

Jan 1	100	30.6	Mar 3	160	38.0	May 3	220	45.5	Jul 3	280	53.0	Sep 2	341	0.4	Nov 2	41	7.9
Jan 2	101	29.7	Mar 4	161	37.2	May 4	221	44.6	Jul 4	281	52.1	Sep 3	341	59.6	Nov 3	42	7.1
Jan 3	102	28.8	Mar 5	162	36.3	May 5	222	43.8	Jul 5	282	51.3	Sep 4	342	58.7	Nov 4	43	6.2
Jan 4	103	28.0	Mar 6	163	35.4	May 6	223	42.9	Jul 6	283	50.4	Sep 5	343	57.9	Nov 5	44	5.3
Jan 5	104	27.1	Mar 7	164	34.6	May 7	224	42.1	Jul 7	284	49.5	Sep 6	344	57.0	Nov 6	45	4.5
Jan 6	105	26.3	Mar 8	165	33.7	May 8	225	41.2	Jul 8	285	48.7	Sep 7	345	56.1	Nov 7	46	3.6
Jan 7	106	25.4	Mar 9	166	32.9	May 9	226	40.3	Jul 9	286	47.8	Sep 8	346	55.3	Nov 8	47	2.8
Jan 8	107	24.5	Mar 10	167	32.0	May 10	227	39.5	Jul 10	287	47.0	Sep 9	347	54.4	Nov 9	48	1.9
Jan 9	108	23.7	Mar 11	168	31.1	May 11	228	38.6	Jul 11	288	46.1	Sep 10	348	53.6	Nov 10	49	1.0
Jan 10	109	22.8	Mar 12	169	30.3	May 12	229	37.8	Jul 12	289	45.2	Sep 11	349	52.7	Nov 11	50	0.2
Jan 11	110	21.9	Mar 13	170	29.4	May 13	230	36.9	Jul 13	290	44.4	Sep 12	350	51.8	Nov 12	50	59.3
Jan 12	111	21.1	Mar 14	171	28.6	May 14	231	36.0	Jul 14	291	43.5	Sep 13	351	51.0	Nov 13	51	58.4
Jan 13	112	20.2	Mar 15	172	27.7	May 15	232	35.2	Jul 15	292	42.6	Sep 14	352	50.1	Nov 14	52	57.6
Jan 14	113	19.4	Mar 16	173	26.8	May 16	233	34.3	Jul 16	293	41.8	Sep 15	353	49.3	Nov 15	53	56.7
Jan 15	114	18.5	Mar 17	174	26.0	May 17	234	33.5	Jul 17	294	40.9	Sep 16	354	48.4	Nov 16	54	55.9
Jan 16	115	17.6	Mar 18	175	25.1	May 18	235	32.6	Jul 18	295	40.1	Sep 17	355	47.5	Nov 17	55	55.0
Jan 17	116	16.8	Mar 19	176	24.3	May 19	236	31.7	Jul 19	296	39.2	Sep 18	356	46.7	Nov 18	56	54.1
Jan 18	117	15.9	Mar 20	177	23.4	May 20	237	30.9	Jul 20	297	38.3	Sep 19	357	45.8	Nov 19	57	53.3
Jan 19	118	15.1	Mar 21	178	22.5	May 21	238	30.0	Jul 21	298	37.5	Sep 20	358	44.9	Nov 20	58	52.4
Jan 20	119	14.2	Mar 22	179	21.7	May 22	239	29.2	Jul 22	299	36.6	Sep 21	359	44.1	Nov 21	59	51.6
Jan 21	120	13.3	Mar 23	180	20.8	May 23	240	28.3	Jul 23	300	35.8	Sep 22	0	43.2	Nov 22	60	50.7
Jan 22	121	12.5	Mar 24	181	20.0	May 24	241	27.4	Jul 24	301	34.9	Sep 23	1	42.4	Nov 23	61	49.8
Jan 23	122	11.6	Mar 25	182	19.1	May 25	242	26.6	Jul 25	302	34.0	Sep 24	2	41.5	Nov 24	62	49.0
Jan 24	123	10.8	Mar 26	183	18.2	May 26	243	25.7	Jul 26	303	33.2	Sep 25	3	40.6	Nov 25	63	48.1
Jan 25	124	9.9	Mar 27	184	17.4	May 27	244	24.8	Jul 27	304	32.3	Sep 26	4	39.8	Nov 26	64	47.3
Jan 26	125	9.0	Mar 28	185	16.5	May 28	245	24.0	Jul 28	305	31.5	Sep 27	5	38.9	Nov 27	65	46.4
Jan 27	126	8.2	Mar 29	186	15.6	May 29	246	23.1	Jul 29	306	30.6	Sep 28	6	38.1	Nov 28	66	45.5
Jan 28	127	7.3	Mar 30	187	14.8	May 30	247	22.3	Jul 30	307	29.7	Sep 29	7	37.2	Nov 29	67	44.7
Jan 29	128	6.4	Mar 31	188	13.9	May 31	248	21.4	Jul 31	308	28.9	Sep 30	8	36.3	Nov 30	68	43.8
Jan 30	129	5.6	Apr 1	189	13.1	Jun 1	249	20.5	Aug 1	309	28.0	Oct 1	9	35.5	Dec 1	69	42.9
Jan 31	130	4.7	Apr 2	190	12.2	Jun 2	250	19.7	Aug 2	310	27.1	Oct 2	10	34.6	Dec 2	70	42.1
Feb 1	131	3.9	Apr 3	191	11.3	Jun 3	251	18.8	Aug 3	311	26.3	Oct 3	11	33.8	Dec 3	71	41.2
Feb 2	132	3.0	Apr 4	192	10.5	Jun 4	252	18.0	Aug 4	312	25.4	Oct 4	12	32.9	Dec 4	72	40.4
Feb 3	133	2.1	Apr 5	193	9.6	Jun 5	253	17.1	Aug 5	313	24.6	Oct 5	13	32.0	Dec 5	73	39.5
Feb 4	134	1.3	Apr 6	194	8.8	Jun 6	254	16.2	Aug 6	314	23.7	Oct 6	14	31.2	Dec 6	74	38.6
Feb 5	135	0.4	Apr 7	195	7.9	Jun 7	255	15.4	Aug 7	315	22.8	Oct 7	15	30.3	Dec 7	75	37.8
Feb 6	135	59.6	Apr 8	196	7.0	Jun 8	256	14.5	Aug 8	316	22.0	Oct 8	16	29.4	Dec 8	76	36.9
Feb 7	136	58.7	Apr 9	197	6.2	Jun 9	257	13.7	Aug 9	317	21.1	Oct 9	17	28.6	Dec 9	77	36.1
Feb 8	137	57.8	Apr 10	198	5.3	Jun 10	258	12.8	Aug 10	318	20.3	Oct 10	18	27.7	Dec 10	78	35.2
Feb 9	138	57.0	Apr 11	199	4.5	Jun 11	259	11.9	Aug 11	319	19.4	Oct 11	19	26.9	Dec 11	79	34.3
Feb 10	139	56.1	Apr 12	200	3.6	Jun 12	260	11.1	Aug 12	320	18.5	Oct 12	20	26.0	Dec 12	80	33.5
Feb 11	140	55.3	Apr 13	201	2.7	Jun 13	261	10.2	Aug 13	321	17.7	Oct 13	21	25.1	Dec 13	81	32.6
Feb 12	141	54.4	Apr 14	202	1.9	Jun 14	262	9.3	Aug 14	322	16.8	Oct 14	22	24.3	Dec 14	82	31.8
Feb 13	142	53.5	Apr 15	203	1.0	Jun 15	263	8.5	Aug 15	323	15.9	Oct 15	23	23.4	Dec 15	83	30.9
Feb 14	143	52.7	Apr 16	204	0.1	Jun 16	264	7.6	Aug 16	324	15.1	Oct 16	24	22.6	Dec 16	84	30.0
Feb 15	144	51.8	Apr 17	204	59.3	Jun 17	265	6.8	Aug 17	325	14.2	Oct 17	25	21.7	Dec 17	85	29.2
Feb 16	145	50.9	Apr 18	205	58.4	Jun 18	266	5.9	Aug 18	326	13.4	Oct 18	26	20.8	Dec 18	86	28.3
Feb 17	146	50.1	Apr 19	206	57.6	Jun 19	267	5.0	Aug 19	327	12.5	Oct 19	27	20.0	Dec 19	87	27.5
Feb 18	147	49.2	Apr 20	207	56.7	Jun 20	268	4.2	Aug 20	328	11.6	Oct 20	28	19.1	Dec 20	88	26.6
Feb 19	148	48.4	Apr 21	208	55.8	Jun 21	269	3.3	Aug 21	329	10.8	Oct 21	29	18.3	Dec 21	89	25.7
Feb 20	149	47.5	Apr 22	209	55.0	Jun 22	270	2.5	Aug 22	330	9.9	Oct 22	30	17.4	Dec 22	90	24.9
Feb 21	150	46.6	Apr 23	210	54.1	Jun 23	271	1.6	Aug 23	331	9.1	Oct 23	31	16.5	Dec 23	91	24.0
Feb 22	151	45.8	Apr 24	211	53.3	Jun 24	272	0.7	Aug 24	332	8.2	Oct 24	32	15.7	Dec 24	92	23.1
Feb 23	152	44.9	Apr 25	212	52.4	Jun 25	272	59.9	Aug 25	333	7.3	Oct 25	33	14.8	Dec 25	93	22.3
Feb 24	153	44.1	Apr 26	213	51.5	Jun 26	273	59.0	Aug 26	334	6.5	Oct 26	34	13.9	Dec 26	94	21.4
Feb 25	154	43.2	Apr 27	214	50.7	Jun 27	274	58.1	Aug 27	335	5.6	Oct 27	35	13.1	Dec 27	95	20.6
Feb 26	155	42.3	Apr 28	215	49.8	Jun 28	275	57.3	Aug 28	336	4.8	Oct 28	36	12.2	Dec 28	96	19.7
Feb 27	156	41.5	Apr 29	216	49.0	Jun 29	276	56.4	Aug 29	337	3.9	Oct 29	37	11.4	Dec 29	97	18.8
Feb 28	157	40.6	Apr 30	217	48.1	Jun 30	277	55.6	Aug 30	338	3.0	Oct 30	38	10.5	Dec 30	98	18.0
Mar 1	158	39.8	May 1	218	47.2	Jul 1	278	54.7	Aug 31	339	2.2	Oct 31	39	9.6	Dec 31	99	17.1
Mar 2	159	38.9	May 2	219	46.4	Jul 2	279	53.8	Sep 1	340	1.3	Nov 1	40	8.8	Jan 1	100	16.3

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