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Nautical Almanac (Selected Stars)

2025

Star Maps

The Nautical Almanac 2025 (Selected Stars)

Polaris Tables 2025

Revision V0.6 - Nov 2018

Warning and Terms of Usage:

The following pages have been generated by a computer program. Complex computer programs usually have bugs and may produce wrong data. The data in this Nautical Almanac is believed to be accurate but no warranty is given for its correctness.

Use this Nautical Almanac only for training and exercising!

Compiled by Erik De Man (mail2erik@siranah.de) on Tue Oct 1 12:26:03 2024

Introduction

This Nautical Almanac contains the Ephemerides of the "First Point of Aries" and sixty selected stars. It is designed for determination of Position (geographical Latitude and Longitude) from astronomical observations (Altitude of Celestial Objects).

The data compiled in this Nautical Almanac is based on calculations done with the software package "NOVAS" from the U.S. Naval Observatory (<http://aa.usno.navy.mil/AA/software>). The fundamental star data was originally obtained from the "Bright Star Catalogue" (5th revised edition of 1991). However, this data has recently been updated from other star catalogues. The complete star data as used in this Almanac is shown on the next page.

Values for "deltaT"

For the astrodynamical calculations, the following values for "delta T" (the difference between terrestrial time realized by atomic clocks and UT defined by the irregular rotation of the Earth) have been used:

Jan : 69.1 s	Apr : 69.1 s	Jul : 69.1 s	Oct : 69.1 s
Feb : 69.1 s	May : 69.1 s	Aug : 69.1 s	Nov : 69.1 s
Mar : 69.1 s	Jun : 69.1 s	Sep : 69.1 s	Dec : 69.1 s

Interpolation of the integral-hour GHA values

This Nautical Almanac uses a slightly different approach for the interpolation of the integral-hour values of Greenwich Hour Angle, compared to the techniques used in most commercially available Almanacs.

For more information please refer to the following web site: "<http://www.siranah.de/>"

The following table shows the fundamental star data as used in this Almanac. The data refers to Equinox J2000 / Epoch J2000.0.

Star Name	RA			Dec		mu_RA	mu_Dec	prllx	rad.vel.
	h	m	s	°	'	["/yr]	["/yr]	["]	[km/s]
Alpheratz	00	08	23.3	N 29	05.4	0.135680	-0.162950	0.034	-11
Ankaa	00	26	17.0	S 42	18.4	0.233050	-0.356300	0.039	75
Schedir	00	40	30.4	N 56	32.2	0.050360	-0.032170	0.014	-4
Diphda	00	43	35.4	S 17	59.2	0.232550	0.031990	0.034	13
Achernar	01	37	42.8	S 57	14.2	0.088020	-0.038240	0.023	16
Hamal	02	07	10.4	N 23	27.7	0.190730	-0.145770	0.049	-14
Polaris	02	31	49.1	N 89	15.8	0.044480	-0.011850	0.008	-17
Acamar	02	58	15.7	S 40	18.3	-0.044600	-0.019000	0.028	12
Menkar	03	02	16.8	N 04	05.4	-0.010410	-0.076850	0.013	-26
Mirfak	03	24	19.4	N 49	51.7	0.024110	-0.026010	0.005	-2
Aldebaran	04	35	55.2	N 16	30.6	0.063000	-0.190000	0.050	54
Capella	05	16	41.4	N 45	59.9	0.075520	-0.427110	0.077	29
Rigel	05	14	32.3	S 08	12.1	0.001870	-0.000560	0.004	21
Bellatrix	05	25	07.9	N 06	21.0	-0.008750	-0.013280	0.013	18
Elnath	05	26	17.5	N 28	36.5	0.023280	-0.174220	0.025	9
Alnilam	05	36	12.8	S 01	12.1	0.001490	-0.001060	0.002	26
Betelgeuze	05	55	10.3	N 07	24.4	0.024950	0.009560	0.005	22
Canopus	06	23	57.1	S 52	41.7	0.019990	0.023670	0.010	21
Sirius	06	45	08.9	S 16	43.0	-0.546050	-1.223140	0.379	-8
Adhara	06	58	37.6	S 28	58.3	0.002600	0.002290	0.008	27
Castor	07	34	36.0	N 31	53.3	-0.206330	-0.148180	0.066	5
Procyon	07	39	18.1	N 05	13.5	-0.716570	-1.034580	0.286	-3
Pollux	07	45	19.4	N 28	01.6	-0.625690	-0.045950	0.097	3
Avior	08	22	30.8	S 59	30.6	-0.025340	0.022720	0.005	2
Suhail	09	07	59.8	S 43	25.9	-0.023210	0.014280	0.006	18
Miaplacidus	09	13	12.0	S 69	43.0	-0.157660	0.108910	0.029	-5
Alphard	09	27	35.2	S 08	39.5	-0.014500	0.033250	0.018	-4
Regulus	10	08	22.3	N 11	58.0	0.249000	0.002000	0.042	6
Dubhe	11	03	43.7	N 61	45.0	-0.136460	-0.035250	0.026	-9
Denebola	11	49	03.6	N 14	34.3	-0.499020	-0.113780	0.090	0
Gienah	12	15	48.4	S 17	32.5	-0.161000	0.023000	0.020	-4
Acruz	12	26	35.9	S 63	05.9	-0.035370	-0.014730	0.010	-11
Gacrux	12	31	09.9	S 57	06.8	0.027940	-0.264330	0.037	21
Alioth	12	54	01.6	N 55	57.6	0.112000	-0.009000	0.040	-9
Spica	13	25	11.6	S 11	09.7	-0.042500	-0.031730	0.012	1
Alkaid	13	47	32.4	N 49	18.8	-0.122000	-0.015600	0.032	-11
Hadar	14	03	49.4	S 60	22.4	-0.033960	-0.025060	0.009	6
Menkent	14	06	41.3	S 36	22.1	-0.519290	-0.517870	0.053	1
Arcturus	14	15	39.7	N 19	10.9	-1.093450	-1.999400	0.089	5
Rigel Kentaurus	14	39	36.5	S 60	50.0	-3.678190	0.481840	0.747	-22
Zubenelgenubi	14	50	52.8	S 16	02.5	-0.106000	-0.067000	0.058	-10
Kocab	14	50	42.3	N 74	09.3	-0.032290	0.011910	0.026	17
Alphecca	15	34	41.3	N 26	42.9	0.120380	-0.089440	0.044	2
Antares	16	29	24.0	S 26	25.9	-0.010160	-0.023210	0.005	-3
Atria	16	48	39.9	S 69	01.7	0.017850	-0.032920	0.008	-3
Sabik	17	10	22.7	S 15	43.5	0.041160	0.097650	0.039	-2
Shaula	17	33	36.5	S 37	06.2	-0.008900	-0.029950	0.005	-3
Rasalhague	17	34	56.1	N 12	33.6	0.110080	-0.222610	0.070	13
Etamin	17	56	36.4	N 51	29.3	-0.008480	-0.022790	0.021	-28
Kaus Australis	18	24	10.3	S 34	23.1	-0.039420	-0.124200	0.023	-15
Vega	18	36	56.3	N 38	47.0	0.201030	0.287470	0.129	-14
Nunki	18	55	15.9	S 26	17.8	0.015140	-0.053430	0.014	-11
Albireo	19	30	43.3	N 27	57.6	0.005000	0.006000	0.009	-24
Altair	19	50	47.0	N 08	52.1	0.536870	0.385570	0.194	-26
Peacock	20	25	38.9	S 56	44.1	0.007710	-0.086150	0.018	2
Deneb	20	41	25.9	N 45	16.8	0.001990	0.001950	0.002	-5
Enif	21	44	11.2	N 09	52.5	0.030020	-0.001380	0.005	3
Alnair	22	08	14.0	S 46	57.7	0.128000	-0.148000	0.032	11
Formalhaut	22	57	39.0	S 29	37.3	0.329220	-0.164220	0.131	7
Markab	23	04	45.6	N 15	12.3	0.060400	-0.041300	0.024	-4

The following table lists the traditional star names as used in this Almanac with the corresponding scientific names (Bayer designation) as used in astronomical star constellation maps.

Star Name	Bayer designation	Apparent Magnitude
Alpheratz	Alpha Andromedae	2.06
Ankaa	Alpha Phoenicis	2.39
Schedir	Alpha Cassiopeiae	2.23
Diphda	Beta Ceti	2.04
Achernar	Alpha Eridani	0.46
Hamal	Alpha Arietis	2.00
Polaris	Alpha Ursae Minoris	2.02
Acamar	Theta Eridani	3.24
Menkar	Alpha Ceti	2.53
Mirfak	Alpha Persei	1.79
Aldebaran	Alpha Tauri	0.85
Capella	Alpha Aurigae	0.08
Rigel	Beta Orionis	0.12
Bellatrix	Gamma Orionis	1.64
Elnath	Beta Tauri	1.65
Alnilam	Epsilon Orionis	1.70
Betelgeuze	Alpha Orionis	0.50
Canopus	Alpha Carinae	-0.72
Sirius	Alpha Canis Majoris	-1.46
Adhara	Epsilon Canis Majoris	1.50
Castor	Alpha Geminorum	2.88
Procyon	Alpha Canis Minoris	0.38
Pollux	Beta Geminorum	1.14
Avior	Epsilon Carinae	1.86
Suhail	Lambda Velorum	2.21
Miaplacidus	Beta Carinae	1.68
Alphard	Alpha Hydrae	1.98
Regulus	Alpha Leonis	1.35
Dubhe	Alpha Ursae Majoris	1.79
Denebola	Beta Leonis	2.14
Gienah	Gamma Corvi	2.59
Acrux	Alpha Crucis	1.33
Gacrux	Gamma Crucis	1.63
Alioth	Epsilon Ursae Majoris	1.77
Spica	Alpha Virginis	0.98
Alkaid	Eta Ursae Majoris	1.86
Hadar	Beta Centauri	0.61
Menkent	Theta Centauri	2.06
Arcturus	Alpha Bootis	-0.04
Rigel Kentaurus	Alpha Centauri	-0.01
Zubenelgenubi	Alpha-2 Librae	2.75
Kocab	Beta Ursae Minoris	2.08
Alphecca	Alpha Coronae Borealis	2.23
Antares	Alpha Scorpii	0.96
Atria	Alpha Trianguli Australis	1.92
Sabik	Eta Ophiuchi	2.43
Shaula	Lambda Scorpii	1.63
Rasalhague	Alpha Ophiuchi	2.08
Etamin	Gamma Draconis	2.23
Kaus Australis	Epsilon Sagittarii	1.85
Vega	Alpha Lyrae	0.03
Nunki	Sigma Sagittarii	2.02
Albireo	Beta Cygni	3.08
Altair	Alpha Aquilae	0.77
Peacock	Alpha Pavonis	1.94
Deneb	Alpha Cygni	1.25
Enif	Epsilon Pegasi	2.39
Alnair	Alpha Gruis	1.74
Formalhaut	Alpha Piscis Austrini	1.16
Markab	Alpha Pegasi	2.49

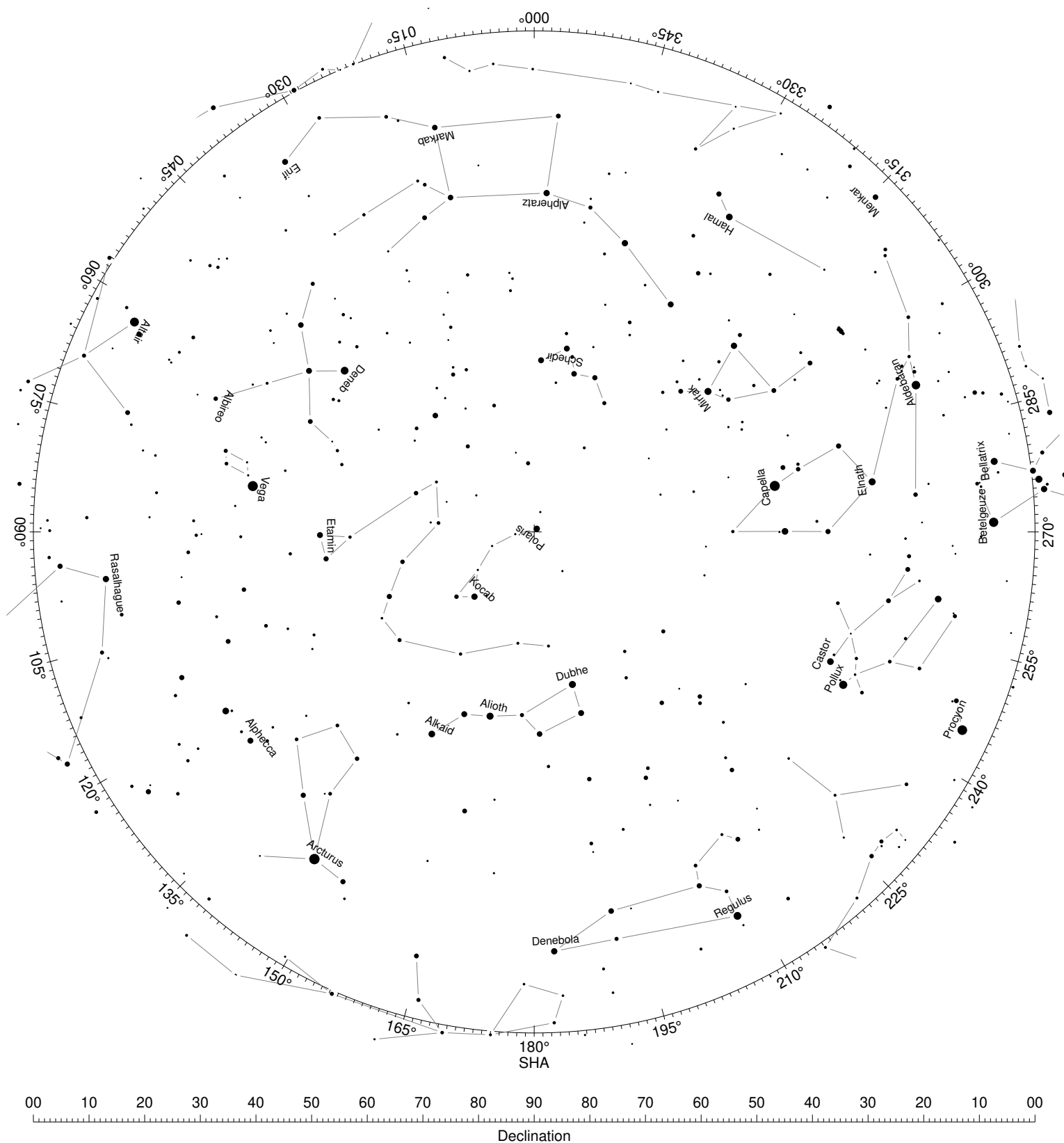
Position of the Stars on the local hemisphere

The following pages show different maps of the brightest stars on the night sky (down to magnitude 4.5) as well as some of the standard constellations. On each of the maps, the stars used in this Almanac are labeled with their traditional names.

The first two maps are stereographic maps of the stars of the northern- and southern hemisphere, respectively. These maps are centered on the celestial poles and may be used for observations at locations in high northern- or southern latitudes.

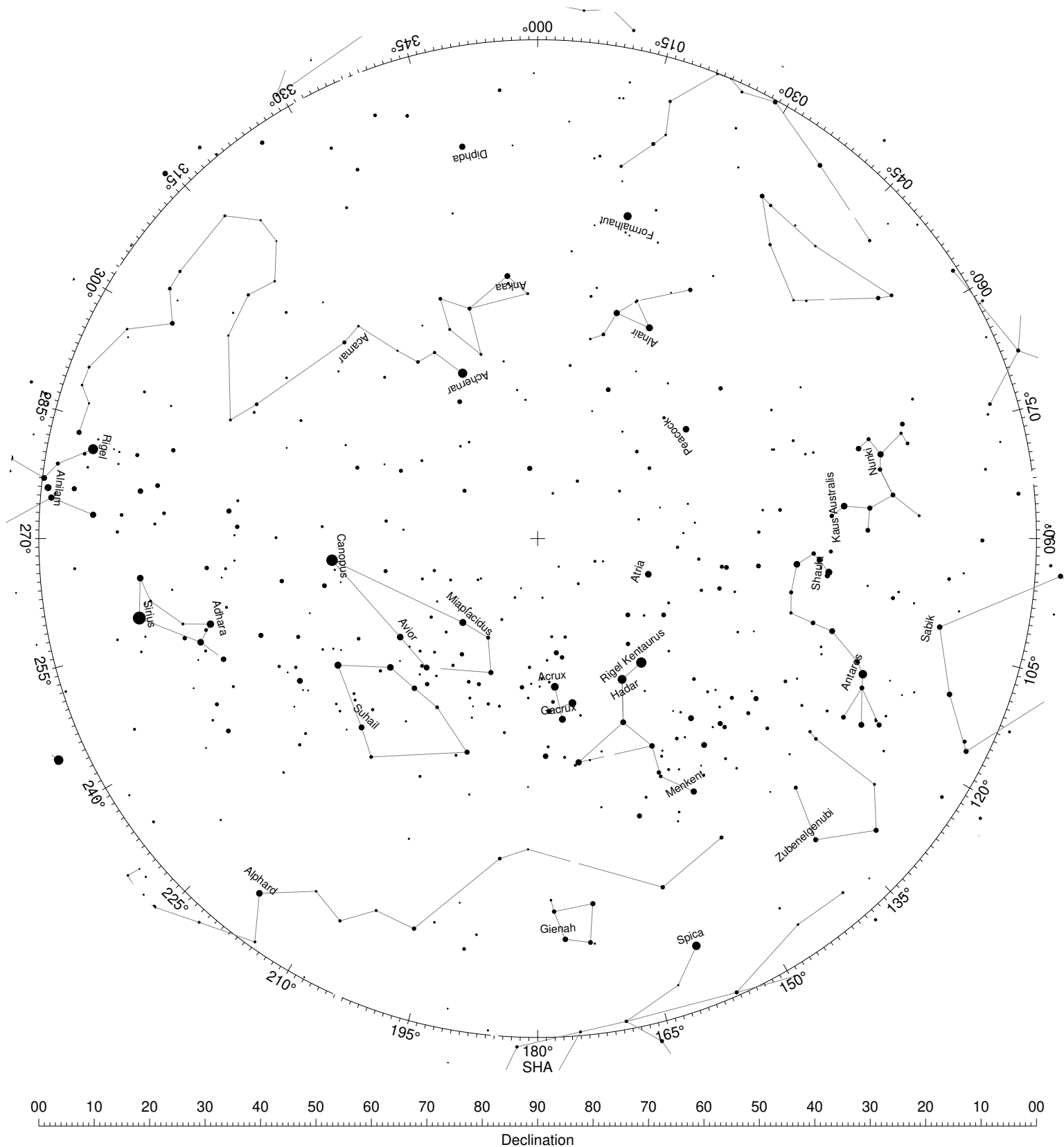
The following eight maps show the star constellations on the local hemisphere for locations on the Equator. These maps can be used for observations at locations in lower latitudes.

Map of bright Stars of the Northern Celestial Sphere



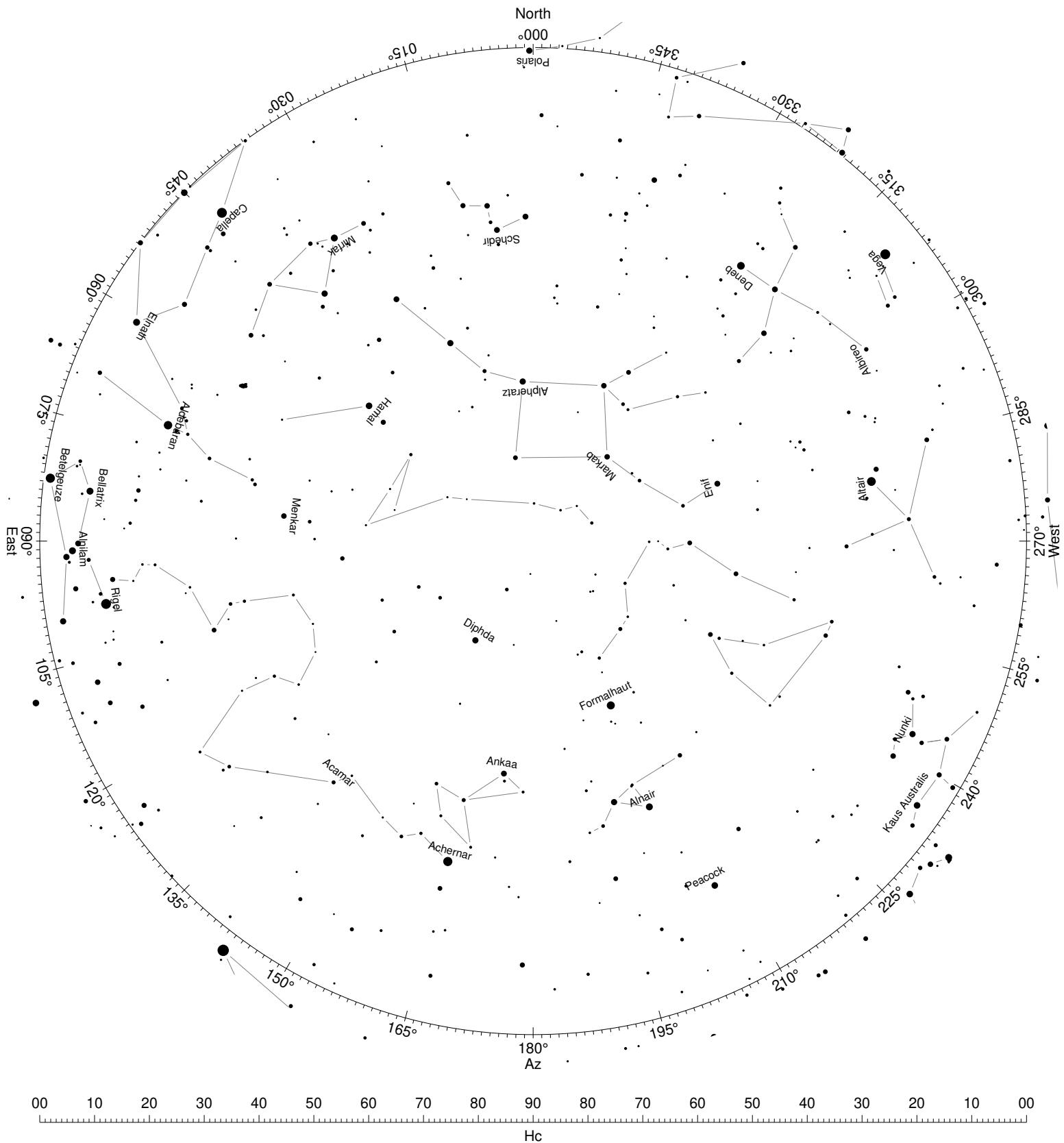
The map is centered on the celestial north pole and shows the brightest stars (up to magnitude 4.5) of the northern celestial hemisphere. The circle of constant declination is shown at 00° (Celestial Equator). The Sidereal Hour Angle of a specific star can be directly read from the SHA scale plotted on the Celestial Equator, while, the Declination can be determined by transferring the distance from the star to the center of the map onto the separate Declination scale. The Sidereal Hour Angle is zero for the "First-Point-of-Aries" and increases westward.

Map of bright Stars of the Southern Celestial Sphere



The map is centered on the celestial south pole and shows the brightest stars (up to magnitude 4.5) of the southern celestial hemisphere. The circle of constant declination is shown at 00° (Celestial Equator). The Sidereal Hour Angle of a specific star can be directly read from the SHA scale plotted on the Celestial Equator, while, the Declination can be determined by transferring the distance from the star to the center of the map onto the separate Declination scale. The Sidereal Hour Angle is zero for the "First-Point-of-Aries" and increases westward.

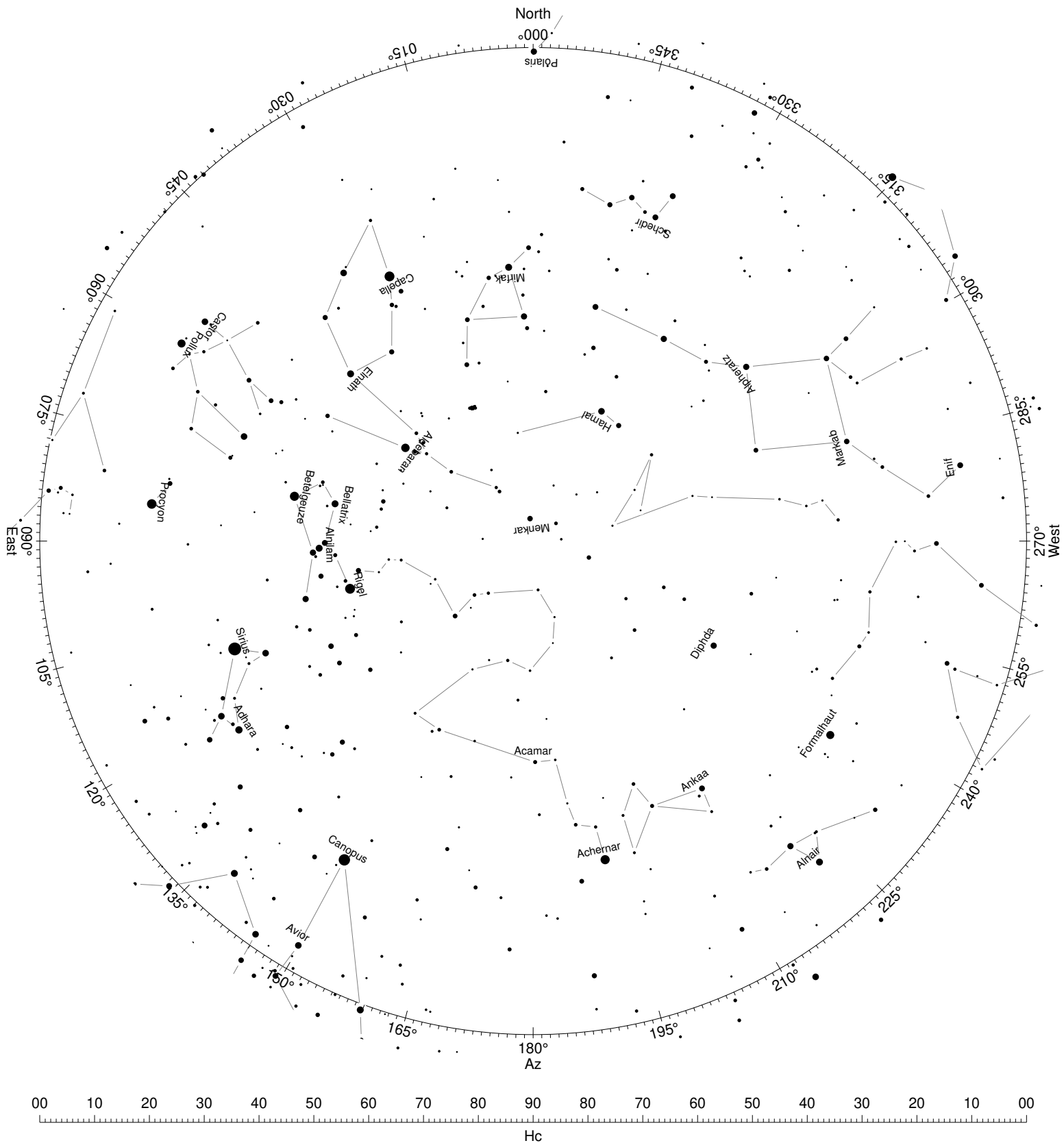
Horizontal-Coordinate-System Map of bright Stars - Part I



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible.

Each of these maps is valid for a location on the equator at a specific time of the day.

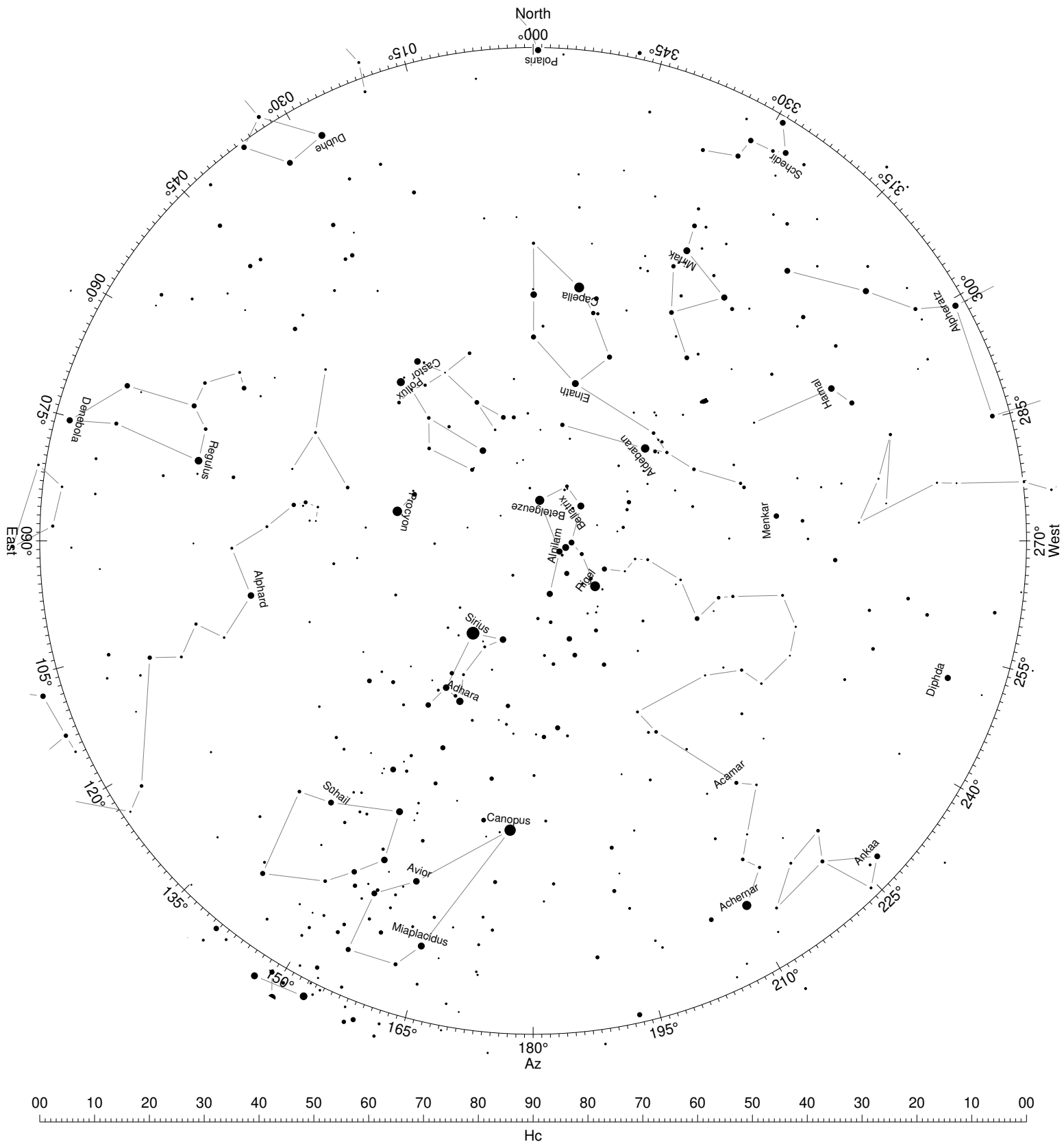
Horizontal-Coordinate-System Map of bright Stars - Part II



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible.

Each of these maps is valid for a location on the equator at a specific time of the day.

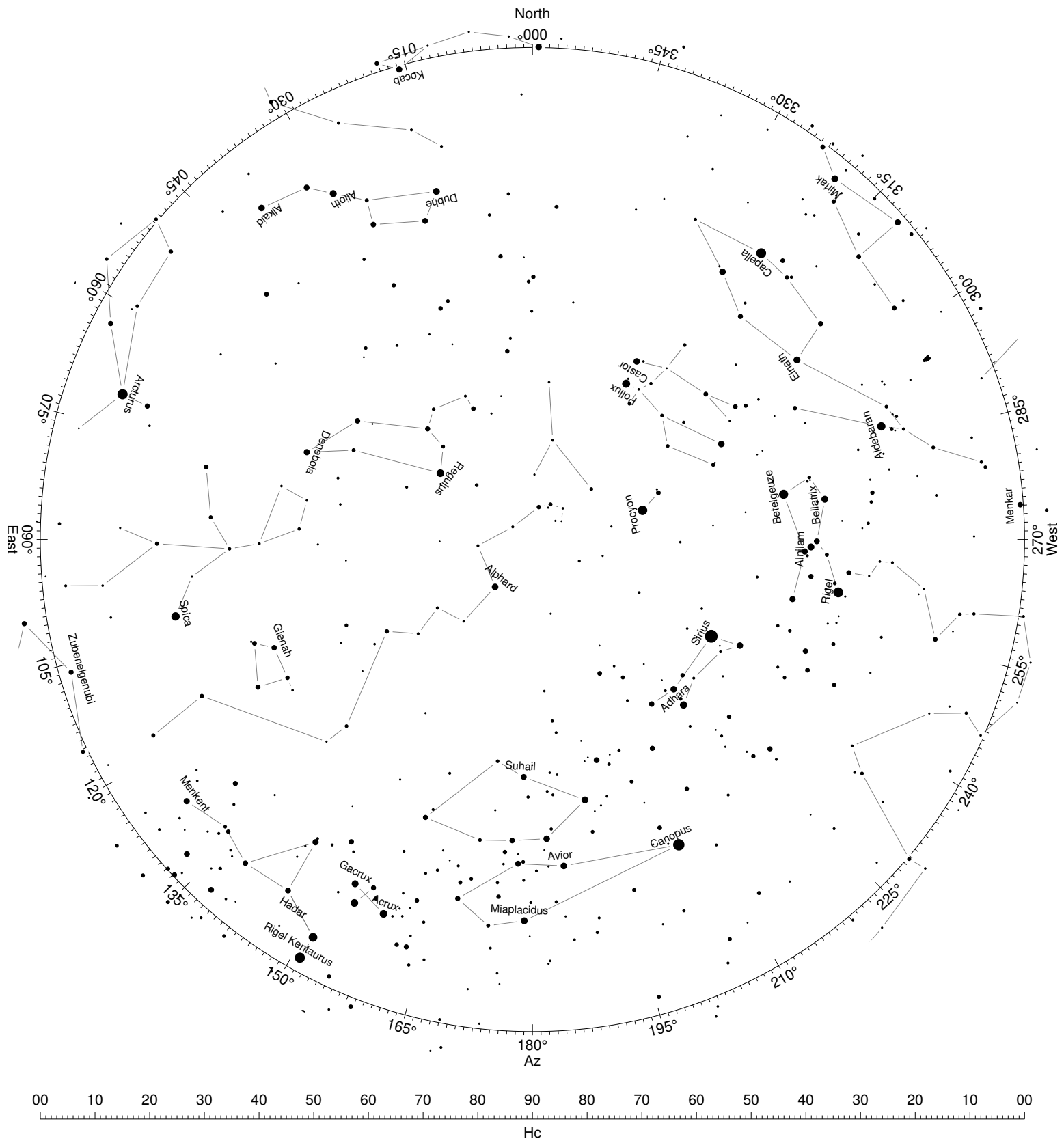
Horizontal-Coordinate-System Map of bright Stars - Part III



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible.

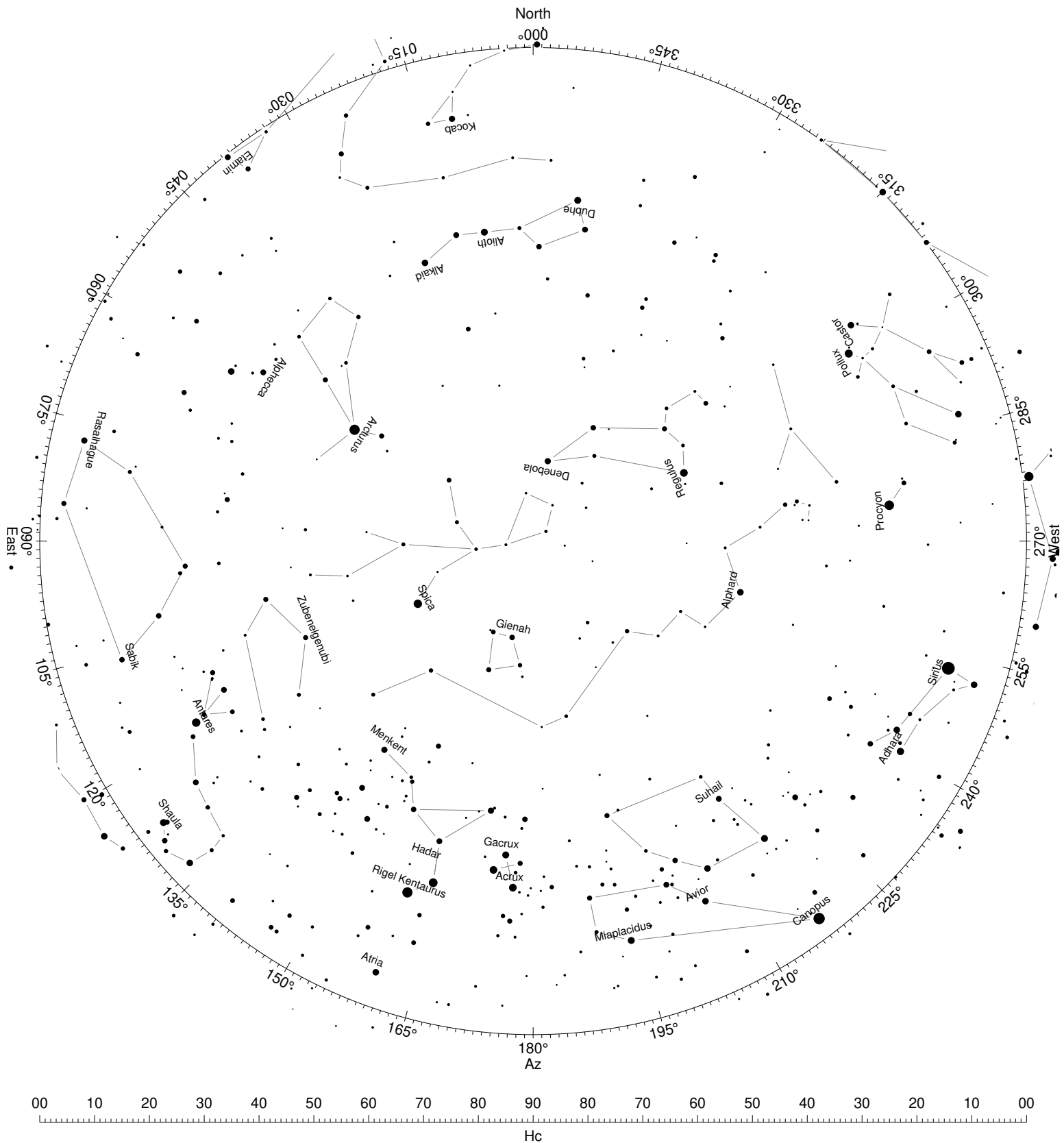
Each of these maps is valid for a location on the equator at a specific time of the day.

Horizontal-Coordinate-System Map of bright Stars - Part IV



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible. Each of these maps is valid for a location on the equator at a specific time of the day.

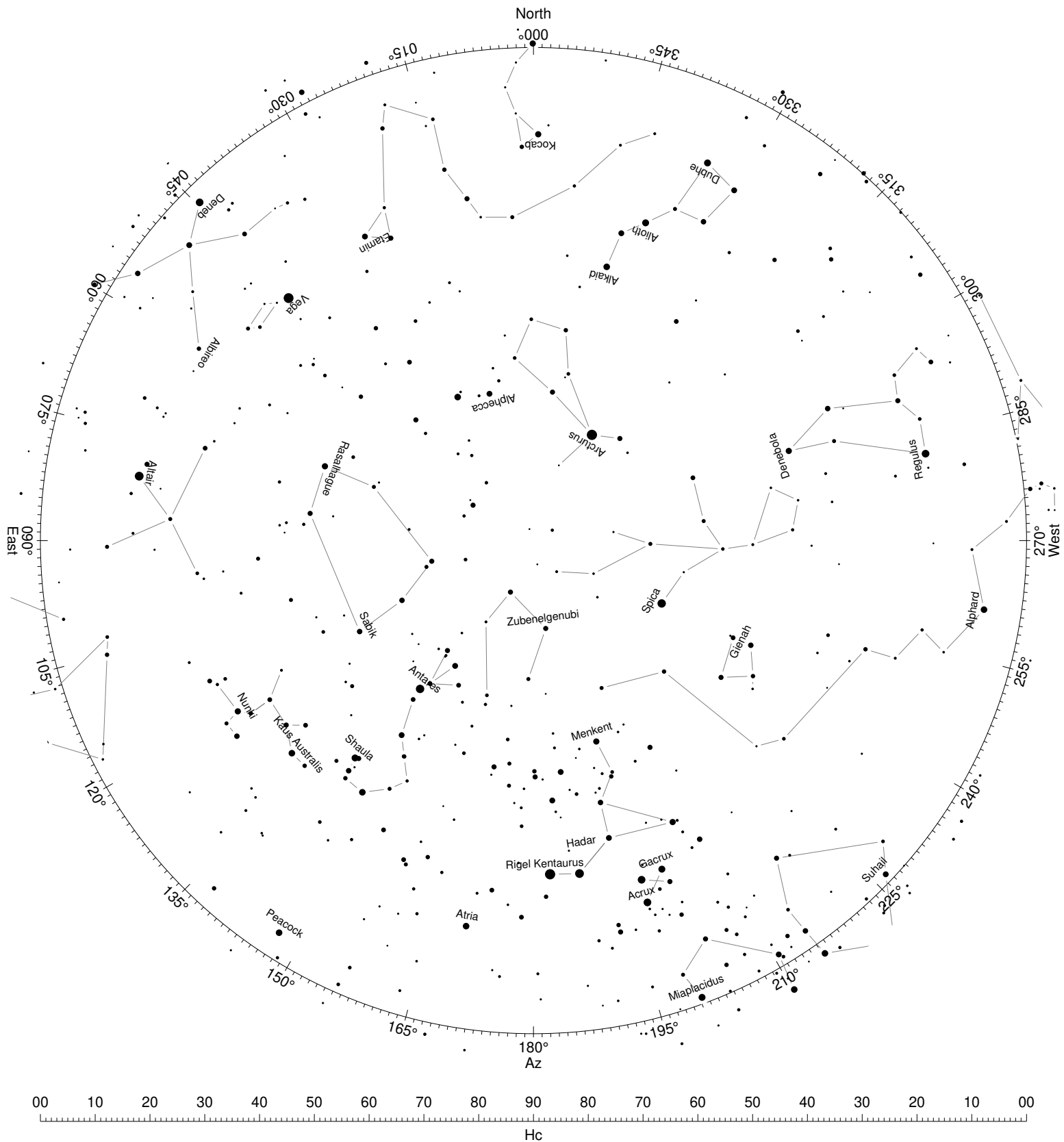
Horizontal-Coordinate-System Map of bright Stars - Part V



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible.

Each of these maps is valid for a location on the equator at a specific time of the day.

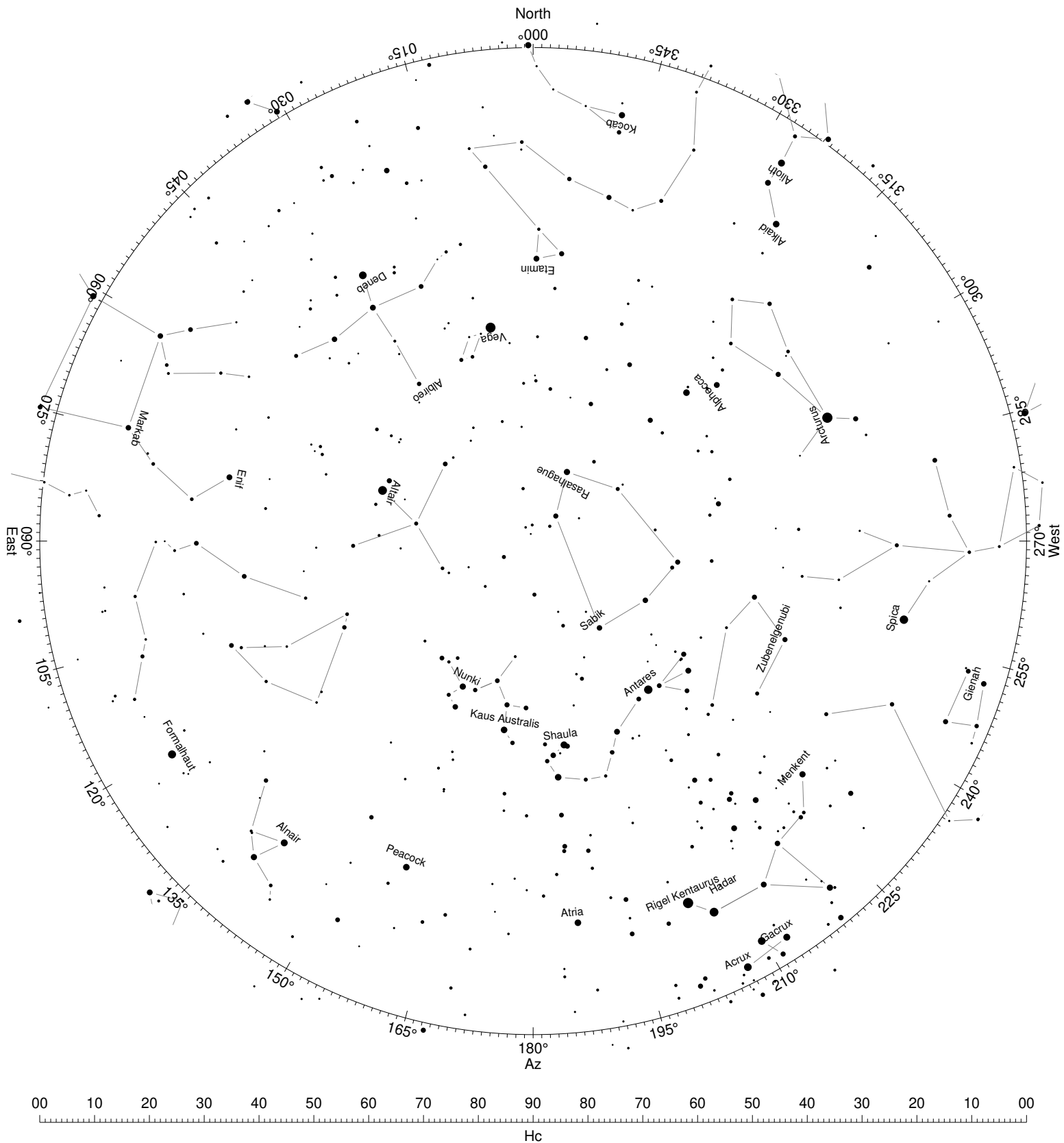
Horizontal-Coordinate-System Map of bright Stars - Part VI



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible.

Each of these maps is valid for a location on the equator at a specific time of the day.

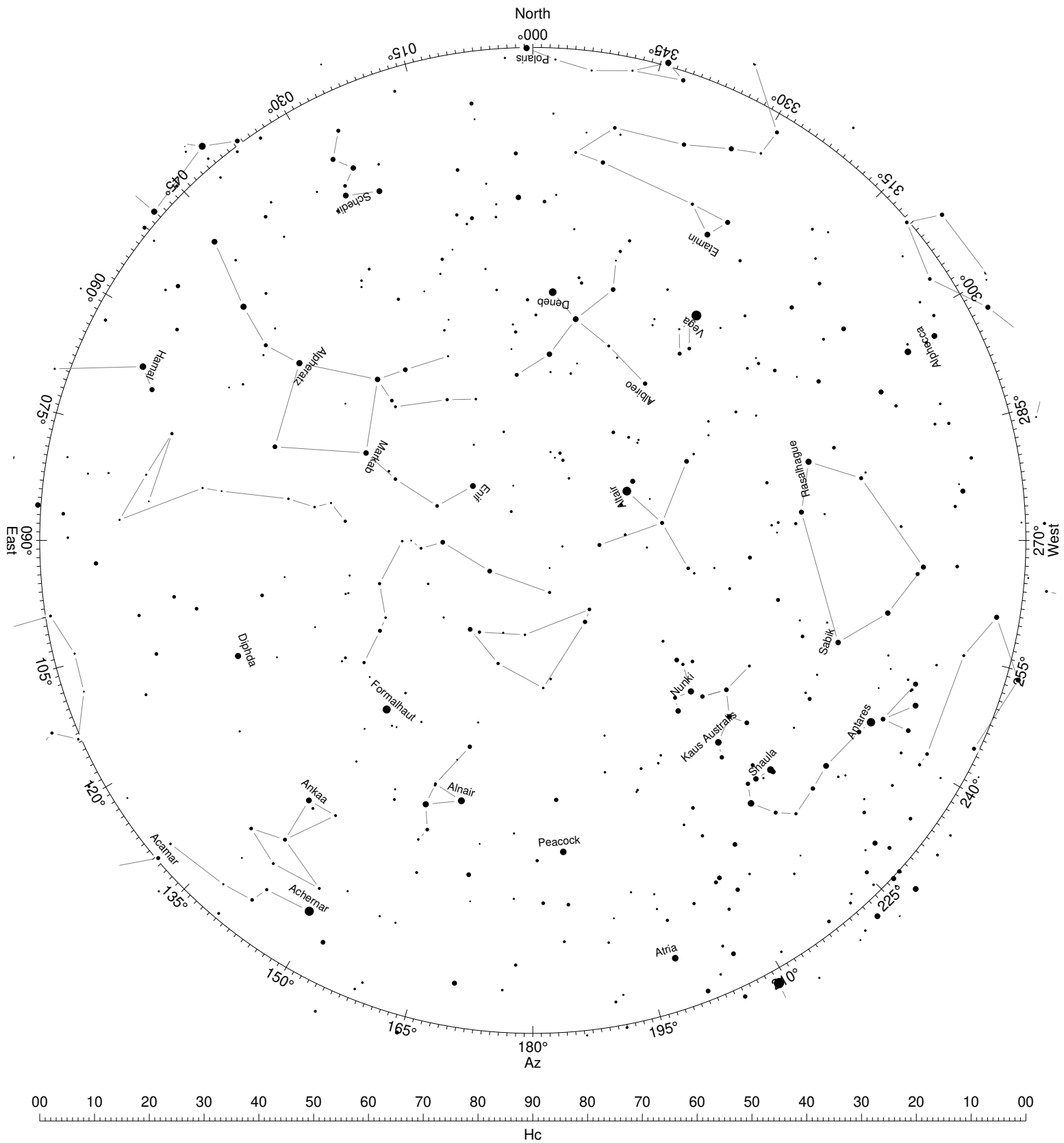
Horizontal-Coordinate-System Map of bright Stars - Part VII



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible.

Each of these maps is valid for a location on the equator at a specific time of the day.

Horizontal-Coordinate-System Map of bright Stars - Part VIII



The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth is the approximate compass direction in which the star is visible. Each of these maps is valid for a location on the equator at a specific time of the day.

Nautical Almanac for selected Stars

The following pages contain the celestial coordinates of the "First Point of Aries" and a set of selected stars. Each page compiles the almanac data for five successive days of the year. For this time span, the recorded star data consisting of Siderial Hour Angle (SHA) and Declination (Dec) is valid. The time used in this Almanac is Universal Time (UT).

The GHA of a specific star is obtained from the GHA of the "First Point of Aries" and the star's SHA by the following relationship: $GHA_{star} = GHA_{Aries} + SHA_{star}$

NOTICE:

This Nautical Almanac uses a slightly different approach for the interpolation of the integral-hour values of Greenwich Hour Angle and Declination, compared to the techniques used in most commercially available Almanacs.

For more information please refer to the following web site: "<http://www.siranah.de/>"

Abbreviations used in the Almanac tables:

UT	Universal Time	
GHA	Greenwich Hour Angle	° [degrees]
ddGHA	the increment of the GHA value for the next hour of time, additional to the "linear" increment of 15°/h	' [minutes of arc]
SHA	Siderial Hour Angle	° [degrees]
Dec	Declination	° [degrees]

2025 - First Point of Aries / Selected Stars

UT	day 1 of 365 <i>January 1</i>		day 2 of 365 <i>January 2</i>		day 3 of 365 <i>January 3</i>		day 4 of 365 <i>January 4</i>		day 5 of 365 <i>January 5</i>		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	100	54.0 +02.4	101	53.1 +02.5	102	52.3 +02.4	103	51.4 +02.5	104	50.5 +02.5	00
01	115	56.4 +02.5	116	55.6 +02.4	117	54.7 +02.5	118	53.9 +02.4	119	53.0 +02.5	01
02	130	58.9 +02.5	131	58.0 +02.5	132	57.2 +02.5	133	56.3 +02.5	134	55.5 +02.4	02
03	146	01.4 +02.4	147	00.5 +02.5	147	59.7 +02.4	148	58.8 +02.5	149	57.9 +02.5	03
04	161	03.8 +02.5	162	03.0 +02.4	163	02.1 +02.5	164	01.3 +02.4	165	00.4 +02.5	04
05	176	06.3 +02.5	177	05.4 +02.5	178	04.6 +02.4	179	03.7 +02.5	180	02.9 +02.4	05
06	191	08.8 +02.4	192	07.9 +02.5	193	07.0 +02.5	194	06.2 +02.4	195	05.3 +02.5	06
07	206	11.2 +02.5	207	10.4 +02.4	208	09.5 +02.5	209	08.6 +02.5	210	07.8 +02.4	07
08	221	13.7 +02.5	222	12.8 +02.5	223	12.0 +02.4	224	11.1 +02.5	225	10.2 +02.5	08
09	236	16.2 +02.4	237	15.3 +02.5	238	14.4 +02.5	239	13.6 +02.4	240	12.7 +02.5	09
10	251	18.6 +02.5	252	17.8 +02.4	253	16.9 +02.5	254	16.0 +02.5	255	15.2 +02.4	10
11	266	21.1 +02.4	267	20.2 +02.5	268	19.4 +02.4	269	18.5 +02.5	270	17.6 +02.5	11
12	281	23.5 +02.5	282	22.7 +02.5	283	21.8 +02.5	284	21.0 +02.4	285	20.1 +02.5	12
13	296	26.0 +02.5	297	25.2 +02.4	298	24.3 +02.5	299	23.4 +02.5	300	22.6 +02.4	13
14	311	28.5 +02.4	312	27.6 +02.5	313	26.8 +02.4	314	25.9 +02.5	315	25.0 +02.5	14
15	326	30.9 +02.5	327	30.1 +02.4	328	29.2 +02.5	329	28.4 +02.4	330	27.5 +02.5	15
16	341	33.4 +02.5	342	32.5 +02.5	343	31.7 +02.4	344	30.8 +02.5	345	30.0 +02.4	16
17	356	35.9 +02.4	357	35.0 +02.5	358	34.1 +02.5	359	33.3 +02.5	0	32.4 +02.5	17
18	11	38.3 +02.5	12	37.5 +02.4	13	36.6 +02.5	14	35.8 +02.4	15	34.9 +02.5	18
19	26	40.8 +02.5	27	39.9 +02.5	28	39.1 +02.4	29	38.2 +02.5	30	37.4 +02.4	19
20	41	43.3 +02.4	42	42.4 +02.5	43	41.5 +02.5	44	40.7 +02.4	45	39.8 +02.5	20
21	56	45.7 +02.5	57	44.9 +02.4	58	44.0 +02.5	59	43.1 +02.5	60	42.3 +02.4	21
22	71	48.2 +02.5	72	47.3 +02.5	73	46.5 +02.4	74	45.6 +02.5	75	44.7 +02.5	22
23	86	50.7 +02.4	87	49.8 +02.5	88	48.9 +02.5	89	48.1 +02.4	90	47.2 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.9	Gienah	175 43.5	S 17 40.8
Ankaa	353 07.3	S 42 10.3	Acrux	173 00.1	S 63 14.0
Schedir	349 31.1	N 56 40.8	Gacrux	171 51.7	S 57 14.8
Diphda	348 47.4	S 17 51.1	Alioth	166 13.1	N 55 49.1
Achernar	335 20.1	S 57 06.8	Spica	158 22.4	S 11 17.5
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.1	N 49 11.0
Polaris	313 45.2	N 89 22.4	Hadar	148 36.3	S 60 29.3
Acamar	315 11.5	S 40 12.4	Menkent	147 57.5	S 36 29.1
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.7	N 19 03.8
Mirfak	308 27.9	N 49 57.2	Rigel Kentaurus	139 37.7	S 60 56.3
Aldebaran	290 39.3	N 16 33.7	Zubenelgenubi	136 56.2	S 16 08.7
Capella	280 21.5	N 46 01.6	Kocab	137 20.4	N 74 02.8
Rigel	281 03.6	S 08 10.4	Alphecca	126 04.1	N 26 37.7
Bellatrix	278 22.6	N 06 22.4	Antares	112 16.3	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 11.0	S 69 04.2
Alnilam	275 37.4	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.8	S 37 07.3
Canopus	263 51.9	S 52 42.5	Rasalhague	95 58.9	N 12 32.5
Sirius	258 25.7	S 16 44.5	Etamin	90 42.7	N 51 29.0
Adhara	255 05.5	S 29 00.3	Kaus Australis	83 32.9	S 34 22.3
Castor	245 56.6	N 31 50.0	Vega	80 33.8	N 38 48.2
Procyon	244 50.3	N 05 10.0	Nunki	75 48.2	S 26 16.0
Pollux	243 16.6	N 27 57.9	Albireo	67 04.5	N 28 00.7
Avior	234 14.1	S 59 35.2	Altair	62 00.5	N 08 55.9
Suhail	222 45.9	S 43 31.8	Peacock	53 06.3	S 56 39.4
Miaplacidus	221 37.4	S 69 49.0	Deneb	49 26.2	N 45 22.2
Alphard	217 47.5	S 08 46.0	Enif	33 39.1	N 09 59.4
Regulus	207 34.1	N 11 50.6	Alnair	27 33.3	S 46 50.6
Dubhe	193 40.6	N 61 36.7	Formalhaut	15 14.8	S 29 29.5
Denebola	182 24.7	N 14 25.9	Markab	13 30.1	N 15 20.5

2025 - First Point of Aries / Selected Stars

UT	day 6 of 365 January 6		day 7 of 365 January 7		day 8 of 365 January 8		day 9 of 365 January 9		day 10 of 365 January 10		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	105 49.7	+02.4	106 48.8	+02.5	107 47.9	+02.5	108 47.1	+02.5	109 46.2	+02.5	00
01	120 52.1	+02.5	121 51.3	+02.4	122 50.4	+02.5	123 49.6	+02.4	124 48.7	+02.5	01
02	135 54.6	+02.5	136 53.7	+02.5	137 52.9	+02.4	138 52.0	+02.5	139 51.2	+02.4	02
03	150 57.1	+02.4	151 56.2	+02.5	152 55.3	+02.5	153 54.5	+02.4	154 53.6	+02.5	03
04	165 59.5	+02.5	166 58.7	+02.4	167 57.8	+02.5	168 56.9	+02.5	169 56.1	+02.5	04
05	181 02.0	+02.5	182 01.1	+02.5	183 00.3	+02.4	183 59.4	+02.5	184 58.6	+02.4	05
06	196 04.5	+02.4	197 03.6	+02.5	198 02.7	+02.5	199 01.9	+02.4	200 01.0	+02.5	06
07	211 06.9	+02.5	212 06.1	+02.4	213 05.2	+02.5	214 04.3	+02.5	215 03.5	+02.4	07
08	226 09.4	+02.4	227 08.5	+02.5	228 07.7	+02.4	229 06.8	+02.5	230 05.9	+02.5	08
09	241 11.8	+02.5	242 11.0	+02.5	243 10.1	+02.5	244 09.3	+02.4	245 08.4	+02.5	09
10	256 14.3	+02.5	257 13.5	+02.4	258 12.6	+02.5	259 11.7	+02.5	260 10.9	+02.4	10
11	271 16.8	+02.4	272 15.9	+02.5	273 15.1	+02.4	274 14.2	+02.5	275 13.3	+02.5	11
12	286 19.2	+02.5	287 18.4	+02.4	288 17.5	+02.5	289 16.7	+02.4	290 15.8	+02.5	12
13	301 21.7	+02.5	302 20.8	+02.5	303 20.0	+02.4	304 19.1	+02.5	305 18.3	+02.4	13
14	316 24.2	+02.4	317 23.3	+02.5	318 22.4	+02.5	319 21.6	+02.5	320 20.7	+02.5	14
15	331 26.6	+02.5	332 25.8	+02.4	333 24.9	+02.5	334 24.1	+02.4	335 23.2	+02.5	15
16	346 29.1	+02.5	347 28.2	+02.5	348 27.4	+02.4	349 26.5	+02.5	350 25.7	+02.4	16
17	1 31.6	+02.4	2 30.7	+02.5	3 29.8	+02.5	4 29.0	+02.4	5 28.1	+02.5	17
18	16 34.0	+02.5	17 33.2	+02.4	18 32.3	+02.5	19 31.4	+02.5	20 30.6	+02.4	18
19	31 36.5	+02.5	32 35.6	+02.5	33 34.8	+02.4	34 33.9	+02.5	35 33.0	+02.5	19
20	46 39.0	+02.4	47 38.1	+02.5	48 37.2	+02.5	49 36.4	+02.4	50 35.5	+02.5	20
21	61 41.4	+02.5	62 40.6	+02.4	63 39.7	+02.5	64 38.8	+02.5	65 38.0	+02.4	21
22	76 43.9	+02.4	77 43.0	+02.5	78 42.2	+02.4	79 41.3	+02.5	80 40.4	+02.5	22
23	91 46.3	+02.5	92 45.5	+02.4	93 44.6	+02.5	94 43.8	+02.4	95 42.9	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.9	Gienah	175 43.5	S 17 40.8
Ankaa	353 07.3	S 42 10.3	Acrux	173 00.0	S 63 14.0
Schedir	349 31.1	N 56 40.8	Gacrux	171 51.6	S 57 14.8
Diphda	348 47.4	S 17 51.1	Alioth	166 13.0	N 55 49.1
Achernar	335 20.1	S 57 06.8	Spica	158 22.3	S 11 17.5
Hamal	327 51.2	N 23 35.0	Alkaid	152 52.0	N 49 11.0
Polaris	313 47.3	N 89 22.5	Hadar	148 36.2	S 60 29.3
Acamar	315 11.5	S 40 12.5	Menkent	147 57.4	S 36 29.1
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.6	N 19 03.8
Mirfak	308 28.0	N 49 57.2	Rigel Kentaurus	139 37.7	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.1	S 16 08.7
Capella	280 21.5	N 46 01.6	Kocab	137 20.3	N 74 02.8
Rigel	281 03.6	S 08 10.4	Alphecca	126 04.0	N 26 37.7
Bellatrix	278 22.6	N 06 22.3	Antares	112 16.3	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 10.9	S 69 04.2
Alnilam	275 37.4	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.8	S 37 07.3
Canopus	263 51.9	S 52 42.5	Rasalhague	95 58.9	N 12 32.5
Sirius	258 25.7	S 16 44.5	Etamin	90 42.7	N 51 29.0
Adhara	255 05.5	S 29 00.3	Kaus Australis	83 32.9	S 34 22.3
Castor	245 56.6	N 31 50.0	Vega	80 33.8	N 38 48.2
Procyon	244 50.2	N 05 10.0	Nunki	75 48.1	S 26 16.0
Pollux	243 16.6	N 27 57.9	Albireo	67 04.5	N 28 00.7
Avior	234 14.1	S 59 35.3	Altair	62 00.5	N 08 55.8
Suhail	222 45.9	S 43 31.9	Peacock	53 06.3	S 56 39.4
Miaplacidus	221 37.3	S 69 49.0	Deneb	49 26.3	N 45 22.2
Alphard	217 47.5	S 08 46.0	Enif	33 39.1	N 09 59.4
Regulus	207 34.1	N 11 50.6	Alnair	27 33.3	S 46 50.5
Dubhe	193 40.5	N 61 36.7	Formalhaut	15 14.8	S 29 29.5
Denebola	182 24.7	N 14 25.9	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 11 of 365 <i>January 11</i>		day 12 of 365 <i>January 12</i>		day 13 of 365 <i>January 13</i>		day 14 of 365 <i>January 14</i>		day 15 of 365 <i>January 15</i>		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	110 45.4	+02.4	111 44.5	+02.5	112 43.7	+02.4	113 42.8	+02.5	114 41.9	+02.5	00
01	125 47.8	+02.5	126 47.0	+02.4	127 46.1	+02.5	128 45.3	+02.4	129 44.4	+02.5	01
02	140 50.3	+02.5	141 49.4	+02.5	142 48.6	+02.4	143 47.7	+02.5	144 46.9	+02.4	02
03	155 52.8	+02.4	156 51.9	+02.5	157 51.0	+02.5	158 50.2	+02.5	159 49.3	+02.5	03
04	170 55.2	+02.5	171 54.4	+02.4	172 53.5	+02.5	173 52.7	+02.4	174 51.8	+02.5	04
05	185 57.7	+02.5	186 56.8	+02.5	187 56.0	+02.4	188 55.1	+02.5	189 54.3	+02.4	05
06	201 00.2	+02.4	201 59.3	+02.5	202 58.4	+02.5	203 57.6	+02.4	204 56.7	+02.5	06
07	216 02.6	+02.5	217 01.8	+02.4	218 00.9	+02.5	219 00.0	+02.5	219 59.2	+02.4	07
08	231 05.1	+02.4	232 04.2	+02.5	233 03.4	+02.4	234 02.5	+02.5	235 01.6	+02.5	08
09	246 07.5	+02.5	247 06.7	+02.5	248 05.8	+02.5	249 05.0	+02.4	250 04.1	+02.5	09
10	261 10.0	+02.5	262 09.2	+02.4	263 08.3	+02.5	264 07.4	+02.5	265 06.6	+02.4	10
11	276 12.5	+02.4	277 11.6	+02.5	278 10.8	+02.4	279 09.9	+02.5	280 09.0	+02.5	11
12	291 14.9	+02.5	292 14.1	+02.4	293 13.2	+02.5	294 12.4	+02.4	295 11.5	+02.5	12
13	306 17.4	+02.5	307 16.5	+02.5	308 15.7	+02.5	309 14.8	+02.5	310 14.0	+02.4	13
14	321 19.9	+02.4	322 19.0	+02.5	323 18.2	+02.4	324 17.3	+02.5	325 16.4	+02.5	14
15	336 22.3	+02.5	337 21.5	+02.4	338 20.6	+02.5	339 19.8	+02.4	340 18.9	+02.5	15
16	351 24.8	+02.5	352 23.9	+02.5	353 23.1	+02.4	354 22.2	+02.5	355 21.4	+02.4	16
17	6 27.3	+02.4	7 26.4	+02.5	8 25.5	+02.5	9 24.7	+02.5	10 23.8	+02.5	17
18	21 29.7	+02.5	22 28.9	+02.4	23 28.0	+02.5	24 27.2	+02.4	25 26.3	+02.5	18
19	36 32.2	+02.5	37 31.3	+02.5	38 30.5	+02.4	39 29.6	+02.5	40 28.8	+02.4	19
20	51 34.7	+02.4	52 33.8	+02.5	53 32.9	+02.5	54 32.1	+02.4	55 31.2	+02.5	20
21	66 37.1	+02.5	67 36.3	+02.4	68 35.4	+02.5	69 34.5	+02.5	70 33.7	+02.4	21
22	81 39.6	+02.4	82 38.7	+02.5	83 37.9	+02.4	84 37.0	+02.5	85 36.1	+02.5	22
23	96 42.0	+02.5	97 41.2	+02.5	98 40.3	+02.5	99 39.5	+02.4	100 38.6	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.9	Gienah	175 43.4	S 17 40.8
Ankaa	353 07.3	S 42 10.3	Acrux	172 59.9	S 63 14.0
Schedir	349 31.2	N 56 40.8	Gacrux	171 51.6	S 57 14.8
Diphda	348 47.4	S 17 51.1	Alioth	166 13.0	N 55 49.1
Achernar	335 20.2	S 57 06.9	Spica	158 22.3	S 11 17.5
Hamal	327 51.2	N 23 35.0	Alkaid	152 52.0	N 49 11.0
Polaris	313 49.0	N 89 22.5	Hadar	148 36.1	S 60 29.3
Acamar	315 11.5	S 40 12.5	Menkent	147 57.4	S 36 29.1
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.6	N 19 03.8
Mirfak	308 28.0	N 49 57.2	Rigel Kentaurus	139 37.6	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.1	S 16 08.7
Capella	280 21.5	N 46 01.6	Kocab	137 20.2	N 74 02.8
Rigel	281 03.6	S 08 10.4	Alphecca	126 04.0	N 26 37.7
Bellatrix	278 22.6	N 06 22.3	Antares	112 16.2	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 10.8	S 69 04.1
Alnilam	275 37.4	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.7	S 37 07.3
Canopus	263 51.9	S 52 42.6	Rasalhague	95 58.9	N 12 32.5
Sirius	258 25.7	S 16 44.6	Etamin	90 42.7	N 51 29.0
Adhara	255 05.5	S 29 00.4	Kaus Australis	83 32.9	S 34 22.3
Castor	245 56.6	N 31 50.0	Vega	80 33.7	N 38 48.2
Procyon	244 50.2	N 05 10.0	Nunki	75 48.1	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.4	N 28 00.7
Avior	234 14.1	S 59 35.3	Altair	62 00.5	N 08 55.8
Suhail	222 45.9	S 43 31.9	Peacock	53 06.3	S 56 39.3
Miaplacidus	221 37.3	S 69 49.0	Deneb	49 26.3	N 45 22.2
Alphard	217 47.5	S 08 46.0	Enif	33 39.1	N 09 59.4
Regulus	207 34.1	N 11 50.6	Alnair	27 33.3	S 46 50.5
Dubhe	193 40.5	N 61 36.7	Formalhaut	15 14.9	S 29 29.5
Denebola	182 24.6	N 14 25.8	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 16 of 365 January 16		day 17 of 365 January 17		day 18 of 365 January 18		day 19 of 365 January 19		day 20 of 365 January 20		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	115 41.1	+02.4	116 40.2	+02.5	117 39.4	+02.4	118 38.5	+02.5	119 37.6	+02.5	00
01	130 43.5	+02.5	131 42.7	+02.4	132 41.8	+02.5	133 41.0	+02.4	134 40.1	+02.5	01
02	145 46.0	+02.5	146 45.1	+02.5	147 44.3	+02.4	148 43.4	+02.5	149 42.6	+02.4	02
03	160 48.5	+02.4	161 47.6	+02.5	162 46.7	+02.5	163 45.9	+02.4	164 45.0	+02.5	03
04	175 50.9	+02.5	176 50.1	+02.4	177 49.2	+02.5	178 48.3	+02.5	179 47.5	+02.4	04
05	190 53.4	+02.5	191 52.5	+02.5	192 51.7	+02.4	193 50.8	+02.5	194 49.9	+02.5	05
06	205 55.9	+02.4	206 55.0	+02.5	207 54.1	+02.5	208 53.3	+02.4	209 52.4	+02.5	06
07	220 58.3	+02.5	221 57.5	+02.4	222 56.6	+02.5	223 55.7	+02.5	224 54.9	+02.4	07
08	236 00.8	+02.5	236 59.9	+02.5	237 59.1	+02.4	238 58.2	+02.5	239 57.3	+02.5	08
09	251 03.3	+02.4	252 02.4	+02.5	253 01.5	+02.5	254 00.7	+02.4	254 59.8	+02.5	09
10	266 05.7	+02.5	267 04.9	+02.4	268 04.0	+02.5	269 03.1	+02.5	270 02.3	+02.4	10
11	281 08.2	+02.4	282 07.3	+02.5	283 06.5	+02.4	284 05.6	+02.5	285 04.7	+02.5	11
12	296 10.6	+02.5	297 09.8	+02.4	298 08.9	+02.5	299 08.1	+02.4	300 07.2	+02.5	12
13	311 13.1	+02.5	312 12.2	+02.5	313 11.4	+02.4	314 10.5	+02.5	315 09.7	+02.4	13
14	326 15.6	+02.4	327 14.7	+02.5	328 13.8	+02.5	329 13.0	+02.5	330 12.1	+02.5	14
15	341 18.0	+02.5	342 17.2	+02.4	343 16.3	+02.5	344 15.5	+02.4	345 14.6	+02.5	15
16	356 20.5	+02.5	357 19.6	+02.5	358 18.8	+02.4	359 17.9	+02.5	0 17.1	+02.4	16
17	11 23.0	+02.4	12 22.1	+02.5	13 21.2	+02.5	14 20.4	+02.4	15 19.5	+02.5	17
18	26 25.4	+02.5	27 24.6	+02.4	28 23.7	+02.5	29 22.8	+02.5	30 22.0	+02.4	18
19	41 27.9	+02.5	42 27.0	+02.5	43 26.2	+02.4	44 25.3	+02.5	45 24.4	+02.5	19
20	56 30.4	+02.4	57 29.5	+02.5	58 28.6	+02.5	59 27.8	+02.4	60 26.9	+02.5	20
21	71 32.8	+02.5	72 32.0	+02.4	73 31.1	+02.5	74 30.2	+02.5	75 29.4	+02.4	21
22	86 35.3	+02.4	87 34.4	+02.5	88 33.6	+02.4	89 32.7	+02.5	90 31.8	+02.5	22
23	101 37.7	+02.5	102 36.9	+02.5	103 36.0	+02.5	104 35.2	+02.4	105 34.3	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.9	Gienah	175 43.4	S 17 40.8
Ankaa	353 07.3	S 42 10.3	Acrux	172 59.9	S 63 14.0
Schedir	349 31.2	N 56 40.7	Gacrux	171 51.5	S 57 14.9
Diphda	348 47.4	S 17 51.1	Alioth	166 12.9	N 55 49.1
Achernar	335 20.2	S 57 06.8	Spica	158 22.2	S 11 17.5
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Acamar	315 11.5	S 40 12.5	Menkent	147 57.3	S 36 29.2
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.5	N 19 03.7
Mirfak	308 28.0	N 49 57.2	Rigel Kentaurus	139 37.5	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.0	S 16 08.7
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Bellatrix	278 22.5	N 06 22.3	Antares	112 16.2	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 10.7	S 69 04.1
Alnilam	275 37.4	S 01 11.2	Sabik	102 03.0	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.7	S 37 07.3
Canopus	263 51.9	S 52 42.6	Rasalhague	95 58.9	N 12 32.5
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Adhara	255 05.5	S 29 00.4	Kaus Australis	83 32.8	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.7	N 38 48.1
Procyon	244 50.2	N 05 10.0	Nunki	75 48.1	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.4	N 28 00.6
Avior	234 14.1	S 59 35.3	Altair	62 00.5	N 08 55.8
Suhail	222 45.9	S 43 31.9	Peacock	53 06.3	S 56 39.3
Miaplacidus	221 37.2	S 69 49.1	Deneb	49 26.3	N 45 22.2
Alphard	217 47.4	S 08 46.1	Enif	33 39.1	N 09 59.3
Regulus	207 34.0	N 11 50.6	Alnair	27 33.3	S 46 50.5
Dubhe	193 40.4	N 61 36.7	Formalhaut	15 14.9	S 29 29.5
Denebola	182 24.6	N 14 25.8	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 21 of 365 January 21			day 22 of 365 January 22			day 23 of 365 January 23			day 24 of 365 January 24			day 25 of 365 January 25			UT
	GHA		ddGHA	GHA		ddGHA	GHA		ddGHA	GHA		ddGHA	GHA		ddGHA	
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	120	36.8	+02.4	121	35.9	+02.5	122	35.0	+02.5	123	34.2	+02.4	124	33.3	+02.5	00
01	135	39.2	+02.5	136	38.4	+02.4	137	37.5	+02.5	138	36.6	+02.5	139	35.8	+02.5	01
02	150	41.7	+02.5	151	40.8	+02.5	152	40.0	+02.4	153	39.1	+02.5	154	38.3	+02.4	02
03	165	44.2	+02.4	166	43.3	+02.5	167	42.4	+02.5	168	41.6	+02.4	169	40.7	+02.5	03
04	180	46.6	+02.5	181	45.8	+02.4	182	44.9	+02.5	183	44.0	+02.5	184	43.2	+02.4	04
05	195	49.1	+02.4	196	48.2	+02.5	197	47.4	+02.4	198	46.5	+02.5	199	45.6	+02.5	05
06	210	51.5	+02.5	211	50.7	+02.5	212	49.8	+02.5	213	49.0	+02.4	214	48.1	+02.5	06
07	225	54.0	+02.5	226	53.2	+02.4	227	52.3	+02.5	228	51.4	+02.5	229	50.6	+02.4	07
08	240	56.5	+02.4	241	55.6	+02.5	242	54.8	+02.4	243	53.9	+02.5	244	53.0	+02.5	08
09	255	58.9	+02.5	256	58.1	+02.4	257	57.2	+02.5	258	56.4	+02.4	259	55.5	+02.5	09
10	271	01.4	+02.5	272	00.5	+02.5	272	59.7	+02.4	273	58.8	+02.5	274	58.0	+02.4	10
11	286	03.9	+02.4	287	03.0	+02.5	288	02.1	+02.5	289	01.3	+02.5	290	00.4	+02.5	11
12	301	06.3	+02.5	302	05.5	+02.4	303	04.6	+02.5	304	03.8	+02.4	305	02.9	+02.5	12
13	316	08.8	+02.5	317	07.9	+02.5	318	07.1	+02.4	319	06.2	+02.5	320	05.4	+02.4	13
14	331	11.3	+02.4	332	10.4	+02.5	333	09.5	+02.5	334	08.7	+02.4	335	07.8	+02.5	14
15	346	13.7	+02.5	347	12.9	+02.4	348	12.0	+02.5	349	11.1	+02.5	350	10.3	+02.4	15
16	1	16.2	+02.5	2	15.3	+02.5	3	14.5	+02.4	4	13.6	+02.5	5	12.7	+02.5	16
17	16	18.7	+02.4	17	17.8	+02.5	18	16.9	+02.5	19	16.1	+02.4	20	15.2	+02.5	17
18	31	21.1	+02.5	32	20.3	+02.4	33	19.4	+02.5	34	18.5	+02.5	35	17.7	+02.4	18
19	46	23.6	+02.4	47	22.7	+02.5	48	21.9	+02.4	49	21.0	+02.5	50	20.1	+02.5	19
20	61	26.0	+02.5	62	25.2	+02.4	63	24.3	+02.5	64	23.5	+02.4	65	22.6	+02.5	20
21	76	28.5	+02.5	77	27.6	+02.5	78	26.8	+02.5	79	25.9	+02.5	80	25.1	+02.4	21
22	91	31.0	+02.4	92	30.1	+02.5	93	29.3	+02.4	94	28.4	+02.5	95	27.5	+02.5	22
23	106	33.4	+02.5	107	32.6	+02.4	108	31.7	+02.5	109	30.9	+02.4	110	30.0	+02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.0	N 29	13.9	Gienah	175	43.3	S 17	40.9
Ankaa	353	07.4	S 42	10.3	Acrux	172	59.8	S 63	14.0
Schedir	349	31.3	N 56	40.7	Gacrux	171	51.5	S 57	14.9
Diphda	348	47.4	S 17	51.1	Alioth	166	12.9	N 55	49.1
Achernar	335	20.2	S 57	06.8	Spica	158	22.2	S 11	17.5
Hamal	327	51.2	N 23	35.0	Alkaid	152	51.9	N 49	11.0
Polaris	313	53.5	N 89	22.5	Hadar	148	36.0	S 60	29.4
Acamar	315	11.6	S 40	12.5	Menkent	147	57.3	S 36	29.2
Menkar	314	06.0	N 04	11.3	Arcturus	145	47.5	N 19	03.7
Mirfak	308	28.0	N 49	57.2	Rigel Kentaurus	139	37.5	S 60	56.3
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	56.0	S 16	08.7
Capella	280	21.5	N 46	01.7	Kocab	137	20.0	N 74	02.7
Rigel	281	03.6	S 08	10.4	Alphecca	126	03.9	N 26	37.6
Bellatrix	278	22.6	N 06	22.3	Antares	112	16.1	S 26	29.2
Elnath	278	01.5	N 28	37.8	Atria	107	10.7	S 69	04.1
Alnilam	275	37.4	S 01	11.2	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	51.8	N 07	24.7	Shaula	96	10.7	S 37	07.2
Canopus	263	51.9	S 52	42.6	Rasalhague	95	58.8	N 12	32.4
Sirius	258	25.7	S 16	44.6	Etamin	90	42.6	N 51	28.9
Adhara	255	05.5	S 29	00.4	Kaus Australis	83	32.8	S 34	22.3
Castor	245	56.5	N 31	50.0	Vega	80	33.7	N 38	48.1
Procyon	244	50.2	N 05	10.0	Nunki	75	48.1	S 26	15.9
Pollux	243	16.5	N 27	57.9	Albireo	67	04.4	N 28	00.6
Avior	234	14.1	S 59	35.3	Altair	62	00.5	N 08	55.8
Suhail	222	45.8	S 43	32.0	Peacock	53	06.3	S 56	39.3
Miaplacidus	221	37.2	S 69	49.1	Deneb	49	26.3	N 45	22.1
Alphard	217	47.4	S 08	46.1	Enif	33	39.1	N 09	59.3
Regulus	207	34.0	N 11	50.6	Alnair	27	33.3	S 46	50.5
Dubhe	193	40.3	N 61	36.7	Formalhaut	15	14.9	S 29	29.5
Denebola	182	24.5	N 14	25.8	Markab	13	30.1	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 26 of 365 <i>January 26</i>			day 27 of 365 <i>January 27</i>			day 28 of 365 <i>January 28</i>			day 29 of 365 <i>January 29</i>			day 30 of 365 <i>January 30</i>			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	125	32.5	+02.4	126	31.6	+02.5	127	30.7	+02.5	128	29.9	+02.4	129	29.0	+02.5	00
01	140	34.9	+02.5	141	34.1	+02.4	142	33.2	+02.5	143	32.3	+02.5	144	31.5	+02.5	01
02	155	37.4	+02.5	156	36.5	+02.5	157	35.7	+02.4	158	34.8	+02.5	159	34.0	+02.4	02
03	170	39.9	+02.4	171	39.0	+02.5	172	38.1	+02.5	173	37.3	+02.4	174	36.4	+02.5	03
04	185	42.3	+02.5	186	41.5	+02.4	187	40.6	+02.5	188	39.7	+02.5	189	38.9	+02.4	04
05	200	44.8	+02.4	201	43.9	+02.5	202	43.1	+02.4	203	42.2	+02.5	204	41.3	+02.5	05
06	215	47.2	+02.5	216	46.4	+02.5	217	45.5	+02.5	218	44.7	+02.4	219	43.8	+02.5	06
07	230	49.7	+02.5	231	48.9	+02.4	232	48.0	+02.5	233	47.1	+02.5	234	46.3	+02.4	07
08	245	52.2	+02.4	246	51.3	+02.5	247	50.5	+02.4	248	49.6	+02.5	249	48.7	+02.5	08
09	260	54.6	+02.5	261	53.8	+02.4	262	52.9	+02.5	263	52.1	+02.4	264	51.2	+02.5	09
10	275	57.1	+02.5	276	56.2	+02.5	277	55.4	+02.5	278	54.5	+02.5	279	53.7	+02.4	10
11	290	59.6	+02.4	291	58.7	+02.5	292	57.9	+02.4	293	57.0	+02.5	294	56.1	+02.5	11
12	306	02.0	+02.5	307	01.2	+02.4	308	00.3	+02.5	308	59.5	+02.4	309	58.6	+02.5	12
13	321	04.5	+02.5	322	03.6	+02.5	323	02.8	+02.4	324	01.9	+02.5	325	01.1	+02.4	13
14	336	07.0	+02.4	337	06.1	+02.5	338	05.2	+02.5	339	04.4	+02.4	340	03.5	+02.5	14
15	351	09.4	+02.5	352	08.6	+02.4	353	07.7	+02.5	354	06.8	+02.5	355	06.0	+02.5	15
16	6	11.9	+02.5	7	11.0	+02.5	8	10.2	+02.4	9	09.3	+02.5	10	08.5	+02.4	16
17	21	14.4	+02.4	22	13.5	+02.5	23	12.6	+02.5	24	11.8	+02.4	25	10.9	+02.5	17
18	36	16.8	+02.5	37	16.0	+02.4	38	15.1	+02.5	39	14.2	+02.5	40	13.4	+02.4	18
19	51	19.3	+02.4	52	18.4	+02.5	53	17.6	+02.4	54	16.7	+02.5	55	15.8	+02.5	19
20	66	21.7	+02.5	67	20.9	+02.5	68	20.0	+02.5	69	19.2	+02.4	70	18.3	+02.5	20
21	81	24.2	+02.5	82	23.4	+02.4	83	22.5	+02.5	84	21.6	+02.5	85	20.8	+02.4	21
22	96	26.7	+02.4	97	25.8	+02.5	98	25.0	+02.4	99	24.1	+02.5	100	23.2	+02.5	22
23	111	29.1	+02.5	112	28.3	+02.4	113	27.4	+02.5	114	26.6	+02.4	115	25.7	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.9	Gienah	175 43.3	S 17 40.9
Ankaa	353 07.4	S 42 10.3	Acrux	172 59.7	S 63 14.1
Schedir	349 31.3	N 56 40.7	Gacrux	171 51.4	S 57 14.9
Diphda	348 47.5	S 17 51.1	Alioth	166 12.8	N 55 49.1
Achernar	335 20.3	S 57 06.8	Spica	158 22.2	S 11 17.5
Hamal	327 51.2	N 23 35.0	Alkaid	152 51.8	N 49 11.0
Polaris	313 55.6	N 89 22.5	Hadar	148 35.9	S 60 29.4
Acamar	315 11.6	S 40 12.5	Menkent	147 57.2	S 36 29.2
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.4	N 19 03.7
Mirfak	308 28.0	N 49 57.2	Rigel Kentaurus	139 37.4	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.0	S 16 08.7
Capella	280 21.5	N 46 01.7	Kocab	137 19.9	N 74 02.7
Rigel	281 03.6	S 08 10.4	Alphecca	126 03.9	N 26 37.6
Bellatrix	278 22.6	N 06 22.3	Antares	112 16.1	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 10.6	S 69 04.1
Alnilam	275 37.4	S 01 11.2	Sabik	102 03.0	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.6	S 37 07.2
Canopus	263 51.9	S 52 42.7	Rasalhague	95 58.8	N 12 32.4
Sirius	258 25.7	S 16 44.6	Etamin	90 42.6	N 51 28.9
Adhara	255 05.5	S 29 00.4	Kaus Australis	83 32.8	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.7	N 38 48.1
Procyon	244 50.2	N 05 10.0	Nunki	75 48.0	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.4	N 28 00.6
Avior	234 14.1	S 59 35.4	Altair	62 00.4	N 08 55.8
Suhail	222 45.8	S 43 32.0	Peacock	53 06.2	S 56 39.3
Miaplacidus	221 37.2	S 69 49.1	Deneb	49 26.3	N 45 22.1
Alphard	217 47.4	S 08 46.1	Enif	33 39.1	N 09 59.3
Regulus	207 34.0	N 11 50.6	Alnair	27 33.3	S 46 50.5
Dubhe	193 40.3	N 61 36.7	Formalhaut	15 14.9	S 29 29.5
Denebola	182 24.5	N 14 25.8	Markab	13 30.1	N 15 20.4

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UT	day 31 of 365 <i>January 31</i>			day 32 of 365 <i>February 1</i>			day 33 of 365 <i>February 2</i>			day 34 of 365 <i>February 3</i>			day 35 of 365 <i>February 4</i>			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	130	28.2	+02.4	131	27.3	+02.5	132	26.4	+02.5	133	25.6	+02.4	134	24.7	+02.5	00
01	145	30.6	+02.5	146	29.8	+02.4	147	28.9	+02.5	148	28.0	+02.5	149	27.2	+02.4	01
02	160	33.1	+02.5	161	32.2	+02.5	162	31.4	+02.4	163	30.5	+02.5	164	29.6	+02.5	02
03	175	35.6	+02.4	176	34.7	+02.5	177	33.8	+02.5	178	33.0	+02.4	179	32.1	+02.5	03
04	190	38.0	+02.5	191	37.2	+02.4	192	36.3	+02.5	193	35.4	+02.5	194	34.6	+02.4	04
05	205	40.5	+02.4	206	39.6	+02.5	207	38.8	+02.4	208	37.9	+02.5	209	37.0	+02.5	05
06	220	42.9	+02.5	221	42.1	+02.5	222	41.2	+02.5	223	40.4	+02.4	224	39.5	+02.5	06
07	235	45.4	+02.5	236	44.6	+02.4	237	43.7	+02.5	238	42.8	+02.5	239	42.0	+02.4	07
08	250	47.9	+02.4	251	47.0	+02.5	252	46.2	+02.4	253	45.3	+02.5	254	44.4	+02.5	08
09	265	50.3	+02.5	266	49.5	+02.4	267	48.6	+02.5	268	47.8	+02.4	269	46.9	+02.5	09
10	280	52.8	+02.5	281	51.9	+02.5	282	51.1	+02.4	283	50.2	+02.5	284	49.4	+02.4	10
11	295	55.3	+02.4	296	54.4	+02.5	297	53.5	+02.5	298	52.7	+02.4	299	51.8	+02.5	11
12	310	57.7	+02.5	311	56.9	+02.4	312	56.0	+02.5	313	55.1	+02.5	314	54.3	+02.4	12
13	326	00.2	+02.5	326	59.3	+02.5	327	58.5	+02.4	328	57.6	+02.5	329	56.7	+02.5	13
14	341	02.7	+02.4	342	01.8	+02.5	343	00.9	+02.5	344	00.1	+02.4	344	59.2	+02.5	14
15	356	05.1	+02.5	357	04.3	+02.4	358	03.4	+02.5	359	02.5	+02.5	0	01.7	+02.4	15
16	11	07.6	+02.5	12	06.7	+02.5	13	05.9	+02.4	14	05.0	+02.5	15	04.1	+02.5	16
17	26	10.1	+02.4	27	09.2	+02.5	28	08.3	+02.5	29	07.5	+02.4	30	06.6	+02.5	17
18	41	12.5	+02.5	42	11.7	+02.4	43	10.8	+02.5	44	09.9	+02.5	45	09.1	+02.4	18
19	56	15.0	+02.4	57	14.1	+02.5	58	13.3	+02.4	59	12.4	+02.5	60	11.5	+02.5	19
20	71	17.4	+02.5	72	16.6	+02.4	73	15.7	+02.5	74	14.9	+02.4	75	14.0	+02.5	20
21	86	19.9	+02.5	87	19.0	+02.5	88	18.2	+02.4	89	17.3	+02.5	90	16.5	+02.4	21
22	101	22.4	+02.4	102	21.5	+02.5	103	20.6	+02.5	104	19.8	+02.5	105	18.9	+02.5	22
23	116	24.8	+02.5	117	24.0	+02.4	118	23.1	+02.5	119	22.3	+02.4	120	21.4	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.9	Gienah	175 43.3	S 17 40.9
Ankaa	353 07.4	S 42 10.3	Acrux	172 59.7	S 63 14.1
Schedir	349 31.3	N 56 40.7	Gacrux	171 51.3	S 57 14.9
Diphda	348 47.5	S 17 51.1	Alioth	166 12.7	N 55 49.1
Achernar	335 20.3	S 57 06.8	Spica	158 22.1	S 11 17.6
Hamal	327 51.2	N 23 35.0	Alkaid	152 51.8	N 49 10.9
Polaris	313 58.0	N 89 22.5	Hadar	148 35.8	S 60 29.4
Acamar	315 11.6	S 40 12.5	Menkent	147 57.2	S 36 29.2
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.4	N 19 03.7
Mirfak	308 28.1	N 49 57.2	Rigel Kentaurus	139 37.3	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 55.9	S 16 08.7
Capella	280 21.5	N 46 01.7	Kocab	137 19.8	N 74 02.7
Rigel	281 03.6	S 08 10.4	Alphecca	126 03.8	N 26 37.6
Bellatrix	278 22.6	N 06 22.3	Antares	112 16.0	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 10.5	S 69 04.1
Alnilam	275 37.4	S 01 11.2	Sabik	102 02.9	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.6	S 37 07.2
Canopus	263 51.9	S 52 42.7	Rasalhague	95 58.8	N 12 32.4
Sirius	258 25.7	S 16 44.6	Etamin	90 42.6	N 51 28.8
Adhara	255 05.5	S 29 00.5	Kaus Australis	83 32.7	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.6	N 38 48.1
Procyon	244 50.2	N 05 10.0	Nunki	75 48.0	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.4	N 28 00.6
Avior	234 14.1	S 59 35.4	Altair	62 00.4	N 08 55.8
Suhail	222 45.8	S 43 32.0	Peacock	53 06.2	S 56 39.3
Miaplacidus	221 37.2	S 69 49.2	Deneb	49 26.2	N 45 22.1
Alphard	217 47.4	S 08 46.1	Enif	33 39.1	N 09 59.3
Regulus	207 33.9	N 11 50.6	Alnair	27 33.3	S 46 50.5
Dubhe	193 40.2	N 61 36.7	Formalhaut	15 14.9	S 29 29.5
Denebola	182 24.5	N 14 25.8	Markab	13 30.1	N 15 20.4

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UT	day 36 of 365 February 5		day 37 of 365 February 6		day 38 of 365 February 7		day 39 of 365 February 8		day 40 of 365 February 9		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	135 23.9	+02.4	136 23.0	+02.5	137 22.1	+02.5	138 21.3	+02.4	139 20.4	+02.5	00
01	150 26.3	+02.5	151 25.5	+02.4	152 24.6	+02.5	153 23.7	+02.5	154 22.9	+02.4	01
02	165 28.8	+02.4	166 27.9	+02.5	167 27.1	+02.4	168 26.2	+02.5	169 25.3	+02.5	02
03	180 31.2	+02.5	181 30.4	+02.4	182 29.5	+02.5	183 28.7	+02.4	184 27.8	+02.5	03
04	195 33.7	+02.5	196 32.8	+02.5	197 32.0	+02.5	198 31.1	+02.5	199 30.3	+02.4	04
05	210 36.2	+02.4	211 35.3	+02.5	212 34.5	+02.4	213 33.6	+02.5	214 32.7	+02.5	05
06	225 38.6	+02.5	226 37.8	+02.4	227 36.9	+02.5	228 36.1	+02.4	229 35.2	+02.5	06
07	240 41.1	+02.5	241 40.2	+02.5	242 39.4	+02.4	243 38.5	+02.5	244 37.7	+02.4	07
08	255 43.6	+02.4	256 42.7	+02.5	257 41.8	+02.5	258 41.0	+02.5	259 40.1	+02.5	08
09	270 46.0	+02.5	271 45.2	+02.4	272 44.3	+02.5	273 43.5	+02.4	274 42.6	+02.5	09
10	285 48.5	+02.5	286 47.6	+02.5	287 46.8	+02.4	288 45.9	+02.5	289 45.1	+02.4	10
11	300 51.0	+02.4	301 50.1	+02.5	302 49.2	+02.5	303 48.4	+02.4	304 47.5	+02.5	11
12	315 53.4	+02.5	316 52.6	+02.4	317 51.7	+02.5	318 50.8	+02.5	319 50.0	+02.4	12
13	330 55.9	+02.5	331 55.0	+02.5	332 54.2	+02.4	333 53.3	+02.5	334 52.4	+02.5	13
14	345 58.4	+02.4	346 57.5	+02.5	347 56.6	+02.5	348 55.8	+02.4	349 54.9	+02.5	14
15	1 00.8	+02.5	1 60.0	+02.4	2 59.1	+02.5	3 58.2	+02.5	4 57.4	+02.4	15
16	16 03.3	+02.4	17 02.4	+02.5	18 01.6	+02.4	19 00.7	+02.5	19 59.8	+02.5	16
17	31 05.7	+02.5	32 04.9	+02.4	33 04.0	+02.5	34 03.2	+02.4	35 02.3	+02.5	17
18	46 08.2	+02.5	47 07.3	+02.5	48 06.5	+02.5	49 05.6	+02.5	50 04.8	+02.4	18
19	61 10.7	+02.4	62 09.8	+02.5	63 09.0	+02.4	64 08.1	+02.5	65 07.2	+02.5	19
20	76 13.1	+02.5	77 12.3	+02.4	78 11.4	+02.5	79 10.6	+02.4	80 09.7	+02.5	20
21	91 15.6	+02.5	92 14.7	+02.5	93 13.9	+02.4	94 13.0	+02.5	95 12.2	+02.4	21
22	106 18.1	+02.4	107 17.2	+02.5	108 16.3	+02.5	109 15.5	+02.5	110 14.6	+02.5	22
23	121 20.5	+02.5	122 19.7	+02.4	123 18.8	+02.5	124 18.0	+02.4	125 17.1	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.9	Gienah	175 43.2	S 17 40.9
Ankaa	353 07.4	S 42 10.3	Acrux	172 59.6	S 63 14.1
Schedir	349 31.4	N 56 40.7	Gacrux	171 51.3	S 57 15.0
Diphda	348 47.5	S 17 51.1	Alioth	166 12.7	N 55 49.1
Achernar	335 20.4	S 57 06.8	Spica	158 22.1	S 11 17.6
Hamal	327 51.3	N 23 35.0	Alkaid	152 51.7	N 49 10.9
Polaris	314 00.5	N 89 22.5	Hadar	148 35.8	S 60 29.4
Acamar	315 11.7	S 40 12.5	Menkent	147 57.1	S 36 29.2
Menkar	314 06.1	N 04 11.3	Arcturus	145 47.4	N 19 03.7
Mirfak	308 28.1	N 49 57.2	Rigel Kentaurus	139 37.2	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 55.9	S 16 08.8
Capella	280 21.5	N 46 01.7	Kocab	137 19.7	N 74 02.7
Rigel	281 03.6	S 08 10.5	Alphecca	126 03.8	N 26 37.6
Bellatrix	278 22.6	N 06 22.3	Antares	112 16.0	S 26 29.2
Elnath	278 01.6	N 28 37.8	Atria	107 10.4	S 69 04.1
Alnilam	275 37.4	S 01 11.2	Sabik	102 02.9	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.5	S 37 07.2
Canopus	263 51.9	S 52 42.7	Rasalhague	95 58.7	N 12 32.4
Sirius	258 25.7	S 16 44.6	Etamin	90 42.5	N 51 28.8
Adhara	255 05.5	S 29 00.5	Kaus Australis	83 32.7	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.6	N 38 48.0
Procyon	244 50.2	N 05 10.0	Nunki	75 48.0	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.4	N 28 00.5
Avior	234 14.1	S 59 35.4	Altair	62 00.4	N 08 55.8
Suhail	222 45.8	S 43 32.1	Peacock	53 06.2	S 56 39.2
Miaplacidus	221 37.2	S 69 49.2	Deneb	49 26.2	N 45 22.1
Alphard	217 47.4	S 08 46.1	Enif	33 39.1	N 09 59.3
Regulus	207 33.9	N 11 50.6	Alnair	27 33.3	S 46 50.4
Dubhe	193 40.2	N 61 36.7	Formalhaut	15 14.9	S 29 29.5
Denebola	182 24.4	N 14 25.8	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 41 of 365 February 10		day 42 of 365 February 11		day 43 of 365 February 12		day 44 of 365 February 13		day 45 of 365 February 14		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	140	19.6 +02.4	141	18.7 +02.5	142	17.8 +02.5	143	17.0 +02.4	144	16.1 +02.5	00
01	155	22.0 +02.5	156	21.2 +02.4	157	20.3 +02.5	158	19.4 +02.5	159	18.6 +02.4	01
02	170	24.5 +02.4	171	23.6 +02.5	172	22.8 +02.4	173	21.9 +02.5	174	21.0 +02.5	02
03	185	26.9 +02.5	186	26.1 +02.5	187	25.2 +02.5	188	24.4 +02.4	189	23.5 +02.5	03
04	200	29.4 +02.5	201	28.6 +02.4	202	27.7 +02.5	203	26.8 +02.5	204	26.0 +02.4	04
05	215	31.9 +02.4	216	31.0 +02.5	217	30.2 +02.4	218	29.3 +02.5	219	28.4 +02.5	05
06	230	34.3 +02.5	231	33.5 +02.4	232	32.6 +02.5	233	31.8 +02.4	234	30.9 +02.5	06
07	245	36.8 +02.5	246	35.9 +02.5	247	35.1 +02.4	248	34.2 +02.5	249	33.4 +02.4	07
08	260	39.3 +02.4	261	38.4 +02.5	262	37.5 +02.5	263	36.7 +02.4	264	35.8 +02.5	08
09	275	41.7 +02.5	276	40.9 +02.4	277	40.0 +02.5	278	39.1 +02.5	279	38.3 +02.5	09
10	290	44.2 +02.5	291	43.3 +02.5	292	42.5 +02.4	293	41.6 +02.5	294	40.8 +02.4	10
11	305	46.7 +02.4	306	45.8 +02.5	307	44.9 +02.5	308	44.1 +02.4	309	43.2 +02.5	11
12	320	49.1 +02.5	321	48.3 +02.4	322	47.4 +02.5	323	46.5 +02.5	324	45.7 +02.4	12
13	335	51.6 +02.5	336	50.7 +02.5	337	49.9 +02.4	338	49.0 +02.5	339	48.1 +02.5	13
14	350	54.1 +02.4	351	53.2 +02.5	352	52.3 +02.5	353	51.5 +02.4	354	50.6 +02.5	14
15	5	56.5 +02.5	6	55.7 +02.4	7	54.8 +02.5	8	53.9 +02.5	9	53.1 +02.4	15
16	20	59.0 +02.4	21	58.1 +02.5	22	57.3 +02.4	23	56.4 +02.5	24	55.5 +02.5	16
17	36	01.4 +02.5	37	00.6 +02.4	37	59.7 +02.5	38	58.9 +02.4	39	58.0 +02.5	17
18	51	03.9 +02.5	52	03.0 +02.5	53	02.2 +02.5	54	01.3 +02.5	55	00.5 +02.4	18
19	66	06.4 +02.4	67	05.5 +02.5	68	04.7 +02.4	69	03.8 +02.5	70	02.9 +02.5	19
20	81	08.8 +02.5	82	08.0 +02.4	83	07.1 +02.5	84	06.3 +02.4	85	05.4 +02.5	20
21	96	11.3 +02.5	97	10.4 +02.5	98	09.6 +02.4	99	08.7 +02.5	100	07.9 +02.4	21
22	111	13.8 +02.4	112	12.9 +02.5	113	12.0 +02.5	114	11.2 +02.4	115	10.3 +02.5	22
23	126	16.2 +02.5	127	15.4 +02.4	128	14.5 +02.5	129	13.6 +02.5	130	12.8 +02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.8	Gienah	175 43.2	S 17 40.9
Ankaa	353 07.4	S 42 10.2	Acrux	172 59.5	S 63 14.1
Schedir	349 31.4	N 56 40.7	Gacrux	171 51.2	S 57 15.0
Diphda	348 47.5	S 17 51.1	Alioth	166 12.6	N 55 49.1
Achernar	335 20.4	S 57 06.8	Spica	158 22.0	S 11 17.6
Hamal	327 51.3	N 23 35.0	Alkaid	152 51.7	N 49 10.9
Polaris	314 02.6	N 89 22.5	Hadar	148 35.7	S 60 29.4
Acamar	315 11.7	S 40 12.5	Menkent	147 57.1	S 36 29.2
Menkar	314 06.1	N 04 11.3	Arcturus	145 47.3	N 19 03.7
Mirfak	308 28.1	N 49 57.2	Rigel Kentaurus	139 37.1	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 55.8	S 16 08.8
Capella	280 21.6	N 46 01.7	Kocab	137 19.6	N 74 02.7
Rigel	281 03.6	S 08 10.5	Alphecca	126 03.7	N 26 37.6
Bellatrix	278 22.6	N 06 22.3	Antares	112 16.0	S 26 29.2
Elnath	278 01.6	N 28 37.8	Atria	107 10.3	S 69 04.1
Alnilam	275 37.4	S 01 11.2	Sabik	102 02.9	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.5	S 37 07.2
Canopus	263 52.0	S 52 42.7	Rasalhague	95 58.7	N 12 32.4
Sirius	258 25.7	S 16 44.6	Etamin	90 42.5	N 51 28.8
Adhara	255 05.5	S 29 00.5	Kaus Australis	83 32.7	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.6	N 38 48.0
Procyon	244 50.2	N 05 10.0	Nunki	75 47.9	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.3	N 28 00.5
Avior	234 14.1	S 59 35.5	Altair	62 00.4	N 08 55.8
Suhail	222 45.8	S 43 32.1	Peacock	53 06.1	S 56 39.2
Miaplacidus	221 37.2	S 69 49.2	Deneb	49 26.2	N 45 22.0
Alphard	217 47.3	S 08 46.1	Enif	33 39.0	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.3	S 46 50.4
Dubhe	193 40.1	N 61 36.7	Formalhaut	15 14.9	S 29 29.4
Denebola	182 24.4	N 14 25.8	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 46 of 365 February 15			day 47 of 365 February 16			day 48 of 365 February 17			day 49 of 365 February 18			day 50 of 365 February 19			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	
00	145	15.2	+02.5	146	14.4	+02.4	147	13.5	+02.5	148	12.7	+02.4	149	11.8	+02.5	00
01	160	17.7	+02.5	161	16.8	+02.5	162	16.0	+02.4	163	15.1	+02.5	164	14.3	+02.4	01
02	175	20.2	+02.4	176	19.3	+02.5	177	18.4	+02.5	178	17.6	+02.5	179	16.7	+02.5	02
03	190	22.6	+02.5	191	21.8	+02.4	192	20.9	+02.5	193	20.1	+02.4	194	19.2	+02.5	03
04	205	25.1	+02.5	206	24.2	+02.5	207	23.4	+02.4	208	22.5	+02.5	209	21.7	+02.4	04
05	220	27.6	+02.4	221	26.7	+02.5	222	25.8	+02.5	223	25.0	+02.4	224	24.1	+02.5	05
06	235	30.0	+02.5	236	29.2	+02.4	237	28.3	+02.5	238	27.4	+02.5	239	26.6	+02.4	06
07	250	32.5	+02.5	251	31.6	+02.5	252	30.8	+02.4	253	29.9	+02.5	254	29.0	+02.5	07
08	265	35.0	+02.4	266	34.1	+02.5	267	33.2	+02.5	268	32.4	+02.4	269	31.5	+02.5	08
09	280	37.4	+02.5	281	36.6	+02.4	282	35.7	+02.5	283	34.8	+02.5	284	34.0	+02.4	09
10	295	39.9	+02.5	296	39.0	+02.5	297	38.2	+02.4	298	37.3	+02.5	299	36.4	+02.5	10
11	310	42.4	+02.4	311	41.5	+02.5	312	40.6	+02.5	313	39.8	+02.4	314	38.9	+02.5	11
12	325	44.8	+02.5	326	44.0	+02.4	327	43.1	+02.5	328	42.2	+02.5	329	41.4	+02.4	12
13	340	47.3	+02.4	341	46.4	+02.5	342	45.6	+02.4	343	44.7	+02.5	344	43.8	+02.5	13
14	355	49.7	+02.5	356	48.9	+02.4	357	48.0	+02.5	358	47.2	+02.4	359	46.3	+02.5	14
15	10	52.2	+02.5	11	51.3	+02.5	12	50.5	+02.4	13	49.6	+02.5	14	48.8	+02.4	15
16	25	54.7	+02.4	26	53.8	+02.5	27	52.9	+02.5	28	52.1	+02.4	29	51.2	+02.5	16
17	40	57.1	+02.5	41	56.3	+02.4	42	55.4	+02.5	43	54.5	+02.5	44	53.7	+02.5	17
18	55	59.6	+02.5	56	58.7	+02.5	57	57.9	+02.4	58	57.0	+02.5	59	56.2	+02.4	18
19	71	02.1	+02.4	72	01.2	+02.5	73	00.3	+02.5	73	59.5	+02.4	74	58.6	+02.5	19
20	86	04.5	+02.5	87	03.7	+02.4	88	02.8	+02.5	89	01.9	+02.5	90	01.1	+02.4	20
21	101	07.0	+02.5	102	06.1	+02.5	103	05.3	+02.4	104	04.4	+02.5	105	03.5	+02.5	21
22	116	09.5	+02.4	117	08.6	+02.5	118	07.7	+02.5	119	06.9	+02.4	120	06.0	+02.5	22
23	131	11.9	+02.5	132	11.1	+02.4	133	10.2	+02.5	134	09.3	+02.5	135	08.5	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 35.0	N 29 13.8	Gienah	175 43.2	S 17 41.0
Ankaa	353 07.5	S 42 10.2	Acrux	172 59.5	S 63 14.2
Schedir	349 31.4	N 56 40.7	Gacrux	171 51.2	S 57 15.0
Diphda	348 47.5	S 17 51.1	Alioth	166 12.6	N 55 49.1
Achernar	335 20.4	S 57 06.8	Spica	158 22.0	S 11 17.6
Hamal	327 51.3	N 23 35.0	Alkaid	152 51.6	N 49 10.9
Polaris	314 05.3	N 89 22.5	Hadar	148 35.6	S 60 29.4
Acamar	315 11.7	S 40 12.5	Menkent	147 57.0	S 36 29.3
Menkar	314 06.1	N 04 11.3	Arcturus	145 47.3	N 19 03.7
Mirfak	308 28.2	N 49 57.2	Rigel Kentaurus	139 37.1	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 55.8	S 16 08.8
Capella	280 21.6	N 46 01.7	Kocab	137 19.5	N 74 02.7
Rigel	281 03.6	S 08 10.5	Alphecca	126 03.7	N 26 37.5
Bellatrix	278 22.6	N 06 22.3	Antares	112 15.9	S 26 29.2
Elnath	278 01.6	N 28 37.9	Atria	107 10.2	S 69 04.1
Alnilam	275 37.5	S 01 11.2	Sabik	102 02.8	S 15 45.5
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.4	S 37 07.2
Canopus	263 52.0	S 52 42.7	Rasalhague	95 58.7	N 12 32.4
Sirius	258 25.7	S 16 44.7	Etamin	90 42.4	N 51 28.8
Adhara	255 05.5	S 29 00.5	Kaus Australis	83 32.6	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.5	N 38 48.0
Procyon	244 50.2	N 05 10.0	Nunki	75 47.9	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.3	N 28 00.5
Avior	234 14.1	S 59 35.5	Altair	62 00.3	N 08 55.8
Suhail	222 45.8	S 43 32.1	Peacock	53 06.1	S 56 39.2
Miaplacidus	221 37.2	S 69 49.3	Deneb	49 26.2	N 45 22.0
Alphard	217 47.3	S 08 46.2	Enif	33 39.0	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.3	S 46 50.4
Dubhe	193 40.1	N 61 36.8	Formalhaut	15 14.9	S 29 29.4
Denebola	182 24.4	N 14 25.8	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 51 of 365 February 20			day 52 of 365 February 21			day 53 of 365 February 22			day 54 of 365 February 23			day 55 of 365 February 24			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	
00	150	10.9	+02.5	151	10.1	+02.4	152	09.2	+02.5	153	08.4	+02.4	154	07.5	+02.5	00
01	165	13.4	+02.5	166	12.5	+02.5	167	11.7	+02.4	168	10.8	+02.5	169	10.0	+02.4	01
02	180	15.9	+02.4	181	15.0	+02.5	182	14.1	+02.5	183	13.3	+02.4	184	12.4	+02.5	02
03	195	18.3	+02.5	196	17.5	+02.4	197	16.6	+02.5	198	15.7	+02.5	199	14.9	+02.5	03
04	210	20.8	+02.5	211	19.9	+02.5	212	19.1	+02.4	213	18.2	+02.5	214	17.4	+02.4	04
05	225	23.3	+02.4	226	22.4	+02.5	227	21.5	+02.5	228	20.7	+02.4	229	19.8	+02.5	05
06	240	25.7	+02.5	241	24.9	+02.4	242	24.0	+02.5	243	23.1	+02.5	244	22.3	+02.4	06
07	255	28.2	+02.4	256	27.3	+02.5	257	26.5	+02.4	258	25.6	+02.5	259	24.7	+02.5	07
08	270	30.6	+02.5	271	29.8	+02.5	272	28.9	+02.5	273	28.1	+02.4	274	27.2	+02.5	08
09	285	33.1	+02.5	286	32.3	+02.4	287	31.4	+02.5	288	30.5	+02.5	289	29.7	+02.4	09
10	300	35.6	+02.4	301	34.7	+02.5	302	33.9	+02.4	303	33.0	+02.5	304	32.1	+02.5	10
11	315	38.0	+02.5	316	37.2	+02.4	317	36.3	+02.5	318	35.5	+02.4	319	34.6	+02.5	11
12	330	40.5	+02.5	331	39.6	+02.5	332	38.8	+02.4	333	37.9	+02.5	334	37.1	+02.4	12
13	345	43.0	+02.4	346	42.1	+02.5	347	41.2	+02.5	348	40.4	+02.5	349	39.5	+02.5	13
14	0	45.4	+02.5	1	44.6	+02.4	2	43.7	+02.5	3	42.9	+02.4	4	42.0	+02.5	14
15	15	47.9	+02.5	16	47.0	+02.5	17	46.2	+02.4	18	45.3	+02.5	19	44.5	+02.4	15
16	30	50.4	+02.4	31	49.5	+02.5	32	48.6	+02.5	33	47.8	+02.4	34	46.9	+02.5	16
17	45	52.8	+02.5	46	52.0	+02.4	47	51.1	+02.5	48	50.2	+02.5	49	49.4	+02.5	17
18	60	55.3	+02.5	61	54.4	+02.5	62	53.6	+02.4	63	52.7	+02.5	64	51.9	+02.4	18
19	75	57.8	+02.4	76	56.9	+02.5	77	56.0	+02.5	78	55.2	+02.4	79	54.3	+02.5	19
20	91	00.2	+02.5	91	59.4	+02.4	92	58.5	+02.5	93	57.6	+02.5	94	56.8	+02.4	20
21	106	02.7	+02.4	107	01.8	+02.5	108	01.0	+02.4	109	00.1	+02.5	109	59.2	+02.5	21
22	121	05.1	+02.5	122	04.3	+02.5	123	03.4	+02.5	124	02.6	+02.4	125	01.7	+02.5	22
23	136	07.6	+02.5	137	06.8	+02.4	138	05.9	+02.5	139	05.0	+02.5	140	04.2	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 35.0	N 29 13.8	Gienah	175 43.2	S 17 41.0
Ankaa	353 07.5	S 42 10.2	Acrux	172 59.5	S 63 14.2
Schedir	349 31.4	N 56 40.7	Gacrux	171 51.1	S 57 15.0
Diphda	348 47.5	S 17 51.1	Alioth	166 12.5	N 55 49.1
Achernar	335 20.5	S 57 06.8	Spica	158 22.0	S 11 17.6
Hamal	327 51.3	N 23 35.0	Alkaid	152 51.6	N 49 11.0
Polaris	314 07.7	N 89 22.5	Hadar	148 35.6	S 60 29.5
Acamar	315 11.7	S 40 12.5	Menkent	147 57.0	S 36 29.3
Menkar	314 06.1	N 04 11.3	Arcturus	145 47.2	N 19 03.7
Mirfak	308 28.2	N 49 57.2	Rigel Kentaurus	139 37.0	S 60 56.4
Aldebaran	290 39.5	N 16 33.7	Zubenelgenubi	136 55.8	S 16 08.8
Capella	280 21.6	N 46 01.7	Kocab	137 19.4	N 74 02.7
Rigel	281 03.7	S 08 10.5	Alphecca	126 03.7	N 26 37.5
Bellatrix	278 22.6	N 06 22.3	Antares	112 15.9	S 26 29.2
Elnath	278 01.6	N 28 37.9	Atria	107 10.1	S 69 04.1
Alnilam	275 37.5	S 01 11.2	Sabik	102 02.8	S 15 45.5
Betelgeuze	270 51.8	N 07 24.6	Shaula	96 10.4	S 37 07.2
Canopus	263 52.0	S 52 42.7	Rasalhague	95 58.6	N 12 32.4
Sirius	258 25.7	S 16 44.7	Etamin	90 42.4	N 51 28.8
Adhara	255 05.5	S 29 00.5	Kaus Australis	83 32.6	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.5	N 38 48.0
Procyon	244 50.2	N 05 10.0	Nunki	75 47.9	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.3	N 28 00.5
Avior	234 14.1	S 59 35.5	Altair	62 00.3	N 08 55.7
Suhail	222 45.8	S 43 32.1	Peacock	53 06.1	S 56 39.2
Miaplacidus	221 37.2	S 69 49.3	Deneb	49 26.2	N 45 22.0
Alphard	217 47.3	S 08 46.2	Enif	33 39.0	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.3	S 46 50.4
Dubhe	193 40.1	N 61 36.8	Formalhaut	15 14.9	S 29 29.4
Denebola	182 24.4	N 14 25.8	Markab	13 30.1	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 56 of 365 February 25			day 57 of 365 February 26			day 58 of 365 February 27			day 59 of 365 February 28			day 60 of 365 March 1			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	° ' "	' "	"	° ' "	' "	"	° ' "	' "	"	° ' "	' "	"	° ' "	' "	"	
00	155	06.6	+02.5	156	05.8	+02.4	157	04.9	+02.5	158	04.1	+02.4	159	03.2	+02.5	00
01	170	09.1	+02.5	171	08.2	+02.5	172	07.4	+02.4	173	06.5	+02.5	174	05.7	+02.4	01
02	185	11.6	+02.4	186	10.7	+02.5	187	09.8	+02.5	188	09.0	+02.4	189	08.1	+02.5	02
03	200	14.0	+02.5	201	13.2	+02.4	202	12.3	+02.5	203	11.4	+02.5	204	10.6	+02.4	03
04	215	16.5	+02.5	216	15.6	+02.5	217	14.8	+02.4	218	13.9	+02.5	219	13.0	+02.5	04
05	230	19.0	+02.4	231	18.1	+02.5	232	17.2	+02.5	233	16.4	+02.4	234	15.5	+02.5	05
06	245	21.4	+02.5	246	20.6	+02.4	247	19.7	+02.5	248	18.8	+02.5	249	18.0	+02.4	06
07	260	23.9	+02.4	261	23.0	+02.5	262	22.2	+02.4	263	21.3	+02.5	264	20.4	+02.5	07
08	275	26.3	+02.5	276	25.5	+02.5	277	24.6	+02.5	278	23.8	+02.4	279	22.9	+02.5	08
09	290	28.8	+02.5	291	28.0	+02.4	292	27.1	+02.5	293	26.2	+02.5	294	25.4	+02.4	09
10	305	31.3	+02.4	306	30.4	+02.5	307	29.6	+02.4	308	28.7	+02.5	309	27.8	+02.5	10
11	320	33.7	+02.5	321	32.9	+02.4	322	32.0	+02.5	323	31.2	+02.4	324	30.3	+02.5	11
12	335	36.2	+02.5	336	35.3	+02.5	337	34.5	+02.4	338	33.6	+02.5	339	32.8	+02.4	12
13	350	38.7	+02.4	351	37.8	+02.5	352	36.9	+02.5	353	36.1	+02.4	354	35.2	+02.5	13
14	5	41.1	+02.5	6	40.3	+02.4	7	39.4	+02.5	8	38.5	+02.5	9	37.7	+02.4	14
15	20	43.6	+02.5	21	42.7	+02.5	22	41.9	+02.4	23	41.0	+02.5	24	40.1	+02.5	15
16	35	46.1	+02.4	36	45.2	+02.5	37	44.3	+02.5	38	43.5	+02.4	39	42.6	+02.5	16
17	50	48.5	+02.5	51	47.7	+02.4	52	46.8	+02.5	53	45.9	+02.5	54	45.1	+02.4	17
18	65	51.0	+02.5	66	50.1	+02.5	67	49.3	+02.4	68	48.4	+02.5	69	47.5	+02.5	18
19	80	53.5	+02.4	81	52.6	+02.5	82	51.7	+02.5	83	50.9	+02.4	84	50.0	+02.5	19
20	95	55.9	+02.5	96	55.1	+02.4	97	54.2	+02.5	98	53.3	+02.5	99	52.5	+02.4	20
21	110	58.4	+02.4	111	57.5	+02.5	112	56.7	+02.4	113	55.8	+02.5	114	54.9	+02.5	21
22	126	00.8	+02.5	126	60.0	+02.4	127	59.1	+02.5	128	58.3	+02.4	129	57.4	+02.5	22
23	141	03.3	+02.5	142	02.4	+02.5	143	01.6	+02.5	144	00.7	+02.5	144	59.9	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 35.0	N 29 13.8	Gienah	175 43.1	S 17 41.0
Ankaa	353 07.5	S 42 10.2	Acrux	172 59.4	S 63 14.2
Schedir	349 31.4	N 56 40.6	Gacrux	171 51.1	S 57 15.1
Diphda	348 47.5	S 17 51.1	Alioth	166 12.5	N 55 49.1
Achernar	335 20.5	S 57 06.8	Spica	158 21.9	S 11 17.6
Hamal	327 51.3	N 23 35.0	Alkaid	152 51.5	N 49 11.0
Polaris	314 09.9	N 89 22.5	Hadar	148 35.5	S 60 29.5
Acamar	315 11.8	S 40 12.5	Menkent	147 57.0	S 36 29.3
Menkar	314 06.1	N 04 11.3	Arcturus	145 47.2	N 19 03.7
Mirfak	308 28.2	N 49 57.2	Rigel Kentaurus	139 36.9	S 60 56.4
Aldebaran	290 39.5	N 16 33.7	Zubenelgenubi	136 55.7	S 16 08.8
Capella	280 21.6	N 46 01.7	Kocab	137 19.3	N 74 02.7
Rigel	281 03.7	S 08 10.5	Alphecca	126 03.6	N 26 37.5
Bellatrix	278 22.6	N 06 22.3	Antares	112 15.8	S 26 29.2
Elnath	278 01.6	N 28 37.9	Atria	107 10.0	S 69 04.1
Alnilam	275 37.5	S 01 11.2	Sabik	102 02.7	S 15 45.5
Betelgeuze	270 51.8	N 07 24.6	Shaula	96 10.3	S 37 07.2
Canopus	263 52.1	S 52 42.8	Rasalhague	95 58.6	N 12 32.4
Sirius	258 25.7	S 16 44.7	Etamin	90 42.3	N 51 28.8
Adhara	255 05.5	S 29 00.5	Kaus Australis	83 32.5	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 33.5	N 38 48.0
Procyon	244 50.2	N 05 10.0	Nunki	75 47.8	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 04.2	N 28 00.5
Avior	234 14.2	S 59 35.6	Altair	62 00.3	N 08 55.7
Suhail	222 45.8	S 43 32.2	Peacock	53 06.0	S 56 39.2
Miaplacidus	221 37.2	S 69 49.3	Deneb	49 26.2	N 45 22.0
Alphard	217 47.3	S 08 46.2	Enif	33 39.0	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.3	S 46 50.4
Dubhe	193 40.0	N 61 36.8	Formalhaut	15 14.9	S 29 29.4
Denebola	182 24.3	N 14 25.8	Markab	13 30.1	N 15 20.4

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UT	day 61 of 365			day 62 of 365			day 63 of 365			day 64 of 365			day 65 of 365			UT
	March 2			March 3			March 4			March 5			March 6			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	160	02.3	+02.5	161	01.5	+02.4	162	00.6	+02.5	162	59.7	+02.5	163	58.9	+02.4	00
01	175	04.8	+02.5	176	03.9	+02.5	177	03.1	+02.4	178	02.2	+02.5	179	01.3	+02.5	01
02	190	07.3	+02.4	191	06.4	+02.5	192	05.5	+02.5	193	04.7	+02.4	194	03.8	+02.5	02
03	205	09.7	+02.5	206	08.9	+02.4	207	08.0	+02.5	208	07.1	+02.5	209	06.3	+02.4	03
04	220	12.2	+02.4	221	11.3	+02.5	222	10.5	+02.4	223	09.6	+02.5	224	08.7	+02.5	04
05	235	14.6	+02.5	236	13.8	+02.4	237	12.9	+02.5	238	12.1	+02.4	239	11.2	+02.5	05
06	250	17.1	+02.5	251	16.2	+02.5	252	15.4	+02.4	253	14.5	+02.5	254	13.7	+02.4	06
07	265	19.6	+02.4	266	18.7	+02.5	267	17.8	+02.5	268	17.0	+02.5	269	16.1	+02.5	07
08	280	22.0	+02.5	281	21.2	+02.4	282	20.3	+02.5	283	19.5	+02.4	284	18.6	+02.5	08
09	295	24.5	+02.5	296	23.6	+02.5	297	22.8	+02.4	298	21.9	+02.5	299	21.1	+02.4	09
10	310	27.0	+02.4	311	26.1	+02.5	312	25.2	+02.5	313	24.4	+02.4	314	23.5	+02.5	10
11	325	29.4	+02.5	326	28.6	+02.4	327	27.7	+02.5	328	26.8	+02.5	329	26.0	+02.4	11
12	340	31.9	+02.5	341	31.0	+02.5	342	30.2	+02.4	343	29.3	+02.5	344	28.4	+02.5	12
13	355	34.4	+02.4	356	33.5	+02.5	357	32.6	+02.5	358	31.8	+02.4	359	30.9	+02.5	13
14	10	36.8	+02.5	11	36.0	+02.4	12	35.1	+02.5	13	34.2	+02.5	14	33.4	+02.4	14
15	25	39.3	+02.4	26	38.4	+02.5	27	37.6	+02.4	28	36.7	+02.5	29	35.8	+02.5	15
16	40	41.7	+02.5	41	40.9	+02.5	42	40.0	+02.5	43	39.2	+02.4	44	38.3	+02.5	16
17	55	44.2	+02.5	56	43.4	+02.4	57	42.5	+02.5	58	41.6	+02.5	59	40.8	+02.4	17
18	70	46.7	+02.4	71	45.8	+02.5	72	45.0	+02.4	73	44.1	+02.5	74	43.2	+02.5	18
19	85	49.1	+02.5	86	48.3	+02.4	87	47.4	+02.5	88	46.6	+02.4	89	45.7	+02.5	19
20	100	51.6	+02.5	101	50.7	+02.5	102	49.9	+02.4	103	49.0	+02.5	104	48.2	+02.4	20
21	115	54.1	+02.4	116	53.2	+02.5	117	52.3	+02.5	118	51.5	+02.4	119	50.6	+02.5	21
22	130	56.5	+02.5	131	55.7	+02.4	132	54.8	+02.5	133	53.9	+02.5	134	53.1	+02.5	22
23	145	59.0	+02.5	146	58.1	+02.5	147	57.3	+02.4	148	56.4	+02.5	149	55.6	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.1	N 29	13.8	Gienah	175	43.1	S 17	41.0
Ankaa	353	07.5	S 42	10.2	Acrux	172	59.4	S 63	14.2
Schedir	349	31.5	N 56	40.6	Gacrux	171	51.1	S 57	15.1
Diphda	348	47.5	S 17	51.1	Alioth	166	12.5	N 55	49.2
Achernar	335	20.5	S 57	06.7	Spica	158	21.9	S 11	17.7
Hamal	327	51.4	N 23	35.0	Alkaid	152	51.5	N 49	11.0
Polaris	314	12.4	N 89	22.5	Hadar	148	35.5	S 60	29.5
Acamar	315	11.8	S 40	12.5	Menkent	147	56.9	S 36	29.3
Menkar	314	06.1	N 04	11.3	Arcturus	145	47.2	N 19	03.7
Mirfak	308	28.3	N 49	57.2	Rigel Kentaurus	139	36.9	S 60	56.4
Aldebaran	290	39.5	N 16	33.7	Zubenelgenubi	136	55.7	S 16	08.8
Capella	280	21.7	N 46	01.7	Kocab	137	19.1	N 74	02.7
Rigel	281	03.7	S 08	10.5	Alphecca	126	03.6	N 26	37.5
Bellatrix	278	22.7	N 06	22.3	Antares	112	15.8	S 26	29.3
Elnath	278	01.6	N 28	37.9	Atria	107	09.9	S 69	04.1
Alnilam	275	37.5	S 01	11.2	Sabik	102	02.7	S 15	45.5
Betelgeuze	270	51.9	N 07	24.6	Shaula	96	10.3	S 37	07.2
Canopus	263	52.1	S 52	42.8	Rasalhague	95	58.5	N 12	32.3
Sirius	258	25.8	S 16	44.7	Etamin	90	42.3	N 51	28.7
Adhara	255	05.6	S 29	00.5	Kaus Australis	83	32.5	S 34	22.3
Castor	245	56.6	N 31	50.1	Vega	80	33.4	N 38	48.0
Procyon	244	50.2	N 05	10.0	Nunki	75	47.8	S 26	15.9
Pollux	243	16.5	N 27	58.0	Albireo	67	04.2	N 28	00.5
Avior	234	14.2	S 59	35.6	Altair	62	00.3	N 08	55.7
Suhail	222	45.8	S 43	32.2	Peacock	53	06.0	S 56	39.1
Miaplacidus	221	37.3	S 69	49.4	Deneb	49	26.1	N 45	22.0
Alphard	217	47.3	S 08	46.2	Enif	33	39.0	N 09	59.3
Regulus	207	33.9	N 11	50.5	Alnair	27	33.3	S 46	50.3
Dubhe	193	40.0	N 61	36.8	Formalhaut	15	14.9	S 29	29.4
Denebola	182	24.3	N 14	25.8	Markab	13	30.1	N 15	20.3

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UT	day 66 of 365		day 67 of 365		day 68 of 365		day 69 of 365		day 70 of 365		UT					
	March 7		March 8		March 9		March 10		March 11							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	164	58.0	+02.5	165	57.2	+02.4	166	56.3	+02.5	167	55.4	+02.5	168	54.6	+02.4	00
01	180	00.5	+02.4	180	59.6	+02.5	181	58.8	+02.4	182	57.9	+02.5	183	57.0	+02.5	01
02	195	02.9	+02.5	196	02.1	+02.5	197	01.2	+02.5	198	00.4	+02.4	198	59.5	+02.5	02
03	210	05.4	+02.5	211	04.6	+02.4	212	03.7	+02.5	213	02.8	+02.5	214	02.0	+02.4	03
04	225	07.9	+02.4	226	07.0	+02.5	227	06.2	+02.4	228	05.3	+02.5	229	04.4	+02.5	04
05	240	10.3	+02.5	241	09.5	+02.4	242	08.6	+02.5	243	07.8	+02.4	244	06.9	+02.5	05
06	255	12.8	+02.5	256	11.9	+02.5	257	11.1	+02.4	258	10.2	+02.5	259	09.4	+02.4	06
07	270	15.3	+02.4	271	14.4	+02.5	272	13.5	+02.5	273	12.7	+02.5	274	11.8	+02.5	07
08	285	17.7	+02.5	286	16.9	+02.4	287	16.0	+02.5	288	15.2	+02.4	289	14.3	+02.5	08
09	300	20.2	+02.5	301	19.3	+02.5	302	18.5	+02.4	303	17.6	+02.5	304	16.8	+02.4	09
10	315	22.7	+02.4	316	21.8	+02.5	317	20.9	+02.5	318	20.1	+02.4	319	19.2	+02.5	10
11	330	25.1	+02.5	331	24.3	+02.4	332	23.4	+02.5	333	22.5	+02.5	334	21.7	+02.4	11
12	345	27.6	+02.5	346	26.7	+02.5	347	25.9	+02.4	348	25.0	+02.5	349	24.1	+02.5	12
13	0	30.1	+02.4	1	29.2	+02.5	2	28.3	+02.5	3	27.5	+02.4	4	26.6	+02.5	13
14	15	32.5	+02.5	16	31.7	+02.4	17	30.8	+02.5	18	29.9	+02.5	19	29.1	+02.4	14
15	30	35.0	+02.4	31	34.1	+02.5	32	33.3	+02.4	33	32.4	+02.5	34	31.5	+02.5	15
16	45	37.4	+02.5	46	36.6	+02.4	47	35.7	+02.5	48	34.9	+02.4	49	34.0	+02.5	16
17	60	39.9	+02.5	61	39.0	+02.5	62	38.2	+02.5	63	37.3	+02.5	64	36.5	+02.4	17
18	75	42.4	+02.4	76	41.5	+02.5	77	40.7	+02.4	78	39.8	+02.5	79	38.9	+02.5	18
19	90	44.8	+02.5	91	44.0	+02.4	92	43.1	+02.5	93	42.3	+02.4	94	41.4	+02.5	19
20	105	47.3	+02.5	106	46.4	+02.5	107	45.6	+02.4	108	44.7	+02.5	109	43.9	+02.4	20
21	120	49.8	+02.4	121	48.9	+02.5	122	48.0	+02.5	123	47.2	+02.4	124	46.3	+02.5	21
22	135	52.2	+02.5	136	51.4	+02.4	137	50.5	+02.5	138	49.6	+02.5	139	48.8	+02.5	22
23	150	54.7	+02.5	151	53.8	+02.5	152	53.0	+02.4	153	52.1	+02.5	154	51.3	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.0	N 29	13.8	Gienah	175	43.1	S 17	41.0
Ankaa	353	07.5	S 42	10.2	Acrux	172	59.3	S 63	14.3
Schedir	349	31.5	N 56	40.6	Gacrux	171	51.0	S 57	15.1
Diphda	348	47.5	S 17	51.1	Alioth	166	12.4	N 55	49.2
Achernar	335	20.6	S 57	06.7	Spica	158	21.9	S 11	17.7
Hamal	327	51.4	N 23	34.9	Alkaid	152	51.4	N 49	11.0
Polaris	314	14.3	N 89	22.5	Hadar	148	35.4	S 60	29.5
Acamar	315	11.8	S 40	12.5	Menkent	147	56.9	S 36	29.3
Menkar	314	06.2	N 04	11.3	Arcturus	145	47.1	N 19	03.7
Mirfak	308	28.3	N 49	57.2	Rigel Kentaurus	139	36.8	S 60	56.4
Aldebaran	290	39.5	N 16	33.7	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	21.7	N 46	01.7	Kocab	137	19.1	N 74	02.7
Rigel	281	03.7	S 08	10.5	Alphecca	126	03.5	N 26	37.5
Bellatrix	278	22.7	N 06	22.3	Antares	112	15.7	S 26	29.3
Elnath	278	01.7	N 28	37.9	Atria	107	09.8	S 69	04.1
Alnilam	275	37.5	S 01	11.2	Sabik	102	02.7	S 15	45.5
Betelgeuze	270	51.9	N 07	24.6	Shaula	96	10.2	S 37	07.2
Canopus	263	52.2	S 52	42.8	Rasalhague	95	58.5	N 12	32.3
Sirius	258	25.8	S 16	44.7	Etamin	90	42.2	N 51	28.7
Adhara	255	05.6	S 29	00.6	Kaus Australis	83	32.5	S 34	22.3
Castor	245	56.6	N 31	50.1	Vega	80	33.4	N 38	47.9
Procyon	244	50.2	N 05	10.0	Nunki	75	47.8	S 26	15.9
Pollux	243	16.5	N 27	58.0	Albireo	67	04.2	N 28	00.5
Avior	234	14.2	S 59	35.6	Altair	62	00.2	N 08	55.7
Suhail	222	45.8	S 43	32.2	Peacock	53	05.9	S 56	39.1
Miaplacidus	221	37.3	S 69	49.4	Deneb	49	26.1	N 45	21.9
Alphard	217	47.3	S 08	46.2	Enif	33	39.0	N 09	59.3
Regulus	207	33.9	N 11	50.5	Alnair	27	33.2	S 46	50.3
Dubhe	193	40.0	N 61	36.8	Formalhaut	15	14.9	S 29	29.4
Denebola	182	24.3	N 14	25.8	Markab	13	30.1	N 15	20.3

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UT	day 71 of 365			day 72 of 365			day 73 of 365			day 74 of 365			day 75 of 365			UT
	March 12			March 13			March 14			March 15			March 16			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	169	53.7	+02.5	170	52.9	+02.4	171	52.0	+02.5	172	51.1	+02.5	173	50.3	+02.4	00
01	184	56.2	+02.4	185	55.3	+02.5	186	54.5	+02.4	187	53.6	+02.5	188	52.7	+02.5	01
02	199	58.6	+02.5	200	57.8	+02.4	201	56.9	+02.5	202	56.1	+02.4	203	55.2	+02.5	02
03	215	01.1	+02.5	216	00.2	+02.5	216	59.4	+02.4	217	58.5	+02.5	218	57.7	+02.4	03
04	230	03.6	+02.4	231	02.7	+02.5	232	01.8	+02.5	233	01.0	+02.4	234	00.1	+02.5	04
05	245	06.0	+02.5	246	05.2	+02.4	247	04.3	+02.5	248	03.4	+02.5	249	02.6	+02.4	05
06	260	08.5	+02.5	261	07.6	+02.5	262	06.8	+02.4	263	05.9	+02.5	264	05.0	+02.5	06
07	275	11.0	+02.4	276	10.1	+02.5	277	09.2	+02.5	278	08.4	+02.4	279	07.5	+02.5	07
08	290	13.4	+02.5	291	12.6	+02.4	292	11.7	+02.5	293	10.8	+02.5	294	10.0	+02.4	08
09	305	15.9	+02.5	306	15.0	+02.5	307	14.2	+02.4	308	13.3	+02.5	309	12.4	+02.5	09
10	320	18.4	+02.4	321	17.5	+02.5	322	16.6	+02.5	323	15.8	+02.4	324	14.9	+02.5	10
11	335	20.8	+02.5	336	20.0	+02.4	337	19.1	+02.5	338	18.2	+02.5	339	17.4	+02.4	11
12	350	23.3	+02.4	351	22.4	+02.5	352	21.6	+02.4	353	20.7	+02.5	354	19.8	+02.5	12
13	5	25.7	+02.5	6	24.9	+02.4	7	24.0	+02.5	8	23.2	+02.4	9	22.3	+02.5	13
14	20	28.2	+02.5	21	27.3	+02.5	22	26.5	+02.5	23	25.6	+02.5	24	24.8	+02.4	14
15	35	30.7	+02.4	36	29.8	+02.5	37	29.0	+02.4	38	28.1	+02.5	39	27.2	+02.5	15
16	50	33.1	+02.5	51	32.3	+02.4	52	31.4	+02.5	53	30.6	+02.4	54	29.7	+02.5	16
17	65	35.6	+02.5	66	34.7	+02.5	67	33.9	+02.4	68	33.0	+02.5	69	32.2	+02.4	17
18	80	38.1	+02.4	81	37.2	+02.5	82	36.3	+02.5	83	35.5	+02.4	84	34.6	+02.5	18
19	95	40.5	+02.5	96	39.7	+02.4	97	38.8	+02.5	98	37.9	+02.5	99	37.1	+02.4	19
20	110	43.0	+02.5	111	42.1	+02.5	112	41.3	+02.4	113	40.4	+02.5	114	39.5	+02.5	20
21	125	45.5	+02.4	126	44.6	+02.5	127	43.7	+02.5	128	42.9	+02.4	129	42.0	+02.5	21
22	140	47.9	+02.5	141	47.1	+02.4	142	46.2	+02.5	143	45.3	+02.5	144	44.5	+02.4	22
23	155	50.4	+02.5	156	49.5	+02.5	157	48.7	+02.4	158	47.8	+02.5	159	46.9	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.8	Gienah	175 43.1	S 17 41.0
Ankaa	353 07.5	S 42 10.1	Acrux	172 59.3	S 63 14.3
Schedir	349 31.5	N 56 40.6	Gacrux	171 51.0	S 57 15.2
Diphda	348 47.5	S 17 51.1	Alioth	166 12.4	N 55 49.2
Achernar	335 20.6	S 57 06.7	Spica	158 21.9	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.4	N 49 11.0
Polaris	314 16.4	N 89 22.5	Hadar	148 35.3	S 60 29.6
Acamar	315 11.8	S 40 12.4	Menkent	147 56.8	S 36 29.3
Menkar	314 06.2	N 04 11.3	Arcturus	145 47.1	N 19 03.7
Mirfak	308 28.3	N 49 57.2	Rigel Kentaurus	139 36.8	S 60 56.4
Aldebaran	290 39.5	N 16 33.7	Zubenelgenubi	136 55.6	S 16 08.8
Capella	280 21.7	N 46 01.7	Kocab	137 19.0	N 74 02.8
Rigel	281 03.7	S 08 10.5	Alphecca	126 03.5	N 26 37.5
Bellatrix	278 22.7	N 06 22.3	Antares	112 15.7	S 26 29.3
Elnath	278 01.7	N 28 37.9	Atria	107 09.7	S 69 04.1
Alnilam	275 37.6	S 01 11.2	Sabik	102 02.6	S 15 45.5
Betelgeuze	270 51.9	N 07 24.6	Shaula	96 10.2	S 37 07.2
Canopus	263 52.2	S 52 42.8	Rasalhague	95 58.5	N 12 32.3
Sirius	258 25.8	S 16 44.7	Etamin	90 42.2	N 51 28.7
Adhara	255 05.6	S 29 00.6	Kaus Australis	83 32.4	S 34 22.3
Castor	245 56.6	N 31 50.1	Vega	80 33.3	N 38 47.9
Procyon	244 50.3	N 05 10.0	Nunki	75 47.7	S 26 15.9
Pollux	243 16.5	N 27 58.0	Albireo	67 04.1	N 28 00.4
Avior	234 14.3	S 59 35.6	Altair	62 00.2	N 08 55.7
Suhail	222 45.8	S 43 32.2	Peacock	53 05.9	S 56 39.1
Miaplacidus	221 37.4	S 69 49.4	Deneb	49 26.1	N 45 21.9
Alphard	217 47.3	S 08 46.2	Enif	33 39.0	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.2	S 46 50.3
Dubhe	193 40.0	N 61 36.9	Formalhaut	15 14.8	S 29 29.4
Denebola	182 24.3	N 14 25.8	Markab	13 30.1	N 15 20.3

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UT	day 76 of 365		day 77 of 365		day 78 of 365		day 79 of 365		day 80 of 365		UT					
	March 17		March 18		March 19		March 20		March 21							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	174	49.4	+02.5	175	48.5	+02.5	176	47.7	+02.4	177	46.8	+02.5	178	46.0	+02.4	00
01	189	51.9	+02.4	190	51.0	+02.5	191	50.1	+02.5	192	49.3	+02.4	193	48.4	+02.5	01
02	204	54.3	+02.5	205	53.5	+02.4	206	52.6	+02.5	207	51.7	+02.5	208	50.9	+02.4	02
03	219	56.8	+02.5	220	55.9	+02.5	221	55.1	+02.4	222	54.2	+02.5	223	53.3	+02.5	03
04	234	59.3	+02.4	235	58.4	+02.5	236	57.5	+02.5	237	56.7	+02.4	238	55.8	+02.5	04
05	250	01.7	+02.5	251	00.9	+02.4	251	60.0	+02.5	252	59.1	+02.5	253	58.3	+02.4	05
06	265	04.2	+02.4	266	03.3	+02.5	267	02.5	+02.4	268	01.6	+02.5	269	00.7	+02.5	06
07	280	06.6	+02.5	281	05.8	+02.4	282	04.9	+02.5	283	04.1	+02.4	284	03.2	+02.5	07
08	295	09.1	+02.5	296	08.2	+02.5	297	07.4	+02.5	298	06.5	+02.5	299	05.7	+02.4	08
09	310	11.6	+02.4	311	10.7	+02.5	312	09.9	+02.4	313	09.0	+02.5	314	08.1	+02.5	09
10	325	14.0	+02.5	326	13.2	+02.4	327	12.3	+02.5	328	11.5	+02.4	329	10.6	+02.5	10
11	340	16.5	+02.5	341	15.6	+02.5	342	14.8	+02.4	343	13.9	+02.5	344	13.1	+02.4	11
12	355	19.0	+02.4	356	18.1	+02.5	357	17.2	+02.5	358	16.4	+02.4	359	15.5	+02.5	12
13	10	21.4	+02.5	11	20.6	+02.4	12	19.7	+02.5	13	18.8	+02.5	14	18.0	+02.5	13
14	25	23.9	+02.5	26	23.0	+02.5	27	22.2	+02.4	28	21.3	+02.5	29	20.5	+02.4	14
15	40	26.4	+02.4	41	25.5	+02.5	42	24.6	+02.5	43	23.8	+02.4	44	22.9	+02.5	15
16	55	28.8	+02.5	56	28.0	+02.4	57	27.1	+02.5	58	26.2	+02.5	59	25.4	+02.4	16
17	70	31.3	+02.5	71	30.4	+02.5	72	29.6	+02.4	73	28.7	+02.5	74	27.8	+02.5	17
18	85	33.8	+02.4	86	32.9	+02.5	87	32.0	+02.5	88	31.2	+02.4	89	30.3	+02.5	18
19	100	36.2	+02.5	101	35.4	+02.4	102	34.5	+02.5	103	33.6	+02.5	104	32.8	+02.4	19
20	115	38.7	+02.4	116	37.8	+02.5	117	37.0	+02.4	118	36.1	+02.5	119	35.2	+02.5	20
21	130	41.1	+02.5	131	40.3	+02.4	132	39.4	+02.5	133	38.6	+02.4	134	37.7	+02.5	21
22	145	43.6	+02.5	146	42.7	+02.5	147	41.9	+02.4	148	41.0	+02.5	149	40.2	+02.4	22
23	160	46.1	+02.4	161	45.2	+02.5	162	44.3	+02.5	163	43.5	+02.5	164	42.6	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.0	N 29	13.8	Gienah	175	43.1	S 17	41.0
Ankaa	353	07.5	S 42	10.1	Acrux	172	59.3	S 63	14.3
Schedir	349	31.5	N 56	40.6	Gacrux	171	51.0	S 57	15.2
Diphda	348	47.5	S 17	51.1	Alioth	166	12.4	N 55	49.2
Achernar	335	20.6	S 57	06.7	Spica	158	21.8	S 11	17.7
Hamal	327	51.4	N 23	34.9	Alkaid	152	51.4	N 49	11.0
Polaris	314	18.5	N 89	22.5	Hadar	148	35.3	S 60	29.6
Acamar	315	11.9	S 40	12.4	Menkent	147	56.8	S 36	29.4
Menkar	314	06.2	N 04	11.3	Arcturus	145	47.1	N 19	03.7
Mirfak	308	28.3	N 49	57.2	Rigel Kentaurus	139	36.7	S 60	56.5
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	21.8	N 46	01.7	Kocab	137	18.9	N 74	02.8
Rigel	281	03.8	S 08	10.5	Alphecca	126	03.5	N 26	37.5
Bellatrix	278	22.7	N 06	22.3	Antares	112	15.7	S 26	29.3
Elnath	278	01.7	N 28	37.9	Atria	107	09.6	S 69	04.1
Alnilam	275	37.6	S 01	11.2	Sabik	102	02.6	S 15	45.5
Betelgeuze	270	51.9	N 07	24.6	Shaula	96	10.1	S 37	07.2
Canopus	263	52.3	S 52	42.8	Rasalhague	95	58.4	N 12	32.3
Sirius	258	25.8	S 16	44.7	Etamin	90	42.1	N 51	28.7
Adhara	255	05.6	S 29	00.6	Kaus Australis	83	32.4	S 34	22.3
Castor	245	56.6	N 31	50.1	Vega	80	33.3	N 38	47.9
Procyon	244	50.3	N 05	10.0	Nunki	75	47.7	S 26	15.9
Pollux	243	16.6	N 27	58.0	Albireo	67	04.1	N 28	00.4
Avior	234	14.3	S 59	35.6	Altair	62	00.2	N 08	55.7
Suhail	222	45.9	S 43	32.2	Peacock	53	05.8	S 56	39.1
Miaplacidus	221	37.4	S 69	49.4	Deneb	49	26.0	N 45	21.9
Alphard	217	47.3	S 08	46.2	Enif	33	38.9	N 09	59.3
Regulus	207	33.9	N 11	50.5	Alnair	27	33.2	S 46	50.3
Dubhe	193	40.0	N 61	36.9	Formalhaut	15	14.8	S 29	29.3
Denebola	182	24.3	N 14	25.8	Markab	13	30.1	N 15	20.3

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UT	day 81 of 365		day 82 of 365		day 83 of 365		day 84 of 365		day 85 of 365		UT
	March 22		March 23		March 24		March 25		March 26		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	179	45.1 +02.5	180	44.2 +02.5	181	43.4 +02.4	182	42.5 +02.5	183	41.7 +02.4	00
01	194	47.6 +02.4	195	46.7 +02.5	196	45.8 +02.5	197	45.0 +02.4	198	44.1 +02.5	01
02	209	50.0 +02.5	210	49.2 +02.4	211	48.3 +02.5	212	47.4 +02.5	213	46.6 +02.4	02
03	224	52.5 +02.4	225	51.6 +02.5	226	50.8 +02.4	227	49.9 +02.5	228	49.0 +02.5	03
04	239	54.9 +02.5	240	54.1 +02.5	241	53.2 +02.5	242	52.4 +02.4	243	51.5 +02.5	04
05	254	57.4 +02.5	255	56.6 +02.4	256	55.7 +02.5	257	54.8 +02.5	258	54.0 +02.4	05
06	269	59.9 +02.4	270	59.0 +02.5	271	58.2 +02.4	272	57.3 +02.5	273	56.4 +02.5	06
07	285	02.3 +02.5	286	01.5 +02.4	287	00.6 +02.5	287	59.8 +02.4	288	58.9 +02.5	07
08	300	04.8 +02.5	301	03.9 +02.5	302	03.1 +02.5	303	02.2 +02.5	304	01.4 +02.4	08
09	315	07.3 +02.4	316	06.4 +02.5	317	05.6 +02.4	318	04.7 +02.5	319	03.8 +02.5	09
10	330	09.7 +02.5	331	08.9 +02.4	332	08.0 +02.5	333	07.2 +02.4	334	06.3 +02.5	10
11	345	12.2 +02.5	346	11.3 +02.5	347	10.5 +02.4	348	09.6 +02.5	349	08.8 +02.4	11
12	0	14.7 +02.4	1	13.8 +02.5	2	12.9 +02.5	3	12.1 +02.4	4	11.2 +02.5	12
13	15	17.1 +02.5	16	16.3 +02.4	17	15.4 +02.5	18	14.5 +02.5	19	13.7 +02.4	13
14	30	19.6 +02.5	31	18.7 +02.5	32	17.9 +02.4	33	17.0 +02.5	34	16.1 +02.5	14
15	45	22.1 +02.4	46	21.2 +02.5	47	20.3 +02.5	48	19.5 +02.4	49	18.6 +02.5	15
16	60	24.5 +02.5	61	23.7 +02.4	62	22.8 +02.5	63	21.9 +02.5	64	21.1 +02.4	16
17	75	27.0 +02.4	76	26.1 +02.5	77	25.3 +02.4	78	24.4 +02.5	79	23.5 +02.5	17
18	90	29.4 +02.5	91	28.6 +02.5	92	27.7 +02.5	93	26.9 +02.4	94	26.0 +02.5	18
19	105	31.9 +02.5	106	31.1 +02.4	107	30.2 +02.5	108	29.3 +02.5	109	28.5 +02.4	19
20	120	34.4 +02.4	121	33.5 +02.5	122	32.7 +02.4	123	31.8 +02.5	124	30.9 +02.5	20
21	135	36.8 +02.5	136	36.0 +02.4	137	35.1 +02.5	138	34.3 +02.4	139	33.4 +02.5	21
22	150	39.3 +02.5	151	38.4 +02.5	152	37.6 +02.4	153	36.7 +02.5	154	35.9 +02.4	22
23	165	41.8 +02.4	166	40.9 +02.5	167	40.0 +02.5	168	39.2 +02.5	169	38.3 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.7	Gienah	175 43.0	S 17 41.1
Ankaa	353 07.5	S 42 10.1	Acrux	172 59.3	S 63 14.4
Schedir	349 31.5	N 56 40.5	Gacrux	171 51.0	S 57 15.2
Diphda	348 47.5	S 17 51.0	Alioth	166 12.4	N 55 49.2
Achernar	335 20.6	S 57 06.7	Spica	158 21.8	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.4	N 49 11.0
Polaris	314 20.0	N 89 22.5	Hadar	148 35.2	S 60 29.6
Acamar	315 11.9	S 40 12.4	Menkent	147 56.8	S 36 29.4
Menkar	314 06.2	N 04 11.3	Arcturus	145 47.1	N 19 03.7
Mirfak	308 28.4	N 49 57.2	Rigel Kentaurus	139 36.7	S 60 56.5
Aldebaran	290 39.6	N 16 33.7	Zubenelgenubi	136 55.5	S 16 08.9
Capella	280 21.8	N 46 01.7	Kocab	137 18.8	N 74 02.8
Rigel	281 03.8	S 08 10.5	Alphecca	126 03.4	N 26 37.5
Bellatrix	278 22.7	N 06 22.3	Antares	112 15.6	S 26 29.3
Elnath	278 01.7	N 28 37.9	Atria	107 09.5	S 69 04.1
Alnilam	275 37.6	S 01 11.2	Sabik	102 02.5	S 15 45.5
Betelgeuze	270 51.9	N 07 24.6	Shaula	96 10.1	S 37 07.2
Canopus	263 52.3	S 52 42.8	Rasalhague	95 58.4	N 12 32.3
Sirius	258 25.8	S 16 44.7	Etamin	90 42.1	N 51 28.7
Adhara	255 05.7	S 29 00.6	Kaus Australis	83 32.3	S 34 22.3
Castor	245 56.6	N 31 50.1	Vega	80 33.3	N 38 47.9
Procyon	244 50.3	N 05 10.0	Nunki	75 47.6	S 26 15.9
Pollux	243 16.6	N 27 58.0	Albireo	67 04.1	N 28 00.4
Avior	234 14.3	S 59 35.7	Altair	62 00.1	N 08 55.7
Suhail	222 45.9	S 43 32.3	Peacock	53 05.8	S 56 39.1
Miaplacidus	221 37.5	S 69 49.5	Deneb	49 26.0	N 45 21.9
Alphard	217 47.4	S 08 46.2	Enif	33 38.9	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.2	S 46 50.3
Dubhe	193 40.0	N 61 36.9	Formalhaut	15 14.8	S 29 29.3
Denebola	182 24.3	N 14 25.8	Markab	13 30.1	N 15 20.3

2025 - First Point of Aries / Selected Stars

UT	day 86 of 365			day 87 of 365			day 88 of 365			day 89 of 365			day 90 of 365			UT
	March 27			March 28			March 29			March 30			March 31			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	184	40.8	+02.5	185	39.9	+02.5	186	39.1	+02.4	187	38.2	+02.5	188	37.3	+02.5	00
01	199	43.3	+02.4	200	42.4	+02.5	201	41.5	+02.5	202	40.7	+02.4	203	39.8	+02.5	01
02	214	45.7	+02.5	215	44.9	+02.4	216	44.0	+02.5	217	43.1	+02.5	218	42.3	+02.4	02
03	229	48.2	+02.4	230	47.3	+02.5	231	46.5	+02.4	232	45.6	+02.5	233	44.7	+02.5	03
04	244	50.6	+02.5	245	49.8	+02.4	246	48.9	+02.5	247	48.1	+02.4	248	47.2	+02.5	04
05	259	53.1	+02.5	260	52.2	+02.5	261	51.4	+02.4	262	50.5	+02.5	263	49.7	+02.4	05
06	274	55.6	+02.4	275	54.7	+02.5	276	53.8	+02.5	277	53.0	+02.4	278	52.1	+02.5	06
07	289	58.0	+02.5	290	57.2	+02.4	291	56.3	+02.5	292	55.4	+02.5	293	54.6	+02.4	07
08	305	00.5	+02.5	305	59.6	+02.5	306	58.8	+02.4	307	57.9	+02.5	308	57.0	+02.5	08
09	320	03.0	+02.4	321	02.1	+02.5	322	01.2	+02.5	323	00.4	+02.4	323	59.5	+02.5	09
10	335	05.4	+02.5	336	04.6	+02.4	337	03.7	+02.5	338	02.8	+02.5	339	02.0	+02.4	10
11	350	07.9	+02.5	351	07.0	+02.5	352	06.2	+02.4	353	05.3	+02.5	354	04.4	+02.5	11
12	5	10.4	+02.4	6	09.5	+02.5	7	08.6	+02.5	8	07.8	+02.4	9	06.9	+02.5	12
13	20	12.8	+02.5	21	12.0	+02.4	22	11.1	+02.5	23	10.2	+02.5	24	09.4	+02.4	13
14	35	15.3	+02.4	36	14.4	+02.5	37	13.6	+02.4	38	12.7	+02.5	39	11.8	+02.5	14
15	50	17.7	+02.5	51	16.9	+02.5	52	16.0	+02.5	53	15.2	+02.4	54	14.3	+02.5	15
16	65	20.2	+02.5	66	19.4	+02.4	67	18.5	+02.5	68	17.6	+02.5	69	16.8	+02.4	16
17	80	22.7	+02.4	81	21.8	+02.5	82	21.0	+02.4	83	20.1	+02.5	84	19.2	+02.5	17
18	95	25.1	+02.5	96	24.3	+02.4	97	23.4	+02.5	98	22.6	+02.4	99	21.7	+02.5	18
19	110	27.6	+02.5	111	26.7	+02.5	112	25.9	+02.4	113	25.0	+02.5	114	24.2	+02.4	19
20	125	30.1	+02.4	126	29.2	+02.5	127	28.3	+02.5	128	27.5	+02.4	129	26.6	+02.5	20
21	140	32.5	+02.5	141	31.7	+02.4	142	30.8	+02.5	143	29.9	+02.5	144	29.1	+02.4	21
22	155	35.0	+02.5	156	34.1	+02.5	157	33.3	+02.4	158	32.4	+02.5	159	31.5	+02.5	22
23	170	37.5	+02.4	171	36.6	+02.5	172	35.7	+02.5	173	34.9	+02.4	174	34.0	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.7	Gienah	175 43.0	S 17 41.1
Ankaa	353 07.5	S 42 10.1	Acrux	172 59.3	S 63 14.4
Schedir	349 31.5	N 56 40.5	Gacrux	171 51.0	S 57 15.2
Diphda	348 47.5	S 17 51.0	Alioth	166 12.3	N 55 49.2
Achernar	335 20.6	S 57 06.6	Spica	158 21.8	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.3	N 49 11.0
Polaris	314 21.6	N 89 22.4	Hadar	148 35.2	S 60 29.6
Acamar	315 11.9	S 40 12.4	Menkent	147 56.8	S 36 29.4
Menkar	314 06.2	N 04 11.3	Arcturus	145 47.0	N 19 03.7
Mirfak	308 28.4	N 49 57.2	Rigel Kentaurus	139 36.6	S 60 56.5
Aldebaran	290 39.6	N 16 33.7	Zubenelgenubi	136 55.5	S 16 08.9
Capella	280 21.8	N 46 01.7	Kocab	137 18.8	N 74 02.8
Rigel	281 03.8	S 08 10.5	Alphecca	126 03.4	N 26 37.5
Bellatrix	278 22.8	N 06 22.3	Antares	112 15.6	S 26 29.3
Elnath	278 01.8	N 28 37.9	Atria	107 09.4	S 69 04.1
Alnilam	275 37.6	S 01 11.2	Sabik	102 02.5	S 15 45.5
Betelgeuze	270 52.0	N 07 24.6	Shaula	96 10.0	S 37 07.3
Canopus	263 52.3	S 52 42.8	Rasalhague	95 58.3	N 12 32.3
Sirius	258 25.9	S 16 44.7	Etamin	90 42.0	N 51 28.7
Adhara	255 05.7	S 29 00.6	Kaus Australis	83 32.3	S 34 22.3
Castor	245 56.7	N 31 50.1	Vega	80 33.2	N 38 47.9
Procyon	244 50.3	N 05 10.0	Nunki	75 47.6	S 26 15.9
Pollux	243 16.6	N 27 58.0	Albireo	67 04.0	N 28 00.4
Avior	234 14.4	S 59 35.7	Altair	62 00.1	N 08 55.7
Suhail	222 45.9	S 43 32.3	Peacock	53 05.7	S 56 39.0
Miaplacidus	221 37.5	S 69 49.5	Deneb	49 26.0	N 45 21.9
Alphard	217 47.4	S 08 46.2	Enif	33 38.9	N 09 59.3
Regulus	207 33.9	N 11 50.5	Alnair	27 33.1	S 46 50.2
Dubhe	193 40.0	N 61 36.9	Formalhaut	15 14.8	S 29 29.3
Denebola	182 24.3	N 14 25.8	Markab	13 30.1	N 15 20.3

2025 - First Point of Aries / Selected Stars

UT	day 91 of 365		day 92 of 365		day 93 of 365		day 94 of 365		day 95 of 365		UT					
	<i>April 1</i>		<i>April 2</i>		<i>April 3</i>		<i>April 4</i>		<i>April 5</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	189	36.5	+02.4	190	35.6	+02.5	191	34.8	+02.4	192	33.9	+02.5	193	33.0	+02.5	00
01	204	38.9	+02.5	205	38.1	+02.4	206	37.2	+02.5	207	36.4	+02.4	208	35.5	+02.5	01
02	219	41.4	+02.5	220	40.5	+02.5	221	39.7	+02.4	222	38.8	+02.5	223	38.0	+02.4	02
03	234	43.9	+02.4	235	43.0	+02.5	236	42.1	+02.5	237	41.3	+02.5	238	40.4	+02.5	03
04	249	46.3	+02.5	250	45.5	+02.4	251	44.6	+02.5	252	43.8	+02.4	253	42.9	+02.5	04
05	264	48.8	+02.5	265	47.9	+02.5	266	47.1	+02.4	267	46.2	+02.5	268	45.4	+02.4	05
06	279	51.3	+02.4	280	50.4	+02.5	281	49.5	+02.5	282	48.7	+02.4	283	47.8	+02.5	06
07	294	53.7	+02.5	295	52.9	+02.4	296	52.0	+02.5	297	51.1	+02.5	298	50.3	+02.4	07
08	309	56.2	+02.5	310	55.3	+02.5	311	54.5	+02.4	312	53.6	+02.5	313	52.7	+02.5	08
09	324	58.7	+02.4	325	57.8	+02.5	326	56.9	+02.5	327	56.1	+02.4	328	55.2	+02.5	09
10	340	01.1	+02.5	341	00.3	+02.4	341	59.4	+02.5	342	58.5	+02.5	343	57.7	+02.4	10
11	355	03.6	+02.4	356	02.7	+02.5	357	01.9	+02.4	358	01.0	+02.5	359	00.1	+02.5	11
12	10	06.0	+02.5	11	05.2	+02.4	12	04.3	+02.5	13	03.5	+02.4	14	02.6	+02.5	12
13	25	08.5	+02.5	26	07.6	+02.5	27	06.8	+02.5	28	05.9	+02.5	29	05.1	+02.4	13
14	40	11.0	+02.4	41	10.1	+02.5	42	09.3	+02.4	43	08.4	+02.5	44	07.5	+02.5	14
15	55	13.4	+02.5	56	12.6	+02.4	57	11.7	+02.5	58	10.9	+02.4	59	10.0	+02.5	15
16	70	15.9	+02.5	71	15.0	+02.5	72	14.2	+02.4	73	13.3	+02.5	74	12.5	+02.4	16
17	85	18.4	+02.4	86	17.5	+02.5	87	16.6	+02.5	88	15.8	+02.5	89	14.9	+02.5	17
18	100	20.8	+02.5	101	20.0	+02.4	102	19.1	+02.5	103	18.3	+02.4	104	17.4	+02.5	18
19	115	23.3	+02.5	116	22.4	+02.5	117	21.6	+02.4	118	20.7	+02.5	119	19.9	+02.4	19
20	130	25.8	+02.4	131	24.9	+02.5	132	24.0	+02.5	133	23.2	+02.4	134	22.3	+02.5	20
21	145	28.2	+02.5	146	27.4	+02.4	147	26.5	+02.5	148	25.6	+02.5	149	24.8	+02.4	21
22	160	30.7	+02.5	161	29.8	+02.5	162	29.0	+02.4	163	28.1	+02.5	164	27.2	+02.5	22
23	175	33.2	+02.4	176	32.3	+02.5	177	31.4	+02.5	178	30.6	+02.4	179	29.7	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.0	N 29	13.7	Gienah	175	43.0	S 17	41.1
Ankaa	353	07.5	S 42	10.0	Acrux	172	59.2	S 63	14.4
Schedir	349	31.5	N 56	40.5	Gacrux	171	51.0	S 57	15.3
Diphda	348	47.5	S 17	51.0	Alioth	166	12.3	N 55	49.3
Achernar	335	20.6	S 57	06.6	Spica	158	21.8	S 11	17.7
Hamal	327	51.4	N 23	34.9	Alkaid	152	51.3	N 49	11.1
Polaris	314	23.1	N 89	22.4	Hadar	148	35.2	S 60	29.7
Acamar	315	11.9	S 40	12.4	Menkent	147	56.7	S 36	29.4
Menkar	314	06.2	N 04	11.3	Arcturus	145	47.0	N 19	03.7
Mirfak	308	28.4	N 49	57.1	Rigel Kentaurus	139	36.6	S 60	56.5
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	21.9	N 46	01.7	Kocab	137	18.7	N 74	02.8
Rigel	281	03.8	S 08	10.5	Alphecca	126	03.4	N 26	37.6
Bellatrix	278	22.8	N 06	22.3	Antares	112	15.5	S 26	29.3
Elnath	278	01.8	N 28	37.8	Atria	107	09.3	S 69	04.1
Alnilam	275	37.7	S 01	11.2	Sabik	102	02.5	S 15	45.5
Betelgeuze	270	52.0	N 07	24.6	Shaula	96	10.0	S 37	07.3
Canopus	263	52.4	S 52	42.8	Rasalhague	95	58.3	N 12	32.3
Sirius	258	25.9	S 16	44.7	Etamin	90	42.0	N 51	28.7
Adhara	255	05.7	S 29	00.6	Kaus Australis	83	32.2	S 34	22.3
Castor	245	56.7	N 31	50.1	Vega	80	33.2	N 38	47.9
Procyon	244	50.3	N 05	10.0	Nunki	75	47.6	S 26	15.9
Pollux	243	16.6	N 27	58.0	Albireo	67	04.0	N 28	00.4
Avior	234	14.4	S 59	35.7	Altair	62	00.1	N 08	55.7
Suhail	222	45.9	S 43	32.3	Peacock	53	05.7	S 56	39.0
Miaplacidus	221	37.6	S 69	49.5	Deneb	49	25.9	N 45	21.9
Alphard	217	47.4	S 08	46.2	Enif	33	38.9	N 09	59.3
Regulus	207	33.9	N 11	50.6	Alnair	27	33.1	S 46	50.2
Dubhe	193	40.0	N 61	37.0	Formalhaut	15	14.8	S 29	29.3
Denebola	182	24.3	N 14	25.8	Markab	13	30.1	N 15	20.3

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UT	day 96 of 365			day 97 of 365			day 98 of 365			day 99 of 365			day 100 of 365			UT
	April 6			April 7			April 8			April 9			April 10			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	194	32.2	+02.4	195	31.3	+02.5	196	30.5	+02.4	197	29.6	+02.5	198	28.7	+02.5	00
01	209	34.6	+02.5	210	33.8	+02.4	211	32.9	+02.5	212	32.1	+02.4	213	31.2	+02.5	01
02	224	37.1	+02.5	225	36.2	+02.5	226	35.4	+02.4	227	34.5	+02.5	228	33.7	+02.4	02
03	239	39.6	+02.4	240	38.7	+02.5	241	37.8	+02.5	242	37.0	+02.4	243	36.1	+02.5	03
04	254	42.0	+02.5	255	41.2	+02.4	256	40.3	+02.5	257	39.4	+02.5	258	38.6	+02.4	04
05	269	44.5	+02.5	270	43.6	+02.5	271	42.8	+02.4	272	41.9	+02.5	273	41.0	+02.5	05
06	284	47.0	+02.4	285	46.1	+02.5	286	45.2	+02.5	287	44.4	+02.4	288	43.5	+02.5	06
07	299	49.4	+02.5	300	48.6	+02.4	301	47.7	+02.5	302	46.8	+02.5	303	46.0	+02.4	07
08	314	51.9	+02.5	315	51.0	+02.5	316	50.2	+02.4	317	49.3	+02.5	318	48.4	+02.5	08
09	329	54.4	+02.4	330	53.5	+02.5	331	52.6	+02.5	332	51.8	+02.4	333	50.9	+02.5	09
10	344	56.8	+02.5	345	56.0	+02.4	346	55.1	+02.5	347	54.2	+02.5	348	53.4	+02.4	10
11	359	59.3	+02.4	0	58.4	+02.5	1	57.6	+02.4	2	56.7	+02.5	3	55.8	+02.5	11
12	15	01.7	+02.5	16	00.9	+02.4	17	00.0	+02.5	17	59.2	+02.4	18	58.3	+02.5	12
13	30	04.2	+02.5	31	03.3	+02.5	32	02.5	+02.5	33	01.6	+02.5	34	00.8	+02.4	13
14	45	06.7	+02.4	46	05.8	+02.5	47	05.0	+02.4	48	04.1	+02.5	49	03.2	+02.5	14
15	60	09.1	+02.5	61	08.3	+02.4	62	07.4	+02.5	63	06.6	+02.4	64	05.7	+02.5	15
16	75	11.6	+02.5	76	10.7	+02.5	77	09.9	+02.4	78	09.0	+02.5	79	08.2	+02.4	16
17	90	14.1	+02.4	91	13.2	+02.5	92	12.3	+02.5	93	11.5	+02.4	94	10.6	+02.5	17
18	105	16.5	+02.5	106	15.7	+02.4	107	14.8	+02.5	108	13.9	+02.5	109	13.1	+02.4	18
19	120	19.0	+02.5	121	18.1	+02.5	122	17.3	+02.4	123	16.4	+02.5	124	15.5	+02.5	19
20	135	21.5	+02.4	136	20.6	+02.5	137	19.7	+02.5	138	18.9	+02.4	139	18.0	+02.5	20
21	150	23.9	+02.5	151	23.1	+02.4	152	22.2	+02.5	153	21.3	+02.5	154	20.5	+02.4	21
22	165	26.4	+02.5	166	25.5	+02.5	167	24.7	+02.4	168	23.8	+02.5	169	22.9	+02.5	22
23	180	28.9	+02.4	181	28.0	+02.5	182	27.1	+02.5	183	26.3	+02.4	184	25.4	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.0	N 29	13.7	Gienah	175	43.0	S 17	41.1
Ankaa	353	07.5	S 42	10.0	Acrux	172	59.2	S 63	14.5
Schedir	349	31.5	N 56	40.5	Gacrux	171	50.9	S 57	15.3
Diphda	348	47.5	S 17	51.0	Alioth	166	12.3	N 55	49.3
Achernar	335	20.6	S 57	06.6	Spica	158	21.8	S 11	17.7
Hamal	327	51.4	N 23	34.9	Alkaid	152	51.3	N 49	11.1
Polaris	314	23.9	N 89	22.4	Hadar	148	35.1	S 60	29.7
Acamar	315	11.9	S 40	12.4	Menkent	147	56.7	S 36	29.4
Menkar	314	06.2	N 04	11.3	Arcturus	145	47.0	N 19	03.7
Mirfak	308	28.4	N 49	57.1	Rigel Kentaurus	139	36.5	S 60	56.6
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	21.9	N 46	01.7	Kocab	137	18.6	N 74	02.9
Rigel	281	03.8	S 08	10.5	Alphecca	126	03.3	N 26	37.6
Bellatrix	278	22.8	N 06	22.3	Antares	112	15.5	S 26	29.3
Elnath	278	01.8	N 28	37.8	Atria	107	09.2	S 69	04.2
Alnilam	275	37.7	S 01	11.2	Sabik	102	02.4	S 15	45.5
Betelgeuze	270	52.0	N 07	24.6	Shaula	96	09.9	S 37	07.3
Canopus	263	52.4	S 52	42.8	Rasalhague	95	58.3	N 12	32.4
Sirius	258	25.9	S 16	44.7	Etamin	90	41.9	N 51	28.7
Adhara	255	05.7	S 29	00.6	Kaus Australis	83	32.2	S 34	22.2
Castor	245	56.7	N 31	50.1	Vega	80	33.1	N 38	47.9
Procyon	244	50.3	N 05	10.0	Nunki	75	47.5	S 26	15.9
Pollux	243	16.6	N 27	58.0	Albireo	67	03.9	N 28	00.4
Avior	234	14.5	S 59	35.7	Altair	62	00.0	N 08	55.7
Suhail	222	46.0	S 43	32.3	Peacock	53	05.6	S 56	39.0
Miaplacidus	221	37.7	S 69	49.5	Deneb	49	25.9	N 45	21.9
Alphard	217	47.4	S 08	46.2	Enif	33	38.8	N 09	59.3
Regulus	207	33.9	N 11	50.6	Alnair	27	33.0	S 46	50.2
Dubhe	193	40.0	N 61	37.0	Formalhaut	15	14.7	S 29	29.3
Denebola	182	24.3	N 14	25.8	Markab	13	30.0	N 15	20.3

2025 - First Point of Aries / Selected Stars

UT	day 101 of 365 April 11		day 102 of 365 April 12		day 103 of 365 April 13		day 104 of 365 April 14		day 105 of 365 April 15		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	199	27.9 +02.4	200	27.0 +02.5	201	26.1 +02.5	202	25.3 +02.4	203	24.4 +02.5	00
01	214	30.3 +02.5	215	29.5 +02.4	216	28.6 +02.5	217	27.7 +02.5	218	26.9 +02.4	01
02	229	32.8 +02.5	230	31.9 +02.5	231	31.1 +02.4	232	30.2 +02.5	233	29.3 +02.5	02
03	244	35.3 +02.4	245	34.4 +02.5	246	33.5 +02.5	247	32.7 +02.4	248	31.8 +02.5	03
04	259	37.7 +02.5	260	36.9 +02.4	261	36.0 +02.5	262	35.1 +02.5	263	34.3 +02.4	04
05	274	40.2 +02.4	275	39.3 +02.5	276	38.5 +02.4	277	37.6 +02.5	278	36.7 +02.5	05
06	289	42.6 +02.5	290	41.8 +02.4	291	40.9 +02.5	292	40.1 +02.4	293	39.2 +02.5	06
07	304	45.1 +02.5	305	44.2 +02.5	306	43.4 +02.5	307	42.5 +02.5	308	41.7 +02.4	07
08	319	47.6 +02.4	320	46.7 +02.5	321	45.9 +02.4	322	45.0 +02.5	323	44.1 +02.5	08
09	334	50.0 +02.5	335	49.2 +02.4	336	48.3 +02.5	337	47.5 +02.4	338	46.6 +02.5	09
10	349	52.5 +02.5	350	51.6 +02.5	351	50.8 +02.4	352	49.9 +02.5	353	49.1 +02.4	10
11	4	55.0 +02.4	5	54.1 +02.5	6	53.2 +02.5	7	52.4 +02.4	8	51.5 +02.5	11
12	19	57.4 +02.5	20	56.6 +02.4	21	55.7 +02.5	22	54.8 +02.5	23	54.0 +02.4	12
13	34	59.9 +02.5	35	59.0 +02.5	36	58.2 +02.4	37	57.3 +02.5	38	56.4 +02.5	13
14	50	02.4 +02.4	51	01.5 +02.5	52	00.6 +02.5	52	59.8 +02.4	53	58.9 +02.5	14
15	65	04.8 +02.5	66	04.0 +02.4	67	03.1 +02.5	68	02.2 +02.5	69	01.4 +02.4	15
16	80	07.3 +02.5	81	06.4 +02.5	82	05.6 +02.4	83	04.7 +02.5	84	03.8 +02.5	16
17	95	09.8 +02.4	96	08.9 +02.5	97	08.0 +02.5	98	07.2 +02.4	99	06.3 +02.5	17
18	110	12.2 +02.5	111	11.4 +02.4	112	10.5 +02.5	113	09.6 +02.5	114	08.8 +02.4	18
19	125	14.7 +02.4	126	13.8 +02.5	127	13.0 +02.4	128	12.1 +02.5	129	11.2 +02.5	19
20	140	17.1 +02.5	141	16.3 +02.4	142	15.4 +02.5	143	14.6 +02.4	144	13.7 +02.5	20
21	155	19.6 +02.5	156	18.7 +02.5	157	17.9 +02.4	158	17.0 +02.5	159	16.2 +02.4	21
22	170	22.1 +02.4	171	21.2 +02.5	172	20.3 +02.5	173	19.5 +02.5	174	18.6 +02.5	22
23	185	24.5 +02.5	186	23.7 +02.4	187	22.8 +02.5	188	22.0 +02.4	189	21.1 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.7	Gienah	175 43.0	S 17 41.1
Ankaa	353 07.5	S 42 10.0	Acrux	172 59.2	S 63 14.5
Schedir	349 31.5	N 56 40.5	Gacrux	171 50.9	S 57 15.3
Diphda	348 47.5	S 17 51.0	Alioth	166 12.3	N 55 49.3
Achernar	335 20.6	S 57 06.5	Spica	158 21.8	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.3	N 49 11.1
Polaris	314 25.1	N 89 22.4	Hadar	148 35.1	S 60 29.7
Acamar	315 12.0	S 40 12.3	Menkent	147 56.7	S 36 29.5
Menkar	314 06.2	N 04 11.3	Arcturus	145 47.0	N 19 03.7
Mirfak	308 28.4	N 49 57.1	Rigel Kentaurus	139 36.5	S 60 56.6
Aldebaran	290 39.6	N 16 33.7	Zubenelgenubi	136 55.4	S 16 08.9
Capella	280 21.9	N 46 01.7	Kocab	137 18.6	N 74 02.9
Rigel	281 03.9	S 08 10.5	Alphecca	126 03.3	N 26 37.6
Bellatrix	278 22.8	N 06 22.3	Antares	112 15.5	S 26 29.3
Elnath	278 01.8	N 28 37.8	Atria	107 09.1	S 69 04.2
Alnilam	275 37.7	S 01 11.2	Sabik	102 02.4	S 15 45.5
Betelgeuze	270 52.0	N 07 24.6	Shaula	96 09.9	S 37 07.3
Canopus	263 52.5	S 52 42.8	Rasalhague	95 58.2	N 12 32.4
Sirius	258 25.9	S 16 44.7	Etamin	90 41.9	N 51 28.8
Adhara	255 05.8	S 29 00.6	Kaus Australis	83 32.1	S 34 22.2
Castor	245 56.7	N 31 50.1	Vega	80 33.1	N 38 47.9
Procyon	244 50.4	N 05 10.0	Nunki	75 47.5	S 26 15.9
Pollux	243 16.7	N 27 58.0	Albireo	67 03.9	N 28 00.4
Avior	234 14.5	S 59 35.7	Altair	61 60.0	N 08 55.7
Suhail	222 46.0	S 43 32.3	Peacock	53 05.5	S 56 39.0
Miaplacidus	221 37.7	S 69 49.5	Deneb	49 25.8	N 45 21.9
Alphard	217 47.4	S 08 46.2	Enif	33 38.8	N 09 59.3
Regulus	207 33.9	N 11 50.6	Alnair	27 33.0	S 46 50.2
Dubhe	193 40.1	N 61 37.0	Formalhaut	15 14.7	S 29 29.3
Denebola	182 24.3	N 14 25.8	Markab	13 30.0	N 15 20.3

2025 - First Point of Aries / Selected Stars

UT	day 106 of 365 April 16		day 107 of 365 April 17		day 108 of 365 April 18		day 109 of 365 April 19		day 110 of 365 April 20		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	204	23.6 +02.4	205	22.7 +02.5	206	21.8 +02.5	207	21.0 +02.4	208	20.1 +02.5	00
01	219	26.0 +02.5	220	25.2 +02.4	221	24.3 +02.5	222	23.4 +02.5	223	22.6 +02.4	01
02	234	28.5 +02.4	235	27.6 +02.5	236	26.8 +02.4	237	25.9 +02.5	238	25.0 +02.5	02
03	249	30.9 +02.5	250	30.1 +02.4	251	29.2 +02.5	252	28.4 +02.4	253	27.5 +02.5	03
04	264	33.4 +02.5	265	32.5 +02.5	266	31.7 +02.5	267	30.8 +02.5	268	30.0 +02.4	04
05	279	35.9 +02.4	280	35.0 +02.5	281	34.2 +02.4	282	33.3 +02.5	283	32.4 +02.5	05
06	294	38.3 +02.5	295	37.5 +02.4	296	36.6 +02.5	297	35.8 +02.4	298	34.9 +02.5	06
07	309	40.8 +02.5	310	39.9 +02.5	311	39.1 +02.4	312	38.2 +02.5	313	37.4 +02.4	07
08	324	43.3 +02.4	325	42.4 +02.5	326	41.5 +02.5	327	40.7 +02.5	328	39.8 +02.5	08
09	339	45.7 +02.5	340	44.9 +02.4	341	44.0 +02.5	342	43.2 +02.4	343	42.3 +02.5	09
10	354	48.2 +02.5	355	47.3 +02.5	356	46.5 +02.4	357	45.6 +02.5	358	44.8 +02.4	10
11	9	50.7 +02.4	10	49.8 +02.5	11	48.9 +02.5	12	48.1 +02.4	13	47.2 +02.5	11
12	24	53.1 +02.5	25	52.3 +02.4	26	51.4 +02.5	27	50.5 +02.5	28	49.7 +02.4	12
13	39	55.6 +02.5	40	54.7 +02.5	41	53.9 +02.4	42	53.0 +02.5	43	52.1 +02.5	13
14	54	58.1 +02.4	55	57.2 +02.5	56	56.3 +02.5	57	55.5 +02.4	58	54.6 +02.5	14
15	70	00.5 +02.5	70	59.7 +02.4	71	58.8 +02.5	72	57.9 +02.5	73	57.1 +02.4	15
16	85	03.0 +02.4	86	02.1 +02.5	87	01.3 +02.4	88	00.4 +02.5	88	59.5 +02.5	16
17	100	05.4 +02.5	101	04.6 +02.4	102	03.7 +02.5	103	02.9 +02.4	104	02.0 +02.5	17
18	115	07.9 +02.5	116	07.0 +02.5	117	06.2 +02.5	118	05.3 +02.5	119	04.5 +02.4	18
19	130	10.4 +02.4	131	09.5 +02.5	132	08.7 +02.4	133	07.8 +02.5	134	06.9 +02.5	19
20	145	12.8 +02.5	146	12.0 +02.4	147	11.1 +02.5	148	10.3 +02.4	149	09.4 +02.5	20
21	160	15.3 +02.5	161	14.4 +02.5	162	13.6 +02.4	163	12.7 +02.5	164	11.9 +02.4	21
22	175	17.8 +02.4	176	16.9 +02.5	177	16.0 +02.5	178	15.2 +02.4	179	14.3 +02.5	22
23	190	20.2 +02.5	191	19.4 +02.4	192	18.5 +02.5	193	17.6 +02.5	194	16.8 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.0	N 29 13.7	Gienah	175 43.0	S 17 41.1
Ankaa	353 07.4	S 42 10.0	Acrux	172 59.2	S 63 14.5
Schedir	349 31.4	N 56 40.4	Gacrux	171 51.0	S 57 15.3
Diphda	348 47.5	S 17 51.0	Alioth	166 12.3	N 55 49.3
Achernar	335 20.6	S 57 06.5	Spica	158 21.8	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.3	N 49 11.1
Polaris	314 25.8	N 89 22.3	Hadar	148 35.1	S 60 29.7
Acamar	315 12.0	S 40 12.3	Menkent	147 56.7	S 36 29.5
Menkar	314 06.2	N 04 11.3	Arcturus	145 47.0	N 19 03.7
Mirfak	308 28.4	N 49 57.1	Rigel Kentaurus	139 36.5	S 60 56.6
Aldebaran	290 39.7	N 16 33.7	Zubenelgenubi	136 55.4	S 16 08.9
Capella	280 21.9	N 46 01.7	Kocab	137 18.6	N 74 02.9
Rigel	281 03.9	S 08 10.5	Alphecca	126 03.3	N 26 37.6
Bellatrix	278 22.8	N 06 22.3	Antares	112 15.4	S 26 29.3
Elnath	278 01.8	N 28 37.8	Atria	107 09.0	S 69 04.2
Alnilam	275 37.7	S 01 11.2	Sabik	102 02.4	S 15 45.5
Betelgeuze	270 52.0	N 07 24.6	Shaula	96 09.9	S 37 07.3
Canopus	263 52.5	S 52 42.8	Rasalhague	95 58.2	N 12 32.4
Sirius	258 26.0	S 16 44.7	Etamin	90 41.8	N 51 28.8
Adhara	255 05.8	S 29 00.6	Kaus Australis	83 32.1	S 34 22.2
Castor	245 56.8	N 31 50.1	Vega	80 33.1	N 38 48.0
Procyon	244 50.4	N 05 10.0	Nunki	75 47.4	S 26 15.9
Pollux	243 16.7	N 27 58.0	Albireo	67 03.9	N 28 00.5
Avior	234 14.6	S 59 35.7	Altair	61 60.0	N 08 55.7
Suhail	222 46.0	S 43 32.3	Peacock	53 05.5	S 56 39.0
Miaplacidus	221 37.8	S 69 49.6	Deneb	49 25.8	N 45 21.9
Alphard	217 47.4	S 08 46.2	Enif	33 38.8	N 09 59.3
Regulus	207 33.9	N 11 50.6	Alnair	27 33.0	S 46 50.1
Dubhe	193 40.1	N 61 37.0	Formalhaut	15 14.7	S 29 29.2
Denebola	182 24.3	N 14 25.8	Markab	13 30.0	N 15 20.3

2025 - First Point of Aries / Selected Stars

UT	day 111 of 365 April 21		day 112 of 365 April 22		day 113 of 365 April 23		day 114 of 365 April 24		day 115 of 365 April 25		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	209 19.3	+02.4	210 18.4	+02.5	211 17.5	+02.5	212 16.7	+02.4	213 15.8	+02.5	00
01	224 21.7	+02.5	225 20.9	+02.4	226 20.0	+02.5	227 19.1	+02.5	228 18.3	+02.4	01
02	239 24.2	+02.4	240 23.3	+02.5	241 22.5	+02.4	242 21.6	+02.5	243 20.7	+02.5	02
03	254 26.6	+02.5	255 25.8	+02.4	256 24.9	+02.5	257 24.1	+02.4	258 23.2	+02.5	03
04	269 29.1	+02.5	270 28.2	+02.5	271 27.4	+02.5	272 26.5	+02.5	273 25.7	+02.4	04
05	284 31.6	+02.4	285 30.7	+02.5	286 29.9	+02.4	287 29.0	+02.5	288 28.1	+02.5	05
06	299 34.0	+02.5	300 33.2	+02.4	301 32.3	+02.5	302 31.5	+02.4	303 30.6	+02.5	06
07	314 36.5	+02.5	315 35.6	+02.5	316 34.8	+02.4	317 33.9	+02.5	318 33.1	+02.4	07
08	329 39.0	+02.4	330 38.1	+02.5	331 37.2	+02.5	332 36.4	+02.4	333 35.5	+02.5	08
09	344 41.4	+02.5	345 40.6	+02.4	346 39.7	+02.5	347 38.8	+02.5	348 38.0	+02.4	09
10	359 43.9	+02.5	0 43.0	+02.5	1 42.2	+02.4	2 41.3	+02.5	3 40.4	+02.5	10
11	14 46.4	+02.4	15 45.5	+02.5	16 44.6	+02.5	17 43.8	+02.4	18 42.9	+02.5	11
12	29 48.8	+02.5	30 48.0	+02.4	31 47.1	+02.5	32 46.2	+02.5	33 45.4	+02.4	12
13	44 51.3	+02.5	45 50.4	+02.5	46 49.6	+02.4	47 48.7	+02.5	48 47.8	+02.5	13
14	59 53.8	+02.4	60 52.9	+02.5	61 52.0	+02.5	62 51.2	+02.4	63 50.3	+02.5	14
15	74 56.2	+02.5	75 55.4	+02.4	76 54.5	+02.5	77 53.6	+02.5	78 52.8	+02.4	15
16	89 58.7	+02.4	90 57.8	+02.5	91 57.0	+02.4	92 56.1	+02.5	93 55.2	+02.5	16
17	105 01.1	+02.5	106 00.3	+02.4	106 59.4	+02.5	107 58.6	+02.4	108 57.7	+02.5	17
18	120 03.6	+02.5	121 02.7	+02.5	122 01.9	+02.4	123 01.0	+02.5	124 00.2	+02.4	18
19	135 06.1	+02.4	136 05.2	+02.5	137 04.3	+02.5	138 03.5	+02.4	139 02.6	+02.5	19
20	150 08.5	+02.5	151 07.7	+02.4	152 06.8	+02.5	153 05.9	+02.5	154 05.1	+02.5	20
21	165 11.0	+02.5	166 10.1	+02.5	167 09.3	+02.4	168 08.4	+02.5	169 07.6	+02.4	21
22	180 13.5	+02.4	181 12.6	+02.5	182 11.7	+02.5	183 10.9	+02.4	184 10.0	+02.5	22
23	195 15.9	+02.5	196 15.1	+02.4	197 14.2	+02.5	198 13.3	+02.5	199 12.5	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.7	Gienah	175 43.0	S 17 41.1
Ankaa	353 07.4	S 42 09.9	Acrux	172 59.2	S 63 14.5
Schedir	349 31.4	N 56 40.4	Gacrux	171 50.9	S 57 15.4
Diphda	348 47.5	S 17 50.9	Alioth	166 12.3	N 55 49.4
Achernar	335 20.6	S 57 06.5	Spica	158 21.7	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.3	N 49 11.1
Polaris	314 26.1	N 89 22.3	Hadar	148 35.1	S 60 29.8
Acamar	315 12.0	S 40 12.3	Menkent	147 56.7	S 36 29.5
Menkar	314 06.2	N 04 11.3	Arcturus	145 46.9	N 19 03.7
Mirfak	308 28.4	N 49 57.1	Rigel Kentaurus	139 36.4	S 60 56.6
Aldebaran	290 39.7	N 16 33.7	Zubenelgenubi	136 55.4	S 16 08.9
Capella	280 21.9	N 46 01.7	Kocab	137 18.5	N 74 02.9
Rigel	281 03.9	S 08 10.5	Alphecca	126 03.3	N 26 37.6
Bellatrix	278 22.8	N 06 22.3	Antares	112 15.4	S 26 29.3
Elnath	278 01.8	N 28 37.8	Atria	107 08.9	S 69 04.2
Alnilam	275 37.7	S 01 11.2	Sabik	102 02.3	S 15 45.5
Betelgeuze	270 52.0	N 07 24.7	Shaula	96 09.8	S 37 07.3
Canopus	263 52.6	S 52 42.8	Rasalhague	95 58.2	N 12 32.4
Sirius	258 26.0	S 16 44.7	Etamin	90 41.8	N 51 28.8
Adhara	255 05.8	S 29 00.6	Kaus Australis	83 32.0	S 34 22.2
Castor	245 56.8	N 31 50.1	Vega	80 33.0	N 38 48.0
Procyon	244 50.4	N 05 10.0	Nunki	75 47.4	S 26 15.9
Pollux	243 16.7	N 27 58.0	Albireo	67 03.8	N 28 00.5
Avior	234 14.6	S 59 35.7	Altair	61 59.9	N 08 55.7
Suhail	222 46.0	S 43 32.3	Peacock	53 05.4	S 56 39.0
Miaplacidus	221 37.9	S 69 49.6	Deneb	49 25.7	N 45 21.9
Alphard	217 47.4	S 08 46.2	Enif	33 38.7	N 09 59.3
Regulus	207 33.9	N 11 50.6	Alnair	27 32.9	S 46 50.1
Dubhe	193 40.1	N 61 37.0	Formalhaut	15 14.6	S 29 29.2
Denebola	182 24.3	N 14 25.8	Markab	13 29.9	N 15 20.3

2025 - First Point of Aries / Selected Stars

UT	day 116 of 365 <i>April 26</i>			day 117 of 365 <i>April 27</i>			day 118 of 365 <i>April 28</i>			day 119 of 365 <i>April 29</i>			day 120 of 365 <i>April 30</i>			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	214	14.9	+02.5	215	14.1	+02.4	216	13.2	+02.5	217	12.4	+02.4	218	11.5	+02.5	00
01	229	17.4	+02.5	230	16.5	+02.5	231	15.7	+02.4	232	14.8	+02.5	233	14.0	+02.4	01
02	244	19.9	+02.4	245	19.0	+02.5	246	18.1	+02.5	247	17.3	+02.5	248	16.4	+02.5	02
03	259	22.3	+02.5	260	21.5	+02.4	261	20.6	+02.5	262	19.8	+02.4	263	18.9	+02.5	03
04	274	24.8	+02.5	275	23.9	+02.5	276	23.1	+02.4	277	22.2	+02.5	278	21.4	+02.4	04
05	289	27.3	+02.4	290	26.4	+02.5	291	25.5	+02.5	292	24.7	+02.4	293	23.8	+02.5	05
06	304	29.7	+02.5	305	28.9	+02.4	306	28.0	+02.5	307	27.1	+02.5	308	26.3	+02.4	06
07	319	32.2	+02.5	320	31.3	+02.5	321	30.5	+02.4	322	29.6	+02.5	323	28.7	+02.5	07
08	334	34.7	+02.4	335	33.8	+02.5	336	32.9	+02.5	337	32.1	+02.4	338	31.2	+02.5	08
09	349	37.1	+02.5	350	36.3	+02.4	351	35.4	+02.5	352	34.5	+02.5	353	33.7	+02.4	09
10	4	39.6	+02.4	5	38.7	+02.5	6	37.9	+02.4	7	37.0	+02.5	8	36.1	+02.5	10
11	19	42.0	+02.5	20	41.2	+02.4	21	40.3	+02.5	22	39.5	+02.4	23	38.6	+02.5	11
12	34	44.5	+02.5	35	43.6	+02.5	36	42.8	+02.5	37	41.9	+02.5	38	41.1	+02.4	12
13	49	47.0	+02.4	50	46.1	+02.5	51	45.3	+02.4	52	44.4	+02.5	53	43.5	+02.5	13
14	64	49.4	+02.5	65	48.6	+02.4	66	47.7	+02.5	67	46.9	+02.4	68	46.0	+02.5	14
15	79	51.9	+02.5	80	51.0	+02.5	81	50.2	+02.4	82	49.3	+02.5	83	48.5	+02.4	15
16	94	54.4	+02.4	95	53.5	+02.5	96	52.6	+02.5	97	51.8	+02.4	98	50.9	+02.5	16
17	109	56.8	+02.5	110	56.0	+02.4	111	55.1	+02.5	112	54.2	+02.5	113	53.4	+02.5	17
18	124	59.3	+02.5	125	58.4	+02.5	126	57.6	+02.4	127	56.7	+02.5	128	55.9	+02.4	18
19	140	01.8	+02.4	141	00.9	+02.5	142	00.0	+02.5	142	59.2	+02.4	143	58.3	+02.5	19
20	155	04.2	+02.5	156	03.4	+02.4	157	02.5	+02.5	158	01.6	+02.5	159	00.8	+02.4	20
21	170	06.7	+02.5	171	05.8	+02.5	172	05.0	+02.4	173	04.1	+02.5	174	03.2	+02.5	21
22	185	09.2	+02.4	186	08.3	+02.5	187	07.4	+02.5	188	06.6	+02.4	189	05.7	+02.5	22
23	200	11.6	+02.5	201	10.8	+02.4	202	09.9	+02.5	203	09.0	+02.5	204	08.2	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.7	Gienah	175 43.0	S 17 41.1
Ankaa	353 07.4	S 42 09.9	Acrux	172 59.3	S 63 14.6
Schedir	349 31.4	N 56 40.4	Gacrux	171 51.0	S 57 15.4
Diphda	348 47.5	S 17 50.9	Alioth	166 12.3	N 55 49.4
Achernar	335 20.6	S 57 06.4	Spica	158 21.7	S 11 17.7
Hamal	327 51.4	N 23 34.9	Alkaid	152 51.3	N 49 11.2
Polaris	314 26.6	N 89 22.3	Hadar	148 35.1	S 60 29.8
Acamar	315 12.0	S 40 12.3	Menkent	147 56.6	S 36 29.5
Menkar	314 06.2	N 04 11.3	Arcturus	145 46.9	N 19 03.7
Mirfak	308 28.4	N 49 57.1	Rigel Kentaurus	139 36.4	S 60 56.7
Aldebaran	290 39.7	N 16 33.7	Zubenelgenubi	136 55.4	S 16 08.9
Capella	280 22.0	N 46 01.7	Kocab	137 18.5	N 74 03.0
Rigel	281 03.9	S 08 10.4	Alphecca	126 03.2	N 26 37.6
Bellatrix	278 22.9	N 06 22.3	Antares	112 15.4	S 26 29.3
Elnath	278 01.9	N 28 37.8	Atria	107 08.9	S 69 04.2
Alnilam	275 37.7	S 01 11.2	Sabik	102 02.3	S 15 45.5
Betelgeuze	270 52.1	N 07 24.7	Shaula	96 09.8	S 37 07.3
Canopus	263 52.6	S 52 42.8	Rasalhague	95 58.1	N 12 32.4
Sirius	258 26.0	S 16 44.7	Etamin	90 41.7	N 51 28.8
Adhara	255 05.8	S 29 00.6	Kaus Australis	83 32.0	S 34 22.2
Castor	245 56.8	N 31 50.1	Vega	80 33.0	N 38 48.0
Procyon	244 50.4	N 05 10.0	Nunki	75 47.3	S 26 15.9
Pollux	243 16.7	N 27 58.0	Albireo	67 03.8	N 28 00.5
Avior	234 14.7	S 59 35.7	Altair	61 59.9	N 08 55.8
Suhail	222 46.1	S 43 32.3	Peacock	53 05.3	S 56 39.0
Miaplacidus	221 37.9	S 69 49.6	Deneb	49 25.7	N 45 21.9
Alphard	217 47.5	S 08 46.2	Enif	33 38.7	N 09 59.3
Regulus	207 33.9	N 11 50.6	Alnair	27 32.9	S 46 50.1
Dubhe	193 40.2	N 61 37.0	Formalhaut	15 14.6	S 29 29.2
Denebola	182 24.3	N 14 25.8	Markab	13 29.9	N 15 20.3

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UT	day 121 of 365		day 122 of 365		day 123 of 365		day 124 of 365		day 125 of 365		UT					
	<i>May 1</i>		<i>May 2</i>		<i>May 3</i>		<i>May 4</i>		<i>May 5</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	219	10.6	+02.5	220	09.8	+02.4	221	08.9	+02.5	222	08.1	+02.4	223	07.2	+02.5	00
01	234	13.1	+02.5	235	12.2	+02.5	236	11.4	+02.5	237	10.5	+02.5	238	09.7	+02.4	01
02	249	15.6	+02.4	250	14.7	+02.5	251	13.9	+02.4	252	13.0	+02.5	253	12.1	+02.5	02
03	264	18.0	+02.5	265	17.2	+02.4	266	16.3	+02.5	267	15.5	+02.4	268	14.6	+02.5	03
04	279	20.5	+02.5	280	19.6	+02.5	281	18.8	+02.4	282	17.9	+02.5	283	17.1	+02.4	04
05	294	23.0	+02.4	295	22.1	+02.5	296	21.2	+02.5	297	20.4	+02.4	298	19.5	+02.5	05
06	309	25.4	+02.5	310	24.6	+02.4	311	23.7	+02.5	312	22.8	+02.5	313	22.0	+02.4	06
07	324	27.9	+02.5	325	27.0	+02.5	326	26.2	+02.4	327	25.3	+02.5	328	24.4	+02.5	07
08	339	30.4	+02.4	340	29.5	+02.5	341	28.6	+02.5	342	27.8	+02.4	343	26.9	+02.5	08
09	354	32.8	+02.5	355	32.0	+02.4	356	31.1	+02.5	357	30.2	+02.5	358	29.4	+02.4	09
10	9	35.3	+02.4	10	34.4	+02.5	11	33.6	+02.4	12	32.7	+02.5	13	31.8	+02.5	10
11	24	37.7	+02.5	25	36.9	+02.5	26	36.0	+02.5	27	35.2	+02.4	28	34.3	+02.5	11
12	39	40.2	+02.5	40	39.4	+02.4	41	38.5	+02.5	42	37.6	+02.5	43	36.8	+02.4	12
13	54	42.7	+02.4	55	41.8	+02.5	56	41.0	+02.4	57	40.1	+02.5	58	39.2	+02.5	13
14	69	45.1	+02.5	70	44.3	+02.4	71	43.4	+02.5	72	42.6	+02.4	73	41.7	+02.5	14
15	84	47.6	+02.5	85	46.7	+02.5	86	45.9	+02.4	87	45.0	+02.5	88	44.2	+02.4	15
16	99	50.1	+02.4	100	49.2	+02.5	101	48.3	+02.5	102	47.5	+02.5	103	46.6	+02.5	16
17	114	52.5	+02.5	115	51.7	+02.4	116	50.8	+02.5	117	50.0	+02.4	118	49.1	+02.5	17
18	129	55.0	+02.5	130	54.1	+02.5	131	53.3	+02.4	132	52.4	+02.5	133	51.6	+02.4	18
19	144	57.5	+02.4	145	56.6	+02.5	146	55.7	+02.5	147	54.9	+02.4	148	54.0	+02.5	19
20	159	59.9	+02.5	160	59.1	+02.4	161	58.2	+02.5	162	57.3	+02.5	163	56.5	+02.4	20
21	175	02.4	+02.5	176	01.5	+02.5	177	00.7	+02.4	178	59.8	+02.5	179	58.9	+02.5	21
22	190	04.9	+02.4	191	04.0	+02.5	192	03.1	+02.5	193	02.3	+02.4	194	01.4	+02.5	22
23	205	07.3	+02.5	206	06.5	+02.4	207	05.6	+02.5	208	04.7	+02.5	209	03.9	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.9	N 29	13.7	Gienah	175	43.0	S 17	41.1
Ankaa	353	07.4	S 42	09.9	Acrux	172	59.3	S 63	14.6
Schedir	349	31.3	N 56	40.4	Gacrux	171	51.0	S 57	15.4
Diphda	348	47.4	S 17	50.9	Alioth	166	12.3	N 55	49.4
Achernar	335	20.6	S 57	06.4	Spica	158	21.7	S 11	17.7
Hamal	327	51.4	N 23	34.9	Alkaid	152	51.3	N 49	11.2
Polaris	314	26.3	N 89	22.3	Hadar	148	35.0	S 60	29.8
Acamar	315	12.0	S 40	12.2	Menkent	147	56.6	S 36	29.5
Menkar	314	06.2	N 04	11.3	Arcturus	145	46.9	N 19	03.7
Mirfak	308	28.4	N 49	57.0	Rigel Kentaurus	139	36.4	S 60	56.7
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	22.0	N 46	01.7	Kocab	137	18.5	N 74	03.0
Rigel	281	03.9	S 08	10.4	Alphecca	126	03.2	N 26	37.6
Bellatrix	278	22.9	N 06	22.3	Antares	112	15.3	S 26	29.3
Elnath	278	01.9	N 28	37.8	Atria	107	08.8	S 69	04.2
Alnilam	275	37.7	S 01	11.2	Sabik	102	02.2	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.7	S 37	07.3
Canopus	263	52.6	S 52	42.8	Rasalhague	95	58.1	N 12	32.4
Sirius	258	26.0	S 16	44.7	Etamin	90	41.7	N 51	28.8
Adhara	255	05.8	S 29	00.6	Kaus Australis	83	31.9	S 34	22.2
Castor	245	56.8	N 31	50.1	Vega	80	32.9	N 38	48.0
Procyon	244	50.4	N 05	10.0	Nunki	75	47.3	S 26	15.9
Pollux	243	16.8	N 27	58.0	Albireo	67	03.8	N 28	00.5
Avior	234	14.7	S 59	35.7	Altair	61	59.8	N 08	55.8
Suhail	222	46.1	S 43	32.3	Peacock	53	05.3	S 56	39.0
Miaplacidus	221	38.0	S 69	49.6	Deneb	49	25.6	N 45	21.9
Alphard	217	47.5	S 08	46.2	Enif	33	38.7	N 09	59.3
Regulus	207	34.0	N 11	50.6	Alnair	27	32.8	S 46	50.1
Dubhe	193	40.2	N 61	37.1	Formalhaut	15	14.6	S 29	29.2
Denebola	182	24.3	N 14	25.8	Markab	13	29.9	N 15	20.3

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UT	day 126 of 365		day 127 of 365		day 128 of 365		day 129 of 365		day 130 of 365		UT					
	May 6		May 7		May 8		May 9		May 10							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	224	06.3	+02.5	225	05.5	+02.4	226	04.6	+02.5	227	03.8	+02.4	228	02.9	+02.5	00
01	239	08.8	+02.5	240	07.9	+02.5	241	07.1	+02.4	242	06.2	+02.5	243	05.4	+02.4	01
02	254	11.3	+02.4	255	10.4	+02.5	256	09.5	+02.5	257	08.7	+02.4	258	07.8	+02.5	02
03	269	13.7	+02.5	270	12.9	+02.4	271	12.0	+02.5	272	11.1	+02.5	273	10.3	+02.4	03
04	284	16.2	+02.5	285	15.3	+02.5	286	14.5	+02.4	287	13.6	+02.5	288	12.7	+02.5	04
05	299	18.7	+02.4	300	17.8	+02.5	301	16.9	+02.5	302	16.1	+02.4	303	15.2	+02.5	05
06	314	21.1	+02.5	315	20.3	+02.4	316	19.4	+02.5	317	18.5	+02.5	318	17.7	+02.4	06
07	329	23.6	+02.5	330	22.7	+02.5	331	21.9	+02.4	332	21.0	+02.5	333	20.1	+02.5	07
08	344	26.1	+02.4	345	25.2	+02.5	346	24.3	+02.5	347	23.5	+02.4	348	22.6	+02.5	08
09	359	28.5	+02.5	0	27.7	+02.4	1	26.8	+02.5	2	25.9	+02.5	3	25.1	+02.4	09
10	14	31.0	+02.4	15	30.1	+02.5	16	29.3	+02.4	17	28.4	+02.5	18	27.5	+02.5	10
11	29	33.4	+02.5	30	32.6	+02.4	31	31.7	+02.5	32	30.9	+02.4	33	30.0	+02.5	11
12	44	35.9	+02.5	45	35.0	+02.5	46	34.2	+02.4	47	33.3	+02.5	48	32.5	+02.4	12
13	59	38.4	+02.4	60	37.5	+02.5	61	36.6	+02.5	62	35.8	+02.4	63	34.9	+02.5	13
14	74	40.8	+02.5	75	40.0	+02.4	76	39.1	+02.5	77	38.2	+02.5	78	37.4	+02.5	14
15	89	43.3	+02.5	90	42.4	+02.5	91	41.6	+02.4	92	40.7	+02.5	93	39.9	+02.4	15
16	104	45.8	+02.4	105	44.9	+02.5	106	44.0	+02.5	107	43.2	+02.4	108	42.3	+02.5	16
17	119	48.2	+02.5	120	47.4	+02.4	121	46.5	+02.5	122	45.6	+02.5	123	44.8	+02.4	17
18	134	50.7	+02.5	135	49.8	+02.5	136	49.0	+02.4	137	48.1	+02.5	138	47.2	+02.5	18
19	149	53.2	+02.4	150	52.3	+02.5	151	51.4	+02.5	152	50.6	+02.4	153	49.7	+02.5	19
20	164	55.6	+02.5	165	54.8	+02.4	166	53.9	+02.5	167	53.0	+02.5	168	52.2	+02.4	20
21	179	58.1	+02.4	180	57.2	+02.5	181	56.4	+02.4	182	55.5	+02.5	183	54.6	+02.5	21
22	195	00.5	+02.5	195	59.7	+02.5	196	58.8	+02.5	197	58.0	+02.4	198	57.1	+02.5	22
23	210	03.0	+02.5	211	02.2	+02.4	212	01.3	+02.5	213	00.4	+02.5	213	59.6	+02.4	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	34.8	N 29	13.7	Gienah	175	43.0	S 17	41.1
Ankaa	353	07.3	S 42	09.9	Acrux	172	59.3	S 63	14.6
Schedir	349	31.3	N 56	40.4	Gacrux	171	51.0	S 57	15.4
Diphda	348	47.4	S 17	50.9	Alioth	166	12.4	N 55	49.4
Achernar	335	20.6	S 57	06.4	Spica	158	21.7	S 11	17.7
Hamal	327	51.3	N 23	34.9	Alkaid	152	51.3	N 49	11.2
Polaris	314	26.1	N 89	22.2	Hadar	148	35.0	S 60	29.8
Acamar	315	12.0	S 40	12.2	Menkent	147	56.6	S 36	29.5
Menkar	314	06.2	N 04	11.3	Arcturus	145	46.9	N 19	03.8
Mirfak	308	28.4	N 49	57.0	Rigel Kentaurus	139	36.4	S 60	56.7
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	22.0	N 46	01.6	Kocab	137	18.5	N 74	03.0
Rigel	281	03.9	S 08	10.4	Alphecca	126	03.2	N 26	37.7
Bellatrix	278	22.9	N 06	22.3	Antares	112	15.3	S 26	29.3
Elnath	278	01.9	N 28	37.8	Atria	107	08.7	S 69	04.3
Alnilam	275	37.7	S 01	11.2	Sabik	102	02.2	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.7	S 37	07.3
Canopus	263	52.7	S 52	42.7	Rasalhague	95	58.1	N 12	32.4
Sirius	258	26.0	S 16	44.7	Etamin	90	41.7	N 51	28.8
Adhara	255	05.9	S 29	00.5	Kaus Australis	83	31.9	S 34	22.2
Castor	245	56.8	N 31	50.1	Vega	80	32.9	N 38	48.0
Procyon	244	50.5	N 05	10.0	Nunki	75	47.2	S 26	15.9
Pollux	243	16.8	N 27	58.0	Albireo	67	03.7	N 28	00.5
Avior	234	14.8	S 59	35.7	Altair	61	59.8	N 08	55.8
Suhail	222	46.1	S 43	32.3	Peacock	53	05.2	S 56	39.0
Miaplacidus	221	38.1	S 69	49.6	Deneb	49	25.6	N 45	21.9
Alphard	217	47.5	S 08	46.2	Enif	33	38.6	N 09	59.3
Regulus	207	34.0	N 11	50.6	Alnair	27	32.8	S 46	50.1
Dubhe	193	40.2	N 61	37.1	Formalhaut	15	14.5	S 29	29.1
Denebola	182	24.3	N 14	25.8	Markab	13	29.8	N 15	20.3

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UT	day 131 of 365		day 132 of 365		day 133 of 365		day 134 of 365		day 135 of 365		UT					
	May 11		May 12		May 13		May 14		May 15							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	229	02.0	+02.5	230	01.2	+02.4	231	00.3	+02.5	231	59.4	+02.5	232	58.6	+02.4	00
01	244	04.5	+02.5	245	03.6	+02.5	246	02.8	+02.4	247	01.9	+02.5	248	01.0	+02.5	01
02	259	07.0	+02.4	260	06.1	+02.5	261	05.2	+02.5	262	04.4	+02.4	263	03.5	+02.5	02
03	274	09.4	+02.5	275	08.6	+02.4	276	07.7	+02.5	277	06.8	+02.5	278	06.0	+02.4	03
04	289	11.9	+02.4	290	11.0	+02.5	291	10.2	+02.4	292	09.3	+02.5	293	08.4	+02.5	04
05	304	14.3	+02.5	305	13.5	+02.5	306	12.6	+02.5	307	11.8	+02.4	308	10.9	+02.5	05
06	319	16.8	+02.5	320	16.0	+02.4	321	15.1	+02.5	322	14.2	+02.5	323	13.4	+02.4	06
07	334	19.3	+02.4	335	18.4	+02.5	336	17.6	+02.4	337	16.7	+02.5	338	15.8	+02.5	07
08	349	21.7	+02.5	350	20.9	+02.4	351	20.0	+02.5	352	19.2	+02.4	353	18.3	+02.5	08
09	4	24.2	+02.5	5	23.3	+02.5	6	22.5	+02.4	7	21.6	+02.5	8	20.8	+02.4	09
10	19	26.7	+02.4	20	25.8	+02.5	21	24.9	+02.5	22	24.1	+02.5	23	23.2	+02.5	10
11	34	29.1	+02.5	35	28.3	+02.4	36	27.4	+02.5	37	26.6	+02.4	38	25.7	+02.5	11
12	49	31.6	+02.5	50	30.7	+02.5	51	29.9	+02.4	52	29.0	+02.5	53	28.2	+02.4	12
13	64	34.1	+02.4	65	33.2	+02.5	66	32.3	+02.5	67	31.5	+02.4	68	30.6	+02.5	13
14	79	36.5	+02.5	80	35.7	+02.4	81	34.8	+02.5	82	33.9	+02.5	83	33.1	+02.4	14
15	94	39.0	+02.5	95	38.1	+02.5	96	37.3	+02.4	97	36.4	+02.5	98	35.5	+02.5	15
16	109	41.5	+02.4	110	40.6	+02.5	111	39.7	+02.5	112	38.9	+02.4	113	38.0	+02.5	16
17	124	43.9	+02.5	125	43.1	+02.4	126	42.2	+02.5	127	41.3	+02.5	128	40.5	+02.4	17
18	139	46.4	+02.4	140	45.5	+02.5	141	44.7	+02.4	142	43.8	+02.5	143	42.9	+02.5	18
19	154	48.8	+02.5	155	48.0	+02.4	156	47.1	+02.5	157	46.3	+02.4	158	45.4	+02.5	19
20	169	51.3	+02.5	170	50.4	+02.5	171	49.6	+02.5	172	48.7	+02.5	173	47.9	+02.4	20
21	184	53.8	+02.4	185	52.9	+02.5	186	52.1	+02.4	187	51.2	+02.5	188	50.3	+02.5	21
22	199	56.2	+02.5	200	55.4	+02.4	201	54.5	+02.5	202	53.7	+02.4	203	52.8	+02.5	22
23	214	58.7	+02.5	215	57.8	+02.5	216	57.0	+02.4	217	56.1	+02.5	218	55.3	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.8	N 29	13.7	Gienah	175	43.0	S 17	41.1
Ankaa	353	07.3	S 42	09.8	Acrux	172	59.3	S 63	14.6
Schedir	349	31.3	N 56	40.4	Gacrux	171	51.0	S 57	15.5
Diphda	348	47.4	S 17	50.9	Alioth	166	12.4	N 55	49.4
Achernar	335	20.6	S 57	06.4	Spica	158	21.7	S 11	17.7
Hamal	327	51.3	N 23	34.9	Alkaid	152	51.3	N 49	11.2
Polaris	314	25.8	N 89	22.2	Hadar	148	35.0	S 60	29.9
Acamar	315	12.0	S 40	12.2	Menkent	147	56.6	S 36	29.5
Menkar	314	06.2	N 04	11.3	Arcturus	145	46.9	N 19	03.8
Mirfak	308	28.4	N 49	57.0	Rigel Kentaurus	139	36.4	S 60	56.7
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	22.0	N 46	01.6	Kocab	137	18.5	N 74	03.0
Rigel	281	03.9	S 08	10.4	Alphecca	126	03.2	N 26	37.7
Bellatrix	278	22.9	N 06	22.3	Antares	112	15.3	S 26	29.3
Elnath	278	01.9	N 28	37.8	Atria	107	08.7	S 69	04.3
Alnilam	275	37.8	S 01	11.2	Sabik	102	02.2	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.7	S 37	07.3
Canopus	263	52.7	S 52	42.7	Rasalhague	95	58.1	N 12	32.4
Sirius	258	26.0	S 16	44.7	Etamin	90	41.6	N 51	28.9
Adhara	255	05.9	S 29	00.5	Kaus Australis	83	31.9	S 34	22.2
Castor	245	56.8	N 31	50.1	Vega	80	32.9	N 38	48.0
Procyon	244	50.5	N 05	10.0	Nunki	75	47.2	S 26	15.9
Pollux	243	16.8	N 27	58.0	Albireo	67	03.7	N 28	00.5
Avior	234	14.8	S 59	35.7	Altair	61	59.8	N 08	55.8
Suhail	222	46.2	S 43	32.3	Peacock	53	05.1	S 56	39.0
Miaplacidus	221	38.2	S 69	49.6	Deneb	49	25.6	N 45	21.9
Alphard	217	47.5	S 08	46.2	Enif	33	38.6	N 09	59.3
Regulus	207	34.0	N 11	50.6	Alnair	27	32.7	S 46	50.1
Dubhe	193	40.3	N 61	37.1	Formalhaut	15	14.5	S 29	29.1
Denebola	182	24.3	N 14	25.8	Markab	13	29.8	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 136 of 365			day 137 of 365			day 138 of 365			day 139 of 365			day 140 of 365			UT
	May 16			May 17			May 18			May 19			May 20			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	233	57.7	+02.5	234	56.9	+02.4	235	56.0	+02.5	236	55.1	+02.5	237	54.3	+02.5	00
01	249	00.2	+02.5	249	59.3	+02.5	250	58.5	+02.4	251	57.6	+02.5	252	56.8	+02.4	01
02	264	02.7	+02.4	265	01.8	+02.5	266	00.9	+02.5	267	00.1	+02.4	267	59.2	+02.5	02
03	279	05.1	+02.5	280	04.3	+02.4	281	03.4	+02.5	282	02.5	+02.5	283	01.7	+02.4	03
04	294	07.6	+02.4	295	06.7	+02.5	296	05.9	+02.4	297	05.0	+02.5	298	04.1	+02.5	04
05	309	10.0	+02.5	310	09.2	+02.5	311	08.3	+02.5	312	07.5	+02.4	313	06.6	+02.5	05
06	324	12.5	+02.5	325	11.7	+02.4	326	10.8	+02.5	327	09.9	+02.5	328	09.1	+02.4	06
07	339	15.0	+02.4	340	14.1	+02.5	341	13.3	+02.4	342	12.4	+02.5	343	11.5	+02.5	07
08	354	17.4	+02.5	355	16.6	+02.4	356	15.7	+02.5	357	14.9	+02.4	358	14.0	+02.5	08
09	9	19.9	+02.5	10	19.0	+02.5	11	18.2	+02.4	12	17.3	+02.5	13	16.5	+02.4	09
10	24	22.4	+02.4	25	21.5	+02.5	26	20.6	+02.5	27	19.8	+02.5	28	18.9	+02.5	10
11	39	24.8	+02.5	40	24.0	+02.4	41	23.1	+02.5	42	22.3	+02.4	43	21.4	+02.5	11
12	54	27.3	+02.5	55	26.4	+02.5	56	25.6	+02.4	57	24.7	+02.5	58	23.9	+02.4	12
13	69	29.8	+02.4	70	28.9	+02.5	71	28.0	+02.5	72	27.2	+02.4	73	26.3	+02.5	13
14	84	32.2	+02.5	85	31.4	+02.4	86	30.5	+02.5	87	29.6	+02.5	88	28.8	+02.4	14
15	99	34.7	+02.5	100	33.8	+02.5	101	33.0	+02.4	102	32.1	+02.5	103	31.2	+02.5	15
16	114	37.2	+02.4	115	36.3	+02.5	116	35.4	+02.5	117	34.6	+02.4	118	33.7	+02.5	16
17	129	39.6	+02.5	130	38.8	+02.4	131	37.9	+02.5	132	37.0	+02.5	133	36.2	+02.4	17
18	144	42.1	+02.4	145	41.2	+02.5	146	40.4	+02.4	147	39.5	+02.5	148	38.6	+02.5	18
19	159	44.5	+02.5	160	43.7	+02.5	161	42.8	+02.5	162	42.0	+02.4	163	41.1	+02.5	19
20	174	47.0	+02.5	175	46.2	+02.4	176	45.3	+02.5	177	44.4	+02.5	178	43.6	+02.4	20
21	189	49.5	+02.4	190	48.6	+02.5	191	47.8	+02.4	192	46.9	+02.5	193	46.0	+02.5	21
22	204	51.9	+02.5	205	51.1	+02.4	206	50.2	+02.5	207	49.4	+02.4	208	48.5	+02.5	22
23	219	54.4	+02.5	220	53.5	+02.5	221	52.7	+02.4	222	51.8	+02.5	223	51.0	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.8	N 29	13.7	Gienah	175	43.0	S 17	41.1
Ankaa	353	07.3	S 42	09.8	Acrux	172	59.3	S 63	14.6
Schedir	349	31.2	N 56	40.4	Gacrux	171	51.0	S 57	15.5
Diphda	348	47.4	S 17	50.8	Alioth	166	12.4	N 55	49.5
Achernar	335	20.5	S 57	06.3	Spica	158	21.7	S 11	17.7
Hamal	327	51.3	N 23	34.9	Alkaid	152	51.3	N 49	11.3
Polaris	314	24.9	N 89	22.2	Hadar	148	35.0	S 60	29.9
Acamar	315	11.9	S 40	12.2	Menkent	147	56.6	S 36	29.5
Menkar	314	06.2	N 04	11.3	Arcturus	145	46.9	N 19	03.8
Mirfak	308	28.4	N 49	57.0	Rigel Kentaurus	139	36.3	S 60	56.7
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	22.0	N 46	01.6	Kocab	137	18.6	N 74	03.1
Rigel	281	03.9	S 08	10.4	Alphecca	126	03.2	N 26	37.7
Bellatrix	278	22.9	N 06	22.3	Antares	112	15.3	S 26	29.3
Elnath	278	01.9	N 28	37.8	Atria	107	08.6	S 69	04.3
Alnilam	275	37.8	S 01	11.2	Sabik	102	02.2	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.6	S 37	07.3
Canopus	263	52.7	S 52	42.7	Rasalhague	95	58.0	N 12	32.4
Sirius	258	26.0	S 16	44.6	Etamin	90	41.6	N 51	28.9
Adhara	255	05.9	S 29	00.5	Kaus Australis	83	31.8	S 34	22.2
Castor	245	56.9	N 31	50.1	Vega	80	32.8	N 38	48.1
Procyon	244	50.5	N 05	10.0	Nunki	75	47.2	S 26	15.9
Pollux	243	16.8	N 27	58.0	Albireo	67	03.6	N 28	00.5
Avior	234	14.9	S 59	35.7	Altair	61	59.7	N 08	55.8
Suhail	222	46.2	S 43	32.3	Peacock	53	05.1	S 56	38.9
Miaplacidus	221	38.2	S 69	49.6	Deneb	49	25.5	N 45	21.9
Alphard	217	47.5	S 08	46.2	Enif	33	38.5	N 09	59.3
Regulus	207	34.0	N 11	50.6	Alnair	27	32.7	S 46	50.0
Dubhe	193	40.3	N 61	37.1	Formalhaut	15	14.5	S 29	29.1
Denebola	182	24.3	N 14	25.9	Markab	13	29.8	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 141 of 365		day 142 of 365		day 143 of 365		day 144 of 365		day 145 of 365		UT					
	May 21		May 22		May 23		May 24		May 25							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	238	53.4	+02.5	239	52.6	+02.4	240	51.7	+02.5	241	50.8	+02.5	242	50.0	+02.4	00
01	253	55.9	+02.5	254	55.0	+02.5	255	54.2	+02.4	256	53.3	+02.5	257	52.4	+02.5	01
02	268	58.4	+02.4	269	57.5	+02.5	270	56.6	+02.5	271	55.8	+02.4	272	54.9	+02.5	02
03	284	00.8	+02.5	284	60.0	+02.4	285	59.1	+02.5	286	58.2	+02.5	287	57.4	+02.4	03
04	299	03.3	+02.4	300	02.4	+02.5	301	01.6	+02.4	302	00.7	+02.5	302	59.8	+02.5	04
05	314	05.7	+02.5	315	04.9	+02.4	316	04.0	+02.5	317	03.2	+02.4	318	02.3	+02.5	05
06	329	08.2	+02.5	330	07.3	+02.5	331	06.5	+02.4	332	05.6	+02.5	333	04.8	+02.4	06
07	344	10.7	+02.4	345	09.8	+02.5	346	08.9	+02.5	347	08.1	+02.5	348	07.2	+02.5	07
08	359	13.1	+02.5	0	12.3	+02.4	1	11.4	+02.5	2	10.6	+02.4	3	09.7	+02.5	08
09	14	15.6	+02.5	15	14.7	+02.5	16	13.9	+02.4	17	13.0	+02.5	18	12.2	+02.4	09
10	29	18.1	+02.4	30	17.2	+02.5	31	16.3	+02.5	32	15.5	+02.4	33	14.6	+02.5	10
11	44	20.5	+02.5	45	19.7	+02.4	46	18.8	+02.5	47	17.9	+02.5	48	17.1	+02.4	11
12	59	23.0	+02.5	60	22.1	+02.5	61	21.3	+02.4	62	20.4	+02.5	63	19.5	+02.5	12
13	74	25.5	+02.4	75	24.6	+02.5	76	23.7	+02.5	77	22.9	+02.4	78	22.0	+02.5	13
14	89	27.9	+02.5	90	27.1	+02.4	91	26.2	+02.5	92	25.3	+02.5	93	24.5	+02.4	14
15	104	30.4	+02.4	105	29.5	+02.5	106	28.7	+02.4	107	27.8	+02.5	108	26.9	+02.5	15
16	119	32.8	+02.5	120	32.0	+02.5	121	31.1	+02.5	122	30.3	+02.4	123	29.4	+02.5	16
17	134	35.3	+02.5	135	34.5	+02.4	136	33.6	+02.5	137	32.7	+02.5	138	31.9	+02.4	17
18	149	37.8	+02.4	150	36.9	+02.5	151	36.1	+02.4	152	35.2	+02.5	153	34.3	+02.5	18
19	164	40.2	+02.5	165	39.4	+02.4	166	38.5	+02.5	167	37.7	+02.4	168	36.8	+02.5	19
20	179	42.7	+02.5	180	41.8	+02.5	181	41.0	+02.4	182	40.1	+02.5	183	39.3	+02.4	20
21	194	45.2	+02.4	195	44.3	+02.5	196	43.4	+02.5	197	42.6	+02.4	198	41.7	+02.5	21
22	209	47.6	+02.5	210	46.8	+02.4	211	45.9	+02.5	212	45.0	+02.5	213	44.2	+02.5	22
23	224	50.1	+02.5	225	49.2	+02.5	226	48.4	+02.4	227	47.5	+02.5	228	46.7	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.7	N 29	13.7	Gienah	175	43.1	S 17	41.1
Ankaa	353	07.2	S 42	09.8	Acrux	172	59.4	S 63	14.7
Schedir	349	31.2	N 56	40.4	Gacrux	171	51.0	S 57	15.5
Diphda	348	47.3	S 17	50.8	Alioth	166	12.4	N 55	49.5
Achernar	335	20.5	S 57	06.3	Spica	158	21.7	S 11	17.7
Hamal	327	51.3	N 23	34.9	Alkaid	152	51.3	N 49	11.3
Polaris	314	24.2	N 89	22.2	Hadar	148	35.0	S 60	29.9
Acamar	315	11.9	S 40	12.1	Menkent	147	56.6	S 36	29.6
Menkar	314	06.2	N 04	11.3	Arcturus	145	46.9	N 19	03.8
Mirfak	308	28.4	N 49	57.0	Rigel Kentaurus	139	36.3	S 60	56.8
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	22.0	N 46	01.6	Kocab	137	18.6	N 74	03.1
Rigel	281	03.9	S 08	10.4	Alphecca	126	03.2	N 26	37.7
Bellatrix	278	22.9	N 06	22.3	Antares	112	15.2	S 26	29.3
Elnath	278	01.9	N 28	37.8	Atria	107	08.6	S 69	04.3
Alnilam	275	37.8	S 01	11.2	Sabik	102	02.1	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.6	S 37	07.3
Canopus	263	52.7	S 52	42.7	Rasalhague	95	58.0	N 12	32.5
Sirius	258	26.1	S 16	44.6	Etamin	90	41.6	N 51	28.9
Adhara	255	05.9	S 29	00.5	Kaus Australis	83	31.8	S 34	22.2
Castor	245	56.9	N 31	50.1	Vega	80	32.8	N 38	48.1
Procyon	244	50.5	N 05	10.0	Nunki	75	47.1	S 26	15.9
Pollux	243	16.8	N 27	58.0	Albireo	67	03.6	N 28	00.5
Avior	234	14.9	S 59	35.7	Altair	61	59.7	N 08	55.8
Suhail	222	46.2	S 43	32.3	Peacock	53	05.0	S 56	38.9
Miaplacidus	221	38.3	S 69	49.6	Deneb	49	25.5	N 45	21.9
Alphard	217	47.5	S 08	46.2	Enif	33	38.5	N 09	59.3
Regulus	207	34.0	N 11	50.6	Alnair	27	32.6	S 46	50.0
Dubhe	193	40.3	N 61	37.1	Formalhaut	15	14.4	S 29	29.1
Denebola	182	24.3	N 14	25.9	Markab	13	29.7	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 146 of 365		day 147 of 365		day 148 of 365		day 149 of 365		day 150 of 365		UT					
	May 26		May 27		May 28		May 29		May 30							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	243	49.1	+02.5	244	48.3	+02.4	245	47.4	+02.5	246	46.5	+02.5	247	45.7	+02.4	00
01	258	51.6	+02.4	259	50.7	+02.5	260	49.9	+02.4	261	49.0	+02.5	262	48.1	+02.5	01
02	273	54.0	+02.5	274	53.2	+02.4	275	52.3	+02.5	276	51.5	+02.4	277	50.6	+02.5	02
03	288	56.5	+02.5	289	55.6	+02.5	290	54.8	+02.5	291	53.9	+02.5	292	53.1	+02.4	03
04	303	59.0	+02.4	304	58.1	+02.5	305	57.3	+02.4	306	56.4	+02.5	307	55.5	+02.5	04
05	319	01.4	+02.5	320	00.6	+02.4	320	59.7	+02.5	321	58.9	+02.4	322	58.0	+02.5	05
06	334	03.9	+02.5	335	03.0	+02.5	336	02.2	+02.4	337	01.3	+02.5	338	00.5	+02.4	06
07	349	06.4	+02.4	350	05.5	+02.5	351	04.6	+02.5	352	03.8	+02.5	353	02.9	+02.5	07
08	4	08.8	+02.5	5	08.0	+02.4	6	07.1	+02.5	7	06.3	+02.4	8	05.4	+02.5	08
09	19	11.3	+02.5	20	10.4	+02.5	21	09.6	+02.4	22	08.7	+02.5	23	07.9	+02.4	09
10	34	13.8	+02.4	35	12.9	+02.5	36	12.0	+02.5	37	11.2	+02.4	38	10.3	+02.5	10
11	49	16.2	+02.5	50	15.4	+02.4	51	14.5	+02.5	52	13.6	+02.5	53	12.8	+02.5	11
12	64	18.7	+02.5	65	17.8	+02.5	66	17.0	+02.4	67	16.1	+02.5	68	15.3	+02.4	12
13	79	21.2	+02.4	80	20.3	+02.5	81	19.4	+02.5	82	18.6	+02.4	83	17.7	+02.5	13
14	94	23.6	+02.5	95	22.8	+02.4	96	21.9	+02.5	97	21.0	+02.5	98	20.2	+02.4	14
15	109	26.1	+02.4	110	25.2	+02.5	111	24.4	+02.4	112	23.5	+02.5	113	22.6	+02.5	15
16	124	28.5	+02.5	125	27.7	+02.4	126	26.8	+02.5	127	26.0	+02.4	128	25.1	+02.5	16
17	139	31.0	+02.5	140	30.1	+02.5	141	29.3	+02.5	142	28.4	+02.5	143	27.6	+02.4	17
18	154	33.5	+02.4	155	32.6	+02.5	156	31.8	+02.4	157	30.9	+02.5	158	30.0	+02.5	18
19	169	35.9	+02.5	170	35.1	+02.4	171	34.2	+02.5	172	33.4	+02.4	173	32.5	+02.5	19
20	184	38.4	+02.5	185	37.5	+02.5	186	36.7	+02.4	187	35.8	+02.5	188	35.0	+02.4	20
21	199	40.9	+02.4	200	40.0	+02.5	201	39.1	+02.5	202	38.3	+02.5	203	37.4	+02.5	21
22	214	43.3	+02.5	215	42.5	+02.4	216	41.6	+02.5	217	40.8	+02.4	218	39.9	+02.5	22
23	229	45.8	+02.5	230	44.9	+02.5	231	44.1	+02.4	232	43.2	+02.5	233	42.4	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.7	N 29	13.7	Gienah	175	43.1	S 17	41.1
Ankaa	353	07.2	S 42	09.8	Acrux	172	59.4	S 63	14.7
Schedir	349	31.1	N 56	40.4	Gacrux	171	51.1	S 57	15.5
Diphda	348	47.3	S 17	50.8	Alioth	166	12.4	N 55	49.5
Achernar	335	20.5	S 57	06.3	Spica	158	21.7	S 11	17.7
Hamal	327	51.2	N 23	34.9	Alkaid	152	51.3	N 49	11.3
Polaris	314	23.1	N 89	22.1	Hadar	148	35.0	S 60	29.9
Acamar	315	11.9	S 40	12.1	Menkent	147	56.6	S 36	29.6
Menkar	314	06.2	N 04	11.3	Arcturus	145	46.9	N 19	03.8
Mirfak	308	28.4	N 49	57.0	Rigel Kentaurus	139	36.3	S 60	56.8
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	22.0	N 46	01.6	Kocab	137	18.6	N 74	03.1
Rigel	281	03.9	S 08	10.4	Alphecca	126	03.2	N 26	37.7
Bellatrix	278	22.9	N 06	22.3	Antares	112	15.2	S 26	29.3
Elnath	278	01.9	N 28	37.8	Atria	107	08.5	S 69	04.3
Alnilam	275	37.8	S 01	11.2	Sabik	102	02.1	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.6	S 37	07.3
Canopus	263	52.8	S 52	42.7	Rasalhague	95	58.0	N 12	32.5
Sirius	258	26.1	S 16	44.6	Etamin	90	41.5	N 51	28.9
Adhara	255	05.9	S 29	00.5	Kaus Australis	83	31.8	S 34	22.2
Castor	245	56.9	N 31	50.1	Vega	80	32.8	N 38	48.1
Procyon	244	50.5	N 05	10.0	Nunki	75	47.1	S 26	15.9
Pollux	243	16.8	N 27	58.0	Albireo	67	03.6	N 28	00.6
Avior	234	15.0	S 59	35.7	Altair	61	59.7	N 08	55.8
Suhail	222	46.2	S 43	32.3	Peacock	53	05.0	S 56	38.9
Miaplacidus	221	38.4	S 69	49.6	Deneb	49	25.4	N 45	22.0
Alphard	217	47.6	S 08	46.2	Enif	33	38.5	N 09	59.4
Regulus	207	34.0	N 11	50.6	Alnair	27	32.6	S 46	50.0
Dubhe	193	40.4	N 61	37.1	Formalhaut	15	14.4	S 29	29.1
Denebola	182	24.3	N 14	25.9	Markab	13	29.7	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 151 of 365 May 31		day 152 of 365 June 1		day 153 of 365 June 2		day 154 of 365 June 3		day 155 of 365 June 4		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	
00	248 44.8	+02.5	249 44.0	+02.4	250 43.1	+02.5	251 42.2	+02.5	252 41.4	+02.4	00
01	263 47.3	+02.5	264 46.4	+02.5	265 45.6	+02.4	266 44.7	+02.5	267 43.8	+02.5	01
02	278 49.8	+02.4	279 48.9	+02.5	280 48.0	+02.5	281 47.2	+02.4	282 46.3	+02.5	02
03	293 52.2	+02.5	294 51.4	+02.4	295 50.5	+02.5	296 49.6	+02.5	297 48.8	+02.4	03
04	308 54.7	+02.4	309 53.8	+02.5	310 53.0	+02.4	311 52.1	+02.5	312 51.2	+02.5	04
05	323 57.1	+02.5	324 56.3	+02.4	325 55.4	+02.5	326 54.6	+02.4	327 53.7	+02.5	05
06	338 59.6	+02.5	339 58.7	+02.5	340 57.9	+02.5	341 57.0	+02.5	342 56.2	+02.4	06
07	354 02.1	+02.4	355 01.2	+02.5	356 00.4	+02.4	356 59.5	+02.5	357 58.6	+02.5	07
08	9 04.5	+02.5	10 03.7	+02.4	11 02.8	+02.5	12 02.0	+02.4	13 01.1	+02.5	08
09	24 07.0	+02.5	25 06.1	+02.5	26 05.3	+02.4	27 04.4	+02.5	28 03.6	+02.4	09
10	39 09.5	+02.4	40 08.6	+02.5	41 07.7	+02.5	42 06.9	+02.4	43 06.0	+02.5	10
11	54 11.9	+02.5	55 11.1	+02.4	56 10.2	+02.5	57 09.3	+02.5	58 08.5	+02.4	11
12	69 14.4	+02.5	70 13.5	+02.5	71 12.7	+02.4	72 11.8	+02.5	73 10.9	+02.5	12
13	84 16.9	+02.4	85 16.0	+02.5	86 15.1	+02.5	87 14.3	+02.4	88 13.4	+02.5	13
14	99 19.3	+02.5	100 18.5	+02.4	101 17.6	+02.5	102 16.7	+02.5	103 15.9	+02.4	14
15	114 21.8	+02.4	115 20.9	+02.5	116 20.1	+02.4	117 19.2	+02.5	118 18.3	+02.5	15
16	129 24.2	+02.5	130 23.4	+02.5	131 22.5	+02.5	132 21.7	+02.4	133 20.8	+02.5	16
17	144 26.7	+02.5	145 25.9	+02.4	146 25.0	+02.5	147 24.1	+02.5	148 23.3	+02.4	17
18	159 29.2	+02.4	160 28.3	+02.5	161 27.5	+02.4	162 26.6	+02.5	163 25.7	+02.5	18
19	174 31.6	+02.5	175 30.8	+02.4	176 29.9	+02.5	177 29.1	+02.4	178 28.2	+02.5	19
20	189 34.1	+02.5	190 33.2	+02.5	191 32.4	+02.4	192 31.5	+02.5	193 30.7	+02.4	20
21	204 36.6	+02.4	205 35.7	+02.5	206 34.8	+02.5	207 34.0	+02.5	208 33.1	+02.5	21
22	219 39.0	+02.5	220 38.2	+02.4	221 37.3	+02.5	222 36.5	+02.4	223 35.6	+02.5	22
23	234 41.5	+02.5	235 40.6	+02.5	236 39.8	+02.4	237 38.9	+02.5	238 38.1	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.7	N 29 13.7	Gienah	175 43.1	S 17 41.1
Ankaa	353 07.1	S 42 09.7	Acrux	172 59.4	S 63 14.7
Schedir	349 31.0	N 56 40.4	Gacrux	171 51.1	S 57 15.5
Diphda	348 47.2	S 17 50.8	Alioth	166 12.5	N 55 49.5
Achernar	335 20.4	S 57 06.2	Spica	158 21.7	S 11 17.7
Hamal	327 51.2	N 23 34.9	Alkaid	152 51.3	N 49 11.3
Polaris	314 21.5	N 89 22.1	Hadar	148 35.0	S 60 29.9
Acamar	315 11.9	S 40 12.1	Menkent	147 56.6	S 36 29.6
Menkar	314 06.1	N 04 11.4	Arcturus	145 46.9	N 19 03.8
Mirfak	308 28.3	N 49 57.0	Rigel Kentaurus	139 36.3	S 60 56.8
Aldebaran	290 39.6	N 16 33.7	Zubenelgenubi	136 55.3	S 16 08.9
Capella	280 21.9	N 46 01.6	Kocab	137 18.7	N 74 03.1
Rigel	281 03.9	S 08 10.4	Alphecca	126 03.2	N 26 37.7
Bellatrix	278 22.9	N 06 22.3	Antares	112 15.2	S 26 29.3
Elnath	278 01.9	N 28 37.8	Atria	107 08.5	S 69 04.4
Alnilam	275 37.7	S 01 11.2	Sabik	102 02.1	S 15 45.5
Betelgeuze	270 52.1	N 07 24.7	Shaula	96 09.5	S 37 07.3
Canopus	263 52.8	S 52 42.6	Rasalhague	95 58.0	N 12 32.5
Sirius	258 26.1	S 16 44.6	Etamin	90 41.5	N 51 29.0
Adhara	255 05.9	S 29 00.5	Kaus Australis	83 31.7	S 34 22.3
Castor	245 56.9	N 31 50.1	Vega	80 32.7	N 38 48.1
Procyon	244 50.5	N 05 10.0	Nunki	75 47.1	S 26 15.8
Pollux	243 16.8	N 27 58.0	Albireo	67 03.5	N 28 00.6
Avior	234 15.0	S 59 35.7	Altair	61 59.6	N 08 55.9
Suhail	222 46.3	S 43 32.3	Peacock	53 04.9	S 56 38.9
Miaplacidus	221 38.4	S 69 49.6	Deneb	49 25.4	N 45 22.0
Alphard	217 47.6	S 08 46.2	Enif	33 38.4	N 09 59.4
Regulus	207 34.0	N 11 50.6	Alnair	27 32.5	S 46 50.0
Dubhe	193 40.4	N 61 37.1	Formalhaut	15 14.3	S 29 29.1
Denebola	182 24.3	N 14 25.9	Markab	13 29.6	N 15 20.4

2025 - First Point of Aries / Selected Stars

UT	day 156 of 365		day 157 of 365		day 158 of 365		day 159 of 365		day 160 of 365		UT					
	<i>June 5</i>		<i>June 6</i>		<i>June 7</i>		<i>June 8</i>		<i>June 9</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	253	40.5	+02.5	254	39.7	+02.4	255	38.8	+02.5	256	37.9	+02.5	257	37.1	+02.4	00
01	268	43.0	+02.4	269	42.1	+02.5	270	41.3	+02.4	271	40.4	+02.5	272	39.5	+02.5	01
02	283	45.4	+02.5	284	44.6	+02.4	285	43.7	+02.5	286	42.9	+02.4	287	42.0	+02.5	02
03	298	47.9	+02.5	299	47.0	+02.5	300	46.2	+02.4	301	45.3	+02.5	302	44.5	+02.4	03
04	313	50.4	+02.4	314	49.5	+02.5	315	48.6	+02.5	316	47.8	+02.5	317	46.9	+02.5	04
05	328	52.8	+02.5	329	52.0	+02.4	330	51.1	+02.5	331	50.3	+02.4	332	49.4	+02.5	05
06	343	55.3	+02.5	344	54.4	+02.5	345	53.6	+02.4	346	52.7	+02.5	347	51.9	+02.4	06
07	358	57.8	+02.4	359	56.9	+02.5	0	56.0	+02.5	1	55.2	+02.4	2	54.3	+02.5	07
08	14	00.2	+02.5	14	59.4	+02.4	15	58.5	+02.5	16	57.6	+02.5	17	56.8	+02.4	08
09	29	02.7	+02.5	30	01.8	+02.5	31	01.0	+02.4	32	00.1	+02.5	32	59.2	+02.5	09
10	44	05.2	+02.4	45	04.3	+02.5	46	03.4	+02.5	47	02.6	+02.4	48	01.7	+02.5	10
11	59	07.6	+02.5	60	06.8	+02.4	61	05.9	+02.5	62	05.0	+02.5	63	04.2	+02.4	11
12	74	10.1	+02.4	75	09.2	+02.5	76	08.4	+02.4	77	07.5	+02.5	78	06.6	+02.5	12
13	89	12.5	+02.5	90	11.7	+02.5	91	10.8	+02.5	92	10.0	+02.4	93	09.1	+02.5	13
14	104	15.0	+02.5	105	14.2	+02.4	106	13.3	+02.5	107	12.4	+02.5	108	11.6	+02.4	14
15	119	17.5	+02.4	120	16.6	+02.5	121	15.8	+02.4	122	14.9	+02.5	123	14.0	+02.5	15
16	134	19.9	+02.5	135	19.1	+02.4	136	18.2	+02.5	137	17.4	+02.4	138	16.5	+02.5	16
17	149	22.4	+02.5	150	21.5	+02.5	151	20.7	+02.4	152	19.8	+02.5	153	19.0	+02.4	17
18	164	24.9	+02.4	165	24.0	+02.5	166	23.1	+02.5	167	22.3	+02.4	168	21.4	+02.5	18
19	179	27.3	+02.5	180	26.5	+02.4	181	25.6	+02.5	182	24.7	+02.5	183	23.9	+02.5	19
20	194	29.8	+02.5	195	28.9	+02.5	196	28.1	+02.4	197	27.2	+02.5	198	26.4	+02.4	20
21	209	32.3	+02.4	210	31.4	+02.5	211	30.5	+02.5	212	29.7	+02.4	213	28.8	+02.5	21
22	224	34.7	+02.5	225	33.9	+02.4	226	33.0	+02.5	227	32.1	+02.5	228	31.3	+02.4	22
23	239	37.2	+02.5	240	36.3	+02.5	241	35.5	+02.4	242	34.6	+02.5	243	33.7	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	34.6	N 29	13.7	Gienah	175	43.1	S 17	41.1
Ankaa	353	07.1	S 42	09.7	Acrux	172	59.5	S 63	14.7
Schedir	349	31.0	N 56	40.4	Gacrux	171	51.1	S 57	15.5
Diphda	348	47.2	S 17	50.8	Alioth	166	12.5	N 55	49.5
Achernar	335	20.4	S 57	06.2	Spica	158	21.7	S 11	17.7
Hamal	327	51.2	N 23	34.9	Alkaid	152	51.3	N 49	11.3
Polaris	314	20.3	N 89	22.1	Hadar	148	35.1	S 60	30.0
Acamar	315	11.9	S 40	12.1	Menkent	147	56.6	S 36	29.6
Menkar	314	06.1	N 04	11.4	Arcturus	145	46.9	N 19	03.8
Mirfak	308	28.3	N 49	57.0	Rigel Kentaurus	139	36.3	S 60	56.8
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.9	N 46	01.6	Kocab	137	18.7	N 74	03.1
Rigel	281	03.9	S 08	10.3	Alphecca	126	03.2	N 26	37.8
Bellatrix	278	22.9	N 06	22.4	Antares	112	15.2	S 26	29.4
Elnath	278	01.9	N 28	37.8	Atria	107	08.5	S 69	04.4
Alnilam	275	37.7	S 01	11.2	Sabik	102	02.1	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.5	S 37	07.3
Canopus	263	52.8	S 52	42.6	Rasalhague	95	57.9	N 12	32.5
Sirius	258	26.1	S 16	44.6	Etamin	90	41.5	N 51	29.0
Adhara	255	05.9	S 29	00.5	Kaus Australis	83	31.7	S 34	22.3
Castor	245	56.9	N 31	50.1	Vega	80	32.7	N 38	48.1
Procyon	244	50.5	N 05	10.0	Nunki	75	47.0	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.5	N 28	00.6
Avior	234	15.0	S 59	35.7	Altair	61	59.6	N 08	55.9
Suhail	222	46.3	S 43	32.3	Peacock	53	04.8	S 56	38.9
Miaplacidus	221	38.5	S 69	49.6	Deneb	49	25.3	N 45	22.0
Alphard	217	47.6	S 08	46.2	Enif	33	38.4	N 09	59.4
Regulus	207	34.1	N 11	50.6	Alnair	27	32.4	S 46	50.0
Dubhe	193	40.5	N 61	37.1	Formalhaut	15	14.3	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.6	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 161 of 365		day 162 of 365		day 163 of 365		day 164 of 365		day 165 of 365		UT					
	<i>June 10</i>		<i>June 11</i>		<i>June 12</i>		<i>June 13</i>		<i>June 14</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	258	36.2	+02.5	259	35.4	+02.4	260	34.5	+02.5	261	33.6	+02.5	262	32.8	+02.4	00
01	273	38.7	+02.4	274	37.8	+02.5	275	37.0	+02.4	276	36.1	+02.5	277	35.2	+02.5	01
02	288	41.1	+02.5	289	40.3	+02.4	290	39.4	+02.5	291	38.6	+02.4	292	37.7	+02.5	02
03	303	43.6	+02.5	304	42.7	+02.5	305	41.9	+02.4	306	41.0	+02.5	307	40.2	+02.4	03
04	318	46.1	+02.4	319	45.2	+02.5	320	44.3	+02.5	321	43.5	+02.5	322	42.6	+02.5	04
05	333	48.5	+02.5	334	47.7	+02.4	335	46.8	+02.5	336	46.0	+02.4	337	45.1	+02.5	05
06	348	51.0	+02.5	349	50.1	+02.5	350	49.3	+02.4	351	48.4	+02.5	352	47.6	+02.4	06
07	3	53.5	+02.4	4	52.6	+02.5	5	51.7	+02.5	6	50.9	+02.4	7	50.0	+02.5	07
08	18	55.9	+02.5	19	55.1	+02.4	20	54.2	+02.5	21	53.3	+02.5	22	52.5	+02.5	08
09	33	58.4	+02.5	34	57.5	+02.5	35	56.7	+02.4	36	55.8	+02.5	37	55.0	+02.4	09
10	49	00.9	+02.4	49	60.0	+02.5	50	59.1	+02.5	51	58.3	+02.4	52	57.4	+02.5	10
11	64	03.3	+02.5	65	02.5	+02.4	66	01.6	+02.5	67	00.7	+02.5	67	59.9	+02.4	11
12	79	05.8	+02.4	80	04.9	+02.5	81	04.1	+02.4	82	03.2	+02.5	83	02.3	+02.5	12
13	94	08.2	+02.5	95	07.4	+02.5	96	06.5	+02.5	97	05.7	+02.4	98	04.8	+02.5	13
14	109	10.7	+02.5	110	09.9	+02.4	111	09.0	+02.5	112	08.1	+02.5	113	07.3	+02.4	14
15	124	13.2	+02.4	125	12.3	+02.5	126	11.5	+02.4	127	10.6	+02.5	128	09.7	+02.5	15
16	139	15.6	+02.5	140	14.8	+02.4	141	13.9	+02.5	142	13.1	+02.4	143	12.2	+02.5	16
17	154	18.1	+02.5	155	17.2	+02.5	156	16.4	+02.4	157	15.5	+02.5	158	14.7	+02.4	17
18	169	20.6	+02.4	170	19.7	+02.5	171	18.8	+02.5	172	18.0	+02.5	173	17.1	+02.5	18
19	184	23.0	+02.5	185	22.2	+02.4	186	21.3	+02.5	187	20.5	+02.4	188	19.6	+02.5	19
20	199	25.5	+02.5	200	24.6	+02.5	201	23.8	+02.4	202	22.9	+02.5	203	22.1	+02.4	20
21	214	28.0	+02.4	215	27.1	+02.5	216	26.2	+02.5	217	25.4	+02.4	218	24.5	+02.5	21
22	229	30.4	+02.5	230	29.6	+02.4	231	28.7	+02.5	232	27.8	+02.5	233	27.0	+02.5	22
23	244	32.9	+02.5	245	32.0	+02.5	246	31.2	+02.4	247	30.3	+02.5	248	29.5	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.6	N 29	13.7	Gienah	175	43.1	S 17	41.1
Ankaa	353	07.1	S 42	09.7	Acrux	172	59.5	S 63	14.7
Schedir	349	30.9	N 56	40.4	Gacrux	171	51.1	S 57	15.5
Diphda	348	47.2	S 17	50.7	Alioth	166	12.5	N 55	49.5
Achernar	335	20.3	S 57	06.2	Spica	158	21.8	S 11	17.7
Hamal	327	51.1	N 23	34.9	Alkaid	152	51.4	N 49	11.3
Polaris	314	18.6	N 89	22.1	Hadar	148	35.1	S 60	30.0
Acamar	315	11.8	S 40	12.0	Menkent	147	56.6	S 36	29.6
Menkar	314	06.1	N 04	11.4	Arcturus	145	46.9	N 19	03.9
Mirfak	308	28.2	N 49	57.0	Rigel Kentaurus	139	36.4	S 60	56.8
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.9	N 46	01.6	Kocab	137	18.8	N 74	03.2
Rigel	281	03.9	S 08	10.3	Alphecca	126	03.2	N 26	37.8
Bellatrix	278	22.8	N 06	22.4	Antares	112	15.2	S 26	29.4
Elnath	278	01.8	N 28	37.8	Atria	107	08.4	S 69	04.4
Alnilam	275	37.7	S 01	11.1	Sabik	102	02.1	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.5	S 37	07.3
Canopus	263	52.8	S 52	42.6	Rasalhague	95	57.9	N 12	32.5
Sirius	258	26.1	S 16	44.6	Etamin	90	41.5	N 51	29.0
Adhara	255	05.9	S 29	00.4	Kaus Australis	83	31.7	S 34	22.3
Castor	245	56.9	N 31	50.1	Vega	80	32.7	N 38	48.2
Procyon	244	50.5	N 05	10.0	Nunki	75	47.0	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.5	N 28	00.6
Avior	234	15.1	S 59	35.7	Altair	61	59.6	N 08	55.9
Suhail	222	46.3	S 43	32.3	Peacock	53	04.8	S 56	38.9
Miaplacidus	221	38.6	S 69	49.6	Deneb	49	25.3	N 45	22.0
Alphard	217	47.6	S 08	46.2	Enif	33	38.3	N 09	59.4
Regulus	207	34.1	N 11	50.6	Alnair	27	32.4	S 46	50.0
Dubhe	193	40.5	N 61	37.1	Formalhaut	15	14.2	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.6	N 15	20.4

2025 - First Point of Aries / Selected Stars

UT	day 166 of 365			day 167 of 365			day 168 of 365			day 169 of 365			day 170 of 365			UT		
	June 15			June 16			June 17			June 18			June 19					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	263	31.9	+02.5	264	31.1	+02.4	265	30.2	+02.5	266	29.3	+02.5	267	28.5	+02.4	00		
01	278	34.4	+02.4	279	33.5	+02.5	280	32.7	+02.4	281	31.8	+02.5	282	30.9	+02.5	01		
02	293	36.8	+02.5	294	36.0	+02.4	295	35.1	+02.5	296	34.3	+02.4	297	33.4	+02.5	02		
03	308	39.3	+02.5	309	38.4	+02.5	310	37.6	+02.5	311	36.7	+02.5	312	35.9	+02.4	03		
04	323	41.8	+02.4	324	40.9	+02.5	325	40.1	+02.4	326	39.2	+02.5	327	38.3	+02.5	04		
05	338	44.2	+02.5	339	43.4	+02.4	340	42.5	+02.5	341	41.7	+02.4	342	40.8	+02.5	05		
06	353	46.7	+02.5	354	45.8	+02.5	355	45.0	+02.4	356	44.1	+02.5	357	43.3	+02.4	06		
07	8	49.2	+02.4	9	48.3	+02.5	10	47.4	+02.5	11	46.6	+02.4	12	45.7	+02.5	07		
08	23	51.6	+02.5	24	50.8	+02.4	25	49.9	+02.5	26	49.0	+02.5	27	48.2	+02.4	08		
09	38	54.1	+02.5	39	53.2	+02.5	40	52.4	+02.4	41	51.5	+02.5	42	50.6	+02.5	09		
10	53	56.6	+02.4	54	55.7	+02.5	55	54.8	+02.5	56	54.0	+02.4	57	53.1	+02.5	10		
11	68	59.0	+02.5	69	58.2	+02.4	70	57.3	+02.5	71	56.4	+02.5	72	55.6	+02.4	11		
12	84	01.5	+02.4	85	00.6	+02.5	85	59.8	+02.4	86	58.9	+02.5	87	58.0	+02.5	12		
13	99	03.9	+02.5	100	03.1	+02.5	101	02.2	+02.5	102	01.4	+02.4	103	00.5	+02.5	13		
14	114	06.4	+02.5	115	05.6	+02.4	116	04.7	+02.5	117	03.8	+02.5	118	03.0	+02.4	14		
15	129	08.9	+02.4	130	08.0	+02.5	131	07.2	+02.4	132	06.3	+02.5	133	05.4	+02.5	15		
16	144	11.3	+02.5	145	10.5	+02.4	146	09.6	+02.5	147	08.8	+02.4	148	07.9	+02.5	16		
17	159	13.8	+02.5	160	12.9	+02.5	161	12.1	+02.4	162	11.2	+02.5	163	10.4	+02.4	17		
18	174	16.3	+02.4	175	15.4	+02.5	176	14.5	+02.5	177	13.7	+02.4	178	12.8	+02.5	18		
19	189	18.7	+02.5	190	17.9	+02.4	191	17.0	+02.5	192	16.1	+02.5	193	15.3	+02.5	19		
20	204	21.2	+02.5	205	20.3	+02.5	206	19.5	+02.4	207	18.6	+02.5	208	17.8	+02.4	20		
21	219	23.7	+02.4	220	22.8	+02.5	221	21.9	+02.5	222	21.1	+02.4	223	20.2	+02.5	21		
22	234	26.1	+02.5	235	25.3	+02.4	236	24.4	+02.5	237	23.5	+02.5	238	22.7	+02.4	22		
23	249	28.6	+02.5	250	27.7	+02.5	251	26.9	+02.4	252	26.0	+02.5	253	25.1	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.5	N 29	13.8	Gienah	175	43.1	S 17	41.1
Ankaa	353	07.0	S 42	09.7	Acrux	172	59.5	S 63	14.7
Schedir	349	30.9	N 56	40.4	Gacrux	171	51.2	S 57	15.5
Diphda	348	47.1	S 17	50.7	Alioth	166	12.6	N 55	49.5
Achernar	335	20.3	S 57	06.2	Spica	158	21.8	S 11	17.7
Hamal	327	51.1	N 23	34.9	Alkaid	152	51.4	N 49	11.4
Polaris	314	16.6	N 89	22.1	Hadar	148	35.1	S 60	30.0
Acamar	315	11.8	S 40	12.0	Menkent	147	56.6	S 36	29.6
Menkar	314	06.0	N 04	11.4	Arcturus	145	46.9	N 19	03.9
Mirfak	308	28.2	N 49	57.0	Rigel Kentaurus	139	36.4	S 60	56.9
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.9	N 46	01.6	Kocab	137	18.8	N 74	03.2
Rigel	281	03.9	S 08	10.3	Alphecca	126	03.2	N 26	37.8
Bellatrix	278	22.8	N 06	22.4	Antares	112	15.2	S 26	29.4
Elnath	278	01.8	N 28	37.8	Atria	107	08.4	S 69	04.4
Alnilam	275	37.7	S 01	11.1	Sabik	102	02.0	S 15	45.5
Betelgeuze	270	52.1	N 07	24.7	Shaula	96	09.5	S 37	07.3
Canopus	263	52.8	S 52	42.6	Rasalhague	95	57.9	N 12	32.5
Sirius	258	26.1	S 16	44.6	Etamin	90	41.5	N 51	29.0
Adhara	255	05.9	S 29	00.4	Kaus Australis	83	31.6	S 34	22.3
Castor	245	56.9	N 31	50.1	Vega	80	32.7	N 38	48.2
Procyon	244	50.5	N 05	10.0	Nunki	75	47.0	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.4	N 28	00.7
Avior	234	15.1	S 59	35.6	Altair	61	59.5	N 08	55.9
Suhail	222	46.3	S 43	32.3	Peacock	53	04.7	S 56	39.0
Miaplacidus	221	38.6	S 69	49.6	Deneb	49	25.2	N 45	22.1
Alphard	217	47.6	S 08	46.2	Enif	33	38.3	N 09	59.4
Regulus	207	34.1	N 11	50.6	Alnair	27	32.3	S 46	50.0
Dubhe	193	40.5	N 61	37.1	Formalhaut	15	14.2	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.5	N 15	20.5

2025 - First Point of Aries / Selected Stars

UT	day 171 of 365		day 172 of 365		day 173 of 365		day 174 of 365		day 175 of 365		UT					
	<i>June 20</i>		<i>June 21</i>		<i>June 22</i>		<i>June 23</i>		<i>June 24</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	268	27.6	+02.5	269	26.7	+02.5	270	25.9	+02.4	271	25.0	+02.5	272	24.2	+02.4	00
01	283	30.1	+02.4	284	29.2	+02.5	285	28.3	+02.5	286	27.5	+02.5	287	26.6	+02.5	01
02	298	32.5	+02.5	299	31.7	+02.4	300	30.8	+02.5	301	30.0	+02.4	302	29.1	+02.5	02
03	313	35.0	+02.5	314	34.1	+02.5	315	33.3	+02.4	316	32.4	+02.5	317	31.6	+02.4	03
04	328	37.5	+02.4	329	36.6	+02.5	330	35.7	+02.5	331	34.9	+02.4	332	34.0	+02.5	04
05	343	39.9	+02.5	344	39.1	+02.4	345	38.2	+02.5	346	37.3	+02.5	347	36.5	+02.5	05
06	358	42.4	+02.5	359	41.5	+02.5	0	40.7	+02.4	1	39.8	+02.5	2	39.0	+02.4	06
07	13	44.9	+02.4	14	44.0	+02.5	15	43.1	+02.5	16	42.3	+02.4	17	41.4	+02.5	07
08	28	47.3	+02.5	29	46.5	+02.4	30	45.6	+02.5	31	44.7	+02.5	32	43.9	+02.4	08
09	43	49.8	+02.4	44	48.9	+02.5	45	48.1	+02.4	46	47.2	+02.5	47	46.3	+02.5	09
10	58	52.2	+02.5	59	51.4	+02.5	60	50.5	+02.5	61	49.7	+02.4	62	48.8	+02.5	10
11	73	54.7	+02.5	74	53.9	+02.4	75	53.0	+02.5	76	52.1	+02.5	77	51.3	+02.4	11
12	88	57.2	+02.4	89	56.3	+02.5	90	55.5	+02.4	91	54.6	+02.5	92	53.7	+02.5	12
13	103	59.6	+02.5	104	58.8	+02.4	105	57.9	+02.5	106	57.1	+02.4	107	56.2	+02.5	13
14	119	02.1	+02.5	120	01.2	+02.5	121	00.4	+02.4	121	59.5	+02.5	122	58.7	+02.4	14
15	134	04.6	+02.4	135	03.7	+02.5	136	02.8	+02.5	137	02.0	+02.5	138	01.1	+02.5	15
16	149	07.0	+02.5	150	06.2	+02.4	151	05.3	+02.5	152	04.5	+02.4	153	03.6	+02.5	16
17	164	09.5	+02.5	165	08.6	+02.5	166	07.8	+02.4	167	06.9	+02.5	168	06.1	+02.4	17
18	179	12.0	+02.4	180	11.1	+02.5	181	10.2	+02.5	182	09.4	+02.4	183	08.5	+02.5	18
19	194	14.4	+02.5	195	13.6	+02.4	196	12.7	+02.5	197	11.8	+02.5	198	11.0	+02.5	19
20	209	16.9	+02.5	210	16.0	+02.5	211	15.2	+02.4	212	14.3	+02.5	213	13.5	+02.4	20
21	224	19.4	+02.4	225	18.5	+02.5	226	17.6	+02.5	227	16.8	+02.4	228	15.9	+02.5	21
22	239	21.8	+02.5	240	21.0	+02.4	241	20.1	+02.5	242	19.2	+02.5	243	18.4	+02.4	22
23	254	24.3	+02.4	255	23.4	+02.5	256	22.6	+02.4	257	21.7	+02.5	258	20.8	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	34.5	N 29	13.8	Gienah	175	43.1	S 17	41.1
Ankaa	353	07.0	S 42	09.7	Acrux	172	59.6	S 63	14.7
Schedir	349	30.8	N 56	40.4	Gacrux	171	51.2	S 57	15.5
Diphda	348	47.1	S 17	50.7	Alioth	166	12.6	N 55	49.5
Achernar	335	20.2	S 57	06.1	Spica	158	21.8	S 11	17.7
Hamal	327	51.1	N 23	34.9	Alkaid	152	51.4	N 49	11.4
Polaris	314	14.9	N 89	22.1	Hadar	148	35.1	S 60	30.0
Acamar	315	11.8	S 40	12.0	Menkent	147	56.6	S 36	29.6
Menkar	314	06.0	N 04	11.4	Arcturus	145	46.9	N 19	03.9
Mirfak	308	28.2	N 49	56.9	Rigel Kentaurus	139	36.4	S 60	56.9
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.9	N 46	01.5	Kocab	137	18.9	N 74	03.2
Rigel	281	03.9	S 08	10.3	Alphecca	126	03.2	N 26	37.8
Bellatrix	278	22.8	N 06	22.4	Antares	112	15.1	S 26	29.4
Elnath	278	01.8	N 28	37.8	Atria	107	08.4	S 69	04.5
Alnilam	275	37.7	S 01	11.1	Sabik	102	02.0	S 15	45.5
Betelgeuze	270	52.0	N 07	24.7	Shaula	96	09.4	S 37	07.3
Canopus	263	52.8	S 52	42.5	Rasalhague	95	57.9	N 12	32.6
Sirius	258	26.1	S 16	44.5	Etamin	90	41.5	N 51	29.1
Adhara	255	05.9	S 29	00.4	Kaus Australis	83	31.6	S 34	22.3
Castor	245	56.9	N 31	50.1	Vega	80	32.6	N 38	48.2
Procyon	244	50.5	N 05	10.0	Nunki	75	46.9	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.4	N 28	00.7
Avior	234	15.1	S 59	35.6	Altair	61	59.5	N 08	55.9
Suhail	222	46.3	S 43	32.3	Peacock	53	04.7	S 56	39.0
Miaplacidus	221	38.7	S 69	49.5	Deneb	49	25.2	N 45	22.1
Alphard	217	47.6	S 08	46.2	Enif	33	38.3	N 09	59.4
Regulus	207	34.1	N 11	50.6	Alnair	27	32.3	S 46	50.0
Dubhe	193	40.6	N 61	37.1	Formalhaut	15	14.2	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.5	N 15	20.5

2025 - First Point of Aries / Selected Stars

UT	day 176 of 365			day 177 of 365			day 178 of 365			day 179 of 365			day 180 of 365			UT		
	<i>June 25</i>			<i>June 26</i>			<i>June 27</i>			<i>June 28</i>			<i>June 29</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	273	23.3	+02.5	274	22.5	+02.4	275	21.6	+02.5	276	20.7	+02.5	277	19.9	+02.4	00		
01	288	25.8	+02.4	289	24.9	+02.5	290	24.1	+02.4	291	23.2	+02.5	292	22.3	+02.5	01		
02	303	28.2	+02.5	304	27.4	+02.4	305	26.5	+02.5	306	25.7	+02.4	307	24.8	+02.5	02		
03	318	30.7	+02.5	319	29.8	+02.5	320	29.0	+02.4	321	28.1	+02.5	322	27.3	+02.4	03		
04	333	33.2	+02.4	334	32.3	+02.5	335	31.4	+02.5	336	30.6	+02.5	337	29.7	+02.5	04		
05	348	35.6	+02.5	349	34.8	+02.4	350	33.9	+02.5	351	33.1	+02.4	352	32.2	+02.5	05		
06	3	38.1	+02.5	4	37.2	+02.5	5	36.4	+02.4	6	35.5	+02.5	7	34.7	+02.4	06		
07	18	40.6	+02.4	19	39.7	+02.5	20	38.8	+02.5	21	38.0	+02.4	22	37.1	+02.5	07		
08	33	43.0	+02.5	34	42.2	+02.4	35	41.3	+02.5	36	40.4	+02.5	37	39.6	+02.5	08		
09	48	45.5	+02.5	49	44.6	+02.5	50	43.8	+02.4	51	42.9	+02.5	52	42.1	+02.4	09		
10	63	48.0	+02.4	64	47.1	+02.5	65	46.2	+02.5	66	45.4	+02.4	67	44.5	+02.5	10		
11	78	50.4	+02.5	79	49.6	+02.4	80	48.7	+02.5	81	47.8	+02.5	82	47.0	+02.4	11		
12	93	52.9	+02.4	94	52.0	+02.5	95	51.2	+02.4	96	50.3	+02.5	97	49.4	+02.5	12		
13	108	55.3	+02.5	109	54.5	+02.5	110	53.6	+02.5	111	52.8	+02.4	112	51.9	+02.5	13		
14	123	57.8	+02.5	124	57.0	+02.4	125	56.1	+02.5	126	55.2	+02.5	127	54.4	+02.4	14		
15	139	00.3	+02.4	139	59.4	+02.5	140	58.6	+02.4	141	57.7	+02.5	142	56.8	+02.5	15		
16	154	02.7	+02.5	155	01.9	+02.4	156	01.0	+02.5	157	00.2	+02.4	157	59.3	+02.5	16		
17	169	05.2	+02.5	170	04.3	+02.5	171	03.5	+02.4	172	02.6	+02.5	173	01.8	+02.4	17		
18	184	07.7	+02.4	185	06.8	+02.5	186	05.9	+02.5	187	05.1	+02.5	188	04.2	+02.5	18		
19	199	10.1	+02.5	200	09.3	+02.4	201	08.4	+02.5	202	07.6	+02.4	203	06.7	+02.5	19		
20	214	12.6	+02.5	215	11.7	+02.5	216	10.9	+02.4	217	10.0	+02.5	218	09.2	+02.4	20		
21	229	15.1	+02.4	230	14.2	+02.5	231	13.3	+02.5	232	12.5	+02.4	233	11.6	+02.5	21		
22	244	17.5	+02.5	245	16.7	+02.4	246	15.8	+02.5	247	14.9	+02.5	248	14.1	+02.4	22		
23	259	20.0	+02.5	260	19.1	+02.5	261	18.3	+02.4	262	17.4	+02.5	263	16.5	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.4	N 29	13.8	Gienah	175	43.1	S 17	41.1
Ankaa	353	06.9	S 42	09.6	Acrux	172	59.6	S 63	14.7
Schedir	349	30.7	N 56	40.4	Gacrux	171	51.2	S 57	15.5
Diphda	348	47.0	S 17	50.7	Alioth	166	12.6	N 55	49.5
Achernar	335	20.2	S 57	06.1	Spica	158	21.8	S 11	17.7
Hamal	327	51.0	N 23	34.9	Alkaid	152	51.4	N 49	11.4
Polaris	314	12.5	N 89	22.0	Hadar	148	35.1	S 60	30.0
Acamar	315	11.7	S 40	12.0	Menkent	147	56.6	S 36	29.6
Menkar	314	06.0	N 04	11.4	Arcturus	145	47.0	N 19	03.9
Mirfak	308	28.1	N 49	56.9	Rigel Kentaurus	139	36.4	S 60	56.9
Aldebaran	290	39.5	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.8	N 46	01.5	Kocab	137	19.0	N 74	03.2
Rigel	281	03.8	S 08	10.3	Alphecca	126	03.2	N 26	37.8
Bellatrix	278	22.8	N 06	22.4	Antares	112	15.1	S 26	29.4
Elnath	278	01.8	N 28	37.8	Atria	107	08.4	S 69	04.5
Alnilam	275	37.7	S 01	11.1	Sabik	102	02.0	S 15	45.5
Betelgeuze	270	52.0	N 07	24.7	Shaula	96	09.4	S 37	07.3
Canopus	263	52.8	S 52	42.5	Rasalhague	95	57.9	N 12	32.6
Sirius	258	26.0	S 16	44.5	Etamin	90	41.5	N 51	29.1
Adhara	255	05.9	S 29	00.4	Kaus Australis	83	31.6	S 34	22.3
Castor	245	56.9	N 31	50.0	Vega	80	32.6	N 38	48.3
Procyon	244	50.5	N 05	10.0	Nunki	75	46.9	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.4	N 28	00.7
Avior	234	15.2	S 59	35.6	Altair	61	59.5	N 08	55.9
Suhail	222	46.4	S 43	32.3	Peacock	53	04.6	S 56	39.0
Miaplacidus	221	38.7	S 69	49.5	Deneb	49	25.2	N 45	22.1
Alphard	217	47.6	S 08	46.2	Enif	33	38.2	N 09	59.5
Regulus	207	34.1	N 11	50.6	Alnair	27	32.2	S 46	50.0
Dubhe	193	40.6	N 61	37.1	Formalhaut	15	14.1	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.4	N 15	20.5

2025 - First Point of Aries / Selected Stars

UT	day 181 of 365		day 182 of 365		day 183 of 365		day 184 of 365		day 185 of 365		UT					
	June 30		July 1		July 2		July 3		July 4							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	278	19.0	+02.5	279	18.1	+02.5	280	17.3	+02.5	281	16.4	+02.5	282	15.6	+02.4	00
01	293	21.5	+02.4	294	20.6	+02.5	295	19.8	+02.4	296	18.9	+02.5	297	18.0	+02.5	01
02	308	23.9	+02.5	309	23.1	+02.4	310	22.2	+02.5	311	21.4	+02.4	312	20.5	+02.5	02
03	323	26.4	+02.5	324	25.5	+02.5	325	24.7	+02.4	326	23.8	+02.5	327	23.0	+02.4	03
04	338	28.9	+02.4	339	28.0	+02.5	340	27.1	+02.5	341	26.3	+02.4	342	25.4	+02.5	04
05	353	31.3	+02.5	354	30.5	+02.4	355	29.6	+02.5	356	28.7	+02.5	357	27.9	+02.4	05
06	8	33.8	+02.5	9	32.9	+02.5	10	32.1	+02.4	11	31.2	+02.5	12	30.3	+02.5	06
07	23	36.3	+02.4	24	35.4	+02.5	25	34.5	+02.5	26	33.7	+02.4	27	32.8	+02.5	07
08	38	38.7	+02.5	39	37.9	+02.4	40	37.0	+02.5	41	36.1	+02.5	42	35.3	+02.4	08
09	53	41.2	+02.5	54	40.3	+02.5	55	39.5	+02.4	56	38.6	+02.5	57	37.7	+02.5	09
10	68	43.7	+02.4	69	42.8	+02.5	70	41.9	+02.5	71	41.1	+02.4	72	40.2	+02.5	10
11	83	46.1	+02.5	84	45.3	+02.4	85	44.4	+02.5	86	43.5	+02.5	87	42.7	+02.4	11
12	98	48.6	+02.4	99	47.7	+02.5	100	46.9	+02.4	101	46.0	+02.5	102	45.1	+02.5	12
13	113	51.0	+02.5	114	50.2	+02.4	115	49.3	+02.5	116	48.5	+02.4	117	47.6	+02.5	13
14	128	53.5	+02.5	129	52.6	+02.5	130	51.8	+02.4	131	50.9	+02.5	132	50.1	+02.4	14
15	143	56.0	+02.4	144	55.1	+02.5	145	54.2	+02.5	146	53.4	+02.5	147	52.5	+02.5	15
16	158	58.4	+02.5	159	57.6	+02.4	160	56.7	+02.5	161	55.9	+02.4	162	55.0	+02.5	16
17	174	00.9	+02.5	175	00.0	+02.5	175	59.2	+02.4	176	58.3	+02.5	177	57.5	+02.4	17
18	189	03.4	+02.4	190	02.5	+02.5	191	01.6	+02.5	192	00.8	+02.4	192	59.9	+02.5	18
19	204	05.8	+02.5	205	05.0	+02.4	206	04.1	+02.5	207	03.2	+02.5	208	02.4	+02.4	19
20	219	08.3	+02.5	220	07.4	+02.5	221	06.6	+02.4	222	05.7	+02.5	223	04.8	+02.5	20
21	234	10.8	+02.4	235	09.9	+02.5	236	09.0	+02.5	237	08.2	+02.4	238	07.3	+02.5	21
22	249	13.2	+02.5	250	12.4	+02.4	251	11.5	+02.5	252	10.6	+02.5	253	09.8	+02.4	22
23	264	15.7	+02.4	265	14.8	+02.5	266	14.0	+02.4	267	13.1	+02.5	268	12.2	+02.5	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.4	N 29 13.8	Gienah	175 43.1	S 17 41.1
Ankaa	353 06.8	S 42 09.6	Acrux	172 59.7	S 63 14.7
Schedir	349 30.7	N 56 40.4	Gacrux	171 51.3	S 57 15.5
Diphda	348 47.0	S 17 50.7	Alioth	166 12.7	N 55 49.5
Achernar	335 20.1	S 57 06.1	Spica	158 21.8	S 11 17.7
Hamal	327 51.0	N 23 35.0	Alkaid	152 51.4	N 49 11.4
Polaris	314 10.3	N 89 22.0	Hadar	148 35.2	S 60 30.0
Acamar	315 11.7	S 40 11.9	Menkent	147 56.7	S 36 29.6
Menkar	314 05.9	N 04 11.4	Arcturus	145 47.0	N 19 03.9
Mirfak	308 28.1	N 49 56.9	Rigel Kentaurus	139 36.4	S 60 56.9
Aldebaran	290 39.5	N 16 33.7	Zubenelgenubi	136 55.3	S 16 08.9
Capella	280 21.8	N 46 01.5	Kocab	137 19.0	N 74 03.2
Rigel	281 03.8	S 08 10.3	Alphecca	126 03.2	N 26 37.8
Bellatrix	278 22.8	N 06 22.4	Antares	112 15.1	S 26 29.4
Elnath	278 01.7	N 28 37.8	Atria	107 08.4	S 69 04.5
Alnilam	275 37.7	S 01 11.1	Sabik	102 02.0	S 15 45.5
Betelgeuze	270 52.0	N 07 24.7	Shaula	96 09.4	S 37 07.4
Canopus	263 52.8	S 52 42.5	Rasalhague	95 57.9	N 12 32.6
Sirius	258 26.0	S 16 44.5	Etamin	90 41.5	N 51 29.1
Adhara	255 05.9	S 29 00.4	Kaus Australis	83 31.6	S 34 22.3
Castor	245 56.9	N 31 50.0	Vega	80 32.6	N 38 48.3
Procyon	244 50.5	N 05 10.0	Nunki	75 46.9	S 26 15.8
Pollux	243 16.8	N 27 58.0	Albireo	67 03.4	N 28 00.7
Avior	234 15.2	S 59 35.6	Altair	61 59.4	N 08 56.0
Suhail	222 46.4	S 43 32.2	Peacock	53 04.6	S 56 39.0
Miaplacidus	221 38.8	S 69 49.5	Deneb	49 25.1	N 45 22.1
Alphard	217 47.6	S 08 46.2	Enif	33 38.2	N 09 59.5
Regulus	207 34.1	N 11 50.6	Alnair	27 32.2	S 46 50.0
Dubhe	193 40.6	N 61 37.1	Formalhaut	15 14.1	S 29 29.0
Denebola	182 24.4	N 14 25.9	Markab	13 29.4	N 15 20.5

2025 - First Point of Aries / Selected Stars

UT	day 186 of 365			day 187 of 365			day 188 of 365			day 189 of 365			day 190 of 365			UT		
	July 5			July 6			July 7			July 8			July 9					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	283	14.7	+02.5	284	13.8	+02.5	285	13.0	+02.4	286	12.1	+02.5	287	11.3	+02.4	00		
01	298	17.2	+02.4	299	16.3	+02.5	300	15.4	+02.5	301	14.6	+02.5	302	13.7	+02.5	01		
02	313	19.6	+02.5	314	18.8	+02.4	315	17.9	+02.5	316	17.1	+02.4	317	16.2	+02.5	02		
03	328	22.1	+02.5	329	21.2	+02.5	330	20.4	+02.4	331	19.5	+02.5	332	18.7	+02.4	03		
04	343	24.6	+02.4	344	23.7	+02.5	345	22.8	+02.5	346	22.0	+02.4	347	21.1	+02.5	04		
05	358	27.0	+02.5	359	26.2	+02.4	0	25.3	+02.5	1	24.4	+02.5	2	23.6	+02.4	05		
06	13	29.5	+02.5	14	28.6	+02.5	15	27.8	+02.4	16	26.9	+02.5	17	26.0	+02.5	06		
07	28	32.0	+02.4	29	31.1	+02.5	30	30.2	+02.5	31	29.4	+02.4	32	28.5	+02.5	07		
08	43	34.4	+02.5	44	33.6	+02.4	45	32.7	+02.5	46	31.8	+02.5	47	31.0	+02.4	08		
09	58	36.9	+02.4	59	36.0	+02.5	60	35.2	+02.4	61	34.3	+02.5	62	33.4	+02.5	09		
10	73	39.3	+02.5	74	38.5	+02.4	75	37.6	+02.5	76	36.8	+02.4	77	35.9	+02.5	10		
11	88	41.8	+02.5	89	40.9	+02.5	90	40.1	+02.5	91	39.2	+02.5	92	38.4	+02.4	11		
12	103	44.3	+02.4	104	43.4	+02.5	105	42.6	+02.4	106	41.7	+02.5	107	40.8	+02.5	12		
13	118	46.7	+02.5	119	45.9	+02.4	120	45.0	+02.5	121	44.2	+02.4	122	43.3	+02.5	13		
14	133	49.2	+02.5	134	48.3	+02.5	135	47.5	+02.4	136	46.6	+02.5	137	45.8	+02.4	14		
15	148	51.7	+02.4	149	50.8	+02.5	150	49.9	+02.5	151	49.1	+02.4	152	48.2	+02.5	15		
16	163	54.1	+02.5	164	53.3	+02.4	165	52.4	+02.5	166	51.5	+02.5	167	50.7	+02.5	16		
17	178	56.6	+02.5	179	55.7	+02.5	180	54.9	+02.4	181	54.0	+02.5	182	53.2	+02.4	17		
18	193	59.1	+02.4	194	58.2	+02.5	195	57.3	+02.5	196	56.5	+02.4	197	55.6	+02.5	18		
19	209	01.5	+02.5	210	00.7	+02.4	210	59.8	+02.5	211	58.9	+02.5	212	58.1	+02.4	19		
20	224	04.0	+02.4	225	03.1	+02.5	226	02.3	+02.4	227	01.4	+02.5	228	00.5	+02.5	20		
21	239	06.4	+02.5	240	05.6	+02.5	241	04.7	+02.5	242	03.9	+02.4	243	03.0	+02.5	21		
22	254	08.9	+02.5	255	08.1	+02.4	256	07.2	+02.5	257	06.3	+02.5	258	05.5	+02.4	22		
23	269	11.4	+02.4	270	10.5	+02.5	271	09.7	+02.4	272	08.8	+02.5	273	07.9	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.4	N 29	13.8	Gienah	175	43.2	S 17	41.1
Ankaa	353	06.8	S 42	09.6	Acrux	172	59.7	S 63	14.7
Schedir	349	30.6	N 56	40.4	Gacrux	171	51.3	S 57	15.5
Diphda	348	47.0	S 17	50.7	Alioth	166	12.7	N 55	49.6
Achernar	335	20.1	S 57	06.1	Spica	158	21.8	S 11	17.7
Hamal	327	50.9	N 23	35.0	Alkaid	152	51.5	N 49	11.4
Polaris	314	08.1	N 89	22.0	Hadar	148	35.2	S 60	30.0
Acamar	315	11.7	S 40	11.9	Menkent	147	56.7	S 36	29.6
Menkar	314	05.9	N 04	11.5	Arcturus	145	47.0	N 19	03.9
Mirfak	308	28.0	N 49	56.9	Rigel Kentaurus	139	36.5	S 60	56.9
Aldebaran	290	39.5	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.8	N 46	01.5	Kocab	137	19.1	N 74	03.2
Rigel	281	03.8	S 08	10.2	Alphecca	126	03.2	N 26	37.9
Bellatrix	278	22.7	N 06	22.4	Antares	112	15.1	S 26	29.4
Elnath	278	01.7	N 28	37.8	Atria	107	08.4	S 69	04.5
Alnilam	275	37.6	S 01	11.1	Sabik	102	02.0	S 15	45.4
Betelgeuze	270	52.0	N 07	24.7	Shaula	96	09.4	S 37	07.4
Canopus	263	52.8	S 52	42.5	Rasalhague	95	57.9	N 12	32.6
Sirius	258	26.0	S 16	44.5	Etamin	90	41.5	N 51	29.2
Adhara	255	05.9	S 29	00.3	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.9	N 31	50.0	Vega	80	32.6	N 38	48.3
Procyon	244	50.5	N 05	10.0	Nunki	75	46.9	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.4	N 28	00.8
Avior	234	15.2	S 59	35.5	Altair	61	59.4	N 08	56.0
Suhail	222	46.4	S 43	32.2	Peacock	53	04.5	S 56	39.0
Miaplacidus	221	38.8	S 69	49.5	Deneb	49	25.1	N 45	22.2
Alphard	217	47.6	S 08	46.2	Enif	33	38.2	N 09	59.5
Regulus	207	34.1	N 11	50.6	Alnair	27	32.1	S 46	50.0
Dubhe	193	40.7	N 61	37.1	Formalhaut	15	14.0	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.4	N 15	20.5

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UT	day 191 of 365		day 192 of 365		day 193 of 365		day 194 of 365		day 195 of 365		UT					
	<i>July 10</i>		<i>July 11</i>		<i>July 12</i>		<i>July 13</i>		<i>July 14</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	288	10.4	+02.5	289	09.5	+02.5	290	08.7	+02.4	291	07.8	+02.5	292	07.0	+02.4	00
01	303	12.9	+02.4	304	12.0	+02.5	305	11.1	+02.5	306	10.3	+02.5	307	09.4	+02.5	01
02	318	15.3	+02.5	319	14.5	+02.4	320	13.6	+02.5	321	12.8	+02.4	322	11.9	+02.5	02
03	333	17.8	+02.5	334	16.9	+02.5	335	16.1	+02.4	336	15.2	+02.5	337	14.4	+02.4	03
04	348	20.3	+02.4	349	19.4	+02.5	350	18.5	+02.5	351	17.7	+02.4	352	16.8	+02.5	04
05	3	22.7	+02.5	4	21.9	+02.4	5	21.0	+02.5	6	20.1	+02.5	7	19.3	+02.4	05
06	18	25.2	+02.5	19	24.3	+02.5	20	23.5	+02.4	21	22.6	+02.5	22	21.7	+02.5	06
07	33	27.7	+02.4	34	26.8	+02.5	35	25.9	+02.5	36	25.1	+02.4	37	24.2	+02.5	07
08	48	30.1	+02.5	49	29.3	+02.4	50	28.4	+02.5	51	27.5	+02.5	52	26.7	+02.4	08
09	63	32.6	+02.4	64	31.7	+02.5	65	30.9	+02.4	66	30.0	+02.5	67	29.1	+02.5	09
10	78	35.0	+02.5	79	34.2	+02.5	80	33.3	+02.5	81	32.5	+02.4	82	31.6	+02.5	10
11	93	37.5	+02.5	94	36.7	+02.4	95	35.8	+02.5	96	34.9	+02.5	97	34.1	+02.4	11
12	108	40.0	+02.4	109	39.1	+02.5	110	38.3	+02.4	111	37.4	+02.5	112	36.5	+02.5	12
13	123	42.4	+02.5	124	41.6	+02.4	125	40.7	+02.5	126	39.9	+02.4	127	39.0	+02.5	13
14	138	44.9	+02.5	139	44.0	+02.5	140	43.2	+02.4	141	42.3	+02.5	142	41.5	+02.4	14
15	153	47.4	+02.4	154	46.5	+02.5	155	45.6	+02.5	156	44.8	+02.5	157	43.9	+02.5	15
16	168	49.8	+02.5	169	49.0	+02.4	170	48.1	+02.5	171	47.3	+02.4	172	46.4	+02.5	16
17	183	52.3	+02.5	184	51.4	+02.5	185	50.6	+02.4	186	49.7	+02.5	187	48.9	+02.4	17
18	198	54.8	+02.4	199	53.9	+02.5	200	53.0	+02.5	201	52.2	+02.4	202	51.3	+02.5	18
19	213	57.2	+02.5	214	56.4	+02.4	215	55.5	+02.5	216	54.6	+02.5	217	53.8	+02.4	19
20	228	59.7	+02.5	229	58.8	+02.5	230	58.0	+02.4	231	57.1	+02.5	232	56.2	+02.5	20
21	244	02.2	+02.4	245	01.3	+02.5	246	00.4	+02.5	246	59.6	+02.4	247	58.7	+02.5	21
22	259	04.6	+02.5	260	03.8	+02.4	261	02.9	+02.5	262	02.0	+02.5	263	01.2	+02.4	22
23	274	07.1	+02.4	275	06.2	+02.5	276	05.4	+02.4	277	04.5	+02.5	278	03.6	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	° ' "		° ' "	° ' "				
Alpheratz	357	34.3	N 29	13.8	Gienah	175	43.2	S 17	41.1
Ankaa	353	06.8	S 42	09.6	Acrux	172	59.8	S 63	14.7
Schedir	349	30.5	N 56	40.4	Gacrux	171	51.3	S 57	15.5
Diphda	348	46.9	S 17	50.6	Alioth	166	12.7	N 55	49.5
Achernar	335	20.0	S 57	06.1	Spica	158	21.8	S 11	17.7
Hamal	327	50.9	N 23	35.0	Alkaid	152	51.5	N 49	11.4
Polaris	314	05.4	N 89	22.0	Hadar	148	35.2	S 60	30.0
Acamar	315	11.6	S 40	11.9	Menkent	147	56.7	S 36	29.6
Menkar	314	05.9	N 04	11.5	Arcturus	145	47.0	N 19	03.9
Mirfak	308	28.0	N 49	56.9	Rigel Kentaurus	139	36.5	S 60	56.9
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.7	N 46	01.5	Kocab	137	19.2	N 74	03.3
Rigel	281	03.8	S 08	10.2	Alphecca	126	03.2	N 26	37.9
Bellatrix	278	22.7	N 06	22.4	Antares	112	15.1	S 26	29.4
Elnath	278	01.7	N 28	37.8	Atria	107	08.4	S 69	04.5
Alnilam	275	37.6	S 01	11.1	Sabik	102	02.0	S 15	45.4
Betelgeuze	270	52.0	N 07	24.7	Shaula	96	09.4	S 37	07.4
Canopus	263	52.8	S 52	42.4	Rasalhague	95	57.9	N 12	32.6
Sirius	258	26.0	S 16	44.5	Etamin	90	41.5	N 51	29.2
Adhara	255	05.9	S 29	00.3	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.8	N 31	50.0	Vega	80	32.6	N 38	48.3
Procyon	244	50.5	N 05	10.0	Nunki	75	46.9	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.3	N 28	00.8
Avior	234	15.2	S 59	35.5	Altair	61	59.4	N 08	56.0
Suhail	222	46.4	S 43	32.2	Peacock	53	04.5	S 56	39.0
Miaplacidus	221	38.9	S 69	49.5	Deneb	49	25.1	N 45	22.2
Alphard	217	47.6	S 08	46.2	Enif	33	38.1	N 09	59.5
Regulus	207	34.1	N 11	50.6	Alnair	27	32.1	S 46	50.0
Dubhe	193	40.7	N 61	37.1	Formalhaut	15	14.0	S 29	29.0
Denebola	182	24.4	N 14	25.9	Markab	13	29.3	N 15	20.6

2025 - First Point of Aries / Selected Stars

UT	day 196 of 365			day 197 of 365			day 198 of 365			day 199 of 365			day 200 of 365			UT		
	July 15			July 16			July 17			July 18			July 19					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	293	06.1	+02.5	294	05.2	+02.5	295	04.4	+02.4	296	03.5	+02.5	297	02.7	+02.4	00		
01	308	08.6	+02.4	309	07.7	+02.5	310	06.8	+02.5	311	06.0	+02.4	312	05.1	+02.5	01		
02	323	11.0	+02.5	324	10.2	+02.4	325	09.3	+02.5	326	08.4	+02.5	327	07.6	+02.4	02		
03	338	13.5	+02.5	339	12.6	+02.5	340	11.8	+02.4	341	10.9	+02.5	342	10.0	+02.5	03		
04	353	16.0	+02.4	354	15.1	+02.5	355	14.2	+02.5	356	13.4	+02.4	357	12.5	+02.5	04		
05	8	18.4	+02.5	9	17.6	+02.4	10	16.7	+02.5	11	15.8	+02.5	12	15.0	+02.4	05		
06	23	20.9	+02.5	24	20.0	+02.5	25	19.2	+02.4	26	18.3	+02.5	27	17.4	+02.5	06		
07	38	23.4	+02.4	39	22.5	+02.5	40	21.6	+02.5	41	20.8	+02.4	42	19.9	+02.5	07		
08	53	25.8	+02.5	54	25.0	+02.4	55	24.1	+02.5	56	23.2	+02.5	57	22.4	+02.4	08		
09	68	28.3	+02.4	69	27.4	+02.5	70	26.6	+02.4	71	25.7	+02.5	72	24.8	+02.5	09		
10	83	30.7	+02.5	84	29.9	+02.4	85	29.0	+02.5	86	28.2	+02.4	87	27.3	+02.5	10		
11	98	33.2	+02.5	99	32.3	+02.5	100	31.5	+02.4	101	30.6	+02.5	102	29.8	+02.4	11		
12	113	35.7	+02.4	114	34.8	+02.5	115	33.9	+02.5	116	33.1	+02.4	117	32.2	+02.5	12		
13	128	38.1	+02.5	129	37.3	+02.4	130	36.4	+02.5	131	35.5	+02.5	132	34.7	+02.5	13		
14	143	40.6	+02.5	144	39.7	+02.5	145	38.9	+02.4	146	38.0	+02.5	147	37.2	+02.4	14		
15	158	43.1	+02.4	159	42.2	+02.5	160	41.3	+02.5	161	40.5	+02.4	162	39.6	+02.5	15		
16	173	45.5	+02.5	174	44.7	+02.4	175	43.8	+02.5	176	42.9	+02.5	177	42.1	+02.4	16		
17	188	48.0	+02.5	189	47.1	+02.5	190	46.3	+02.4	191	45.4	+02.5	192	44.5	+02.5	17		
18	203	50.5	+02.4	204	49.6	+02.5	205	48.7	+02.5	206	47.9	+02.4	207	47.0	+02.5	18		
19	218	52.9	+02.5	219	52.1	+02.4	220	51.2	+02.5	221	50.3	+02.5	222	49.5	+02.4	19		
20	233	55.4	+02.4	234	54.5	+02.5	235	53.7	+02.4	236	52.8	+02.5	237	51.9	+02.5	20		
21	248	57.8	+02.5	249	57.0	+02.4	250	56.1	+02.5	251	55.3	+02.4	252	54.4	+02.5	21		
22	264	00.3	+02.5	264	59.4	+02.5	265	58.6	+02.5	266	57.7	+02.5	267	56.9	+02.4	22		
23	279	02.8	+02.4	280	01.9	+02.5	281	01.1	+02.4	282	00.2	+02.5	282	59.3	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.3	N 29	13.9	Gienah	175	43.2	S 17	41.1
Ankaa	353	06.7	S 42	09.6	Acrux	172	59.8	S 63	14.7
Schedir	349	30.5	N 56	40.4	Gacrux	171	51.4	S 57	15.5
Diphda	348	46.9	S 17	50.6	Alioth	166	12.8	N 55	49.5
Achernar	335	19.9	S 57	06.1	Spica	158	21.8	S 11	17.7
Hamal	327	50.9	N 23	35.0	Alkaid	152	51.5	N 49	11.4
Polaris	314	03.1	N 89	22.0	Hadar	148	35.3	S 60	30.0
Acamar	315	11.6	S 40	11.9	Menkent	147	56.7	S 36	29.6
Menkar	314	05.8	N 04	11.5	Arcturus	145	47.0	N 19	03.9
Mirfak	308	27.9	N 49	56.9	Rigel Kentaurus	139	36.5	S 60	56.9
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	21.7	N 46	01.5	Kocab	137	19.3	N 74	03.3
Rigel	281	03.7	S 08	10.2	Alphecca	126	03.2	N 26	37.9
Bellatrix	278	22.7	N 06	22.4	Antares	112	15.1	S 26	29.4
Elnath	278	01.7	N 28	37.8	Atria	107	08.4	S 69	04.6
Alnilam	275	37.6	S 01	11.1	Sabik	102	02.0	S 15	45.4
Betelgeuze	270	51.9	N 07	24.8	Shaula	96	09.4	S 37	07.4
Canopus	263	52.8	S 52	42.4	Rasalhague	95	57.9	N 12	32.6
Sirius	258	26.0	S 16	44.5	Etamin	90	41.5	N 51	29.2
Adhara	255	05.9	S 29	00.3	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.8	N 31	50.0	Vega	80	32.6	N 38	48.4
Procyon	244	50.5	N 05	10.1	Nunki	75	46.8	S 26	15.8
Pollux	243	16.8	N 27	58.0	Albireo	67	03.3	N 28	00.8
Avior	234	15.2	S 59	35.5	Altair	61	59.4	N 08	56.0
Suhail	222	46.4	S 43	32.2	Peacock	53	04.4	S 56	39.0
Miaplacidus	221	38.9	S 69	49.4	Deneb	49	25.1	N 45	22.2
Alphard	217	47.6	S 08	46.1	Enif	33	38.1	N 09	59.5
Regulus	207	34.1	N 11	50.6	Alnair	27	32.0	S 46	50.0
Dubhe	193	40.7	N 61	37.0	Formalhaut	15	13.9	S 29	29.0
Denebola	182	24.5	N 14	25.9	Markab	13	29.3	N 15	20.6

2025 - First Point of Aries / Selected Stars

UT	day 201 of 365			day 202 of 365			day 203 of 365			day 204 of 365			day 205 of 365			UT
	<i>July 20</i>			<i>July 21</i>			<i>July 22</i>			<i>July 23</i>			<i>July 24</i>			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	298	01.8	+02.5	299	00.9	+02.5	300	00.1	+02.4	300	59.2	+02.5	301	58.4	+02.4	00
01	313	04.3	+02.4	314	03.4	+02.5	315	02.5	+02.5	316	01.7	+02.4	317	00.8	+02.5	01
02	328	06.7	+02.5	329	05.9	+02.4	330	05.0	+02.5	331	04.1	+02.5	332	03.3	+02.5	02
03	343	09.2	+02.5	344	08.3	+02.5	345	07.5	+02.4	346	06.6	+02.5	347	05.8	+02.4	03
04	358	11.7	+02.4	359	10.8	+02.5	0	09.9	+02.5	1	09.1	+02.4	2	08.2	+02.5	04
05	13	14.1	+02.5	14	13.3	+02.4	15	12.4	+02.5	16	11.5	+02.5	17	10.7	+02.4	05
06	28	16.6	+02.4	29	15.7	+02.5	30	14.9	+02.4	31	14.0	+02.5	32	13.1	+02.5	06
07	43	19.0	+02.5	44	18.2	+02.4	45	17.3	+02.5	46	16.5	+02.4	47	15.6	+02.5	07
08	58	21.5	+02.5	59	20.6	+02.5	60	19.8	+02.5	61	18.9	+02.5	62	18.1	+02.4	08
09	73	24.0	+02.4	74	23.1	+02.5	75	22.3	+02.4	76	21.4	+02.5	77	20.5	+02.5	09
10	88	26.4	+02.5	89	25.6	+02.4	90	24.7	+02.5	91	23.9	+02.4	92	23.0	+02.5	10
11	103	28.9	+02.5	104	28.0	+02.5	105	27.2	+02.4	106	26.3	+02.5	107	25.5	+02.4	11
12	118	31.4	+02.4	119	30.5	+02.5	120	29.6	+02.5	121	28.8	+02.5	122	27.9	+02.5	12
13	133	33.8	+02.5	134	33.0	+02.4	135	32.1	+02.5	136	31.3	+02.4	137	30.4	+02.5	13
14	148	36.3	+02.5	149	35.4	+02.5	150	34.6	+02.4	151	33.7	+02.5	152	32.9	+02.4	14
15	163	38.8	+02.4	164	37.9	+02.5	165	37.0	+02.5	166	36.2	+02.4	167	35.3	+02.5	15
16	178	41.2	+02.5	179	40.4	+02.4	180	39.5	+02.5	181	38.6	+02.5	182	37.8	+02.5	16
17	193	43.7	+02.5	194	42.8	+02.5	195	42.0	+02.4	196	41.1	+02.5	197	40.3	+02.4	17
18	208	46.2	+02.4	209	45.3	+02.5	210	44.4	+02.5	211	43.6	+02.4	212	42.7	+02.5	18
19	223	48.6	+02.5	224	47.8	+02.4	225	46.9	+02.5	226	46.0	+02.5	227	45.2	+02.4	19
20	238	51.1	+02.4	239	50.2	+02.5	240	49.4	+02.4	241	48.5	+02.5	242	47.6	+02.5	20
21	253	53.5	+02.5	254	52.7	+02.4	255	51.8	+02.5	256	51.0	+02.4	257	50.1	+02.5	21
22	268	56.0	+02.5	269	55.1	+02.5	270	54.3	+02.5	271	53.4	+02.5	272	52.6	+02.4	22
23	283	58.5	+02.4	284	57.6	+02.5	285	56.8	+02.4	286	55.9	+02.5	287	55.0	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.2	N 29	13.9	Gienah	175	43.2	S 17	41.1
Ankaa	353	06.7	S 42	09.6	Acrux	172	59.8	S 63	14.7
Schedir	349	30.4	N 56	40.5	Gacrux	171	51.4	S 57	15.5
Diphda	348	46.8	S 17	50.6	Alioth	166	12.8	N 55	49.5
Achernar	335	19.9	S 57	06.1	Spica	158	21.8	S 11	17.7
Hamal	327	50.8	N 23	35.0	Alkaid	152	51.6	N 49	11.4
Polaris	314	00.5	N 89	22.0	Hadar	148	35.3	S 60	30.0
Acamar	315	11.5	S 40	11.8	Menkent	147	56.7	S 36	29.6
Menkar	314	05.8	N 04	11.5	Arcturus	145	47.0	N 19	03.9
Mirfak	308	27.9	N 49	56.9	Rigel Kentaurus	139	36.6	S 60	56.9
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	21.7	N 46	01.5	Kocab	137	19.4	N 74	03.3
Rigel	281	03.7	S 08	10.2	Alphecca	126	03.2	N 26	37.9
Bellatrix	278	22.7	N 06	22.4	Antares	112	15.2	S 26	29.4
Elnath	278	01.6	N 28	37.8	Atria	107	08.4	S 69	04.6
Alnilam	275	37.6	S 01	11.0	Sabik	102	02.0	S 15	45.4
Betelgeuze	270	51.9	N 07	24.8	Shaula	96	09.4	S 37	07.4
Canopus	263	52.7	S 52	42.4	Rasalhague	95	57.9	N 12	32.6
Sirius	258	26.0	S 16	44.4	Etamin	90	41.5	N 51	29.2
Adhara	255	05.9	S 29	00.3	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.8	N 31	50.0	Vega	80	32.6	N 38	48.4
Procyon	244	50.4	N 05	10.1	Nunki	75	46.8	S 26	15.8
Pollux	243	16.8	N 27	57.9	Albireo	67	03.3	N 28	00.8
Avior	234	15.2	S 59	35.5	Altair	61	59.4	N 08	56.0
Suhail	222	46.4	S 43	32.2	Peacock	53	04.4	S 56	39.0
Miaplacidus	221	38.9	S 69	49.4	Deneb	49	25.1	N 45	22.2
Alphard	217	47.6	S 08	46.1	Enif	33	38.1	N 09	59.6
Regulus	207	34.1	N 11	50.6	Alnair	27	32.0	S 46	50.0
Dubhe	193	40.8	N 61	37.0	Formalhaut	15	13.9	S 29	28.9
Denebola	182	24.5	N 14	25.9	Markab	13	29.3	N 15	20.6

2025 - First Point of Aries / Selected Stars

UT	day 206 of 365			day 207 of 365			day 208 of 365			day 209 of 365			day 210 of 365			UT
	<i>July 25</i>			<i>July 26</i>			<i>July 27</i>			<i>July 28</i>			<i>July 29</i>			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	302	57.5	+02.5	303	56.6	+02.5	304	55.8	+02.4	305	54.9	+02.5	306	54.1	+02.4	00
01	317	60.0	+02.4	318	59.1	+02.5	319	58.2	+02.5	320	57.4	+02.4	321	56.5	+02.5	01
02	333	02.4	+02.5	334	01.6	+02.4	335	00.7	+02.5	335	59.8	+02.5	336	59.0	+02.4	02
03	348	04.9	+02.5	349	04.0	+02.5	350	03.2	+02.4	351	02.3	+02.5	352	01.4	+02.5	03
04	3	07.4	+02.4	4	06.5	+02.5	5	05.6	+02.5	6	04.8	+02.4	7	03.9	+02.5	04
05	18	09.8	+02.5	19	09.0	+02.4	20	08.1	+02.5	21	07.2	+02.5	22	06.4	+02.4	05
06	33	12.3	+02.4	34	11.4	+02.5	35	10.6	+02.4	36	09.7	+02.5	37	08.8	+02.5	06
07	48	14.7	+02.5	49	13.9	+02.5	50	13.0	+02.5	51	12.2	+02.4	52	11.3	+02.5	07
08	63	17.2	+02.5	64	16.4	+02.4	65	15.5	+02.5	66	14.6	+02.5	67	13.8	+02.4	08
09	78	19.7	+02.4	79	18.8	+02.5	80	18.0	+02.4	81	17.1	+02.5	82	16.2	+02.5	09
10	93	22.1	+02.5	94	21.3	+02.4	95	20.4	+02.5	96	19.6	+02.4	97	18.7	+02.5	10
11	108	24.6	+02.5	109	23.7	+02.5	110	22.9	+02.4	111	22.0	+02.5	112	21.2	+02.4	11
12	123	27.1	+02.4	124	26.2	+02.5	125	25.3	+02.5	126	24.5	+02.4	127	23.6	+02.5	12
13	138	29.5	+02.5	139	28.7	+02.4	140	27.8	+02.5	141	26.9	+02.5	142	26.1	+02.5	13
14	153	32.0	+02.5	154	31.1	+02.5	155	30.3	+02.4	156	29.4	+02.5	157	28.6	+02.4	14
15	168	34.5	+02.4	169	33.6	+02.5	170	32.7	+02.5	171	31.9	+02.4	172	31.0	+02.5	15
16	183	36.9	+02.5	184	36.1	+02.4	185	35.2	+02.5	186	34.3	+02.5	187	33.5	+02.4	16
17	198	39.4	+02.5	199	38.5	+02.5	200	37.7	+02.4	201	36.8	+02.5	202	35.9	+02.5	17
18	213	41.9	+02.4	214	41.0	+02.5	215	40.1	+02.5	216	39.3	+02.4	217	38.4	+02.5	18
19	228	44.3	+02.5	229	43.5	+02.4	230	42.6	+02.5	231	41.7	+02.5	232	40.9	+02.4	19
20	243	46.8	+02.4	244	45.9	+02.5	245	45.1	+02.4	246	44.2	+02.5	247	43.3	+02.5	20
21	258	49.2	+02.5	259	48.4	+02.5	260	47.5	+02.5	261	46.7	+02.4	262	45.8	+02.5	21
22	273	51.7	+02.5	274	50.9	+02.4	275	50.0	+02.5	276	49.1	+02.5	277	48.3	+02.4	22
23	288	54.2	+02.4	289	53.3	+02.5	290	52.5	+02.4	291	51.6	+02.5	292	50.7	+02.5	23

	SHA	Dec		SHA	Dec
	°	'	"	°	'
Alpheratz	357	34.2	N 29 13.9	Gienah	175 43.2 S 17 41.1
Ankaa	353	06.6	S 42 09.6	Acrux	172 59.9 S 63 14.7
Schedir	349	30.4	N 56 40.5	Gacrux	171 51.4 S 57 15.5
Diphda	348	46.8	S 17 50.6	Alioth	166 12.8 N 55 49.5
Achernar	335	19.8	S 57 06.0	Spica	158 21.8 S 11 17.7
Hamal	327	50.8	N 23 35.0	Alkaid	152 51.6 N 49 11.4
Polaris	313	57.6	N 89 22.0	Hadar	148 35.3 S 60 30.0
Acamar	315	11.5	S 40 11.8	Menkent	147 56.7 S 36 29.6
Menkar	314	05.7	N 04 11.5	Arcturus	145 47.0 N 19 03.9
Mirfak	308	27.8	N 49 56.9	Rigel Kentaurus	139 36.6 S 60 56.9
Aldebaran	290	39.3	N 16 33.7	Zubenelgenubi	136 55.4 S 16 08.9
Capella	280	21.6	N 46 01.5	Kocab	137 19.5 N 74 03.3
Rigel	281	03.7	S 08 10.2	Alphecca	126 03.2 N 26 37.9
Bellatrix	278	22.6	N 06 22.4	Antares	112 15.1 S 26 29.4
Elnath	278	01.6	N 28 37.8	Atria	107 08.5 S 69 04.6
Alnilam	275	37.5	S 01 11.0	Sabik	102 02.0 S 15 45.4
Betelgeuze	270	51.9	N 07 24.8	Shaula	96 09.4 S 37 07.4
Canopus	263	52.7	S 52 42.3	Rasalhague	95 57.9 N 12 32.7
Sirius	258	25.9	S 16 44.4	Etamin	90 41.5 N 51 29.3
Adhara	255	05.9	S 29 00.3	Kaus Australis	83 31.5 S 34 22.3
Castor	245	56.8	N 31 50.0	Vega	80 32.6 N 38 48.4
Procyon	244	50.4	N 05 10.1	Nunki	75 46.8 S 26 15.8
Pollux	243	16.7	N 27 57.9	Albireo	67 03.3 N 28 00.8
Avior	234	15.2	S 59 35.5	Altair	61 59.4 N 08 56.0
Suhail	222	46.4	S 43 32.1	Peacock	53 04.4 S 56 39.0
Miaplacidus	221	38.9	S 69 49.4	Deneb	49 25.0 N 45 22.3
Alphard	217	47.6	S 08 46.1	Enif	33 38.0 N 09 59.6
Regulus	207	34.1	N 11 50.6	Alnair	27 32.0 S 46 50.0
Dubhe	193	40.8	N 61 37.0	Formalhaut	15 13.9 S 29 28.9
Denebola	182	24.5	N 14 25.9	Markab	13 29.2 N 15 20.6

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UT	day 211 of 365			day 212 of 365			day 213 of 365			day 214 of 365			day 215 of 365			UT
	July 30			July 31			August 1			August 2			August 3			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	307	53.2	+02.5	308	52.3	+02.5	309	51.5	+02.4	310	50.6	+02.5	311	49.7	+02.5	00
01	322	55.7	+02.4	323	54.8	+02.5	324	53.9	+02.5	325	53.1	+02.4	326	52.2	+02.5	01
02	337	58.1	+02.5	338	57.3	+02.4	339	56.4	+02.5	340	55.5	+02.5	341	54.7	+02.4	02
03	353	00.6	+02.4	353	59.7	+02.5	354	58.9	+02.4	355	58.0	+02.5	356	57.1	+02.5	03
04	8	03.0	+02.5	9	02.2	+02.4	10	01.3	+02.5	11	00.5	+02.4	11	59.6	+02.5	04
05	23	05.5	+02.5	24	04.6	+02.5	25	03.8	+02.5	26	02.9	+02.5	27	02.1	+02.4	05
06	38	08.0	+02.4	39	07.1	+02.5	40	06.3	+02.4	41	05.4	+02.5	42	04.5	+02.5	06
07	53	10.4	+02.5	54	09.6	+02.4	55	08.7	+02.5	56	07.9	+02.4	57	07.0	+02.5	07
08	68	12.9	+02.5	69	12.0	+02.5	70	11.2	+02.4	71	10.3	+02.5	72	09.5	+02.4	08
09	83	15.4	+02.4	84	14.5	+02.5	85	13.6	+02.5	86	12.8	+02.4	87	11.9	+02.5	09
10	98	17.8	+02.5	99	17.0	+02.4	100	16.1	+02.5	101	15.2	+02.5	102	14.4	+02.5	10
11	113	20.3	+02.5	114	19.4	+02.5	115	18.6	+02.4	116	17.7	+02.5	117	16.9	+02.4	11
12	128	22.8	+02.4	129	21.9	+02.5	130	21.0	+02.5	131	20.2	+02.4	132	19.3	+02.5	12
13	143	25.2	+02.5	144	24.4	+02.4	145	23.5	+02.5	146	22.6	+02.5	147	21.8	+02.4	13
14	158	27.7	+02.5	159	26.8	+02.5	160	26.0	+02.4	161	25.1	+02.5	162	24.2	+02.5	14
15	173	30.2	+02.4	174	29.3	+02.5	175	28.4	+02.5	176	27.6	+02.4	177	26.7	+02.5	15
16	188	32.6	+02.5	189	31.8	+02.4	190	30.9	+02.5	191	30.0	+02.5	192	29.2	+02.4	16
17	203	35.1	+02.4	204	34.2	+02.5	205	33.4	+02.4	206	32.5	+02.5	207	31.6	+02.5	17
18	218	37.5	+02.5	219	36.7	+02.4	220	35.8	+02.5	221	35.0	+02.4	222	34.1	+02.5	18
19	233	40.0	+02.5	234	39.1	+02.5	235	38.3	+02.4	236	37.4	+02.5	237	36.6	+02.4	19
20	248	42.5	+02.4	249	41.6	+02.5	250	40.7	+02.5	251	39.9	+02.5	252	39.0	+02.5	20
21	263	44.9	+02.5	264	44.1	+02.4	265	43.2	+02.5	266	42.4	+02.4	267	41.5	+02.5	21
22	278	47.4	+02.5	279	46.5	+02.5	280	45.7	+02.4	281	44.8	+02.5	282	44.0	+02.4	22
23	293	49.9	+02.4	294	49.0	+02.5	295	48.1	+02.5	296	47.3	+02.4	297	46.4	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.1	N 29	13.9	Gienah	175	43.2	S 17	41.1
Ankaa	353	06.6	S 42	09.6	Acrux	172	59.9	S 63	14.7
Schedir	349	30.3	N 56	40.5	Gacrux	171	51.5	S 57	15.5
Diphda	348	46.8	S 17	50.6	Alioth	166	12.9	N 55	49.5
Achernar	335	19.8	S 57	06.0	Spica	158	21.9	S 11	17.7
Hamal	327	50.7	N 23	35.0	Alkaid	152	51.6	N 49	11.4
Polaris	313	55.2	N 89	22.0	Hadar	148	35.4	S 60	30.0
Acamar	315	11.4	S 40	11.8	Menkent	147	56.8	S 36	29.6
Menkar	314	05.7	N 04	11.5	Arcturus	145	47.1	N 19	03.9
Mirfak	308	27.7	N 49	57.0	Rigel Kentaurus	139	36.6	S 60	56.9
Aldebaran	290	39.3	N 16	33.7	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	21.6	N 46	01.5	Kocab	137	19.6	N 74	03.3
Rigel	281	03.6	S 08	10.2	Alphecca	126	03.3	N 26	37.9
Bellatrix	278	22.6	N 06	22.5	Antares	112	15.2	S 26	29.4
Elnath	278	01.6	N 28	37.8	Atria	107	08.5	S 69	04.6
Alnilam	275	37.5	S 01	11.0	Sabik	102	02.0	S 15	45.4
Betelgeuze	270	51.9	N 07	24.8	Shaula	96	09.4	S 37	07.4
Canopus	263	52.7	S 52	42.3	Rasalhague	95	57.9	N 12	32.7
Sirius	258	25.9	S 16	44.4	Etamin	90	41.5	N 51	29.3
Adhara	255	05.8	S 29	00.2	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.8	N 31	50.0	Vega	80	32.6	N 38	48.4
Procyon	244	50.4	N 05	10.1	Nunki	75	46.8	S 26	15.9
Pollux	243	16.7	N 27	57.9	Albireo	67	03.3	N 28	00.9
Avior	234	15.2	S 59	35.4	Altair	61	59.4	N 08	56.1
Suhail	222	46.4	S 43	32.1	Peacock	53	04.4	S 56	39.1
Miaplacidus	221	39.0	S 69	49.4	Deneb	49	25.0	N 45	22.3
Alphard	217	47.6	S 08	46.1	Enif	33	38.0	N 09	59.6
Regulus	207	34.1	N 11	50.6	Alnair	27	31.9	S 46	50.0
Dubhe	193	40.8	N 61	37.0	Formalhaut	15	13.8	S 29	28.9
Denebola	182	24.5	N 14	25.9	Markab	13	29.2	N 15	20.6

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UT	day 216 of 365			day 217 of 365			day 218 of 365			day 219 of 365			day 220 of 365			UT		
	August 4			August 5			August 6			August 7			August 8					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	312	48.9	+02.4	313	48.0	+02.5	314	47.2	+02.4	315	46.3	+02.5	316	45.4	+02.5	00		
01	327	51.3	+02.5	328	50.5	+02.5	329	49.6	+02.5	330	48.8	+02.4	331	47.9	+02.5	01		
02	342	53.8	+02.5	343	53.0	+02.4	344	52.1	+02.5	345	51.2	+02.5	346	50.4	+02.4	02		
03	357	56.3	+02.4	358	55.4	+02.5	359	54.6	+02.4	0	53.7	+02.5	1	52.8	+02.5	03		
04	12	58.7	+02.5	13	57.9	+02.4	14	57.0	+02.5	15	56.2	+02.4	16	55.3	+02.5	04		
05	28	01.2	+02.5	29	00.3	+02.5	29	59.5	+02.5	30	58.6	+02.5	31	57.8	+02.4	05		
06	43	03.7	+02.4	44	02.8	+02.5	45	02.0	+02.4	46	01.1	+02.5	47	00.2	+02.5	06		
07	58	06.1	+02.5	59	05.3	+02.4	60	04.4	+02.5	61	03.6	+02.4	62	02.7	+02.5	07		
08	73	08.6	+02.5	74	07.7	+02.5	75	06.9	+02.4	76	06.0	+02.5	77	05.2	+02.4	08		
09	88	11.1	+02.4	89	10.2	+02.5	90	09.3	+02.5	91	08.5	+02.4	92	07.6	+02.5	09		
10	103	13.5	+02.5	104	12.7	+02.4	105	11.8	+02.5	106	10.9	+02.5	107	10.1	+02.5	10		
11	118	16.0	+02.5	119	15.1	+02.5	120	14.3	+02.4	121	13.4	+02.5	122	12.6	+02.4	11		
12	133	18.5	+02.4	134	17.6	+02.5	135	16.7	+02.5	136	15.9	+02.4	137	15.0	+02.5	12		
13	148	20.9	+02.5	149	20.1	+02.4	150	19.2	+02.5	151	18.3	+02.5	152	17.5	+02.4	13		
14	163	23.4	+02.4	164	22.5	+02.5	165	21.7	+02.4	166	20.8	+02.5	167	19.9	+02.5	14		
15	178	25.8	+02.5	179	25.0	+02.5	180	24.1	+02.5	181	23.3	+02.4	182	22.4	+02.5	15		
16	193	28.3	+02.5	194	27.5	+02.4	195	26.6	+02.5	196	25.7	+02.5	197	24.9	+02.4	16		
17	208	30.8	+02.4	209	29.9	+02.5	210	29.1	+02.4	211	28.2	+02.5	212	27.3	+02.5	17		
18	223	33.2	+02.5	224	32.4	+02.4	225	31.5	+02.5	226	30.7	+02.4	227	29.8	+02.5	18		
19	238	35.7	+02.5	239	34.8	+02.5	240	34.0	+02.4	241	33.1	+02.5	242	32.3	+02.4	19		
20	253	38.2	+02.4	254	37.3	+02.5	255	36.4	+02.5	256	35.6	+02.5	257	34.7	+02.5	20		
21	268	40.6	+02.5	269	39.8	+02.4	270	38.9	+02.5	271	38.1	+02.4	272	37.2	+02.5	21		
22	283	43.1	+02.5	284	42.2	+02.5	285	41.4	+02.4	286	40.5	+02.5	287	39.7	+02.4	22		
23	298	45.6	+02.4	299	44.7	+02.5	300	43.8	+02.5	301	43.0	+02.4	302	42.1	+02.5	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.1	N 29	14.0	Gienah	175	43.2	S 17	41.1
Ankaa	353	06.5	S 42	09.6	Acrux	172	60.0	S 63	14.7
Schedir	349	30.3	N 56	40.5	Gacrux	171	51.5	S 57	15.5
Diphda	348	46.7	S 17	50.6	Alioth	166	12.9	N 55	49.5
Achernar	335	19.7	S 57	06.0	Spica	158	21.9	S 11	17.7
Hamal	327	50.7	N 23	35.1	Alkaid	152	51.7	N 49	11.4
Polaris	313	52.3	N 89	22.0	Hadar	148	35.4	S 60	30.0
Acamar	315	11.4	S 40	11.8	Menkent	147	56.8	S 36	29.6
Menkar	314	05.7	N 04	11.5	Arcturus	145	47.1	N 19	03.9
Mirfak	308	27.7	N 49	57.0	Rigel Kentaurus	139	36.7	S 60	56.9
Aldebaran	290	39.3	N 16	33.8	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	21.5	N 46	01.5	Kocab	137	19.7	N 74	03.3
Rigel	281	03.6	S 08	10.2	Alphecca	126	03.3	N 26	37.9
Bellatrix	278	22.6	N 06	22.5	Antares	112	15.2	S 26	29.4
Elnath	278	01.5	N 28	37.8	Atria	107	08.6	S 69	04.6
Alnilam	275	37.5	S 01	11.0	Sabik	102	02.0	S 15	45.4
Betelgeuze	270	51.8	N 07	24.8	Shaula	96	09.4	S 37	07.4
Canopus	263	52.6	S 52	42.3	Rasalhague	95	57.9	N 12	32.7
Sirius	258	25.9	S 16	44.4	Etamin	90	41.6	N 51	29.3
Adhara	255	05.8	S 29	00.2	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.7	N 31	50.0	Vega	80	32.6	N 38	48.4
Procyon	244	50.4	N 05	10.1	Nunki	75	46.8	S 26	15.9
Pollux	243	16.7	N 27	57.9	Albireo	67	03.3	N 28	00.9
Avior	234	15.2	S 59	35.4	Altair	61	59.4	N 08	56.1
Suhail	222	46.4	S 43	32.1	Peacock	53	04.4	S 56	39.1
Miaplacidus	221	39.0	S 69	49.4	Deneb	49	25.0	N 45	22.3
Alphard	217	47.6	S 08	46.1	Enif	33	38.0	N 09	59.6
Regulus	207	34.1	N 11	50.6	Alnair	27	31.9	S 46	50.0
Dubhe	193	40.8	N 61	37.0	Formalhaut	15	13.8	S 29	28.9
Denebola	182	24.5	N 14	25.9	Markab	13	29.2	N 15	20.6

2025 - First Point of Aries / Selected Stars

UT	day 221 of 365		day 222 of 365		day 223 of 365		day 224 of 365		day 225 of 365		UT
	August 9		August 10		August 11		August 12		August 13		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	317	44.6 +02.5	318	43.7 +02.5	319	42.9 +02.4	320	42.0 +02.5	321	41.1 +02.5	00
01	332	47.1 +02.4	333	46.2 +02.5	334	45.3 +02.5	335	44.5 +02.4	336	43.6 +02.5	01
02	347	49.5 +02.5	348	48.7 +02.4	349	47.8 +02.5	350	46.9 +02.5	351	46.1 +02.4	02
03	2	52.0 +02.4	3	51.1 +02.5	4	50.3 +02.4	5	49.4 +02.5	6	48.5 +02.5	03
04	17	54.4 +02.5	18	53.6 +02.4	19	52.7 +02.5	20	51.9 +02.4	21	51.0 +02.5	04
05	32	56.9 +02.5	33	56.0 +02.5	34	55.2 +02.4	35	54.3 +02.5	36	53.5 +02.4	05
06	47	59.4 +02.4	48	58.5 +02.5	49	57.6 +02.5	50	56.8 +02.4	51	55.9 +02.5	06
07	63	01.8 +02.5	64	01.0 +02.4	65	00.1 +02.5	65	59.2 +02.5	66	58.4 +02.4	07
08	78	04.3 +02.5	79	03.4 +02.5	80	02.6 +02.4	81	01.7 +02.5	82	00.8 +02.5	08
09	93	06.8 +02.4	94	05.9 +02.5	95	05.0 +02.5	96	04.2 +02.4	97	03.3 +02.5	09
10	108	09.2 +02.5	109	08.4 +02.4	110	07.5 +02.5	111	06.6 +02.5	112	05.8 +02.4	10
11	123	11.7 +02.5	124	10.8 +02.5	125	10.0 +02.4	126	09.1 +02.5	127	08.2 +02.5	11
12	138	14.2 +02.4	139	13.3 +02.5	140	12.4 +02.5	141	11.6 +02.4	142	10.7 +02.5	12
13	153	16.6 +02.5	154	15.8 +02.4	155	14.9 +02.5	156	14.0 +02.5	157	13.2 +02.4	13
14	168	19.1 +02.4	169	18.2 +02.5	170	17.4 +02.4	171	16.5 +02.5	172	15.6 +02.5	14
15	183	21.5 +02.5	184	20.7 +02.5	185	19.8 +02.5	186	19.0 +02.4	187	18.1 +02.5	15
16	198	24.0 +02.5	199	23.2 +02.4	200	22.3 +02.5	201	21.4 +02.5	202	20.6 +02.4	16
17	213	26.5 +02.4	214	25.6 +02.5	215	24.8 +02.4	216	23.9 +02.5	217	23.0 +02.5	17
18	228	28.9 +02.5	229	28.1 +02.4	230	27.2 +02.5	231	26.4 +02.4	232	25.5 +02.5	18
19	243	31.4 +02.5	244	30.5 +02.5	245	29.7 +02.4	246	28.8 +02.5	247	28.0 +02.4	19
20	258	33.9 +02.4	259	33.0 +02.5	260	32.1 +02.5	261	31.3 +02.4	262	30.4 +02.5	20
21	273	36.3 +02.5	274	35.5 +02.4	275	34.6 +02.5	276	33.7 +02.5	277	32.9 +02.4	21
22	288	38.8 +02.5	289	37.9 +02.5	290	37.1 +02.4	291	36.2 +02.5	292	35.3 +02.5	22
23	303	41.3 +02.4	304	40.4 +02.5	305	39.5 +02.5	306	38.7 +02.4	307	37.8 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.1	N 29 14.0	Gienah	175 43.2	S 17 41.1
Ankaa	353 06.5	S 42 09.6	Acrux	172 60.0	S 63 14.7
Schedir	349 30.2	N 56 40.5	Gacrux	171 51.5	S 57 15.5
Diphda	348 46.7	S 17 50.6	Alioth	166 12.9	N 55 49.5
Achernar	335 19.6	S 57 06.0	Spica	158 21.9	S 11 17.7
Hamal	327 50.6	N 23 35.1	Alkaid	152 51.7	N 49 11.4
Polaris	313 49.5	N 89 22.0	Hadar	148 35.4	S 60 30.0
Acamar	315 11.3	S 40 11.8	Menkent	147 56.8	S 36 29.6
Menkar	314 05.6	N 04 11.6	Arcturus	145 47.1	N 19 03.9
Mirfak	308 27.6	N 49 57.0	Rigel Kentaurus	139 36.7	S 60 56.9
Aldebaran	290 39.2	N 16 33.8	Zubenelgenubi	136 55.4	S 16 08.9
Capella	280 21.5	N 46 01.5	Kocab	137 19.8	N 74 03.3
Rigel	281 03.6	S 08 10.1	Alphecca	126 03.3	N 26 37.9
Bellatrix	278 22.5	N 06 22.5	Antares	112 15.2	S 26 29.4
Elnath	278 01.5	N 28 37.8	Atria	107 08.6	S 69 04.6
Alnilam	275 37.4	S 01 11.0	Sabik	102 02.0	S 15 45.4
Betelgeuze	270 51.8	N 07 24.8	Shaula	96 09.4	S 37 07.4
Canopus	263 52.6	S 52 42.3	Rasalhague	95 57.9	N 12 32.7
Sirius	258 25.9	S 16 44.4	Etamin	90 41.6	N 51 29.3
Adhara	255 05.8	S 29 00.2	Kaus Australis	83 31.5	S 34 22.3
Castor	245 56.7	N 31 50.0	Vega	80 32.6	N 38 48.5
Procyon	244 50.4	N 05 10.1	Nunki	75 46.8	S 26 15.9
Pollux	243 16.7	N 27 57.9	Albireo	67 03.3	N 28 00.9
Avior	234 15.2	S 59 35.4	Altair	61 59.4	N 08 56.1
Suhail	222 46.4	S 43 32.1	Peacock	53 04.3	S 56 39.1
Miaplacidus	221 39.0	S 69 49.3	Deneb	49 25.0	N 45 22.4
Alphard	217 47.6	S 08 46.1	Enif	33 38.0	N 09 59.6
Regulus	207 34.1	N 11 50.6	Alnair	27 31.9	S 46 50.0
Dubhe	193 40.8	N 61 36.9	Formalhaut	15 13.8	S 29 28.9
Denebola	182 24.5	N 14 25.9	Markab	13 29.1	N 15 20.7

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UT	day 226 of 365		day 227 of 365		day 228 of 365		day 229 of 365		day 230 of 365		UT					
	August 14		August 15		August 16		August 17		August 18							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	322	40.3	+02.4	323	39.4	+02.5	324	38.6	+02.4	325	37.7	+02.5	326	36.8	+02.5	00
01	337	42.7	+02.5	338	41.9	+02.4	339	41.0	+02.5	340	40.2	+02.4	341	39.3	+02.5	01
02	352	45.2	+02.5	353	44.3	+02.5	354	43.5	+02.4	355	42.6	+02.5	356	41.8	+02.4	02
03	7	47.7	+02.4	8	46.8	+02.5	9	45.9	+02.5	10	45.1	+02.4	11	44.2	+02.5	03
04	22	50.1	+02.5	23	49.3	+02.4	24	48.4	+02.5	25	47.5	+02.5	26	46.7	+02.5	04
05	37	52.6	+02.5	38	51.7	+02.5	39	50.9	+02.4	40	50.0	+02.5	41	49.2	+02.4	05
06	52	55.1	+02.4	53	54.2	+02.5	54	53.3	+02.5	55	52.5	+02.4	56	51.6	+02.5	06
07	67	57.5	+02.5	68	56.7	+02.4	69	55.8	+02.5	70	54.9	+02.5	71	54.1	+02.4	07
08	82	60.0	+02.5	83	59.1	+02.5	84	58.3	+02.4	85	57.4	+02.5	86	56.5	+02.5	08
09	98	02.5	+02.4	99	01.6	+02.5	100	00.7	+02.5	100	59.9	+02.4	101	59.0	+02.5	09
10	113	04.9	+02.5	114	04.1	+02.4	115	03.2	+02.5	116	02.3	+02.5	117	01.5	+02.4	10
11	128	07.4	+02.4	129	06.5	+02.5	130	05.7	+02.4	131	04.8	+02.5	132	03.9	+02.5	11
12	143	09.8	+02.5	144	09.0	+02.4	145	08.1	+02.5	146	07.3	+02.4	147	06.4	+02.5	12
13	158	12.3	+02.5	159	11.4	+02.5	160	10.6	+02.4	161	09.7	+02.5	162	08.9	+02.4	13
14	173	14.8	+02.4	174	13.9	+02.5	175	13.0	+02.5	176	12.2	+02.5	177	11.3	+02.5	14
15	188	17.2	+02.5	189	16.4	+02.4	190	15.5	+02.5	191	14.7	+02.4	192	13.8	+02.5	15
16	203	19.7	+02.5	204	18.8	+02.5	205	18.0	+02.4	206	17.1	+02.5	207	16.3	+02.4	16
17	218	22.2	+02.4	219	21.3	+02.5	220	20.4	+02.5	221	19.6	+02.4	222	18.7	+02.5	17
18	233	24.6	+02.5	234	23.8	+02.4	235	22.9	+02.5	236	22.0	+02.5	237	21.2	+02.5	18
19	248	27.1	+02.5	249	26.2	+02.5	250	25.4	+02.4	251	24.5	+02.5	252	23.7	+02.4	19
20	263	29.6	+02.4	264	28.7	+02.5	265	27.8	+02.5	266	27.0	+02.4	267	26.1	+02.5	20
21	278	32.0	+02.5	279	31.2	+02.4	280	30.3	+02.5	281	29.4	+02.5	282	28.6	+02.4	21
22	293	34.5	+02.4	294	33.6	+02.5	295	32.8	+02.4	296	31.9	+02.5	297	31.0	+02.5	22
23	308	36.9	+02.5	309	36.1	+02.5	310	35.2	+02.5	311	34.4	+02.4	312	33.5	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.0	Gienah	175	43.3	S 17	41.1
Ankaa	353	06.4	S 42	09.6	Acrux	173	00.0	S 63	14.6
Schedir	349	30.2	N 56	40.6	Gacrux	171	51.6	S 57	15.5
Diphda	348	46.7	S 17	50.6	Alioth	166	12.9	N 55	49.5
Achernar	335	19.6	S 57	06.0	Spica	158	21.9	S 11	17.7
Hamal	327	50.6	N 23	35.1	Alkaid	152	51.7	N 49	11.4
Polaris	313	47.1	N 89	22.0	Hadar	148	35.5	S 60	30.0
Acamar	315	11.3	S 40	11.8	Menkent	147	56.8	S 36	29.6
Menkar	314	05.6	N 04	11.6	Arcturus	145	47.1	N 19	03.9
Mirfak	308	27.6	N 49	57.0	Rigel Kentaurus	139	36.8	S 60	56.9
Aldebaran	290	39.2	N 16	33.8	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	21.4	N 46	01.5	Kocab	137	19.8	N 74	03.3
Rigel	281	03.5	S 08	10.1	Alphecca	126	03.3	N 26	37.9
Bellatrix	278	22.5	N 06	22.5	Antares	112	15.2	S 26	29.4
Elnath	278	01.4	N 28	37.8	Atria	107	08.7	S 69	04.6
Alnilam	275	37.4	S 01	11.0	Sabik	102	02.1	S 15	45.4
Betelgeuze	270	51.8	N 07	24.8	Shaula	96	09.4	S 37	07.4
Canopus	263	52.6	S 52	42.3	Rasalhague	95	57.9	N 12	32.7
Sirius	258	25.8	S 16	44.4	Etamin	90	41.6	N 51	29.3
Adhara	255	05.8	S 29	00.2	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.7	N 31	50.0	Vega	80	32.7	N 38	48.5
Procyon	244	50.3	N 05	10.1	Nunki	75	46.8	S 26	15.9
Pollux	243	16.7	N 27	57.9	Albireo	67	03.3	N 28	00.9
Avior	234	15.2	S 59	35.3	Altair	61	59.4	N 08	56.1
Suhail	222	46.4	S 43	32.0	Peacock	53	04.3	S 56	39.1
Miaplacidus	221	39.0	S 69	49.3	Deneb	49	25.0	N 45	22.4
Alphard	217	47.6	S 08	46.1	Enif	33	38.0	N 09	59.6
Regulus	207	34.1	N 11	50.6	Alnair	27	31.9	S 46	50.0
Dubhe	193	40.8	N 61	36.9	Formalhaut	15	13.8	S 29	28.9
Denebola	182	24.5	N 14	25.9	Markab	13	29.1	N 15	20.7

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UT	day 231 of 365			day 232 of 365			day 233 of 365			day 234 of 365			day 235 of 365			UT		
	August 19			August 20			August 21			August 22			August 23					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	327	36.0	+02.4	328	35.1	+02.5	329	34.3	+02.4	330	33.4	+02.5	331	32.5	+02.5	00		
01	342	38.4	+02.5	343	37.6	+02.4	344	36.7	+02.5	345	35.9	+02.4	346	35.0	+02.5	01		
02	357	40.9	+02.5	358	40.0	+02.5	359	39.2	+02.4	0	38.3	+02.5	1	37.5	+02.4	02		
03	12	43.4	+02.4	13	42.5	+02.5	14	41.6	+02.5	15	40.8	+02.4	16	39.9	+02.5	03		
04	27	45.8	+02.5	28	45.0	+02.4	29	44.1	+02.5	30	43.2	+02.5	31	42.4	+02.5	04		
05	42	48.3	+02.5	43	47.4	+02.5	44	46.6	+02.4	45	45.7	+02.5	46	44.9	+02.4	05		
06	57	50.8	+02.4	58	49.9	+02.5	59	49.0	+02.5	60	48.2	+02.4	61	47.3	+02.5	06		
07	72	53.2	+02.5	73	52.4	+02.4	74	51.5	+02.5	75	50.6	+02.5	76	49.8	+02.4	07		
08	87	55.7	+02.5	88	54.8	+02.5	89	54.0	+02.4	90	53.1	+02.5	91	52.2	+02.5	08		
09	102	58.2	+02.4	103	57.3	+02.5	104	56.4	+02.5	105	55.6	+02.4	106	54.7	+02.5	09		
10	118	00.6	+02.5	118	59.8	+02.4	119	58.9	+02.5	120	58.0	+02.5	121	57.2	+02.4	10		
11	133	03.1	+02.4	134	02.2	+02.5	135	01.4	+02.4	136	00.5	+02.5	136	59.6	+02.5	11		
12	148	05.5	+02.5	149	04.7	+02.4	150	03.8	+02.5	151	03.0	+02.4	152	02.1	+02.5	12		
13	163	08.0	+02.5	164	07.1	+02.5	165	06.3	+02.5	166	05.4	+02.5	167	04.6	+02.4	13		
14	178	10.5	+02.4	179	09.6	+02.5	180	08.8	+02.4	181	07.9	+02.5	182	07.0	+02.5	14		
15	193	12.9	+02.5	194	12.1	+02.4	195	11.2	+02.5	196	10.4	+02.4	197	09.5	+02.5	15		
16	208	15.4	+02.5	209	14.5	+02.5	210	13.7	+02.4	211	12.8	+02.5	212	12.0	+02.4	16		
17	223	17.9	+02.4	224	17.0	+02.5	225	16.1	+02.5	226	15.3	+02.4	227	14.4	+02.5	17		
18	238	20.3	+02.5	239	19.5	+02.4	240	18.6	+02.5	241	17.7	+02.5	242	16.9	+02.4	18		
19	253	22.8	+02.5	254	21.9	+02.5	255	21.1	+02.4	256	20.2	+02.5	257	19.3	+02.5	19		
20	268	25.3	+02.4	269	24.4	+02.5	270	23.5	+02.5	271	22.7	+02.4	272	21.8	+02.5	20		
21	283	27.7	+02.5	284	26.9	+02.4	285	26.0	+02.5	286	25.1	+02.5	287	24.3	+02.4	21		
22	298	30.2	+02.4	299	29.3	+02.5	300	28.5	+02.4	301	27.6	+02.5	302	26.7	+02.5	22		
23	313	32.6	+02.5	314	31.8	+02.5	315	30.9	+02.5	316	30.1	+02.4	317	29.2	+02.5	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.0	Gienah	175	43.3	S 17	41.0
Ankaa	353	06.4	S 42	09.6	Acrux	173	00.1	S 63	14.6
Schedir	349	30.1	N 56	40.6	Gacrux	171	51.6	S 57	15.5
Diphda	348	46.6	S 17	50.6	Alioth	166	13.0	N 55	49.5
Achernar	335	19.5	S 57	06.0	Spica	158	21.9	S 11	17.7
Hamal	327	50.6	N 23	35.1	Alkaid	152	51.7	N 49	11.4
Polaris	313	44.0	N 89	22.0	Hadar	148	35.5	S 60	30.0
Acamar	315	11.3	S 40	11.8	Menkent	147	56.8	S 36	29.6
Menkar	314	05.6	N 04	11.6	Arcturus	145	47.1	N 19	03.9
Mirfak	308	27.5	N 49	57.0	Rigel Kentaurus	139	36.8	S 60	56.9
Aldebaran	290	39.1	N 16	33.8	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	21.4	N 46	01.5	Kocab	137	20.0	N 74	03.2
Rigel	281	03.5	S 08	10.1	Alphecca	126	03.3	N 26	37.9
Bellatrix	278	22.5	N 06	22.5	Antares	112	15.2	S 26	29.4
Elnath	278	01.4	N 28	37.8	Atria	107	08.7	S 69	04.6
Alnilam	275	37.4	S 01	11.0	Sabik	102	02.1	S 15	45.4
Betelgeuze	270	51.7	N 07	24.8	Shaula	96	09.5	S 37	07.4
Canopus	263	52.5	S 52	42.2	Rasalhague	95	57.9	N 12	32.7
Sirius	258	25.8	S 16	44.4	Etamin	90	41.6	N 51	29.3
Adhara	255	05.7	S 29	00.2	Kaus Australis	83	31.5	S 34	22.3
Castor	245	56.6	N 31	50.0	Vega	80	32.7	N 38	48.5
Procyon	244	50.3	N 05	10.1	Nunki	75	46.8	S 26	15.9
Pollux	243	16.6	N 27	57.9	Albireo	67	03.3	N 28	00.9
Avior	234	15.1	S 59	35.3	Altair	61	59.4	N 08	56.1
Suhail	222	46.4	S 43	32.0	Peacock	53	04.3	S 56	39.1
Miaplacidus	221	39.0	S 69	49.3	Deneb	49	25.0	N 45	22.4
Alphard	217	47.6	S 08	46.1	Enif	33	38.0	N 09	59.7
Regulus	207	34.1	N 11	50.6	Alnair	27	31.8	S 46	50.0
Dubhe	193	40.8	N 61	36.9	Formalhaut	15	13.7	S 29	28.9
Denebola	182	24.5	N 14	25.9	Markab	13	29.1	N 15	20.7

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UT	day 236 of 365			day 237 of 365			day 238 of 365			day 239 of 365			day 240 of 365			UT		
	August 24			August 25			August 26			August 27			August 28					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	332	31.7	+02.4	333	30.8	+02.5	334	29.9	+02.5	335	29.1	+02.4	336	28.2	+02.5	00		
01	347	34.1	+02.5	348	33.3	+02.4	349	32.4	+02.5	350	31.5	+02.5	351	30.7	+02.4	01		
02	2	36.6	+02.5	3	35.7	+02.5	4	34.9	+02.4	5	34.0	+02.5	6	33.1	+02.5	02		
03	17	39.1	+02.4	18	38.2	+02.5	19	37.3	+02.5	20	36.5	+02.4	21	35.6	+02.5	03		
04	32	41.5	+02.5	33	40.7	+02.4	34	39.8	+02.5	35	38.9	+02.5	36	38.1	+02.4	04		
05	47	44.0	+02.5	48	43.1	+02.5	49	42.3	+02.4	50	41.4	+02.5	51	40.5	+02.5	05		
06	62	46.5	+02.4	63	45.6	+02.5	64	44.7	+02.5	65	43.9	+02.4	66	43.0	+02.5	06		
07	77	48.9	+02.5	78	48.1	+02.4	79	47.2	+02.5	80	46.3	+02.5	81	45.5	+02.4	07		
08	92	51.4	+02.4	93	50.5	+02.5	94	49.7	+02.4	95	48.8	+02.5	96	47.9	+02.5	08		
09	107	53.8	+02.5	108	53.0	+02.4	109	52.1	+02.5	110	51.3	+02.4	111	50.4	+02.5	09		
10	122	56.3	+02.5	123	55.4	+02.5	124	54.6	+02.4	125	53.7	+02.5	126	52.9	+02.4	10		
11	137	58.8	+02.4	138	57.9	+02.5	139	57.0	+02.5	140	56.2	+02.4	141	55.3	+02.5	11		
12	153	01.2	+02.5	154	00.4	+02.4	154	59.5	+02.5	155	58.6	+02.5	156	57.8	+02.5	12		
13	168	03.7	+02.5	169	02.8	+02.5	170	02.0	+02.4	171	01.1	+02.5	172	00.3	+02.4	13		
14	183	06.2	+02.4	184	05.3	+02.5	185	04.4	+02.5	186	03.6	+02.4	187	02.7	+02.5	14		
15	198	08.6	+02.5	199	07.8	+02.4	200	06.9	+02.5	201	06.0	+02.5	202	05.2	+02.4	15		
16	213	11.1	+02.5	214	10.2	+02.5	215	09.4	+02.4	216	08.5	+02.5	217	07.6	+02.5	16		
17	228	13.6	+02.4	229	12.7	+02.5	230	11.8	+02.5	231	11.0	+02.4	232	10.1	+02.5	17		
18	243	16.0	+02.5	244	15.2	+02.4	245	14.3	+02.5	246	13.4	+02.5	247	12.6	+02.4	18		
19	258	18.5	+02.5	259	17.6	+02.5	260	16.8	+02.4	261	15.9	+02.5	262	15.0	+02.5	19		
20	273	21.0	+02.4	274	20.1	+02.5	275	19.2	+02.5	276	18.4	+02.4	277	17.5	+02.5	20		
21	288	23.4	+02.5	289	22.6	+02.4	290	21.7	+02.5	291	20.8	+02.5	292	20.0	+02.4	21		
22	303	25.9	+02.4	304	25.0	+02.5	305	24.2	+02.4	306	23.3	+02.5	307	22.4	+02.5	22		
23	318	28.3	+02.5	319	27.5	+02.4	320	26.6	+02.5	321	25.8	+02.4	322	24.9	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.0	N 29	14.0	Gienah	175	43.3	S 17	41.0
Ankaa	353	06.4	S 42	09.6	Acrux	173	00.1	S 63	14.6
Schedir	349	30.1	N 56	40.6	Gacrux	171	51.6	S 57	15.4
Diphda	348	46.6	S 17	50.6	Alioth	166	13.0	N 55	49.4
Achernar	335	19.5	S 57	06.0	Spica	158	21.9	S 11	17.7
Hamal	327	50.5	N 23	35.1	Alkaid	152	51.8	N 49	11.4
Polaris	313	41.5	N 89	22.0	Hadar	148	35.6	S 60	30.0
Acamar	315	11.2	S 40	11.8	Menkent	147	56.9	S 36	29.6
Menkar	314	05.5	N 04	11.6	Arcturus	145	47.1	N 19	03.9
Mirfak	308	27.4	N 49	57.0	Rigel Kentaurus	139	36.8	S 60	56.9
Aldebaran	290	39.1	N 16	33.8	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	21.3	N 46	01.5	Kocab	137	20.0	N 74	03.2
Rigel	281	03.5	S 08	10.1	Alphecca	126	03.4	N 26	37.9
Bellatrix	278	22.4	N 06	22.5	Antares	112	15.2	S 26	29.4
Elnath	278	01.3	N 28	37.8	Atria	107	08.7	S 69	04.6
Alnilam	275	37.3	S 01	11.0	Sabik	102	02.1	S 15	45.4
Betelgeuze	270	51.7	N 07	24.8	Shaula	96	09.5	S 37	07.4
Canopus	263	52.5	S 52	42.2	Rasalhague	95	58.0	N 12	32.7
Sirius	258	25.8	S 16	44.3	Etamin	90	41.7	N 51	29.4
Adhara	255	05.7	S 29	00.1	Kaus Australis	83	31.6	S 34	22.3
Castor	245	56.6	N 31	50.0	Vega	80	32.7	N 38	48.5
Procyon	244	50.3	N 05	10.1	Nunki	75	46.8	S 26	15.9
Pollux	243	16.6	N 27	57.9	Albireo	67	03.3	N 28	01.0
Avior	234	15.1	S 59	35.3	Altair	61	59.4	N 08	56.1
Suhail	222	46.4	S 43	32.0	Peacock	53	04.3	S 56	39.1
Miaplacidus	221	38.9	S 69	49.3	Deneb	49	25.0	N 45	22.4
Alphard	217	47.6	S 08	46.1	Enif	33	38.0	N 09	59.7
Regulus	207	34.1	N 11	50.6	Alnair	27	31.8	S 46	50.0
Dubhe	193	40.8	N 61	36.9	Formalhaut	15	13.7	S 29	28.9
Denebola	182	24.5	N 14	25.9	Markab	13	29.1	N 15	20.7

2025 - First Point of Aries / Selected Stars

UT	day 241 of 365		day 242 of 365		day 243 of 365		day 244 of 365		day 245 of 365		UT
	August 29		August 30		August 31		September 1		September 2		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	
00	337	27.4 +02.4	338	26.5 +02.5	339	25.6 +02.5	340	24.8 +02.4	341	23.9 +02.5	00
01	352	29.8 +02.5	353	29.0 +02.4	354	28.1 +02.5	355	27.2 +02.5	356	26.4 +02.4	01
02	7	32.3 +02.4	8	31.4 +02.5	9	30.6 +02.4	10	29.7 +02.5	11	28.8 +02.5	02
03	22	34.7 +02.5	23	33.9 +02.5	24	33.0 +02.5	25	32.2 +02.4	26	31.3 +02.5	03
04	37	37.2 +02.5	38	36.4 +02.4	39	35.5 +02.5	40	34.6 +02.5	41	33.8 +02.4	04
05	52	39.7 +02.4	53	38.8 +02.5	54	38.0 +02.4	55	37.1 +02.5	56	36.2 +02.5	05
06	67	42.1 +02.5	68	41.3 +02.4	69	40.4 +02.5	70	39.6 +02.4	71	38.7 +02.5	06
07	82	44.6 +02.5	83	43.7 +02.5	84	42.9 +02.4	85	42.0 +02.5	86	41.2 +02.4	07
08	97	47.1 +02.4	98	46.2 +02.5	99	45.3 +02.5	100	44.5 +02.4	101	43.6 +02.5	08
09	112	49.5 +02.5	113	48.7 +02.4	114	47.8 +02.5	115	46.9 +02.5	116	46.1 +02.5	09
10	127	52.0 +02.5	128	51.1 +02.5	129	50.3 +02.4	130	49.4 +02.5	131	48.6 +02.4	10
11	142	54.5 +02.4	143	53.6 +02.5	144	52.7 +02.5	145	51.9 +02.4	146	51.0 +02.5	11
12	157	56.9 +02.5	158	56.1 +02.4	159	55.2 +02.5	160	54.3 +02.5	161	53.5 +02.4	12
13	172	59.4 +02.5	173	58.5 +02.5	174	57.7 +02.4	175	56.8 +02.5	176	55.9 +02.5	13
14	188	01.9 +02.4	189	01.0 +02.5	190	00.1 +02.5	190	59.3 +02.4	191	58.4 +02.5	14
15	203	04.3 +02.5	204	03.5 +02.4	205	02.6 +02.5	206	01.7 +02.5	207	00.9 +02.4	15
16	218	06.8 +02.4	219	05.9 +02.5	220	05.1 +02.4	221	04.2 +02.5	222	03.3 +02.5	16
17	233	09.2 +02.5	234	08.4 +02.4	235	07.5 +02.5	236	06.7 +02.4	237	05.8 +02.5	17
18	248	11.7 +02.5	249	10.8 +02.5	250	10.0 +02.5	251	09.1 +02.5	252	08.3 +02.4	18
19	263	14.2 +02.4	264	13.3 +02.5	265	12.5 +02.4	266	11.6 +02.5	267	10.7 +02.5	19
20	278	16.6 +02.5	279	15.8 +02.4	280	14.9 +02.5	281	14.1 +02.4	282	13.2 +02.5	20
21	293	19.1 +02.5	294	18.2 +02.5	295	17.4 +02.4	296	16.5 +02.5	297	15.7 +02.4	21
22	308	21.6 +02.4	309	20.7 +02.5	310	19.8 +02.5	311	19.0 +02.4	312	18.1 +02.5	22
23	323	24.0 +02.5	324	23.2 +02.4	325	22.3 +02.5	326	21.4 +02.5	327	20.6 +02.5	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.0	N 29 14.1	Gienah	175 43.3	S 17 41.0
Ankaa	353 06.4	S 42 09.6	Acrux	173 00.1	S 63 14.6
Schedir	349 30.0	N 56 40.6	Gacrux	171 51.6	S 57 15.4
Diphda	348 46.6	S 17 50.6	Alioth	166 13.0	N 55 49.4
Achernar	335 19.4	S 57 06.1	Spica	158 21.9	S 11 17.7
Hamal	327 50.5	N 23 35.1	Alkaid	152 51.8	N 49 11.3
Polaris	313 39.0	N 89 22.1	Hadar	148 35.6	S 60 30.0
Acamar	315 11.2	S 40 11.8	Menkent	147 56.9	S 36 29.6
Menkar	314 05.5	N 04 11.6	Arcturus	145 47.2	N 19 03.9
Mirfak	308 27.4	N 49 57.0	Rigel Kentaurus	139 36.9	S 60 56.9
Aldebaran	290 39.1	N 16 33.8	Zubenelgenubi	136 55.5	S 16 08.9
Capella	280 21.3	N 46 01.5	Kocab	137 20.1	N 74 03.2
Rigel	281 03.4	S 08 10.1	Alphecca	126 03.4	N 26 37.9
Bellatrix	278 22.4	N 06 22.5	Antares	112 15.3	S 26 29.4
Elnath	278 01.3	N 28 37.8	Atria	107 08.8	S 69 04.6
Alnilam	275 37.3	S 01 11.0	Sabik	102 02.1	S 15 45.4
Betelgeuze	270 51.7	N 07 24.8	Shaula	96 09.5	S 37 07.4
Canopus	263 52.5	S 52 42.2	Rasalhague	95 58.0	N 12 32.7
Sirius	258 25.8	S 16 44.3	Etamin	90 41.7	N 51 29.4
Adhara	255 05.7	S 29 00.1	Kaus Australis	83 31.6	S 34 22.3
Castor	245 56.6	N 31 50.0	Vega	80 32.7	N 38 48.5
Procyon	244 50.3	N 05 10.1	Nunki	75 46.9	S 26 15.9
Pollux	243 16.6	N 27 57.9	Albireo	67 03.4	N 28 01.0
Avior	234 15.1	S 59 35.3	Altair	61 59.4	N 08 56.1
Suhail	222 46.3	S 43 32.0	Peacock	53 04.4	S 56 39.2
Miaplacidus	221 38.9	S 69 49.2	Deneb	49 25.0	N 45 22.5
Alphard	217 47.5	S 08 46.1	Enif	33 38.0	N 09 59.7
Regulus	207 34.1	N 11 50.6	Alnair	27 31.8	S 46 50.0
Dubhe	193 40.8	N 61 36.9	Formalhaut	15 13.7	S 29 29.0
Denebola	182 24.5	N 14 25.9	Markab	13 29.1	N 15 20.7

2025 - First Point of Aries / Selected Stars

UT	day 246 of 365 September 3		day 247 of 365 September 4		day 248 of 365 September 5		day 249 of 365 September 6		day 250 of 365 September 7		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	342	23.1 +02.4	343	22.2 +02.5	344	21.3 +02.5	345	20.5 +02.4	346	19.6 +02.5	00
01	357	25.5 +02.5	358	24.7 +02.4	359	23.8 +02.5	0	22.9 +02.5	1	22.1 +02.4	01
02	12	28.0 +02.4	13	27.1 +02.5	14	26.3 +02.4	15	25.4 +02.5	16	24.5 +02.5	02
03	27	30.4 +02.5	28	29.6 +02.4	29	28.7 +02.5	30	27.9 +02.4	31	27.0 +02.5	03
04	42	32.9 +02.5	43	32.0 +02.5	44	31.2 +02.5	45	30.3 +02.5	46	29.5 +02.4	04
05	57	35.4 +02.4	58	34.5 +02.5	59	33.7 +02.4	60	32.8 +02.5	61	31.9 +02.5	05
06	72	37.8 +02.5	73	37.0 +02.4	74	36.1 +02.5	75	35.3 +02.4	76	34.4 +02.5	06
07	87	40.3 +02.5	88	39.4 +02.5	89	38.6 +02.4	90	37.7 +02.5	91	36.9 +02.4	07
08	102	42.8 +02.4	103	41.9 +02.5	104	41.0 +02.5	105	40.2 +02.4	106	39.3 +02.5	08
09	117	45.2 +02.5	118	44.4 +02.4	119	43.5 +02.5	120	42.6 +02.5	121	41.8 +02.4	09
10	132	47.7 +02.5	133	46.8 +02.5	134	46.0 +02.4	135	45.1 +02.5	136	44.2 +02.5	10
11	147	50.2 +02.4	148	49.3 +02.5	149	48.4 +02.5	150	47.6 +02.4	151	46.7 +02.5	11
12	162	52.6 +02.5	163	51.8 +02.4	164	50.9 +02.5	165	50.0 +02.5	166	49.2 +02.4	12
13	177	55.1 +02.5	178	54.2 +02.5	179	53.4 +02.4	180	52.5 +02.5	181	51.6 +02.5	13
14	192	57.6 +02.4	193	56.7 +02.5	194	55.8 +02.5	195	55.0 +02.4	196	54.1 +02.5	14
15	208	00.0 +02.5	208	59.2 +02.4	209	58.3 +02.5	210	57.4 +02.5	211	56.6 +02.4	15
16	223	02.5 +02.4	224	01.6 +02.5	225	00.8 +02.4	225	59.9 +02.5	226	59.0 +02.5	16
17	238	04.9 +02.5	239	04.1 +02.4	240	03.2 +02.5	241	02.4 +02.4	242	01.5 +02.5	17
18	253	07.4 +02.5	254	06.5 +02.5	255	05.7 +02.4	256	04.8 +02.5	257	04.0 +02.4	18
19	268	09.9 +02.4	269	09.0 +02.5	270	08.1 +02.5	271	07.3 +02.5	272	06.4 +02.5	19
20	283	12.3 +02.5	284	11.5 +02.4	285	10.6 +02.5	286	09.8 +02.4	287	08.9 +02.5	20
21	298	14.8 +02.5	299	13.9 +02.5	300	13.1 +02.4	301	12.2 +02.5	302	11.4 +02.4	21
22	313	17.3 +02.4	314	16.4 +02.5	315	15.5 +02.5	316	14.7 +02.4	317	13.8 +02.5	22
23	328	19.7 +02.5	329	18.9 +02.4	330	18.0 +02.5	331	17.1 +02.5	332	16.3 +02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 33.9	N 29 14.1	Gienah	175 43.3	S 17 41.0
Ankaa	353 06.3	S 42 09.6	Acrux	173 00.1	S 63 14.6
Schedir	349 30.0	N 56 40.7	Gacrux	171 51.6	S 57 15.4
Diphda	348 46.5	S 17 50.6	Alioth	166 13.0	N 55 49.4
Achernar	335 19.4	S 57 06.1	Spica	158 22.0	S 11 17.7
Hamal	327 50.5	N 23 35.1	Alkaid	152 51.8	N 49 11.3
Polaris	313 36.2	N 89 22.1	Hadar	148 35.6	S 60 30.0
Acamar	315 11.1	S 40 11.8	Menkent	147 56.9	S 36 29.6
Menkar	314 05.4	N 04 11.6	Arcturus	145 47.2	N 19 03.9
Mirfak	308 27.3	N 49 57.0	Rigel Kentaurus	139 36.9	S 60 56.9
Aldebaran	290 39.0	N 16 33.8	Zubenelgenubi	136 55.5	S 16 08.9
Capella	280 21.2	N 46 01.5	Kocab	137 20.2	N 74 03.2
Rigel	281 03.4	S 08 10.1	Alphecca	126 03.4	N 26 37.9
Bellatrix	278 22.3	N 06 22.5	Antares	112 15.3	S 26 29.4
Elnath	278 01.3	N 28 37.8	Atria	107 08.9	S 69 04.6
Alnilam	275 37.3	S 01 11.0	Sabik	102 02.1	S 15 45.4
Betelgeuze	270 51.6	N 07 24.8	Shaula	96 09.5	S 37 07.4
Canopus	263 52.4	S 52 42.2	Rasalhague	95 58.0	N 12 32.7
Sirius	258 25.7	S 16 44.3	Etamin	90 41.8	N 51 29.4
Adhara	255 05.6	S 29 00.1	Kaus Australis	83 31.6	S 34 22.3
Castor	245 56.5	N 31 50.0	Vega	80 32.8	N 38 48.5
Procyon	244 50.2	N 05 10.1	Nunki	75 46.9	S 26 15.9
Pollux	243 16.5	N 27 57.9	Albireo	67 03.4	N 28 01.0
Avior	234 15.1	S 59 35.3	Altair	61 59.4	N 08 56.1
Suhail	222 46.3	S 43 32.0	Peacock	53 04.4	S 56 39.2
Miaplacidus	221 38.9	S 69 49.2	Deneb	49 25.1	N 45 22.5
Alphard	217 47.5	S 08 46.1	Enif	33 38.0	N 09 59.7
Regulus	207 34.1	N 11 50.6	Alnair	27 31.8	S 46 50.1
Dubhe	193 40.8	N 61 36.8	Formalhaut	15 13.7	S 29 29.0
Denebola	182 24.5	N 14 25.9	Markab	13 29.1	N 15 20.8

2025 - First Point of Aries / Selected Stars

UT	day 251 of 365		day 252 of 365		day 253 of 365		day 254 of 365		day 255 of 365		UT					
	<i>September 8</i>		<i>September 9</i>		<i>September 10</i>		<i>September 11</i>		<i>September 12</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	347	18.7	+02.5	348	17.9	+02.4	349	17.0	+02.5	350	16.2	+02.4	351	15.3	+02.5	00
01	2	21.2	+02.5	3	20.3	+02.5	4	19.5	+02.4	5	18.6	+02.5	6	17.8	+02.4	01
02	17	23.7	+02.4	18	22.8	+02.5	19	21.9	+02.5	20	21.1	+02.4	21	20.2	+02.5	02
03	32	26.1	+02.5	33	25.3	+02.4	34	24.4	+02.5	35	23.5	+02.5	36	22.7	+02.5	03
04	47	28.6	+02.5	48	27.7	+02.5	49	26.9	+02.4	50	26.0	+02.5	51	25.2	+02.4	04
05	62	31.1	+02.4	63	30.2	+02.5	64	29.3	+02.5	65	28.5	+02.4	66	27.6	+02.5	05
06	77	33.5	+02.5	78	32.7	+02.4	79	31.8	+02.5	80	30.9	+02.5	81	30.1	+02.4	06
07	92	36.0	+02.5	93	35.1	+02.5	94	34.3	+02.4	95	33.4	+02.5	96	32.5	+02.5	07
08	107	38.5	+02.4	108	37.6	+02.5	109	36.7	+02.5	110	35.9	+02.4	111	35.0	+02.5	08
09	122	40.9	+02.5	123	40.1	+02.4	124	39.2	+02.5	125	38.3	+02.5	126	37.5	+02.4	09
10	137	43.4	+02.4	138	42.5	+02.5	139	41.7	+02.4	140	40.8	+02.5	141	39.9	+02.5	10
11	152	45.8	+02.5	153	45.0	+02.4	154	44.1	+02.5	155	43.3	+02.4	156	42.4	+02.5	11
12	167	48.3	+02.5	168	47.4	+02.5	169	46.6	+02.5	170	45.7	+02.5	171	44.9	+02.4	12
13	182	50.8	+02.4	183	49.9	+02.5	184	49.1	+02.4	185	48.2	+02.5	186	47.3	+02.5	13
14	197	53.2	+02.5	198	52.4	+02.4	199	51.5	+02.5	200	50.7	+02.4	201	49.8	+02.5	14
15	212	55.7	+02.5	213	54.8	+02.5	214	54.0	+02.4	215	53.1	+02.5	216	52.3	+02.4	15
16	227	58.2	+02.4	228	57.3	+02.5	229	56.4	+02.5	230	55.6	+02.4	231	54.7	+02.5	16
17	243	00.6	+02.5	243	59.8	+02.4	244	58.9	+02.5	245	58.0	+02.5	246	57.2	+02.4	17
18	258	03.1	+02.5	259	02.2	+02.5	260	01.4	+02.4	261	00.5	+02.5	261	59.6	+02.5	18
19	273	05.6	+02.4	274	04.7	+02.5	275	03.8	+02.5	276	03.0	+02.4	277	02.1	+02.5	19
20	288	08.0	+02.5	289	07.2	+02.4	290	06.3	+02.5	291	05.4	+02.5	292	04.6	+02.4	20
21	303	10.5	+02.5	304	09.6	+02.5	305	08.8	+02.4	306	07.9	+02.5	307	07.0	+02.5	21
22	318	13.0	+02.4	319	12.1	+02.5	320	11.2	+02.5	321	10.4	+02.4	322	09.5	+02.5	22
23	333	15.4	+02.5	334	14.6	+02.4	335	13.7	+02.5	336	12.8	+02.5	337	12.0	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.1	Gienah	175	43.3	S 17	41.0
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Menkar	314	05.4	N 04	11.6	Arcturus	145	47.2	N 19	03.9
Mirfak	308	27.3	N 49	57.0	Rigel Kentaurus	139	36.9	S 60	56.9
Aldebaran	290	39.0	N 16	33.8	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	21.1	N 46	01.5	Kocab	137	20.3	N 74	03.2
Rigel	281	03.4	S 08	10.1	Alphecca	126	03.4	N 26	37.9
Bellatrix	278	22.3	N 06	22.5	Antares	112	15.3	S 26	29.4
Elnath	278	01.2	N 28	37.8	Atria	107	08.9	S 69	04.6
Alnilam	275	37.2	S 01	11.0	Sabik	102	02.1	S 15	45.4
Betelgeuze	270	51.6	N 07	24.8	Shaula	96	09.5	S 37	07.4
Canopus	263	52.4	S 52	42.2	Rasalhague	95	58.0	N 12	32.7
Sirius	258	25.7	S 16	44.3	Etamin	90	41.8	N 51	29.4
Adhara	255	05.6	S 29	00.1	Kaus Australis	83	31.6	S 34	22.4
Castor	245	56.5	N 31	49.9	Vega	80	32.8	N 38	48.5
Procyon	244	50.2	N 05	10.1	Nunki	75	46.9	S 26	15.9
Pollux	243	16.5	N 27	57.9	Albireo	67	03.4	N 28	01.0
Avior	234	15.0	S 59	35.2	Altair	61	59.4	N 08	56.1
Suhail	222	46.3	S 43	32.0	Peacock	53	04.4	S 56	39.2
Miaplacidus	221	38.9	S 69	49.2	Deneb	49	25.1	N 45	22.5
Alphard	217	47.5	S 08	46.1	Enif	33	38.0	N 09	59.7
Regulus	207	34.0	N 11	50.6	Alnair	27	31.8	S 46	50.1
Dubhe	193	40.8	N 61	36.8	Formalhaut	15	13.7	S 29	29.0
Denebola	182	24.5	N 14	25.9	Markab	13	29.0	N 15	20.8

2025 - First Point of Aries / Selected Stars

UT	day 256 of 365			day 257 of 365			day 258 of 365			day 259 of 365			day 260 of 365			UT		
	September 13			September 14			September 15			September 16			September 17					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	352	14.4	+02.5	353	13.6	+02.4	354	12.7	+02.5	355	11.9	+02.4	356	11.0	+02.5	00		
01	7	16.9	+02.5	8	16.0	+02.5	9	15.2	+02.4	10	14.3	+02.5	11	13.5	+02.4	01		
02	22	19.4	+02.4	23	18.5	+02.5	24	17.6	+02.5	25	16.8	+02.4	26	15.9	+02.5	02		
03	37	21.8	+02.5	38	21.0	+02.4	39	20.1	+02.5	40	19.2	+02.5	41	18.4	+02.5	03		
04	52	24.3	+02.5	53	23.4	+02.5	54	22.6	+02.4	55	21.7	+02.5	56	20.9	+02.4	04		
05	67	26.8	+02.4	68	25.9	+02.5	69	25.0	+02.5	70	24.2	+02.4	71	23.3	+02.5	05		
06	82	29.2	+02.5	83	28.4	+02.4	84	27.5	+02.5	85	26.6	+02.5	86	25.8	+02.4	06		
07	97	31.7	+02.4	98	30.8	+02.5	99	30.0	+02.4	100	29.1	+02.5	101	28.2	+02.5	07		
08	112	34.1	+02.5	113	33.3	+02.5	114	32.4	+02.5	115	31.6	+02.4	116	30.7	+02.5	08		
09	127	36.6	+02.5	128	35.8	+02.4	129	34.9	+02.5	130	34.0	+02.5	131	33.2	+02.4	09		
10	142	39.1	+02.4	143	38.2	+02.5	144	37.4	+02.4	145	36.5	+02.5	146	35.6	+02.5	10		
11	157	41.5	+02.5	158	40.7	+02.4	159	39.8	+02.5	160	39.0	+02.4	161	38.1	+02.5	11		
12	172	44.0	+02.5	173	43.1	+02.5	174	42.3	+02.4	175	41.4	+02.5	176	40.6	+02.4	12		
13	187	46.5	+02.4	188	45.6	+02.5	189	44.7	+02.5	190	43.9	+02.5	191	43.0	+02.5	13		
14	202	48.9	+02.5	203	48.1	+02.4	204	47.2	+02.5	205	46.4	+02.4	206	45.5	+02.5	14		
15	217	51.4	+02.5	218	50.5	+02.5	219	49.7	+02.4	220	48.8	+02.5	221	48.0	+02.4	15		
16	232	53.9	+02.4	233	53.0	+02.5	234	52.1	+02.5	235	51.3	+02.4	236	50.4	+02.5	16		
17	247	56.3	+02.5	248	55.5	+02.4	249	54.6	+02.5	250	53.7	+02.5	251	52.9	+02.4	17		
18	262	58.8	+02.5	263	57.9	+02.5	264	57.1	+02.4	265	56.2	+02.5	266	55.3	+02.5	18		
19	278	01.3	+02.4	279	00.4	+02.5	279	59.5	+02.5	280	58.7	+02.4	281	57.8	+02.5	19		
20	293	03.7	+02.5	294	02.9	+02.4	295	02.0	+02.5	296	01.1	+02.5	297	00.3	+02.4	20		
21	308	06.2	+02.4	309	05.3	+02.5	310	04.5	+02.4	311	03.6	+02.5	312	02.7	+02.5	21		
22	323	08.6	+02.5	324	07.8	+02.5	325	06.9	+02.5	326	06.1	+02.4	327	05.2	+02.5	22		
23	338	11.1	+02.5	339	10.3	+02.4	340	09.4	+02.5	341	08.5	+02.5	342	07.7	+02.4	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.1	Gienah	175	43.3	S 17	41.0
Ankaa	353	06.3	S 42	09.6	Acrux	173	00.2	S 63	14.5
Schedir	349	29.9	N 56	40.7	Gacrux	171	51.7	S 57	15.4
Diphda	348	46.5	S 17	50.6	Alioth	166	13.1	N 55	49.4
Achernar	335	19.3	S 57	06.1	Spica	158	22.0	S 11	17.6
Hamal	327	50.4	N 23	35.2	Alkaid	152	51.9	N 49	11.3
Polaris	313	31.4	N 89	22.1	Hadar	148	35.7	S 60	29.9
Acamar	315	11.1	S 40	11.8	Menkent	147	56.9	S 36	29.5
Menkar	314	05.4	N 04	11.6	Arcturus	145	47.2	N 19	03.9
Mirfak	308	27.2	N 49	57.0	Rigel Kentaurus	139	37.0	S 60	56.9
Aldebaran	290	38.9	N 16	33.8	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	21.1	N 46	01.5	Kocab	137	20.4	N 74	03.2
Rigel	281	03.3	S 08	10.1	Alphecca	126	03.5	N 26	37.9
Bellatrix	278	22.3	N 06	22.5	Antares	112	15.3	S 26	29.4
Elnath	278	01.2	N 28	37.8	Atria	107	09.0	S 69	04.6
Alnilam	275	37.2	S 01	11.0	Sabik	102	02.2	S 15	45.4
Betelgeuze	270	51.5	N 07	24.8	Shaula	96	09.6	S 37	07.4
Canopus	263	52.3	S 52	42.2	Rasalhague	95	58.0	N 12	32.7
Sirius	258	25.7	S 16	44.3	Etamin	90	41.8	N 51	29.4
Adhara	255	05.6	S 29	00.1	Kaus Australis	83	31.6	S 34	22.4
Castor	245	56.5	N 31	49.9	Vega	80	32.8	N 38	48.6
Procyon	244	50.2	N 05	10.1	Nunki	75	46.9	S 26	15.9
Pollux	243	16.5	N 27	57.9	Albireo	67	03.4	N 28	01.0
Avior	234	15.0	S 59	35.2	Altair	61	59.4	N 08	56.2
Suhail	222	46.3	S 43	31.9	Peacock	53	04.4	S 56	39.2
Miaplacidus	221	38.8	S 69	49.2	Deneb	49	25.1	N 45	22.5
Alphard	217	47.5	S 08	46.1	Enif	33	38.0	N 09	59.7
Regulus	207	34.0	N 11	50.6	Alnair	27	31.8	S 46	50.1
Dubhe	193	40.8	N 61	36.8	Formalhaut	15	13.7	S 29	29.0
Denebola	182	24.5	N 14	25.9	Markab	13	29.0	N 15	20.8

2025 - First Point of Aries / Selected Stars

UT	day 261 of 365		day 262 of 365		day 263 of 365		day 264 of 365		day 265 of 365		UT					
	September 18		September 19		September 20		September 21		September 22							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	357	10.1	+02.5	358	09.3	+02.4	359	08.4	+02.5	0	07.5	+02.5	1	06.7	+02.4	00
01	12	12.6	+02.5	13	11.7	+02.5	14	10.9	+02.4	15	10.0	+02.5	16	09.1	+02.5	01
02	27	15.1	+02.4	28	14.2	+02.5	29	13.3	+02.5	30	12.5	+02.4	31	11.6	+02.5	02
03	42	17.5	+02.5	43	16.7	+02.4	44	15.8	+02.5	45	14.9	+02.5	46	14.1	+02.4	03
04	57	20.0	+02.5	58	19.1	+02.5	59	18.3	+02.4	60	17.4	+02.5	61	16.5	+02.5	04
05	72	22.5	+02.4	73	21.6	+02.5	74	20.7	+02.5	75	19.9	+02.4	76	19.0	+02.5	05
06	87	24.9	+02.5	88	24.1	+02.4	89	23.2	+02.5	90	22.3	+02.5	91	21.5	+02.4	06
07	102	27.4	+02.4	103	26.5	+02.5	104	25.7	+02.4	105	24.8	+02.5	106	23.9	+02.5	07
08	117	29.8	+02.5	118	29.0	+02.4	119	28.1	+02.5	120	27.3	+02.4	121	26.4	+02.5	08
09	132	32.3	+02.5	133	31.4	+02.5	134	30.6	+02.4	135	29.7	+02.5	136	28.9	+02.4	09
10	147	34.8	+02.4	148	33.9	+02.5	149	33.0	+02.5	150	32.2	+02.5	151	31.3	+02.5	10
11	162	37.2	+02.5	163	36.4	+02.4	164	35.5	+02.5	165	34.7	+02.4	166	33.8	+02.5	11
12	177	39.7	+02.5	178	38.8	+02.5	179	38.0	+02.4	180	37.1	+02.5	181	36.3	+02.4	12
13	192	42.2	+02.4	193	41.3	+02.5	194	40.4	+02.5	195	39.6	+02.4	196	38.7	+02.5	13
14	207	44.6	+02.5	208	43.8	+02.4	209	42.9	+02.5	210	42.0	+02.5	211	41.2	+02.4	14
15	222	47.1	+02.5	223	46.2	+02.5	224	45.4	+02.4	225	44.5	+02.5	226	43.6	+02.5	15
16	237	49.6	+02.4	238	48.7	+02.5	239	47.8	+02.5	240	47.0	+02.4	241	46.1	+02.5	16
17	252	52.0	+02.5	253	51.2	+02.4	254	50.3	+02.5	255	49.4	+02.5	256	48.6	+02.4	17
18	267	54.5	+02.5	268	53.6	+02.5	269	52.8	+02.4	270	51.9	+02.5	271	51.0	+02.5	18
19	282	57.0	+02.4	283	56.1	+02.5	284	55.2	+02.5	285	54.4	+02.4	286	53.5	+02.5	19
20	297	59.4	+02.5	298	58.6	+02.4	299	57.7	+02.5	300	56.8	+02.5	301	56.0	+02.4	20
21	313	01.9	+02.4	314	01.0	+02.5	315	00.2	+02.4	315	59.3	+02.5	316	58.4	+02.5	21
22	328	04.3	+02.5	329	03.5	+02.4	330	02.6	+02.5	331	01.8	+02.4	332	00.9	+02.5	22
23	343	06.8	+02.5	344	05.9	+02.5	345	05.1	+02.4	346	04.2	+02.5	347	03.4	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 33.9	N 29 14.1	Gienah	175 43.3	S 17 41.0
Ankaa	353 06.3	S 42 09.6	Acrux	173 00.2	S 63 14.5
Schedir	349 29.9	N 56 40.8	Gacrux	171 51.6	S 57 15.3
Diphda	348 46.5	S 17 50.6	Alioth	166 13.1	N 55 49.3
Achernar	335 19.3	S 57 06.1	Spica	158 22.0	S 11 17.6
Hamal	327 50.4	N 23 35.2	Alkaid	152 51.9	N 49 11.3
Polaris	313 28.9	N 89 22.1	Hadar	148 35.7	S 60 29.9
Acamar	315 11.0	S 40 11.8	Menkent	147 56.9	S 36 29.5
Menkar	314 05.3	N 04 11.6	Arcturus	145 47.2	N 19 03.9
Mirfak	308 27.2	N 49 57.1	Rigel Kentaurus	139 37.0	S 60 56.8
Aldebaran	290 38.9	N 16 33.8	Zubenelgenubi	136 55.5	S 16 08.8
Capella	280 21.0	N 46 01.5	Kocab	137 20.5	N 74 03.1
Rigel	281 03.3	S 08 10.1	Alphecca	126 03.5	N 26 37.9
Bellatrix	278 22.2	N 06 22.5	Antares	112 15.3	S 26 29.4
Elnath	278 01.1	N 28 37.8	Atria	107 09.1	S 69 04.6
Alnilam	275 37.1	S 01 10.9	Sabik	102 02.2	S 15 45.4
Betelgeuze	270 51.5	N 07 24.8	Shaula	96 09.6	S 37 07.4
Canopus	263 52.3	S 52 42.2	Rasalhague	95 58.1	N 12 32.7
Sirius	258 25.6	S 16 44.3	Etamin	90 41.9	N 51 29.4
Adhara	255 05.5	S 29 00.1	Kaus Australis	83 31.7	S 34 22.4
Castor	245 56.4	N 31 49.9	Vega	80 32.8	N 38 48.6
Procyon	244 50.1	N 05 10.1	Nunki	75 46.9	S 26 15.9
Pollux	243 16.4	N 27 57.9	Albireo	67 03.4	N 28 01.0
Avior	234 14.9	S 59 35.2	Altair	61 59.4	N 08 56.2
Suhail	222 46.2	S 43 31.9	Peacock	53 04.4	S 56 39.2
Miaplacidus	221 38.8	S 69 49.1	Deneb	49 25.1	N 45 22.5
Alphard	217 47.5	S 08 46.1	Enif	33 38.0	N 09 59.7
Regulus	207 34.0	N 11 50.6	Alnair	27 31.8	S 46 50.1
Dubhe	193 40.8	N 61 36.7	Formalhaut	15 13.7	S 29 29.0
Denebola	182 24.5	N 14 25.9	Markab	13 29.0	N 15 20.8

2025 - First Point of Aries / Selected Stars

UT	day 266 of 365 September 23		day 267 of 365 September 24		day 268 of 365 September 25		day 269 of 365 September 26		day 270 of 365 September 27		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	
00	2	05.8 +02.5	3	05.0 +02.4	4	04.1 +02.5	5	03.2 +02.5	6	02.4 +02.4	00
01	17	08.3 +02.4	18	07.4 +02.5	19	06.6 +02.4	20	05.7 +02.5	21	04.8 +02.5	01
02	32	10.7 +02.5	33	09.9 +02.4	34	09.0 +02.5	35	08.2 +02.4	36	07.3 +02.5	02
03	47	13.2 +02.5	48	12.3 +02.5	49	11.5 +02.5	50	10.6 +02.5	51	09.8 +02.4	03
04	62	15.7 +02.4	63	14.8 +02.5	64	14.0 +02.4	65	13.1 +02.5	66	12.2 +02.5	04
05	77	18.1 +02.5	78	17.3 +02.4	79	16.4 +02.5	80	15.6 +02.4	81	14.7 +02.5	05
06	92	20.6 +02.5	93	19.7 +02.5	94	18.9 +02.4	95	18.0 +02.5	96	17.2 +02.4	06
07	107	23.1 +02.4	108	22.2 +02.5	109	21.3 +02.5	110	20.5 +02.4	111	19.6 +02.5	07
08	122	25.5 +02.5	123	24.7 +02.4	124	23.8 +02.5	125	22.9 +02.5	126	22.1 +02.4	08
09	137	28.0 +02.5	138	27.1 +02.5	139	26.3 +02.4	140	25.4 +02.5	141	24.5 +02.5	09
10	152	30.5 +02.4	153	29.6 +02.5	154	28.7 +02.5	155	27.9 +02.4	156	27.0 +02.5	10
11	167	32.9 +02.5	168	32.1 +02.4	169	31.2 +02.5	170	30.3 +02.5	171	29.5 +02.4	11
12	182	35.4 +02.5	183	34.5 +02.5	184	33.7 +02.4	185	32.8 +02.5	186	31.9 +02.5	12
13	197	37.9 +02.4	198	37.0 +02.5	199	36.1 +02.5	200	35.3 +02.4	201	34.4 +02.5	13
14	212	40.3 +02.5	213	39.5 +02.4	214	38.6 +02.5	215	37.7 +02.5	216	36.9 +02.4	14
15	227	42.8 +02.4	228	41.9 +02.5	229	41.1 +02.4	230	40.2 +02.5	231	39.3 +02.5	15
16	242	45.2 +02.5	243	44.4 +02.4	244	43.5 +02.5	245	42.7 +02.4	246	41.8 +02.5	16
17	257	47.7 +02.5	258	46.8 +02.5	259	46.0 +02.4	260	45.1 +02.5	261	44.3 +02.4	17
18	272	50.2 +02.4	273	49.3 +02.5	274	48.4 +02.5	275	47.6 +02.4	276	46.7 +02.5	18
19	287	52.6 +02.5	288	51.8 +02.4	289	50.9 +02.5	290	50.0 +02.5	291	49.2 +02.5	19
20	302	55.1 +02.5	303	54.2 +02.5	304	53.4 +02.4	305	52.5 +02.5	306	51.7 +02.4	20
21	317	57.6 +02.4	318	56.7 +02.5	319	55.8 +02.5	320	55.0 +02.4	321	54.1 +02.5	21
22	333	00.0 +02.5	333	59.2 +02.4	334	58.3 +02.5	335	57.4 +02.5	336	56.6 +02.4	22
23	348	02.5 +02.5	349	01.6 +02.5	350	00.8 +02.4	350	59.9 +02.5	351	59.0 +02.5	23

	SHA		Dec			SHA		Dec	
	° ' "	' "	° ' "	' "		° ' "	' "	° ' "	' "
Alpheratz	357	33.9	N 29	14.2	Gienah	175	43.3	S 17	41.0
Ankaa	353	06.2	S 42	09.7	Acrux	173	00.2	S 63	14.5
Schedir	349	29.9	N 56	40.8	Gacrux	171	51.7	S 57	15.3
Diphda	348	46.5	S 17	50.6	Alioth	166	13.1	N 55	49.3
Achernar	335	19.2	S 57	06.1	Spica	158	22.0	S 11	17.6
Hamal	327	50.3	N 23	35.2	Alkaid	152	51.9	N 49	11.2
Polaris	313	26.9	N 89	22.1	Hadar	148	35.7	S 60	29.9
Acamar	315	11.0	S 40	11.8	Menkent	147	57.0	S 36	29.5
Menkar	314	05.3	N 04	11.6	Arcturus	145	47.2	N 19	03.9
Mirfak	308	27.1	N 49	57.1	Rigel Kentaurus	139	37.0	S 60	56.8
Aldebaran	290	38.9	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	21.0	N 46	01.5	Kocab	137	20.5	N 74	03.1
Rigel	281	03.2	S 08	10.1	Alphecca	126	03.5	N 26	37.9
Bellatrix	278	22.2	N 06	22.5	Antares	112	15.4	S 26	29.4
Elnath	278	01.1	N 28	37.8	Atria	107	09.1	S 69	04.6
Alnilam	275	37.1	S 01	10.9	Sabik	102	02.2	S 15	45.4
Betelgeuze	270	51.5	N 07	24.8	Shaula	96	09.6	S 37	07.4
Canopus	263	52.2	S 52	42.2	Rasalhague	95	58.1	N 12	32.7
Sirius	258	25.6	S 16	44.3	Etamin	90	41.9	N 51	29.4
Adhara	255	05.5	S 29	00.1	Kaus Australis	83	31.7	S 34	22.4
Castor	245	56.4	N 31	49.9	Vega	80	32.9	N 38	48.6
Procyon	244	50.1	N 05	10.1	Nunki	75	47.0	S 26	15.9
Pollux	243	16.4	N 27	57.9	Albireo	67	03.5	N 28	01.0
Avior	234	14.9	S 59	35.2	Altair	61	59.5	N 08	56.2
Suhail	222	46.2	S 43	31.9	Peacock	53	04.5	S 56	39.2
Miaplacidus	221	38.7	S 69	49.1	Deneb	49	25.1	N 45	22.6
Alphard	217	47.4	S 08	46.0	Enif	33	38.0	N 09	59.7
Regulus	207	34.0	N 11	50.6	Alnair	27	31.8	S 46	50.1
Dubhe	193	40.8	N 61	36.7	Formalhaut	15	13.7	S 29	29.0
Denebola	182	24.5	N 14	25.8	Markab	13	29.0	N 15	20.8

2025 - First Point of Aries / Selected Stars

UT	day 271 of 365 September 28		day 272 of 365 September 29		day 273 of 365 September 30		day 274 of 365 October 1		day 275 of 365 October 2		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	7 01.5	+02.5	8 00.6	+02.5	8 59.8	+02.5	9 58.9	+02.5	10 58.1	+02.4	00
01	22 04.0	+02.4	23 03.1	+02.5	24 02.3	+02.4	25 01.4	+02.5	26 00.5	+02.5	01
02	37 06.4	+02.5	38 05.6	+02.4	39 04.7	+02.5	40 03.9	+02.4	41 03.0	+02.5	02
03	52 08.9	+02.5	53 08.0	+02.5	54 07.2	+02.4	55 06.3	+02.5	56 05.5	+02.4	03
04	67 11.4	+02.4	68 10.5	+02.5	69 09.6	+02.5	70 08.8	+02.4	71 07.9	+02.5	04
05	82 13.8	+02.5	83 13.0	+02.4	84 12.1	+02.5	85 11.2	+02.5	86 10.4	+02.5	05
06	97 16.3	+02.5	98 15.4	+02.5	99 14.6	+02.4	100 13.7	+02.5	101 12.9	+02.4	06
07	112 18.8	+02.4	113 17.9	+02.5	114 17.0	+02.5	115 16.2	+02.4	116 15.3	+02.5	07
08	127 21.2	+02.5	128 20.4	+02.4	129 19.5	+02.5	130 18.6	+02.5	131 17.8	+02.4	08
09	142 23.7	+02.5	143 22.8	+02.5	144 22.0	+02.4	145 21.1	+02.5	146 20.2	+02.5	09
10	157 26.2	+02.4	158 25.3	+02.5	159 24.4	+02.5	160 23.6	+02.4	161 22.7	+02.5	10
11	172 28.6	+02.5	173 27.8	+02.4	174 26.9	+02.5	175 26.0	+02.5	176 25.2	+02.4	11
12	187 31.1	+02.4	188 30.2	+02.5	189 29.4	+02.4	190 28.5	+02.5	191 27.6	+02.5	12
13	202 33.5	+02.5	203 32.7	+02.4	204 31.8	+02.5	205 31.0	+02.4	206 30.1	+02.5	13
14	217 36.0	+02.5	218 35.1	+02.5	219 34.3	+02.5	220 33.4	+02.5	221 32.6	+02.4	14
15	232 38.5	+02.4	233 37.6	+02.5	234 36.8	+02.4	235 35.9	+02.5	236 35.0	+02.5	15
16	247 40.9	+02.5	248 40.1	+02.4	249 39.2	+02.5	250 38.4	+02.4	251 37.5	+02.5	16
17	262 43.4	+02.5	263 42.5	+02.5	264 41.7	+02.4	265 40.8	+02.5	266 40.0	+02.4	17
18	277 45.9	+02.4	278 45.0	+02.5	279 44.1	+02.5	280 43.3	+02.4	281 42.4	+02.5	18
19	292 48.3	+02.5	293 47.5	+02.4	294 46.6	+02.5	295 45.7	+02.5	296 44.9	+02.5	19
20	307 50.8	+02.5	308 49.9	+02.5	309 49.1	+02.4	310 48.2	+02.5	311 47.4	+02.4	20
21	322 53.3	+02.4	323 52.4	+02.5	324 51.5	+02.5	325 50.7	+02.4	326 49.8	+02.5	21
22	337 55.7	+02.5	338 54.9	+02.4	339 54.0	+02.5	340 53.1	+02.5	341 52.3	+02.4	22
23	352 58.2	+02.4	353 57.3	+02.5	354 56.5	+02.4	355 55.6	+02.5	356 54.7	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 33.9	N 29 14.2	Gienah	175 43.3	S 17 41.0
Ankaa	353 06.2	S 42 09.7	Acrux	173 00.2	S 63 14.5
Schedir	349 29.9	N 56 40.8	Gacrux	171 51.7	S 57 15.3
Diphda	348 46.5	S 17 50.6	Alioth	166 13.1	N 55 49.3
Achernar	335 19.2	S 57 06.1	Spica	158 22.0	S 11 17.6
Hamal	327 50.3	N 23 35.2	Alkaid	152 51.9	N 49 11.2
Polaris	313 24.7	N 89 22.2	Hadar	148 35.8	S 60 29.9
Acamar	315 11.0	S 40 11.8	Menkent	147 57.0	S 36 29.5
Menkar	314 05.3	N 04 11.6	Arcturus	145 47.2	N 19 03.9
Mirfak	308 27.1	N 49 57.1	Rigel Kentaurus	139 37.1	S 60 56.8
Aldebaran	290 38.8	N 16 33.8	Zubenelgenubi	136 55.6	S 16 08.8
Capella	280 20.9	N 46 01.5	Kocab	137 20.6	N 74 03.1
Rigel	281 03.2	S 08 10.1	Alphecca	126 03.5	N 26 37.9
Bellatrix	278 22.2	N 06 22.5	Antares	112 15.4	S 26 29.4
Elnath	278 01.1	N 28 37.8	Atria	107 09.2	S 69 04.6
Alnilam	275 37.1	S 01 11.0	Sabik	102 02.2	S 15 45.4
Betelgeuze	270 51.4	N 07 24.8	Shaula	96 09.7	S 37 07.4
Canopus	263 52.2	S 52 42.2	Rasalhague	95 58.1	N 12 32.7
Sirius	258 25.5	S 16 44.3	Etamin	90 42.0	N 51 29.4
Adhara	255 05.5	S 29 00.1	Kaus Australis	83 31.7	S 34 22.4
Castor	245 56.3	N 31 49.9	Vega	80 32.9	N 38 48.6
Procyon	244 50.1	N 05 10.1	Nunki	75 47.0	S 26 15.9
Pollux	243 16.3	N 27 57.9	Albireo	67 03.5	N 28 01.0
Avior	234 14.8	S 59 35.2	Altair	61 59.5	N 08 56.2
Suhail	222 46.2	S 43 31.9	Peacock	53 04.5	S 56 39.2
Miaplacidus	221 38.6	S 69 49.1	Deneb	49 25.2	N 45 22.6
Alphard	217 47.4	S 08 46.1	Enif	33 38.0	N 09 59.7
Regulus	207 34.0	N 11 50.6	Alnair	27 31.8	S 46 50.1
Dubhe	193 40.7	N 61 36.7	Formalhaut	15 13.7	S 29 29.0
Denebola	182 24.5	N 14 25.8	Markab	13 29.0	N 15 20.8

2025 - First Point of Aries / Selected Stars

UT	day 276 of 365		day 277 of 365		day 278 of 365		day 279 of 365		day 280 of 365		UT					
	October 3		October 4		October 5		October 6		October 7							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	11	57.2	+02.5	12	56.3	+02.5	13	55.5	+02.4	14	54.6	+02.5	15	53.8	+02.4	00
01	26	59.7	+02.4	27	58.8	+02.5	28	57.9	+02.5	29	57.1	+02.4	30	56.2	+02.5	01
02	42	02.1	+02.5	43	01.3	+02.4	44	00.4	+02.5	44	59.5	+02.5	45	58.7	+02.4	02
03	57	04.6	+02.5	58	03.7	+02.5	59	02.9	+02.4	60	02.0	+02.5	61	01.1	+02.5	03
04	72	07.1	+02.4	73	06.2	+02.5	74	05.3	+02.5	75	04.5	+02.4	76	03.6	+02.5	04
05	87	09.5	+02.5	88	08.7	+02.4	89	07.8	+02.5	90	06.9	+02.5	91	06.1	+02.4	05
06	102	12.0	+02.5	103	11.1	+02.5	104	10.3	+02.4	105	09.4	+02.5	106	08.5	+02.5	06
07	117	14.5	+02.4	118	13.6	+02.5	119	12.7	+02.5	120	11.9	+02.4	121	11.0	+02.5	07
08	132	16.9	+02.5	133	16.1	+02.4	134	15.2	+02.5	135	14.3	+02.5	136	13.5	+02.4	08
09	147	19.4	+02.4	148	18.5	+02.5	149	17.7	+02.4	150	16.8	+02.5	151	15.9	+02.5	09
10	162	21.8	+02.5	163	21.0	+02.4	164	20.1	+02.5	165	19.3	+02.4	166	18.4	+02.5	10
11	177	24.3	+02.5	178	23.4	+02.5	179	22.6	+02.5	180	21.7	+02.5	181	20.9	+02.4	11
12	192	26.8	+02.4	193	25.9	+02.5	194	25.1	+02.4	195	24.2	+02.5	196	23.3	+02.5	12
13	207	29.2	+02.5	208	28.4	+02.4	209	27.5	+02.5	210	26.7	+02.4	211	25.8	+02.5	13
14	222	31.7	+02.5	223	30.8	+02.5	224	30.0	+02.4	225	29.1	+02.5	226	28.3	+02.4	14
15	237	34.2	+02.4	238	33.3	+02.5	239	32.4	+02.5	240	31.6	+02.4	241	30.7	+02.5	15
16	252	36.6	+02.5	253	35.8	+02.4	254	34.9	+02.5	255	34.0	+02.5	256	33.2	+02.4	16
17	267	39.1	+02.5	268	38.2	+02.5	269	37.4	+02.4	270	36.5	+02.5	271	35.6	+02.5	17
18	282	41.6	+02.4	283	40.7	+02.5	284	39.8	+02.5	285	39.0	+02.4	286	38.1	+02.5	18
19	297	44.0	+02.5	298	43.2	+02.4	299	42.3	+02.5	300	41.4	+02.5	301	40.6	+02.4	19
20	312	46.5	+02.5	313	45.6	+02.5	314	44.8	+02.4	315	43.9	+02.5	316	43.0	+02.5	20
21	327	49.0	+02.4	328	48.1	+02.5	329	47.2	+02.5	330	46.4	+02.4	331	45.5	+02.5	21
22	342	51.4	+02.5	343	50.6	+02.4	344	49.7	+02.5	345	48.8	+02.5	346	48.0	+02.4	22
23	357	53.9	+02.4	358	53.0	+02.5	359	52.2	+02.4	0	51.3	+02.5	1	50.4	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.2	Gienah	175	43.2	S 17	41.0
Ankaa	353	06.2	S 42	09.7	Acrux	173	00.2	S 63	14.4
Schedir	349	29.9	N 56	40.8	Gacrux	171	51.6	S 57	15.3
Diphda	348	46.4	S 17	50.6	Alioth	166	13.1	N 55	49.3
Achernar	335	19.2	S 57	06.2	Spica	158	22.0	S 11	17.6
Hamal	327	50.3	N 23	35.2	Alkaid	152	51.9	N 49	11.2
Polaris	313	22.7	N 89	22.2	Hadar	148	35.8	S 60	29.9
Acamar	315	10.9	S 40	11.8	Menkent	147	57.0	S 36	29.5
Menkar	314	05.3	N 04	11.6	Arcturus	145	47.2	N 19	03.9
Mirfak	308	27.0	N 49	57.1	Rigel Kentaurus	139	37.1	S 60	56.8
Aldebaran	290	38.8	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.9	N 46	01.5	Kocab	137	20.7	N 74	03.1
Rigel	281	03.2	S 08	10.1	Alphecca	126	03.5	N 26	37.9
Bellatrix	278	22.1	N 06	22.5	Antares	112	15.4	S 26	29.4
Elnath	278	01.0	N 28	37.8	Atria	107	09.2	S 69	04.6
Alnilam	275	37.0	S 01	11.0	Sabik	102	02.2	S 15	45.4
Betelgeuze	270	51.4	N 07	24.8	Shaula	96	09.7	S 37	07.4
Canopus	263	52.1	S 52	42.2	Rasalhague	95	58.1	N 12	32.7
Sirius	258	25.5	S 16	44.3	Etamin	90	42.0	N 51	29.4
Adhara	255	05.4	S 29	00.1	Kaus Australis	83	31.7	S 34	22.4
Castor	245	56.3	N 31	49.9	Vega	80	32.9	N 38	48.6
Procyon	244	50.0	N 05	10.1	Nunki	75	47.0	S 26	15.9
Pollux	243	16.3	N 27	57.8	Albireo	67	03.5	N 28	01.0
Avior	234	14.8	S 59	35.2	Altair	61	59.5	N 08	56.2
Suhail	222	46.1	S 43	31.9	Peacock	53	04.5	S 56	39.2
Miaplacidus	221	38.6	S 69	49.1	Deneb	49	25.2	N 45	22.6
Alphard	217	47.4	S 08	46.1	Enif	33	38.0	N 09	59.8
Regulus	207	33.9	N 11	50.6	Alnair	27	31.8	S 46	50.2
Dubhe	193	40.7	N 61	36.7	Formalhaut	15	13.7	S 29	29.0
Denebola	182	24.5	N 14	25.8	Markab	13	29.0	N 15	20.8

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UT	day 281 of 365		day 282 of 365		day 283 of 365		day 284 of 365		day 285 of 365		UT
	<i>October 8</i>		<i>October 9</i>		<i>October 10</i>		<i>October 11</i>		<i>October 12</i>		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	16 52.9	+02.5	17 52.0	+02.5	18 51.2	+02.4	19 50.3	+02.5	20 49.5	+02.4	00
01	31 55.4	+02.4	32 54.5	+02.5	33 53.6	+02.5	34 52.8	+02.4	35 51.9	+02.5	01
02	46 57.8	+02.5	47 57.0	+02.4	48 56.1	+02.5	49 55.2	+02.5	50 54.4	+02.4	02
03	62 00.3	+02.4	62 59.4	+02.5	63 58.6	+02.4	64 57.7	+02.5	65 56.8	+02.5	03
04	77 02.7	+02.5	78 01.9	+02.5	79 01.0	+02.5	80 00.2	+02.4	80 59.3	+02.5	04
05	92 05.2	+02.5	93 04.4	+02.4	94 03.5	+02.5	95 02.6	+02.5	96 01.8	+02.4	05
06	107 07.7	+02.4	108 06.8	+02.5	109 06.0	+02.4	110 05.1	+02.5	111 04.2	+02.5	06
07	122 10.1	+02.5	123 09.3	+02.4	124 08.4	+02.5	125 07.6	+02.4	126 06.7	+02.5	07
08	137 12.6	+02.5	138 11.7	+02.5	139 10.9	+02.4	140 10.0	+02.5	141 09.2	+02.4	08
09	152 15.1	+02.4	153 14.2	+02.5	154 13.3	+02.5	155 12.5	+02.5	156 11.6	+02.5	09
10	167 17.5	+02.5	168 16.7	+02.4	169 15.8	+02.5	170 15.0	+02.4	171 14.1	+02.5	10
11	182 20.0	+02.5	183 19.1	+02.5	184 18.3	+02.4	185 17.4	+02.5	186 16.6	+02.4	11
12	197 22.5	+02.4	198 21.6	+02.5	199 20.7	+02.5	200 19.9	+02.4	201 19.0	+02.5	12
13	212 24.9	+02.5	213 24.1	+02.4	214 23.2	+02.5	215 22.3	+02.5	216 21.5	+02.5	13
14	227 27.4	+02.5	228 26.5	+02.5	229 25.7	+02.4	230 24.8	+02.5	231 24.0	+02.4	14
15	242 29.9	+02.4	243 29.0	+02.5	244 28.1	+02.5	245 27.3	+02.4	246 26.4	+02.5	15
16	257 32.3	+02.5	258 31.5	+02.4	259 30.6	+02.5	260 29.7	+02.5	261 28.9	+02.4	16
17	272 34.8	+02.4	273 33.9	+02.5	274 33.1	+02.4	275 32.2	+02.5	276 31.3	+02.5	17
18	287 37.2	+02.5	288 36.4	+02.4	289 35.5	+02.5	290 34.7	+02.4	291 33.8	+02.5	18
19	302 39.7	+02.5	303 38.8	+02.5	304 38.0	+02.5	305 37.1	+02.5	306 36.3	+02.4	19
20	317 42.2	+02.4	318 41.3	+02.5	319 40.5	+02.4	320 39.6	+02.5	321 38.7	+02.5	20
21	332 44.6	+02.5	333 43.8	+02.4	334 42.9	+02.5	335 42.1	+02.4	336 41.2	+02.5	21
22	347 47.1	+02.5	348 46.2	+02.5	349 45.4	+02.4	350 44.5	+02.5	351 43.7	+02.4	22
23	2 49.6	+02.4	3 48.7	+02.5	4 47.8	+02.5	5 47.0	+02.5	6 46.1	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 33.9	N 29 14.2	Gienah	175 43.2	S 17 41.0
Ankaa	353 06.2	S 42 09.7	Acrux	173 00.1	S 63 14.4
Schedir	349 29.9	N 56 40.9	Gacrux	171 51.6	S 57 15.3
Diphda	348 46.4	S 17 50.6	Alioth	166 13.1	N 55 49.2
Achernar	335 19.2	S 57 06.2	Spica	158 22.0	S 11 17.6
Hamal	327 50.3	N 23 35.2	Alkaid	152 51.9	N 49 11.2
Polaris	313 21.1	N 89 22.2	Hadar	148 35.8	S 60 29.8
Acamar	315 10.9	S 40 11.8	Menkent	147 57.0	S 36 29.5
Menkar	314 05.2	N 04 11.6	Arcturus	145 47.2	N 19 03.8
Mirfak	308 27.0	N 49 57.1	Rigel Kentaurus	139 37.1	S 60 56.8
Aldebaran	290 38.8	N 16 33.8	Zubenelgenubi	136 55.6	S 16 08.8
Capella	280 20.8	N 46 01.5	Kocab	137 20.7	N 74 03.1
Rigel	281 03.1	S 08 10.1	Alphecca	126 03.6	N 26 37.9
Bellatrix	278 22.1	N 06 22.5	Antares	112 15.4	S 26 29.3
Elnath	278 01.0	N 28 37.8	Atria	107 09.3	S 69 04.6
Alnilam	275 37.0	S 01 11.0	Sabik	102 02.3	S 15 45.4
Betelgeuze	270 51.3	N 07 24.8	Shaula	96 09.7	S 37 07.4
Canopus	263 52.1	S 52 42.2	Rasalhague	95 58.1	N 12 32.7
Sirius	258 25.5	S 16 44.3	Etamin	90 42.0	N 51 29.4
Adhara	255 05.4	S 29 00.1	Kaus Australis	83 31.8	S 34 22.4
Castor	245 56.3	N 31 49.9	Vega	80 33.0	N 38 48.6
Procyon	244 50.0	N 05 10.1	Nunki	75 47.0	S 26 15.9
Pollux	243 16.3	N 27 57.8	Albireo	67 03.5	N 28 01.0
Avior	234 14.7	S 59 35.2	Altair	61 59.5	N 08 56.2
Suhail	222 46.1	S 43 31.9	Peacock	53 04.6	S 56 39.3
Miaplacidus	221 38.5	S 69 49.1	Deneb	49 25.2	N 45 22.6
Alphard	217 47.4	S 08 46.1	Enif	33 38.0	N 09 59.8
Regulus	207 33.9	N 11 50.6	Alnair	27 31.9	S 46 50.2
Dubhe	193 40.7	N 61 36.6	Formalhaut	15 13.7	S 29 29.0
Denebola	182 24.5	N 14 25.8	Markab	13 29.0	N 15 20.8

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UT	day 286 of 365		day 287 of 365		day 288 of 365		day 289 of 365		day 290 of 365		UT		
	October 13		October 14		October 15		October 16		October 17				
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA			
	°	'	°	'	°	'	°	'	°	'			
00	21	48.6	+02.5	22	47.7	+02.5	23	46.9	+02.4	24	46.0	+02.5	00
01	36	51.1	+02.4	37	50.2	+02.5	38	49.3	+02.5	39	48.5	+02.4	01
02	51	53.5	+02.5	52	52.7	+02.4	53	51.8	+02.5	54	50.9	+02.5	02
03	66	56.0	+02.4	67	55.1	+02.5	68	54.3	+02.4	69	53.4	+02.5	03
04	81	58.4	+02.5	82	57.6	+02.5	83	56.7	+02.5	84	55.9	+02.4	04
05	97	00.9	+02.5	98	00.1	+02.4	98	59.2	+02.5	99	58.3	+02.5	05
06	112	03.4	+02.4	113	02.5	+02.5	114	01.7	+02.4	115	00.8	+02.5	06
07	127	05.8	+02.5	128	05.0	+02.4	129	04.1	+02.5	130	03.3	+02.4	07
08	142	08.3	+02.5	143	07.4	+02.5	144	06.6	+02.4	145	05.7	+02.5	08
09	157	10.8	+02.4	158	09.9	+02.5	159	09.0	+02.5	160	08.2	+02.5	09
10	172	13.2	+02.5	173	12.4	+02.4	174	11.5	+02.5	175	10.7	+02.4	10
11	187	15.7	+02.5	188	14.8	+02.5	189	14.0	+02.4	190	13.1	+02.5	11
12	202	18.2	+02.4	203	17.3	+02.5	204	16.4	+02.5	205	15.6	+02.4	12
13	217	20.6	+02.5	218	19.8	+02.4	219	18.9	+02.5	220	18.0	+02.5	13
14	232	23.1	+02.5	233	22.2	+02.5	234	21.4	+02.4	235	20.5	+02.5	14
15	247	25.6	+02.4	248	24.7	+02.5	249	23.8	+02.5	250	23.0	+02.4	15
16	262	28.0	+02.5	263	27.2	+02.4	264	26.3	+02.5	265	25.4	+02.5	16
17	277	30.5	+02.4	278	29.6	+02.5	279	28.8	+02.4	280	27.9	+02.5	17
18	292	32.9	+02.5	293	32.1	+02.5	294	31.2	+02.5	295	30.4	+02.4	18
19	307	35.4	+02.5	308	34.6	+02.4	309	33.7	+02.5	310	32.8	+02.5	19
20	322	37.9	+02.4	323	37.0	+02.5	324	36.2	+02.4	325	35.3	+02.5	20
21	337	40.3	+02.5	338	39.5	+02.4	339	38.6	+02.5	340	37.8	+02.4	21
22	352	42.8	+02.5	353	41.9	+02.5	354	41.1	+02.4	355	40.2	+02.5	22
23	7	45.3	+02.4	8	44.4	+02.5	9	43.5	+02.5	10	42.7	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.2	Gienah	175	43.2	S 17	41.0
Ankaa	353	06.2	S 42	09.7	Acrux	173	00.1	S 63	14.4
Schedir	349	29.8	N 56	40.9	Gacrux	171	51.6	S 57	15.2
Diphda	348	46.4	S 17	50.6	Alioth	166	13.1	N 55	49.2
Achernar	335	19.2	S 57	06.2	Spica	158	22.0	S 11	17.6
Hamal	327	50.2	N 23	35.2	Alkaid	152	51.9	N 49	11.1
Polaris	313	19.0	N 89	22.2	Hadar	148	35.8	S 60	29.8
Acamar	315	10.9	S 40	11.9	Menkent	147	57.0	S 36	29.5
Menkar	314	05.2	N 04	11.6	Arcturus	145	47.2	N 19	03.8
Mirfak	308	27.0	N 49	57.1	Rigel Kentaurus	139	37.1	S 60	56.7
Aldebaran	290	38.7	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.8	N 46	01.5	Kocab	137	20.8	N 74	03.0
Rigel	281	03.1	S 08	10.1	Alphecca	126	03.6	N 26	37.8
Bellatrix	278	22.0	N 06	22.5	Antares	112	15.4	S 26	29.3
Elnath	278	00.9	N 28	37.8	Atria	107	09.3	S 69	04.6
Alnilam	275	37.0	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.3	N 07	24.8	Shaula	96	09.7	S 37	07.4
Canopus	263	52.0	S 52	42.2	Rasalhague	95	58.2	N 12	32.7
Sirius	258	25.4	S 16	44.3	Etamin	90	42.1	N 51	29.4
Adhara	255	05.3	S 29	00.1	Kaus Australis	83	31.8	S 34	22.4
Castor	245	56.2	N 31	49.9	Vega	80	33.0	N 38	48.6
Procyon	244	49.9	N 05	10.1	Nunki	75	47.0	S 26	15.9
Pollux	243	16.2	N 27	57.8	Albireo	67	03.6	N 28	01.0
Avior	234	14.7	S 59	35.2	Altair	61	59.5	N 08	56.2
Suhail	222	46.0	S 43	31.9	Peacock	53	04.6	S 56	39.3
Miaplacidus	221	38.4	S 69	49.1	Deneb	49	25.3	N 45	22.6
Alphard	217	47.3	S 08	46.1	Enif	33	38.0	N 09	59.8
Regulus	207	33.9	N 11	50.5	Alnair	27	31.9	S 46	50.2
Dubhe	193	40.6	N 61	36.6	Formalhaut	15	13.7	S 29	29.0
Denebola	182	24.4	N 14	25.8	Markab	13	29.0	N 15	20.8

2025 - First Point of Aries / Selected Stars

UT	day 291 of 365		day 292 of 365		day 293 of 365		day 294 of 365		day 295 of 365		UT					
	<i>October 18</i>		<i>October 19</i>		<i>October 20</i>		<i>October 21</i>		<i>October 22</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	26	44.3	+02.4	27	43.4	+02.5	28	42.6	+02.4	29	41.7	+02.5	30	40.8	+02.5	00
01	41	46.7	+02.5	42	45.9	+02.5	43	45.0	+02.5	44	44.2	+02.4	45	43.3	+02.5	01
02	56	49.2	+02.5	57	48.4	+02.4	58	47.5	+02.5	59	46.6	+02.5	60	45.8	+02.4	02
03	71	51.7	+02.4	72	50.8	+02.5	73	50.0	+02.4	74	49.1	+02.5	75	48.2	+02.5	03
04	86	54.1	+02.5	87	53.3	+02.4	88	52.4	+02.5	89	51.6	+02.4	90	50.7	+02.5	04
05	101	56.6	+02.5	102	55.7	+02.5	103	54.9	+02.4	104	54.0	+02.5	105	53.2	+02.4	05
06	116	59.1	+02.4	117	58.2	+02.5	118	57.3	+02.5	119	56.5	+02.4	120	55.6	+02.5	06
07	132	01.5	+02.5	133	00.7	+02.4	133	59.8	+02.5	134	58.9	+02.5	135	58.1	+02.4	07
08	147	04.0	+02.5	148	03.1	+02.5	149	02.3	+02.4	150	01.4	+02.5	151	00.5	+02.5	08
09	162	06.5	+02.4	163	05.6	+02.5	164	04.7	+02.5	165	03.9	+02.4	166	03.0	+02.5	09
10	177	08.9	+02.5	178	08.1	+02.4	179	07.2	+02.5	180	06.3	+02.5	181	05.5	+02.4	10
11	192	11.4	+02.5	193	10.5	+02.5	194	09.7	+02.4	195	08.8	+02.5	196	07.9	+02.5	11
12	207	13.9	+02.4	208	13.0	+02.5	209	12.1	+02.5	210	11.3	+02.4	211	10.4	+02.5	12
13	222	16.3	+02.5	223	15.5	+02.4	224	14.6	+02.5	225	13.7	+02.5	226	12.9	+02.4	13
14	237	18.8	+02.4	238	17.9	+02.5	239	17.1	+02.4	240	16.2	+02.5	241	15.3	+02.5	14
15	252	21.2	+02.5	253	20.4	+02.4	254	19.5	+02.5	255	18.7	+02.4	256	17.8	+02.5	15
16	267	23.7	+02.5	268	22.8	+02.5	269	22.0	+02.4	270	21.1	+02.5	271	20.3	+02.4	16
17	282	26.2	+02.4	283	25.3	+02.5	284	24.4	+02.5	285	23.6	+02.4	286	22.7	+02.5	17
18	297	28.6	+02.5	298	27.8	+02.4	299	26.9	+02.5	300	26.0	+02.5	301	25.2	+02.5	18
19	312	31.1	+02.5	313	30.2	+02.5	314	29.4	+02.4	315	28.5	+02.5	316	27.7	+02.4	19
20	327	33.6	+02.4	328	32.7	+02.5	329	31.8	+02.5	330	31.0	+02.4	331	30.1	+02.5	20
21	342	36.0	+02.5	343	35.2	+02.4	344	34.3	+02.5	345	33.4	+02.5	346	32.6	+02.4	21
22	357	38.5	+02.5	358	37.6	+02.5	359	36.8	+02.4	0	35.9	+02.5	1	35.0	+02.5	22
23	12	41.0	+02.4	13	40.1	+02.5	14	39.2	+02.5	15	38.4	+02.4	16	37.5	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.2	Gienah	175	43.2	S 17	41.0
Ankaa	353	06.2	S 42	09.8	Acrux	173	00.1	S 63	14.4
Schedir	349	29.8	N 56	40.9	Gacrux	171	51.6	S 57	15.2
Diphda	348	46.4	S 17	50.6	Alioth	166	13.1	N 55	49.2
Achernar	335	19.2	S 57	06.2	Spica	158	22.0	S 11	17.6
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.9	N 49	11.1
Polaris	313	17.7	N 89	22.3	Hadar	148	35.8	S 60	29.8
Acamar	315	10.8	S 40	11.9	Menkent	147	57.0	S 36	29.5
Menkar	314	05.2	N 04	11.6	Arcturus	145	47.2	N 19	03.8
Mirfak	308	26.9	N 49	57.2	Rigel Kentaurus	139	37.1	S 60	56.7
Aldebaran	290	38.7	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.7	N 46	01.5	Kocab	137	20.8	N 74	03.0
Rigel	281	03.1	S 08	10.1	Alphecca	126	03.6	N 26	37.8
Bellatrix	278	22.0	N 06	22.5	Antares	112	15.5	S 26	29.3
Elnath	278	00.9	N 28	37.8	Atria	107	09.4	S 69	04.6
Alnilam	275	36.9	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.3	N 07	24.8	Shaula	96	09.7	S 37	07.4
Canopus	263	51.9	S 52	42.2	Rasalhague	95	58.2	N 12	32.7
Sirius	258	25.4	S 16	44.3	Etamin	90	42.1	N 51	29.4
Adhara	255	05.3	S 29	00.1	Kaus Australis	83	31.8	S 34	22.4
Castor	245	56.2	N 31	49.9	Vega	80	33.0	N 38	48.6
Procyon	244	49.9	N 05	10.1	Nunki	75	47.1	S 26	15.9
Pollux	243	16.2	N 27	57.8	Albireo	67	03.6	N 28	01.0
Avior	234	14.6	S 59	35.2	Altair	61	59.5	N 08	56.2
Suhail	222	46.0	S 43	31.9	Peacock	53	04.6	S 56	39.3
Miaplacidus	221	38.4	S 69	49.1	Deneb	49	25.3	N 45	22.6
Alphard	217	47.3	S 08	46.1	Enif	33	38.0	N 09	59.8
Regulus	207	33.8	N 11	50.5	Alnair	27	31.9	S 46	50.2
Dubhe	193	40.6	N 61	36.6	Formalhaut	15	13.7	S 29	29.1
Denebola	182	24.4	N 14	25.8	Markab	13	29.1	N 15	20.8

2025 - First Point of Aries / Selected Stars

UT	day 296 of 365		day 297 of 365		day 298 of 365		day 299 of 365		day 300 of 365		UT					
	<i>October 23</i>		<i>October 24</i>		<i>October 25</i>		<i>October 26</i>		<i>October 27</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	31	40.0	+02.4	32	39.1	+02.5	33	38.3	+02.4	34	37.4	+02.5	35	36.5	+02.5	00
01	46	42.4	+02.5	47	41.6	+02.4	48	40.7	+02.5	49	39.9	+02.4	50	39.0	+02.5	01
02	61	44.9	+02.5	62	44.0	+02.5	63	43.2	+02.4	64	42.3	+02.5	65	41.5	+02.4	02
03	76	47.4	+02.4	77	46.5	+02.5	78	45.6	+02.5	79	44.8	+02.4	80	43.9	+02.5	03
04	91	49.8	+02.5	92	49.0	+02.4	93	48.1	+02.5	94	47.2	+02.5	95	46.4	+02.5	04
05	106	52.3	+02.5	107	51.4	+02.5	108	50.6	+02.4	109	49.7	+02.5	110	48.9	+02.4	05
06	121	54.8	+02.4	122	53.9	+02.5	123	53.0	+02.5	124	52.2	+02.4	125	51.3	+02.5	06
07	136	57.2	+02.5	137	56.4	+02.4	138	55.5	+02.5	139	54.6	+02.5	140	53.8	+02.4	07
08	151	59.7	+02.4	152	58.8	+02.5	153	58.0	+02.4	154	57.1	+02.5	155	56.2	+02.5	08
09	167	02.1	+02.5	168	01.3	+02.5	169	00.4	+02.5	169	59.6	+02.4	170	58.7	+02.5	09
10	182	04.6	+02.5	183	03.8	+02.4	184	02.9	+02.5	185	02.0	+02.5	186	01.2	+02.4	10
11	197	07.1	+02.4	198	06.2	+02.5	199	05.4	+02.4	200	04.5	+02.5	201	03.6	+02.5	11
12	212	09.5	+02.5	213	08.7	+02.4	214	07.8	+02.5	215	07.0	+02.4	216	06.1	+02.5	12
13	227	12.0	+02.5	228	11.1	+02.5	229	10.3	+02.4	230	09.4	+02.5	231	08.6	+02.4	13
14	242	14.5	+02.4	243	13.6	+02.5	244	12.7	+02.5	245	11.9	+02.5	246	11.0	+02.5	14
15	257	16.9	+02.5	258	16.1	+02.4	259	15.2	+02.5	260	14.4	+02.4	261	13.5	+02.5	15
16	272	19.4	+02.5	273	18.5	+02.5	274	17.7	+02.4	275	16.8	+02.5	276	16.0	+02.4	16
17	287	21.9	+02.4	288	21.0	+02.5	289	20.1	+02.5	290	19.3	+02.4	291	18.4	+02.5	17
18	302	24.3	+02.5	303	23.5	+02.4	304	22.6	+02.5	305	21.7	+02.5	306	20.9	+02.4	18
19	317	26.8	+02.5	318	25.9	+02.5	319	25.1	+02.4	320	24.2	+02.5	321	23.3	+02.5	19
20	332	29.3	+02.4	333	28.4	+02.5	334	27.5	+02.5	335	26.7	+02.4	336	25.8	+02.5	20
21	347	31.7	+02.5	348	30.9	+02.4	349	30.0	+02.5	350	29.1	+02.5	351	28.3	+02.4	21
22	2	34.2	+02.4	3	33.3	+02.5	4	32.5	+02.4	5	31.6	+02.5	6	30.7	+02.5	22
23	17	36.6	+02.5	18	35.8	+02.5	19	34.9	+02.5	20	34.1	+02.4	21	33.2	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.2	Gienah	175	43.2	S 17	41.0
Ankaa	353	06.2	S 42	09.8	Acrux	173	00.1	S 63	14.4
Schedir	349	29.8	N 56	40.9	Gacrux	171	51.6	S 57	15.2
Diphda	348	46.4	S 17	50.6	Alioth	166	13.0	N 55	49.1
Achernar	335	19.2	S 57	06.3	Spica	158	22.0	S 11	17.6
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.9	N 49	11.1
Polaris	313	16.4	N 89	22.3	Hadar	148	35.8	S 60	29.8
Acamar	315	10.8	S 40	11.9	Menkent	147	57.0	S 36	29.4
Menkar	314	05.2	N 04	11.6	Arcturus	145	47.2	N 19	03.8
Mirfak	308	26.9	N 49	57.2	Rigel Kentaurus	139	37.1	S 60	56.7
Aldebaran	290	38.7	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.7	N 46	01.5	Kocab	137	20.9	N 74	03.0
Rigel	281	03.0	S 08	10.1	Alphecca	126	03.6	N 26	37.8
Bellatrix	278	22.0	N 06	22.5	Antares	112	15.5	S 26	29.3
Elnath	278	00.8	N 28	37.8	Atria	107	09.4	S 69	04.6
Alnilam	275	36.9	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.2	N 07	24.8	Shaula	96	09.8	S 37	07.4
Canopus	263	51.9	S 52	42.2	Rasalhague	95	58.2	N 12	32.7
Sirius	258	25.4	S 16	44.3	Etamin	90	42.2	N 51	29.3
Adhara	255	05.3	S 29	00.1	Kaus Australis	83	31.8	S 34	22.4
Castor	245	56.1	N 31	49.9	Vega	80	33.1	N 38	48.6
Procyon	244	49.9	N 05	10.1	Nunki	75	47.1	S 26	15.9
Pollux	243	16.1	N 27	57.8	Albireo	67	03.6	N 28	01.0
Avior	234	14.5	S 59	35.2	Altair	61	59.6	N 08	56.2
Suhail	222	46.0	S 43	31.9	Peacock	53	04.7	S 56	39.3
Miaplacidus	221	38.3	S 69	49.1	Deneb	49	25.3	N 45	22.6
Alphard	217	47.2	S 08	46.1	Enif	33	38.1	N 09	59.8
Regulus	207	33.8	N 11	50.5	Alnair	27	31.9	S 46	50.2
Dubhe	193	40.6	N 61	36.5	Formalhaut	15	13.7	S 29	29.1
Denebola	182	24.4	N 14	25.8	Markab	13	29.1	N 15	20.9

2025 - First Point of Aries / Selected Stars

UT	day 301 of 365		day 302 of 365		day 303 of 365		day 304 of 365		day 305 of 365		UT					
	<i>October 28</i>		<i>October 29</i>		<i>October 30</i>		<i>October 31</i>		<i>November 1</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	36	35.7	+02.4	37	34.8	+02.5	38	33.9	+02.5	39	33.1	+02.5	40	32.2	+02.5	00
01	51	38.1	+02.5	52	37.3	+02.4	53	36.4	+02.5	54	35.6	+02.4	55	34.7	+02.5	01
02	66	40.6	+02.5	67	39.7	+02.5	68	38.9	+02.4	69	38.0	+02.5	70	37.2	+02.4	02
03	81	43.1	+02.4	82	42.2	+02.5	83	41.3	+02.5	84	40.5	+02.4	85	39.6	+02.5	03
04	96	45.5	+02.5	97	44.7	+02.4	98	43.8	+02.5	99	42.9	+02.5	100	42.1	+02.4	04
05	111	48.0	+02.5	112	47.1	+02.5	113	46.3	+02.4	114	45.4	+02.5	115	44.5	+02.5	05
06	126	50.5	+02.4	127	49.6	+02.5	128	48.7	+02.5	129	47.9	+02.4	130	47.0	+02.5	06
07	141	52.9	+02.5	142	52.1	+02.4	143	51.2	+02.5	144	50.3	+02.5	145	49.5	+02.4	07
08	156	55.4	+02.4	157	54.5	+02.5	158	53.7	+02.4	159	52.8	+02.5	160	51.9	+02.5	08
09	171	57.8	+02.5	172	57.0	+02.5	173	56.1	+02.5	174	55.3	+02.4	175	54.4	+02.5	09
10	187	00.3	+02.5	187	59.5	+02.4	188	58.6	+02.5	189	57.7	+02.5	190	56.9	+02.4	10
11	202	02.8	+02.4	203	01.9	+02.5	204	01.1	+02.4	205	00.2	+02.5	205	59.3	+02.5	11
12	217	05.2	+02.5	218	04.4	+02.4	219	03.5	+02.5	220	02.7	+02.4	221	01.8	+02.5	12
13	232	07.7	+02.5	233	06.8	+02.5	234	06.0	+02.4	235	05.1	+02.5	236	04.3	+02.4	13
14	247	10.2	+02.4	248	09.3	+02.5	249	08.4	+02.5	250	07.6	+02.4	251	06.7	+02.5	14
15	262	12.6	+02.5	263	11.8	+02.4	264	10.9	+02.5	265	10.0	+02.5	266	09.2	+02.5	15
16	277	15.1	+02.5	278	14.2	+02.5	279	13.4	+02.4	280	12.5	+02.5	281	11.7	+02.4	16
17	292	17.6	+02.4	293	16.7	+02.5	294	15.8	+02.5	295	15.0	+02.4	296	14.1	+02.5	17
18	307	20.0	+02.5	308	19.2	+02.4	309	18.3	+02.5	310	17.4	+02.5	311	16.6	+02.4	18
19	322	22.5	+02.5	323	21.6	+02.5	324	20.8	+02.4	325	19.9	+02.5	326	19.0	+02.5	19
20	337	25.0	+02.4	338	24.1	+02.5	339	23.2	+02.5	340	22.4	+02.4	341	21.5	+02.5	20
21	352	27.4	+02.5	353	26.6	+02.4	354	25.7	+02.5	355	24.8	+02.5	356	24.0	+02.4	21
22	7	29.9	+02.4	8	29.0	+02.5	9	28.2	+02.4	10	27.3	+02.5	11	26.4	+02.5	22
23	22	32.3	+02.5	23	31.5	+02.4	24	30.6	+02.5	25	29.8	+02.4	26	28.9	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.3	Gienah	175	43.2	S 17	41.0
Ankaa	353	06.2	S 42	09.8	Acrux	173	00.0	S 63	14.3
Schedir	349	29.8	N 56	41.0	Gacrux	171	51.5	S 57	15.2
Diphda	348	46.4	S 17	50.6	Alioth	166	13.0	N 55	49.1
Achernar	335	19.2	S 57	06.3	Spica	158	21.9	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.9	N 49	11.1
Polaris	313	15.0	N 89	22.3	Hadar	148	35.7	S 60	29.8
Acamar	315	10.8	S 40	11.9	Menkent	147	56.9	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.2	N 19	03.8
Mirfak	308	26.9	N 49	57.2	Rigel Kentaurus	139	37.1	S 60	56.7
Aldebaran	290	38.6	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.6	N 46	01.5	Kocab	137	20.9	N 74	02.9
Rigel	281	03.0	S 08	10.1	Alphecca	126	03.6	N 26	37.8
Bellatrix	278	21.9	N 06	22.5	Antares	112	15.5	S 26	29.3
Elnath	278	00.8	N 28	37.8	Atria	107	09.5	S 69	04.5
Alnilam	275	36.9	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.2	N 07	24.8	Shaula	96	09.8	S 37	07.4
Canopus	263	51.8	S 52	42.2	Rasalhague	95	58.2	N 12	32.7
Sirius	258	25.3	S 16	44.4	Etamin	90	42.2	N 51	29.3
Adhara	255	05.2	S 29	00.1	Kaus Australis	83	31.8	S 34	22.3
Castor	245	56.1	N 31	49.9	Vega	80	33.1	N 38	48.5
Procyon	244	49.8	N 05	10.0	Nunki	75	47.1	S 26	15.9
Pollux	243	16.1	N 27	57.8	Albireo	67	03.6	N 28	01.0
Avior	234	14.5	S 59	35.2	Altair	61	59.6	N 08	56.2
Suhail	222	45.9	S 43	31.9	Peacock	53	04.7	S 56	39.3
Miaplacidus	221	38.2	S 69	49.1	Deneb	49	25.4	N 45	22.6
Alphard	217	47.2	S 08	46.1	Enif	33	38.1	N 09	59.8
Regulus	207	33.8	N 11	50.5	Alnair	27	32.0	S 46	50.2
Dubhe	193	40.5	N 61	36.5	Formalhaut	15	13.7	S 29	29.1
Denebola	182	24.4	N 14	25.7	Markab	13	29.1	N 15	20.9

2025 - First Point of Aries / Selected Stars

UT	day 306 of 365			day 307 of 365			day 308 of 365			day 309 of 365			day 310 of 365			UT		
	November 2			November 3			November 4			November 5			November 6					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	41	31.4	+02.4	42	30.5	+02.5	43	29.6	+02.5	44	28.8	+02.4	45	27.9	+02.5	00		
01	56	33.8	+02.5	57	33.0	+02.4	58	32.1	+02.5	59	31.2	+02.5	60	30.4	+02.4	01		
02	71	36.3	+02.5	72	35.4	+02.5	73	34.6	+02.4	74	33.7	+02.5	75	32.8	+02.5	02		
03	86	38.8	+02.4	87	37.9	+02.5	88	37.0	+02.5	89	36.2	+02.4	90	35.3	+02.5	03		
04	101	41.2	+02.5	102	40.4	+02.4	103	39.5	+02.5	104	38.6	+02.5	105	37.8	+02.4	04		
05	116	43.7	+02.4	117	42.8	+02.5	118	42.0	+02.4	119	41.1	+02.5	120	40.2	+02.5	05		
06	131	46.1	+02.5	132	45.3	+02.4	133	44.4	+02.5	134	43.6	+02.4	135	42.7	+02.5	06		
07	146	48.6	+02.5	147	47.7	+02.5	148	46.9	+02.5	149	46.0	+02.5	150	45.2	+02.4	07		
08	161	51.1	+02.4	162	50.2	+02.5	163	49.4	+02.4	164	48.5	+02.5	165	47.6	+02.5	08		
09	176	53.5	+02.5	177	52.7	+02.4	178	51.8	+02.5	179	51.0	+02.4	180	50.1	+02.5	09		
10	191	56.0	+02.5	192	55.1	+02.5	193	54.3	+02.4	194	53.4	+02.5	195	52.6	+02.4	10		
11	206	58.5	+02.4	207	57.6	+02.5	208	56.7	+02.5	209	55.9	+02.4	210	55.0	+02.5	11		
12	222	00.9	+02.5	223	00.1	+02.4	223	59.2	+02.5	224	58.3	+02.5	225	57.5	+02.5	12		
13	237	03.4	+02.5	238	02.5	+02.5	239	01.7	+02.4	240	00.8	+02.5	240	60.0	+02.4	13		
14	252	05.9	+02.4	253	05.0	+02.5	254	04.1	+02.5	255	03.3	+02.4	256	02.4	+02.5	14		
15	267	08.3	+02.5	268	07.5	+02.4	269	06.6	+02.5	270	05.7	+02.5	271	04.9	+02.4	15		
16	282	10.8	+02.5	283	09.9	+02.5	284	09.1	+02.4	285	08.2	+02.5	286	07.3	+02.5	16		
17	297	13.3	+02.4	298	12.4	+02.5	299	11.5	+02.5	300	10.7	+02.4	301	09.8	+02.5	17		
18	312	15.7	+02.5	313	14.9	+02.4	314	14.0	+02.5	315	13.1	+02.5	316	12.3	+02.4	18		
19	327	18.2	+02.4	328	17.3	+02.5	329	16.5	+02.4	330	15.6	+02.5	331	14.7	+02.5	19		
20	342	20.6	+02.5	343	19.8	+02.4	344	18.9	+02.5	345	18.1	+02.4	346	17.2	+02.5	20		
21	357	23.1	+02.5	358	22.2	+02.5	359	21.4	+02.4	0	20.5	+02.5	1	19.7	+02.4	21		
22	12	25.6	+02.4	13	24.7	+02.5	14	23.8	+02.5	15	23.0	+02.5	16	22.1	+02.5	22		
23	27	28.0	+02.5	28	27.2	+02.4	29	26.3	+02.5	30	25.5	+02.4	31	24.6	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	33.9	N 29	14.3	Gienah	175	43.1	S 17	41.0
Ankaa	353	06.2	S 42	09.8	Acrux	172	60.0	S 63	14.3
Schedir	349	29.9	N 56	41.0	Gacrux	171	51.5	S 57	15.2
Diphda	348	46.4	S 17	50.6	Alioth	166	13.0	N 55	49.1
Achernar	335	19.2	S 57	06.3	Spica	158	21.9	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.9	N 49	11.0
Polaris	313	14.3	N 89	22.4	Hadar	148	35.7	S 60	29.8
Acamar	315	10.8	S 40	11.9	Menkent	147	56.9	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.2	N 19	03.8
Mirfak	308	26.8	N 49	57.2	Rigel Kentaurus	139	37.1	S 60	56.7
Aldebaran	290	38.6	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.6	N 46	01.5	Kocab	137	20.9	N 74	02.9
Rigel	281	03.0	S 08	10.1	Alphecca	126	03.6	N 26	37.8
Bellatrix	278	21.9	N 06	22.5	Antares	112	15.5	S 26	29.3
Elnath	278	00.8	N 28	37.8	Atria	107	09.5	S 69	04.5
Alnilam	275	36.8	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.2	N 07	24.8	Shaula	96	09.8	S 37	07.4
Canopus	263	51.8	S 52	42.2	Rasalhague	95	58.2	N 12	32.7
Sirius	258	25.3	S 16	44.4	Etamin	90	42.2	N 51	29.3
Adhara	255	05.2	S 29	00.1	Kaus Australis	83	31.9	S 34	22.3
Castor	245	56.0	N 31	49.9	Vega	80	33.1	N 38	48.5
Procyon	244	49.8	N 05	10.0	Nunki	75	47.1	S 26	15.9
Pollux	243	16.0	N 27	57.8	Albireo	67	03.7	N 28	01.0
Avior	234	14.4	S 59	35.2	Altair	61	59.6	N 08	56.2
Suhail	222	45.9	S 43	31.9	Peacock	53	04.7	S 56	39.3
Miaplacidus	221	38.1	S 69	49.1	Deneb	49	25.4	N 45	22.6
Alphard	217	47.2	S 08	46.1	Enif	33	38.1	N 09	59.8
Regulus	207	33.7	N 11	50.5	Alnair	27	32.0	S 46	50.2
Dubhe	193	40.4	N 61	36.5	Formalhaut	15	13.7	S 29	29.1
Denebola	182	24.3	N 14	25.7	Markab	13	29.1	N 15	20.9

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UT	day 311 of 365 November 7		day 312 of 365 November 8		day 313 of 365 November 9		day 314 of 365 November 10		day 315 of 365 November 11		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	46	27.1 +02.4	47	26.2 +02.5	48	25.3 +02.5	49	24.5 +02.4	50	23.6 +02.5	00
01	61	29.5 +02.5	62	28.7 +02.4	63	27.8 +02.5	64	26.9 +02.5	65	26.1 +02.4	01
02	76	32.0 +02.4	77	31.1 +02.5	78	30.3 +02.4	79	29.4 +02.5	80	28.5 +02.5	02
03	91	34.4 +02.5	92	33.6 +02.5	93	32.7 +02.5	94	31.9 +02.4	95	31.0 +02.5	03
04	106	36.9 +02.5	107	36.1 +02.4	108	35.2 +02.5	109	34.3 +02.5	110	33.5 +02.4	04
05	121	39.4 +02.4	122	38.5 +02.5	123	37.7 +02.4	124	36.8 +02.5	125	35.9 +02.5	05
06	136	41.8 +02.5	137	41.0 +02.4	138	40.1 +02.5	139	39.3 +02.4	140	38.4 +02.5	06
07	151	44.3 +02.5	152	43.4 +02.5	153	42.6 +02.5	154	41.7 +02.5	155	40.9 +02.4	07
08	166	46.8 +02.4	167	45.9 +02.5	168	45.1 +02.4	169	44.2 +02.5	170	43.3 +02.5	08
09	181	49.2 +02.5	182	48.4 +02.4	183	47.5 +02.5	184	46.7 +02.4	185	45.8 +02.5	09
10	196	51.7 +02.5	197	50.8 +02.5	198	50.0 +02.4	199	49.1 +02.5	200	48.3 +02.4	10
11	211	54.2 +02.4	212	53.3 +02.5	213	52.4 +02.5	214	51.6 +02.5	215	50.7 +02.5	11
12	226	56.6 +02.5	227	55.8 +02.4	228	54.9 +02.5	229	54.1 +02.4	230	53.2 +02.5	12
13	241	59.1 +02.5	242	58.2 +02.5	243	57.4 +02.4	244	56.5 +02.5	245	55.7 +02.4	13
14	257	01.6 +02.4	258	00.7 +02.5	258	59.8 +02.5	259	59.0 +02.4	260	58.1 +02.5	14
15	272	04.0 +02.5	273	03.2 +02.4	274	02.3 +02.5	275	01.4 +02.5	276	00.6 +02.4	15
16	287	06.5 +02.4	288	05.6 +02.5	289	04.8 +02.4	290	03.9 +02.5	291	03.0 +02.5	16
17	302	08.9 +02.5	303	08.1 +02.5	304	07.2 +02.5	305	06.4 +02.4	306	05.5 +02.5	17
18	317	11.4 +02.5	318	10.6 +02.4	319	09.7 +02.5	320	08.8 +02.5	321	08.0 +02.4	18
19	332	13.9 +02.4	333	13.0 +02.5	334	12.2 +02.4	335	11.3 +02.5	336	10.4 +02.5	19
20	347	16.3 +02.5	348	15.5 +02.4	349	14.6 +02.5	350	13.8 +02.4	351	12.9 +02.5	20
21	2	18.8 +02.5	3	17.9 +02.5	4	17.1 +02.5	5	16.2 +02.5	6	15.4 +02.4	21
22	17	21.3 +02.4	18	20.4 +02.5	19	19.6 +02.4	20	18.7 +02.5	21	17.8 +02.5	22
23	32	23.7 +02.5	33	22.9 +02.4	34	22.0 +02.5	35	21.2 +02.4	36	20.3 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 33.9	N 29 14.3	Gienah	175 43.1	S 17 41.0
Ankaa	353 06.3	S 42 09.8	Acrux	172 59.9	S 63 14.3
Schedir	349 29.9	N 56 41.0	Gacrux	171 51.4	S 57 15.2
Diphda	348 46.4	S 17 50.6	Alioth	166 13.0	N 55 49.0
Achernar	335 19.2	S 57 06.3	Spica	158 21.9	S 11 17.7
Hamal	327 50.2	N 23 35.3	Alkaid	152 51.9	N 49 11.0
Polaris	313 13.4	N 89 22.4	Hadar	148 35.7	S 60 29.7
Acamar	315 10.8	S 40 12.0	Menkent	147 56.9	S 36 29.4
Menkar	314 05.1	N 04 11.6	Arcturus	145 47.2	N 19 03.7
Mirfak	308 26.8	N 49 57.2	Rigel Kentaurus	139 37.1	S 60 56.7
Aldebaran	290 38.6	N 16 33.8	Zubenelgenubi	136 55.6	S 16 08.8
Capella	280 20.6	N 46 01.6	Kocab	137 20.9	N 74 02.9
Rigel	281 02.9	S 08 10.2	Alphecca	126 03.6	N 26 37.8
Bellatrix	278 21.9	N 06 22.5	Antares	112 15.5	S 26 29.3
Elnath	278 00.7	N 28 37.8	Atria	107 09.5	S 69 04.5
Alnilam	275 36.8	S 01 11.0	Sabik	102 02.3	S 15 45.4
Betelgeuze	270 51.1	N 07 24.8	Shaula	96 09.8	S 37 07.4
Canopus	263 51.8	S 52 42.3	Rasalhague	95 58.2	N 12 32.7
Sirius	258 25.2	S 16 44.4	Etamin	90 42.3	N 51 29.3
Adhara	255 05.1	S 29 00.2	Kaus Australis	83 31.9	S 34 22.3
Castor	245 56.0	N 31 49.9	Vega	80 33.1	N 38 48.5
Procyon	244 49.8	N 05 10.0	Nunki	75 47.1	S 26 15.9
Pollux	243 16.0	N 27 57.8	Albireo	67 03.7	N 28 01.0
Avior	234 14.3	S 59 35.2	Altair	61 59.6	N 08 56.2
Suhail	222 45.8	S 43 31.9	Peacock	53 04.8	S 56 39.3
Miaplacidus	221 38.0	S 69 49.1	Deneb	49 25.4	N 45 22.6
Alphard	217 47.1	S 08 46.1	Enif	33 38.1	N 09 59.8
Regulus	207 33.7	N 11 50.5	Alnair	27 32.0	S 46 50.2
Dubhe	193 40.4	N 61 36.5	Formalhaut	15 13.8	S 29 29.1
Denebola	182 24.3	N 14 25.7	Markab	13 29.1	N 15 20.9

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UT	day 316 of 365		day 317 of 365		day 318 of 365		day 319 of 365		day 320 of 365		UT					
	November 12		November 13		November 14		November 15		November 16							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	51	22.8	+02.4	52	21.9	+02.5	53	21.0	+02.5	54	20.2	+02.4	55	19.3	+02.5	00
01	66	25.2	+02.5	67	24.4	+02.4	68	23.5	+02.5	69	22.6	+02.5	70	21.8	+02.4	01
02	81	27.7	+02.5	82	26.8	+02.5	83	26.0	+02.4	84	25.1	+02.5	85	24.2	+02.5	02
03	96	30.2	+02.4	97	29.3	+02.5	98	28.4	+02.5	99	27.6	+02.4	100	26.7	+02.5	03
04	111	32.6	+02.5	112	31.8	+02.4	113	30.9	+02.5	114	30.0	+02.5	115	29.2	+02.4	04
05	126	35.1	+02.4	127	34.2	+02.5	128	33.4	+02.4	129	32.5	+02.5	130	31.6	+02.5	05
06	141	37.5	+02.5	142	36.7	+02.4	143	35.8	+02.5	144	35.0	+02.4	145	34.1	+02.5	06
07	156	40.0	+02.5	157	39.1	+02.5	158	38.3	+02.4	159	37.4	+02.5	160	36.6	+02.4	07
08	171	42.5	+02.4	172	41.6	+02.5	173	40.7	+02.5	174	39.9	+02.5	175	39.0	+02.5	08
09	186	44.9	+02.5	187	44.1	+02.4	188	43.2	+02.5	189	42.4	+02.4	190	41.5	+02.5	09
10	201	47.4	+02.5	202	46.5	+02.5	203	45.7	+02.4	204	44.8	+02.5	205	44.0	+02.4	10
11	216	49.9	+02.4	217	49.0	+02.5	218	48.1	+02.5	219	47.3	+02.4	220	46.4	+02.5	11
12	231	52.3	+02.5	232	51.5	+02.4	233	50.6	+02.5	234	49.7	+02.5	235	48.9	+02.4	12
13	246	54.8	+02.5	247	53.9	+02.5	248	53.1	+02.4	249	52.2	+02.5	250	51.3	+02.5	13
14	261	57.3	+02.4	262	56.4	+02.5	263	55.5	+02.5	264	54.7	+02.4	265	53.8	+02.5	14
15	276	59.7	+02.5	277	58.9	+02.4	278	58.0	+02.5	279	57.1	+02.5	280	56.3	+02.4	15
16	292	02.2	+02.5	293	01.3	+02.5	294	00.5	+02.4	294	59.6	+02.5	295	58.7	+02.5	16
17	307	04.7	+02.4	308	03.8	+02.5	309	02.9	+02.5	310	02.1	+02.4	311	01.2	+02.5	17
18	322	07.1	+02.5	323	06.3	+02.4	324	05.4	+02.5	325	04.5	+02.5	326	03.7	+02.4	18
19	337	09.6	+02.4	338	08.7	+02.5	339	07.9	+02.4	340	07.0	+02.5	341	06.1	+02.5	19
20	352	12.0	+02.5	353	11.2	+02.4	354	10.3	+02.5	355	09.5	+02.4	356	08.6	+02.5	20
21	7	14.5	+02.5	8	13.6	+02.5	9	12.8	+02.4	10	11.9	+02.5	11	11.1	+02.4	21
22	22	17.0	+02.4	23	16.1	+02.5	24	15.2	+02.5	25	14.4	+02.4	26	13.5	+02.5	22
23	37	19.4	+02.5	38	18.6	+02.4	39	17.7	+02.5	40	16.8	+02.5	41	16.0	+02.4	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	33.9	N 29	14.3	Gienah	175	43.1	S 17	41.0
Ankaa	353	06.3	S 42	09.8	Acrux	172	59.9	S 63	14.3
Schedir	349	29.9	N 56	41.0	Gacrux	171	51.4	S 57	15.2
Diphda	348	46.4	S 17	50.7	Alioth	166	12.9	N 55	49.0
Achernar	335	19.2	S 57	06.4	Spica	158	21.9	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.8	N 49	11.0
Polaris	313	12.7	N 89	22.4	Hadar	148	35.7	S 60	29.7
Acamar	315	10.8	S 40	12.0	Menkent	147	56.9	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.2	N 19	03.7
Mirfak	308	26.8	N 49	57.3	Rigel Kentaurus	139	37.0	S 60	56.6
Aldebaran	290	38.5	N 16	33.8	Zubenelgenubi	136	55.6	S 16	08.8
Capella	280	20.5	N 46	01.6	Kocab	137	20.9	N 74	02.8
Rigel	281	02.9	S 08	10.2	Alphecca	126	03.6	N 26	37.7
Bellatrix	278	21.8	N 06	22.5	Antares	112	15.5	S 26	29.3
Elnath	278	00.7	N 28	37.8	Atria	107	09.5	S 69	04.5
Alnilam	275	36.8	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.1	N 07	24.8	Shaula	96	09.8	S 37	07.4
Canopus	263	51.7	S 52	42.3	Rasalhague	95	58.2	N 12	32.7
Sirius	258	25.2	S 16	44.4	Etamin	90	42.3	N 51	29.3
Adhara	255	05.1	S 29	00.2	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.9	N 31	49.8	Vega	80	33.2	N 38	48.5
Procyon	244	49.7	N 05	10.0	Nunki	75	47.1	S 26	15.9
Pollux	243	15.9	N 27	57.8	Albireo	67	03.7	N 28	01.0
Avior	234	14.3	S 59	35.2	Altair	61	59.6	N 08	56.2
Suhail	222	45.8	S 43	31.9	Peacock	53	04.8	S 56	39.3
Miaplacidus	221	37.9	S 69	49.1	Deneb	49	25.5	N 45	22.6
Alphard	217	47.1	S 08	46.1	Enif	33	38.1	N 09	59.8
Regulus	207	33.7	N 11	50.5	Alnair	27	32.0	S 46	50.2
Dubhe	193	40.3	N 61	36.4	Formalhaut	15	13.8	S 29	29.1
Denebola	182	24.3	N 14	25.7	Markab	13	29.1	N 15	20.9

2025 - First Point of Aries / Selected Stars

UT	day 321 of 365		day 322 of 365		day 323 of 365		day 324 of 365		day 325 of 365		UT
	<i>November 17</i>		<i>November 18</i>		<i>November 19</i>		<i>November 20</i>		<i>November 21</i>		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	56	18.4 +02.5	57	17.6 +02.5	58	16.7 +02.5	59	15.9 +02.4	60	15.0 +02.5	00
01	71	20.9 +02.5	72	20.1 +02.4	73	19.2 +02.5	74	18.3 +02.5	75	17.5 +02.4	01
02	86	23.4 +02.4	87	22.5 +02.5	88	21.7 +02.4	89	20.8 +02.5	90	19.9 +02.5	02
03	101	25.8 +02.5	102	25.0 +02.4	103	24.1 +02.5	104	23.3 +02.4	105	22.4 +02.5	03
04	116	28.3 +02.5	117	27.4 +02.5	118	26.6 +02.4	119	25.7 +02.5	120	24.9 +02.4	04
05	131	30.8 +02.4	132	29.9 +02.5	133	29.0 +02.5	134	28.2 +02.5	135	27.3 +02.5	05
06	146	33.2 +02.5	147	32.4 +02.4	148	31.5 +02.5	149	30.7 +02.4	150	29.8 +02.5	06
07	161	35.7 +02.5	162	34.8 +02.5	163	34.0 +02.4	164	33.1 +02.5	165	32.3 +02.4	07
08	176	38.2 +02.4	177	37.3 +02.5	178	36.4 +02.5	179	35.6 +02.4	180	34.7 +02.5	08
09	191	40.6 +02.5	192	39.8 +02.4	193	38.9 +02.5	194	38.0 +02.5	195	37.2 +02.4	09
10	206	43.1 +02.5	207	42.2 +02.5	208	41.4 +02.4	209	40.5 +02.5	210	39.6 +02.5	10
11	221	45.6 +02.4	222	44.7 +02.5	223	43.8 +02.5	224	43.0 +02.4	225	42.1 +02.5	11
12	236	48.0 +02.5	237	47.2 +02.4	238	46.3 +02.5	239	45.4 +02.5	240	44.6 +02.4	12
13	251	50.5 +02.4	252	49.6 +02.5	253	48.8 +02.4	254	47.9 +02.5	255	47.0 +02.5	13
14	266	52.9 +02.5	267	52.1 +02.4	268	51.2 +02.5	269	50.4 +02.4	270	49.5 +02.5	14
15	281	55.4 +02.5	282	54.5 +02.5	283	53.7 +02.5	284	52.8 +02.5	285	52.0 +02.4	15
16	296	57.9 +02.4	297	57.0 +02.5	298	56.2 +02.4	299	55.3 +02.5	300	54.4 +02.5	16
17	312	00.3 +02.5	312	59.5 +02.4	313	58.6 +02.5	314	57.8 +02.4	315	56.9 +02.5	17
18	327	02.8 +02.5	328	01.9 +02.5	329	01.1 +02.4	330	00.2 +02.5	330	59.4 +02.4	18
19	342	05.3 +02.4	343	04.4 +02.5	344	03.5 +02.5	345	02.7 +02.4	346	01.8 +02.5	19
20	357	07.7 +02.5	358	06.9 +02.4	359	06.0 +02.5	0	05.1 +02.5	1	04.3 +02.5	20
21	12	10.2 +02.5	13	09.3 +02.5	14	08.5 +02.4	15	07.6 +02.5	16	06.8 +02.4	21
22	27	12.7 +02.4	28	11.8 +02.5	29	10.9 +02.5	30	10.1 +02.4	31	09.2 +02.5	22
23	42	15.1 +02.5	43	14.3 +02.4	44	13.4 +02.5	45	12.5 +02.5	46	11.7 +02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 33.9	N 29 14.3	Gienah	175 43.0	S 17 41.0
Ankaa	353 06.3	S 42 09.9	Acrux	172 59.8	S 63 14.3
Schedir	349 29.9	N 56 41.0	Gacrux	171 51.3	S 57 15.1
Diphda	348 46.5	S 17 50.7	Alioth	166 12.9	N 55 49.0
Achernar	335 19.2	S 57 06.4	Spica	158 21.8	S 11 17.7
Hamal	327 50.2	N 23 35.3	Alkaid	152 51.8	N 49 10.9
Polaris	313 12.6	N 89 22.5	Hadar	148 35.6	S 60 29.7
Acamar	315 10.8	S 40 12.0	Menkent	147 56.9	S 36 29.4
Menkar	314 05.1	N 04 11.6	Arcturus	145 47.2	N 19 03.7
Mirfak	308 26.8	N 49 57.3	Rigel Kentaurus	139 37.0	S 60 56.6
Aldebaran	290 38.5	N 16 33.8	Zubenelgenubi	136 55.5	S 16 08.8
Capella	280 20.5	N 46 01.6	Kocab	137 20.9	N 74 02.8
Rigel	281 02.9	S 08 10.2	Alphecca	126 03.6	N 26 37.7
Bellatrix	278 21.8	N 06 22.5	Antares	112 15.5	S 26 29.3
Elnath	278 00.7	N 28 37.8	Atria	107 09.5	S 69 04.5
Alnilam	275 36.7	S 01 11.0	Sabik	102 02.3	S 15 45.4
Betelgeuze	270 51.1	N 07 24.8	Shaula	96 09.8	S 37 07.4
Canopus	263 51.7	S 52 42.3	Rasalhague	95 58.3	N 12 32.6
Sirius	258 25.2	S 16 44.4	Etamin	90 42.3	N 51 29.3
Adhara	255 05.1	S 29 00.2	Kaus Australis	83 31.9	S 34 22.3
Castor	245 55.9	N 31 49.8	Vega	80 33.2	N 38 48.5
Procyon	244 49.7	N 05 10.0	Nunki	75 47.2	S 26 15.9
Pollux	243 15.9	N 27 57.8	Albireo	67 03.7	N 28 01.0
Avior	234 14.2	S 59 35.2	Altair	61 59.7	N 08 56.1
Suhail	222 45.7	S 43 31.9	Peacock	53 04.9	S 56 39.3
Miaplacidus	221 37.8	S 69 49.1	Deneb	49 25.5	N 45 22.6
Alphard	217 47.1	S 08 46.1	Enif	33 38.1	N 09 59.8
Regulus	207 33.6	N 11 50.4	Alnair	27 32.1	S 46 50.2
Dubhe	193 40.3	N 61 36.4	Formalhaut	15 13.8	S 29 29.1
Denebola	182 24.2	N 14 25.7	Markab	13 29.1	N 15 20.9

2025 - First Point of Aries / Selected Stars

UT	day 326 of 365		day 327 of 365		day 328 of 365		day 329 of 365		day 330 of 365		UT					
	November 22		November 23		November 24		November 25		November 26							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	61	14.1	+02.5	62	13.3	+02.5	63	12.4	+02.5	64	11.6	+02.4	65	10.7	+02.5	00
01	76	16.6	+02.5	77	15.8	+02.4	78	14.9	+02.5	79	14.0	+02.5	80	13.2	+02.4	01
02	91	19.1	+02.4	92	18.2	+02.5	93	17.4	+02.4	94	16.5	+02.5	95	15.6	+02.5	02
03	106	21.5	+02.5	107	20.7	+02.4	108	19.8	+02.5	109	19.0	+02.4	110	18.1	+02.5	03
04	121	24.0	+02.5	122	23.1	+02.5	123	22.3	+02.4	124	21.4	+02.5	125	20.6	+02.4	04
05	136	26.5	+02.4	137	25.6	+02.5	138	24.7	+02.5	139	23.9	+02.5	140	23.0	+02.5	05
06	151	28.9	+02.5	152	28.1	+02.4	153	27.2	+02.5	154	26.4	+02.4	155	25.5	+02.5	06
07	166	31.4	+02.5	167	30.5	+02.5	168	29.7	+02.4	169	28.8	+02.5	170	28.0	+02.4	07
08	181	33.9	+02.4	182	33.0	+02.5	183	32.1	+02.5	184	31.3	+02.4	185	30.4	+02.5	08
09	196	36.3	+02.5	197	35.5	+02.4	198	34.6	+02.5	199	33.7	+02.5	200	32.9	+02.5	09
10	211	38.8	+02.5	212	37.9	+02.5	213	37.1	+02.4	214	36.2	+02.5	215	35.4	+02.4	10
11	226	41.3	+02.4	227	40.4	+02.5	228	39.5	+02.5	229	38.7	+02.4	230	37.8	+02.5	11
12	241	43.7	+02.5	242	42.9	+02.4	243	42.0	+02.5	244	41.1	+02.5	245	40.3	+02.4	12
13	256	46.2	+02.4	257	45.3	+02.5	258	44.5	+02.4	259	43.6	+02.5	260	42.7	+02.5	13
14	271	48.6	+02.5	272	47.8	+02.5	273	46.9	+02.5	274	46.1	+02.4	275	45.2	+02.5	14
15	286	51.1	+02.5	287	50.3	+02.4	288	49.4	+02.5	289	48.5	+02.5	290	47.7	+02.4	15
16	301	53.6	+02.4	302	52.7	+02.5	303	51.9	+02.4	304	51.0	+02.5	305	50.1	+02.5	16
17	316	56.0	+02.5	317	55.2	+02.4	318	54.3	+02.5	319	53.5	+02.4	320	52.6	+02.5	17
18	331	58.5	+02.5	332	57.6	+02.5	333	56.8	+02.4	334	55.9	+02.5	335	55.1	+02.4	18
19	347	01.0	+02.4	348	00.1	+02.5	348	59.2	+02.5	349	58.4	+02.5	350	57.5	+02.5	19
20	2	03.4	+02.5	3	02.6	+02.4	4	01.7	+02.5	5	00.9	+02.4	5	60.0	+02.5	20
21	17	05.9	+02.5	18	05.0	+02.5	19	04.2	+02.4	20	03.3	+02.5	21	02.5	+02.4	21
22	32	08.4	+02.4	33	07.5	+02.5	34	06.6	+02.5	35	05.8	+02.4	36	04.9	+02.5	22
23	47	10.8	+02.5	48	10.0	+02.4	49	09.1	+02.5	50	08.2	+02.5	51	07.4	+02.4	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	33.9	N 29	14.3	Gienah	175	43.0	S 17	41.0
Ankaa	353	06.3	S 42	09.9	Acrux	172	59.7	S 63	14.3
Schedir	349	29.9	N 56	41.1	Gacrux	171	51.3	S 57	15.1
Diphda	348	46.5	S 17	50.7	Alioth	166	12.9	N 55	49.0
Achernar	335	19.2	S 57	06.4	Spica	158	21.8	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.8	N 49	10.9
Polaris	313	12.3	N 89	22.5	Hadar	148	35.6	S 60	29.7
Acamar	315	10.8	S 40	12.0	Menkent	147	56.8	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.2	N 19	03.7
Mirfak	308	26.7	N 49	57.3	Rigel Kentaurus	139	37.0	S 60	56.6
Aldebaran	290	38.5	N 16	33.8	Zubenelgenubi	136	55.5	S 16	08.8
Capella	280	20.4	N 46	01.6	Kocab	137	20.9	N 74	02.8
Rigel	281	02.9	S 08	10.2	Alphecca	126	03.6	N 26	37.7
Bellatrix	278	21.8	N 06	22.5	Antares	112	15.5	S 26	29.3
Elnath	278	00.6	N 28	37.8	Atria	107	09.5	S 69	04.4
Alnilam	275	36.7	S 01	11.0	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.0	N 07	24.8	Shaula	96	09.8	S 37	07.4
Canopus	263	51.6	S 52	42.3	Rasalhague	95	58.3	N 12	32.6
Sirius	258	25.1	S 16	44.4	Etamin	90	42.3	N 51	29.2
Adhara	255	05.0	S 29	00.2	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.8	N 31	49.8	Vega	80	33.2	N 38	48.5
Procyon	244	49.6	N 05	10.0	Nunki	75	47.2	S 26	15.9
Pollux	243	15.9	N 27	57.8	Albireo	67	03.7	N 28	01.0
Avior	234	14.2	S 59	35.2	Altair	61	59.7	N 08	56.1
Suhail	222	45.7	S 43	31.9	Peacock	53	04.9	S 56	39.3
Miaplacidus	221	37.7	S 69	49.1	Deneb	49	25.5	N 45	22.6
Alphard	217	47.0	S 08	46.1	Enif	33	38.2	N 09	59.8
Regulus	207	33.6	N 11	50.4	Alnair	27	32.1	S 46	50.3
Dubhe	193	40.2	N 61	36.4	Formalhaut	15	13.8	S 29	29.1
Denebola	182	24.2	N 14	25.7	Markab	13	29.1	N 15	20.9

2025 - First Point of Aries / Selected Stars

UT	day 331 of 365 November 27		day 332 of 365 November 28		day 333 of 365 November 29		day 334 of 365 November 30		day 335 of 365 December 1		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	
00	66 09.8	+02.5	67 09.0	+02.5	68 08.1	+02.5	69 07.3	+02.4	70 06.4	+02.5	00
01	81 12.3	+02.5	82 11.5	+02.4	83 10.6	+02.5	84 09.7	+02.5	85 08.9	+02.4	01
02	96 14.8	+02.4	97 13.9	+02.5	98 13.1	+02.4	99 12.2	+02.5	100 11.3	+02.5	02
03	111 17.2	+02.5	112 16.4	+02.4	113 15.5	+02.5	114 14.7	+02.4	115 13.8	+02.5	03
04	126 19.7	+02.5	127 18.8	+02.5	128 18.0	+02.4	129 17.1	+02.5	130 16.3	+02.4	04
05	141 22.2	+02.4	142 21.3	+02.5	143 20.4	+02.5	144 19.6	+02.4	145 18.7	+02.5	05
06	156 24.6	+02.5	157 23.8	+02.4	158 22.9	+02.5	159 22.0	+02.5	160 21.2	+02.4	06
07	171 27.1	+02.5	172 26.2	+02.5	173 25.4	+02.4	174 24.5	+02.5	175 23.6	+02.5	07
08	186 29.6	+02.4	187 28.7	+02.5	188 27.8	+02.5	189 27.0	+02.4	190 26.1	+02.5	08
09	201 32.0	+02.5	202 31.2	+02.4	203 30.3	+02.5	204 29.4	+02.5	205 28.6	+02.4	09
10	216 34.5	+02.5	217 33.6	+02.5	218 32.8	+02.4	219 31.9	+02.5	220 31.0	+02.5	10
11	231 37.0	+02.4	232 36.1	+02.5	233 35.2	+02.5	234 34.4	+02.4	235 33.5	+02.5	11
12	246 39.4	+02.5	247 38.6	+02.4	248 37.7	+02.5	249 36.8	+02.5	250 36.0	+02.4	12
13	261 41.9	+02.4	262 41.0	+02.5	263 40.2	+02.4	264 39.3	+02.5	265 38.4	+02.5	13
14	276 44.3	+02.5	277 43.5	+02.4	278 42.6	+02.5	279 41.8	+02.4	280 40.9	+02.5	14
15	291 46.8	+02.5	292 45.9	+02.5	293 45.1	+02.5	294 44.2	+02.5	295 43.4	+02.4	15
16	306 49.3	+02.4	307 48.4	+02.5	308 47.6	+02.4	309 46.7	+02.5	310 45.8	+02.5	16
17	321 51.7	+02.5	322 50.9	+02.4	323 50.0	+02.5	324 49.2	+02.4	325 48.3	+02.5	17
18	336 54.2	+02.5	337 53.3	+02.5	338 52.5	+02.4	339 51.6	+02.5	340 50.8	+02.4	18
19	351 56.7	+02.4	352 55.8	+02.5	353 54.9	+02.5	354 54.1	+02.4	355 53.2	+02.5	19
20	6 59.1	+02.5	7 58.3	+02.4	8 57.4	+02.5	9 56.5	+02.5	10 55.7	+02.4	20
21	22 01.6	+02.5	23 00.7	+02.5	23 59.9	+02.4	24 59.0	+02.5	25 58.1	+02.5	21
22	37 04.1	+02.4	38 03.2	+02.5	39 02.3	+02.5	40 01.5	+02.4	41 00.6	+02.5	22
23	52 06.5	+02.5	53 05.7	+02.4	54 04.8	+02.5	55 03.9	+02.5	56 03.1	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 33.9	N 29 14.3	Gienah	175 43.0	S 17 41.0
Ankaa	353 06.3	S 42 09.9	Acrux	172 59.7	S 63 14.3
Schedir	349 29.9	N 56 41.1	Gacrux	171 51.2	S 57 15.1
Diphda	348 46.5	S 17 50.7	Alioth	166 12.8	N 55 48.9
Achernar	335 19.2	S 57 06.4	Spica	158 21.8	S 11 17.7
Hamal	327 50.2	N 23 35.3	Alkaid	152 51.8	N 49 10.9
Polaris	313 12.4	N 89 22.5	Hadar	148 35.5	S 60 29.7
Acamar	315 10.8	S 40 12.1	Menkent	147 56.8	S 36 29.4
Menkar	314 05.1	N 04 11.6	Arcturus	145 47.1	N 19 03.6
Mirfak	308 26.7	N 49 57.3	Rigel Kentaurus	139 36.9	S 60 56.6
Aldebaran	290 38.5	N 16 33.8	Zubenelgenubi	136 55.5	S 16 08.9
Capella	280 20.4	N 46 01.6	Kocab	137 20.9	N 74 02.7
Rigel	281 02.8	S 08 10.2	Alphecca	126 03.6	N 26 37.7
Bellatrix	278 21.8	N 06 22.5	Antares	112 15.4	S 26 29.3
Elnath	278 00.6	N 28 37.8	Atria	107 09.5	S 69 04.4
Alnilam	275 36.7	S 01 11.0	Sabik	102 02.3	S 15 45.4
Betelgeuze	270 51.0	N 07 24.8	Shaula	96 09.8	S 37 07.3
Canopus	263 51.6	S 52 42.4	Rasalhague	95 58.2	N 12 32.6
Sirius	258 25.1	S 16 44.4	Etamin	90 42.3	N 51 29.2
Adhara	255 05.0	S 29 00.2	Kaus Australis	83 31.9	S 34 22.3
Castor	245 55.8	N 31 49.8	Vega	80 33.2	N 38 48.4
Procyon	244 49.6	N 05 10.0	Nunki	75 47.2	S 26 15.9
Pollux	243 15.8	N 27 57.8	Albireo	67 03.8	N 28 01.0
Avior	234 14.1	S 59 35.3	Altair	61 59.7	N 08 56.1
Suhail	222 45.6	S 43 32.0	Peacock	53 04.9	S 56 39.3
Miaplacidus	221 37.7	S 69 49.1	Deneb	49 25.5	N 45 22.6
Alphard	217 47.0	S 08 46.2	Enif	33 38.2	N 09 59.7
Regulus	207 33.5	N 11 50.4	Alnair	27 32.1	S 46 50.3
Dubhe	193 40.1	N 61 36.4	Formalhaut	15 13.8	S 29 29.1
Denebola	182 24.1	N 14 25.6	Markab	13 29.2	N 15 20.9

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UT	day 336 of 365		day 337 of 365		day 338 of 365		day 339 of 365		day 340 of 365		UT					
	<i>December 2</i>		<i>December 3</i>		<i>December 4</i>		<i>December 5</i>		<i>December 6</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	71	05.5	+02.5	72	04.7	+02.4	73	03.8	+02.5	74	03.0	+02.4	75	02.1	+02.5	00
01	86	08.0	+02.5	87	07.1	+02.5	88	06.3	+02.4	89	05.4	+02.5	90	04.6	+02.4	01
02	101	10.5	+02.4	102	09.6	+02.5	103	08.7	+02.5	104	07.9	+02.5	105	07.0	+02.5	02
03	116	12.9	+02.5	117	12.1	+02.4	118	11.2	+02.5	119	10.4	+02.4	120	09.5	+02.5	03
04	131	15.4	+02.5	132	14.5	+02.5	133	13.7	+02.4	134	12.8	+02.5	135	12.0	+02.4	04
05	146	17.9	+02.4	147	17.0	+02.5	148	16.1	+02.5	149	15.3	+02.4	150	14.4	+02.5	05
06	161	20.3	+02.5	162	19.5	+02.4	163	18.6	+02.5	164	17.7	+02.5	165	16.9	+02.5	06
07	176	22.8	+02.5	177	21.9	+02.5	178	21.1	+02.4	179	20.2	+02.5	180	19.4	+02.4	07
08	191	25.3	+02.4	192	24.4	+02.5	193	23.5	+02.5	194	22.7	+02.4	195	21.8	+02.5	08
09	206	27.7	+02.5	207	26.9	+02.4	208	26.0	+02.5	209	25.1	+02.5	210	24.3	+02.4	09
10	221	30.2	+02.4	222	29.3	+02.5	223	28.5	+02.4	224	27.6	+02.5	225	26.7	+02.5	10
11	236	32.6	+02.5	237	31.8	+02.4	238	30.9	+02.5	239	30.1	+02.4	240	29.2	+02.5	11
12	251	35.1	+02.5	252	34.2	+02.5	253	33.4	+02.5	254	32.5	+02.5	255	31.7	+02.4	12
13	266	37.6	+02.4	267	36.7	+02.5	268	35.9	+02.4	269	35.0	+02.5	270	34.1	+02.5	13
14	281	40.0	+02.5	282	39.2	+02.4	283	38.3	+02.5	284	37.5	+02.4	285	36.6	+02.5	14
15	296	42.5	+02.5	297	41.6	+02.5	298	40.8	+02.4	299	39.9	+02.5	300	39.1	+02.4	15
16	311	45.0	+02.4	312	44.1	+02.5	313	43.2	+02.5	314	42.4	+02.5	315	41.5	+02.5	16
17	326	47.4	+02.5	327	46.6	+02.4	328	45.7	+02.5	329	44.9	+02.4	330	44.0	+02.5	17
18	341	49.9	+02.5	342	49.0	+02.5	343	48.2	+02.4	344	47.3	+02.5	345	46.5	+02.4	18
19	356	52.4	+02.4	357	51.5	+02.5	358	50.6	+02.5	359	49.8	+02.4	0	48.9	+02.5	19
20	11	54.8	+02.5	12	54.0	+02.4	13	53.1	+02.5	14	52.2	+02.5	15	51.4	+02.5	20
21	26	57.3	+02.5	27	56.4	+02.5	28	55.6	+02.4	29	54.7	+02.5	30	53.9	+02.4	21
22	41	59.8	+02.4	42	58.9	+02.5	43	58.0	+02.5	44	57.2	+02.4	45	56.3	+02.5	22
23	57	02.2	+02.5	58	01.4	+02.4	59	00.5	+02.5	59	59.6	+02.5	60	58.8	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	33.9	N 29	14.3	Gienah	175	42.9	S 17	41.0
Ankaa	353	06.3	S 42	09.9	Acrux	172	59.6	S 63	14.3
Schedir	349	30.0	N 56	41.1	Gacrux	171	51.2	S 57	15.1
Diphda	348	46.5	S 17	50.7	Alioth	166	12.8	N 55	48.9
Achernar	335	19.3	S 57	06.4	Spica	158	21.7	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.7	N 49	10.8
Polaris	313	13.0	N 89	22.5	Hadar	148	35.5	S 60	29.7
Acamar	315	10.8	S 40	12.1	Menkent	147	56.8	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.1	N 19	03.6
Mirfak	308	26.7	N 49	57.3	Rigel Kentaurus	139	36.9	S 60	56.6
Aldebaran	290	38.5	N 16	33.8	Zubenelgenubi	136	55.5	S 16	08.9
Capella	280	20.4	N 46	01.6	Kocab	137	20.8	N 74	02.7
Rigel	281	02.8	S 08	10.2	Alphecca	126	03.5	N 26	37.6
Bellatrix	278	21.8	N 06	22.5	Antares	112	15.4	S 26	29.3
Elnath	278	00.6	N 28	37.8	Atria	107	09.5	S 69	04.4
Alnilam	275	36.7	S 01	11.1	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.0	N 07	24.8	Shaula	96	09.8	S 37	07.3
Canopus	263	51.6	S 52	42.4	Rasalhague	95	58.3	N 12	32.6
Sirius	258	25.1	S 16	44.5	Etamin	90	42.4	N 51	29.2
Adhara	255	05.0	S 29	00.3	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.8	N 31	49.8	Vega	80	33.2	N 38	48.4
Procyon	244	49.6	N 05	10.0	Nunki	75	47.2	S 26	15.9
Pollux	243	15.8	N 27	57.8	Albireo	67	03.8	N 28	01.0
Avior	234	14.1	S 59	35.3	Altair	61	59.7	N 08	56.1
Suhail	222	45.6	S 43	32.0	Peacock	53	04.9	S 56	39.2
Miaplacidus	221	37.6	S 69	49.1	Deneb	49	25.6	N 45	22.6
Alphard	217	46.9	S 08	46.2	Enif	33	38.2	N 09	59.7
Regulus	207	33.5	N 11	50.4	Alnair	27	32.1	S 46	50.3
Dubhe	193	40.0	N 61	36.4	Formalhaut	15	13.8	S 29	29.1
Denebola	182	24.1	N 14	25.6	Markab	13	29.2	N 15	20.9

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UT	day 341 of 365			day 342 of 365			day 343 of 365			day 344 of 365			day 345 of 365			UT		
	<i>December 7</i>			<i>December 8</i>			<i>December 9</i>			<i>December 10</i>			<i>December 11</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	76	01.2	+02.5	77	00.4	+02.5	77	59.5	+02.5	78	58.7	+02.4	79	57.8	+02.5	00		
01	91	03.7	+02.5	92	02.9	+02.4	93	02.0	+02.5	94	01.1	+02.5	95	00.3	+02.4	01		
02	106	06.2	+02.4	107	05.3	+02.5	108	04.5	+02.4	109	03.6	+02.5	110	02.7	+02.5	02		
03	121	08.6	+02.5	122	07.8	+02.4	123	06.9	+02.5	124	06.1	+02.4	125	05.2	+02.5	03		
04	136	11.1	+02.5	137	10.2	+02.5	138	09.4	+02.4	139	08.5	+02.5	140	07.7	+02.4	04		
05	151	13.6	+02.4	152	12.7	+02.5	153	11.8	+02.5	154	11.0	+02.5	155	10.1	+02.5	05		
06	166	16.0	+02.5	167	15.2	+02.4	168	14.3	+02.5	169	13.5	+02.4	170	12.6	+02.5	06		
07	181	18.5	+02.5	182	17.6	+02.5	183	16.8	+02.4	184	15.9	+02.5	185	15.1	+02.4	07		
08	196	21.0	+02.4	197	20.1	+02.5	198	19.2	+02.5	199	18.4	+02.4	200	17.5	+02.5	08		
09	211	23.4	+02.5	212	22.6	+02.4	213	21.7	+02.5	214	20.8	+02.5	215	20.0	+02.4	09		
10	226	25.9	+02.5	227	25.0	+02.5	228	24.2	+02.4	229	23.3	+02.5	230	22.4	+02.5	10		
11	241	28.4	+02.4	242	27.5	+02.5	243	26.6	+02.5	244	25.8	+02.4	245	24.9	+02.5	11		
12	256	30.8	+02.5	257	30.0	+02.4	258	29.1	+02.5	259	28.2	+02.5	260	27.4	+02.4	12		
13	271	33.3	+02.4	272	32.4	+02.5	273	31.6	+02.4	274	30.7	+02.5	275	29.8	+02.5	13		
14	286	35.7	+02.5	287	34.9	+02.5	288	34.0	+02.5	289	33.2	+02.4	290	32.3	+02.5	14		
15	301	38.2	+02.5	302	37.4	+02.4	303	36.5	+02.5	304	35.6	+02.5	305	34.8	+02.4	15		
16	316	40.7	+02.4	317	39.8	+02.5	318	39.0	+02.4	319	38.1	+02.5	320	37.2	+02.5	16		
17	331	43.1	+02.5	332	42.3	+02.4	333	41.4	+02.5	334	40.6	+02.4	335	39.7	+02.5	17		
18	346	45.6	+02.5	347	44.7	+02.5	348	43.9	+02.4	349	43.0	+02.5	350	42.2	+02.4	18		
19	1	48.1	+02.4	2	47.2	+02.5	3	46.3	+02.5	4	45.5	+02.4	5	44.6	+02.5	19		
20	16	50.5	+02.5	17	49.7	+02.4	18	48.8	+02.5	19	47.9	+02.5	20	47.1	+02.5	20		
21	31	53.0	+02.5	32	52.1	+02.5	33	51.3	+02.4	34	50.4	+02.5	35	49.6	+02.4	21		
22	46	55.5	+02.4	47	54.6	+02.5	48	53.7	+02.5	49	52.9	+02.4	50	52.0	+02.5	22		
23	61	57.9	+02.5	62	57.1	+02.4	63	56.2	+02.5	64	55.3	+02.5	65	54.5	+02.4	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.3	Gienah	175	42.9	S 17	41.1
Ankaa	353	06.4	S 42	09.9	Acrux	172	59.5	S 63	14.3
Schedir	349	30.0	N 56	41.1	Gacrux	171	51.1	S 57	15.1
Diphda	348	46.5	S 17	50.7	Alioth	166	12.7	N 55	48.9
Achernar	335	19.3	S 57	06.5	Spica	158	21.7	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.7	N 49	10.8
Polaris	313	13.1	N 89	22.6	Hadar	148	35.4	S 60	29.7
Acamar	315	10.8	S 40	12.1	Menkent	147	56.7	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.1	N 19	03.6
Mirfak	308	26.7	N 49	57.3	Rigel Kentaurus	139	36.8	S 60	56.6
Aldebaran	290	38.4	N 16	33.8	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	20.3	N 46	01.6	Kocab	137	20.8	N 74	02.7
Rigel	281	02.8	S 08	10.2	Alphecca	126	03.5	N 26	37.6
Bellatrix	278	21.7	N 06	22.4	Antares	112	15.4	S 26	29.3
Elnath	278	00.5	N 28	37.8	Atria	107	09.4	S 69	04.4
Alnilam	275	36.6	S 01	11.1	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	51.0	N 07	24.7	Shaula	96	09.8	S 37	07.3
Canopus	263	51.5	S 52	42.4	Rasalhague	95	58.2	N 12	32.6
Sirius	258	25.0	S 16	44.5	Etamin	90	42.4	N 51	29.2
Adhara	255	04.9	S 29	00.3	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.7	N 31	49.8	Vega	80	33.2	N 38	48.4
Procyon	244	49.5	N 05	09.9	Nunki	75	47.2	S 26	15.9
Pollux	243	15.7	N 27	57.7	Albireo	67	03.8	N 28	00.9
Avior	234	14.0	S 59	35.3	Altair	61	59.7	N 08	56.1
Suhail	222	45.5	S 43	32.0	Peacock	53	05.0	S 56	39.2
Miaplacidus	221	37.5	S 69	49.1	Deneb	49	25.6	N 45	22.6
Alphard	217	46.9	S 08	46.2	Enif	33	38.2	N 09	59.7
Regulus	207	33.4	N 11	50.4	Alnair	27	32.2	S 46	50.3
Dubhe	193	40.0	N 61	36.4	Formalhaut	15	13.8	S 29	29.1
Denebola	182	24.1	N 14	25.6	Markab	13	29.2	N 15	20.9

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UT	day 346 of 365		day 347 of 365		day 348 of 365		day 349 of 365		day 350 of 365		UT					
	<i>December 12</i>		<i>December 13</i>		<i>December 14</i>		<i>December 15</i>		<i>December 16</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	80	56.9	+02.5	81	56.1	+02.4	82	55.2	+02.5	83	54.4	+02.4	84	53.5	+02.5	00
01	95	59.4	+02.5	96	58.5	+02.5	97	57.7	+02.4	98	56.8	+02.5	99	56.0	+02.4	01
02	111	01.9	+02.4	112	01.0	+02.5	113	00.1	+02.5	113	59.3	+02.5	114	58.4	+02.5	02
03	126	04.3	+02.5	127	03.5	+02.4	128	02.6	+02.5	129	01.8	+02.4	130	00.9	+02.5	03
04	141	06.8	+02.5	142	05.9	+02.5	143	05.1	+02.4	144	04.2	+02.5	145	03.4	+02.4	04
05	156	09.3	+02.4	157	08.4	+02.5	158	07.5	+02.5	159	06.7	+02.4	160	05.8	+02.5	05
06	171	11.7	+02.5	172	10.9	+02.4	173	10.0	+02.5	174	09.1	+02.5	175	08.3	+02.4	06
07	186	14.2	+02.5	187	13.3	+02.5	188	12.5	+02.4	189	11.6	+02.5	190	10.7	+02.5	07
08	201	16.7	+02.4	202	15.8	+02.5	203	14.9	+02.5	204	14.1	+02.4	205	13.2	+02.5	08
09	216	19.1	+02.5	217	18.3	+02.4	218	17.4	+02.5	219	16.5	+02.5	220	15.7	+02.4	09
10	231	21.6	+02.4	232	20.7	+02.5	233	19.9	+02.4	234	19.0	+02.5	235	18.1	+02.5	10
11	246	24.0	+02.5	247	23.2	+02.5	248	22.3	+02.5	249	21.5	+02.4	250	20.6	+02.5	11
12	261	26.5	+02.5	262	25.7	+02.4	263	24.8	+02.5	264	23.9	+02.5	265	23.1	+02.4	12
13	276	29.0	+02.4	277	28.1	+02.5	278	27.3	+02.4	279	26.4	+02.5	280	25.5	+02.5	13
14	291	31.4	+02.5	292	30.6	+02.4	293	29.7	+02.5	294	28.9	+02.4	295	28.0	+02.5	14
15	306	33.9	+02.5	307	33.0	+02.5	308	32.2	+02.4	309	31.3	+02.5	310	30.5	+02.4	15
16	321	36.4	+02.4	322	35.5	+02.5	323	34.6	+02.5	324	33.8	+02.4	325	32.9	+02.5	16
17	336	38.8	+02.5	337	38.0	+02.4	338	37.1	+02.5	339	36.2	+02.5	340	35.4	+02.5	17
18	351	41.3	+02.5	352	40.4	+02.5	353	39.6	+02.4	354	38.7	+02.5	355	37.9	+02.4	18
19	6	43.8	+02.4	7	42.9	+02.5	8	42.0	+02.5	9	41.2	+02.4	10	40.3	+02.5	19
20	21	46.2	+02.5	22	45.4	+02.4	23	44.5	+02.5	24	43.6	+02.5	25	42.8	+02.4	20
21	36	48.7	+02.5	37	47.8	+02.5	38	47.0	+02.4	39	46.1	+02.5	40	45.2	+02.5	21
22	51	51.2	+02.4	52	50.3	+02.5	53	49.4	+02.5	54	48.6	+02.4	55	47.7	+02.5	22
23	66	53.6	+02.5	67	52.8	+02.4	68	51.9	+02.5	69	51.0	+02.5	70	50.2	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.3	Gienah	175	42.8	S 17	41.1
Ankaa	353	06.4	S 42	09.9	Acrux	172	59.4	S 63	14.3
Schedir	349	30.0	N 56	41.1	Gacrux	171	51.0	S 57	15.1
Diphda	348	46.5	S 17	50.7	Alioth	166	12.6	N 55	48.9
Achernar	335	19.3	S 57	06.5	Spica	158	21.7	S 11	17.7
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.6	N 49	10.8
Polaris	313	14.1	N 89	22.6	Hadar	148	35.4	S 60	29.7
Acamar	315	10.8	S 40	12.1	Menkent	147	56.7	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.0	N 19	03.6
Mirfak	308	26.7	N 49	57.4	Rigel Kentaurus	139	36.7	S 60	56.6
Aldebaran	290	38.4	N 16	33.8	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	20.3	N 46	01.6	Kocab	137	20.7	N 74	02.6
Rigel	281	02.8	S 08	10.3	Alphecca	126	03.5	N 26	37.6
Bellatrix	278	21.7	N 06	22.4	Antares	112	15.4	S 26	29.3
Elnath	278	00.5	N 28	37.9	Atria	107	09.4	S 69	04.4
Alnilam	275	36.6	S 01	11.1	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	50.9	N 07	24.7	Shaula	96	09.8	S 37	07.3
Canopus	263	51.5	S 52	42.4	Rasalhague	95	58.2	N 12	32.6
Sirius	258	25.0	S 16	44.5	Etamin	90	42.4	N 51	29.1
Adhara	255	04.9	S 29	00.3	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.7	N 31	49.8	Vega	80	33.2	N 38	48.4
Procyon	244	49.5	N 05	09.9	Nunki	75	47.2	S 26	15.9
Pollux	243	15.7	N 27	57.7	Albireo	67	03.8	N 28	00.9
Avior	234	14.0	S 59	35.3	Altair	61	59.7	N 08	56.1
Suhail	222	45.5	S 43	32.0	Peacock	53	05.0	S 56	39.2
Miaplacidus	221	37.4	S 69	49.2	Deneb	49	25.6	N 45	22.6
Alphard	217	46.8	S 08	46.2	Enif	33	38.2	N 09	59.7
Regulus	207	33.4	N 11	50.4	Alnair	27	32.2	S 46	50.2
Dubhe	193	39.9	N 61	36.3	Formalhaut	15	13.9	S 29	29.1
Denebola	182	24.0	N 14	25.6	Markab	13	29.2	N 15	20.8

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UT	day 351 of 365		day 352 of 365		day 353 of 365		day 354 of 365		day 355 of 365		UT					
	<i>December 17</i>		<i>December 18</i>		<i>December 19</i>		<i>December 20</i>		<i>December 21</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	85	52.6	+02.5	86	51.8	+02.4	87	50.9	+02.5	88	50.1	+02.4	89	49.2	+02.5	00
01	100	55.1	+02.5	101	54.2	+02.5	102	53.4	+02.4	103	52.5	+02.5	104	51.7	+02.4	01
02	115	57.6	+02.4	116	56.7	+02.5	117	55.8	+02.5	118	55.0	+02.5	119	54.1	+02.5	02
03	131	00.0	+02.5	131	59.2	+02.4	132	58.3	+02.5	133	57.5	+02.4	134	56.6	+02.5	03
04	146	02.5	+02.5	147	01.6	+02.5	148	00.8	+02.4	148	59.9	+02.5	149	59.1	+02.4	04
05	161	05.0	+02.4	162	04.1	+02.5	163	03.2	+02.5	164	02.4	+02.4	165	01.5	+02.5	05
06	176	07.4	+02.5	177	06.6	+02.4	178	05.7	+02.5	179	04.8	+02.5	180	04.0	+02.4	06
07	191	09.9	+02.5	192	09.0	+02.5	193	08.2	+02.4	194	07.3	+02.5	195	06.4	+02.5	07
08	206	12.4	+02.4	207	11.5	+02.5	208	10.6	+02.5	209	09.8	+02.4	210	08.9	+02.5	08
09	221	14.8	+02.5	222	14.0	+02.4	223	13.1	+02.5	224	12.2	+02.5	225	11.4	+02.4	09
10	236	17.3	+02.4	237	16.4	+02.5	238	15.6	+02.4	239	14.7	+02.5	240	13.8	+02.5	10
11	251	19.7	+02.5	252	18.9	+02.4	253	18.0	+02.5	254	17.2	+02.4	255	16.3	+02.5	11
12	266	22.2	+02.5	267	21.3	+02.5	268	20.5	+02.5	269	19.6	+02.5	270	18.8	+02.4	12
13	281	24.7	+02.4	282	23.8	+02.5	283	23.0	+02.4	284	22.1	+02.5	285	21.2	+02.5	13
14	296	27.1	+02.5	297	26.3	+02.4	298	25.4	+02.5	299	24.6	+02.4	300	23.7	+02.5	14
15	311	29.6	+02.5	312	28.7	+02.5	313	27.9	+02.4	314	27.0	+02.5	315	26.2	+02.4	15
16	326	32.1	+02.4	327	31.2	+02.5	328	30.3	+02.5	329	29.5	+02.5	330	28.6	+02.5	16
17	341	34.5	+02.5	342	33.7	+02.4	343	32.8	+02.5	344	32.0	+02.4	345	31.1	+02.5	17
18	356	37.0	+02.5	357	36.1	+02.5	358	35.3	+02.4	359	34.4	+02.5	0	33.6	+02.4	18
19	11	39.5	+02.4	12	38.6	+02.5	13	37.7	+02.5	14	36.9	+02.4	15	36.0	+02.5	19
20	26	41.9	+02.5	27	41.1	+02.4	28	40.2	+02.5	29	39.3	+02.5	30	38.5	+02.4	20
21	41	44.4	+02.4	42	43.5	+02.5	43	42.7	+02.4	44	41.8	+02.5	45	40.9	+02.5	21
22	56	46.8	+02.5	57	46.0	+02.5	58	45.1	+02.5	59	44.3	+02.4	60	43.4	+02.5	22
23	71	49.3	+02.5	72	48.5	+02.4	73	47.6	+02.5	74	46.7	+02.5	75	45.9	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.3	Gienah	175	42.8	S 17	41.1
Ankaa	353	06.4	S 42	09.9	Acrux	172	59.4	S 63	14.3
Schedir	349	30.0	N 56	41.1	Gacrux	171	51.0	S 57	15.1
Diphda	348	46.5	S 17	50.7	Alioth	166	12.6	N 55	48.8
Achernar	335	19.4	S 57	06.5	Spica	158	21.6	S 11	17.8
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.6	N 49	10.8
Polaris	313	15.1	N 89	22.6	Hadar	148	35.3	S 60	29.6
Acamar	315	10.8	S 40	12.1	Menkent	147	56.6	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.0	N 19	03.6
Mirfak	308	26.7	N 49	57.4	Rigel Kentaurus	139	36.7	S 60	56.5
Aldebaran	290	38.4	N 16	33.8	Zubenelgenubi	136	55.4	S 16	08.9
Capella	280	20.3	N 46	01.6	Kocab	137	20.7	N 74	02.6
Rigel	281	02.8	S 08	10.3	Alphecca	126	03.5	N 26	37.6
Bellatrix	278	21.7	N 06	22.4	Antares	112	15.4	S 26	29.3
Elnath	278	00.5	N 28	37.9	Atria	107	09.4	S 69	04.3
Alnilam	275	36.6	S 01	11.1	Sabik	102	02.3	S 15	45.4
Betelgeuze	270	50.9	N 07	24.7	Shaula	96	09.7	S 37	07.3
Canopus	263	51.5	S 52	42.5	Rasalhague	95	58.2	N 12	32.5
Sirius	258	25.0	S 16	44.5	Etamin	90	42.4	N 51	29.1
Adhara	255	04.9	S 29	00.3	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.6	N 31	49.8	Vega	80	33.2	N 38	48.4
Procyon	244	49.5	N 05	09.9	Nunki	75	47.2	S 26	15.9
Pollux	243	15.7	N 27	57.7	Albireo	67	03.8	N 28	00.9
Avior	234	13.9	S 59	35.4	Altair	61	59.7	N 08	56.1
Suhail	222	45.4	S 43	32.0	Peacock	53	05.0	S 56	39.2
Miaplacidus	221	37.3	S 69	49.2	Deneb	49	25.6	N 45	22.5
Alphard	217	46.8	S 08	46.2	Enif	33	38.2	N 09	59.7
Regulus	207	33.4	N 11	50.3	Alnair	27	32.2	S 46	50.2
Dubhe	193	39.8	N 61	36.3	Formalhaut	15	13.9	S 29	29.1
Denebola	182	24.0	N 14	25.6	Markab	13	29.2	N 15	20.8

2025 - First Point of Aries / Selected Stars

UT	day 356 of 365		day 357 of 365		day 358 of 365		day 359 of 365		day 360 of 365		UT					
	<i>December 22</i>		<i>December 23</i>		<i>December 24</i>		<i>December 25</i>		<i>December 26</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	90	48.3	+02.5	91	47.5	+02.4	92	46.6	+02.5	93	45.8	+02.4	94	44.9	+02.5	00
01	105	50.8	+02.5	106	49.9	+02.5	107	49.1	+02.5	108	48.2	+02.5	109	47.4	+02.4	01
02	120	53.3	+02.4	121	52.4	+02.5	122	51.6	+02.4	123	50.7	+02.5	124	49.8	+02.5	02
03	135	55.7	+02.5	136	54.9	+02.4	137	54.0	+02.5	138	53.2	+02.4	139	52.3	+02.5	03
04	150	58.2	+02.5	151	57.3	+02.5	152	56.5	+02.4	153	55.6	+02.5	154	54.8	+02.4	04
05	166	00.7	+02.4	166	59.8	+02.5	167	58.9	+02.5	168	58.1	+02.4	169	57.2	+02.5	05
06	181	03.1	+02.5	182	02.3	+02.4	183	01.4	+02.5	184	00.5	+02.5	184	59.7	+02.4	06
07	196	05.6	+02.5	197	04.7	+02.5	198	03.9	+02.4	199	03.0	+02.5	200	02.1	+02.5	07
08	211	08.1	+02.4	212	07.2	+02.5	213	06.3	+02.5	214	05.5	+02.4	215	04.6	+02.5	08
09	226	10.5	+02.5	227	09.7	+02.4	228	08.8	+02.5	229	07.9	+02.5	230	07.1	+02.4	09
10	241	13.0	+02.4	242	12.1	+02.5	243	11.3	+02.4	244	10.4	+02.5	245	09.5	+02.5	10
11	256	15.4	+02.5	257	14.6	+02.5	258	13.7	+02.5	259	12.9	+02.4	260	12.0	+02.5	11
12	271	17.9	+02.5	272	17.1	+02.4	273	16.2	+02.5	274	15.3	+02.5	275	14.5	+02.4	12
13	286	20.4	+02.4	287	19.5	+02.5	288	18.7	+02.4	289	17.8	+02.5	290	16.9	+02.5	13
14	301	22.8	+02.5	302	22.0	+02.4	303	21.1	+02.5	304	20.3	+02.4	305	19.4	+02.5	14
15	316	25.3	+02.5	317	24.4	+02.5	318	23.6	+02.4	319	22.7	+02.5	320	21.9	+02.4	15
16	331	27.8	+02.4	332	26.9	+02.5	333	26.0	+02.5	334	25.2	+02.5	335	24.3	+02.5	16
17	346	30.2	+02.5	347	29.4	+02.4	348	28.5	+02.5	349	27.7	+02.4	350	26.8	+02.5	17
18	1	32.7	+02.5	2	31.8	+02.5	3	31.0	+02.4	4	30.1	+02.5	5	29.3	+02.4	18
19	16	35.2	+02.4	17	34.3	+02.5	18	33.4	+02.5	19	32.6	+02.4	20	31.7	+02.5	19
20	31	37.6	+02.5	32	36.8	+02.4	33	35.9	+02.5	34	35.0	+02.5	35	34.2	+02.4	20
21	46	40.1	+02.5	47	39.2	+02.5	48	38.4	+02.4	49	37.5	+02.5	50	36.6	+02.5	21
22	61	42.6	+02.4	62	41.7	+02.5	63	40.8	+02.5	64	40.0	+02.4	65	39.1	+02.5	22
23	76	45.0	+02.5	77	44.2	+02.4	78	43.3	+02.5	79	42.4	+02.5	80	41.6	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.3	Gienah	175	42.7	S 17	41.1
Ankaa	353	06.4	S 42	09.9	Acrux	172	59.3	S 63	14.3
Schedir	349	30.1	N 56	41.1	Gacrux	171	50.9	S 57	15.2
Diphda	348	46.5	S 17	50.7	Alioth	166	12.5	N 55	48.8
Achernar	335	19.4	S 57	06.5	Spica	158	21.6	S 11	17.8
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.6	N 49	10.7
Polaris	313	16.1	N 89	22.7	Hadar	148	35.2	S 60	29.6
Acamar	315	10.8	S 40	12.2	Menkent	147	56.6	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	47.0	N 19	03.5
Mirfak	308	26.7	N 49	57.4	Rigel Kentaurus	139	36.6	S 60	56.5
Aldebaran	290	38.4	N 16	33.8	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	20.3	N 46	01.7	Kocab	137	20.6	N 74	02.6
Rigel	281	02.8	S 08	10.3	Alphecca	126	03.4	N 26	37.5
Bellatrix	278	21.7	N 06	22.4	Antares	112	15.3	S 26	29.3
Elnath	278	00.5	N 28	37.9	Atria	107	09.3	S 69	04.3
Alnilam	275	36.6	S 01	11.1	Sabik	102	02.2	S 15	45.5
Betelgeuze	270	50.9	N 07	24.7	Shaula	96	09.7	S 37	07.3
Canopus	263	51.5	S 52	42.5	Rasalhague	95	58.2	N 12	32.5
Sirius	258	25.0	S 16	44.6	Etamin	90	42.4	N 51	29.1
Adhara	255	04.9	S 29	00.4	Kaus Australis	83	31.9	S 34	22.3
Castor	245	55.6	N 31	49.8	Vega	80	33.2	N 38	48.3
Procyon	244	49.4	N 05	09.9	Nunki	75	47.2	S 26	15.9
Pollux	243	15.6	N 27	57.7	Albireo	67	03.8	N 28	00.9
Avior	234	13.9	S 59	35.4	Altair	61	59.7	N 08	56.1
Suhail	222	45.4	S 43	32.1	Peacock	53	05.0	S 56	39.2
Miaplacidus	221	37.3	S 69	49.2	Deneb	49	25.6	N 45	22.5
Alphard	217	46.8	S 08	46.3	Enif	33	38.2	N 09	59.7
Regulus	207	33.3	N 11	50.3	Alnair	27	32.2	S 46	50.2
Dubhe	193	39.7	N 61	36.3	Formalhaut	15	13.9	S 29	29.1
Denebola	182	23.9	N 14	25.5	Markab	13	29.2	N 15	20.8

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UT	day 361 of 365		day 362 of 365		day 363 of 365		day 364 of 365		day 365 of 365		UT					
	<i>December 27</i>		<i>December 28</i>		<i>December 29</i>		<i>December 30</i>		<i>December 31</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	95	44.0	+02.5	96	43.2	+02.4	97	42.3	+02.5	98	41.5	+02.4	99	40.6	+02.5	00
01	110	46.5	+02.5	111	45.6	+02.5	112	44.8	+02.4	113	43.9	+02.5	114	43.1	+02.4	01
02	125	49.0	+02.4	126	48.1	+02.5	127	47.2	+02.5	128	46.4	+02.4	129	45.5	+02.5	02
03	140	51.4	+02.5	141	50.6	+02.4	142	49.7	+02.5	143	48.8	+02.5	144	48.0	+02.4	03
04	155	53.9	+02.5	156	53.0	+02.5	157	52.2	+02.4	158	51.3	+02.5	159	50.4	+02.5	04
05	170	56.4	+02.4	171	55.5	+02.5	172	54.6	+02.5	173	53.8	+02.4	174	52.9	+02.5	05
06	185	58.8	+02.5	186	58.0	+02.4	187	57.1	+02.5	188	56.2	+02.5	189	55.4	+02.4	06
07	201	01.3	+02.5	202	00.4	+02.5	202	59.6	+02.4	203	58.7	+02.5	204	57.8	+02.5	07
08	216	03.8	+02.4	217	02.9	+02.5	218	02.0	+02.5	219	01.2	+02.4	220	00.3	+02.5	08
09	231	06.2	+02.5	232	05.4	+02.4	233	04.5	+02.5	234	03.6	+02.5	235	02.8	+02.4	09
10	246	08.7	+02.4	247	07.8	+02.5	248	07.0	+02.4	249	06.1	+02.5	250	05.2	+02.5	10
11	261	11.1	+02.5	262	10.3	+02.4	263	09.4	+02.5	264	08.6	+02.4	265	07.7	+02.5	11
12	276	13.6	+02.5	277	12.7	+02.5	278	11.9	+02.4	279	11.0	+02.5	280	10.2	+02.4	12
13	291	16.1	+02.4	292	15.2	+02.5	293	14.3	+02.5	294	13.5	+02.5	295	12.6	+02.5	13
14	306	18.5	+02.5	307	17.7	+02.4	308	16.8	+02.5	309	16.0	+02.4	310	15.1	+02.5	14
15	321	21.0	+02.5	322	20.1	+02.5	323	19.3	+02.4	324	18.4	+02.5	325	17.6	+02.4	15
16	336	23.5	+02.4	337	22.6	+02.5	338	21.7	+02.5	339	20.9	+02.4	340	20.0	+02.5	16
17	351	25.9	+02.5	352	25.1	+02.4	353	24.2	+02.5	354	23.3	+02.5	355	22.5	+02.4	17
18	6	28.4	+02.5	7	27.5	+02.5	8	26.7	+02.4	9	25.8	+02.5	10	24.9	+02.5	18
19	21	30.9	+02.4	22	30.0	+02.5	23	29.1	+02.5	24	28.3	+02.4	25	27.4	+02.5	19
20	36	33.3	+02.5	37	32.5	+02.4	38	31.6	+02.5	39	30.7	+02.5	40	29.9	+02.4	20
21	51	35.8	+02.4	52	34.9	+02.5	53	34.1	+02.4	54	33.2	+02.5	55	32.3	+02.5	21
22	66	38.2	+02.5	67	37.4	+02.4	68	36.5	+02.5	69	35.7	+02.4	70	34.8	+02.5	22
23	81	40.7	+02.5	82	39.8	+02.5	83	39.0	+02.5	84	38.1	+02.5	85	37.3	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.0	N 29	14.3	Gienah	175	42.7	S 17	41.1
Ankaa	353	06.5	S 42	09.9	Acrux	172	59.2	S 63	14.3
Schedir	349	30.1	N 56	41.1	Gacrux	171	50.8	S 57	15.2
Diphda	348	46.5	S 17	50.7	Alioth	166	12.5	N 55	48.8
Achernar	335	19.4	S 57	06.5	Spica	158	21.5	S 11	17.8
Hamal	327	50.2	N 23	35.3	Alkaid	152	51.5	N 49	10.7
Polaris	313	17.8	N 89	22.7	Hadar	148	35.2	S 60	29.6
Acamar	315	10.8	S 40	12.2	Menkent	147	56.5	S 36	29.4
Menkar	314	05.1	N 04	11.6	Arcturus	145	46.9	N 19	03.5
Mirfak	308	26.7	N 49	57.4	Rigel Kentaurus	139	36.5	S 60	56.5
Aldebaran	290	38.4	N 16	33.8	Zubenelgenubi	136	55.3	S 16	08.9
Capella	280	20.3	N 46	01.7	Kocab	137	20.5	N 74	02.6
Rigel	281	02.8	S 08	10.3	Alphecca	126	03.4	N 26	37.5
Bellatrix	278	21.7	N 06	22.4	Antares	112	15.3	S 26	29.3
Elnath	278	00.5	N 28	37.9	Atria	107	09.3	S 69	04.3
Alnilam	275	36.6	S 01	11.1	Sabik	102	02.2	S 15	45.5
Betelgeuze	270	50.9	N 07	24.7	Shaula	96	09.7	S 37	07.3
Canopus	263	51.5	S 52	42.5	Rasalhague	95	58.2	N 12	32.5
Sirius	258	25.0	S 16	44.6	Etamin	90	42.4	N 51	29.0
Adhara	255	04.8	S 29	00.4	Kaus Australis	83	31.8	S 34	22.3
Castor	245	55.6	N 31	49.8	Vega	80	33.2	N 38	48.3
Procyon	244	49.4	N 05	09.9	Nunki	75	47.1	S 26	15.9
Pollux	243	15.6	N 27	57.7	Albireo	67	03.8	N 28	00.9
Avior	234	13.8	S 59	35.4	Altair	61	59.7	N 08	56.1
Suhail	222	45.4	S 43	32.1	Peacock	53	05.0	S 56	39.2
Miaplacidus	221	37.2	S 69	49.2	Deneb	49	25.7	N 45	22.5
Alphard	217	46.7	S 08	46.3	Enif	33	38.2	N 09	59.7
Regulus	207	33.3	N 11	50.3	Alnair	27	32.2	S 46	50.2
Dubhe	193	39.7	N 61	36.3	Formalhaut	15	13.9	S 29	29.1
Denebola	182	23.9	N 14	25.5	Markab	13	29.2	N 15	20.8

Polaris (Pole Star) Tables, 2025

For determining Latitude from Sextant Altitude and for Azimuth

LHA ARIES	000° - 009°	010° - 019°	020° - 029°	030° - 039°	040° - 049°	050° - 059°	060° - 069°	070° - 079°	080° - 089°	090° - 099°	100° - 109°	110° - 119°
	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
0	0 32.9	0 28.6	0 25.2	0 22.8	0 21.5	0 21.4	0 22.4	0 24.5	0 27.7	0 31.8	0 36.8	0 42.4
1	0 32.4	0 28.2	0 24.9	0 22.6	0 21.4	0 21.4	0 22.6	0 24.8	0 28.1	0 32.3	0 37.3	0 43.0
2	0 31.9	0 27.8	0 24.6	0 22.4	0 21.4	0 21.5	0 22.7	0 25.1	0 28.4	0 32.7	0 37.8	0 43.6
3	0 31.5	0 27.4	0 24.3	0 22.3	0 21.4	0 21.6	0 22.9	0 25.4	0 28.8	0 33.2	0 38.4	0 44.2
4	0 31.0	0 27.1	0 24.1	0 22.1	0 21.3	0 21.7	0 23.1	0 25.7	0 29.2	0 33.7	0 38.9	0 44.8
5	0 30.6	0 26.7	0 23.8	0 22.0	0 21.3	0 21.7	0 23.3	0 26.0	0 29.6	0 34.2	0 39.5	0 45.4
6	0 30.2	0 26.4	0 23.6	0 21.9	0 21.3	0 21.9	0 23.5	0 26.3	0 30.1	0 34.7	0 40.1	0 46.0
7	0 29.8	0 26.1	0 23.4	0 21.8	0 21.3	0 22.0	0 23.8	0 26.6	0 30.5	0 35.2	0 40.6	0 46.6
8	0 29.3	0 25.8	0 23.2	0 21.7	0 21.3	0 22.1	0 24.0	0 27.0	0 30.9	0 35.7	0 41.2	0 47.3
9	0 28.9	0 25.4	0 23.0	0 21.6	0 21.3	0 22.2	0 24.3	0 27.3	0 31.4	0 36.2	0 41.8	0 47.9
Lat.	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
10	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8
20	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9
30	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9
40	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	0.9
45	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0
50	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0
55	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.0
60	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
62	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
64	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
66	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2
68	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2
70	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3
Month	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2
	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
Jan	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3
Feb	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5
Mar	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.6
Apr	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
May	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8
Jun	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8
Jul	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6
Aug	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
Sep	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Oct	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Nov	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1
Dec	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1	0.1
Lat.	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo
	°	°	°	°	°	°	°	°	°	°	°	°
10	0.4	0.3	0.2	0.1	0.0	359.9	359.8	359.7	359.6	359.5	359.5	359.4
20	0.4	0.3	0.2	0.1	0.0	359.9	359.8	359.7	359.6	359.5	359.4	359.4
30	0.5	0.4	0.3	0.1	0.0	359.9	359.8	359.6	359.5	359.5	359.4	359.3
40	0.5	0.4	0.3	0.2	0.0	359.9	359.7	359.6	359.5	359.4	359.3	359.2
45	0.6	0.5	0.3	0.2	0.0	359.9	359.7	359.6	359.4	359.3	359.2	359.2
50	0.6	0.5	0.4	0.2	0.0	359.8	359.7	359.5	359.4	359.3	359.2	359.1
55	0.7	0.6	0.4	0.2	0.0	359.8	359.6	359.5	359.3	359.2	359.1	359.0
60	0.8	0.7	0.5	0.2	0.0	359.8	359.6	359.4	359.2	359.0	358.9	358.8
62	0.9	0.7	0.5	0.3	0.0	359.8	359.6	359.3	359.1	359.0	358.8	358.7
64	1.0	0.8	0.5	0.3	0.0	359.8	359.5	359.3	359.1	358.9	358.8	358.7
66	1.0	0.8	0.6	0.3	0.0	359.8	359.5	359.2	359.0	358.8	358.7	358.5
68	1.1	0.9	0.6	0.3	0.0	359.7	359.4	359.2	358.9	358.7	358.5	358.4
70	1.2	1.0	0.7	0.4	0.0	359.7	359.4	359.1	358.8	358.6	358.4	358.3

Latitude = Apparent Altitude (corrected for refraction and dip) - 1° + a0 + a1 + a2

To determine Latitude, the table is entered with LHA Aries, which is obtained by addition of the observer's Longitude and the GHA Aries from the daily pages of this Almanac. The value of LHA Aries determines which column of the Polaris Tables to be used. Each column refers to a range of 10° of LHA. The value a0 is taken with mental interpolation (taking into account the fractional part of LHA Aries), from the upper table with the units of LHA Aries in degrees as argument. The values of a1 and a2 are taken, without interpolation, from the second and third table with arguments Latitude and Month respectively. The correction terms a0, a1 and a2 are always positive. The final table gives the Azimuth of Polaris.

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Polaris (Pole Star) Tables, 2025

For determining Latitude from Sextant Altitude and for Azimuth

LHA ARIES	120° - 129°	130° - 139°	140° - 149°	150° - 159°	160° - 169°	170° - 179°	180° - 189°	190° - 199°	200° - 209°	210° - 219°	220° - 229°	230° - 239°
	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0
	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,	° ' ,
0	0 48.5	0 55.0	1 01.5	1 08.0	1 14.3	1 20.0	1 25.1	1 29.4	1 32.8	1 35.2	1 36.5	1 36.6
1	0 49.2	0 55.6	1 02.2	1 08.7	1 14.9	1 20.6	1 25.6	1 29.8	1 33.1	1 35.4	1 36.6	1 36.6
2	0 49.8	0 56.3	1 02.9	1 09.3	1 15.4	1 21.1	1 26.1	1 30.2	1 33.4	1 35.6	1 36.6	1 36.5
3	0 50.4	0 56.9	1 03.5	1 09.9	1 16.0	1 21.6	1 26.5	1 30.6	1 33.7	1 35.7	1 36.6	1 36.4
4	0 51.1	0 57.6	1 04.2	1 10.6	1 16.6	1 22.1	1 27.0	1 30.9	1 33.9	1 35.9	1 36.7	1 36.3
5	0 51.7	0 58.3	1 04.8	1 11.2	1 17.2	1 22.7	1 27.4	1 31.3	1 34.2	1 36.0	1 36.7	1 36.3
6	0 52.4	0 58.9	1 05.5	1 11.8	1 17.8	1 23.2	1 27.8	1 31.6	1 34.4	1 36.1	1 36.7	1 36.1
7	0 53.0	0 59.6	1 06.1	1 12.4	1 18.3	1 23.7	1 28.2	1 31.9	1 34.6	1 36.2	1 36.7	1 36.0
8	0 53.7	1 00.2	1 06.8	1 13.0	1 18.9	1 24.2	1 28.7	1 32.2	1 34.8	1 36.3	1 36.7	1 35.9
9	0 54.3	1 00.9	1 07.4	1 13.7	1 19.5	1 24.6	1 29.1	1 32.6	1 35.0	1 36.4	1 36.7	1 35.8
Lat.	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,
10	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5
20	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5
30	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.5
40	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.6	0.6	0.5
45	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.5
50	1.1	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.6	0.5
55	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5
60	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
62	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
64	1.2	1.3	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
66	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.8	0.7	0.6	0.6	0.5
68	1.3	1.3	1.3	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.6	0.5
70	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.6	0.5
Month	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2
	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,	' ,
Jan	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5
Feb	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mar	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2
Apr	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3
May	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4
Jun	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5
Jul	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
Aug	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Sep	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.8
Oct	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.7
Nov	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6
Dec	0.0	0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4
Lat.	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo
	°	°	°	°	°	°	°	°	°	°	°	°
10	359.4	359.4	359.4	359.4	359.4	359.5	359.6	359.7	359.8	359.9	360.0	0.1
20	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.8	359.9	360.0	0.1
30	359.3	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.9	360.0	0.1
40	359.2	359.2	359.2	359.2	359.3	359.4	359.5	359.6	359.7	359.8	360.0	0.1
45	359.1	359.1	359.1	359.2	359.2	359.3	359.4	359.5	359.7	359.8	360.0	0.1
50	359.0	359.0	359.0	359.1	359.1	359.2	359.4	359.5	359.7	359.8	360.0	0.1
55	358.9	358.9	358.9	359.0	359.0	359.2	359.3	359.4	359.6	359.8	360.0	0.2
60	358.8	358.7	358.8	358.8	358.9	359.0	359.2	359.4	359.6	359.8	360.0	0.2
62	358.7	358.7	358.7	358.7	358.8	359.0	359.1	359.3	359.5	359.7	360.0	0.2
64	358.6	358.6	358.6	358.7	358.8	358.9	359.1	359.3	359.5	359.7	360.0	0.2
66	358.5	358.5	358.5	358.5	358.7	358.8	359.0	359.2	359.5	359.7	360.0	0.2
68	358.3	358.3	358.3	358.4	358.6	358.7	358.9	359.2	359.4	359.7	360.0	0.3
70	358.2	358.2	358.2	358.3	358.4	358.6	358.8	359.1	359.4	359.7	360.0	0.3

Latitude = Apparent Altitude (corrected for refraction and dip) - 1° + a0 + a1 + a2

To determine Latitude, the table is entered with LHA Aries, which is obtained by addition of the observer's Longitude and the GHA Aries from the daily pages of this Almanac. The value of LHA Aries determines which column of the Polaris Tables to be used. Each column refers to a range of 10° of LHA. The value a0 is taken with mental interpolation (taking into account the fractional part of LHA Aries), from the upper table with the units of LHA Aries in degrees as argument. The values of a1 and a2 are taken, without interpolation, from the second and third table with arguments Latitude and Month respectively. The correction terms a0, a1 and a2 are always positive. The final table gives the Azimuth of Polaris.

Polaris (Pole Star) Tables, 2025

For determining Latitude from Sextant Altitude and for Azimuth

LHA ARIES	240° - 249°	250° - 259°	260° - 269°	270° - 279°	280° - 289°	290° - 299°	300° - 309°	310° - 319°	320° - 329°	330° - 339°	340° - 349°	350° - 359°
	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0
	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,
0	1 35.6	1 33.5	1 30.3	1 26.2	1 21.2	1 15.6	1 09.5	1 03.0	0 56.5	0 50.0	0 43.7	0 38.0
1	1 35.4	1 33.2	1 29.9	1 25.7	1 20.7	1 15.0	1 08.8	1 02.4	0 55.8	0 49.3	0 43.1	0 37.4
2	1 35.3	1 32.9	1 29.6	1 25.3	1 20.2	1 14.4	1 08.2	1 01.7	0 55.1	0 48.7	0 42.6	0 36.9
3	1 35.1	1 32.6	1 29.2	1 24.8	1 19.6	1 13.8	1 07.6	1 01.1	0 54.5	0 48.1	0 42.0	0 36.4
4	1 34.9	1 32.3	1 28.8	1 24.3	1 19.1	1 13.2	1 06.9	1 00.4	0 53.8	0 47.4	0 41.4	0 35.9
5	1 34.7	1 32.0	1 28.4	1 23.8	1 18.5	1 12.6	1 06.3	0 59.7	0 53.2	0 46.8	0 40.8	0 35.3
6	1 34.5	1 31.7	1 27.9	1 23.3	1 17.9	1 12.0	1 05.6	0 59.1	0 52.5	0 46.2	0 40.2	0 34.8
7	1 34.2	1 31.4	1 27.5	1 22.8	1 17.4	1 11.4	1 05.0	0 58.4	0 51.9	0 45.6	0 39.7	0 34.3
8	1 34.0	1 31.0	1 27.1	1 22.3	1 16.8	1 10.7	1 04.3	0 57.8	0 51.2	0 45.0	0 39.1	0 33.8
9	1 33.7	1 30.7	1 26.6	1 21.8	1 16.2	1 10.1	1 03.7	0 57.1	0 50.6	0 44.3	0 38.5	0 33.4
Lat.	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,
10	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3
30	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
45	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
50	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
55	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
60	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
62	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5
64	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
66	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
68	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.5
70	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6
Month	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2
	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,
Jan	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Feb	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
Mar	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
Apr	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4
May	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Jun	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Jul	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1
Aug	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2
Sep	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3
Oct	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5
Nov	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
Dec	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9
Lat.	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo
	°	°	°	°	°	°	°	°	°	°	°	°
10	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5
20	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5
30	0.2	0.3	0.5	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6
40	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.6
45	0.3	0.4	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.7
50	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.8
55	0.3	0.5	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.0	1.0	0.9
60	0.4	0.6	0.8	0.9	1.1	1.2	1.2	1.3	1.2	1.2	1.1	1.0
62	0.4	0.6	0.8	1.0	1.1	1.2	1.3	1.3	1.3	1.3	1.2	1.1
64	0.5	0.7	0.9	1.1	1.2	1.3	1.4	1.4	1.4	1.4	1.3	1.1
66	0.5	0.7	1.0	1.1	1.3	1.4	1.5	1.5	1.5	1.5	1.4	1.2
68	0.5	0.8	1.0	1.2	1.4	1.5	1.6	1.7	1.7	1.6	1.5	1.3
70	0.6	0.9	1.1	1.4	1.5	1.7	1.8	1.8	1.8	1.8	1.6	1.5

Latitude = Apparent Altitude (corrected for refraction and dip) - 1° + a0 + a1 + a2

To determine Latitude, the table is entered with LHA Aries, which is obtained by addition of the observer's Longitude and the GHA Aries from the daily pages of this Almanac. The value of LHA Aries determines which column of the Polaris Tables to be used. Each column refers to a range of 10° of LHA. The value a0 is taken with mental interpolation (taking into account the fractional part of LHA Aries), from the upper table with the units of LHA Aries in degrees as argument. The values of a1 and a2 are taken, without interpolation, from the second and third table with arguments Latitude and Month respectively. The correction terms a0, a1 and a2 are always positive. The final table gives the Azimuth of Polaris.

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