PM
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight			Noon			End Civil Twilight	Nautical Twilight	deg. Twilight	Astro-nomical Twilight	of Day	Eqn Time (min.)	sun declination (deg.)	Lunar Illum. (pct.)	
10/02/2021	Sat*	5:15:54	5:32:56	5:49:49	6:23:21	6:52:08		12:42:03		18:31:14	18:59:58	19:33:24	19:50:14	20:07:13	11:39:07	10.837	-3.876	14	
10/03/2021	Sun*	5:17:09	5:34:10	5:51:02	6:24:31	6:53:19		12:41:44		18:29:26	18:58:10	19:31:35	19:48:24	20:05:21	11:36:07	11.148	-4.262	7	
10/04/2021	M*	5:18:24	5:35:23	5:52:13	6:25:43	6:54:31		12:41:26		18:27:37	18:56:23	19:29:47	19:46:35	20:03:30	11:33:07	11.453	-4.648	3	
10/05/2021	Tu*	5:19:39	5:36:36	5:53:25	6:26:54	6:55:43		12:41:08		18:25:50	18:54:36	19:28:00	19:44:47	20:01:40	11:30:07	11.751	-5.032	0	
10/06/2021	W*	5:20:53	5:37:49	5:54:37	6:28:05	6:56:55		12:40:50		18:24:03	18:52:50	19:26:13	19:42:59	19:59:52	11:27:07	12.044	-5.416	1	
10/07/2021	Th*	5:22:08	5:39:01	5:55:49	6:29:16	6:58:08		12:40:33		18:22:16	18:51:05	19:24:28	19:41:13	19:58:04	11:24:08	12.329	-5.798	4	
10/08/2021	F*	5:23:22	5:40:14	5:57:01	6:30:28	6:59:21		12:40:17		18:20:30	18:49:20	19:22:43	19:39:27	19:56:17	11:21:09	12.608	-6.179	10	
10/09/2021	Sat*	5:24:35	5:41:26	5:58:12	6:31:40	7:00:34		12:40:00		18:18:44	18:47:36	19:20:59	19:37:43	19:54:31	11:18:10	12.879	-6.559	18	
10/10/2021	Sun*	5:25:49	5:42:39	5:59:24	6:32:52	7:01:48		12:39:44		18:16:59	18:45:53	19:19:16	19:35:59	19:52:47	11:15:12	13.143	-6.937	28	
10/11/2021	M*	5:27:02	5:43:51	6:00:36	6:34:04	7:03:01		12:39:29		18:15:15	18:44:10	19:17:35	19:34:17	19:51:03	11:12:14	13.399	-7.314	39	
10/12/2021	Tu*	5:28:15	5:45:03	6:01:47	6:35:16	7:04:15		12:39:14		18:13:32	18:42:29	19:15:54	19:32:36	19:49:21	11:09:16	13.647	-7.689	50	
10/13/2021	W*	5:29:28	5:46:15	6:02:59	6:36:28	7:05:30		12:39:00		18:11:49	18:40:48	19:14:14	19:30:56	19:47:40	11:06:19	13.887	-8.062	61	
10/14/2021	Th*	5:30:40	5:47:27	6:04:10	6:37:40	7:06:44		12:38:46		18:10:07	18:39:09	19:12:35	19:29:17	19:46:00	11:03:22	14.119	-8.433	71	
10/15/2021	F*	5:31:53	5:48:38	6:05:22	6:38:53	7:07:59		12:38:33		18:08:26	18:37:30	19:10:57	19:27:39	19:44:22	11:00:26	14.341	-8.802	80	
10/16/2021	Sat*	5:33:05	5:49:50	6:06:33	6:40:05	7:09:14		12:38:20		18:06:45	18:35:52	19:09:21	19:26:02	19:42:45	10:57:31	14.554	-9.169	88	
10/17/2021	Sun*	5:34:17	5:51:02	6:07:45	6:41:18	7:10:30		12:38:08		18:05:06	18:34:15	19:07:45	19:24:27	19:41:09	10:54:36	14.757	-9.534	94	
10/18/2021	M*	5:35:29	5:52:13	6:08:56	6:42:31	7:11:46		12:37:56		18:03:27	18:32:39	19:06:11	19:22:52	19:39:34	10:51:41	14.951	-9.897	98	
10/19/2021	Tu*	5:36:41	5:53:24	6:10:08	6:43:44	7:13:02		12:37:45		18:01:49	18:31:04	19:04:38	19:21:20	19:38:01	10:48:48	15.134	-10.257	100	
10/20/2021	W*	5:37:52	5:54:36	6:11:20	6:44:58	7:14:18		12:37:35		18:00:12	18:29:31	19:03:06	19:19:48	19:36:30	10:45:55	15.307	-10.615	100	
10/21/2021	Th*	5:39:04	5:55:47	6:12:31	6:46:11	7:15:35		12:37:25		17:58:37	18:27:58	19:01:36	19:18:18	19:34:59	10:43:02	15.468	-10.970	98	
10/22/2021	F*	5:40:15	5:56:58	6:13:43	6:47:25	7:16:52		12:37:16		17:57:02	18:26:27	19:00:06	19:16:49	19:33:31	10:40:11	15.619	-11.322	94	
10/23/2021	Sat*	5:41:26	5:58:10	6:14:54	6:48:39	7:18:09		12:37:08		17:55:29	18:24:57	18:58:39	19:15:22	19:32:03	10:37:20	15.758	-11.671	89	
10/24/2021	Sun*	5:42:37	5:59:21	6:16:06	6:49:53	7:19:26		12:37:00		17:53:56	18:23:28	18:57:12	19:13:56	19:30:38	10:34:30	15.885	-12.018	83	
10/25/2021	M*	5:43:48	6:00:32	6:17:18	6:51:07	7:20:44		12:36:53		17:52:25	18:22:00	18:55:47	19:12:31	19:29:13	10:31:41	16.000	-12.362	75	
10/26/2021	Tu*	5:44:59	6:01:43	6:18:30	6:52:22	7:22:02		12:36:47		17:50:55	18:20:34	18:54:23	19:11:09	19:27:51	10:28:53	16.102	-12.702	66	
10/27/2021	W*	5:46:10	6:02:54	6:19:42	6:53:36	7:23:21		12:36:41		17:49:26	18:19:09	18:53:01	19:09:47	19:26:30	10:26:05	16.192	-13.039	57	
10/28/2021	Th*	5:47:21	6:04:05	6:20:54	6:54:51	7:24:39		12:36:37		17:47:58	18:17:46	18:51:41	19:08:27	19:25:10	10:23:19	16.270	-13.373	47	
10/29/2021	F*	5:48:32	6:05:17	6:22:05	6:56:06	7:25:58		12:36:33		17:46:32	18:16:23	18:50:21	19:07:09	19:23:52	10:20:34	16.334	-13.703	37	
10/30/2021	Sat*	5:49:42	6:06:28	6:23:17	6:57:21	7:27:17		12:36:30		17:45:07	18:15:03	18:49:04	19:05:52	19:22:36	10:17:50	16.385	-14.030	28	
10/31/2021	Sun*	5:50:53	6:07:39	6:24:29	6:58:36	7:28:37		12:36:28		17:43:44	18:13:44	18:47:48	19:04:37	19:21:22	10:15:07	16.422	-14.353	18	
11/01/2021	M*	5:52:03	6:08:50	6:25:41	6:59:51	7:29:56		12:36:26		17:42:22	18:12:26	18:46:34	19:03:24	19:20:09	10:12:26	16.447	-14.672	11	
11/02/2021	Tu*	5:53:13	6:10:01	6:26:53	7:01:06	7:31:16		12:36:26		17:41:02	18:11:10	18:45:21	19:02:13	19:18:58	10:09:46	16.457	-14.988	5	
11/03/2021	W*	5:54:24	6:11:11	6:28:05	7:02:22	7:32:36		12:36:26		17:39:43	18:09:55	18:44:10	19:01:03	19:17:49	10:07:07	16.454	-15.299	1	
11/04/2021	Th*	5:55:34	6:12:22	6:29:17	7:03:37	7:33:56		12:36:27		17:38:25	18:08:43	18:43:01	18:59:55	19:16:42	10:04:30	16.437	-15.606	0	
11/05/2021	F*	5:56:43	6:13:33	6:30:29	7:04:52	7:35:16		12:36:29		17:37:09	18:07:32	18:41:53	18:58:48	19:15:37	10:01:54	16.406	-15.909	2	
11/06/2021	Sat*	5:57:53	6:14:43	6:31:41	7:06:08	7:36:36		12:36:31		17:35:55	18:06:22	18:40:48	18:57:44	19:14:33	9:59:20	16.361	-16.207	7	
11/07/2021	Sun	4:59:02	5:15:54	5:32:52	6:07:23	6:37:56		11:36:35		16:34:43	17:05:14	17:39:44	17:56:41	18:13:31	9:56:47	16.303	-16.501	15	
11/08/2021	M	5:00:12	5:17:04	5:34:04	6:08:38	6:39:16		11:36:39		16:33:32	17:04:08	17:38:41	17:55:40	18:12:31	9:54:16	16.230	-16.791	25	
11/09/2021	Tu	5:01:21	5:18:14	5:35:15	6:09:53	6:40:35		11:36:44		16:32:23	17:03:04	17:37:41	17:54:41	18:11:33	9:51:47	16.144	-17.075	35	
11/10/2021	W	5:02:29	5:19:23	5:36:26	6:11:08	6:41:55		11:36:50		16:31:16	17:02:02	17:36:43	17:53:44	18:10:37	9:49:20	16.044	-17.355	46	

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	sun decli-	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight			Noon			Civil Twilight	Nautical Twilight	deg. Twilight		Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)	
11/11/2021	Th	5:03:38	5:20:33	5:37:37	6:12:23	6:43:15		11:36:57		16:30:10	17:01:01	17:35:46	17:52:49	18:09:43	9:46:55	15.931	-17.629	57
11/12/2021	F	5:04:46	5:21:42	5:38:47	6:13:37	6:44:34		11:37:05		16:29:07	17:00:03	17:34:52	17:51:56	18:08:51	9:44:32	15.803	-17.899	67
11/13/2021	Sat	5:05:54	5:22:51	5:39:58	6:14:52	6:45:54		11:37:13		16:28:05	16:59:06	17:33:59	17:51:05	18:08:01	9:42:11	15.662	-18.163	76
11/14/2021	Sun	5:07:01	5:23:59	5:41:08	6:16:06	6:47:12		11:37:23		16:27:05	16:58:11	17:33:08	17:50:16	18:07:13	9:39:53	15.506	-18.422	84
11/15/2021	M	5:08:08	5:25:08	5:42:17	6:17:19	6:48:31		11:37:33		16:26:07	16:57:18	17:32:20	17:49:28	18:06:27	9:37:36	15.337	-18.676	91
11/16/2021	Tu	5:09:15	5:26:15	5:43:26	6:18:33	6:49:49		11:37:44		16:25:12	16:56:28	17:31:33	17:48:43	18:05:43	9:35:22	15.154	-18.924	96
11/17/2021	W	5:10:21	5:27:23	5:44:35	6:19:46	6:51:07		11:37:56		16:24:18	16:55:39	17:30:48	17:48:00	18:05:01	9:33:11	14.958	-19.166	99
11/18/2021	Th	5:11:27	5:28:30	5:45:44	6:20:58	6:52:25		11:38:08		16:23:26	16:54:52	17:30:06	17:47:19	18:04:21	9:31:02	14.747	-19.403	100
11/19/2021	F	5:12:33	5:29:36	5:46:52	6:22:10	6:53:42		11:38:22		16:22:37	16:54:08	17:29:25	17:46:40	18:03:43	9:28:55	14.523	-19.634	99
11/20/2021	Sat	5:13:37	5:30:43	5:47:59	6:23:22	6:54:58		11:38:36		16:21:50	16:53:25	17:28:47	17:46:03	18:03:08	9:26:52	14.285	-19.859	97
11/21/2021	Sun	5:14:42	5:31:48	5:49:06	6:24:33	6:56:14		11:38:51		16:21:05	16:52:45	17:28:11	17:45:29	18:02:34	9:24:51	14.034	-20.078	93
11/22/2021	M	5:15:46	5:32:53	5:50:13	6:25:43	6:57:29		11:39:07		16:20:22	16:52:07	17:27:37	17:44:56	18:02:03	9:22:53	13.769	-20.291	88
11/23/2021	Tu	5:16:49	5:33:58	5:51:19	6:26:53	6:58:44		11:39:24		16:19:41	16:51:32	17:27:05	17:44:26	18:01:34	9:20:58	13.491	-20.498	81
11/24/2021	W	5:17:52	5:35:01	5:52:24	6:28:02	6:59:57		11:39:41		16:19:03	16:50:58	17:26:35	17:43:58	18:01:07	9:19:06	13.200	-20.698	73
11/25/2021	Th	5:18:54	5:36:05	5:53:29	6:29:11	7:01:10		11:39:59		16:18:27	16:50:27	17:26:08	17:43:32	18:00:42	9:17:17	12.896	-20.892	64
11/26/2021	F	5:19:55	5:37:07	5:54:33	6:30:18	7:02:23		11:40:18		16:17:54	16:49:58	17:25:43	17:43:08	18:00:19	9:15:31	12.580	-21.079	54
11/27/2021	Sat	5:20:56	5:38:09	5:55:36	6:31:25	7:03:34		11:40:38		16:17:23	16:49:31	17:25:20	17:42:46	17:59:59	9:13:49	12.251	-21.260	43
11/28/2021	Sun	5:21:56	5:39:10	5:56:38	6:32:31	7:04:44		11:40:58		16:16:54	16:49:07	17:24:59	17:42:27	17:59:41	9:12:10	11.909	-21.435	33
11/29/2021	M	5:22:55	5:40:10	5:57:40	6:33:36	7:05:53		11:41:20		16:16:28	16:48:45	17:24:41	17:42:10	17:59:25	9:10:35	11.556	-21.602	23
11/30/2021	Tu	5:23:54	5:41:10	5:58:41	6:34:40	7:07:02		11:41:42		16:16:04	16:48:25	17:24:24	17:41:55	17:59:11	9:09:03	11.192	-21.763	14
12/01/2021	W	5:24:51	5:42:08	5:59:40	6:35:43	7:08:09		11:42:04		16:15:43	16:48:08	17:24:11	17:41:42	17:58:59	9:07:35	10.816	-21.917	7
12/02/2021	Th	5:25:48	5:43:06	6:00:39	6:36:45	7:09:14		11:42:27		16:15:24	16:47:53	17:23:59	17:41:32	17:58:50	9:06:10	10.429	-22.063	2
12/03/2021	F	5:26:44	5:44:03	6:01:37	6:37:46	7:10:19		11:42:51		16:15:08	16:47:41	17:23:50	17:41:24	17:58:43	9:04:49	10.032	-22.203	0
12/04/2021	Sat	5:27:38	5:44:58	6:02:34	6:38:46	7:11:22		11:43:16		16:14:55	16:47:31	17:23:43	17:41:18	17:58:38	9:03:33	9.626	-22.336	1
12/05/2021	Sun	5:28:32	5:45:53	6:03:29	6:39:44	7:12:24		11:43:40		16:14:44	16:47:23	17:23:38	17:41:14	17:58:35	9:02:20	9.210	-22.461	5
12/06/2021	M	5:29:24	5:46:46	6:04:24	6:40:41	7:13:24		11:44:06		16:14:35	16:47:18	17:23:35	17:41:13	17:58:34	9:01:11	8.785	-22.579	12
12/07/2021	Tu	5:30:16	5:47:38	6:05:17	6:41:37	7:14:23		11:44:32		16:14:29	16:47:15	17:23:35	17:41:13	17:58:36	9:00:07	8.352	-22.689	20
12/08/2021	W	5:31:06	5:48:29	6:06:09	6:42:31	7:15:20		11:44:58		16:14:26	16:47:15	17:23:37	17:41:16	17:58:39	8:59:06	7.911	-22.793	30
12/09/2021	Th	5:31:55	5:49:19	6:06:59	6:43:24	7:16:15		11:45:25		16:14:25	16:47:17	17:23:41	17:41:21	17:58:45	8:58:10	7.463	-22.888	41
12/10/2021	F	5:32:42	5:50:07	6:07:48	6:44:15	7:17:09		11:45:53		16:14:27	16:47:21	17:23:47	17:41:28	17:58:53	8:57:18	7.009	-22.976	51
12/11/2021	Sat	5:33:29	5:50:54	6:08:36	6:45:04	7:18:01		11:46:20		16:14:31	16:47:28	17:23:56	17:41:37	17:59:03	8:56:31	6.548	-23.057	61
12/12/2021	Sun	5:34:14	5:51:39	6:09:22	6:45:52	7:18:50		11:46:48		16:14:38	16:47:37	17:24:07	17:41:49	17:59:15	8:55:48	6.081	-23.130	71
12/13/2021	M	5:34:57	5:52:23	6:10:06	6:46:38	7:19:38		11:47:16		16:14:48	16:47:48	17:24:19	17:42:02	17:59:29	8:55:09	5.610	-23.195	79
12/14/2021	Tu	5:35:39	5:53:06	6:10:49	6:47:23	7:20:24		11:47:45		16:15:00	16:48:02	17:24:35	17:42:18	17:59:45	8:54:35	5.133	-23.253	86
12/15/2021	W	5:36:20	5:53:47	6:11:31	6:48:05	7:21:09		11:48:14		16:15:14	16:48:18	17:24:52	17:42:36	18:00:03	8:54:06	4.652	-23.302	92
12/16/2021	Th	5:36:59	5:54:26	6:12:11	6:48:46	7:21:50		11:48:43		16:15:31	16:48:36	17:25:11	17:42:55	18:00:23	8:53:41	4.168	-23.344	96
12/17/2021	F	5:37:36	5:55:04	6:12:49	6:49:25	7:22:30		11:49:12		16:15:51	16:48:56	17:25:32	17:43:17	18:00:45	8:53:20	3.680	-23.379	99
12/18/2021	Sat	5:38:12	5:55:40	6:13:25	6:50:02	7:23:08		11:49:42		16:16:13	16:49:19	17:25:56	17:43:41	18:01:09	8:53:05	3.190	-23.405	100
12/19/2021	Sun	5:38:46	5:56:14	6:13:59	6:50:37	7:23:44		11:50:11		16:16:37	16:49:44	17:26:21	17:44:06	18:01:34	8:52:54	2.697	-23.424	99
12/20/2021	M	5:39:19	5:56:47	6:14:32	6:51:10	7:24:17		11:50:41		16:17:04	16:50:11	17:26:49	17:44:34	18:02:02	8:52:47	2.203	-23.434	96

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length of Day	Noon	sun decli-	9 PM	
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight			Noon			End Civil Twilight	Nautical Twilight	deg. Twilight		nomical Twilight	Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)
12/21/2021	Tu	5:39:50	5:57:18	6:15:03	6:51:41	7:24:48		11:51:11		16:17:33	16:50:41	17:27:18	17:45:03	18:02:32	8:52:46	1.708	-23.437	92
12/22/2021	W	5:40:19	5:57:47	6:15:32	6:52:10	7:25:17		11:51:40		16:18:05	16:51:12	17:27:50	17:45:35	18:03:03	8:52:49	1.211	-23.433	86
12/23/2021	Th	5:40:46	5:58:14	6:15:59	6:52:36	7:25:43		11:52:10		16:18:39	16:51:46	17:28:23	17:46:08	18:03:36	8:52:56	0.715	-23.420	79
12/24/2021	F	5:41:12	5:58:40	6:16:24	6:53:01	7:26:07		11:52:40		16:19:15	16:52:22	17:28:58	17:46:43	18:04:11	8:53:08	0.219	-23.399	70
12/25/2021	Sat	5:41:36	5:59:03	6:16:48	6:53:24	7:26:29		11:53:10		16:19:54	16:52:59	17:29:35	17:47:20	18:04:47	8:53:25	-0.276	-23.371	60
12/26/2021	Sun	5:41:57	5:59:25	6:17:09	6:53:44	7:26:48		11:53:39		16:20:35	16:53:39	17:30:14	17:47:58	18:05:26	8:53:47	-0.770	-23.335	49
12/27/2021	M	5:42:17	5:59:44	6:17:28	6:54:02	7:27:05		11:54:09		16:21:18	16:54:21	17:30:55	17:48:39	18:06:06	8:54:13	-1.261	-23.291	39
12/28/2021	Tu	5:42:35	6:00:02	6:17:45	6:54:18	7:27:19		11:54:38		16:22:03	16:55:04	17:31:37	17:49:21	18:06:47	8:54:44	-1.751	-23.239	28
12/29/2021	W	5:42:52	6:00:18	6:18:00	6:54:32	7:27:31		11:55:07		16:22:50	16:55:50	17:32:21	17:50:04	18:07:30	8:55:19	-2.237	-23.179	18
12/30/2021	Th	5:43:06	6:00:31	6:18:13	6:54:43	7:27:41		11:55:36		16:23:40	16:56:37	17:33:07	17:50:49	18:08:15	8:55:59	-2.719	-23.112	10
12/31/2021	F	5:43:18	6:00:43	6:18:24	6:54:52	7:27:48		11:56:05		16:24:31	16:57:26	17:33:54	17:51:36	18:09:01	8:56:43	-3.198	-23.037	4
01/01/2022	Sat	5:43:28	6:00:52	6:18:33	6:54:59	7:27:52		11:56:33		16:25:24	16:58:17	17:34:43	17:52:24	18:09:49	8:57:32	-3.671	-22.954	1
01/02/2022	Sun	5:43:36	6:01:00	6:18:40	6:55:03	7:27:54		11:57:01		16:26:19	16:59:10	17:35:34	17:53:14	18:10:38	8:58:25	-4.139	-22.864	0
01/03/2022	M	5:43:42	6:01:05	6:18:44	6:55:06	7:27:53		11:57:29		16:27:16	17:00:04	17:36:26	17:54:05	18:11:28	8:59:23	-4.601	-22.766	3
01/04/2022	Tu	5:43:46	6:01:08	6:18:46	6:55:05	7:27:50		11:57:56		16:28:15	17:01:00	17:37:19	17:54:57	18:12:20	9:00:24	-5.056	-22.660	8
01/05/2022	W	5:43:48	6:01:09	6:18:46	6:55:03	7:27:45		11:58:23		16:29:15	17:01:57	17:38:14	17:55:51	18:13:12	9:01:30	-5.505	-22.547	16
01/06/2022	Th	5:43:48	6:01:08	6:18:44	6:54:58	7:27:36		11:58:50		16:30:17	17:02:55	17:39:09	17:56:46	18:14:06	9:02:40	-5.945	-22.427	25
01/07/2022	F	5:43:45	6:01:05	6:18:40	6:54:51	7:27:26		11:59:16		16:31:20	17:03:55	17:40:07	17:57:42	18:15:02	9:03:55	-6.377	-22.299	34
01/08/2022	Sat	5:43:41	6:00:59	6:18:33	6:54:41	7:27:12		11:59:41		16:32:25	17:04:57	17:41:05	17:58:39	18:15:58	9:05:13	-6.800	-22.164	44
01/09/2022	Sun	5:43:34	6:00:51	6:18:24	6:54:29	7:26:56		12:00:06		16:33:31	17:05:59	17:42:04	17:59:37	18:16:55	9:06:35	-7.214	-22.022	54
01/10/2022	M	5:43:25	6:00:41	6:18:13	6:54:14	7:26:38		12:00:30		16:34:39	17:07:03	17:43:05	18:00:37	18:17:54	9:08:01	-7.619	-21.872	64
01/11/2022	Tu	5:43:14	6:00:29	6:17:59	6:53:58	7:26:17		12:00:54		16:35:48	17:08:08	17:44:07	18:01:37	18:18:53	9:09:31	-8.013	-21.715	73
01/12/2022	W	5:43:00	6:00:15	6:17:44	6:53:38	7:25:54		12:01:17		16:36:58	17:09:14	17:45:09	18:02:38	18:19:53	9:11:04	-8.397	-21.552	81
01/13/2022	Th	5:42:45	5:59:58	6:17:26	6:53:17	7:25:28		12:01:39		16:38:10	17:10:21	17:46:13	18:03:40	18:20:54	9:12:42	-8.771	-21.381	87
01/14/2022	F	5:42:27	5:59:40	6:17:06	6:52:53	7:25:00		12:02:01		16:39:22	17:11:29	17:47:17	18:04:44	18:21:56	9:14:22	-9.134	-21.204	93
01/15/2022	Sat	5:42:07	5:59:19	6:16:43	6:52:27	7:24:29		12:02:22		16:40:36	17:12:38	17:48:22	18:05:48	18:22:59	9:16:06	-9.485	-21.020	97
01/16/2022	Sun	5:41:45	5:58:55	6:16:19	6:51:59	7:23:56		12:02:43		16:41:50	17:13:48	17:49:29	18:06:52	18:24:03	9:17:54	-9.825	-20.829	99
01/17/2022	M	5:41:21	5:58:30	6:15:52	6:51:28	7:23:21		12:03:02		16:43:05	17:14:59	17:50:36	18:07:58	18:25:07	9:19:45	-10.154	-20.631	100
01/18/2022	Tu	5:40:55	5:58:03	6:15:23	6:50:55	7:22:43		12:03:21		16:44:22	17:16:10	17:51:43	18:09:04	18:26:12	9:21:38	-10.470	-20.427	99
01/19/2022	W	5:40:27	5:57:33	6:14:52	6:50:20	7:22:03		12:03:40		16:45:39	17:17:23	17:52:52	18:10:11	18:27:18	9:23:35	-10.775	-20.217	95
01/20/2022	Th	5:39:56	5:57:01	6:14:19	6:49:43	7:21:21		12:03:57		16:46:57	17:18:36	17:54:01	18:11:19	18:28:24	9:25:35	-11.067	-20.000	90
01/21/2022	F	5:39:23	5:56:27	6:13:43	6:49:03	7:20:37		12:04:14		16:48:15	17:19:50	17:55:10	18:12:27	18:29:31	9:27:38	-11.347	-19.777	83
01/22/2022	Sat	5:38:49	5:55:51	6:13:06	6:48:22	7:19:50		12:04:30		16:49:35	17:21:04	17:56:21	18:13:36	18:30:39	9:29:44	-11.614	-19.548	75
01/23/2022	Sun	5:38:12	5:55:13	6:12:26	6:47:38	7:19:02		12:04:45		16:50:54	17:22:19	17:57:32	18:14:45	18:31:47	9:31:53	-11.869	-19.313	65
01/24/2022	M	5:37:33	5:54:33	6:11:45	6:46:52	7:18:11		12:05:00		16:52:15	17:23:34	17:58:43	18:15:55	18:32:56	9:34:04	-12.111	-19.072	55
01/25/2022	Tu	5:36:52	5:53:51	6:11:01	6:46:05	7:17:18		12:05:13		16:53:36	17:24:50	17:59:55	18:17:05	18:34:05	9:36:18	-12.340	-18.825	43
01/26/2022	W	5:36:09	5:53:07	6:10:15	6:45:15	7:16:23		12:05:26		16:54:57	17:26:07	18:01:07	18:18:16	18:35:15	9:38:34	-12.557	-18.572	32
01/27/2022	Th	5:35:24	5:52:21	6:09:27	6:44:23	7:15:26		12:05:39		16:56:19	17:27:23	18:02:20	18:19:28	18:36:25	9:40:53	-12.760	-18.314	22
01/28/2022	F	5:34:37	5:51:32	6:08:38	6:43:29	7:14:28		12:05:50		16:57:41	17:28:41	18:03:33	18:20:39	18:37:36	9:43:14	-12.950	-18.050	13
01/29/2022	Sat	5:33:47	5:50:42	6:07:46	6:42:33	7:13:27		12:06:01		16:59:04	17:29:58	18:04:47	18:21:51	18:38:47	9:45:37	-13.127	-17.781	6

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin Astro-nomical Twilight	Begin 15-deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
01/30/2022	Sun	5:32:56	5:49:50	6:06:52	6:41:36	7:12:24		12:06:10		17:00:27	17:31:16	18:06:01	18:23:04	18:39:58	9:48:03	-13.290	-17.506	2
01/31/2022	M	5:32:03	5:48:56	6:05:57	6:40:36	7:11:20		12:06:19		17:01:50	17:32:34	18:07:15	18:24:17	18:41:10	9:50:30	-13.440	-17.226	0
02/01/2022	Tu	5:31:08	5:48:00	6:05:00	6:39:35	7:10:13		12:06:28		17:03:13	17:33:52	18:08:29	18:25:30	18:42:22	9:53:00	-13.576	-16.941	1
02/02/2022	W	5:30:11	5:47:02	6:04:00	6:38:32	7:09:05		12:06:35		17:04:36	17:35:11	18:09:44	18:26:43	18:43:35	9:55:31	-13.699	-16.651	5
02/03/2022	Th	5:29:12	5:46:02	6:02:59	6:37:27	7:07:55		12:06:42		17:06:00	17:36:30	18:10:59	18:27:57	18:44:47	9:58:04	-13.808	-16.357	11
02/04/2022	F	5:28:12	5:45:00	6:01:56	6:36:20	7:06:44		12:06:47		17:07:23	17:37:48	18:12:14	18:29:10	18:46:00	10:00:40	-13.903	-16.057	19
02/05/2022	Sat	5:27:09	5:43:57	6:00:51	6:35:11	7:05:30		12:06:52		17:08:47	17:39:07	18:13:29	18:30:24	18:47:13	10:03:16	-13.984	-15.753	27
02/06/2022	Sun	5:26:05	5:42:51	5:59:45	6:34:01	7:04:16		12:06:56		17:10:10	17:40:26	18:14:44	18:31:38	18:48:27	10:05:55	-14.052	-15.445	37
02/07/2022	M	5:24:58	5:41:44	5:58:36	6:32:49	7:02:59		12:06:59		17:11:34	17:41:45	18:15:59	18:32:53	18:49:40	10:08:35	-14.106	-15.132	46
02/08/2022	Tu	5:23:50	5:40:35	5:57:26	6:31:36	7:01:41		12:07:02		17:12:57	17:43:04	18:17:15	18:34:07	18:50:54	10:11:16	-14.147	-14.815	56
02/09/2022	W	5:22:40	5:39:25	5:56:15	6:30:21	7:00:22		12:07:04		17:14:20	17:44:23	18:18:30	18:35:22	18:52:08	10:13:59	-14.174	-14.494	65
02/10/2022	Th	5:21:28	5:38:12	5:55:01	6:29:04	6:59:01		12:07:04		17:15:43	17:45:41	18:19:46	18:36:36	18:53:22	10:16:43	-14.188	-14.168	74
02/11/2022	F	5:20:15	5:36:58	5:53:46	6:27:46	6:57:38		12:07:04		17:17:06	17:47:00	18:21:02	18:37:51	18:54:36	10:19:28	-14.189	-13.839	81
02/12/2022	Sat	5:19:00	5:35:43	5:52:30	6:26:26	6:56:14		12:07:04		17:18:29	17:48:19	18:22:17	18:39:06	18:55:50	10:22:15	-14.177	-13.506	88
02/13/2022	Sun	5:17:43	5:34:25	5:51:12	6:25:05	6:54:49		12:07:02		17:19:52	17:49:38	18:23:33	18:40:21	18:57:05	10:25:03	-14.152	-13.170	94
02/14/2022	M	5:16:24	5:33:07	5:49:52	6:23:43	6:53:23		12:07:00		17:21:14	17:50:56	18:24:49	18:41:36	18:58:20	10:27:52	-14.115	-12.830	97
02/15/2022	Tu	5:15:04	5:31:46	5:48:31	6:22:19	6:51:55		12:06:57		17:22:37	17:52:14	18:26:05	18:42:51	18:59:35	10:30:42	-14.066	-12.486	100
02/16/2022	W	5:13:42	5:30:24	5:47:08	6:20:53	6:50:26		12:06:53		17:23:59	17:53:33	18:27:20	18:44:06	19:00:50	10:33:33	-14.004	-12.139	100
02/17/2022	Th	5:12:19	5:29:01	5:45:44	6:19:27	6:48:56		12:06:49		17:25:20	17:54:51	18:28:36	18:45:21	19:02:05	10:36:25	-13.931	-11.789	98
02/18/2022	F	5:10:54	5:27:36	5:44:19	6:17:59	6:47:24		12:06:44		17:26:42	17:56:09	18:29:52	18:46:37	19:03:20	10:39:18	-13.847	-11.436	93
02/19/2022	Sat	5:09:28	5:26:10	5:42:52	6:16:30	6:45:52		12:06:38		17:28:03	17:57:27	18:31:08	18:47:52	19:04:36	10:42:11	-13.751	-11.080	87
02/20/2022	Sun	5:08:00	5:24:42	5:41:24	6:15:00	6:44:18		12:06:32		17:29:24	17:58:45	18:32:24	18:49:08	19:05:51	10:45:06	-13.645	-10.721	79
02/21/2022	M	5:06:31	5:23:13	5:39:54	6:13:29	6:42:44		12:06:25		17:30:45	18:00:03	18:33:40	18:50:23	19:07:07	10:48:01	-13.528	-10.359	70
02/22/2022	Tu	5:05:00	5:21:42	5:38:24	6:11:56	6:41:08		12:06:17		17:32:06	18:01:20	18:34:56	18:51:39	19:08:23	10:50:57	-13.401	-9.994	59
02/23/2022	W	5:03:28	5:20:10	5:36:52	6:10:23	6:39:32		12:06:09		17:33:26	18:02:38	18:36:11	18:52:55	19:09:39	10:53:54	-13.263	-9.627	48
02/24/2022	Th	5:01:55	5:18:37	5:35:19	6:08:48	6:37:55		12:06:00		17:34:46	18:03:55	18:37:27	18:54:11	19:10:56	10:56:51	-13.116	-9.257	36
02/25/2022	F	5:00:20	5:17:03	5:33:44	6:07:12	6:36:16		12:05:51		17:36:06	18:05:12	18:38:43	18:55:27	19:12:13	10:59:49	-12.960	-8.885	26
02/26/2022	Sat	4:58:44	5:15:28	5:32:09	6:05:36	6:34:37		12:05:41		17:37:25	18:06:29	18:40:00	18:56:43	19:13:29	11:02:48	-12.795	-8.511	16
02/27/2022	Sun	4:57:06	5:13:51	5:30:33	6:03:58	6:32:57		12:05:30		17:38:45	18:07:46	18:41:16	18:58:00	19:14:47	11:05:47	-12.620	-8.135	9
02/28/2022	M	4:55:28	5:12:13	5:28:55	6:02:20	6:31:17		12:05:19		17:40:04	18:09:03	18:42:32	18:59:16	19:16:04	11:08:47	-12.437	-7.757	3
03/01/2022	Tu	4:53:48	5:10:34	5:27:16	6:00:40	6:29:35		12:05:08		17:41:22	18:10:20	18:43:48	19:00:33	19:17:22	11:11:47	-12.246	-7.376	1
03/02/2022	W	4:52:06	5:08:54	5:25:36	5:59:00	6:27:53		12:04:56		17:42:41	18:11:37	18:45:04	19:01:49	19:18:39	11:14:48	-12.046	-6.994	0
03/03/2022	Th	4:50:24	5:07:12	5:23:56	5:57:19	6:26:10		12:04:43		17:43:59	18:12:53	18:46:20	19:03:06	19:19:57	11:17:49	-11.838	-6.611	3
03/04/2022	F	4:48:41	5:05:30	5:22:14	5:55:37	6:24:27		12:04:30		17:45:17	18:14:09	18:47:37	19:04:23	19:21:16	11:20:50	-11.623	-6.226	7
03/05/2022	Sat	4:46:56	5:03:47	5:20:31	5:53:55	6:22:43		12:04:17		17:46:34	18:15:26	18:48:53	19:05:41	19:22:34	11:23:52	-11.400	-5.839	13
03/06/2022	Sun	4:45:10	5:02:02	5:18:48	5:52:11	6:20:58		12:04:03		17:47:52	18:16:42	18:50:09	19:06:58	19:23:53	11:26:54	-11.169	-5.451	21
03/07/2022	M	4:43:23	5:00:17	5:17:03	5:50:27	6:19:13		12:03:49		17:49:09	18:17:58	18:51:26	19:08:15	19:25:12	11:29:56	-10.932	-5.062	29
03/08/2022	Tu	4:41:35	4:58:30	5:15:18	5:48:43	6:17:27		12:03:34		17:50:26	18:19:13	18:52:42	19:09:33	19:26:32	11:32:58	-10.688	-4.672	38
03/09/2022	W	4:39:46	4:56:43	5:13:32	5:46:57	6:15:41		12:03:19		17:51:42	18:20:29	18:53:59	19:10:51	19:27:51	11:36:01	-10.438	-4.281	47
03/10/2022	Th	4:37:56	4:54:55	5:11:45	5:45:11	6:13:54		12:03:04		17:52:58	18:21:45	18:55:16	19:12:09	19:29:11	11:39:04	-10.182	-3.889	57

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End	End 15-	End Astro-	Length	Noon	Noon	9 PM
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight													
03/11/2022	F	4:36:05	4:53:06	5:09:57	5:43:25	6:12:07		12:02:48		17:54:14	18:23:00	18:56:32	19:13:27	19:30:32	11:42:07	-9.920	-3.496	66
03/12/2022	Sat	4:34:13	4:51:16	5:08:09	5:41:38	6:10:20		12:02:32		17:55:30	18:24:15	18:57:49	19:14:46	19:31:52	11:45:10	-9.653	-3.102	75
03/13/2022	Sun*	5:32:20	5:49:25	6:06:20	6:39:50	7:08:32		13:02:16		18:56:45	19:25:31	19:59:06	20:16:04	20:33:13	11:48:14	-9.381	-2.708	82
03/14/2022	M*	5:30:26	5:47:33	6:04:30	6:38:02	7:06:44		13:01:59		18:58:00	19:26:46	20:00:23	20:17:23	20:34:35	11:51:17	-9.105	-2.314	89
03/15/2022	Tu*	5:28:31	5:45:41	6:02:39	6:36:13	7:04:55		13:01:43		18:59:15	19:28:01	20:01:41	20:18:42	20:35:56	11:54:20	-8.824	-1.919	95
03/16/2022	W*	5:26:35	5:43:48	6:00:48	6:34:24	7:03:06		13:01:25		19:00:30	19:29:16	20:02:58	20:20:02	20:37:18	11:57:24	-8.539	-1.524	98
03/17/2022	Th*	5:24:39	5:41:54	5:58:56	6:32:35	7:01:17		13:01:08		19:01:45	19:30:31	20:04:16	20:21:21	20:38:41	12:00:27	-8.251	-1.129	100
03/18/2022	F*	5:22:41	5:40:00	5:57:04	6:30:45	6:59:28		13:00:51		19:02:59	19:31:46	20:05:33	20:22:41	20:40:04	12:03:31	-7.960	-0.734	99
03/19/2022	Sat*	5:20:43	5:38:05	5:55:11	6:28:55	6:57:39		13:00:33		19:04:14	19:33:02	20:06:51	20:24:02	20:41:28	12:06:35	-7.666	-0.338	96
03/20/2022	Sun*	5:18:44	5:36:09	5:53:18	6:27:05	6:55:49	7:01:29	13:00:15	18:57:37	19:05:28	19:34:17	20:08:10	20:25:22	20:42:52	12:09:38	-7.371	0.057	90
03/21/2022	M*	5:16:45	5:34:13	5:51:24	6:25:14	6:54:00	7:02:49	12:59:57	18:55:41	19:06:42	19:35:32	20:09:28	20:26:44	20:44:16	12:12:42	-7.073	0.452	83
03/22/2022	Tu*	5:14:44	5:32:16	5:49:30	6:23:23	6:52:10	7:04:09	12:59:39	18:53:46	19:07:56	19:36:47	20:10:47	20:28:05	20:45:41	12:15:45	-6.773	0.846	73
03/23/2022	W*	5:12:43	5:30:18	5:47:35	6:21:32	6:50:21	7:05:29	12:59:21	18:51:50	19:09:09	19:38:02	20:12:06	20:29:27	20:47:07	12:18:49	-6.473	1.240	63
03/24/2022	Th*	5:10:42	5:28:21	5:45:40	6:19:41	6:48:31	7:06:49	12:59:03	18:49:55	19:10:23	19:39:17	20:13:25	20:30:49	20:48:33	12:21:52	-6.172	1.634	51
03/25/2022	F*	5:08:39	5:26:22	5:43:45	6:17:50	6:46:41	7:08:08	12:58:45	18:47:59	19:11:37	19:40:33	20:14:45	20:32:12	20:50:00	12:24:55	-5.871	2.027	40
03/26/2022	Sat*	5:06:37	5:24:23	5:41:49	6:15:58	6:44:52	7:09:27	12:58:27	18:46:04	19:12:50	19:41:48	20:16:05	20:33:35	20:51:27	12:27:58	-5.570	2.419	29
03/27/2022	Sun*	5:04:33	5:22:24	5:39:54	6:14:07	6:43:02	7:10:47	12:58:09	18:44:09	19:14:04	19:43:04	20:17:25	20:34:59	20:52:55	12:31:01	-5.269	2.811	20
03/28/2022	M*	5:02:29	5:20:24	5:37:57	6:12:16	6:41:13	7:12:06	12:57:51	18:42:14	19:15:17	19:44:20	20:18:45	20:36:23	20:54:24	12:34:04	-4.968	3.202	12
03/29/2022	Tu*	5:00:25	5:18:24	5:36:01	6:10:24	6:39:24	7:13:25	12:57:33	18:40:19	19:16:30	19:45:35	20:20:06	20:37:47	20:55:53	12:37:06	-4.669	3.591	5
03/30/2022	W*	4:58:19	5:16:24	5:34:04	6:08:33	6:37:35	7:14:44	12:57:15	18:38:25	19:17:44	19:46:51	20:21:27	20:39:13	20:57:23	12:40:09	-4.371	3.980	2
03/31/2022	Th*	4:56:14	5:14:23	5:32:07	6:06:41	6:35:46	7:16:03	12:56:58	18:36:31	19:18:57	19:48:07	20:22:49	20:40:38	20:58:54	12:43:11	-4.074	4.367	0
04/01/2022	F*	4:54:08	5:12:22	5:30:11	6:04:50	6:33:58	7:17:22	12:56:40	18:34:37	19:20:10	19:49:24	20:24:11	20:42:04	21:00:25	12:46:12	-3.779	4.753	1
04/02/2022	Sat*	4:52:01	5:10:21	5:28:13	6:02:58	6:32:09	7:18:41	12:56:22	18:32:44	19:21:23	19:50:40	20:25:33	20:43:31	21:01:57	12:49:14	-3.485	5.138	4
04/03/2022	Sun*	4:49:55	5:08:20	5:26:16	6:01:07	6:30:21	7:20:00	12:56:05	18:30:51	19:22:37	19:51:56	20:26:56	20:44:58	21:03:29	12:52:15	-3.194	5.521	8
04/04/2022	M*	4:47:47	5:06:18	5:24:19	5:59:16	6:28:34	7:21:18	12:55:47	18:28:58	19:23:50	19:53:13	20:28:19	20:46:25	21:05:02	12:55:16	-2.906	5.902	14
04/05/2022	Tu*	4:45:40	5:04:16	5:22:22	5:57:26	6:26:47	7:22:37	12:55:30	18:27:06	19:25:03	19:54:29	20:29:42	20:47:53	21:06:36	12:58:16	-2.620	6.282	22
04/06/2022	W*	4:43:32	5:02:14	5:20:25	5:55:35	6:25:00	7:23:55	12:55:13	18:25:14	19:26:16	19:55:46	20:31:06	20:49:22	21:08:11	13:01:16	-2.337	6.660	30
04/07/2022	Th*	4:41:24	5:00:12	5:18:27	5:53:45	6:23:13	7:25:14	12:54:57	18:23:23	19:27:29	19:57:03	20:32:30	20:50:51	21:09:46	13:04:16	-2.057	7.036	39
04/08/2022	F*	4:39:15	4:58:10	5:16:30	5:51:55	6:21:27	7:26:32	12:54:40	18:21:32	19:28:42	19:58:20	20:33:54	20:52:20	21:11:22	13:07:15	-1.781	7.410	49
04/09/2022	Sat*	4:37:06	4:56:08	5:14:33	5:50:05	6:19:42	7:27:51	12:54:24	18:19:42	19:29:55	19:59:37	20:35:19	20:53:50	21:12:59	13:10:13	-1.509	7.782	58
04/10/2022	Sun*	4:34:57	4:54:06	5:12:36	5:48:16	6:17:56	7:29:09	12:54:08	18:17:52	19:31:08	20:00:55	20:36:44	20:55:21	21:14:37	13:13:11	-1.241	8.152	68
04/11/2022	M*	4:32:48	4:52:03	5:10:39	5:46:27	6:16:12	7:30:27	12:53:52	18:16:03	19:32:20	20:02:12	20:38:09	20:56:52	21:16:15	13:16:08	-0.978	8.519	76
04/12/2022	Tu*	4:30:39	4:50:01	5:08:43	5:44:38	6:14:28	7:31:46	12:53:36	18:14:15	19:33:33	20:03:29	20:39:35	20:58:23	21:17:54	13:19:05	-0.719	8.884	84
04/13/2022	W*	4:28:29	4:47:59	5:06:46	5:42:50	6:12:45	7:33:04	12:53:21	18:12:27	19:34:46	20:04:47	20:41:01	20:59:55	21:19:34	13:22:01	-0.465	9.246	91
04/14/2022	Th*	4:26:19	4:45:57	5:04:50	5:41:03	6:11:02	7:34:22	12:53:06	18:10:40	19:35:59	20:06:05	20:42:28	21:01:28	21:21:14	13:24:57	-0.216	9.606	96
04/15/2022	F*	4:24:10	4:43:55	5:02:55	5:39:16	6:09:20	7:35:40	12:52:51	18:08:54	19:37:12	20:07:23	20:43:55	21:03:01	21:22:55	13:27:52	0.027	9.963	99
04/16/2022	Sat*	4:22:00	4:41:53	5:00:59	5:37:29	6:07:39	7:36:58	12:52:37	18:07:09	19:38:25	20:08:41	20:45:22	21:04:35	21:24:37	13:30:46	0.264	10.318	100
04/17/2022	Easter*	4:19:50	4:39:52	4:59:04	5:35:44	6:05:58	7:38:16	12:52:23	18:05:24	19:39:37	20:09:59	20:46:49	21:06:09	21:26:20	13:33:39	0.494	10.669	98
04/18/2022	M*	4:17:40	4:37:51	4:57:10	5:33:58	6:04:18	7:39:34	12:52:10	18:03:41	19:40:50	20:11:17	20:48:17	21:07:44	21:28:03	13:36:32	0.718	11.018	93
04/19/2022	Tu*	4:15:31	4:35:50	4:55:15	5:32:14	6:02:40	7:40:52	12:51:57	18:01:58	19:42:03	20:12:36	20:49:46	21:09:19	21:29:47	13:39:24	0.936	11.363	85

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End	End 15-	End Astro-	Length of Day	Noon	sun decli-	9 PM
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight							Nautical Twilight	deg. Twilight	Eqn Time (min.)		nation (deg.)	Lunar Illum. (pct.)	
04/20/2022	W*	4:13:21	4:33:49	4:53:22	5:30:30	6:01:01	7:42:10	12:51:44	18:00:16	19:43:16	20:13:54	20:51:14	21:10:54	21:31:32	13:42:14	1.146	11.706	76
04/21/2022	Th*	4:11:12	4:31:49	4:51:29	5:28:47	5:59:24	7:43:28	12:51:32	17:58:35	19:44:29	20:15:13	20:52:43	21:12:31	21:33:18	13:45:04	1.348	12.045	66
04/22/2022	F*	4:09:02	4:29:49	4:49:36	5:27:05	5:57:48	7:44:45	12:51:20	17:56:55	19:45:41	20:16:32	20:54:13	21:14:07	21:35:04	13:47:53	1.543	12.381	54
04/23/2022	Sat*	4:06:53	4:27:50	4:47:44	5:25:23	5:56:13	7:46:03	12:51:09	17:55:17	19:46:54	20:17:51	20:55:42	21:15:45	21:36:51	13:50:41	1.731	12.714	43
04/24/2022	Sun*	4:04:44	4:25:51	4:45:53	5:23:43	5:54:38	7:47:21	12:50:59	17:53:39	19:48:07	20:19:10	20:57:12	21:17:22	21:38:39	13:53:29	1.910	13.043	32
04/25/2022	M*	4:02:36	4:23:52	4:44:02	5:22:03	5:53:05	7:48:38	12:50:48	17:52:02	19:49:20	20:20:29	20:58:42	21:19:00	21:40:28	13:56:14	2.080	13.369	23
04/26/2022	Tu*	4:00:28	4:21:54	4:42:12	5:20:25	5:51:33	7:49:56	12:50:39	17:50:27	19:50:32	20:21:48	21:00:13	21:20:39	21:42:17	13:58:59	2.243	13.691	14
04/27/2022	W*	3:58:20	4:19:57	4:40:23	5:18:47	5:50:02	7:51:13	12:50:29	17:48:53	19:51:45	20:23:07	21:01:43	21:22:18	21:44:07	14:01:43	2.396	14.010	8
04/28/2022	Th*	3:56:12	4:18:01	4:38:35	5:17:10	5:48:32	7:52:30	12:50:21	17:47:20	19:52:57	20:24:26	21:03:14	21:23:57	21:45:58	14:04:25	2.542	14.324	3
04/29/2022	F*	3:54:05	4:16:05	4:36:47	5:15:34	5:47:03	7:53:47	12:50:12	17:45:48	19:54:09	20:25:45	21:04:45	21:25:37	21:47:49	14:07:06	2.678	14.635	1
04/30/2022	Sat*	3:51:58	4:14:10	4:35:01	5:14:00	5:45:35	7:55:04	12:50:05	17:44:18	19:55:21	20:27:04	21:06:16	21:27:17	21:49:40	14:09:46	2.806	14.941	0
05/01/2022	Sun*	3:49:52	4:12:16	4:33:15	5:12:27	5:44:09	7:56:20	12:49:58	17:42:48	19:56:33	20:28:23	21:07:48	21:28:57	21:51:32	14:12:25	2.924	15.244	2
05/02/2022	M*	3:47:47	4:10:22	4:31:31	5:10:54	5:42:43	7:57:36	12:49:51	17:41:21	19:57:45	20:29:42	21:09:19	21:30:37	21:53:25	14:15:02	3.034	15.542	5
05/03/2022	Tu*	3:45:42	4:08:29	4:29:47	5:09:23	5:41:20	7:58:52	12:49:45	17:39:54	19:58:56	20:31:01	21:10:50	21:32:18	21:55:18	14:17:37	3.135	15.836	10
05/04/2022	W*	3:43:38	4:06:38	4:28:05	5:07:53	5:39:57	8:00:08	12:49:40	17:38:29	20:00:08	20:32:19	21:12:21	21:33:58	21:57:12	14:20:11	3.226	16.126	16
05/05/2022	Th*	3:41:34	4:04:47	4:26:24	5:06:25	5:38:36	8:01:23	12:49:35	17:37:06	20:01:19	20:33:38	21:13:52	21:35:39	21:59:05	14:22:43	3.309	16.411	24
05/06/2022	F*	3:39:31	4:02:58	4:24:44	5:04:58	5:37:16	8:02:38	12:49:30	17:35:44	20:02:29	20:34:56	21:15:23	21:37:19	22:01:00	14:25:13	3.382	16.691	32
05/07/2022	Sat*	3:37:29	4:01:09	4:23:05	5:03:32	5:35:58	8:03:52	12:49:26	17:34:23	20:03:39	20:36:13	21:16:54	21:39:00	22:02:54	14:27:42	3.447	16.967	42
05/08/2022	Sun*	3:35:28	3:59:22	4:21:27	5:02:08	5:34:41	8:05:06	12:49:23	17:33:04	20:04:49	20:37:31	21:18:25	21:40:41	22:04:48	14:30:09	3.502	17.238	51
05/09/2022	M*	3:33:28	3:57:36	4:19:51	5:00:45	5:33:25	8:06:20	12:49:20	17:31:47	20:05:59	20:38:47	21:19:55	21:42:21	22:06:43	14:32:34	3.547	17.505	61
05/10/2022	Tu*	3:31:29	3:55:51	4:18:16	4:59:23	5:32:11	8:07:33	12:49:18	17:30:31	20:07:08	20:40:04	21:21:25	21:44:01	22:08:37	14:34:56	3.584	17.766	71
05/11/2022	W*	3:29:31	3:54:07	4:16:43	4:58:03	5:30:59	8:08:45	12:49:16	17:29:17	20:08:16	20:41:20	21:22:55	21:45:41	22:10:32	14:37:17	3.612	18.022	80
05/12/2022	Th*	3:27:34	3:52:25	4:15:11	4:56:45	5:29:48	8:09:57	12:49:15	17:28:05	20:09:24	20:42:36	21:24:24	21:47:20	22:12:27	14:39:36	3.630	18.274	88
05/13/2022	F*	3:25:38	3:50:44	4:13:41	4:55:28	5:28:39	8:11:08	12:49:15	17:26:55	20:10:32	20:43:51	21:25:53	21:49:00	22:14:21	14:41:53	3.638	18.520	94
05/14/2022	Sat*	3:23:44	3:49:05	4:12:12	4:54:13	5:27:32	8:12:18	12:49:15	17:25:46	20:11:39	20:45:05	21:27:21	21:50:38	22:16:15	14:44:07	3.638	18.761	98
05/15/2022	Sun*	3:21:51	3:47:28	4:10:45	4:53:00	5:26:26	8:13:28	12:49:15	17:24:39	20:12:45	20:46:19	21:28:48	21:52:16	22:18:09	14:46:19	3.628	18.996	100
05/16/2022	M*	3:20:00	3:45:52	4:09:20	4:51:49	5:25:22	8:14:37	12:49:17	17:23:34	20:13:51	20:47:32	21:30:15	21:53:54	22:20:02	14:48:28	3.609	19.227	99
05/17/2022	Tu*	3:18:10	3:44:18	4:07:56	4:50:39	5:24:20	8:15:46	12:49:18	17:22:31	20:14:55	20:48:44	21:31:41	21:55:31	22:21:55	14:50:36	3.581	19.452	94
05/18/2022	W*	3:16:21	3:42:45	4:06:35	4:49:31	5:23:20	8:16:53	12:49:21	17:21:30	20:16:00	20:49:56	21:33:07	21:57:07	22:23:47	14:52:40	3.543	19.671	88
05/19/2022	Th*	3:14:34	3:41:15	4:05:15	4:48:25	5:22:21	8:18:00	12:49:23	17:20:30	20:17:03	20:51:07	21:34:31	21:58:42	22:25:39	14:54:42	3.495	19.885	79
05/20/2022	F*	3:12:50	3:39:46	4:03:57	4:47:21	5:21:24	8:19:05	12:49:27	17:19:33	20:18:06	20:52:17	21:35:55	22:00:16	22:27:30	14:56:42	3.439	20.093	68
05/21/2022	Sat*	3:11:07	3:38:20	4:02:41	4:46:19	5:20:30	8:20:10	12:49:31	17:18:38	20:19:08	20:53:26	21:37:17	22:01:50	22:29:20	14:58:38	3.373	20.296	57
05/22/2022	Sun*	3:09:26	3:36:56	4:01:28	4:45:19	5:19:37	8:21:14	12:49:35	17:17:45	20:20:09	20:54:34	21:38:39	22:03:22	22:31:09	15:00:32	3.298	20.492	46
05/23/2022	M*	3:07:47	3:35:33	4:00:17	4:44:21	5:18:46	8:22:17	12:49:40	17:16:54	20:21:09	20:55:41	21:39:59	22:04:53	22:32:57	15:02:23	3.214	20.683	36
05/24/2022	Tu*	3:06:10	3:34:14	3:59:07	4:43:25	5:17:57	8:23:19	12:49:46	17:16:05	20:22:08	20:56:47	21:41:18	22:06:23	22:34:43	15:04:11	3.121	20.868	26
05/25/2022	W*	3:04:36	3:32:56	3:58:01	4:42:31	5:17:10	8:24:19	12:49:52	17:15:18	20:23:06	20:57:52	21:42:36	22:07:51	22:36:29	15:05:56	3.020	21.047	17
05/26/2022	Th*	3:03:04	3:31:41	3:56:56	4:41:39	5:16:26	8:25:19	12:49:59	17:14:34	20:24:03	20:58:56	21:43:52	22:09:18	22:38:12	15:07:37	2.910	21.220	10
05/27/2022	F*	3:01:34	3:30:28	3:55:54	4:40:50	5:15:43	8:26:17	12:50:06	17:13:51	20:24:59	20:59:59	21:45:07	22:10:43	22:39:54	15:09:16	2.792	21.387	5
05/28/2022	Sat*	3:00:07	3:29:18	3:54:54	4:40:03	5:15:02	8:27:14	12:50:13	17:13:11	20:25:53	21:01:00	21:46:21	22:12:07	22:41:34	15:10:51	2.666	21.548	2
05/29/2022	Sun*	2:58:44	3:28:11	3:53:57	4:39:18	5:14:24	8:28:09	12:50:21	17:12:33	20:26:47	21:01:59	21:47:32	22:13:28	22:43:13	15:12:23	2.533	21.703	0

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15- deg. Twilight	End Astro- nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon	9 PM
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight												sun decli- nation (deg.)	Lunar Illum. (pct.)
05/30/2022	M*	2:57:22	3:27:07	3:53:03	4:38:35	5:13:48	8:29:03	12:50:30	17:11:58	20:27:39	21:02:58	21:48:42	22:14:48	22:44:49	15:13:51	2.392	21.851	0
05/31/2022	Tu*	2:56:04	3:26:05	3:52:11	4:37:55	5:13:13	8:29:56	12:50:38	17:11:24	20:28:30	21:03:54	21:49:50	22:16:06	22:46:22	15:15:16	2.244	21.993	3
06/01/2022	W*	2:54:49	3:25:06	3:51:22	4:37:17	5:12:41	8:30:47	12:50:48	17:10:53	20:29:19	21:04:49	21:50:56	22:17:21	22:47:54	15:16:38	2.090	22.128	6
06/02/2022	Th*	2:53:38	3:24:10	3:50:35	4:36:42	5:12:12	8:31:36	12:50:57	17:10:25	20:30:07	21:05:43	21:52:00	22:18:34	22:49:22	15:17:56	1.929	22.257	12
06/03/2022	F*	2:52:29	3:23:18	3:49:51	4:36:09	5:11:44	8:32:24	12:51:07	17:09:58	20:30:54	21:06:34	21:53:02	22:19:45	22:50:48	15:19:10	1.763	22.380	18
06/04/2022	Sat*	2:51:25	3:22:28	3:49:11	4:35:38	5:11:19	8:33:10	12:51:18	17:09:34	20:31:39	21:07:24	21:54:02	22:20:53	22:52:11	15:20:20	1.590	22.496	26
06/05/2022	Sun*	2:50:24	3:21:41	3:48:33	4:35:10	5:10:55	8:33:55	12:51:28	17:09:12	20:32:22	21:08:13	21:54:59	22:21:58	22:53:30	15:21:27	1.413	22.605	35
06/06/2022	M*	2:49:26	3:20:58	3:47:57	4:34:44	5:10:34	8:34:37	12:51:39	17:08:53	20:33:04	21:08:59	21:55:54	22:23:01	22:54:47	15:22:29	1.230	22.708	45
06/07/2022	Tu*	2:48:33	3:20:18	3:47:25	4:34:21	5:10:16	8:35:18	12:51:51	17:08:36	20:33:44	21:09:43	21:56:47	22:24:01	22:56:00	15:23:28	1.043	22.804	55
06/08/2022	W*	2:47:43	3:19:42	3:46:56	4:34:00	5:09:59	8:35:57	12:52:02	17:08:21	20:34:22	21:10:25	21:57:37	22:24:58	22:57:09	15:24:23	0.852	22.893	66
06/09/2022	Th*	2:46:58	3:19:09	3:46:30	4:33:42	5:09:45	8:36:34	12:52:14	17:08:09	20:34:58	21:11:05	21:58:24	22:25:52	22:58:14	15:25:14	0.656	22.976	75
06/10/2022	F*	2:46:17	3:18:39	3:46:07	4:33:26	5:09:33	8:37:09	12:52:26	17:07:59	20:35:33	21:11:43	21:59:09	22:26:43	22:59:16	15:26:01	0.457	23.052	84
06/11/2022	Sat*	2:45:40	3:18:13	3:45:47	4:33:13	5:09:23	8:37:42	12:52:38	17:07:51	20:36:06	21:12:19	21:59:51	22:27:30	23:00:14	15:26:43	0.255	23.121	92
06/12/2022	Sun*	2:45:08	3:17:51	3:45:30	4:33:02	5:09:15	8:38:13	12:52:50	17:07:46	20:36:37	21:12:53	22:00:30	22:28:14	23:01:07	15:27:22	0.050	23.184	97
06/13/2022	M*	2:44:40	3:17:32	3:45:16	4:32:54	5:09:10	8:38:42	12:53:03	17:07:43	20:37:06	21:13:24	22:01:07	22:28:55	23:01:56	15:27:56	-0.157	23.239	100
06/14/2022	Tu*	2:44:17	3:17:17	3:45:06	4:32:48	5:09:07	8:39:09	12:53:15	17:07:42	20:37:33	21:13:54	22:01:40	22:29:33	23:02:40	15:28:26	-0.368	23.288	99
06/15/2022	W*	2:43:58	3:17:06	3:44:58	4:32:45	5:09:06	8:39:34	12:53:28	17:07:44	20:37:58	21:14:21	22:02:11	22:30:06	23:03:20	15:28:52	-0.580	23.330	96
06/16/2022	Th*	2:43:44	3:16:58	3:44:54	4:32:44	5:09:07	8:39:56	12:53:41	17:07:48	20:38:21	21:14:45	22:02:38	22:30:37	23:03:56	15:29:14	-0.794	23.365	90
06/17/2022	F*	2:43:35	3:16:55	3:44:53	4:32:46	5:09:10	8:40:17	12:53:54	17:07:54	20:38:42	21:15:07	22:03:03	22:31:04	23:04:27	15:29:32	-1.009	23.393	81
06/18/2022	Sat*	2:43:31	3:16:54	3:44:55	4:32:51	5:09:16	8:40:35	12:54:07	17:08:03	20:39:01	21:15:27	22:03:24	22:31:27	23:04:53	15:29:45	-1.225	23.414	72
06/19/2022	Sun*	2:43:32	3:16:58	3:45:00	4:32:58	5:09:24	8:40:51	12:54:20	17:08:14	20:39:18	21:15:44	22:03:43	22:31:46	23:05:14	15:29:54	-1.443	23.429	61
06/20/2022	M*	2:43:38	3:17:06	3:45:09	4:33:07	5:09:34	8:41:05	12:54:33	17:08:27	20:39:32	21:15:59	22:03:58	22:32:02	23:05:30	15:29:59	-1.660	23.437	50
06/21/2022	Tu*	2:43:48	3:17:17	3:45:20	4:33:19	5:09:46	8:41:16	12:54:46	17:08:43	20:39:45	21:16:12	22:04:10	22:32:14	23:05:42	15:29:59	-1.878	23.437	40
06/22/2022	W*	2:44:03	3:17:32	3:45:35	4:33:33	5:10:00	8:41:25	12:54:59	17:09:01	20:39:55	21:16:22	22:04:19	22:32:22	23:05:48	15:29:55	-2.096	23.431	30
06/23/2022	Th*	2:44:24	3:17:50	3:45:53	4:33:50	5:10:17	8:41:32	12:55:12	17:09:20	20:40:04	21:16:29	22:04:25	22:32:26	23:05:50	15:29:47	-2.312	23.418	21
06/24/2022	F*	2:44:49	3:18:13	3:46:14	4:34:10	5:10:35	8:41:36	12:55:25	17:09:42	20:40:10	21:16:34	22:04:28	22:32:27	23:05:47	15:29:34	-2.528	23.398	14
06/25/2022	Sat*	2:45:18	3:18:39	3:46:37	4:34:31	5:10:56	8:41:38	12:55:38	17:10:07	20:40:13	21:16:36	22:04:27	22:32:24	23:05:39	15:29:18	-2.741	23.371	8
06/26/2022	Sun*	2:45:53	3:19:08	3:47:04	4:34:55	5:11:18	8:41:38	12:55:50	17:10:33	20:40:15	21:16:36	22:04:23	22:32:17	23:05:26	15:28:57	-2.953	23.337	4
06/27/2022	M*	2:46:32	3:19:41	3:47:34	4:35:21	5:11:43	8:41:35	12:56:03	17:11:01	20:40:14	21:16:33	22:04:16	22:32:06	23:05:08	15:28:31	-3.162	23.297	1
06/28/2022	Tu*	2:47:15	3:20:18	3:48:07	4:35:50	5:12:09	8:41:30	12:56:15	17:11:31	20:40:11	21:16:28	22:04:06	22:31:51	23:04:45	15:28:02	-3.369	23.250	0
06/29/2022	W*	2:48:03	3:20:57	3:48:42	4:36:21	5:12:37	8:41:23	12:56:27	17:12:04	20:40:06	21:16:20	22:03:53	22:31:33	23:04:18	15:27:28	-3.571	23.195	1
06/30/2022	Th*	2:48:55	3:21:41	3:49:21	4:36:53	5:13:08	8:41:12	12:56:39	17:12:37	20:39:57	21:16:08	22:03:35	22:31:10	23:03:45	15:26:51	-3.770	23.134	4
07/01/2022	F*	2:49:50	3:22:26	3:50:01	4:37:27	5:13:39	8:40:59	12:56:50	17:13:13	20:39:47	21:15:55	22:03:15	22:30:44	23:03:09	15:26:09	-3.965	23.067	8
07/02/2022	Sat*	2:50:50	3:23:15	3:50:44	4:38:05	5:14:12	8:40:44	12:57:01	17:13:50	20:39:35	21:15:39	22:02:52	22:30:15	23:02:28	15:25:23	-4.155	22.992	14
07/03/2022	Sun*	2:51:54	3:24:08	3:51:30	4:38:44	5:14:48	8:40:27	12:57:13	17:14:30	20:39:21	21:15:21	22:02:26	22:29:42	23:01:43	15:24:33	-4.340	22.911	22
07/04/2022	M*	2:53:02	3:25:03	3:52:19	4:39:25	5:15:25	8:40:07	12:57:23	17:15:11	20:39:04	21:15:00	22:01:57	22:29:06	23:00:54	15:23:39	-4.520	22.823	30
07/05/2022	Tu*	2:54:13	3:26:02	3:53:10	4:40:07	5:16:04	8:39:45	12:57:34	17:15:54	20:38:45	21:14:36	22:01:25	22:28:26	23:00:01	15:22:41	-4.693	22.729	40
07/06/2022	W*	2:55:28	3:27:03	3:54:04	4:40:52	5:16:44	8:39:21	12:57:44	17:16:39	20:38:23	21:14:10	22:00:49	22:27:42	22:59:03	15:21:40	-4.861	22.628	50
07/07/2022	Th*	2:56:45	3:28:06	3:54:59	4:41:39	5:17:26	8:38:54	12:57:53	17:17:25	20:38:00	21:13:42	22:00:11	22:26:56	22:58:02	15:20:34	-5.022	22.520	61
07/08/2022	F*	2:58:06	3:29:13	3:55:57	4:42:27	5:18:09	8:38:25	12:58:03	17:18:13	20:37:34	21:13:10	21:59:30	22:26:06	22:56:57	15:19:25	-5.176	22.406	72

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight													
07/09/2022	Sat*	2:59:30	3:30:21	3:56:57	4:43:17	5:18:54	8:37:53	12:58:11	17:19:02	20:37:05	21:12:37	21:58:46	22:25:13	22:55:49	15:18:12	-5.323	22.286	81
07/10/2022	Sun*	3:00:56	3:31:32	3:57:59	4:44:08	5:19:40	8:37:19	12:58:20	17:19:52	20:36:35	21:12:01	21:57:59	22:24:17	22:54:37	15:16:55	-5.463	22.159	90
07/11/2022	M*	3:02:25	3:32:45	3:59:03	4:45:01	5:20:27	8:36:43	12:58:28	17:20:44	20:36:02	21:11:22	21:57:09	22:23:18	22:53:22	15:15:35	-5.595	22.026	96
07/12/2022	Tu*	3:03:56	3:34:00	4:00:09	4:45:56	5:21:16	8:36:04	12:58:35	17:21:37	20:35:27	21:10:41	21:56:17	22:22:16	22:52:04	15:14:11	-5.719	21.887	99
07/13/2022	W*	3:05:29	3:35:17	4:01:16	4:46:52	5:22:06	8:35:23	12:58:42	17:22:32	20:34:50	21:09:58	21:55:22	22:21:11	22:50:42	15:12:44	-5.836	21.741	100
07/14/2022	Th*	3:07:05	3:36:37	4:02:25	4:47:49	5:22:57	8:34:40	12:58:49	17:23:28	20:34:11	21:09:13	21:54:24	22:20:03	22:49:18	15:11:14	-5.944	21.589	97
07/15/2022	F*	3:08:42	3:37:57	4:03:36	4:48:48	5:23:50	8:33:55	12:58:55	17:24:25	20:33:30	21:08:25	21:53:24	22:18:53	22:47:51	15:09:40	-6.044	21.431	92
07/16/2022	Sat*	3:10:21	3:39:20	4:04:48	4:49:48	5:24:43	8:33:08	12:59:00	17:25:23	20:32:46	21:07:35	21:52:22	22:17:40	22:46:22	15:08:03	-6.136	21.267	84
07/17/2022	Sun*	3:12:02	3:40:44	4:06:02	4:50:49	5:25:38	8:32:18	12:59:05	17:26:22	20:32:01	21:06:42	21:51:16	22:16:24	22:44:49	15:06:23	-6.219	21.097	75
07/18/2022	M*	3:13:44	3:42:10	4:07:17	4:51:52	5:26:33	8:31:26	12:59:10	17:27:22	20:31:13	21:05:48	21:50:09	22:15:06	22:43:15	15:04:40	-6.294	20.921	65
07/19/2022	Tu*	3:15:28	3:43:36	4:08:34	4:52:55	5:27:30	8:30:33	12:59:14	17:28:23	20:30:24	21:04:51	21:48:59	22:13:46	22:41:38	15:02:53	-6.360	20.739	55
07/20/2022	W*	3:17:13	3:45:05	4:09:51	4:54:00	5:28:28	8:29:37	12:59:17	17:29:26	20:29:32	21:03:53	21:47:48	22:12:23	22:39:58	15:01:04	-6.417	20.551	45
07/21/2022	Th*	3:18:59	3:46:34	4:11:10	4:55:05	5:29:26	8:28:39	12:59:20	17:30:29	20:28:38	21:02:52	21:46:33	22:10:58	22:38:17	14:59:12	-6.465	20.358	35
07/22/2022	F*	3:20:46	3:48:05	4:12:30	4:56:12	5:30:26	8:27:39	12:59:22	17:31:33	20:27:43	21:01:49	21:45:17	22:09:32	22:36:34	14:57:17	-6.503	20.159	26
07/23/2022	Sat*	3:22:34	3:49:36	4:13:51	4:57:19	5:31:26	8:26:37	12:59:24	17:32:38	20:26:45	21:00:44	21:43:59	22:08:03	22:34:48	14:55:20	-6.533	19.954	18
07/24/2022	Sun*	3:24:23	3:51:09	4:15:12	4:58:27	5:32:27	8:25:33	12:59:25	17:33:44	20:25:46	20:59:38	21:42:39	22:06:32	22:33:01	14:53:20	-6.552	19.744	12
07/25/2022	M*	3:26:12	3:52:42	4:16:35	4:59:36	5:33:28	8:24:27	12:59:26	17:34:50	20:24:45	20:58:29	21:41:17	22:04:59	22:31:12	14:51:17	-6.563	19.528	6
07/26/2022	Tu*	3:28:02	3:54:16	4:17:58	5:00:46	5:34:31	8:23:20	12:59:26	17:35:57	20:23:42	20:57:19	21:39:53	22:03:24	22:29:22	14:49:11	-6.563	19.307	3
07/27/2022	W*	3:29:53	3:55:51	4:19:22	5:01:57	5:35:34	8:22:10	12:59:25	17:37:05	20:22:37	20:56:06	21:38:27	22:01:48	22:27:30	14:47:04	-6.554	19.080	1
07/28/2022	Th*	3:31:43	3:57:26	4:20:47	5:03:08	5:36:37	8:20:59	12:59:24	17:38:13	20:21:31	20:54:52	21:36:59	22:00:10	22:25:36	14:44:54	-6.534	18.848	0
07/29/2022	F*	3:33:34	3:59:01	4:22:12	5:04:19	5:37:41	8:19:46	12:59:22	17:39:22	20:20:23	20:53:37	21:35:30	21:58:30	22:23:41	14:42:41	-6.504	18.611	2
07/30/2022	Sat*	3:35:26	4:00:37	4:23:38	5:05:31	5:38:46	8:18:31	12:59:20	17:40:31	20:19:13	20:52:19	21:33:59	21:56:49	22:21:45	14:40:27	-6.465	18.369	5
07/31/2022	Sun*	3:37:17	4:02:14	4:25:04	5:06:44	5:39:51	8:17:15	12:59:17	17:41:41	20:18:01	20:51:00	21:32:26	21:55:06	22:19:48	14:38:10	-6.415	18.122	11
08/01/2022	M*	3:39:08	4:03:50	4:26:30	5:07:57	5:40:57	8:15:57	12:59:13	17:42:51	20:16:48	20:49:39	21:30:52	21:53:21	22:17:49	14:35:51	-6.354	17.870	18
08/02/2022	Tu*	3:41:00	4:05:27	4:27:57	5:09:10	5:42:02	8:14:37	12:59:09	17:44:02	20:15:33	20:48:17	21:29:16	21:51:36	22:15:49	14:33:30	-6.283	17.613	26
08/03/2022	W*	3:42:51	4:07:04	4:29:24	5:10:24	5:43:09	8:13:15	12:59:04	17:45:13	20:14:16	20:46:53	21:27:39	21:49:49	22:13:48	14:31:08	-6.202	17.351	36
08/04/2022	Th*	3:44:42	4:08:41	4:30:51	5:11:38	5:44:15	8:11:52	12:58:59	17:46:24	20:12:58	20:45:28	21:26:01	21:48:01	22:11:46	14:28:43	-6.111	17.085	46
08/05/2022	F*	3:46:32	4:10:18	4:32:18	5:12:52	5:45:22	8:10:28	12:58:53	17:47:36	20:11:39	20:44:01	21:24:21	21:46:11	22:09:44	14:26:17	-6.009	16.814	57
08/06/2022	Sat*	3:48:23	4:11:55	4:33:46	5:14:06	5:46:29	8:09:02	12:58:46	17:48:47	20:10:18	20:42:33	21:22:40	21:44:21	22:07:40	14:23:49	-5.897	16.539	68
08/07/2022	Sun*	3:50:13	4:13:32	4:35:13	5:15:21	5:47:36	8:07:34	12:58:39	17:49:59	20:08:56	20:41:03	21:20:58	21:42:29	22:05:35	14:21:19	-5.774	16.259	79
08/08/2022	M*	3:52:02	4:15:09	4:36:41	5:16:36	5:48:44	8:06:05	12:58:31	17:51:12	20:07:32	20:39:32	21:19:14	21:40:36	22:03:30	14:18:48	-5.642	15.975	87
08/09/2022	Tu*	3:53:51	4:16:45	4:38:08	5:17:51	5:49:52	8:04:35	12:58:22	17:52:24	20:06:07	20:38:00	21:17:30	21:38:43	22:01:24	14:16:15	-5.499	15.687	94
08/10/2022	W*	3:55:40	4:18:22	4:39:35	5:19:06	5:51:00	8:03:03	12:58:13	17:53:37	20:04:40	20:36:27	21:15:44	21:36:48	21:59:18	14:13:41	-5.347	15.394	98
08/11/2022	Th*	3:57:28	4:19:58	4:41:02	5:20:20	5:52:08	8:01:30	12:58:03	17:54:50	20:03:13	20:34:52	21:13:57	21:34:53	21:57:10	14:11:05	-5.185	15.098	100
08/12/2022	F*	3:59:15	4:21:33	4:42:29	5:21:35	5:53:16	7:59:56	12:57:53	17:56:03	20:01:44	20:33:16	21:12:10	21:32:57	21:55:03	14:08:28	-5.014	14.797	98
08/13/2022	Sat*	4:01:02	4:23:09	4:43:56	5:22:50	5:54:24	7:58:21	12:57:42	17:57:16	20:00:14	20:31:39	21:10:21	21:31:00	21:52:54	14:05:50	-4.833	14.493	94
08/14/2022	Sun*	4:02:49	4:24:44	4:45:23	5:24:06	5:55:32	7:56:44	12:57:31	17:58:29	19:58:42	20:30:01	21:08:32	21:29:02	21:50:46	14:03:10	-4.644	14.184	88
08/15/2022	M*	4:04:34	4:26:19	4:46:49	5:25:21	5:56:41	7:55:07	12:57:19	17:59:42	19:57:10	20:28:23	21:06:41	21:27:04	21:48:37	14:00:29	-4.446	13.872	79
08/16/2022	Tu*	4:06:20	4:27:53	4:48:16	5:26:36	5:57:49	7:53:28	12:57:06	18:00:56	19:55:37	20:26:43	21:04:50	21:25:05	21:46:27	13:57:47	-4.239	13.556	70
08/17/2022	W*	4:08:04	4:29:27	4:49:42	5:27:51	5:58:58	7:51:48	12:56:54	18:02:09	19:54:02	20:25:02	21:02:58	21:23:05	21:44:17	13:55:04	-4.025	13.237	61

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End	End 15-	End Astro-	Length	Noon	Noon	9 PM
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight													
08/18/2022	Th*	4:09:48	4:31:01	4:51:08	5:29:05	6:00:06	7:50:07	12:56:40	18:03:23	19:52:26	20:23:20	21:01:06	21:21:05	21:42:07	13:52:20	-3.801	12.914	51
08/19/2022	F*	4:11:31	4:32:34	4:52:33	5:30:20	6:01:15	7:48:25	12:56:26	18:04:37	19:50:50	20:21:37	20:59:13	21:19:04	21:39:57	13:49:35	-3.571	12.588	41
08/20/2022	Sat*	4:13:13	4:34:06	4:53:59	5:31:35	6:02:24	7:46:42	12:56:12	18:05:51	19:49:12	20:19:54	20:57:19	21:17:03	21:37:46	13:46:48	-3.332	12.258	32
08/21/2022	Sun*	4:14:55	4:35:39	4:55:24	5:32:50	6:03:33	7:44:58	12:55:57	18:07:04	19:47:34	20:18:10	20:55:25	21:15:02	21:35:36	13:44:01	-3.086	11.925	23
08/22/2022	M*	4:16:36	4:37:10	4:56:48	5:34:04	6:04:41	7:43:13	12:55:42	18:08:18	19:45:55	20:16:25	20:53:30	21:13:00	21:33:25	13:41:13	-2.832	11.589	16
08/23/2022	Tu*	4:18:16	4:38:42	4:58:12	5:35:19	6:05:50	7:41:28	12:55:26	18:09:32	19:44:14	20:14:39	20:51:34	21:10:58	21:31:14	13:38:24	-2.571	11.250	10
08/24/2022	W*	4:19:56	4:40:12	4:59:36	5:36:33	6:06:59	7:39:41	12:55:10	18:10:46	19:42:33	20:12:52	20:49:38	21:08:55	21:29:03	13:35:34	-2.303	10.908	5
08/25/2022	Th*	4:21:35	4:41:43	5:01:00	5:37:47	6:08:08	7:37:54	12:54:54	18:12:00	19:40:52	20:11:05	20:47:42	21:06:52	21:26:51	13:32:44	-2.029	10.563	2
08/26/2022	F*	4:23:13	4:43:12	5:02:23	5:39:01	6:09:17	7:36:06	12:54:37	18:13:14	19:39:09	20:09:18	20:45:45	21:04:49	21:24:40	13:29:53	-1.748	10.215	0
08/27/2022	Sat*	4:24:50	4:44:41	5:03:46	5:40:15	6:10:25	7:34:17	12:54:20	18:14:28	19:37:26	20:07:29	20:43:48	21:02:46	21:22:29	13:27:00	-1.460	9.865	1
08/28/2022	Sun*	4:26:26	4:46:10	5:05:09	5:41:29	6:11:34	7:32:27	12:54:02	18:15:42	19:35:42	20:05:40	20:41:51	21:00:42	21:20:18	13:24:08	-1.166	9.511	3
08/29/2022	M*	4:28:02	4:47:38	5:06:31	5:42:42	6:12:43	7:30:37	12:53:44	18:16:56	19:33:57	20:03:51	20:39:53	20:58:39	21:18:07	13:21:14	-0.866	9.156	8
08/30/2022	Tu*	4:29:37	4:49:06	5:07:52	5:43:56	6:13:51	7:28:46	12:53:26	18:18:10	19:32:12	20:02:01	20:37:55	20:56:35	21:15:56	13:18:21	-0.561	8.798	14
08/31/2022	W*	4:31:11	4:50:33	5:09:14	5:45:09	6:15:00	7:26:55	12:53:07	18:19:23	19:30:26	20:00:11	20:35:56	20:54:31	21:13:45	13:15:26	-0.249	8.437	23
09/01/2022	Th*	4:32:44	4:51:59	5:10:34	5:46:22	6:16:08	7:25:03	12:52:48	18:20:37	19:28:39	19:58:20	20:33:58	20:52:27	21:11:34	13:12:31	0.067	8.075	32
09/02/2022	F*	4:34:17	4:53:25	5:11:55	5:47:35	6:17:17	7:23:10	12:52:29	18:21:51	19:26:52	19:56:29	20:31:59	20:50:23	21:09:24	13:09:35	0.389	7.710	43
09/03/2022	Sat*	4:35:49	4:54:50	5:13:15	5:48:47	6:18:25	7:21:17	12:52:09	18:23:05	19:25:05	19:54:37	20:30:00	20:48:20	21:07:13	13:06:39	0.715	7.343	54
09/04/2022	Sun*	4:37:20	4:56:14	5:14:34	5:50:00	6:19:34	7:19:23	12:51:49	18:24:19	19:23:17	19:52:45	20:28:01	20:46:16	21:05:03	13:03:43	1.046	6.974	66
09/05/2022	M*	4:38:50	4:57:38	5:15:53	5:51:12	6:20:42	7:17:29	12:51:29	18:25:33	19:21:28	19:50:53	20:26:02	20:44:12	21:02:54	13:00:46	1.382	6.604	76
09/06/2022	Tu*	4:40:19	4:59:02	5:17:12	5:52:24	6:21:51	7:15:34	12:51:09	18:26:46	19:19:39	19:49:00	20:24:03	20:42:08	21:00:44	12:57:49	1.721	6.231	85
09/07/2022	W*	4:41:48	5:00:25	5:18:31	5:53:35	6:22:59	7:13:39	12:50:48	18:28:00	19:17:50	19:47:08	20:22:04	20:40:05	20:58:35	12:54:51	2.064	5.857	93
09/08/2022	Th*	4:43:16	5:01:47	5:19:48	5:54:47	6:24:07	7:11:44	12:50:28	18:29:14	19:16:00	19:45:15	20:20:05	20:38:01	20:56:26	12:51:53	2.410	5.482	98
09/09/2022	F*	4:44:43	5:03:09	5:21:06	5:55:59	6:25:15	7:09:48	12:50:07	18:30:28	19:14:10	19:43:22	20:18:06	20:35:58	20:54:17	12:48:55	2.759	5.104	100
09/10/2022	Sat*	4:46:10	5:04:30	5:22:23	5:57:10	6:26:24	7:07:52	12:49:46	18:31:42	19:12:20	19:41:28	20:16:07	20:33:55	20:52:09	12:45:56	3.110	4.726	99
09/11/2022	Sun*	4:47:36	5:05:51	5:23:40	5:58:21	6:27:32	7:05:56	12:49:24	18:32:56	19:10:29	19:39:35	20:14:08	20:31:52	20:50:01	12:42:58	3.463	4.346	96
09/12/2022	M*	4:49:01	5:07:12	5:24:56	5:59:32	6:28:40	7:03:59	12:49:03	18:34:10	19:08:39	19:37:42	20:12:10	20:29:50	20:47:54	12:39:58	3.818	3.965	91
09/13/2022	Tu*	4:50:26	5:08:31	5:26:13	6:00:43	6:29:49	7:02:02	12:48:42	18:35:24	19:06:48	19:35:48	20:10:11	20:27:48	20:45:47	12:36:59	4.174	3.582	84
09/14/2022	W*	4:51:50	5:09:51	5:27:28	6:01:54	6:30:57	7:00:05	12:48:20	18:36:39	19:04:56	19:33:55	20:08:13	20:25:46	20:43:41	12:33:59	4.531	3.199	76
09/15/2022	Th*	4:53:14	5:11:10	5:28:44	6:03:05	6:32:06	6:58:08	12:47:59	18:37:53	19:03:05	19:32:01	20:06:15	20:23:44	20:41:35	12:31:00	4.889	2.814	67
09/16/2022	F*	4:54:37	5:12:29	5:29:59	6:04:15	6:33:14	6:56:11	12:47:37	18:39:08	19:01:14	19:30:08	20:04:17	20:21:43	20:39:30	12:28:00	5.247	2.429	58
09/17/2022	Sat*	4:55:59	5:13:47	5:31:14	6:05:26	6:34:23	6:54:14	12:47:16	18:40:22	18:59:22	19:28:15	20:02:19	20:19:43	20:37:25	12:24:59	5.605	2.043	48
09/18/2022	Sun*	4:57:21	5:15:05	5:32:29	6:06:36	6:35:32	6:52:16	12:46:54	18:41:37	18:57:31	19:26:21	20:00:22	20:17:42	20:35:21	12:21:59	5.962	1.656	39
09/19/2022	M*	4:58:42	5:16:22	5:33:43	6:07:47	6:36:41	6:50:19	12:46:33	18:42:52	18:55:39	19:24:28	19:58:25	20:15:43	20:33:18	12:18:59	6.318	1.268	30
09/20/2022	Tu*	5:00:03	5:17:39	5:34:58	6:08:58	6:37:50	6:48:21	12:46:12	18:44:07	18:53:48	19:22:35	19:56:29	20:13:43	20:31:15	12:15:58	6.674	0.880	21
09/21/2022	W*	5:01:23	5:18:56	5:36:12	6:10:08	6:38:59	6:46:24	12:45:50	18:45:23	18:51:56	19:20:43	19:54:33	20:11:45	20:29:13	12:12:57	7.027	0.491	14
09/22/2022	Th*	5:02:43	5:20:12	5:37:25	6:11:19	6:40:08	6:44:27	12:45:29	18:46:38	18:50:05	19:18:50	19:52:37	20:09:47	20:27:11	12:09:56	7.379	0.102	8
09/23/2022	F*	5:04:02	5:21:28	5:38:39	6:12:29	6:41:18		12:45:08		18:48:13	19:16:58	19:50:42	20:07:49	20:25:11	12:06:56	7.729	-0.287	4
09/24/2022	Sat*	5:05:21	5:22:44	5:39:52	6:13:40	6:42:27		12:44:47		18:46:22	19:15:06	19:48:47	20:05:52	20:23:11	12:03:55	8.077	-0.676	1
09/25/2022	Sun*	5:06:39	5:23:59	5:41:06	6:14:50	6:43:37		12:44:27		18:44:31	19:13:14	19:46:53	20:03:56	20:21:12	12:00:54	8.422	-1.066	0
09/26/2022	M*	5:07:57	5:25:15	5:42:19	6:16:01	6:44:47		12:44:06		18:42:40	19:11:23	19:44:59	20:02:00	20:19:13	11:57:53	8.764	-1.455	2

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	sun decli-	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight			Noon			End Civil Twilight	Nautical Twilight	deg. Twilight		Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)	
09/27/2022	Tu*	5:09:15	5:26:29	5:43:31	6:17:11	6:45:57		12:43:46		18:40:49	19:09:32	19:43:06	20:00:05	20:17:16	11:54:52	9.103	-1.845	6
09/28/2022	W*	5:10:32	5:27:44	5:44:44	6:18:22	6:47:08		12:43:26		18:38:59	19:07:42	19:41:14	19:58:11	20:15:19	11:51:51	9.439	-2.234	12
09/29/2022	Th*	5:11:49	5:28:58	5:45:57	6:19:32	6:48:18		12:43:06		18:37:09	19:05:51	19:39:22	19:56:17	20:13:23	11:48:50	9.770	-2.622	20
09/30/2022	F*	5:13:05	5:30:12	5:47:09	6:20:43	6:49:29		12:42:46		18:35:19	19:04:02	19:37:31	19:54:24	20:11:28	11:45:50	10.098	-3.011	29
10/01/2022	Sat*	5:14:21	5:31:26	5:48:21	6:21:54	6:50:40		12:42:27		18:33:30	19:02:13	19:35:40	19:52:32	20:09:34	11:42:49	10.421	-3.398	40
10/02/2022	Sun*	5:15:37	5:32:40	5:49:33	6:23:04	6:51:51		12:42:08		18:31:40	19:00:24	19:33:50	19:50:41	20:07:40	11:39:49	10.739	-3.785	51
10/03/2022	M*	5:16:52	5:33:53	5:50:45	6:24:15	6:53:03		12:41:49		18:29:52	18:58:36	19:32:01	19:48:50	20:05:48	11:36:49	11.053	-4.172	63
10/04/2022	Tu*	5:18:07	5:35:06	5:51:57	6:25:26	6:54:14		12:41:30		18:28:03	18:56:48	19:30:13	19:47:01	20:03:57	11:33:49	11.361	-4.557	74
10/05/2022	W*	5:19:22	5:36:19	5:53:09	6:26:37	6:55:26		12:41:12		18:26:15	18:55:01	19:28:25	19:45:12	20:02:06	11:30:49	11.663	-4.942	83
10/06/2022	Th*	5:20:36	5:37:32	5:54:20	6:27:48	6:56:38		12:40:55		18:24:28	18:53:15	19:26:39	19:43:25	20:00:17	11:27:50	11.960	-5.325	91
10/07/2022	F*	5:21:50	5:38:44	5:55:32	6:28:59	6:57:51		12:40:37		18:22:41	18:51:29	19:24:53	19:41:38	19:58:29	11:24:50	12.250	-5.707	96
10/08/2022	Sat*	5:23:04	5:39:56	5:56:43	6:30:11	6:59:03		12:40:20		18:20:55	18:49:44	19:23:08	19:39:52	19:56:42	11:21:51	12.533	-6.088	99
10/09/2022	Sun*	5:24:17	5:41:09	5:57:55	6:31:22	7:00:16		12:40:04		18:19:09	18:48:00	19:21:24	19:38:07	19:54:56	11:18:53	12.809	-6.468	100
10/10/2022	M*	5:25:31	5:42:21	5:59:06	6:32:34	7:01:29		12:39:48		18:17:24	18:46:17	19:19:40	19:36:23	19:53:11	11:15:55	13.077	-6.846	98
10/11/2022	Tu*	5:26:44	5:43:33	6:00:18	6:33:45	7:02:43		12:39:32		18:15:39	18:44:34	19:17:58	19:34:41	19:51:27	11:12:57	13.337	-7.223	94
10/12/2022	W*	5:27:56	5:44:45	6:01:29	6:34:57	7:03:57		12:39:17		18:13:56	18:42:52	19:16:17	19:32:59	19:49:45	11:09:59	13.589	-7.598	89
10/13/2022	Th*	5:29:09	5:45:56	6:02:40	6:36:09	7:05:11		12:39:02		18:12:13	18:41:12	19:14:37	19:31:19	19:48:03	11:07:02	13.833	-7.971	82
10/14/2022	F*	5:30:22	5:47:08	6:03:52	6:37:22	7:06:25		12:38:48		18:10:30	18:39:32	19:12:58	19:29:39	19:46:23	11:04:05	14.067	-8.343	74
10/15/2022	Sat*	5:31:34	5:48:20	6:05:03	6:38:34	7:07:40		12:38:35		18:08:49	18:37:52	19:11:20	19:28:01	19:44:45	11:01:09	14.292	-8.713	65
10/16/2022	Sun*	5:32:46	5:49:32	6:06:15	6:39:47	7:08:55		12:38:22		18:07:08	18:36:14	19:09:43	19:26:24	19:43:07	10:58:13	14.507	-9.080	56
10/17/2022	M*	5:33:58	5:50:43	6:07:26	6:41:00	7:10:10		12:38:09		18:05:29	18:34:37	19:08:07	19:24:49	19:41:31	10:55:18	14.712	-9.446	46
10/18/2022	Tu*	5:35:10	5:51:55	6:08:38	6:42:13	7:11:26		12:37:58		18:03:50	18:33:01	19:06:33	19:23:14	19:39:56	10:52:24	14.906	-9.809	37
10/19/2022	W*	5:36:22	5:53:06	6:09:50	6:43:26	7:12:42		12:37:47		18:02:12	18:31:26	19:04:59	19:21:41	19:38:23	10:49:30	15.091	-10.170	28
10/20/2022	Th*	5:37:34	5:54:18	6:11:01	6:44:39	7:13:59		12:37:36		18:00:35	18:29:52	19:03:27	19:20:09	19:36:51	10:46:36	15.264	-10.529	20
10/21/2022	F*	5:38:46	5:55:29	6:12:13	6:45:53	7:15:16		12:37:27		17:58:59	18:28:20	19:01:57	19:18:39	19:35:20	10:43:44	15.426	-10.885	12
10/22/2022	Sat*	5:39:57	5:56:41	6:13:25	6:47:07	7:16:33		12:37:17		17:57:24	18:26:48	19:00:27	19:17:10	19:33:51	10:40:52	15.577	-11.238	6
10/23/2022	Sun*	5:41:09	5:57:52	6:14:37	6:48:21	7:17:50		12:37:09		17:55:50	18:25:18	18:58:59	19:15:42	19:32:24	10:38:00	15.717	-11.588	2
10/24/2022	M*	5:42:20	5:59:04	6:15:49	6:49:35	7:19:08		12:37:01		17:54:18	18:23:49	18:57:32	19:14:16	19:30:58	10:35:10	15.845	-11.936	0
10/25/2022	Tu*	5:43:31	6:00:15	6:17:01	6:50:49	7:20:26		12:36:55		17:52:46	18:22:21	18:56:07	19:12:51	19:29:33	10:32:21	15.960	-12.280	1
10/26/2022	W*	5:44:43	6:01:26	6:18:13	6:52:04	7:21:44		12:36:48		17:51:16	18:20:54	18:54:43	19:11:28	19:28:10	10:29:32	16.064	-12.622	4
10/27/2022	Th*	5:45:54	6:02:38	6:19:25	6:53:19	7:23:02		12:36:43		17:49:47	18:19:29	18:53:21	19:10:06	19:26:49	10:26:45	16.156	-12.960	9
10/28/2022	F*	5:47:05	6:03:49	6:20:37	6:54:33	7:24:21		12:36:38		17:48:19	18:18:05	18:52:00	19:08:46	19:25:29	10:23:58	16.235	-13.295	17
10/29/2022	Sat*	5:48:15	6:05:00	6:21:49	6:55:48	7:25:40		12:36:34		17:46:53	18:16:43	18:50:40	19:07:28	19:24:11	10:21:13	16.302	-13.626	26
10/30/2022	Sun*	5:49:26	6:06:11	6:23:01	6:57:03	7:26:59		12:36:31		17:45:27	18:15:22	18:49:22	19:06:10	19:22:54	10:18:29	16.356	-13.954	37
10/31/2022	M*	5:50:36	6:07:22	6:24:13	6:58:18	7:28:18		12:36:28		17:44:04	18:14:02	18:48:06	19:04:55	19:21:39	10:15:46	16.397	-14.278	48
11/01/2022	Tu*	5:51:47	6:08:33	6:25:24	6:59:33	7:29:38		12:36:27		17:42:41	18:12:44	18:46:51	19:03:41	19:20:26	10:13:04	16.426	-14.598	60
11/02/2022	W*	5:52:57	6:09:44	6:26:36	7:00:48	7:30:57		12:36:26		17:41:20	18:11:28	18:45:38	19:02:29	19:19:15	10:10:23	16.441	-14.914	70
11/03/2022	Th*	5:54:07	6:10:55	6:27:48	7:02:04	7:32:17		12:36:26		17:40:01	18:10:13	18:44:27	19:01:19	19:18:05	10:07:44	16.444	-15.226	80
11/04/2022	F*	5:55:17	6:12:05	6:29:00	7:03:19	7:33:36		12:36:26		17:38:43	18:08:59	18:43:17	19:00:10	19:16:58	10:05:07	16.432	-15.534	88
11/05/2022	Sat*	5:56:26	6:13:16	6:30:11	7:04:34	7:34:56		12:36:28		17:37:27	18:07:48	18:42:09	18:59:04	19:15:52	10:02:31	16.408	-15.837	94

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight			Noon										
11/06/2022	Sun	4:57:36	5:14:26	5:31:23	6:05:49	6:36:16		11:36:30		16:36:12	17:06:38	17:41:02	17:57:58	18:14:47	9:59:56	16.370	-16.137	98
11/07/2022	M	4:58:45	5:15:36	5:32:34	6:07:04	6:37:36		11:36:33		16:34:59	17:05:30	17:39:58	17:56:55	18:13:45	9:57:24	16.317	-16.431	100
11/08/2022	Tu	4:59:54	5:16:46	5:33:45	6:08:19	6:38:55		11:36:37		16:33:48	17:04:23	17:38:55	17:55:54	18:12:45	9:54:53	16.251	-16.721	99
11/09/2022	W	5:01:03	5:17:56	5:34:56	6:09:34	6:40:15		11:36:42		16:32:38	17:03:18	17:37:54	17:54:54	18:11:46	9:52:23	16.171	-17.007	97
11/10/2022	Th	5:02:11	5:19:05	5:36:07	6:10:49	6:41:35		11:36:48		16:31:30	17:02:15	17:36:55	17:53:57	18:10:50	9:49:56	16.077	-17.287	93
11/11/2022	F	5:03:20	5:20:15	5:37:18	6:12:03	6:42:54		11:36:54		16:30:24	17:01:14	17:35:58	17:53:01	18:09:55	9:47:30	15.968	-17.563	87
11/12/2022	Sat	5:04:28	5:21:24	5:38:29	6:13:18	6:44:14		11:37:01		16:29:20	17:00:15	17:35:03	17:52:07	18:09:02	9:45:07	15.845	-17.834	80
11/13/2022	Sun	5:05:36	5:22:33	5:39:39	6:14:32	6:45:33		11:37:10		16:28:18	16:59:18	17:34:10	17:51:16	18:08:12	9:42:46	15.708	-18.099	72
11/14/2022	M	5:06:43	5:23:41	5:40:49	6:15:46	6:46:52		11:37:19		16:27:18	16:58:23	17:33:19	17:50:26	18:07:23	9:40:26	15.556	-18.360	63
11/15/2022	Tu	5:07:50	5:24:49	5:41:59	6:17:00	6:48:10		11:37:29		16:26:20	16:57:30	17:32:30	17:49:38	18:06:37	9:38:09	15.390	-18.615	54
11/16/2022	W	5:08:57	5:25:57	5:43:08	6:18:13	6:49:29		11:37:40		16:25:24	16:56:38	17:31:43	17:48:53	18:05:52	9:35:55	15.209	-18.864	44
11/17/2022	Th	5:10:04	5:27:05	5:44:17	6:19:27	6:50:47		11:37:51		16:24:29	16:55:49	17:30:58	17:48:09	18:05:10	9:33:42	15.015	-19.108	35
11/18/2022	F	5:11:10	5:28:12	5:45:26	6:20:39	6:52:05		11:38:04		16:23:37	16:55:02	17:30:15	17:47:28	18:04:29	9:31:33	14.806	-19.346	26
11/19/2022	Sat	5:12:16	5:29:19	5:46:34	6:21:52	6:53:22		11:38:17		16:22:48	16:54:17	17:29:34	17:46:48	18:03:51	9:29:26	14.583	-19.579	17
11/20/2022	Sun	5:13:21	5:30:26	5:47:42	6:23:03	6:54:39		11:38:31		16:22:00	16:53:34	17:28:55	17:46:11	18:03:15	9:27:21	14.346	-19.806	10
11/21/2022	M	5:14:26	5:31:32	5:48:50	6:24:15	6:55:55		11:38:46		16:21:14	16:52:54	17:28:18	17:45:36	18:02:41	9:25:19	14.095	-20.026	4
11/22/2022	Tu	5:15:30	5:32:37	5:49:56	6:25:26	6:57:10		11:39:02		16:20:31	16:52:15	17:27:44	17:45:03	18:02:09	9:23:21	13.831	-20.241	1
11/23/2022	W	5:16:33	5:33:42	5:51:03	6:26:36	6:58:25		11:39:19		16:19:50	16:51:39	17:27:12	17:44:32	18:01:40	9:21:25	13.554	-20.449	0
11/24/2022	Th	5:17:37	5:34:46	5:52:08	6:27:45	6:59:40		11:39:36		16:19:11	16:51:05	17:26:42	17:44:04	18:01:12	9:19:32	13.264	-20.651	2
11/25/2022	F	5:18:39	5:35:49	5:53:13	6:28:54	7:00:53		11:39:54		16:18:35	16:50:34	17:26:14	17:43:37	18:00:47	9:17:42	12.961	-20.847	7
11/26/2022	Sat	5:19:41	5:36:52	5:54:17	6:30:02	7:02:05		11:40:13		16:18:01	16:50:04	17:25:48	17:43:13	18:00:24	9:15:56	12.646	-21.036	14
11/27/2022	Sun	5:20:42	5:37:54	5:55:21	6:31:09	7:03:17		11:40:33		16:17:30	16:49:37	17:25:25	17:42:51	18:00:03	9:14:13	12.318	-21.219	23
11/28/2022	M	5:21:42	5:38:56	5:56:24	6:32:15	7:04:28		11:40:53		16:17:00	16:49:12	17:25:03	17:42:31	17:59:44	9:12:33	11.980	-21.394	34
11/29/2022	Tu	5:22:41	5:39:56	5:57:25	6:33:21	7:05:37		11:41:14		16:16:34	16:48:50	17:24:44	17:42:13	17:59:28	9:10:57	11.629	-21.564	45
11/30/2022	W	5:23:40	5:40:56	5:58:26	6:34:25	7:06:45		11:41:36		16:16:09	16:48:29	17:24:28	17:41:58	17:59:14	9:09:24	11.269	-21.726	56
12/01/2022	Th	5:24:37	5:41:54	5:59:26	6:35:28	7:07:53		11:41:58		16:15:47	16:48:12	17:24:13	17:41:45	17:59:01	9:07:55	10.897	-21.881	67
12/02/2022	F	5:25:34	5:42:52	6:00:25	6:36:30	7:08:59		11:42:21		16:15:28	16:47:56	17:24:01	17:41:34	17:58:51	9:06:30	10.515	-22.029	77
12/03/2022	Sat	5:26:30	5:43:49	6:01:23	6:37:31	7:10:03		11:42:45		16:15:11	16:47:43	17:23:51	17:41:25	17:58:43	9:05:08	10.123	-22.171	85
12/04/2022	Sun	5:27:25	5:44:44	6:02:20	6:38:31	7:11:06		11:43:09		16:14:57	16:47:32	17:23:43	17:41:18	17:58:38	9:03:50	9.722	-22.305	91
12/05/2022	M	5:28:18	5:45:39	6:03:15	6:39:29	7:12:08		11:43:33		16:14:45	16:47:24	17:23:38	17:41:14	17:58:34	9:02:37	9.312	-22.432	96
12/06/2022	Tu	5:29:11	5:46:32	6:04:10	6:40:26	7:13:09		11:43:59		16:14:36	16:47:18	17:23:34	17:41:12	17:58:33	9:01:27	8.892	-22.551	99
12/07/2022	W	5:30:02	5:47:25	6:05:03	6:41:22	7:14:07		11:44:24		16:14:29	16:47:14	17:23:33	17:41:11	17:58:34	9:00:22	8.464	-22.663	100
12/08/2022	Th	5:30:52	5:48:16	6:05:55	6:42:16	7:15:05		11:44:50		16:14:25	16:47:13	17:23:35	17:41:14	17:58:37	8:59:20	8.028	-22.768	99
12/09/2022	F	5:31:41	5:49:05	6:06:45	6:43:09	7:16:00		11:45:17		16:14:24	16:47:14	17:23:38	17:41:18	17:58:42	8:58:23	7.585	-22.866	96
12/10/2022	Sat	5:32:29	5:49:54	6:07:35	6:44:01	7:16:54		11:45:44		16:14:25	16:47:18	17:23:44	17:41:25	17:58:49	8:57:30	7.134	-22.956	92
12/11/2022	Sun	5:33:16	5:50:41	6:08:22	6:44:51	7:17:46		11:46:12		16:14:28	16:47:24	17:23:52	17:41:33	17:58:58	8:56:42	6.676	-23.038	86
12/12/2022	M	5:34:01	5:51:27	6:09:09	6:45:39	7:18:37		11:46:39		16:14:34	16:47:32	17:24:02	17:41:44	17:59:10	8:55:58	6.212	-23.113	79
12/13/2022	Tu	5:34:45	5:52:11	6:09:54	6:46:25	7:19:25		11:47:08		16:14:43	16:47:43	17:24:14	17:41:57	17:59:23	8:55:18	5.742	-23.180	71
12/14/2022	W	5:35:27	5:52:54	6:10:37	6:47:10	7:20:12		11:47:36		16:14:55	16:47:56	17:24:29	17:42:12	17:59:39	8:54:43	5.266	-23.239	62
12/15/2022	Th	5:36:08	5:53:35	6:11:19	6:47:53	7:20:56		11:48:05		16:15:09	16:48:11	17:24:45	17:42:29	17:59:56	8:54:12	4.786	-23.291	52

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin Astro- nomical Twilight	Begin 15- deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15- deg. Twilight	End Astro- nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun decli- nation (deg.)	9 PM Lunar Illum. (pct.)
12/16/2022	F	5:36:48	5:54:15	6:11:59	6:48:34	7:21:39		11:48:34		16:15:25	16:48:29	17:25:04	17:42:48	18:00:16	8:53:46	4.301	-23.335	42
12/17/2022	Sat	5:37:26	5:54:53	6:12:38	6:49:14	7:22:19		11:49:03		16:15:44	16:48:49	17:25:25	17:43:10	18:00:37	8:53:25	3.813	-23.371	32
12/18/2022	Sun	5:38:02	5:55:30	6:13:15	6:49:51	7:22:58		11:49:33		16:16:05	16:49:12	17:25:48	17:43:33	18:01:01	8:53:08	3.321	-23.400	23
12/19/2022	M	5:38:37	5:56:05	6:13:50	6:50:27	7:23:34		11:50:03		16:16:29	16:49:36	17:26:13	17:43:58	18:01:26	8:52:56	2.827	-23.420	14
12/20/2022	Tu	5:39:10	5:56:38	6:14:23	6:51:01	7:24:08		11:50:32		16:16:56	16:50:03	17:26:40	17:44:26	18:01:54	8:52:48	2.330	-23.433	7
12/21/2022	W	5:39:41	5:57:10	6:14:55	6:51:32	7:24:40		11:51:02		16:17:25	16:50:32	17:27:10	17:44:55	18:02:23	8:52:45	1.832	-23.438	2
12/22/2022	Th	5:40:11	5:57:39	6:15:24	6:52:02	7:25:09		11:51:32		16:17:56	16:51:03	17:27:41	17:45:26	18:02:54	8:52:47	1.333	-23.435	0
12/23/2022	F	5:40:39	5:58:07	6:15:52	6:52:29	7:25:36		11:52:02		16:18:30	16:51:37	17:28:14	17:45:59	18:03:27	8:52:53	0.834	-23.424	1
12/24/2022	Sat	5:41:05	5:58:33	6:16:18	6:52:55	7:26:01		11:52:32		16:19:06	16:52:12	17:28:49	17:46:34	18:04:01	8:53:05	0.335	-23.406	5
12/25/2022	Sun	5:41:30	5:58:57	6:16:42	6:53:18	7:26:23		11:53:02		16:19:44	16:52:49	17:29:25	17:47:10	18:04:38	8:53:20	-0.162	-23.379	11
12/26/2022	M	5:41:52	5:59:19	6:17:04	6:53:39	7:26:43		11:53:32		16:20:24	16:53:29	17:30:04	17:47:48	18:05:16	8:53:41	-0.658	-23.345	20
12/27/2022	Tu	5:42:12	5:59:39	6:17:23	6:53:58	7:27:01		11:54:01		16:21:07	16:54:10	17:30:44	17:48:28	18:05:55	8:54:06	-1.151	-23.303	30
12/28/2022	W	5:42:31	5:59:58	6:17:41	6:54:14	7:27:16		11:54:31		16:21:51	16:54:53	17:31:26	17:49:10	18:06:37	8:54:36	-1.641	-23.253	40
12/29/2022	Th	5:42:48	6:00:14	6:17:57	6:54:28	7:27:28		11:55:00		16:22:38	16:55:38	17:32:10	17:49:53	18:07:19	8:55:10	-2.128	-23.195	51
12/30/2022	F	5:43:02	6:00:28	6:18:10	6:54:40	7:27:38		11:55:29		16:23:27	16:56:25	17:32:55	17:50:38	18:08:04	8:55:49	-2.610	-23.129	62
12/31/2022	Sat	5:43:15	6:00:40	6:18:21	6:54:50	7:27:46		11:55:57		16:24:18	16:57:14	17:33:42	17:51:24	18:08:49	8:56:32	-3.087	-23.056	71
01/01/2023	Sun	5:43:25	6:00:50	6:18:31	6:54:57	7:27:51		11:56:26		16:25:10	16:58:04	17:34:31	17:52:12	18:09:36	8:57:20	-3.559	-22.975	80
01/02/2023	M	5:43:34	6:00:57	6:18:37	6:55:02	7:27:53		11:56:54		16:26:05	16:58:56	17:35:20	17:53:01	18:10:25	8:58:12	-4.026	-22.887	87
01/03/2023	Tu	5:43:40	6:01:03	6:18:42	6:55:04	7:27:53		11:57:21		16:27:01	16:59:50	17:36:12	17:53:51	18:11:15	8:59:08	-4.486	-22.791	93
01/04/2023	W	5:43:44	6:01:07	6:18:45	6:55:04	7:27:50		11:57:49		16:27:59	17:00:45	17:37:05	17:54:43	18:12:06	9:00:09	-4.940	-22.687	97
01/05/2023	Th	5:43:46	6:01:08	6:18:45	6:55:02	7:27:45		11:58:15		16:28:59	17:01:41	17:37:59	17:55:36	18:12:58	9:01:14	-5.387	-22.576	99
01/06/2023	F	5:43:46	6:01:07	6:18:43	6:54:58	7:27:37		11:58:42		16:30:00	17:02:39	17:38:54	17:56:31	18:13:51	9:02:23	-5.826	-22.457	100
01/07/2023	Sat	5:43:44	6:01:04	6:18:39	6:54:51	7:27:27		11:59:08		16:31:03	17:03:39	17:39:51	17:57:26	18:14:46	9:03:36	-6.257	-22.331	99
01/08/2023	Sun	5:43:40	6:00:59	6:18:33	6:54:42	7:27:14		11:59:33		16:32:07	17:04:40	17:40:49	17:58:23	18:15:42	9:04:53	-6.680	-22.198	96
01/09/2023	M	5:43:34	6:00:52	6:18:25	6:54:30	7:26:59		11:59:58		16:33:13	17:05:42	17:41:48	17:59:21	18:16:39	9:06:14	-7.095	-22.057	91
01/10/2023	Tu	5:43:25	6:00:42	6:18:14	6:54:16	7:26:41		12:00:22		16:34:20	17:06:45	17:42:48	18:00:20	18:17:37	9:07:39	-7.500	-21.910	85
01/11/2023	W	5:43:15	6:00:30	6:18:01	6:54:00	7:26:20		12:00:46		16:35:29	17:07:50	17:43:49	18:01:20	18:18:36	9:09:08	-7.897	-21.755	77
01/12/2023	Th	5:43:02	6:00:17	6:17:46	6:53:41	7:25:58		12:01:09		16:36:39	17:08:55	17:44:51	18:02:21	18:19:36	9:10:41	-8.283	-21.593	69
01/13/2023	F	5:42:47	6:00:01	6:17:28	6:53:20	7:25:33		12:01:32		16:37:50	17:10:02	17:45:55	18:03:23	18:20:37	9:12:17	-8.660	-21.424	59
01/14/2023	Sat	5:42:30	5:59:42	6:17:09	6:52:57	7:25:05		12:01:54		16:39:02	17:11:10	17:46:59	18:04:26	18:21:39	9:13:57	-9.026	-21.249	49
01/15/2023	Sun	5:42:11	5:59:22	6:16:47	6:52:32	7:24:35		12:02:15		16:40:15	17:12:19	17:48:04	18:05:30	18:22:42	9:15:40	-9.382	-21.066	39
01/16/2023	M	5:41:49	5:59:00	6:16:23	6:52:04	7:24:03		12:02:36		16:41:30	17:13:29	17:49:10	18:06:34	18:23:45	9:17:27	-9.726	-20.877	29
01/17/2023	Tu	5:41:26	5:58:35	6:15:57	6:51:34	7:23:28		12:02:56		16:42:45	17:14:40	17:50:17	18:07:40	18:24:49	9:19:17	-10.060	-20.681	19
01/18/2023	W	5:41:00	5:58:08	6:15:29	6:51:02	7:22:51		12:03:15		16:44:01	17:15:51	17:51:25	18:08:46	18:25:55	9:21:10	-10.382	-20.478	11
01/19/2023	Th	5:40:32	5:57:39	6:14:58	6:50:27	7:22:12		12:03:34		16:45:18	17:17:04	17:52:33	18:09:53	18:27:00	9:23:06	-10.692	-20.269	5
01/20/2023	F	5:40:03	5:57:08	6:14:26	6:49:51	7:21:31		12:03:52		16:46:36	17:18:17	17:53:42	18:11:01	18:28:07	9:25:06	-10.991	-20.054	1
01/21/2023	Sat	5:39:30	5:56:35	6:13:51	6:49:12	7:20:47		12:04:09		16:47:55	17:19:30	17:54:52	18:12:09	18:29:14	9:27:08	-11.276	-19.832	0
01/22/2023	Sun	5:38:56	5:55:59	6:13:14	6:48:31	7:20:01		12:04:25		16:49:14	17:20:45	17:56:03	18:13:18	18:30:22	9:29:13	-11.550	-19.605	3
01/23/2023	M	5:38:20	5:55:22	6:12:35	6:47:48	7:19:13		12:04:41		16:50:34	17:22:00	17:57:13	18:14:27	18:31:30	9:31:21	-11.810	-19.371	8
01/24/2023	Tu	5:37:42	5:54:42	6:11:54	6:47:03	7:18:23		12:04:56		16:51:55	17:23:15	17:58:25	18:15:37	18:32:39	9:33:32	-12.056	-19.131	16

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End	End 15-	End Astro-	Length	Noon	Noon	9 PM
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight													
01/25/2023	W	5:37:01	5:54:01	6:11:11	6:46:16	7:17:30		12:05:10		16:53:16	17:24:31	17:59:37	18:16:48	18:33:48	9:35:45	-12.290	-18.885	25
01/26/2023	Th	5:36:19	5:53:17	6:10:26	6:45:26	7:16:36		12:05:23		16:54:37	17:25:47	18:00:49	18:17:58	18:34:57	9:38:01	-12.510	-18.634	35
01/27/2023	F	5:35:34	5:52:31	6:09:39	6:44:35	7:15:40		12:05:35		16:55:59	17:27:04	18:02:02	18:19:10	18:36:08	9:40:19	-12.716	-18.377	45
01/28/2023	Sat	5:34:47	5:51:44	6:08:49	6:43:42	7:14:41		12:05:47		16:57:21	17:28:21	18:03:15	18:20:21	18:37:18	9:42:40	-12.908	-18.114	56
01/29/2023	Sun	5:33:59	5:50:54	6:07:58	6:42:46	7:13:41		12:05:57		16:58:43	17:29:39	18:04:28	18:21:33	18:38:29	9:45:02	-13.087	-17.846	65
01/30/2023	M	5:33:08	5:50:02	6:07:05	6:41:49	7:12:39		12:06:07		17:00:06	17:30:56	18:05:42	18:22:45	18:39:40	9:47:27	-13.251	-17.573	74
01/31/2023	Tu	5:32:15	5:49:08	6:06:10	6:40:50	7:11:34		12:06:16		17:01:29	17:32:14	18:06:56	18:23:58	18:40:52	9:49:54	-13.402	-17.294	82
02/01/2023	W	5:31:21	5:48:12	6:05:12	6:39:49	7:10:28		12:06:24		17:02:52	17:33:32	18:08:10	18:25:11	18:42:03	9:52:23	-13.539	-17.011	89
02/02/2023	Th	5:30:24	5:47:15	6:04:13	6:38:46	7:09:21		12:06:32		17:04:15	17:34:50	18:09:24	18:26:24	18:43:16	9:54:54	-13.662	-16.722	94
02/03/2023	F	5:29:25	5:46:15	6:03:13	6:37:41	7:08:11		12:06:38		17:05:38	17:36:09	18:10:39	18:27:37	18:44:28	9:57:27	-13.771	-16.429	98
02/04/2023	Sat	5:28:25	5:45:14	6:02:10	6:36:35	7:07:00		12:06:44		17:07:01	17:37:27	18:11:53	18:28:51	18:45:41	10:00:01	-13.867	-16.131	99
02/05/2023	Sun	5:27:23	5:44:11	6:01:06	6:35:26	7:05:47		12:06:49		17:08:24	17:38:46	18:13:08	18:30:04	18:46:53	10:02:38	-13.949	-15.828	100
02/06/2023	M	5:26:19	5:43:06	5:59:59	6:34:17	7:04:32		12:06:53		17:09:48	17:40:05	18:14:23	18:31:18	18:48:06	10:05:15	-14.018	-15.521	98
02/07/2023	Tu	5:25:13	5:41:59	5:58:51	6:33:05	7:03:16		12:06:57		17:11:11	17:41:23	18:15:39	18:32:32	18:49:20	10:07:55	-14.073	-15.210	95
02/08/2023	W	5:24:05	5:40:50	5:57:42	6:31:52	7:01:58		12:06:59		17:12:34	17:42:42	18:16:54	18:33:46	18:50:33	10:10:36	-14.116	-14.894	90
02/09/2023	Th	5:22:55	5:39:40	5:56:30	6:30:37	7:00:39		12:07:01		17:13:57	17:44:01	18:18:09	18:35:01	18:51:47	10:13:18	-14.145	-14.574	83
02/10/2023	F	5:21:44	5:38:28	5:55:17	6:29:21	6:59:18		12:07:02		17:15:21	17:45:20	18:19:25	18:36:15	18:53:01	10:16:02	-14.162	-14.249	75
02/11/2023	Sat	5:20:31	5:37:15	5:54:03	6:28:03	6:57:56		12:07:02		17:16:44	17:46:38	18:20:41	18:37:30	18:54:15	10:18:47	-14.166	-13.921	66
02/12/2023	Sun	5:19:16	5:35:59	5:52:47	6:26:44	6:56:33		12:07:02		17:18:06	17:47:57	18:21:56	18:38:45	18:55:30	10:21:34	-14.158	-13.589	55
02/13/2023	M	5:18:00	5:34:43	5:51:29	6:25:23	6:55:08		12:07:00		17:19:29	17:49:16	18:23:12	18:40:00	18:56:44	10:24:21	-14.137	-13.254	45
02/14/2023	Tu	5:16:42	5:33:24	5:50:10	6:24:01	6:53:42		12:06:58		17:20:52	17:50:34	18:24:28	18:41:15	18:57:59	10:27:10	-14.105	-12.914	34
02/15/2023	W	5:15:22	5:32:04	5:48:49	6:22:37	6:52:15		12:06:56		17:22:14	17:51:53	18:25:44	18:42:30	18:59:14	10:30:00	-14.060	-12.571	24
02/16/2023	Th	5:14:01	5:30:43	5:47:27	6:21:13	6:50:46		12:06:52		17:23:37	17:53:12	18:27:00	18:43:46	19:00:29	10:32:50	-14.004	-12.225	14
02/17/2023	F	5:12:38	5:29:20	5:46:03	6:19:47	6:49:16		12:06:48		17:24:59	17:54:30	18:28:16	18:45:01	19:01:45	10:35:42	-13.937	-11.876	7
02/18/2023	Sat	5:11:14	5:27:55	5:44:38	6:18:19	6:47:45		12:06:44		17:26:20	17:55:48	18:29:32	18:46:17	19:03:00	10:38:35	-13.858	-11.523	2
02/19/2023	Sun	5:09:48	5:26:29	5:43:12	6:16:51	6:46:13		12:06:38		17:27:42	17:57:07	18:30:48	18:47:32	19:04:16	10:41:29	-13.767	-11.167	0
02/20/2023	M	5:08:20	5:25:02	5:41:44	6:15:21	6:44:40		12:06:32		17:29:03	17:58:25	18:32:04	18:48:48	19:05:32	10:44:23	-13.666	-10.808	1
02/21/2023	Tu	5:06:52	5:23:33	5:40:15	6:13:50	6:43:06		12:06:25		17:30:24	17:59:43	18:33:20	18:50:04	19:06:48	10:47:18	-13.554	-10.447	5
02/22/2023	W	5:05:21	5:22:03	5:38:45	6:12:18	6:41:31		12:06:18		17:31:45	18:01:00	18:34:36	18:51:20	19:08:04	10:50:14	-13.431	-10.083	11
02/23/2023	Th	5:03:50	5:20:32	5:37:13	6:10:44	6:39:55		12:06:10		17:33:06	18:02:18	18:35:52	18:52:36	19:09:20	10:53:11	-13.297	-9.716	19
02/24/2023	F	5:02:16	5:18:59	5:35:41	6:09:10	6:38:17		12:06:01		17:34:26	18:03:35	18:37:08	18:53:52	19:10:37	10:56:08	-13.153	-9.347	29
02/25/2023	Sat	5:00:42	5:17:25	5:34:06	6:07:35	6:36:39		12:05:52		17:35:46	18:04:53	18:38:24	18:55:08	19:11:53	10:59:06	-12.999	-8.975	38
02/26/2023	Sun	4:59:06	5:15:50	5:32:31	6:05:58	6:35:00		12:05:42		17:37:05	18:06:10	18:39:40	18:56:24	19:13:10	11:02:05	-12.836	-8.602	48
02/27/2023	M	4:57:29	5:14:13	5:30:55	6:04:21	6:33:21		12:05:32		17:38:25	18:07:27	18:40:56	18:57:40	19:14:27	11:05:04	-12.662	-8.226	58
02/28/2023	Tu	4:55:51	5:12:36	5:29:18	6:02:43	6:31:40		12:05:21		17:39:44	18:08:44	18:42:12	18:58:57	19:15:44	11:08:03	-12.480	-7.848	67
03/01/2023	W	4:54:11	5:10:57	5:27:39	6:01:03	6:29:59		12:05:09		17:41:02	18:10:00	18:43:28	19:00:13	19:17:02	11:11:03	-12.288	-7.468	76
03/02/2023	Th	4:52:30	5:09:17	5:25:59	5:59:23	6:28:17		12:04:57		17:42:20	18:11:17	18:44:44	19:01:29	19:18:19	11:14:04	-12.088	-7.087	83
03/03/2023	F	4:50:48	5:07:36	5:24:19	5:57:42	6:26:34		12:04:45		17:43:39	18:12:33	18:46:00	19:02:46	19:19:37	11:17:04	-11.880	-6.704	90
03/04/2023	Sat	4:49:04	5:05:53	5:22:37	5:56:01	6:24:51		12:04:32		17:44:56	18:13:49	18:47:16	19:04:03	19:20:55	11:20:06	-11.664	-6.320	95
03/05/2023	Sun	4:47:20	5:04:10	5:20:55	5:54:18	6:23:07		12:04:19		17:46:14	18:15:05	18:48:33	19:05:20	19:22:13	11:23:07	-11.440	-5.934	98

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin				Sunrise	Sun East	Local			Sunset	End				Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	Begin 15-deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight			Local Noon	Sun West	End Civil Twilight		End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight					
03/06/2023	M	4:45:34	5:02:26	5:19:11	5:52:35	6:21:22		12:04:05		17:47:31	18:16:21	18:49:49	19:06:37	19:23:32	11:26:09	-11.209	-5.546	100	
03/07/2023	Tu	4:43:47	5:00:41	5:17:27	5:50:51	6:19:37		12:03:50		17:48:48	18:17:37	18:51:05	19:07:54	19:24:51	11:29:11	-10.972	-5.158	100	
03/08/2023	W	4:42:00	4:58:54	5:15:42	5:49:06	6:17:51		12:03:36		17:50:04	18:18:52	18:52:21	19:09:12	19:26:10	11:32:13	-10.728	-4.768	97	
03/09/2023	Th	4:40:11	4:57:07	5:13:56	5:47:21	6:16:05		12:03:21		17:51:21	18:20:08	18:53:38	19:10:29	19:27:29	11:35:16	-10.477	-4.377	93	
03/10/2023	F	4:38:21	4:55:19	5:12:09	5:45:35	6:14:18		12:03:05		17:52:37	18:21:23	18:54:54	19:11:47	19:28:49	11:38:19	-10.222	-3.986	87	
03/11/2023	Sat	4:36:30	4:53:30	5:10:22	5:43:49	6:12:31		12:02:50		17:53:53	18:22:39	18:56:11	19:13:05	19:30:09	11:41:22	-9.960	-3.593	80	
03/12/2023	Sun*	5:34:38	5:51:41	6:08:33	6:42:02	7:10:44		13:02:34		18:55:09	19:23:54	19:57:28	20:14:24	20:31:30	11:44:25	-9.694	-3.200	71	
03/13/2023	M*	5:32:45	5:49:50	6:06:44	6:40:14	7:08:56		13:02:18		18:56:24	19:25:10	19:58:45	20:15:42	20:32:51	11:47:28	-9.424	-2.806	61	
03/14/2023	Tu*	5:30:52	5:47:59	6:04:55	6:38:26	7:07:08		13:02:01		18:57:39	19:26:25	20:00:02	20:17:01	20:34:12	11:50:31	-9.149	-2.412	50	
03/15/2023	W*	5:28:57	5:46:07	6:03:04	6:36:38	7:05:20		13:01:44		18:58:55	19:27:40	20:01:19	20:18:20	20:35:34	11:53:35	-8.871	-2.017	38	
03/16/2023	Th*	5:27:02	5:44:14	6:01:13	6:34:49	7:03:31		13:01:27		19:00:10	19:28:56	20:02:37	20:19:40	20:36:56	11:56:39	-8.589	-1.622	28	
03/17/2023	F*	5:25:05	5:42:20	5:59:22	6:33:00	7:01:42		13:01:10		19:01:24	19:30:11	20:03:54	20:21:00	20:38:19	11:59:42	-8.303	-1.226	18	
03/18/2023	Sat*	5:23:08	5:40:26	5:57:30	6:31:10	6:59:53		13:00:53		19:02:39	19:31:26	20:05:12	20:22:20	20:39:42	12:02:46	-8.015	-0.831	10	
03/19/2023	Sun*	5:21:11	5:38:31	5:55:37	6:29:20	6:58:04		13:00:36		19:03:54	19:32:41	20:06:31	20:23:40	20:41:05	12:05:50	-7.725	-0.435	4	
03/20/2023	M*	5:19:12	5:36:36	5:53:44	6:27:30	6:56:15		13:00:18		19:05:08	19:33:57	20:07:49	20:25:01	20:42:30	12:08:53	-7.432	-0.040	1	
03/21/2023	Tu*	5:17:13	5:34:40	5:51:51	6:25:40	6:54:25	7:02:29	13:00:00	18:56:08	19:06:22	19:35:12	20:09:08	20:26:22	20:43:54	12:11:57	-7.137	0.356	0	
03/22/2023	W*	5:15:12	5:32:43	5:49:57	6:23:49	6:52:36	7:03:49	12:59:43	18:54:12	19:07:36	19:36:27	20:10:26	20:27:44	20:45:19	12:15:01	-6.841	0.751	3	
03/23/2023	Th*	5:13:12	5:30:46	5:48:02	6:21:58	6:50:46	7:05:09	12:59:25	18:52:17	19:08:50	19:37:43	20:11:46	20:29:06	20:46:45	12:18:04	-6.543	1.145	7	
03/24/2023	F*	5:11:10	5:28:48	5:46:07	6:20:07	6:48:57	7:06:28	12:59:07	18:50:21	19:10:04	19:38:58	20:13:05	20:30:28	20:48:11	12:21:08	-6.243	1.539	14	
03/25/2023	Sat*	5:09:08	5:26:50	5:44:12	6:18:16	6:47:07	7:07:48	12:58:49	18:48:26	19:11:18	19:40:14	20:14:25	20:31:51	20:49:38	12:24:11	-5.943	1.932	22	
03/26/2023	Sun*	5:07:05	5:24:51	5:42:16	6:16:24	6:45:17	7:09:07	12:58:31	18:46:31	19:12:32	19:41:29	20:15:44	20:33:14	20:51:05	12:27:14	-5.642	2.325	31	
03/27/2023	M*	5:05:02	5:22:52	5:40:21	6:14:33	6:43:28	7:10:27	12:58:13	18:44:36	19:13:45	19:42:45	20:17:05	20:34:38	20:52:33	12:30:17	-5.341	2.717	41	
03/28/2023	Tu*	5:02:58	5:20:52	5:38:24	6:12:41	6:41:39	7:11:46	12:57:55	18:42:41	19:14:58	19:44:01	20:18:25	20:36:02	20:54:01	12:33:20	-5.040	3.108	50	
03/29/2023	W*	5:00:54	5:18:52	5:36:28	6:10:50	6:39:49	7:13:05	12:57:37	18:40:46	19:16:12	19:45:16	20:19:46	20:37:26	20:55:30	12:36:22	-4.739	3.498	60	
03/30/2023	Th*	4:58:49	5:16:52	5:34:31	6:08:58	6:38:00	7:14:24	12:57:19	18:38:51	19:17:25	19:46:32	20:21:07	20:38:51	20:57:00	12:39:25	-4.439	3.886	69	
03/31/2023	F*	4:56:43	5:14:51	5:32:34	6:07:07	6:36:11	7:15:43	12:57:01	18:36:57	19:18:38	19:47:48	20:22:28	20:40:16	20:58:30	12:42:27	-4.140	4.274	77	
04/01/2023	Sat*	4:54:37	5:12:50	5:30:38	6:05:15	6:34:23	7:17:01	12:56:43	18:35:03	19:19:51	19:49:04	20:23:50	20:41:42	21:00:01	12:45:28	-3.842	4.660	85	
04/02/2023	Sun*	4:52:31	5:10:49	5:28:40	6:03:24	6:32:34	7:18:20	12:56:25	18:33:10	19:21:04	19:50:20	20:25:12	20:43:08	21:01:33	12:48:30	-3.546	5.045	91	
04/03/2023	M*	4:50:24	5:08:48	5:26:43	6:01:33	6:30:46	7:19:39	12:56:07	18:31:16	19:22:17	19:51:36	20:26:34	20:44:35	21:03:05	12:51:31	-3.252	5.428	96	
04/04/2023	Tu*	4:48:17	5:06:46	5:24:46	5:59:42	6:28:58	7:20:57	12:55:50	18:29:24	19:23:30	19:52:52	20:27:57	20:46:02	21:04:38	12:54:32	-2.961	5.809	99	
04/05/2023	W*	4:46:09	5:04:44	5:22:49	5:57:51	6:27:11	7:22:16	12:55:33	18:27:31	19:24:43	19:54:09	20:29:20	20:47:29	21:06:11	12:57:32	-2.672	6.189	100	
04/06/2023	Th*	4:44:01	5:02:42	5:20:51	5:56:00	6:25:24	7:23:34	12:55:15	18:25:39	19:25:56	19:55:25	20:30:43	20:48:58	21:07:46	13:00:32	-2.387	6.567	99	
04/07/2023	F*	4:41:53	5:00:40	5:18:54	5:54:10	6:23:37	7:24:52	12:54:58	18:23:48	19:27:09	19:56:42	20:32:07	20:50:26	21:09:21	13:03:31	-2.104	6.944	96	
04/08/2023	Sat*	4:39:45	4:58:38	5:16:57	5:52:20	6:21:51	7:26:11	12:54:42	18:21:57	19:28:21	19:57:59	20:33:31	20:51:56	21:10:56	13:06:30	-1.826	7.318	91	
04/09/2023	Easter*	4:37:36	4:56:36	5:15:00	5:50:30	6:20:05	7:27:29	12:54:25	18:20:07	19:29:34	19:59:16	20:34:55	20:53:25	21:12:33	13:09:29	-1.552	7.690	84	
04/10/2023	M*	4:35:27	4:54:34	5:13:03	5:48:40	6:18:20	7:28:47	12:54:09	18:18:17	19:30:47	20:00:33	20:36:20	20:54:56	21:14:10	13:12:27	-1.282	8.060	75	
04/11/2023	Tu*	4:33:18	4:52:31	5:11:06	5:46:51	6:16:35	7:30:06	12:53:53	18:16:28	19:32:00	20:01:50	20:37:46	20:56:27	21:15:48	13:15:25	-1.018	8.428	64	
04/12/2023	W*	4:31:08	4:50:29	5:09:09	5:45:03	6:14:51	7:31:24	12:53:38	18:14:39	19:33:13	20:03:08	20:39:11	20:57:58	21:17:27	13:18:22	-0.758	8.794	53	
04/13/2023	Th*	4:28:59	4:48:27	5:07:13	5:43:15	6:13:08	7:32:42	12:53:22	18:12:51	19:34:26	20:04:26	20:40:38	20:59:30	21:19:07	13:21:18	-0.504	9.157	42	
04/14/2023	F*	4:26:49	4:46:25	5:05:17	5:41:27	6:11:25	7:34:01	12:53:08	18:11:04	19:35:39	20:05:44	20:42:04	21:01:03	21:20:47	13:24:14	-0.256	9.517	31	

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight													
04/15/2023	Sat*	4:24:40	4:44:23	5:03:21	5:39:40	6:09:43	7:35:19	12:52:53	18:09:18	19:36:52	20:07:02	20:43:31	21:02:36	21:22:28	13:27:09	-0.014	9.876	20
04/16/2023	Sun*	4:22:30	4:42:21	5:01:26	5:37:54	6:08:02	7:36:37	12:52:39	18:07:33	19:38:05	20:08:20	20:44:59	21:04:10	21:24:10	13:30:03	0.222	10.231	12
04/17/2023	M*	4:20:20	4:40:20	4:59:31	5:36:08	6:06:21	7:37:55	12:52:25	18:05:48	19:39:18	20:09:38	20:46:26	21:05:44	21:25:53	13:32:57	0.452	10.583	5
04/18/2023	Tu*	4:18:10	4:38:19	4:57:36	5:34:22	6:04:41	7:39:14	12:52:12	18:04:04	19:40:31	20:10:57	20:47:54	21:07:19	21:27:36	13:35:50	0.675	10.933	1
04/19/2023	W*	4:16:01	4:36:18	4:55:42	5:32:38	6:03:02	7:40:32	12:51:59	18:02:21	19:41:44	20:12:16	20:49:23	21:08:54	21:29:21	13:38:42	0.891	11.280	0
04/20/2023	Th*	4:13:51	4:34:17	4:53:48	5:30:54	6:01:24	7:41:50	12:51:46	18:00:39	19:42:57	20:13:34	20:50:52	21:10:30	21:31:06	13:41:33	1.101	11.623	1
04/21/2023	F*	4:11:42	4:32:17	4:51:55	5:29:11	5:59:47	7:43:08	12:51:34	17:58:58	19:44:10	20:14:53	20:52:21	21:12:07	21:32:51	13:44:24	1.303	11.964	4
04/22/2023	Sat*	4:09:32	4:30:17	4:50:02	5:27:28	5:58:10	7:44:26	12:51:22	17:57:18	19:45:23	20:16:12	20:53:50	21:13:43	21:34:38	13:47:13	1.498	12.301	10
04/23/2023	Sun*	4:07:23	4:28:17	4:48:10	5:25:47	5:56:35	7:45:44	12:51:11	17:55:39	19:46:36	20:17:31	20:55:20	21:15:21	21:36:25	13:50:01	1.685	12.635	17
04/24/2023	M*	4:05:14	4:26:18	4:46:18	5:24:06	5:55:00	7:47:01	12:51:00	17:54:01	19:47:49	20:18:50	20:56:50	21:16:58	21:38:13	13:52:49	1.866	12.965	25
04/25/2023	Tu*	4:03:06	4:24:20	4:44:28	5:22:26	5:53:26	7:48:19	12:50:50	17:52:25	19:49:01	20:20:09	20:58:20	21:18:36	21:40:01	13:55:35	2.038	13.292	34
04/26/2023	W*	4:00:57	4:22:22	4:42:38	5:20:47	5:51:54	7:49:36	12:50:40	17:50:49	19:50:14	20:21:28	20:59:50	21:20:15	21:41:50	13:58:20	2.202	13.615	43
04/27/2023	Th*	3:58:49	4:20:24	4:40:48	5:19:09	5:50:23	7:50:54	12:50:31	17:49:14	19:51:26	20:22:47	21:01:21	21:21:53	21:43:40	14:01:04	2.359	13.934	52
04/28/2023	F*	3:56:42	4:18:28	4:39:00	5:17:32	5:48:52	7:52:11	12:50:22	17:47:41	19:52:39	20:24:06	21:02:52	21:23:33	21:45:30	14:03:47	2.507	14.249	62
04/29/2023	Sat*	3:54:34	4:16:32	4:37:12	5:15:56	5:47:23	7:53:27	12:50:13	17:46:09	19:53:51	20:25:25	21:04:22	21:25:12	21:47:21	14:06:28	2.647	14.561	71
04/30/2023	Sun*	3:52:28	4:14:36	4:35:25	5:14:21	5:45:55	7:54:44	12:50:05	17:44:38	19:55:03	20:26:44	21:05:53	21:26:51	21:49:12	14:09:08	2.779	14.868	79
05/01/2023	M*	3:50:21	4:12:42	4:33:40	5:12:48	5:44:28	7:56:00	12:49:58	17:43:08	19:56:15	20:28:03	21:07:24	21:28:31	21:51:04	14:11:47	2.902	15.171	87
05/02/2023	Tu*	3:48:16	4:10:48	4:31:55	5:11:15	5:43:03	7:57:16	12:49:51	17:41:40	19:57:26	20:29:22	21:08:55	21:30:11	21:52:56	14:14:24	3.016	15.470	93
05/03/2023	W*	3:46:11	4:08:55	4:30:11	5:09:44	5:41:38	7:58:32	12:49:45	17:40:13	19:58:38	20:30:40	21:10:26	21:31:52	21:54:49	14:16:59	3.121	15.765	97
05/04/2023	Th*	3:44:06	4:07:03	4:28:28	5:08:14	5:40:15	7:59:48	12:49:39	17:38:48	19:59:49	20:31:58	21:11:57	21:33:32	21:56:42	14:19:33	3.218	16.056	100
05/05/2023	F*	3:42:02	4:05:12	4:26:47	5:06:45	5:38:54	8:01:03	12:49:34	17:37:24	20:00:59	20:33:17	21:13:28	21:35:12	21:58:36	14:22:06	3.305	16.341	100
05/06/2023	Sat*	3:39:59	4:03:22	4:25:06	5:05:17	5:37:33	8:02:18	12:49:29	17:36:02	20:02:10	20:34:34	21:14:59	21:36:53	22:00:30	14:24:36	3.382	16.623	98
05/07/2023	Sun*	3:37:57	4:01:34	4:23:27	5:03:51	5:36:15	8:03:32	12:49:25	17:34:41	20:03:20	20:35:52	21:16:30	21:38:33	22:02:24	14:27:05	3.451	16.900	93
05/08/2023	M*	3:35:56	3:59:46	4:21:49	5:02:26	5:34:57	8:04:46	12:49:22	17:33:21	20:04:30	20:37:09	21:18:00	21:40:14	22:04:18	14:29:33	3.509	17.172	86
05/09/2023	Tu*	3:33:55	3:57:59	4:20:12	5:01:03	5:33:42	8:05:59	12:49:19	17:32:04	20:05:40	20:38:26	21:19:31	21:41:54	22:06:12	14:31:58	3.558	17.439	77
05/10/2023	W*	3:31:56	3:56:14	4:18:37	4:59:41	5:32:27	8:07:13	12:49:16	17:30:48	20:06:49	20:39:43	21:21:01	21:43:34	22:08:07	14:34:21	3.598	17.702	67
05/11/2023	Th*	3:29:58	3:54:30	4:17:03	4:58:21	5:31:15	8:08:25	12:49:15	17:29:33	20:07:57	20:40:59	21:22:31	21:45:14	22:10:02	14:36:43	3.627	17.960	56
05/12/2023	F*	3:28:01	3:52:48	4:15:31	4:57:02	5:30:03	8:09:37	12:49:13	17:28:21	20:09:06	20:42:15	21:24:00	21:46:54	22:11:56	14:39:02	3.646	18.212	44
05/13/2023	Sat*	3:26:05	3:51:07	4:14:01	4:55:45	5:28:54	8:10:49	12:49:13	17:27:10	20:10:13	20:43:30	21:25:29	21:48:33	22:13:51	14:41:19	3.656	18.460	33
05/14/2023	Sun*	3:24:10	3:49:27	4:12:31	4:54:30	5:27:46	8:12:00	12:49:13	17:26:01	20:11:21	20:44:45	21:26:58	21:50:12	22:15:45	14:43:34	3.656	18.702	23
05/15/2023	M*	3:22:17	3:47:49	4:11:04	4:53:16	5:26:40	8:13:10	12:49:13	17:24:53	20:12:27	20:45:59	21:28:25	21:51:51	22:17:39	14:45:47	3.646	18.940	14
05/16/2023	Tu*	3:20:25	3:46:13	4:09:39	4:52:04	5:25:36	8:14:19	12:49:15	17:23:48	20:13:33	20:47:13	21:29:53	21:53:29	22:19:33	14:47:57	3.626	19.171	7
05/17/2023	W*	3:18:35	3:44:39	4:08:15	4:50:54	5:24:33	8:15:28	12:49:16	17:22:45	20:14:39	20:48:26	21:31:19	21:55:06	22:21:27	14:50:05	3.597	19.398	3
05/18/2023	Th*	3:16:46	3:43:06	4:06:53	4:49:46	5:23:33	8:16:36	12:49:19	17:21:43	20:15:43	20:49:38	21:32:45	21:56:43	22:23:19	14:52:11	3.558	19.619	0
05/19/2023	F*	3:14:59	3:41:35	4:05:33	4:48:39	5:22:34	8:17:43	12:49:22	17:20:43	20:16:47	20:50:49	21:34:10	21:58:18	22:25:11	14:54:13	3.510	19.834	0
05/20/2023	Sat*	3:13:13	3:40:06	4:04:15	4:47:35	5:21:37	8:18:49	12:49:25	17:19:46	20:17:50	20:52:00	21:35:34	21:59:53	22:27:03	14:56:13	3.453	20.044	2
05/21/2023	Sun*	3:11:30	3:38:39	4:02:58	4:46:33	5:20:42	8:19:54	12:49:29	17:18:50	20:18:52	20:53:09	21:36:57	22:01:27	22:28:53	14:58:11	3.387	20.248	6
05/22/2023	M*	3:09:49	3:37:15	4:01:44	4:45:32	5:19:48	8:20:59	12:49:33	17:17:57	20:19:54	20:54:18	21:38:19	22:03:00	22:30:43	15:00:05	3.312	20.446	12
05/23/2023	Tu*	3:08:09	3:35:52	4:00:33	4:44:34	5:18:57	8:22:02	12:49:38	17:17:05	20:20:54	20:55:25	21:39:40	22:04:31	22:32:31	15:01:57	3.229	20.639	19
05/24/2023	W*	3:06:32	3:34:32	3:59:23	4:43:37	5:18:08	8:23:04	12:49:44	17:16:16	20:21:53	20:56:31	21:40:59	22:06:01	22:34:18	15:03:46	3.138	20.825	27

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End Civil	End Nautical	End 15-deg.	End Astro-	Length of Day	Noon Eqn Time (min.)	Noon	9 PM
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight												sun declination (deg.)	Lunar Illum. (pct.)
05/25/2023	Th*	3:04:57	3:33:14	3:58:16	4:42:43	5:17:21	8:24:05	12:49:50	17:15:29	20:22:52	20:57:37	21:42:17	22:07:30	22:36:03	15:05:31	3.038	21.006	36
05/26/2023	F*	3:03:25	3:31:58	3:57:10	4:41:51	5:16:35	8:25:04	12:49:56	17:14:43	20:23:49	20:58:41	21:43:34	22:08:57	22:37:47	15:07:14	2.931	21.180	45
05/27/2023	Sat*	3:01:55	3:30:45	3:56:08	4:41:01	5:15:52	8:26:02	12:50:03	17:14:01	20:24:45	20:59:43	21:44:49	22:10:23	22:39:30	15:08:53	2.816	21.348	55
05/28/2023	Sun*	3:00:27	3:29:34	3:55:08	4:40:13	5:15:11	8:26:59	12:50:11	17:13:20	20:25:40	21:00:45	21:46:03	22:11:46	22:41:10	15:10:29	2.693	21.511	64
05/29/2023	M*	2:59:02	3:28:26	3:54:10	4:39:28	5:14:32	8:27:55	12:50:18	17:12:41	20:26:33	21:01:44	21:47:14	22:13:08	22:42:49	15:12:01	2.563	21.666	73
05/30/2023	Tu*	2:57:41	3:27:21	3:53:15	4:38:44	5:13:55	8:28:49	12:50:27	17:12:05	20:27:26	21:02:43	21:48:25	22:14:28	22:44:25	15:13:31	2.427	21.816	82
05/31/2023	W*	2:56:22	3:26:18	3:52:22	4:38:04	5:13:20	8:29:42	12:50:35	17:11:31	20:28:17	21:03:40	21:49:33	22:15:46	22:45:59	15:14:56	2.283	21.959	89
06/01/2023	Th*	2:55:06	3:25:19	3:51:32	4:37:25	5:12:48	8:30:33	12:50:44	17:10:59	20:29:06	21:04:35	21:50:39	22:17:02	22:47:31	15:16:19	2.133	22.096	95
06/02/2023	F*	2:53:53	3:24:22	3:50:45	4:36:49	5:12:17	8:31:23	12:50:54	17:10:30	20:29:54	21:05:29	21:51:43	22:18:15	22:49:00	15:17:37	1.976	22.227	99
06/03/2023	Sat*	2:52:44	3:23:29	3:50:00	4:36:15	5:11:49	8:32:11	12:51:03	17:10:03	20:30:41	21:06:21	21:52:46	22:19:26	22:50:26	15:18:52	1.814	22.351	100
06/04/2023	Sun*	2:51:38	3:22:38	3:49:19	4:35:44	5:11:23	8:32:57	12:51:13	17:09:38	20:31:26	21:07:11	21:53:46	22:20:35	22:51:49	15:20:03	1.645	22.468	99
06/05/2023	M*	2:50:36	3:21:51	3:48:40	4:35:15	5:10:59	8:33:42	12:51:24	17:09:16	20:32:10	21:07:59	21:54:43	22:21:41	22:53:09	15:21:11	1.471	22.579	95
06/06/2023	Tu*	2:49:38	3:21:07	3:48:04	4:34:48	5:10:37	8:34:25	12:51:35	17:08:56	20:32:52	21:08:46	21:55:39	22:22:44	22:54:27	15:22:14	1.292	22.683	88
06/07/2023	W*	2:48:43	3:20:26	3:47:31	4:34:24	5:10:18	8:35:06	12:51:46	17:08:38	20:33:32	21:09:30	21:56:32	22:23:45	22:55:40	15:23:14	1.107	22.781	79
06/08/2023	Th*	2:47:53	3:19:49	3:47:01	4:34:03	5:10:01	8:35:46	12:51:57	17:08:23	20:34:11	21:10:13	21:57:23	22:24:42	22:56:50	15:24:10	0.917	22.872	69
06/09/2023	F*	2:47:07	3:19:15	3:46:34	4:33:44	5:09:46	8:36:23	12:52:09	17:08:10	20:34:48	21:10:54	21:58:11	22:25:37	22:57:57	15:25:02	0.722	22.957	58
06/10/2023	Sat*	2:46:24	3:18:44	3:46:10	4:33:27	5:09:33	8:36:59	12:52:21	17:07:59	20:35:23	21:11:32	21:58:56	22:26:29	22:59:00	15:25:50	0.524	23.034	47
06/11/2023	Sun*	2:45:47	3:18:17	3:45:50	4:33:14	5:09:23	8:37:33	12:52:33	17:07:51	20:35:56	21:12:09	21:59:39	22:27:17	22:59:58	15:26:33	0.321	23.105	36
06/12/2023	M*	2:45:13	3:17:54	3:45:32	4:33:02	5:09:15	8:38:04	12:52:45	17:07:45	20:36:28	21:12:43	22:00:19	22:28:02	23:00:53	15:27:13	0.115	23.169	25
06/13/2023	Tu*	2:44:44	3:17:35	3:45:18	4:32:54	5:09:09	8:38:34	12:52:58	17:07:42	20:36:58	21:13:16	22:00:57	22:28:44	23:01:43	15:27:48	-0.095	23.227	17
06/14/2023	W*	2:44:20	3:17:19	3:45:06	4:32:47	5:09:05	8:39:02	12:53:11	17:07:41	20:37:25	21:13:46	22:01:31	22:29:23	23:02:29	15:28:20	-0.307	23.277	10
06/15/2023	Th*	2:44:00	3:17:07	3:44:58	4:32:44	5:09:04	8:39:27	12:53:24	17:07:42	20:37:51	21:14:13	22:02:03	22:29:58	23:03:10	15:28:47	-0.522	23.321	4
06/16/2023	F*	2:43:46	3:16:58	3:44:53	4:32:43	5:09:05	8:39:50	12:53:37	17:07:46	20:38:15	21:14:39	22:02:31	22:30:29	23:03:47	15:29:10	-0.739	23.358	1
06/17/2023	Sat*	2:43:36	3:16:54	3:44:52	4:32:44	5:09:08	8:40:11	12:53:50	17:07:52	20:38:36	21:15:02	22:02:57	22:30:57	23:04:19	15:29:28	-0.957	23.388	0
06/18/2023	Sun*	2:43:30	3:16:53	3:44:53	4:32:48	5:09:13	8:40:30	12:54:03	17:08:00	20:38:56	21:15:22	22:03:19	22:31:21	23:04:47	15:29:43	-1.176	23.411	1
06/19/2023	M*	2:43:30	3:16:56	3:44:58	4:32:55	5:09:21	8:40:47	12:54:16	17:08:11	20:39:14	21:15:40	22:03:39	22:31:42	23:05:09	15:29:53	-1.396	23.427	4
06/20/2023	Tu*	2:43:35	3:17:03	3:45:06	4:33:04	5:09:31	8:41:01	12:54:29	17:08:23	20:39:29	21:15:56	22:03:55	22:31:58	23:05:27	15:29:58	-1.616	23.436	8
06/21/2023	W*	2:43:44	3:17:13	3:45:16	4:33:15	5:09:42	8:41:13	12:54:42	17:08:38	20:39:42	21:16:09	22:04:08	22:32:11	23:05:40	15:30:00	-1.835	23.438	14
06/22/2023	Th*	2:43:59	3:17:27	3:45:31	4:33:29	5:09:56	8:41:23	12:54:55	17:08:56	20:39:53	21:16:20	22:04:18	22:32:20	23:05:47	15:29:57	-2.053	23.434	21
06/23/2023	F*	2:44:18	3:17:45	3:45:48	4:33:46	5:10:12	8:41:30	12:55:08	17:09:15	20:40:02	21:16:28	22:04:24	22:32:26	23:05:50	15:29:50	-2.271	23.422	30
06/24/2023	Sat*	2:44:42	3:18:06	3:46:08	4:34:04	5:10:30	8:41:35	12:55:21	17:09:36	20:40:08	21:16:33	22:04:27	22:32:27	23:05:48	15:29:38	-2.486	23.404	39
06/25/2023	Sun*	2:45:10	3:18:31	3:46:31	4:34:25	5:10:50	8:41:38	12:55:34	17:10:00	20:40:12	21:16:36	22:04:28	22:32:25	23:05:41	15:29:22	-2.700	23.379	48
06/26/2023	M*	2:45:43	3:19:00	3:46:57	4:34:49	5:11:12	8:41:38	12:55:47	17:10:26	20:40:14	21:16:36	22:04:24	22:32:18	23:05:29	15:29:02	-2.911	23.347	58
06/27/2023	Tu*	2:46:21	3:19:32	3:47:26	4:35:14	5:11:36	8:41:36	12:55:59	17:10:53	20:40:14	21:16:34	22:04:18	22:32:08	23:05:12	15:28:38	-3.119	23.308	68
06/28/2023	W*	2:47:04	3:20:08	3:47:58	4:35:42	5:12:02	8:41:31	12:56:12	17:11:23	20:40:12	21:16:29	22:04:08	22:31:54	23:04:51	15:28:10	-3.324	23.262	77
06/29/2023	Th*	2:47:50	3:20:47	3:48:33	4:36:12	5:12:30	8:41:24	12:56:24	17:11:55	20:40:07	21:16:21	22:03:55	22:31:37	23:04:24	15:27:37	-3.525	23.209	85
06/30/2023	F*	2:48:41	3:21:29	3:49:10	4:36:44	5:12:59	8:41:14	12:56:36	17:12:28	20:39:59	21:16:11	22:03:39	22:31:16	23:03:54	15:27:00	-3.722	23.150	92
07/01/2023	Sat*	2:49:36	3:22:14	3:49:50	4:37:19	5:13:31	8:41:02	12:56:47	17:13:03	20:39:50	21:15:58	22:03:20	22:30:51	23:03:18	15:26:19	-3.915	23.084	97
07/02/2023	Sun*	2:50:35	3:23:03	3:50:33	4:37:55	5:14:04	8:40:48	12:56:58	17:13:41	20:39:38	21:15:43	22:02:58	22:30:22	23:02:38	15:25:34	-4.103	23.011	100
07/03/2023	M*	2:51:38	3:23:54	3:51:19	4:38:33	5:14:38	8:40:31	12:57:09	17:14:20	20:39:24	21:15:25	22:02:32	22:29:50	23:01:54	15:24:46	-4.287	22.932	99

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End					Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight						End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day			
07/04/2023	Tu*	2:52:45	3:24:49	3:52:07	4:39:14	5:15:15	8:40:12	12:57:20	17:15:00	20:39:08	21:15:05	22:02:04	22:29:14	23:01:06	15:23:53	-4.465	22.845	96
07/05/2023	W*	2:53:55	3:25:46	3:52:57	4:39:56	5:15:53	8:39:50	12:57:30	17:15:43	20:38:49	21:14:42	22:01:32	22:28:35	23:00:13	15:22:56	-4.638	22.753	90
07/06/2023	Th*	2:55:08	3:26:47	3:53:50	4:40:40	5:16:33	8:39:26	12:57:41	17:16:27	20:38:28	21:14:16	22:00:58	22:27:53	22:59:17	15:21:55	-4.806	22.653	81
07/07/2023	F*	2:56:25	3:27:50	3:54:45	4:41:26	5:17:14	8:39:00	12:57:50	17:17:12	20:38:05	21:13:48	22:00:20	22:27:07	22:58:17	15:20:51	-4.967	22.548	72
07/08/2023	Sat*	2:57:45	3:28:55	3:55:42	4:42:14	5:17:57	8:38:31	12:58:00	17:18:00	20:37:40	21:13:18	21:59:40	22:26:18	22:57:13	15:19:42	-5.123	22.435	61
07/09/2023	Sun*	2:59:08	3:30:03	3:56:41	4:43:03	5:18:42	8:38:00	12:58:09	17:18:49	20:37:12	21:12:45	21:58:56	22:25:26	22:56:06	15:18:30	-5.272	22.316	50
07/10/2023	M*	3:00:33	3:31:13	3:57:43	4:43:55	5:19:27	8:37:27	12:58:17	17:19:39	20:36:42	21:12:09	21:58:10	22:24:30	22:54:55	15:17:15	-5.415	22.191	39
07/11/2023	Tu*	3:02:02	3:32:26	3:58:46	4:44:47	5:20:15	8:36:52	12:58:25	17:20:31	20:36:10	21:11:31	21:57:21	22:23:32	22:53:40	15:15:55	-5.550	22.060	29
07/12/2023	W*	3:03:32	3:33:41	3:59:52	4:45:42	5:21:03	8:36:14	12:58:33	17:21:24	20:35:36	21:10:51	21:56:30	22:22:31	22:52:23	15:14:32	-5.679	21.922	20
07/13/2023	Th*	3:05:05	3:34:58	4:00:59	4:46:37	5:21:53	8:35:33	12:58:40	17:22:18	20:34:59	21:10:09	21:55:35	22:21:27	22:51:03	15:13:06	-5.800	21.777	12
07/14/2023	F*	3:06:41	3:36:17	4:02:08	4:47:35	5:22:44	8:34:51	12:58:47	17:23:14	20:34:21	21:09:24	21:54:39	22:20:20	22:49:39	15:11:36	-5.913	21.627	7
07/15/2023	Sat*	3:08:18	3:37:37	4:03:18	4:48:33	5:23:37	8:34:07	12:58:53	17:24:11	20:33:40	21:08:37	21:53:39	22:19:10	22:48:13	15:10:03	-6.018	21.470	3
07/16/2023	Sun*	3:09:57	3:39:00	4:04:31	4:49:33	5:24:30	8:33:20	12:58:59	17:25:09	20:32:57	21:07:47	21:52:37	22:17:58	22:46:44	15:08:27	-6.114	21.308	1
07/17/2023	M*	3:11:37	3:40:23	4:05:44	4:50:34	5:25:25	8:32:31	12:59:04	17:26:08	20:32:12	21:06:56	21:51:33	22:16:43	22:45:12	15:06:48	-6.203	21.139	0
07/18/2023	Tu*	3:13:20	3:41:49	4:06:59	4:51:37	5:26:20	8:31:40	12:59:09	17:27:08	20:31:25	21:06:02	21:50:26	22:15:26	22:43:38	15:05:05	-6.282	20.964	2
07/19/2023	W*	3:15:03	3:43:16	4:08:15	4:52:40	5:27:17	8:30:46	12:59:13	17:28:09	20:30:36	21:05:06	21:49:17	22:14:06	22:42:02	15:03:20	-6.352	20.784	5
07/20/2023	Th*	3:16:48	3:44:44	4:09:33	4:53:45	5:28:14	8:29:51	12:59:17	17:29:11	20:29:45	21:04:08	21:48:06	22:12:44	22:40:23	15:01:31	-6.412	20.597	10
07/21/2023	F*	3:18:34	3:46:13	4:10:52	4:54:50	5:29:13	8:28:54	12:59:20	17:30:14	20:28:52	21:03:07	21:46:52	22:11:20	22:38:42	14:59:39	-6.464	20.405	16
07/22/2023	Sat*	3:20:21	3:47:44	4:12:11	4:55:56	5:30:12	8:27:54	12:59:23	17:31:18	20:27:57	21:02:05	21:45:36	22:09:53	22:36:59	14:57:45	-6.505	20.207	24
07/23/2023	Sun*	3:22:09	3:49:15	4:13:32	4:57:04	5:31:12	8:26:53	12:59:24	17:32:23	20:27:00	21:01:01	21:44:19	22:08:25	22:35:14	14:55:48	-6.536	20.004	33
07/24/2023	M*	3:23:57	3:50:47	4:14:53	4:58:12	5:32:13	8:25:49	12:59:26	17:33:28	20:26:01	20:59:55	21:42:59	22:06:54	22:33:28	14:53:49	-6.558	19.795	42
07/25/2023	Tu*	3:25:47	3:52:20	4:16:16	4:59:20	5:33:14	8:24:44	12:59:26	17:34:34	20:25:00	20:58:46	21:41:37	22:05:22	22:31:39	14:51:46	-6.569	19.580	52
07/26/2023	W*	3:27:36	3:53:54	4:17:39	5:00:30	5:34:16	8:23:37	12:59:26	17:35:41	20:23:58	20:57:36	21:40:13	22:03:48	22:29:49	14:49:42	-6.570	19.360	62
07/27/2023	Th*	3:29:26	3:55:28	4:19:03	5:01:40	5:35:19	8:22:28	12:59:26	17:36:48	20:22:53	20:56:24	21:38:48	22:02:11	22:27:57	14:47:35	-6.561	19.135	72
07/28/2023	F*	3:31:17	3:57:03	4:20:27	5:02:51	5:36:22	8:21:17	12:59:25	17:37:56	20:21:47	20:55:11	21:37:20	22:00:34	22:26:04	14:45:25	-6.542	18.904	82
07/29/2023	Sat*	3:33:08	3:58:38	4:21:52	5:04:02	5:37:26	8:20:04	12:59:23	17:39:05	20:20:39	20:53:55	21:35:51	21:58:54	22:24:09	14:43:13	-6.512	18.669	90
07/30/2023	Sun*	3:34:59	4:00:14	4:23:17	5:05:14	5:38:30	8:18:49	12:59:21	17:40:14	20:19:30	20:52:38	21:34:21	21:57:13	22:22:13	14:40:59	-6.472	18.428	96
07/31/2023	M*	3:36:50	4:01:50	4:24:43	5:06:26	5:39:35	8:17:33	12:59:17	17:41:23	20:18:18	20:51:19	21:32:48	21:55:30	22:20:16	14:38:43	-6.421	18.182	99
08/01/2023	Tu*	3:38:41	4:03:27	4:26:09	5:07:39	5:40:40	8:16:15	12:59:14	17:42:33	20:17:05	20:49:59	21:31:14	21:53:46	22:18:17	14:36:25	-6.360	17.932	100
08/02/2023	W*	3:40:32	4:05:03	4:27:35	5:08:52	5:41:46	8:14:56	12:59:10	17:43:44	20:15:51	20:48:37	21:29:39	21:52:01	22:16:18	14:34:05	-6.290	17.676	97
08/03/2023	Th*	3:42:23	4:06:40	4:29:02	5:10:05	5:42:52	8:13:35	12:59:05	17:44:54	20:14:35	20:47:13	21:28:02	21:50:14	22:14:17	14:31:43	-6.209	17.416	92
08/04/2023	F*	3:44:14	4:08:17	4:30:29	5:11:19	5:43:58	8:12:12	12:58:59	17:46:05	20:13:17	20:45:48	21:26:24	21:48:26	22:12:16	14:29:19	-6.118	17.151	84
08/05/2023	Sat*	3:46:04	4:09:53	4:31:56	5:12:33	5:45:05	8:10:48	12:58:53	17:47:17	20:11:58	20:44:21	21:24:45	21:46:37	22:10:13	14:26:53	-6.017	16.881	75
08/06/2023	Sun*	3:47:54	4:11:30	4:33:23	5:13:47	5:46:12	8:09:22	12:58:47	17:48:29	20:10:37	20:42:54	21:23:04	21:44:47	22:08:09	14:24:26	-5.907	16.607	64
08/07/2023	M*	3:49:44	4:13:07	4:34:51	5:15:02	5:47:19	8:07:55	12:58:39	17:49:41	20:09:15	20:41:24	21:21:22	21:42:56	22:06:05	14:21:56	-5.787	16.329	53
08/08/2023	Tu*	3:51:34	4:14:44	4:36:18	5:16:16	5:48:26	8:06:26	12:58:32	17:50:53	20:07:52	20:39:54	21:19:39	21:41:03	22:04:00	14:19:25	-5.658	16.046	43
08/09/2023	W*	3:53:23	4:16:21	4:37:45	5:17:31	5:49:34	8:04:57	12:58:23	17:52:06	20:06:27	20:38:22	21:17:55	21:39:10	22:01:54	14:16:53	-5.519	15.758	33
08/10/2023	Th*	3:55:12	4:17:57	4:39:13	5:18:46	5:50:42	8:03:25	12:58:14	17:53:18	20:05:01	20:36:49	21:16:09	21:37:16	21:59:48	14:14:19	-5.371	15.467	24
08/11/2023	F*	3:57:01	4:19:33	4:40:40	5:20:01	5:51:50	8:01:53	12:58:05	17:54:31	20:03:34	20:35:15	21:14:23	21:35:21	21:57:41	14:11:44	-5.214	15.171	16
08/12/2023	Sat*	3:58:49	4:21:09	4:42:08	5:21:17	5:52:58	8:00:19	12:57:55	17:55:45	20:02:05	20:33:39	21:12:36	21:33:25	21:55:34	14:09:07	-5.047	14.871	10

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin Astro-nomical Twilight	Begin 15-deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15-deg. Twilight	End Astro-nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun declination (deg.)	9 PM Lunar Illum. (pct.)
08/13/2023	Sun*	4:00:36	4:22:45	4:43:35	5:22:32	5:54:07	7:58:44	12:57:45	17:56:58	20:00:36	20:32:03	21:10:47	21:31:28	21:53:26	14:06:29	-4.872	14.567	5
08/14/2023	M*	4:02:23	4:24:21	4:45:02	5:23:47	5:55:15	7:57:08	12:57:33	17:58:11	19:59:05	20:30:25	21:08:58	21:29:31	21:51:17	14:03:49	-4.687	14.260	2
08/15/2023	Tu*	4:04:09	4:25:56	4:46:28	5:25:02	5:56:24	7:55:30	12:57:22	17:59:25	19:57:33	20:28:47	21:07:08	21:27:32	21:49:08	14:01:09	-4.493	13.948	0
08/16/2023	W*	4:05:54	4:27:30	4:47:55	5:26:18	5:57:33	7:53:52	12:57:10	18:00:38	19:55:59	20:27:07	21:05:17	21:25:34	21:46:59	13:58:27	-4.291	13.633	1
08/17/2023	Th*	4:07:39	4:29:05	4:49:21	5:27:33	5:58:41	7:52:12	12:56:57	18:01:52	19:54:25	20:25:27	21:03:26	21:23:34	21:44:49	13:55:44	-4.080	13.314	3
08/18/2023	F*	4:09:23	4:30:38	4:50:47	5:28:48	5:59:50	7:50:32	12:56:44	18:03:06	19:52:50	20:23:45	21:01:33	21:21:34	21:42:39	13:53:00	-3.861	12.992	7
08/19/2023	Sat*	4:11:07	4:32:12	4:52:13	5:30:03	6:00:59	7:48:50	12:56:30	18:04:20	19:51:14	20:22:03	20:59:40	21:19:34	21:40:29	13:50:15	-3.633	12.667	12
08/20/2023	Sun*	4:12:49	4:33:45	4:53:39	5:31:18	6:02:08	7:47:07	12:56:16	18:05:33	19:49:36	20:20:19	20:57:47	21:17:33	21:38:18	13:47:28	-3.396	12.338	19
08/21/2023	M*	4:14:31	4:35:17	4:55:04	5:32:32	6:03:17	7:45:24	12:56:01	18:06:47	19:47:58	20:18:35	20:55:53	21:15:31	21:36:07	13:44:41	-3.152	12.005	27
08/22/2023	Tu*	4:16:12	4:36:49	4:56:28	5:33:47	6:04:25	7:43:39	12:55:46	18:08:01	19:46:19	20:16:50	20:53:58	21:13:30	21:33:57	13:41:54	-2.900	11.670	37
08/23/2023	W*	4:17:53	4:38:20	4:57:53	5:35:01	6:05:34	7:41:53	12:55:31	18:09:15	19:44:39	20:15:05	20:52:02	21:11:27	21:31:45	13:39:05	-2.640	11.332	47
08/24/2023	Th*	4:19:32	4:39:51	4:59:17	5:36:16	6:06:43	7:40:07	12:55:15	18:10:29	19:42:58	20:13:18	20:50:06	21:09:25	21:29:34	13:36:15	-2.372	10.990	58
08/25/2023	F*	4:21:11	4:41:21	5:00:40	5:37:30	6:07:52	7:38:20	12:54:58	18:11:42	19:41:16	20:11:31	20:48:10	21:07:22	21:27:23	13:33:25	-2.097	10.646	68
08/26/2023	Sat*	4:22:49	4:42:51	5:02:03	5:38:44	6:09:00	7:36:32	12:54:41	18:12:56	19:39:34	20:09:44	20:46:13	21:05:19	21:25:12	13:30:34	-1.816	10.299	78
08/27/2023	Sun*	4:24:26	4:44:20	5:03:26	5:39:57	6:10:09	7:34:43	12:54:24	18:14:10	19:37:51	20:07:55	20:44:16	21:03:16	21:23:01	13:27:42	-1.527	9.949	87
08/28/2023	M*	4:26:03	4:45:49	5:04:49	5:41:11	6:11:17	7:32:54	12:54:06	18:15:23	19:36:07	20:06:07	20:42:19	21:01:12	21:20:49	13:24:50	-1.232	9.597	94
08/29/2023	Tu*	4:27:38	4:47:16	5:06:10	5:42:24	6:12:26	7:31:04	12:53:48	18:16:37	19:34:22	20:04:17	20:40:21	20:59:08	21:18:38	13:21:57	-0.931	9.242	98
08/30/2023	W*	4:29:13	4:48:44	5:07:32	5:43:37	6:13:34	7:29:13	12:53:30	18:17:51	19:32:37	20:02:27	20:38:23	20:57:05	21:16:27	13:19:03	-0.624	8.885	100
08/31/2023	Th*	4:30:47	4:50:11	5:08:53	5:44:50	6:14:42	7:27:21	12:53:11	18:19:04	19:30:51	20:00:37	20:36:25	20:55:01	21:14:16	13:16:09	-0.312	8.526	98
09/01/2023	F*	4:32:21	4:51:37	5:10:14	5:46:03	6:15:51	7:25:29	12:52:52	18:20:18	19:29:05	19:58:46	20:34:26	20:52:57	21:12:05	13:13:14	0.006	8.164	94
09/02/2023	Sat*	4:33:53	4:53:03	5:11:34	5:47:16	6:16:59	7:23:37	12:52:33	18:21:32	19:27:18	19:56:55	20:32:27	20:50:53	21:09:55	13:10:19	0.328	7.800	87
09/03/2023	Sun*	4:35:25	4:54:28	5:12:54	5:48:28	6:18:07	7:21:44	12:52:13	18:22:46	19:25:30	19:55:04	20:30:29	20:48:49	21:07:45	13:07:23	0.655	7.434	78
09/04/2023	M*	4:36:56	4:55:52	5:14:14	5:49:41	6:19:16	7:19:50	12:51:53	18:23:59	19:23:42	19:53:12	20:28:30	20:46:45	21:05:34	13:04:27	0.985	7.066	69
09/05/2023	Tu*	4:38:26	4:57:16	5:15:33	5:50:53	6:20:24	7:17:56	12:51:33	18:25:13	19:21:54	19:51:20	20:26:31	20:44:41	21:03:24	13:01:30	1.320	6.695	58
09/06/2023	W*	4:39:56	4:58:40	5:16:52	5:52:05	6:21:32	7:16:01	12:51:13	18:26:27	19:20:05	19:49:27	20:24:32	20:42:38	21:01:15	12:58:33	1.658	6.324	48
09/07/2023	Th*	4:41:25	5:00:03	5:18:10	5:53:17	6:22:41	7:14:07	12:50:52	18:27:41	19:18:16	19:47:35	20:22:33	20:40:34	20:59:06	12:55:35	1.998	5.950	38
09/08/2023	F*	4:42:53	5:01:26	5:19:28	5:54:28	6:23:49	7:12:11	12:50:32	18:28:55	19:16:26	19:45:42	20:20:34	20:38:31	20:56:57	12:52:37	2.342	5.574	29
09/09/2023	Sat*	4:44:21	5:02:48	5:20:46	5:55:40	6:24:58	7:10:16	12:50:11	18:30:09	19:14:37	19:43:49	20:18:35	20:36:27	20:54:48	12:49:39	2.688	5.197	21
09/10/2023	Sun*	4:45:48	5:04:10	5:22:03	5:56:52	6:26:06	7:08:20	12:49:50	18:31:23	19:12:46	19:41:56	20:16:36	20:34:24	20:52:40	12:46:40	3.037	4.819	14
09/11/2023	M*	4:47:14	5:05:31	5:23:21	5:58:03	6:27:15	7:06:24	12:49:29	18:32:38	19:10:56	19:40:02	20:14:37	20:32:22	20:50:32	12:43:41	3.388	4.439	8
09/12/2023	Tu*	4:48:40	5:06:51	5:24:37	5:59:14	6:28:23	7:04:27	12:49:08	18:33:52	19:09:05	19:38:09	20:12:38	20:30:19	20:48:25	12:40:42	3.740	4.058	4
09/13/2023	W*	4:50:05	5:08:12	5:25:54	6:00:25	6:29:32	7:02:30	12:48:47	18:35:06	19:07:14	19:36:16	20:10:40	20:28:17	20:46:18	12:37:43	4.093	3.675	1
09/14/2023	Th*	4:51:30	5:09:31	5:27:10	6:01:37	6:30:40	7:00:34	12:48:25	18:36:21	19:05:23	19:34:22	20:08:41	20:26:15	20:44:11	12:34:43	4.448	3.292	0
09/15/2023	F*	4:52:53	5:10:51	5:28:26	6:02:47	6:31:49	6:58:37	12:48:04	18:37:35	19:03:32	19:32:29	20:06:43	20:24:14	20:42:06	12:31:43	4.804	2.907	1
09/16/2023	Sat*	4:54:17	5:12:10	5:29:41	6:03:58	6:32:58	6:56:39	12:47:43	18:38:50	19:01:41	19:30:35	20:04:45	20:22:12	20:40:00	12:28:43	5.160	2.522	4
09/17/2023	Sun*	4:55:39	5:13:28	5:30:56	6:05:09	6:34:07	6:54:42	12:47:21	18:40:05	18:59:49	19:28:42	20:02:48	20:20:12	20:37:56	12:25:43	5.516	2.136	9
09/18/2023	M*	4:57:01	5:14:46	5:32:11	6:06:20	6:35:15	6:52:45	12:47:00	18:41:20	18:57:58	19:26:49	20:00:51	20:18:11	20:35:51	12:22:42	5.873	1.749	15
09/19/2023	Tu*	4:58:23	5:16:04	5:33:26	6:07:30	6:36:24	6:50:47	12:46:38	18:42:35	18:56:06	19:24:56	19:58:54	20:16:12	20:33:48	12:19:42	6.229	1.361	23
09/20/2023	W*	4:59:44	5:17:21	5:34:40	6:08:41	6:37:33	6:48:50	12:46:17	18:43:50	18:54:15	19:23:03	19:56:57	20:14:12	20:31:45	12:16:41	6.584	0.973	32
09/21/2023	Th*	5:01:04	5:18:38	5:35:54	6:09:52	6:38:43	6:46:52	12:45:56	18:45:05	18:52:23	19:21:10	19:55:01	20:12:13	20:29:42	12:13:40	6.939	0.585	43

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	9 PM		
		Astro-nomical Twilight	15-deg. Twilight	Nautical Twilight	Civil Twilight			Noon			End Civil Twilight	Nautical Twilight	deg. Twilight		Eqn Time (min.)	sun declination (deg.)	Lunar Illum. (pct.)	
09/22/2023	F*	5:02:24	5:19:54	5:37:08	6:11:02	6:39:52	6:44:55	12:45:35	18:46:20	18:50:32	19:19:17	19:53:05	20:10:15	20:27:41	12:10:40	7.292	0.196	54
09/23/2023	Sat*	5:03:43	5:21:10	5:38:21	6:12:12	6:41:01		12:45:14		18:48:40	19:17:25	19:51:10	20:08:17	20:25:40	12:07:39	7.644	-0.193	65
09/24/2023	Sun*	5:05:02	5:22:26	5:39:35	6:13:23	6:42:11		12:44:53		18:46:49	19:15:33	19:49:15	20:06:20	20:23:40	12:04:38	7.994	-0.583	75
09/25/2023	M*	5:06:21	5:23:41	5:40:48	6:14:33	6:43:20		12:44:32		18:44:58	19:13:41	19:47:21	20:04:24	20:21:40	12:01:37	8.342	-0.972	85
09/26/2023	Tu*	5:07:38	5:24:56	5:42:01	6:15:43	6:44:30		12:44:11		18:43:07	19:11:50	19:45:27	20:02:28	20:19:41	11:58:37	8.687	-1.361	92
09/27/2023	W*	5:08:56	5:26:11	5:43:13	6:16:54	6:45:40		12:43:50		18:41:16	19:09:59	19:43:33	20:00:32	20:17:44	11:55:36	9.030	-1.750	97
09/28/2023	Th*	5:10:13	5:27:25	5:44:26	6:18:04	6:46:50		12:43:30		18:39:25	19:08:08	19:41:41	19:58:38	20:15:47	11:52:35	9.368	-2.139	100
09/29/2023	F*	5:11:29	5:28:40	5:45:38	6:19:14	6:48:00		12:43:10		18:37:35	19:06:18	19:39:49	19:56:44	20:13:50	11:49:35	9.703	-2.527	99
09/30/2023	Sat*	5:12:46	5:29:53	5:46:50	6:20:25	6:49:11		12:42:50		18:35:45	19:04:28	19:37:57	19:54:51	20:11:55	11:46:34	10.034	-2.915	96
10/01/2023	Sun*	5:14:02	5:31:07	5:48:02	6:21:35	6:50:22		12:42:31		18:33:55	19:02:38	19:36:06	19:52:59	20:10:01	11:43:34	10.360	-3.303	90
10/02/2023	M*	5:15:17	5:32:21	5:49:14	6:22:46	6:51:33		12:42:11		18:32:06	19:00:50	19:34:16	19:51:07	20:08:07	11:40:33	10.681	-3.690	83
10/03/2023	Tu*	5:16:32	5:33:34	5:50:26	6:23:57	6:52:44		12:41:52		18:30:17	18:59:01	19:32:27	19:49:17	20:06:15	11:37:33	10.997	-4.076	74
10/04/2023	W*	5:17:47	5:34:47	5:51:38	6:25:08	6:53:55		12:41:34		18:28:29	18:57:14	19:30:38	19:47:27	20:04:23	11:34:33	11.306	-4.462	64
10/05/2023	Th*	5:19:02	5:36:00	5:52:50	6:26:18	6:55:07		12:41:16		18:26:41	18:55:27	19:28:51	19:45:38	20:02:32	11:31:34	11.610	-4.847	55
10/06/2023	F*	5:20:17	5:37:13	5:54:02	6:27:30	6:56:19		12:40:58		18:24:53	18:53:40	19:27:04	19:43:50	20:00:43	11:28:34	11.907	-5.230	45
10/07/2023	Sat*	5:21:31	5:38:25	5:55:13	6:28:41	6:57:32		12:40:40		18:23:06	18:51:54	19:25:18	19:42:03	19:58:55	11:25:35	12.197	-5.613	35
10/08/2023	Sun*	5:22:45	5:39:38	5:56:25	6:29:52	6:58:44		12:40:23		18:21:20	18:50:09	19:23:33	19:40:17	19:57:07	11:22:35	12.480	-5.995	27
10/09/2023	M*	5:23:58	5:40:50	5:57:37	6:31:04	6:59:57		12:40:07		18:19:34	18:48:25	19:21:48	19:38:32	19:55:21	11:19:37	12.756	-6.375	19
10/10/2023	Tu*	5:25:12	5:42:03	5:58:48	6:32:16	7:01:11		12:39:51		18:17:49	18:46:41	19:20:05	19:36:48	19:53:36	11:16:38	13.024	-6.754	12
10/11/2023	W*	5:26:25	5:43:15	6:00:00	6:33:27	7:02:24		12:39:35		18:16:04	18:44:59	19:18:23	19:35:05	19:51:52	11:13:40	13.283	-7.131	6
10/12/2023	Th*	5:27:38	5:44:27	6:01:11	6:34:40	7:03:38		12:39:20		18:14:21	18:43:17	19:16:41	19:33:23	19:50:09	11:10:42	13.535	-7.507	3
10/13/2023	F*	5:28:51	5:45:39	6:02:23	6:35:52	7:04:53		12:39:06		18:12:37	18:41:36	19:15:01	19:31:43	19:48:28	11:07:45	13.778	-7.881	0
10/14/2023	Sat*	5:30:04	5:46:51	6:03:35	6:37:04	7:06:07		12:38:52		18:10:55	18:39:56	19:13:22	19:30:03	19:46:47	11:04:48	14.012	-8.254	0
10/15/2023	Sun*	5:31:17	5:48:03	6:04:46	6:38:17	7:07:22		12:38:38		18:09:13	18:38:16	19:11:43	19:28:25	19:45:08	11:01:51	14.237	-8.624	2
10/16/2023	M*	5:32:29	5:49:15	6:05:58	6:39:30	7:08:37		12:38:25		18:07:33	18:36:38	19:10:06	19:26:48	19:43:31	10:58:55	14.452	-8.992	6
10/17/2023	Tu*	5:33:42	5:50:26	6:07:10	6:40:42	7:09:53		12:38:13		18:05:53	18:35:01	19:08:30	19:25:12	19:41:54	10:56:00	14.658	-9.359	12
10/18/2023	W*	5:34:54	5:51:38	6:08:21	6:41:56	7:11:09		12:38:01		18:04:14	18:33:25	19:06:56	19:23:37	19:40:19	10:53:05	14.855	-9.723	19
10/19/2023	Th*	5:36:06	5:52:50	6:09:33	6:43:09	7:12:25		12:37:50		18:02:36	18:31:49	19:05:22	19:22:04	19:38:46	10:50:11	15.041	-10.084	28
10/20/2023	F*	5:37:18	5:54:01	6:10:45	6:44:22	7:13:41		12:37:39		18:00:58	18:30:15	19:03:50	19:20:32	19:37:13	10:47:17	15.217	-10.443	39
10/21/2023	Sat*	5:38:29	5:55:13	6:11:57	6:45:36	7:14:58		12:37:29		17:59:22	18:28:42	19:02:19	19:19:01	19:35:42	10:44:25	15.382	-10.800	50
10/22/2023	Sun*	5:39:41	5:56:24	6:13:08	6:46:50	7:16:15		12:37:20		17:57:47	18:27:10	19:00:49	19:17:31	19:34:13	10:41:33	15.537	-11.154	61
10/23/2023	M*	5:40:52	5:57:35	6:14:20	6:48:03	7:17:32		12:37:11		17:56:13	18:25:40	18:59:20	19:16:03	19:32:45	10:38:41	15.680	-11.505	72
10/24/2023	Tu*	5:42:03	5:58:47	6:15:32	6:49:17	7:18:49		12:37:03		17:54:40	18:24:10	18:57:53	19:14:37	19:31:18	10:35:51	15.813	-11.853	82
10/25/2023	W*	5:43:14	5:59:58	6:16:44	6:50:32	7:20:07		12:36:56		17:53:08	18:22:42	18:56:27	19:13:12	19:29:53	10:33:01	15.934	-12.198	90
10/26/2023	Th*	5:44:25	6:01:09	6:17:55	6:51:46	7:21:25		12:36:50		17:51:38	18:21:15	18:55:03	19:11:48	19:28:30	10:30:13	16.043	-12.540	96
10/27/2023	F*	5:45:36	6:02:20	6:19:07	6:53:00	7:22:43		12:36:44		17:50:08	18:19:49	18:53:40	19:10:26	19:27:08	10:27:25	16.140	-12.878	99
10/28/2023	Sat*	5:46:47	6:03:31	6:20:19	6:54:15	7:24:01		12:36:39		17:48:40	18:18:25	18:52:19	19:09:05	19:25:48	10:24:39	16.225	-13.214	100
10/29/2023	Sun*	5:47:58	6:04:42	6:21:31	6:55:29	7:25:20		12:36:34		17:47:13	18:17:02	18:50:59	19:07:46	19:24:29	10:21:53	16.297	-13.546	98
10/30/2023	M*	5:49:08	6:05:53	6:22:42	6:56:44	7:26:39		12:36:31		17:45:48	18:15:41	18:49:40	19:06:29	19:23:12	10:19:09	16.356	-13.874	94
10/31/2023	Tu*	5:50:19	6:07:04	6:23:54	6:57:59	7:27:58		12:36:28		17:44:23	18:14:21	18:48:24	19:05:13	19:21:57	10:16:25	16.402	-14.199	87

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin	Begin	Begin	Begin	Sunrise	Sun East	Local	Sun West	Sunset	End	End 15-	End Astro-	Length	Noon	sun decli-	9 PM	
		Astro- nomical Twilight	15- deg. Twilight	Nautical Twilight	Civil Twilight			Noon			End Twilight	deg. Twilight	nomical Twilight		Eqn Time (min.)	nation (deg.)	Lunar Illum. (pct.)	
11/01/2023	W*	5:51:29	6:08:15	6:25:06	6:59:14	7:29:17		12:36:26		17:43:01	18:13:02	18:47:09	19:03:59	19:20:43	10:13:43	16.434	-14.520	80
11/02/2023	Th*	5:52:39	6:09:26	6:26:18	7:00:29	7:30:37		12:36:25		17:41:39	18:11:46	18:45:55	19:02:46	19:19:32	10:11:03	16.453	-14.837	71
11/03/2023	F*	5:53:49	6:10:36	6:27:30	7:01:44	7:31:56		12:36:25		17:40:20	18:10:30	18:44:43	19:01:35	19:18:22	10:08:23	16.459	-15.150	62
11/04/2023	Sat*	5:54:59	6:11:47	6:28:41	7:03:00	7:33:16		12:36:25		17:39:01	18:09:17	18:43:33	19:00:26	19:17:13	10:05:45	16.450	-15.459	52
11/05/2023	Sun	4:56:09	5:12:58	5:29:53	6:04:15	6:34:36		11:36:27		16:37:45	17:08:05	17:42:25	17:59:19	18:16:07	10:03:09	16.428	-15.763	43
11/06/2023	M	4:57:18	5:14:08	5:31:05	6:05:30	6:35:56		11:36:29		16:36:30	17:06:54	17:41:18	17:58:14	18:15:02	10:00:34	16.391	-16.064	33
11/07/2023	Tu	4:58:28	5:15:18	5:32:16	6:06:45	6:37:16		11:36:32		16:35:16	17:05:46	17:40:13	17:57:10	18:14:00	9:58:01	16.340	-16.360	25
11/08/2023	W	4:59:37	5:16:29	5:33:28	6:08:01	6:38:36		11:36:36		16:34:05	17:04:39	17:39:10	17:56:08	18:12:59	9:55:29	16.275	-16.652	17
11/09/2023	Th	5:00:46	5:17:39	5:34:39	6:09:16	6:39:56		11:36:41		16:32:55	17:03:34	17:38:09	17:55:08	18:12:00	9:52:59	16.195	-16.938	10
11/10/2023	F	5:01:55	5:18:48	5:35:50	6:10:31	6:41:15		11:36:46		16:31:47	17:02:30	17:37:09	17:54:11	18:11:03	9:50:31	16.102	-17.220	5
11/11/2023	Sat	5:03:04	5:19:58	5:37:01	6:11:46	6:42:35		11:36:53		16:30:40	17:01:29	17:36:12	17:53:15	18:10:08	9:48:05	15.993	-17.498	2
11/12/2023	Sun	5:04:12	5:21:08	5:38:12	6:13:00	6:43:55		11:37:00		16:29:36	17:00:30	17:35:17	17:52:20	18:09:15	9:45:41	15.871	-17.770	0
11/13/2023	M	5:05:20	5:22:17	5:39:23	6:14:15	6:45:14		11:37:08		16:28:33	16:59:32	17:34:23	17:51:28	18:08:24	9:43:19	15.734	-18.037	1
11/14/2023	Tu	5:06:28	5:23:26	5:40:33	6:15:29	6:46:34		11:37:17		16:27:33	16:58:36	17:33:32	17:50:38	18:07:35	9:40:59	15.583	-18.298	4
11/15/2023	W	5:07:35	5:24:34	5:41:43	6:16:43	6:47:53		11:37:27		16:26:34	16:57:43	17:32:42	17:49:50	18:06:48	9:38:41	15.418	-18.555	9
11/16/2023	Th	5:08:42	5:25:42	5:42:53	6:17:57	6:49:11		11:37:38		16:25:38	16:56:51	17:31:54	17:49:04	18:06:03	9:36:26	15.240	-18.806	16
11/17/2023	F	5:09:49	5:26:50	5:44:02	6:19:10	6:50:30		11:37:49		16:24:43	16:56:02	17:31:09	17:48:20	18:05:20	9:34:13	15.047	-19.051	25
11/18/2023	Sat	5:10:55	5:27:58	5:45:11	6:20:23	6:51:47		11:38:02		16:23:50	16:55:14	17:30:25	17:47:38	18:04:40	9:32:03	14.841	-19.291	36
11/19/2023	Sun	5:12:01	5:29:05	5:46:19	6:21:36	6:53:05		11:38:15		16:23:00	16:54:29	17:29:44	17:46:58	18:04:01	9:29:55	14.621	-19.525	47
11/20/2023	M	5:13:07	5:30:11	5:47:27	6:22:48	6:54:22		11:38:29		16:22:12	16:53:45	17:29:05	17:46:21	18:03:24	9:27:50	14.388	-19.753	58
11/21/2023	Tu	5:14:11	5:31:17	5:48:35	6:23:59	6:55:38		11:38:44		16:21:26	16:53:04	17:28:28	17:45:45	18:02:50	9:25:48	14.142	-19.975	69
11/22/2023	W	5:15:16	5:32:22	5:49:41	6:25:10	6:56:53		11:38:59		16:20:42	16:52:25	17:27:53	17:45:11	18:02:18	9:23:48	13.883	-20.191	79
11/23/2023	Th	5:16:19	5:33:27	5:50:48	6:26:20	6:58:08		11:39:16		16:20:00	16:51:48	17:27:20	17:44:40	18:01:47	9:21:52	13.611	-20.400	88
11/24/2023	F	5:17:22	5:34:31	5:51:53	6:27:29	6:59:22		11:39:33		16:19:21	16:51:14	17:26:49	17:44:11	18:01:19	9:19:59	13.327	-20.604	94
11/25/2023	Sat	5:18:24	5:35:35	5:52:58	6:28:38	7:00:36		11:39:50		16:18:44	16:50:41	17:26:21	17:43:44	18:00:53	9:18:08	13.029	-20.801	98
11/26/2023	Sun	5:19:26	5:36:38	5:54:02	6:29:46	7:01:48		11:40:09		16:18:09	16:50:11	17:25:54	17:43:19	18:00:30	9:16:21	12.720	-20.991	100
11/27/2023	M	5:20:27	5:37:40	5:55:06	6:30:53	7:03:00		11:40:28		16:17:37	16:49:43	17:25:30	17:42:56	18:00:08	9:14:37	12.398	-21.175	99
11/28/2023	Tu	5:21:27	5:38:41	5:56:09	6:31:59	7:04:11		11:40:48		16:17:07	16:49:18	17:25:08	17:42:36	17:59:49	9:12:57	12.064	-21.352	96
11/29/2023	W	5:22:27	5:39:42	5:57:10	6:33:05	7:05:20		11:41:09		16:16:40	16:48:55	17:24:49	17:42:17	17:59:32	9:11:20	11.719	-21.523	92
11/30/2023	Th	5:23:25	5:40:41	5:58:11	6:34:09	7:06:29		11:41:31		16:16:15	16:48:34	17:24:31	17:42:01	17:59:17	9:09:46	11.362	-21.687	85
12/01/2023	F	5:24:23	5:41:40	5:59:11	6:35:13	7:07:36		11:41:53		16:15:52	16:48:16	17:24:16	17:41:47	17:59:04	9:08:16	10.993	-21.844	78
12/02/2023	Sat	5:25:20	5:42:38	6:00:11	6:36:15	7:08:42		11:42:15		16:15:32	16:47:59	17:24:03	17:41:36	17:58:53	9:06:50	10.614	-21.994	69
12/03/2023	Sun	5:26:16	5:43:35	6:01:09	6:37:16	7:09:47		11:42:39		16:15:15	16:47:46	17:23:53	17:41:27	17:58:45	9:05:27	10.224	-22.137	60
12/04/2023	M	5:27:11	5:44:31	6:02:06	6:38:16	7:10:51		11:43:03		16:15:00	16:47:34	17:23:45	17:41:19	17:58:39	9:04:09	9.824	-22.273	51
12/05/2023	Tu	5:28:05	5:45:26	6:03:02	6:39:15	7:11:53		11:43:27		16:14:48	16:47:26	17:23:39	17:41:15	17:58:35	9:02:54	9.414	-22.402	41
12/06/2023	W	5:28:58	5:46:20	6:03:57	6:40:13	7:12:54		11:43:53		16:14:38	16:47:19	17:23:35	17:41:12	17:58:33	9:01:44	8.995	-22.523	32
12/07/2023	Th	5:29:50	5:47:12	6:04:50	6:41:09	7:13:54		11:44:18		16:14:31	16:47:15	17:23:34	17:41:11	17:58:33	9:00:37	8.566	-22.637	24
12/08/2023	F	5:30:41	5:48:04	6:05:43	6:42:04	7:14:52		11:44:44		16:14:26	16:47:13	17:23:34	17:41:13	17:58:36	8:59:35	8.130	-22.744	16
12/09/2023	Sat	5:31:30	5:48:54	6:06:34	6:42:57	7:15:48		11:45:11		16:14:24	16:47:14	17:23:38	17:41:17	17:58:41	8:58:36	7.685	-22.843	9
12/10/2023	Sun	5:32:19	5:49:43	6:07:24	6:43:49	7:16:42		11:45:38		16:14:25	16:47:17	17:23:43	17:41:23	17:58:48	8:57:42	7.232	-22.935	4

Journey Museum -103.218689, 44.08657, Time Zone = MST/MDT

Date	DoW	Begin Astro- nomical Twilight	Begin 15- deg. Twilight	Begin Nautical Twilight	Begin Civil Twilight	Sunrise	Sun East	Local Noon	Sun West	Sunset	End Civil Twilight	End Nautical Twilight	End 15- deg. Twilight	End Astro- nomical Twilight	Length of Day	Noon Eqn Time (min.)	Noon sun decli- nation (deg.)	9 PM Lunar Illum. (pct.)
12/11/2023	M	5:33:06	5:50:31	6:08:12	6:44:40	7:17:35		11:46:06		16:14:28	16:47:23	17:23:50	17:41:32	17:58:57	8:56:53	6.773	-23.020	1
12/12/2023	Tu	5:33:51	5:51:17	6:08:59	6:45:29	7:18:26		11:46:34		16:14:34	16:47:31	17:24:00	17:41:42	17:59:08	8:56:08	6.307	-23.096	0
12/13/2023	W	5:34:36	5:52:02	6:09:45	6:46:16	7:19:15		11:47:02		16:14:42	16:47:41	17:24:12	17:41:55	17:59:21	8:55:27	5.835	-23.165	2
12/14/2023	Th	5:35:19	5:52:45	6:10:29	6:47:01	7:20:02		11:47:31		16:14:53	16:47:54	17:24:26	17:42:10	17:59:36	8:54:51	5.359	-23.226	6
12/15/2023	F	5:36:00	5:53:27	6:11:11	6:47:45	7:20:47		11:48:00		16:15:06	16:48:09	17:24:43	17:42:26	17:59:53	8:54:19	4.877	-23.280	13
12/16/2023	Sat	5:36:40	5:54:07	6:11:52	6:48:27	7:21:31		11:48:29		16:15:22	16:48:26	17:25:01	17:42:45	18:00:12	8:53:52	4.392	-23.326	22
12/17/2023	Sun	5:37:19	5:54:46	6:12:31	6:49:06	7:22:12		11:48:58		16:15:41	16:48:46	17:25:22	17:43:06	18:00:34	8:53:29	3.903	-23.364	32
12/18/2023	M	5:37:55	5:55:23	6:13:08	6:49:44	7:22:50		11:49:28		16:16:02	16:49:08	17:25:44	17:43:29	18:00:57	8:53:11	3.412	-23.394	43
12/19/2023	Tu	5:38:30	5:55:58	6:13:43	6:50:21	7:23:27		11:49:57		16:16:25	16:49:32	17:26:09	17:43:54	18:01:22	8:52:58	2.918	-23.417	55
12/20/2023	W	5:39:04	5:56:32	6:14:17	6:50:55	7:24:02		11:50:27		16:16:51	16:49:58	17:26:35	17:44:20	18:01:49	8:52:49	2.423	-23.431	66
12/21/2023	Th	5:39:36	5:57:04	6:14:49	6:51:27	7:24:34		11:50:57		16:17:19	16:50:26	17:27:04	17:44:49	18:02:17	8:52:45	1.927	-23.438	76
12/22/2023	F	5:40:06	5:57:34	6:15:19	6:51:56	7:25:04		11:51:26		16:17:50	16:50:57	17:27:34	17:45:20	18:02:48	8:52:46	1.431	-23.437	84
12/23/2023	Sat	5:40:34	5:58:02	6:15:47	6:52:24	7:25:31		11:51:56		16:18:23	16:51:30	17:28:07	17:45:52	18:03:20	8:52:51	0.934	-23.428	91
12/24/2023	Sun	5:41:00	5:58:28	6:16:13	6:52:50	7:25:56		11:52:26		16:18:58	16:52:04	17:28:41	17:46:26	18:03:54	8:53:02	0.438	-23.411	96
12/25/2023	M	5:41:25	5:58:52	6:16:37	6:53:13	7:26:19		11:52:56		16:19:35	16:52:41	17:29:17	17:47:02	18:04:30	8:53:16	-0.056	-23.386	99
12/26/2023	Tu	5:41:47	5:59:15	6:16:59	6:53:35	7:26:39		11:53:25		16:20:15	16:53:20	17:29:55	17:47:40	18:05:07	8:53:36	-0.550	-23.354	100
12/27/2023	W	5:42:08	5:59:35	6:17:19	6:53:54	7:26:57		11:53:55		16:20:57	16:54:00	17:30:35	17:48:19	18:05:46	8:54:00	-1.041	-23.313	98
12/28/2023	Th	5:42:27	5:59:54	6:17:37	6:54:11	7:27:13		11:54:24		16:21:41	16:54:43	17:31:17	17:49:00	18:06:27	8:54:28	-1.529	-23.265	95
12/29/2023	F	5:42:44	6:00:10	6:17:53	6:54:25	7:27:26		11:54:53		16:22:27	16:55:28	17:32:00	17:49:43	18:07:09	8:55:01	-2.015	-23.209	90
12/30/2023	Sat	5:42:59	6:00:25	6:18:07	6:54:38	7:27:36		11:55:22		16:23:15	16:56:14	17:32:45	17:50:27	18:07:53	8:55:39	-2.497	-23.146	84
12/31/2023	Sun	5:43:12	6:00:37	6:18:19	6:54:48	7:27:44		11:55:51		16:24:05	16:57:02	17:33:31	17:51:13	18:08:38	8:56:21	-2.975	-23.074	77

* Days when daylight time is in effect are marked with an asterisk.

eqn_time3.py ver 161025a gglib version 200422a delta-T data 05/01/2020