

Jan 1	100	32.5	Mar 3	160	40.0	May 3	220	47.5	Jul 3	280	54.9	Sep 2	341	2.4	Nov 2	41	9.9
Jan 2	101	31.6	Mar 4	161	39.1	May 4	221	46.6	Jul 4	281	54.1	Sep 3	342	1.5	Nov 3	42	9.0
Jan 3	102	30.8	Mar 5	162	38.3	May 5	222	45.7	Jul 5	282	53.2	Sep 4	343	0.7	Nov 4	43	8.1
Jan 4	103	29.9	Mar 6	163	37.4	May 6	223	44.9	Jul 6	283	52.3	Sep 5	343	59.8	Nov 5	44	7.3
Jan 5	104	29.1	Mar 7	164	36.5	May 7	224	44.0	Jul 7	284	51.5	Sep 6	344	58.9	Nov 6	45	6.4
Jan 6	105	28.2	Mar 8	165	35.7	May 8	225	43.2	Jul 8	285	50.6	Sep 7	345	58.1	Nov 7	46	5.6
Jan 7	106	27.3	Mar 9	166	34.8	May 9	226	42.3	Jul 9	286	49.8	Sep 8	346	57.2	Nov 8	47	4.7
Jan 8	107	26.5	Mar 10	167	34.0	May 10	227	41.4	Jul 10	287	48.9	Sep 9	347	56.4	Nov 9	48	3.8
Jan 9	108	25.6	Mar 11	168	33.1	May 11	228	40.6	Jul 11	288	48.0	Sep 10	348	55.5	Nov 10	49	3.0
Jan 10	109	24.8	Mar 12	169	32.2	May 12	229	39.7	Jul 12	289	47.2	Sep 11	349	54.6	Nov 11	50	2.1
Jan 11	110	23.9	Mar 13	170	31.4	May 13	230	38.8	Jul 13	290	46.3	Sep 12	350	53.8	Nov 12	51	1.3
Jan 12	111	23.0	Mar 14	171	30.5	May 14	231	38.0	Jul 14	291	45.5	Sep 13	351	52.9	Nov 13	52	0.4
Jan 13	112	22.2	Mar 15	172	29.6	May 15	232	37.1	Jul 15	292	44.6	Sep 14	352	52.1	Nov 14	52	59.5
Jan 14	113	21.3	Mar 16	173	28.8	May 16	233	36.3	Jul 16	293	43.7	Sep 15	353	51.2	Nov 15	53	58.7
Jan 15	114	20.4	Mar 17	174	27.9	May 17	234	35.4	Jul 17	294	42.9	Sep 16	354	50.3	Nov 16	54	57.8
Jan 16	115	19.6	Mar 18	175	27.1	May 18	235	34.5	Jul 18	295	42.0	Sep 17	355	49.5	Nov 17	55	57.0
Jan 17	116	18.7	Mar 19	176	26.2	May 19	236	33.7	Jul 19	296	41.1	Sep 18	356	48.6	Nov 18	56	56.1
Jan 18	117	17.9	Mar 20	177	25.3	May 20	237	32.8	Jul 20	297	40.3	Sep 19	357	47.8	Nov 19	57	55.2
Jan 19	118	17.0	Mar 21	178	24.5	May 21	238	32.0	Jul 21	298	39.4	Sep 20	358	46.9	Nov 20	58	54.4
Jan 20	119	16.1	Mar 22	179	23.6	May 22	239	31.1	Jul 22	299	38.6	Sep 21	359	46.0	Nov 21	59	53.5
Jan 21	120	15.3	Mar 23	180	22.8	May 23	240	30.2	Jul 23	300	37.7	Sep 22	0	45.2	Nov 22	60	52.6
Jan 22	121	14.4	Mar 24	181	21.9	May 24	241	29.4	Jul 24	301	36.8	Sep 23	1	44.3	Nov 23	61	51.8
Jan 23	122	13.6	Mar 25	182	21.0	May 25	242	28.5	Jul 25	302	36.0	Sep 24	2	43.4	Nov 24	62	50.9
Jan 24	123	12.7	Mar 26	183	20.2	May 26	243	27.7	Jul 26	303	35.1	Sep 25	3	42.6	Nov 25	63	50.1
Jan 25	124	11.8	Mar 27	184	19.3	May 27	244	26.8	Jul 27	304	34.3	Sep 26	4	41.7	Nov 26	64	49.2
Jan 26	125	11.0	Mar 28	185	18.5	May 28	245	25.9	Jul 28	305	33.4	Sep 27	5	40.9	Nov 27	65	48.3
Jan 27	126	10.1	Mar 29	186	17.6	May 29	246	25.1	Jul 29	306	32.5	Sep 28	6	40.0	Nov 28	66	47.5
Jan 28	127	9.3	Mar 30	187	16.7	May 30	247	24.2	Jul 30	307	31.7	Sep 29	7	39.1	Nov 29	67	46.6
Jan 29	128	8.4	Mar 31	188	15.9	May 31	248	23.3	Jul 31	308	30.8	Sep 30	8	38.3	Nov 30	68	45.8
Jan 30	129	7.5	Apr 1	189	15.0	Jun 1	249	22.5	Aug 1	309	30.0	Oct 1	9	37.4	Dec 1	69	44.9
Jan 31	130	6.7	Apr 2	190	14.1	Jun 2	250	21.6	Aug 2	310	29.1	Oct 2	10	36.6	Dec 2	70	44.0
Feb 1	131	5.8	Apr 3	191	13.3	Jun 3	251	20.8	Aug 3	311	28.2	Oct 3	11	35.7	Dec 3	71	43.2
Feb 2	132	4.9	Apr 4	192	12.4	Jun 4	252	19.9	Aug 4	312	27.4	Oct 4	12	34.8	Dec 4	72	42.3
Feb 3	133	4.1	Apr 5	193	11.6	Jun 5	253	19.0	Aug 5	313	26.5	Oct 5	13	34.0	Dec 5	73	41.5
Feb 4	134	3.2	Apr 6	194	10.7	Jun 6	254	18.2	Aug 6	314	25.6	Oct 6	14	33.1	Dec 6	74	40.6
Feb 5	135	2.4	Apr 7	195	9.8	Jun 7	255	17.3	Aug 7	315	24.8	Oct 7	15	32.3	Dec 7	75	39.7
Feb 6	136	1.5	Apr 8	196	9.0	Jun 8	256	16.5	Aug 8	316	23.9	Oct 8	16	31.4	Dec 8	76	38.9
Feb 7	137	0.6	Apr 9	197	8.1	Jun 9	257	15.6	Aug 9	317	23.1	Oct 9	17	30.5	Dec 9	77	38.0
Feb 8	137	59.8	Apr 10	198	7.3	Jun 10	258	14.7	Aug 10	318	22.2	Oct 10	18	29.7	Dec 10	78	37.1
Feb 9	138	58.9	Apr 11	199	6.4	Jun 11	259	13.9	Aug 11	319	21.3	Oct 11	19	28.8	Dec 11	79	36.3
Feb 10	139	58.1	Apr 12	200	5.5	Jun 12	260	13.0	Aug 12	320	20.5	Oct 12	20	27.9	Dec 12	80	35.4
Feb 11	140	57.2	Apr 13	201	4.7	Jun 13	261	12.2	Aug 13	321	19.6	Oct 13	21	27.1	Dec 13	81	34.6
Feb 12	141	56.3	Apr 14	202	3.8	Jun 14	262	11.3	Aug 14	322	18.8	Oct 14	22	26.2	Dec 14	82	33.7
Feb 13	142	55.5	Apr 15	203	3.0	Jun 15	263	10.4	Aug 15	323	17.9	Oct 15	23	25.4	Dec 15	83	32.8
Feb 14	143	54.6	Apr 16	204	2.1	Jun 16	264	9.6	Aug 16	324	17.0	Oct 16	24	24.5	Dec 16	84	32.0
Feb 15	144	53.8	Apr 17	205	1.2	Jun 17	265	8.7	Aug 17	325	16.2	Oct 17	25	23.6	Dec 17	85	31.1
Feb 16	145	52.9	Apr 18	206	0.4	Jun 18	266	7.8	Aug 18	326	15.3	Oct 18	26	22.8	Dec 18	86	30.3
Feb 17	146	52.0	Apr 19	206	59.5	Jun 19	267	7.0	Aug 19	327	14.4	Oct 19	27	21.9	Dec 19	87	29.4
Feb 18	147	51.2	Apr 20	207	58.7	Jun 20	268	6.1	Aug 20	328	13.6	Oct 20	28	21.1	Dec 20	88	28.5
Feb 19	148	50.3	Apr 21	208	57.8	Jun 21	269	5.3	Aug 21	329	12.7	Oct 21	29	20.2	Dec 21	89	27.7
Feb 20	149	49.5	Apr 22	209	56.9	Jun 22	270	4.4	Aug 22	330	11.9	Oct 22	30	19.3	Dec 22	90	26.8
Feb 21	150	48.6	Apr 23	210	56.1	Jun 23	271	3.5	Aug 23	331	11.0	Oct 23	31	18.5	Dec 23	91	26.0
Feb 22	151	47.7	Apr 24	211	55.2	Jun 24	272	2.7	Aug 24	332	10.1	Oct 24	32	17.6	Dec 24	92	25.1
Feb 23	152	46.9	Apr 25	212	54.3	Jun 25	273	1.8	Aug 25	333	9.3	Oct 25	33	16.8	Dec 25	93	24.2
Feb 24	153	46.0	Apr 26	213	53.5	Jun 26	274	1.0	Aug 26	334	8.4	Oct 26	34	15.9	Dec 26	94	23.4
Feb 25	154	45.1	Apr 27	214	52.6	Jun 27	275	0.1	Aug 27	335	7.6	Oct 27	35	15.0	Dec 27	95	22.5
Feb 26	155	44.3	Apr 28	215	51.8	Jun 28	275	59.2	Aug 28	336	6.7	Oct 28	36	14.2	Dec 28	96	21.6
Feb 27	156	43.4	Apr 29	216	50.9	Jun 29	276	58.4	Aug 29	337	5.8	Oct 29	37	13.3	Dec 29	97	20.8
Feb 28	157	42.6	Apr 30	217	50.0	Jun 30	277	57.5	Aug 30	338	5.0	Oct 30	38	12.4	Dec 30	98	19.9
Mar 1	158	41.7	May 1	218	49.2	Jul 1	278	56.7	Aug 31	339	4.1	Oct 31	39	11.6	Dec 31	99	19.1
Mar 2	159	40.8	May 2	219	48.3	Jul 2	279	55.8	Sep 1	340	3.3	Nov 1	40	10.7	Jan 1	100	18.2

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