

Jan 1	100	44.9	Mar 3	160	52.3	May 3	220	59.8	Jul 3	281	7.3	Sep 2	341	14.7	Nov 2	41	22.2
Jan 2	101	44.0	Mar 4	161	51.5	May 4	221	58.9	Jul 4	282	6.4	Sep 3	342	13.9	Nov 3	42	21.4
Jan 3	102	43.1	Mar 5	162	50.6	May 5	222	58.1	Jul 5	283	5.6	Sep 4	343	13.0	Nov 4	43	20.5
Jan 4	103	42.3	Mar 6	163	49.7	May 6	223	57.2	Jul 6	284	4.7	Sep 5	344	12.2	Nov 5	44	19.6
Jan 5	104	41.4	Mar 7	164	48.9	May 7	224	56.4	Jul 7	285	3.8	Sep 6	345	11.3	Nov 6	45	18.8
Jan 6	105	40.5	Mar 8	165	48.0	May 8	225	55.5	Jul 8	286	3.0	Sep 7	346	10.4	Nov 7	46	17.9
Jan 7	106	39.7	Mar 9	166	47.2	May 9	226	54.6	Jul 9	287	2.1	Sep 8	347	9.6	Nov 8	47	17.1
Jan 8	107	38.8	Mar 10	167	46.3	May 10	227	53.8	Jul 10	288	1.3	Sep 9	348	8.7	Nov 9	48	16.2
Jan 9	108	38.0	Mar 11	168	45.4	May 11	228	52.9	Jul 11	289	0.4	Sep 10	349	7.9	Nov 10	49	15.3
Jan 10	109	37.1	Mar 12	169	44.6	May 12	229	52.1	Jul 12	289	59.5	Sep 11	350	7.0	Nov 11	50	14.5
Jan 11	110	36.2	Mar 13	170	43.7	May 13	230	51.2	Jul 13	290	58.7	Sep 12	351	6.1	Nov 12	51	13.6
Jan 12	111	35.4	Mar 14	171	42.9	May 14	231	50.3	Jul 14	291	57.8	Sep 13	352	5.3	Nov 13	52	12.7
Jan 13	112	34.5	Mar 15	172	42.0	May 15	232	49.5	Jul 15	292	56.9	Sep 14	353	4.4	Nov 14	53	11.9
Jan 14	113	33.7	Mar 16	173	41.1	May 16	233	48.6	Jul 16	293	56.1	Sep 15	354	3.5	Nov 15	54	11.0
Jan 15	114	32.8	Mar 17	174	40.3	May 17	234	47.8	Jul 17	294	55.2	Sep 16	355	2.7	Nov 16	55	10.2
Jan 16	115	31.9	Mar 18	175	39.4	May 18	235	46.9	Jul 18	295	54.4	Sep 17	356	1.8	Nov 17	56	9.3
Jan 17	116	31.1	Mar 19	176	38.6	May 19	236	46.0	Jul 19	296	53.5	Sep 18	357	1.0	Nov 18	57	8.4
Jan 18	117	30.2	Mar 20	177	37.7	May 20	237	45.2	Jul 20	297	52.6	Sep 19	358	0.1	Nov 19	58	7.6
Jan 19	118	29.4	Mar 21	178	36.8	May 21	238	44.3	Jul 21	298	51.8	Sep 20	358	59.2	Nov 20	59	6.7
Jan 20	119	28.5	Mar 22	179	36.0	May 22	239	43.4	Jul 22	299	50.9	Sep 21	359	58.4	Nov 21	60	5.9
Jan 21	120	27.6	Mar 23	180	35.1	May 23	240	42.6	Jul 23	300	50.1	Sep 22	0	57.5	Nov 22	61	5.0
Jan 22	121	26.8	Mar 24	181	34.2	May 24	241	41.7	Jul 24	301	49.2	Sep 23	1	56.7	Nov 23	62	4.1
Jan 23	122	25.9	Mar 25	182	33.4	May 25	242	40.9	Jul 25	302	48.3	Sep 24	2	55.8	Nov 24	63	3.3
Jan 24	123	25.0	Mar 26	183	32.5	May 26	243	40.0	Jul 26	303	47.5	Sep 25	3	54.9	Nov 25	64	2.4
Jan 25	124	24.2	Mar 27	184	31.7	May 27	244	39.1	Jul 27	304	46.6	Sep 26	4	54.1	Nov 26	65	1.6
Jan 26	125	23.3	Mar 28	185	30.8	May 28	245	38.3	Jul 28	305	45.7	Sep 27	5	53.2	Nov 27	66	0.7
Jan 27	126	22.5	Mar 29	186	29.9	May 29	246	37.4	Jul 29	306	44.9	Sep 28	6	52.4	Nov 28	66	59.8
Jan 28	127	21.6	Mar 30	187	29.1	May 30	247	36.6	Jul 30	307	44.0	Sep 29	7	51.5	Nov 29	67	59.0
Jan 29	128	20.7	Mar 31	188	28.2	May 31	248	35.7	Jul 31	308	43.2	Sep 30	8	50.6	Nov 30	68	58.1
Jan 30	129	19.9	Apr 1	189	27.4	Jun 1	249	34.8	Aug 1	309	42.3	Oct 1	9	49.8	Dec 1	69	57.2
Jan 31	130	19.0	Apr 2	190	26.5	Jun 2	250	34.0	Aug 2	310	41.4	Oct 2	10	48.9	Dec 2	70	56.4
Feb 1	131	18.2	Apr 3	191	25.6	Jun 3	251	33.1	Aug 3	311	40.6	Oct 3	11	48.0	Dec 3	71	55.5
Feb 2	132	17.3	Apr 4	192	24.8	Jun 4	252	32.3	Aug 4	312	39.7	Oct 4	12	47.2	Dec 4	72	54.7
Feb 3	133	16.4	Apr 5	193	23.9	Jun 5	253	31.4	Aug 5	313	38.9	Oct 5	13	46.3	Dec 5	73	53.8
Feb 4	134	15.6	Apr 6	194	23.1	Jun 6	254	30.5	Aug 6	314	38.0	Oct 6	14	45.5	Dec 6	74	52.9
Feb 5	135	14.7	Apr 7	195	22.2	Jun 7	255	29.7	Aug 7	315	37.1	Oct 7	15	44.6	Dec 7	75	52.1
Feb 6	136	13.9	Apr 8	196	21.3	Jun 8	256	28.8	Aug 8	316	36.3	Oct 8	16	43.7	Dec 8	76	51.2
Feb 7	137	13.0	Apr 9	197	20.5	Jun 9	257	27.9	Aug 9	317	35.4	Oct 9	17	42.9	Dec 9	77	50.4
Feb 8	138	12.1	Apr 10	198	19.6	Jun 10	258	27.1	Aug 10	318	34.6	Oct 10	18	42.0	Dec 10	78	49.5
Feb 9	139	11.3	Apr 11	199	18.8	Jun 11	259	26.2	Aug 11	319	33.7	Oct 11	19	41.2	Dec 11	79	48.6
Feb 10	140	10.4	Apr 12	200	17.9	Jun 12	260	25.4	Aug 12	320	32.8	Oct 12	20	40.3	Dec 12	80	47.8
Feb 11	141	9.6	Apr 13	201	17.0	Jun 13	261	24.5	Aug 13	321	32.0	Oct 13	21	39.4	Dec 13	81	46.9
Feb 12	142	8.7	Apr 14	202	16.2	Jun 14	262	23.6	Aug 14	322	31.1	Oct 14	22	38.6	Dec 14	82	46.1
Feb 13	143	7.8	Apr 15	203	15.3	Jun 15	263	22.8	Aug 15	323	30.2	Oct 15	23	37.7	Dec 15	83	45.2
Feb 14	144	7.0	Apr 16	204	14.4	Jun 16	264	21.9	Aug 16	324	29.4	Oct 16	24	36.9	Dec 16	84	44.3
Feb 15	145	6.1	Apr 17	205	13.6	Jun 17	265	21.1	Aug 17	325	28.5	Oct 17	25	36.0	Dec 17	85	43.5
Feb 16	146	5.2	Apr 18	206	12.7	Jun 18	266	20.2	Aug 18	326	27.7	Oct 18	26	35.1	Dec 18	86	42.6
Feb 17	147	4.4	Apr 19	207	11.9	Jun 19	267	19.3	Aug 19	327	26.8	Oct 19	27	34.3	Dec 19	87	41.7
Feb 18	148	3.5	Apr 20	208	11.0	Jun 20	268	18.5	Aug 20	328	25.9	Oct 20	28	33.4	Dec 20	88	40.9
Feb 19	149	2.7	Apr 21	209	10.1	Jun 21	269	17.6	Aug 21	329	25.1	Oct 21	29	32.5	Dec 21	89	40.0
Feb 20	150	1.8	Apr 22	210	9.3	Jun 22	270	16.8	Aug 22	330	24.2	Oct 22	30	31.7	Dec 22	90	39.2
Feb 21	151	0.9	Apr 23	211	8.4	Jun 23	271	15.9	Aug 23	331	23.4	Oct 23	31	30.8	Dec 23	91	38.3
Feb 22	152	0.1	Apr 24	212	7.6	Jun 24	272	15.0	Aug 24	332	22.5	Oct 24	32	30.0	Dec 24	92	37.4
Feb 23	152	59.2	Apr 25	213	6.7	Jun 25	273	14.2	Aug 25	333	21.6	Oct 25	33	29.1	Dec 25	93	36.6
Feb 24	153	58.4	Apr 26	214	5.8	Jun 26	274	13.3	Aug 26	334	20.8	Oct 26	34	28.2	Dec 26	94	35.7
Feb 25	154	57.5	Apr 27	215	5.0	Jun 27	275	12.4	Aug 27	335	19.9	Oct 27	35	27.4	Dec 27	95	34.9
Feb 26	155	56.6	Apr 28	216	4.1	Jun 28	276	11.6	Aug 28	336	19.0	Oct 28	36	26.5	Dec 28	96	34.0
Feb 27	156	55.8	Apr 29	217	3.3	Jun 29	277	10.7	Aug 29	337	18.2	Oct 29	37	25.7	Dec 29	97	33.1
Feb 28	157	54.9	Apr 30	218	2.4	Jun 30	278	9.9	Aug 30	338	17.3	Oct 30	38	24.8	Dec 30	98	32.3
Mar 1	158	54.1	May 1	219	1.5	Jul 1	279	9.0	Aug 31	339	16.5	Oct 31	39	23.9	Dec 31	99	31.4
Mar 2	159	53.2	May 2	220	0.7	Jul 2	280	8.1	Sep 1	340	15.6	Nov 1	40	23.1	Jan 1	100	30.6

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