

Jan 1	100	46.8	Mar 3	160	54.3	May 3	221	1.8	Jul 3	281	9.2	Sep 2	341	16.7	Nov 2	41	24.2
Jan 2	101	45.9	Mar 4	161	53.4	May 4	222	0.9	Jul 4	282	8.4	Sep 3	342	15.8	Nov 3	42	23.3
Jan 3	102	45.1	Mar 5	162	52.6	May 5	223	0.0	Jul 5	283	7.5	Sep 4	343	15.0	Nov 4	43	22.4
Jan 4	103	44.2	Mar 6	163	51.7	May 6	223	59.2	Jul 6	284	6.6	Sep 5	344	14.1	Nov 5	44	21.6
Jan 5	104	43.4	Mar 7	164	50.8	May 7	224	58.3	Jul 7	285	5.8	Sep 6	345	13.2	Nov 6	45	20.7
Jan 6	105	42.5	Mar 8	165	50.0	May 8	225	57.5	Jul 8	286	4.9	Sep 7	346	12.4	Nov 7	46	19.9
Jan 7	106	41.6	Mar 9	166	49.1	May 9	226	56.6	Jul 9	287	4.1	Sep 8	347	11.5	Nov 8	47	19.0
Jan 8	107	40.8	Mar 10	167	48.2	May 10	227	55.7	Jul 10	288	3.2	Sep 9	348	10.7	Nov 9	48	18.1
Jan 9	108	39.9	Mar 11	168	47.4	May 11	228	54.9	Jul 11	289	2.3	Sep 10	349	9.8	Nov 10	49	17.3
Jan 10	109	39.1	Mar 12	169	46.5	May 12	229	54.0	Jul 12	290	1.5	Sep 11	350	8.9	Nov 11	50	16.4
Jan 11	110	38.2	Mar 13	170	45.7	May 13	230	53.1	Jul 13	291	0.6	Sep 12	351	8.1	Nov 12	51	15.6
Jan 12	111	37.3	Mar 14	171	44.8	May 14	231	52.3	Jul 14	291	59.8	Sep 13	352	7.2	Nov 13	52	14.7
Jan 13	112	36.5	Mar 15	172	43.9	May 15	232	51.4	Jul 15	292	58.9	Sep 14	353	6.4	Nov 14	53	13.8
Jan 14	113	35.6	Mar 16	173	43.1	May 16	233	50.6	Jul 16	293	58.0	Sep 15	354	5.5	Nov 15	54	13.0
Jan 15	114	34.7	Mar 17	174	42.2	May 17	234	49.7	Jul 17	294	57.2	Sep 16	355	4.6	Nov 16	55	12.1
Jan 16	115	33.9	Mar 18	175	41.4	May 18	235	48.8	Jul 18	295	56.3	Sep 17	356	3.8	Nov 17	56	11.2
Jan 17	116	33.0	Mar 19	176	40.5	May 19	236	48.0	Jul 19	296	55.4	Sep 18	357	2.9	Nov 18	57	10.4
Jan 18	117	32.2	Mar 20	177	39.6	May 20	237	47.1	Jul 20	297	54.6	Sep 19	358	2.1	Nov 19	58	9.5
Jan 19	118	31.3	Mar 21	178	38.8	May 21	238	46.3	Jul 21	298	53.7	Sep 20	359	1.2	Nov 20	59	8.7
Jan 20	119	30.4	Mar 22	179	37.9	May 22	239	45.4	Jul 22	299	52.9	Sep 21	0	0.3	Nov 21	60	7.8
Jan 21	120	29.6	Mar 23	180	37.1	May 23	240	44.5	Jul 23	300	52.0	Sep 22	0	59.5	Nov 22	61	6.9
Jan 22	121	28.7	Mar 24	181	36.2	May 24	241	43.7	Jul 24	301	51.1	Sep 23	1	58.6	Nov 23	62	6.1
Jan 23	122	27.9	Mar 25	182	35.3	May 25	242	42.8	Jul 25	302	50.3	Sep 24	2	57.7	Nov 24	63	5.2
Jan 24	123	27.0	Mar 26	183	34.5	May 26	243	42.0	Jul 26	303	49.4	Sep 25	3	56.9	Nov 25	64	4.4
Jan 25	124	26.1	Mar 27	184	33.6	May 27	244	41.1	Jul 27	304	48.6	Sep 26	4	56.0	Nov 26	65	3.5
Jan 26	125	25.3	Mar 28	185	32.8	May 28	245	40.2	Jul 28	305	47.7	Sep 27	5	55.2	Nov 27	66	2.6
Jan 27	126	24.4	Mar 29	186	31.9	May 29	246	39.4	Jul 29	306	46.8	Sep 28	6	54.3	Nov 28	67	1.8
Jan 28	127	23.6	Mar 30	187	31.0	May 30	247	38.5	Jul 30	307	46.0	Sep 29	7	53.4	Nov 29	68	0.9
Jan 29	128	22.7	Mar 31	188	30.2	May 31	248	37.6	Jul 31	308	45.1	Sep 30	8	52.6	Nov 30	69	0.1
Jan 30	129	21.8	Apr 1	189	29.3	Jun 1	249	36.8	Aug 1	309	44.3	Oct 1	9	51.7	Dec 1	69	59.2
Jan 31	130	21.0	Apr 2	190	28.4	Jun 2	250	35.9	Aug 2	310	43.4	Oct 2	10	50.9	Dec 2	70	58.3
Feb 1	131	20.1	Apr 3	191	27.6	Jun 3	251	35.1	Aug 3	311	42.5	Oct 3	11	50.0	Dec 3	71	57.5
Feb 2	132	19.2	Apr 4	192	26.7	Jun 4	252	34.2	Aug 4	312	41.7	Oct 4	12	49.1	Dec 4	72	56.6
Feb 3	133	18.4	Apr 5	193	25.9	Jun 5	253	33.3	Aug 5	313	40.8	Oct 5	13	48.3	Dec 5	73	55.8
Feb 4	134	17.5	Apr 6	194	25.0	Jun 6	254	32.5	Aug 6	314	39.9	Oct 6	14	47.4	Dec 6	74	54.9
Feb 5	135	16.7	Apr 7	195	24.1	Jun 7	255	31.6	Aug 7	315	39.1	Oct 7	15	46.6	Dec 7	75	54.0
Feb 6	136	15.8	Apr 8	196	23.3	Jun 8	256	30.8	Aug 8	316	38.2	Oct 8	16	45.7	Dec 8	76	53.2
Feb 7	137	14.9	Apr 9	197	22.4	Jun 9	257	29.9	Aug 9	317	37.4	Oct 9	17	44.8	Dec 9	77	52.3
Feb 8	138	14.1	Apr 10	198	21.6	Jun 10	258	29.0	Aug 10	318	36.5	Oct 10	18	44.0	Dec 10	78	51.4
Feb 9	139	13.2	Apr 11	199	20.7	Jun 11	259	28.2	Aug 11	319	35.6	Oct 11	19	43.1	Dec 11	79	50.6
Feb 10	140	12.4	Apr 12	200	19.8	Jun 12	260	27.3	Aug 12	320	34.8	Oct 12	20	42.2	Dec 12	80	49.7
Feb 11	141	11.5	Apr 13	201	19.0	Jun 13	261	26.5	Aug 13	321	33.9	Oct 13	21	41.4	Dec 13	81	48.9
Feb 12	142	10.6	Apr 14	202	18.1	Jun 14	262	25.6	Aug 14	322	33.1	Oct 14	22	40.5	Dec 14	82	48.0
Feb 13	143	9.8	Apr 15	203	17.3	Jun 15	263	24.7	Aug 15	323	32.2	Oct 15	23	39.7	Dec 15	83	47.1
Feb 14	144	8.9	Apr 16	204	16.4	Jun 16	264	23.9	Aug 16	324	31.3	Oct 16	24	38.8	Dec 16	84	46.3
Feb 15	145	8.1	Apr 17	205	15.5	Jun 17	265	23.0	Aug 17	325	30.5	Oct 17	25	37.9	Dec 17	85	45.4
Feb 16	146	7.2	Apr 18	206	14.7	Jun 18	266	22.1	Aug 18	326	29.6	Oct 18	26	37.1	Dec 18	86	44.6
Feb 17	147	6.3	Apr 19	207	13.8	Jun 19	267	21.3	Aug 19	327	28.7	Oct 19	27	36.2	Dec 19	87	43.7
Feb 18	148	5.5	Apr 20	208	12.9	Jun 20	268	20.4	Aug 20	328	27.9	Oct 20	28	35.4	Dec 20	88	42.8
Feb 19	149	4.6	Apr 21	209	12.1	Jun 21	269	19.6	Aug 21	329	27.0	Oct 21	29	34.5	Dec 21	89	42.0
Feb 20	150	3.7	Apr 22	210	11.2	Jun 22	270	18.7	Aug 22	330	26.2	Oct 22	30	33.6	Dec 22	90	41.1
Feb 21	151	2.9	Apr 23	211	10.4	Jun 23	271	17.8	Aug 23	331	25.3	Oct 23	31	32.8	Dec 23	91	40.3
Feb 22	152	2.0	Apr 24	212	9.5	Jun 24	272	17.0	Aug 24	332	24.4	Oct 24	32	31.9	Dec 24	92	39.4
Feb 23	153	1.2	Apr 25	213	8.6	Jun 25	273	16.1	Aug 25	333	23.6	Oct 25	33	31.1	Dec 25	93	38.5
Feb 24	154	0.3	Apr 26	214	7.8	Jun 26	274	15.3	Aug 26	334	22.7	Oct 26	34	30.2	Dec 26	94	37.7
Feb 25	154	59.4	Apr 27	215	6.9	Jun 27	275	14.4	Aug 27	335	21.9	Oct 27	35	29.3	Dec 27	95	36.8
Feb 26	155	58.6	Apr 28	216	6.1	Jun 28	276	13.5	Aug 28	336	21.0	Oct 28	36	28.5	Dec 28	96	35.9
Feb 27	156	57.7	Apr 29	217	5.2	Jun 29	277	12.7	Aug 29	337	20.1	Oct 29	37	27.6	Dec 29	97	35.1
Feb 28	157	56.9	Apr 30	218	4.3	Jun 30	278	11.8	Aug 30	338	19.3	Oct 30	38	26.7	Dec 30	98	34.2
Mar 1	158	56.0	May 1	219	3.5	Jul 1	279	10.9	Aug 31	339	18.4	Oct 31	39	25.9	Dec 31	99	33.4
Mar 2	159	55.1	May 2	220	2.6	Jul 2	280	10.1	Sep 1	340	17.6	Nov 1	40	25.0	Jan 1	100	32.5

GHA Aries Increments							
hours UT	°	'	minutes UT	°	'	seconds UT	'
1	15	2.5	1	0	15.0	1	0.3
2	30	4.9	2	0	30.1	2	0.5
3	45	7.4	3	0	45.1	3	0.8
4	60	9.9	4	1	0.2	4	1.0
5	75	12.3	5	1	15.2	5	1.3
6	90	14.8	6	1	30.2	6	1.5
7	105	17.2	7	1	45.3	7	1.8
8	120	19.7	8	2	0.3	8	2.0
9	135	22.2	9	2	15.4	9	2.3
10	150	24.6	10	2	30.4	10	2.5
11	165	27.1	11	2	45.5	11	2.8
12	180	29.6	12	3	0.5	12	3.0
13	195	32.0	13	3	15.5	13	3.3
14	210	34.5	14	3	30.6	14	3.5
15	225	37.0	15	3	45.6	15	3.8
16	240	39.4	16	4	0.7	16	4.0
17	255	41.9	17	4	15.7	17	4.3
18	270	44.4	18	4	30.7	18	4.5
19	285	46.8	19	4	45.8	19	4.8
20	300	49.3	20	5	0.8	20	5.0
21	315	51.7	21	5	15.9	21	5.3
22	330	54.2	22	5	30.9	22	5.5
23	345	56.7	23	5	45.9	23	5.8
24	360	59.1	24	6	1.0	24	6.0
			25	6	16.0	25	6.3
			26	6	31.1	26	6.5
			27	6	46.1	27	6.8
			28	7	1.1	28	7.0
			29	7	16.2	29	7.3
			30	7	31.2	30	7.5
			31	7	46.3	31	7.8
			32	8	1.3	32	8.0
			33	8	16.4	33	8.3
			34	8	31.4	34	8.5
			35	8	46.4	35	8.8
			36	9	1.5	36	9.0
			37	9	16.5	37	9.3
			38	9	31.6	38	9.5
			39	9	46.6	39	9.8
			40	10	1.6	40	10.0
			41	10	16.7	41	10.3
			42	10	31.7	42	10.5
			43	10	46.8	43	10.8
			44	11	1.8	44	11.0
			45	11	16.8	45	11.3
			46	11	31.9	46	11.5
			47	11	46.9	47	11.8
			48	12	2.0	48	12.0
			49	12	17.0	49	12.3
			50	12	32.1	50	12.5
			51	12	47.1	51	12.8
			52	13	2.1	52	13.0
			53	13	17.2	53	13.3
			54	13	32.2	54	13.5
			55	13	47.3	55	13.8
			56	14	2.3	56	14.0
			57	14	17.3	57	14.3
			58	14	32.4	58	14.5
			59	14	47.4	59	14.8
			60	15	2.5	60	15.0