

Jan 1	100	18.2	Mar 3	160	25.7	May 3	220	33.2	Jul 3	280	40.6	Sep 2	340	48.1	Nov 2	40	55.6
Jan 2	101	17.3	Mar 4	161	24.8	May 4	221	32.3	Jul 4	281	39.8	Sep 3	341	47.2	Nov 3	41	54.7
Jan 3	102	16.5	Mar 5	162	24.0	May 5	222	31.4	Jul 5	282	38.9	Sep 4	342	46.4	Nov 4	42	53.8
Jan 4	103	15.6	Mar 6	163	23.1	May 6	223	30.6	Jul 6	283	38.0	Sep 5	343	45.5	Nov 5	43	53.0
Jan 5	104	14.8	Mar 7	164	22.2	May 7	224	29.7	Jul 7	284	37.2	Sep 6	344	44.6	Nov 6	44	52.1
Jan 6	105	13.9	Mar 8	165	21.4	May 8	225	28.9	Jul 8	285	36.3	Sep 7	345	43.8	Nov 7	45	51.3
Jan 7	106	13.0	Mar 9	166	20.5	May 9	226	28.0	Jul 9	286	35.5	Sep 8	346	42.9	Nov 8	46	50.4
Jan 8	107	12.2	Mar 10	167	19.7	May 10	227	27.1	Jul 10	287	34.6	Sep 9	347	42.1	Nov 9	47	49.5
Jan 9	108	11.3	Mar 11	168	18.8	May 11	228	26.3	Jul 11	288	33.7	Sep 10	348	41.2	Nov 10	48	48.7
Jan 10	109	10.5	Mar 12	169	17.9	May 12	229	25.4	Jul 12	289	32.9	Sep 11	349	40.3	Nov 11	49	47.8
Jan 11	110	9.6	Mar 13	170	17.1	May 13	230	24.5	Jul 13	290	32.0	Sep 12	350	39.5	Nov 12	50	47.0
Jan 12	111	8.7	Mar 14	171	16.2	May 14	231	23.7	Jul 14	291	31.2	Sep 13	351	38.6	Nov 13	51	46.1
Jan 13	112	7.9	Mar 15	172	15.3	May 15	232	22.8	Jul 15	292	30.3	Sep 14	352	37.8	Nov 14	52	45.2
Jan 14	113	7.0	Mar 16	173	14.5	May 16	233	22.0	Jul 16	293	29.4	Sep 15	353	36.9	Nov 15	53	44.4
Jan 15	114	6.2	Mar 17	174	13.6	May 17	234	21.1	Jul 17	294	28.6	Sep 16	354	36.0	Nov 16	54	43.5
Jan 16	115	5.3	Mar 18	175	12.8	May 18	235	20.2	Jul 18	295	27.7	Sep 17	355	35.2	Nov 17	55	42.7
Jan 17	116	4.4	Mar 19	176	11.9	May 19	236	19.4	Jul 19	296	26.9	Sep 18	356	34.3	Nov 18	56	41.8
Jan 18	117	3.6	Mar 20	177	11.0	May 20	237	18.5	Jul 20	297	26.0	Sep 19	357	33.5	Nov 19	57	40.9
Jan 19	118	2.7	Mar 21	178	10.2	May 21	238	17.7	Jul 21	298	25.1	Sep 20	358	32.6	Nov 20	58	40.1
Jan 20	119	1.8	Mar 22	179	9.3	May 22	239	16.8	Jul 22	299	24.3	Sep 21	359	31.7	Nov 21	59	39.2
Jan 21	120	1.0	Mar 23	180	8.5	May 23	240	15.9	Jul 23	300	23.4	Sep 22	0	30.9	Nov 22	60	38.3
Jan 22	121	0.1	Mar 24	181	7.6	May 24	241	15.1	Jul 24	301	22.5	Sep 23	1	30.0	Nov 23	61	37.5
Jan 23	121	59.3	Mar 25	182	6.7	May 25	242	14.2	Jul 25	302	21.7	Sep 24	2	29.1	Nov 24	62	36.6
Jan 24	122	58.4	Mar 26	183	5.9	May 26	243	13.4	Jul 26	303	20.8	Sep 25	3	28.3	Nov 25	63	35.8
Jan 25	123	57.5	Mar 27	184	5.0	May 27	244	12.5	Jul 27	304	20.0	Sep 26	4	27.4	Nov 26	64	34.9
Jan 26	124	56.7	Mar 28	185	4.2	May 28	245	11.6	Jul 28	305	19.1	Sep 27	5	26.6	Nov 27	65	34.0
Jan 27	125	55.8	Mar 29	186	3.3	May 29	246	10.8	Jul 29	306	18.2	Sep 28	6	25.7	Nov 28	66	33.2
Jan 28	126	55.0	Mar 30	187	2.4	May 30	247	9.9	Jul 30	307	17.4	Sep 29	7	24.8	Nov 29	67	32.3
Jan 29	127	54.1	Mar 31	188	1.6	May 31	248	9.1	Jul 31	308	16.5	Sep 30	8	24.0	Nov 30	68	31.5
Jan 30	128	53.2	Apr 1	189	0.7	Jun 1	249	8.2	Aug 1	309	15.7	Oct 1	9	23.1	Dec 1	69	30.6
Jan 31	129	52.4	Apr 2	189	59.9	Jun 2	250	7.3	Aug 2	310	14.8	Oct 2	10	22.3	Dec 2	70	29.7
Feb 1	130	51.5	Apr 3	190	59.0	Jun 3	251	6.5	Aug 3	311	13.9	Oct 3	11	21.4	Dec 3	71	28.9
Feb 2	131	50.7	Apr 4	191	58.1	Jun 4	252	5.6	Aug 4	312	13.1	Oct 4	12	20.5	Dec 4	72	28.0
Feb 3	132	49.8	Apr 5	192	57.3	Jun 5	253	4.7	Aug 5	313	12.2	Oct 5	13	19.7	Dec 5	73	27.2
Feb 4	133	48.9	Apr 6	193	56.4	Jun 6	254	3.9	Aug 6	314	11.3	Oct 6	14	18.8	Dec 6	74	26.3
Feb 5	134	48.1	Apr 7	194	55.5	Jun 7	255	3.0	Aug 7	315	10.5	Oct 7	15	18.0	Dec 7	75	25.4
Feb 6	135	47.2	Apr 8	195	54.7	Jun 8	256	2.2	Aug 8	316	9.6	Oct 8	16	17.1	Dec 8	76	24.6
Feb 7	136	46.3	Apr 9	196	53.8	Jun 9	257	1.3	Aug 9	317	8.8	Oct 9	17	16.2	Dec 9	77	23.7
Feb 8	137	45.5	Apr 10	197	53.0	Jun 10	258	0.4	Aug 10	318	7.9	Oct 10	18	15.4	Dec 10	78	22.8
Feb 9	138	44.6	Apr 11	198	52.1	Jun 11	258	59.6	Aug 11	319	7.0	Oct 11	19	14.5	Dec 11	79	22.0
Feb 10	139	43.8	Apr 12	199	51.2	Jun 12	259	58.7	Aug 12	320	6.2	Oct 12	20	13.6	Dec 12	80	21.1
Feb 11	140	42.9	Apr 13	200	50.4	Jun 13	260	57.9	Aug 13	321	5.3	Oct 13	21	12.8	Dec 13	81	20.3
Feb 12	141	42.0	Apr 14	201	49.5	Jun 14	261	57.0	Aug 14	322	4.5	Oct 14	22	11.9	Dec 14	82	19.4
Feb 13	142	41.2	Apr 15	202	48.7	Jun 15	262	56.1	Aug 15	323	3.6	Oct 15	23	11.1	Dec 15	83	18.5
Feb 14	143	40.3	Apr 16	203	47.8	Jun 16	263	55.3	Aug 16	324	2.7	Oct 16	24	10.2	Dec 16	84	17.7
Feb 15	144	39.5	Apr 17	204	46.9	Jun 17	264	54.4	Aug 17	325	1.9	Oct 17	25	9.3	Dec 17	85	16.8
Feb 16	145	38.6	Apr 18	205	46.1	Jun 18	265	53.5	Aug 18	326	1.0	Oct 18	26	8.5	Dec 18	86	16.0
Feb 17	146	37.7	Apr 19	206	45.2	Jun 19	266	52.7	Aug 19	327	0.2	Oct 19	27	7.6	Dec 19	87	15.1
Feb 18	147	36.9	Apr 20	207	44.4	Jun 20	267	51.8	Aug 20	327	59.3	Oct 20	28	6.8	Dec 20	88	14.2
Feb 19	148	36.0	Apr 21	208	43.5	Jun 21	268	51.0	Aug 21	328	58.4	Oct 21	29	5.9	Dec 21	89	13.4
Feb 20	149	35.2	Apr 22	209	42.6	Jun 22	269	50.1	Aug 22	329	57.6	Oct 22	30	5.0	Dec 22	90	12.5
Feb 21	150	34.3	Apr 23	210	41.8	Jun 23	270	49.2	Aug 23	330	56.7	Oct 23	31	4.2	Dec 23	91	11.7
Feb 22	151	33.4	Apr 24	211	40.9	Jun 24	271	48.4	Aug 24	331	55.8	Oct 24	32	3.3	Dec 24	92	10.8
Feb 23	152	32.6	Apr 25	212	40.0	Jun 25	272	47.5	Aug 25	332	55.0	Oct 25	33	2.5	Dec 25	93	9.9
Feb 24	153	31.7	Apr 26	213	39.2	Jun 26	273	46.7	Aug 26	333	54.1	Oct 26	34	1.6	Dec 26	94	9.1
Feb 25	154	30.8	Apr 27	214	38.3	Jun 27	274	45.8	Aug 27	334	53.3	Oct 27	35	0.7	Dec 27	95	8.2
Feb 26	155	30.0	Apr 28	215	37.5	Jun 28	275	44.9	Aug 28	335	52.4	Oct 28	35	59.9	Dec 28	96	7.4
Feb 27	156	29.1	Apr 29	216	36.6	Jun 29	276	44.1	Aug 29	336	51.5	Oct 29	36	59.0	Dec 29	97	6.5
Feb 28	157	28.3	Apr 30	217	35.7	Jun 30	277	43.2	Aug 30	337	50.7	Oct 30	37	58.2	Dec 30	98	5.6
Mar 1	158	27.4	May 1	218	34.9	Jul 1	278	42.4	Aug 31	338	49.8	Oct 31	38	57.3	Dec 31	99	4.8
Mar 2	159	26.5	May 2	219	34.0	Jul 2	279	41.5	Sep 1	339	49.0	Nov 1	39	56.4	Jan 1	100	3.9

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