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Nautical Almanac (Selected Stars)

2023



# **Star Maps**

## **The Nautical Almanac 2023 (Selected Stars)**

### **Polaris Tables 2023**

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!



# 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 : 69.2 s	Apr : 69.2 s	Jul : 69.1 s	Oct : 69.1 s
Feb : 69.2 s	May : 69.2 s	Aug : 69.1 s	Nov : 69.1 s
Mar : 69.2 s	Jun : 69.2 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	° '
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
Acrux	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 Hydriæ	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 Coronæ 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 Aquilæ	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



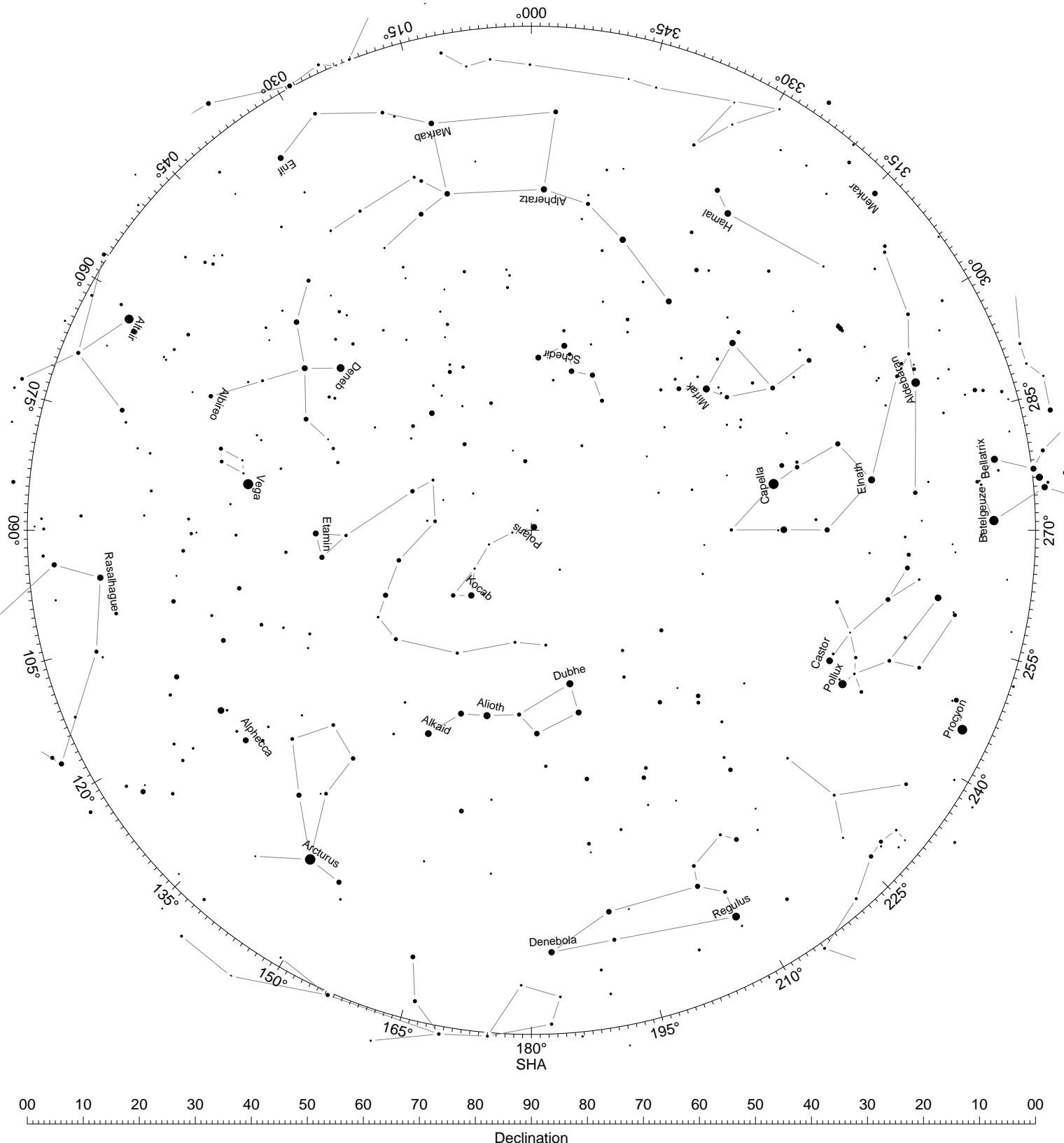
## **Position of the Stars on the local hemisphere**

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.

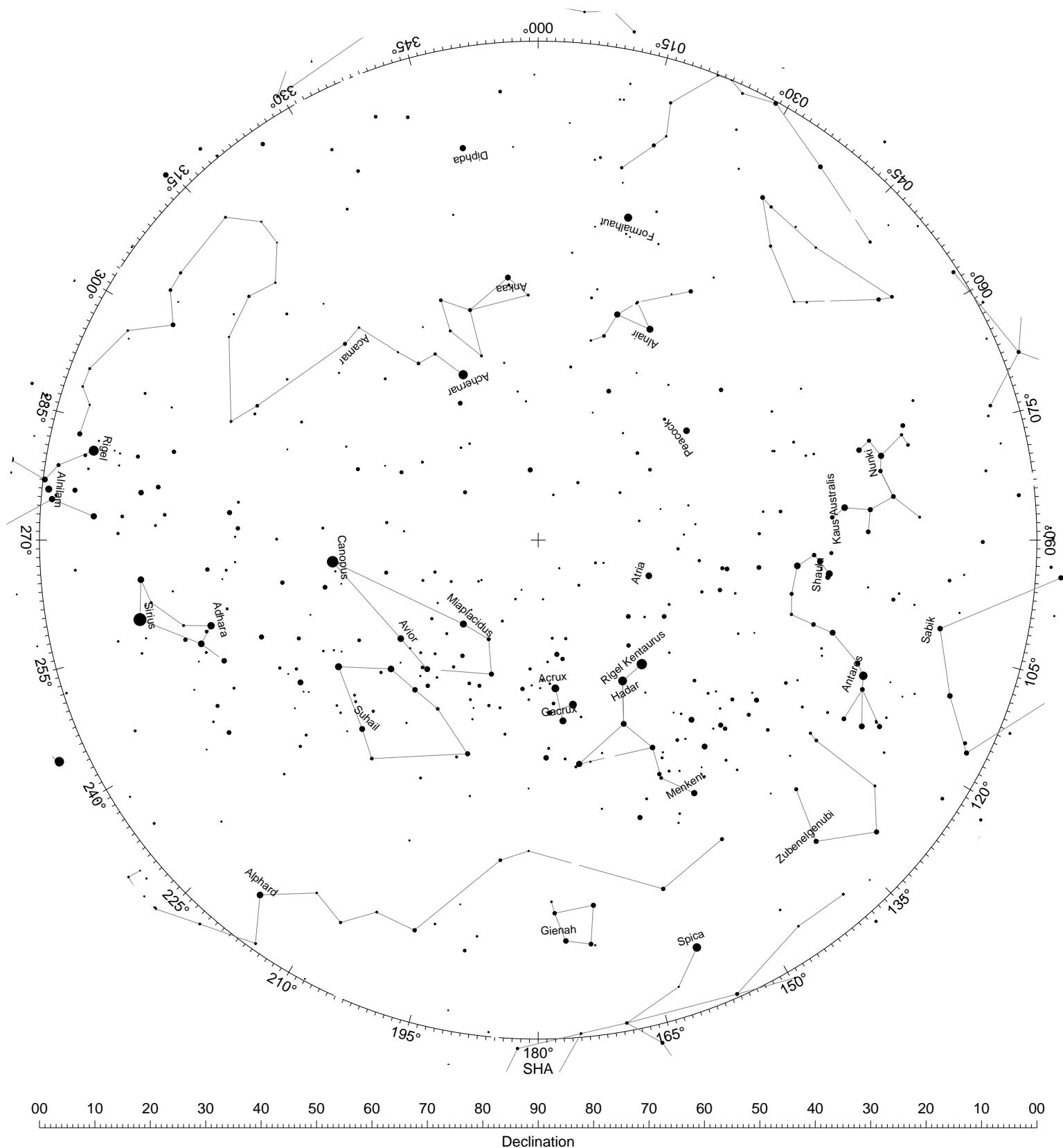
# Map of bright Stars of the Northern Celestial Sphere



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.

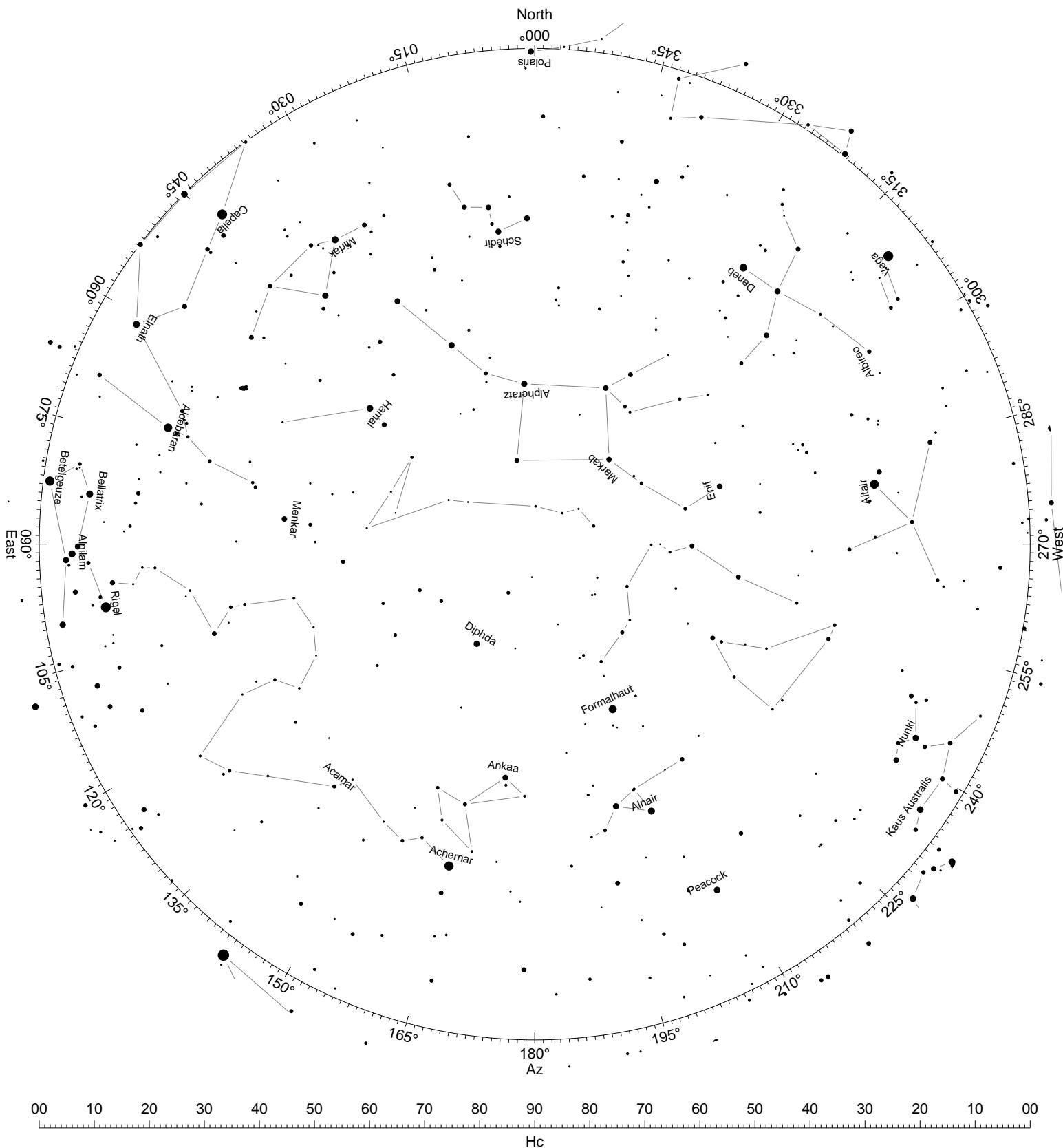
## **Map of bright Stars of the Southern Celestial Sphere**



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  $00^{\circ}$  (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.

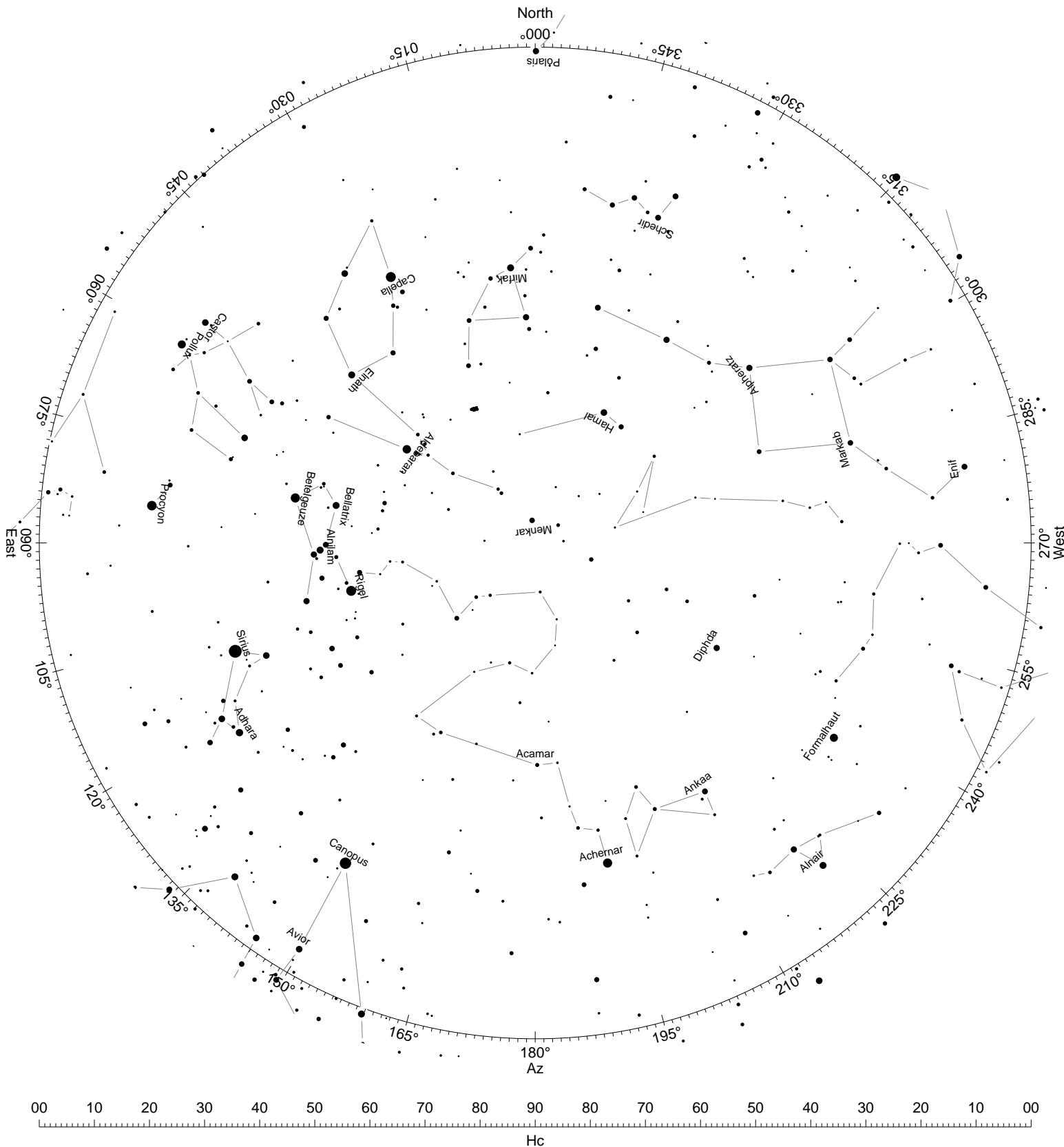
## Horizontal-Coordinate-System Map of bright Stars - Part I



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.

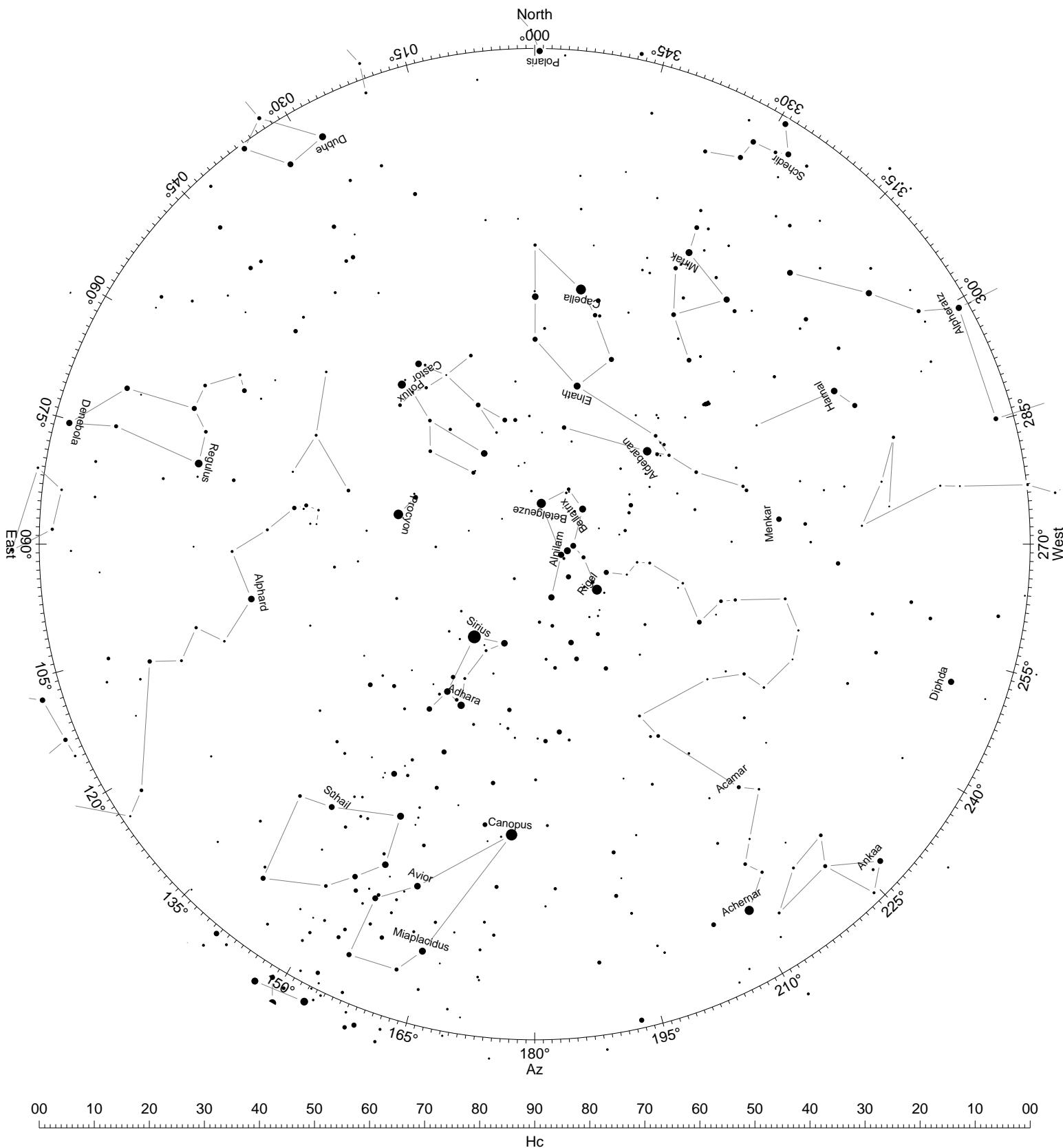
## Horizontal-Coordinate-System Map of bright Stars - Part II



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.

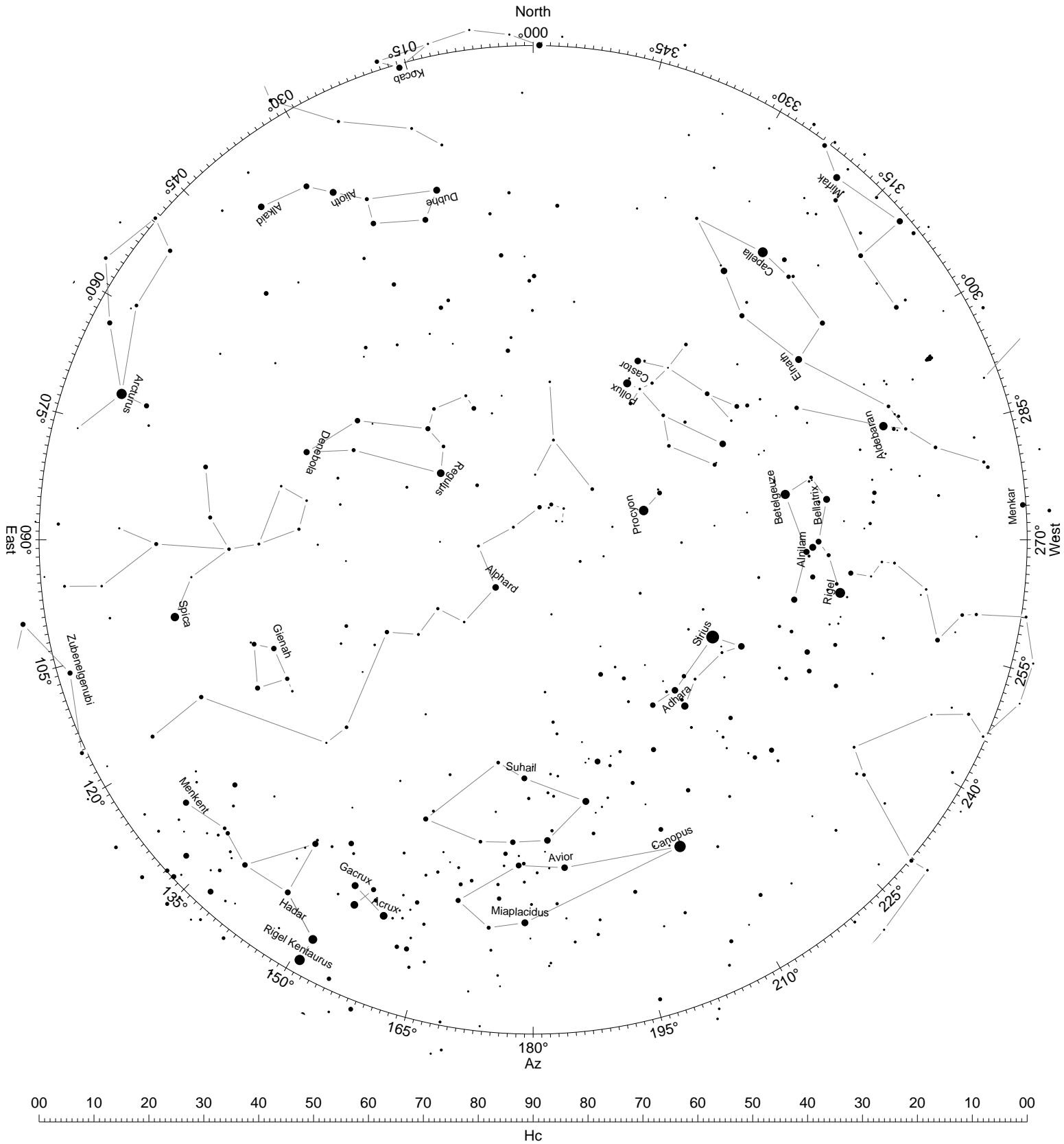
## Horizontal-Coordinate-System Map of bright Stars - Part III



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.

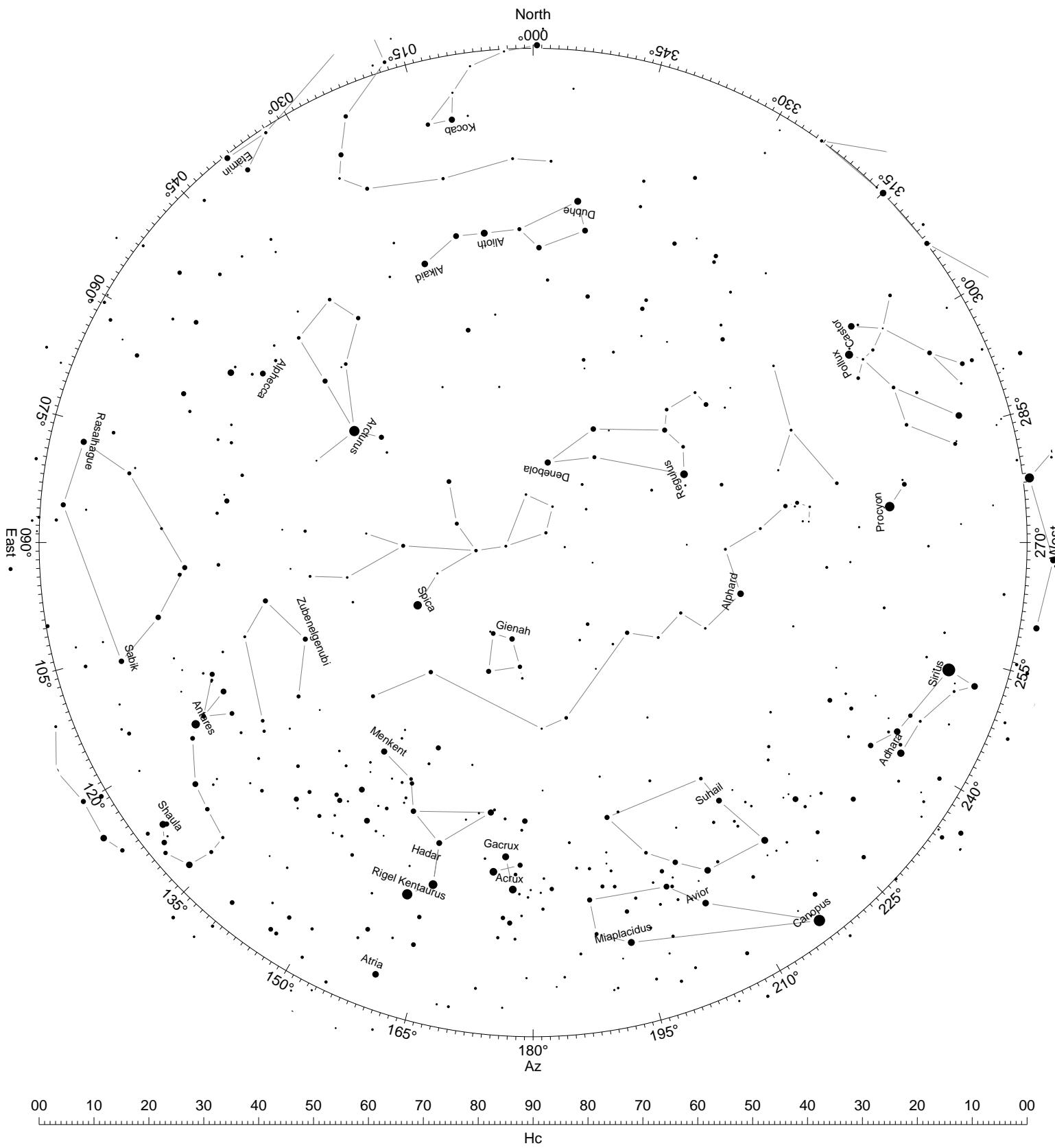
# Horizontal-Coordinate-System Map of bright Stars - Part IV



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.

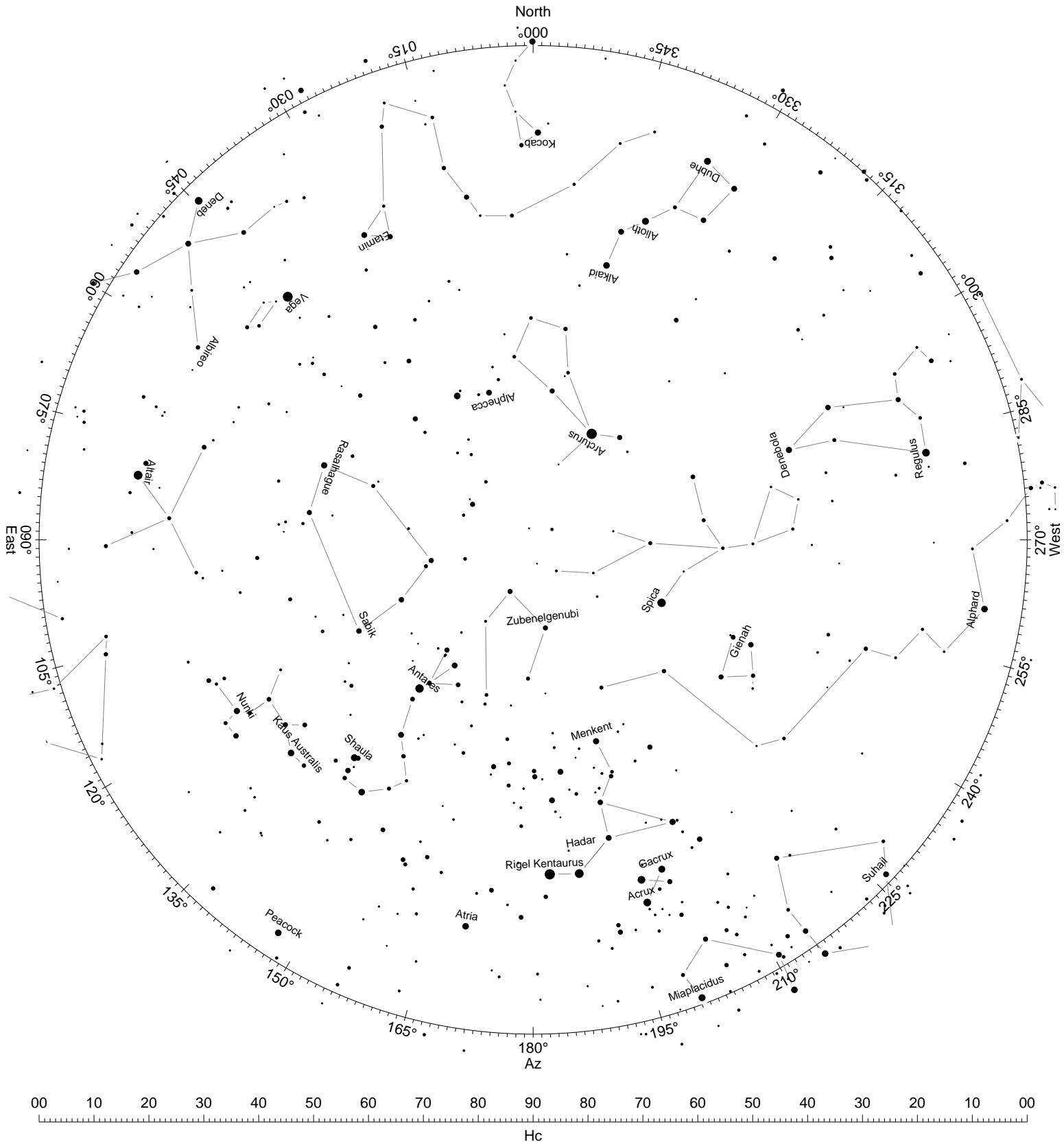
## Horizontal-Coordinate-System Map of bright Stars - Part V



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.

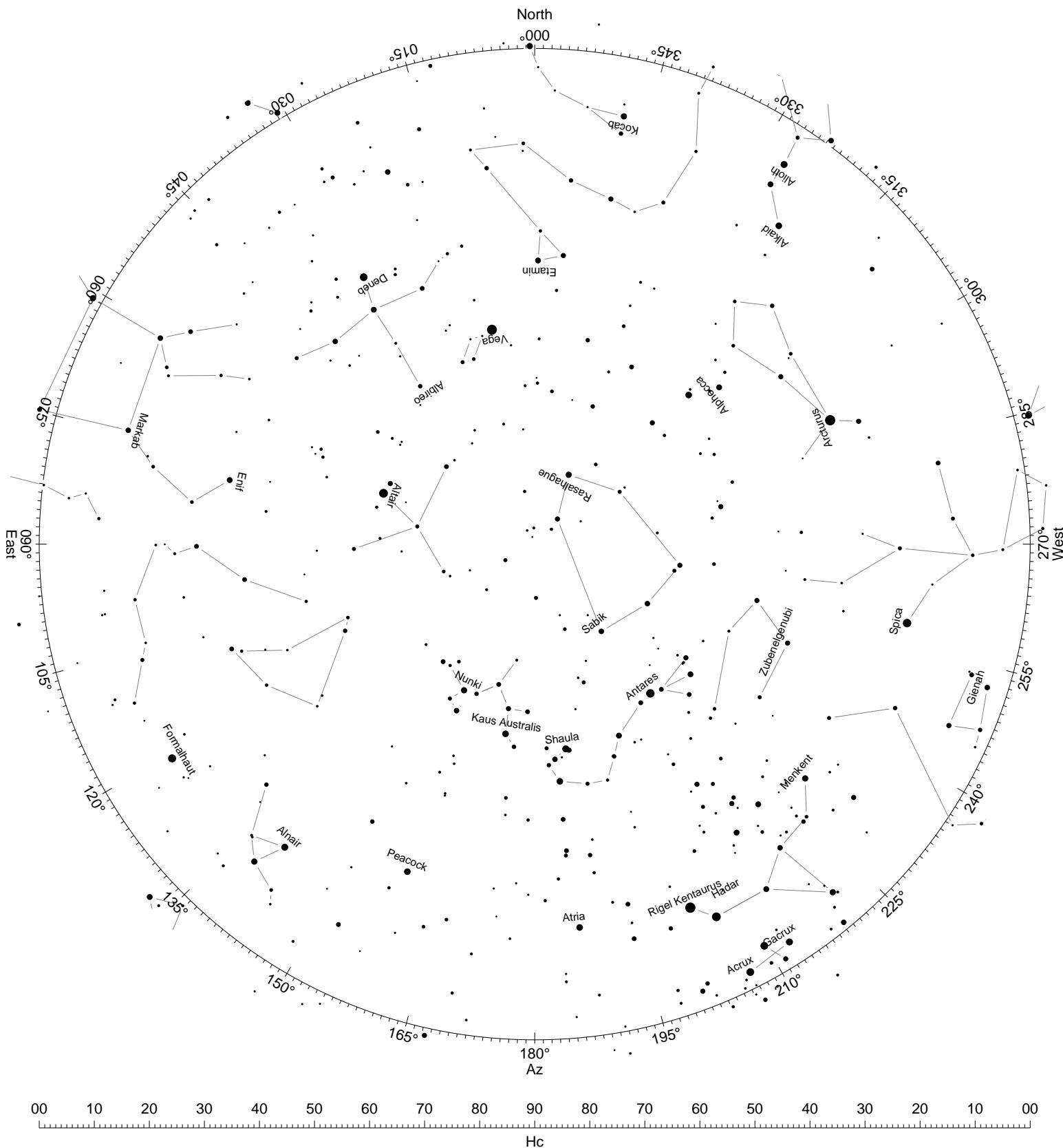
# Horizontal-Coordinate-System Map of bright Stars - Part VI



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.

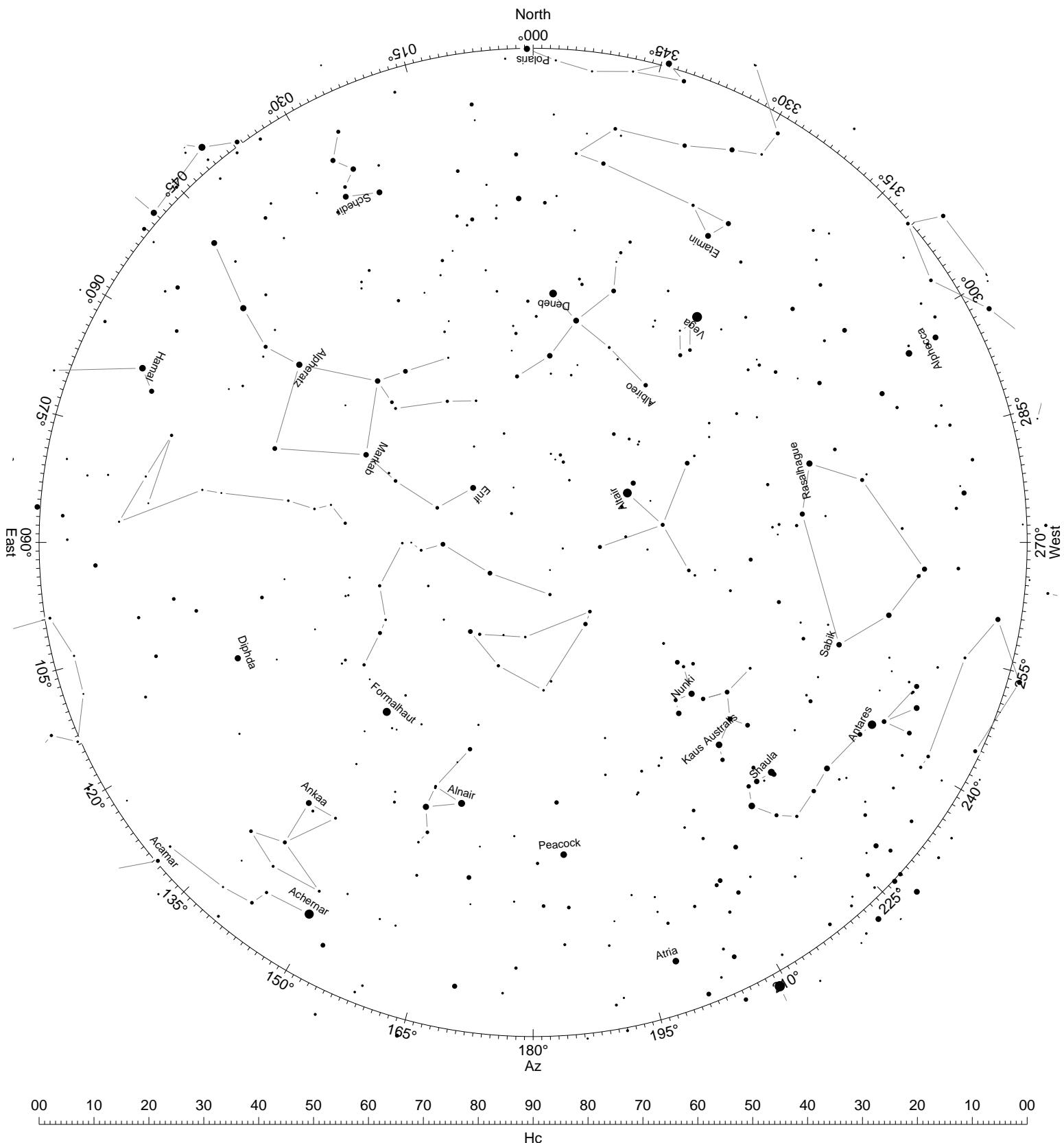
Horizontal-Coordinate-System Map of bright Stars - Part VII



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:  $\text{GHA}_{\text{star}} = \text{GHA}_{\text{Aries}} + \text{SHA}_{\text{star}}$

## 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]

# 2023 - First Point of Aries / Selected Stars

	day 1 of 365		day 2 of 365		day 3 of 365		day 4 of 365		day 5 of 365			
	<b>January 1</b>		<b>January 2</b>		<b>January 3</b>		<b>January 4</b>		<b>January 5</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	100	23.3	+02.5	101	22.5	+02.4	102	21.6	+02.5	103	20.7	+02.5
01	115	25.8	+02.4	116	24.9	+02.5	117	24.1	+02.4	118	23.2	+02.5
02	130	28.2	+02.5	131	27.4	+02.5	132	26.5	+02.5	133	25.7	+02.4
03	145	30.7	+02.5	146	29.9	+02.4	147	29.0	+02.5	148	28.1	+02.5
04	160	33.2	+02.4	161	32.3	+02.5	162	31.5	+02.4	163	30.6	+02.5
05	175	35.6	+02.5	176	34.8	+02.4	177	33.9	+02.5	178	33.1	+02.4
06	190	38.1	+02.5	191	37.2	+02.5	192	36.4	+02.4	193	35.5	+02.5
07	205	40.6	+02.4	206	39.7	+02.5	207	38.8	+02.5	208	38.0	+02.5
08	220	43.0	+02.5	221	42.2	+02.4	222	41.3	+02.5	223	40.5	+02.4
09	235	45.5	+02.5	236	44.6	+02.5	237	43.8	+02.4	238	42.9	+02.5
10	250	48.0	+02.4	251	47.1	+02.5	252	46.2	+02.5	253	45.4	+02.4
11	265	50.4	+02.5	266	49.6	+02.4	267	48.7	+02.5	268	47.8	+02.5
12	280	52.9	+02.5	281	52.0	+02.5	282	51.2	+02.4	283	50.3	+02.5
13	295	55.4	+02.4	296	54.5	+02.5	297	53.6	+02.5	298	52.8	+02.4
14	310	57.8	+02.5	311	57.0	+02.4	312	56.1	+02.5	313	55.2	+02.5
15	326	00.3	+02.4	326	59.4	+02.5	327	58.6	+02.4	328	57.7	+02.5
16	341	02.7	+02.5	342	01.9	+02.4	343	01.0	+02.5	344	00.2	+02.4
17	356	05.2	+02.5	357	04.3	+02.5	358	03.5	+02.5	359	02.6	+02.5
18	11	07.7	+02.4	12	06.8	+02.5	13	06.0	+02.4	14	05.1	+02.5
19	26	10.1	+02.5	27	09.3	+02.4	28	08.4	+02.5	29	07.6	+02.4
20	41	12.6	+02.5	42	11.7	+02.5	43	10.9	+02.4	44	10.0	+02.5
21	56	15.1	+02.4	57	14.2	+02.5	58	13.3	+02.5	59	12.5	+02.5
22	71	17.5	+02.5	72	16.7	+02.4	73	15.8	+02.5	74	15.0	+02.4
23	86	20.0	+02.5	87	19.1	+02.5	88	18.3	+02.4	89	17.4	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.6	N 29 13.2	Gienah	175 45.2	S 17 40.0
Ankaa	353 08.9	S 42 11.0	Acrux	173 01.9	S 63 13.2
Schedir	349 33.0	N 56 40.0	Gacrux	171 53.5	S 57 14.1
Diphda	348 49.1	S 17 51.8	Alioth	166 14.6	N 55 49.9
Achernar	335 21.3	S 57 07.5	Spica	158 24.1	S 11 16.8
Hamal	327 53.0	N 23 34.4	Alkaid	152 53.4	N 49 11.7
Polaris	314 32.9	N 89 21.9	Hadar	148 38.6	S 60 28.7
Acamar	315 12.8	S 40 13.0	Menkent	147 59.5	S 36 28.5
Menkar	314 07.7	N 04 10.8	Arcturus	145 49.2	N 19 04.4
Mirfak	308 30.3	N 49 56.7	Rigel Kentaurus	139 40.3	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 58.0	S 16 08.1
Capella	280 23.9	N 46 01.5	Kocab	137 20.4	N 74 03.4
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.5	N 26 38.2
Bellatrix	278 24.3	N 06 22.2	Antares	112 18.3	S 26 28.9
Elnath	278 03.6	N 28 37.7	Atria	107 14.5	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 05.0	S 15 45.2
Betelgeuze	270 53.6	N 07 24.7	Shaula	96 13.1	S 37 07.2
Canopus	263 52.6	S 52 42.5	Rasalhague	96 00.5	N 12 32.6
Sirius	258 27.2	S 16 44.4	Etamin	90 43.5	N 51 29.1
Adhara	255 06.8	S 29 00.2	Kaus Australis	83 35.1	S 34 22.4
Castor	245 58.7	N 31 50.3	Vega	80 34.9	N 38 48.1
Procyon	244 52.0	N 05 10.3	Nunki	75 50.2	S 26 16.1
Pollux	243 18.6	N 27 58.2	Albireo	67 05.8	N 28 00.4
Avior	234 14.8	S 59 34.8	Altair	62 02.1	N 08 55.5
Suhail	222 47.1	S 43 31.3	Peacock	53 08.9	S 56 39.8
Miaplacidus	221 37.7	S 69 48.5	Deneb	49 27.4	N 45 21.8
Alphard	217 49.1	S 08 45.4	Enif	33 40.7	N 09 58.8
Regulus	207 35.9	N 11 51.3	Alnair	27 35.4	S 46 51.2
Dubhe	193 42.7	N 61 37.4	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.4	N 14 26.6	Markab	13 31.7	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 6 of 365		day 7 of 365		day 8 of 365		day 9 of 365		day 10 of 365			
UT	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	UT	
00	105	19.0	+02.5	106	18.2	+02.4	107	17.3	+02.5	108	16.4	+02.5
01	120	21.5	+02.4	121	20.6	+02.5	122	19.8	+02.4	123	18.9	+02.5
02	135	23.9	+02.5	136	23.1	+02.5	137	22.2	+02.5	138	21.4	+02.4
03	150	26.4	+02.5	151	25.6	+02.4	152	24.7	+02.5	153	23.8	+02.5
04	165	28.9	+02.4	166	28.0	+02.5	167	27.2	+02.4	168	26.3	+02.5
05	180	31.3	+02.5	181	30.5	+02.4	182	29.6	+02.5	183	28.8	+02.4
06	195	33.8	+02.5	196	32.9	+02.5	197	32.1	+02.5	198	31.2	+02.5
07	210	36.3	+02.4	211	35.4	+02.5	212	34.6	+02.4	213	33.7	+02.5
08	225	38.7	+02.5	226	37.9	+02.4	227	37.0	+02.5	228	36.2	+02.4
09	240	41.2	+02.5	241	40.3	+02.5	242	39.5	+02.4	243	38.6	+02.5
10	255	43.7	+02.4	256	42.8	+02.5	257	41.9	+02.5	258	41.1	+02.4
11	270	46.1	+02.5	271	45.3	+02.4	272	44.4	+02.5	273	43.5	+02.5
12	285	48.6	+02.5	286	47.7	+02.5	287	46.9	+02.4	288	46.0	+02.5
13	300	51.1	+02.4	301	50.2	+02.5	302	49.3	+02.5	303	48.5	+02.4
14	315	53.5	+02.5	316	52.7	+02.4	317	51.8	+02.5	318	50.9	+02.5
15	330	56.0	+02.4	331	55.1	+02.5	332	54.3	+02.4	333	53.4	+02.5
16	345	58.4	+02.5	346	57.6	+02.5	347	56.7	+02.5	348	55.9	+02.4
17	1	00.9	+02.5	2	00.1	+02.4	2	59.2	+02.5	3	58.3	+02.5
18	16	03.4	+02.4	17	02.5	+02.5	18	01.7	+02.4	19	00.8	+02.5
19	31	05.8	+02.5	32	05.0	+02.4	33	04.1	+02.5	34	03.3	+02.4
20	46	08.3	+02.5	47	07.4	+02.5	48	06.6	+02.4	49	05.7	+02.5
21	61	10.8	+02.4	62	09.9	+02.5	63	09.0	+02.5	64	08.2	+02.5
22	76	13.2	+02.5	77	12.4	+02.4	78	11.5	+02.5	79	10.7	+02.4
23	91	15.7	+02.5	92	14.8	+02.5	93	14.0	+02.4	94	13.1	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.6	N 29 13.2	Gienah	175 45.2	S 17 40.1
Ankaa	353 09.0	S 42 11.0	Acrux	173 01.8	S 63 13.2
Schedir	349 33.0	N 56 40.0	Gacrux	171 53.4	S 57 14.1
Diphda	348 49.1	S 17 51.8	Alioth	166 14.5	N 55 49.9
Achernar	335 21.4	S 57 07.5	Spica	158 24.1	S 11 16.8
Hamal	327 53.0	N 23 34.4	Alkaid	152 53.4	N 49 11.7
Polaris	314 34.4	N 89 21.9	Hadar	148 38.5	S 60 28.7
Acamar	315 12.8	S 40 13.0	Menkent	147 59.4	S 36 28.5
Menkar	314 07.7	N 04 10.8	Arcturus	145 49.2	N 19 04.4
Mirfak	308 30.3	N 49 56.7	Rigel Kentaurus	139 40.2	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 58.0	S 16 08.1
Capella	280 23.9	N 46 01.5	Kocab	137 20.4	N 74 03.4
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.4	N 26 38.1
Bellatrix	278 24.3	N 06 22.2	Antares	112 18.3	S 26 28.9
Elnath	278 03.6	N 28 37.7	Atria	107 14.4	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 05.0	S 15 45.2
Betelgeuze	270 53.6	N 07 24.6	Shaula	96 13.0	S 37 07.1
Canopus	263 52.6	S 52 42.5	Rasalhague	96 00.4	N 12 32.6
Sirius	258 27.2	S 16 44.4	Etamin	90 43.5	N 51 29.0
Adhara	255 06.8	S 29 00.2	Kaus Australis	83 35.1	S 34 22.4
Castor	245 58.7	N 31 50.3	Vega	80 34.9	N 38 48.1
Procyon	244 52.0	N 05 10.3	Nunki	75 50.2	S 26 16.1
Pollux	243 18.6	N 27 58.2	Albireo	67 05.8	N 28 00.4
Avior	234 14.8	S 59 34.9	Altair	62 02.1	N 08 55.5
Suhail	222 47.1	S 43 31.4	Peacock	53 08.9	S 56 39.8
Miaplacidus	221 37.6	S 69 48.5	Deneb	49 27.4	N 45 21.8
Alphard	217 49.1	S 08 45.5	Enif	33 40.7	N 09 58.8
Regulus	207 35.9	N 11 51.3	Alnair	27 35.4	S 46 51.2
Dubhe	193 42.6	N 61 37.4	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.4	N 14 26.6	Markab	13 31.7	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 11 of 365		day 12 of 365		day 13 of 365		day 14 of 365		day 15 of 365			
	<b>January 11</b>		<b>January 12</b>		<b>January 13</b>		<b>January 14</b>		<b>January 15</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	110	14.7	+02.5	111	13.9	+02.4	112	13.0	+02.5	113	12.1	+02.5
01	125	17.2	+02.4	126	16.3	+02.5	127	15.5	+02.4	128	14.6	+02.5
02	140	19.6	+02.5	141	18.8	+02.5	142	17.9	+02.5	143	17.1	+02.4
03	155	22.1	+02.5	156	21.3	+02.4	157	20.4	+02.5	158	19.5	+02.5
04	170	24.6	+02.4	171	23.7	+02.5	172	22.9	+02.4	173	22.0	+02.5
05	185	27.0	+02.5	186	26.2	+02.4	187	25.3	+02.5	188	24.5	+02.4
06	200	29.5	+02.5	201	28.6	+02.5	202	27.8	+02.4	203	26.9	+02.5
07	215	32.0	+02.4	216	31.1	+02.5	217	30.2	+02.5	218	29.4	+02.4
08	230	34.4	+02.5	231	33.6	+02.4	232	32.7	+02.5	233	31.8	+02.5
09	245	36.9	+02.5	246	36.0	+02.5	247	35.2	+02.4	248	34.3	+02.5
10	260	39.4	+02.4	261	38.5	+02.5	262	37.6	+02.5	263	36.8	+02.4
11	275	41.8	+02.5	276	41.0	+02.4	277	40.1	+02.5	278	39.2	+02.5
12	290	44.3	+02.5	291	43.4	+02.5	292	42.6	+02.4	293	41.7	+02.5
13	305	46.8	+02.4	306	45.9	+02.5	307	45.0	+02.5	308	44.2	+02.4
14	320	49.2	+02.5	321	48.4	+02.4	322	47.5	+02.5	323	46.6	+02.5
15	335	51.7	+02.4	336	50.8	+02.5	337	50.0	+02.4	338	49.1	+02.5
16	350	54.1	+02.5	351	53.3	+02.4	352	52.4	+02.5	353	51.6	+02.4
17	5	56.6	+02.5	6	55.7	+02.5	7	54.9	+02.4	8	54.0	+02.5
18	20	59.1	+02.4	21	58.2	+02.5	22	57.3	+02.5	23	56.5	+02.5
19	36	01.5	+02.5	37	00.7	+02.4	37	59.8	+02.5	38	59.0	+02.4
20	51	04.0	+02.5	52	03.1	+02.5	53	02.3	+02.4	54	01.4	+02.5
21	66	06.5	+02.4	67	05.6	+02.5	68	04.7	+02.5	69	03.9	+02.4
22	81	08.9	+02.5	82	08.1	+02.4	83	07.2	+02.5	84	06.3	+02.5
23	96	11.4	+02.5	97	10.5	+02.5	98	09.7	+02.4	99	08.8	+02.5

	SHA	Dec		SHA	Dec		
	° , '	° , '		° , '	° , '		
Alpheratz	357	36.6	N 29 13.2	Gienah	175	45.1	S 17 40.1
Ankaa	353	09.0	S 42 11.0	Acrux	173	01.7	S 63 13.3
Schedir	349	33.0	N 56 40.0	Gacrux	171	53.4	S 57 14.1
Diphda	348	49.1	S 17 51.8	Alioth	166	14.5	N 55 49.8
Achernar	335	21.4	S 57 07.5	Spica	158	24.0	S 11 16.8
Hamal	327	53.0	N 23 34.4	Alkaid	152	53.3	N 49 11.7
Polaris	314	36.5	N 89 21.9	Hadar	148	38.5	S 60 28.7
Acamar	315	12.8	S 40 13.0	Menkent	147	59.3	S 36 28.5
Menkar	314	07.7	N 04 10.8	Arcturus	145	49.1	N 19 04.4
Mirfak	308	30.3	N 49 56.7	Rigel Kentaurus	139	40.1	S 60 55.7
Aldebaran	290	41.3	N 16 33.4	Zubenelgenubi	136	57.9	S 16 08.1
Capella	280	23.9	N 46 01.5	Kocab	137	20.2	N 74 03.3
Rigel	281	05.2	S 08 10.6	Alphecca	126	05.4	N 26 38.1
Bellatrix	278	24.3	N 06 22.2	Antares	112	18.3	S 26 28.9
Elnath	278	03.6	N 28 37.7	Atria	107	14.3	S 69 03.9
Alnilam	275	39.1	S 01 11.3	Sabik	102	05.0	S 15 45.2
Betelgeuze	270	53.6	N 07 24.6	Shaula	96	13.0	S 37 07.1
Canopus	263	52.6	S 52 42.5	Rasalhague	96	00.4	N 12 32.6
Sirius	258	27.1	S 16 44.4	Etamin	90	43.5	N 51 29.0
Adhara	255	06.8	S 29 00.2	Kaus Australis	83	35.1	S 34 22.4
Castor	245	58.7	N 31 50.3	Vega	80	34.8	N 38 48.1
Procyon	244	52.0	N 05 10.3	Nunki	75	50.2	S 26 16.1
Pollux	243	18.6	N 27 58.2	Albireo	67	05.8	N 28 00.4
Avior	234	14.7	S 59 34.9	Altair	62	02.1	N 08 55.5
Suhail	222	47.1	S 43 31.4	Peacock	53	08.9	S 56 39.8
Miaplacidus	221	37.6	S 69 48.5	Deneb	49	27.4	N 45 21.7
Alphard	217	49.1	S 08 45.5	Enif	33	40.7	N 09 58.8
Regulus	207	35.8	N 11 51.2	Alnair	27	35.4	S 46 51.2
Dubhe	193	42.5	N 61 37.4	Formalhaut	15	16.7	S 29 30.2
Denebola	182	26.3	N 14 26.6	Markab	13	31.7	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 16 of 365		day 17 of 365		day 18 of 365		day 19 of 365		day 20 of 365			
UT	GHA	ddGHA	UT									
00	115	10.4	+02.5	116	09.5	+02.5	117	08.7	+02.5	118	07.8	+02.5
01	130	12.9	+02.4	131	12.0	+02.5	132	11.2	+02.4	133	10.3	+02.5
02	145	15.3	+02.5	146	14.5	+02.4	147	13.6	+02.5	148	12.8	+02.4
03	160	17.8	+02.5	161	16.9	+02.5	162	16.1	+02.4	163	15.2	+02.5
04	175	20.3	+02.4	176	19.4	+02.5	177	18.5	+02.5	178	17.7	+02.5
05	190	22.7	+02.5	191	21.9	+02.4	192	21.0	+02.5	193	20.2	+02.4
06	205	25.2	+02.5	206	24.3	+02.5	207	23.5	+02.4	208	22.6	+02.5
07	220	27.7	+02.4	221	26.8	+02.5	222	25.9	+02.5	223	25.1	+02.4
08	235	30.1	+02.5	236	29.3	+02.4	237	28.4	+02.5	238	27.5	+02.5
09	250	32.6	+02.5	251	31.7	+02.5	252	30.9	+02.4	253	30.0	+02.5
10	265	35.1	+02.4	266	34.2	+02.5	267	33.3	+02.5	268	32.5	+02.4
11	280	37.5	+02.5	281	36.7	+02.4	282	35.8	+02.5	283	34.9	+02.5
12	295	40.0	+02.4	296	39.1	+02.5	297	38.3	+02.4	298	37.4	+02.5
13	310	42.4	+02.5	311	41.6	+02.4	312	40.7	+02.5	313	39.9	+02.4
14	325	44.9	+02.5	326	44.0	+02.5	327	43.2	+02.5	328	42.3	+02.5
15	340	47.4	+02.4	341	46.5	+02.5	342	45.7	+02.4	343	44.8	+02.5
16	355	49.8	+02.5	356	49.0	+02.4	357	48.1	+02.5	358	47.3	+02.4
17	10	52.3	+02.5	11	51.4	+02.5	12	50.6	+02.4	13	49.7	+02.5
18	25	54.8	+02.4	26	53.9	+02.5	27	53.0	+02.5	28	52.2	+02.5
19	40	57.2	+02.5	41	56.4	+02.4	42	55.5	+02.5	43	54.7	+02.4
20	55	59.7	+02.5	56	58.8	+02.5	57	58.0	+02.4	58	57.1	+02.5
21	71	02.2	+02.4	72	01.3	+02.5	73	00.4	+02.5	73	59.6	+02.4
22	86	04.6	+02.5	87	03.8	+02.4	88	02.9	+02.5	89	02.0	+02.5
23	101	07.1	+02.4	102	06.2	+02.5	103	05.4	+02.4	104	04.5	+02.5

	SHA	Dec		SHA	Dec		
	° , '	° , '		° , '	° , '		
Alpheratz	357	36.7	N 29 13.2	Gienah	175	45.1	S 17 40.1
Ankaa	353	09.0	S 42 11.0	Acrux	173	01.7	S 63 13.3
Schedir	349	33.1	N 56 40.0	Gacrux	171	53.3	S 57 14.1
Diphda	348	49.1	S 17 51.8	Alioth	166	14.4	N 55 49.8
Achernar	335	21.5	S 57 07.5	Spica	158	24.0	S 11 16.8
Hamal	327	53.1	N 23 34.4	Alkaid	152	53.3	N 49 11.7
Polaris	314	38.8	N 89 22.0	Hadar	148	38.4	S 60 28.7
Acamar	315	12.8	S 40 13.0	Menkent	147	59.3	S 36 28.5
Menkar	314	07.7	N 04 10.8	Arcturus	145	49.1	N 19 04.4
Mirfak	308	30.4	N 49 56.7	Rigel Kentaurus	139	40.0	S 60 55.7
Aldebaran	290	41.3	N 16 33.4	Zubenelgenubi	136	57.9	S 16 08.1
Capella	280	23.9	N 46 01.5	Kocab	137	20.1	N 74 03.3
Rigel	281	05.2	S 08 10.6	Alphecca	126	05.4	N 26 38.1
Bellatrix	278	24.3	N 06 22.2	Antares	112	18.2	S 26 28.9
Elnath	278	03.6	N 28 37.7	Atria	107	14.3	S 69 03.9
Alnilam	275	39.1	S 01 11.3	Sabik	102	05.0	S 15 45.2
Betelgeuze	270	53.6	N 07 24.6	Shaula	96	13.0	S 37 07.1
Canopus	263	52.6	S 52 42.5	Rasalhague	96	00.4	N 12 32.6
Sirius	258	27.1	S 16 44.5	Etamin	90	43.4	N 51 29.0
Adhara	255	06.8	S 29 00.2	Kaus Australis	83	35.1	S 34 22.4
Castor	245	58.7	N 31 50.3	Vega	80	34.8	N 38 48.0
Procyon	244	52.0	N 05 10.3	Nunki	75	50.2	S 26 16.1
Pollux	243	18.6	N 27 58.2	Albireo	67	05.8	N 28 00.4
Avior	234	14.7	S 59 34.9	Altair	62	02.1	N 08 55.5
Suhail	222	47.1	S 43 31.4	Peacock	53	08.9	S 56 39.7
Miaplacidus	221	37.5	S 69 48.5	Deneb	49	27.4	N 45 21.7
Alphard	217	49.1	S 08 45.5	Enif	33	40.7	N 09 58.8
Regulus	207	35.8	N 11 51.2	Alnair	27	35.4	S 46 51.2
Dubhe	193	42.5	N 61 37.4	Formalhaut	15	16.7	S 29 30.2
Denebola	182	26.3	N 14 26.6	Markab	13	31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 21 of 365		day 22 of 365		day 23 of 365		day 24 of 365		day 25 of 365			
	<b>January 21</b>		<b>January 22</b>		<b>January 23</b>		<b>January 24</b>		<b>January 25</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	120	06.1	+02.5	121	05.3	+02.4	122	04.4	+02.5	123	03.5	+02.5
01	135	08.6	+02.4	136	07.7	+02.5	137	06.9	+02.4	138	06.0	+02.5
02	150	11.0	+02.5	151	10.2	+02.4	152	09.3	+02.5	153	08.5	+02.4
03	165	13.5	+02.5	166	12.6	+02.5	167	11.8	+02.5	168	10.9	+02.5
04	180	16.0	+02.4	181	15.1	+02.5	182	14.3	+02.4	183	13.4	+02.5
05	195	18.4	+02.5	196	17.6	+02.4	197	16.7	+02.5	198	15.9	+02.4
06	210	20.9	+02.5	211	20.0	+02.5	212	19.2	+02.4	213	18.3	+02.5
07	225	23.4	+02.4	226	22.5	+02.5	227	21.6	+02.5	228	20.8	+02.4
08	240	25.8	+02.5	241	25.0	+02.4	242	24.1	+02.5	243	23.2	+02.5
09	255	28.3	+02.5	256	27.4	+02.5	257	26.6	+02.4	258	25.7	+02.5
10	270	30.8	+02.4	271	29.9	+02.5	272	29.0	+02.5	273	28.2	+02.4
11	285	33.2	+02.5	286	32.4	+02.4	287	31.5	+02.5	288	30.6	+02.5
12	300	35.7	+02.4	301	34.8	+02.5	302	34.0	+02.4	303	33.1	+02.5
13	315	38.1	+02.5	316	37.3	+02.5	317	36.4	+02.5	318	35.6	+02.4
14	330	40.6	+02.5	331	39.8	+02.4	332	38.9	+02.5	333	38.0	+02.5
15	345	43.1	+02.4	346	42.2	+02.5	347	41.4	+02.4	348	40.5	+02.5
16	0	45.5	+02.5	1	44.7	+02.4	2	43.8	+02.5	3	43.0	+02.4
17	15	48.0	+02.5	16	47.1	+02.5	17	46.3	+02.5	18	45.4	+02.5
18	30	50.5	+02.4	31	49.6	+02.5	32	48.8	+02.4	33	47.9	+02.5
19	45	52.9	+02.5	46	52.1	+02.4	47	51.2	+02.5	48	50.4	+02.4
20	60	55.4	+02.5	61	54.5	+02.5	62	53.7	+02.4	63	52.8	+02.5
21	75	57.9	+02.4	76	57.0	+02.5	77	56.1	+02.5	78	55.3	+02.4
22	91	00.3	+02.5	91	59.5	+02.4	92	58.6	+02.5	93	57.7	+02.5
23	106	02.8	+02.5	107	01.9	+02.5	108	01.1	+02.4	109	00.2	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.2	Gienah	175 45.1	S 17 40.1
Ankaa	353 09.0	S 42 11.0	Acrux	173 01.6	S 63 13.3
Schedir	349 33.1	N 56 40.0	Gacrux	171 53.3	S 57 14.2
Diphda	348 49.1	S 17 51.8	Alioth	166 14.4	N 55 49.8
Achernar	335 21.5	S 57 07.5	Spica	158 24.0	S 11 16.8
Hamal	327 53.1	N 23 34.4	Alkaid	152 53.2	N 49 11.6
Polaris	314 40.6	N 89 22.0	Hadar	148 38.3	S 60 28.7
Acamar	315 12.9	S 40 13.0	Menkent	147 59.2	S 36 28.5
Menkar	314 07.7	N 04 10.8	Arcturus	145 49.0	N 19 04.4
Mirfak	308 30.4	N 49 56.7	Rigel Kentaurus	139 39.9	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 57.8	S 16 08.1
Capella	280 23.9	N 46 01.5	Kocab	137 20.0	N 74 03.3
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.3	N 26 38.1
Bellatrix	278 24.3	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 03.6	N 28 37.7	Atria	107 14.2	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 53.5	N 07 24.6	Shaula	96 12.9	S 37 07.1
Canopus	263 52.6	S 52 42.6	Rasalhague	96 00.4	N 12 32.6
Sirius	258 27.1	S 16 44.5	Etamin	90 43.4	N 51 28.9
Adhara	255 06.7	S 29 00.3	Kaus Australis	83 35.0	S 34 22.3
Castor	245 58.7	N 31 50.3	Vega	80 34.8	N 38 48.0
Procyon	244 52.0	N 05 10.3	Nunki	75 50.1	S 26 16.1
Pollux	243 18.6	N 27 58.2	Albireo	67 05.7	N 28 00.4
Avior	234 14.7	S 59 34.9	Altair	62 02.0	N 08 55.5
Suhail	222 47.0	S 43 31.4	Peacock	53 08.9	S 56 39.7
Miaplacidus	221 37.5	S 69 48.6	Deneb	49 27.4	N 45 21.7
Alphard	217 49.0	S 08 45.5	Enif	33 40.7	N 09 58.7
Regulus	207 35.8	N 11 51.2	Alnair	27 35.4	S 46 51.1
Dubhe	193 42.4	N 61 37.4	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.3	N 14 26.6	Markab	13 31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 26 of 365		day 27 of 365		day 28 of 365		day 29 of 365		day 30 of 365		
	<b>January 26</b>		<b>January 27</b>		<b>January 28</b>		<b>January 29</b>		<b>January 30</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	125 01.8	+02.5	126 00.9	+02.5	127 00.1	+02.5	127 59.2	+02.5	128 58.4	+02.4	00
01	140 04.3	+02.4	141 03.4	+02.5	142 02.6	+02.4	143 01.7	+02.5	144 00.8	+02.5	01
02	155 06.7	+02.5	156 05.9	+02.4	157 05.0	+02.5	158 04.2	+02.4	159 03.3	+02.5	02
03	170 09.2	+02.5	171 08.3	+02.5	172 07.5	+02.4	173 06.6	+02.5	174 05.8	+02.4	03
04	185 11.7	+02.4	186 10.8	+02.5	187 09.9	+02.5	188 09.1	+02.4	189 08.2	+02.5	04
05	200 14.1	+02.5	201 13.3	+02.4	202 12.4	+02.5	203 11.5	+02.5	204 10.7	+02.4	05
06	215 16.6	+02.5	216 15.7	+02.5	217 14.9	+02.4	218 14.0	+02.5	219 13.1	+02.5	06
07	230 19.1	+02.4	231 18.2	+02.5	232 17.3	+02.5	233 16.5	+02.4	234 15.6	+02.5	07
08	245 21.5	+02.5	246 20.7	+02.4	247 19.8	+02.5	248 18.9	+02.5	249 18.1	+02.4	08
09	260 24.0	+02.5	261 23.1	+02.5	262 22.3	+02.4	263 21.4	+02.5	264 20.5	+02.5	09
10	275 26.5	+02.4	276 25.6	+02.5	277 24.7	+02.5	278 23.9	+02.4	279 23.0	+02.5	10
11	290 28.9	+02.5	291 28.1	+02.4	292 27.2	+02.5	293 26.3	+02.5	294 25.5	+02.4	11
12	305 31.4	+02.4	306 30.5	+02.5	307 29.7	+02.4	308 28.8	+02.5	309 27.9	+02.5	12
13	320 33.8	+02.5	321 33.0	+02.4	322 32.1	+02.5	323 31.3	+02.4	324 30.4	+02.5	13
14	335 36.3	+02.5	336 35.4	+02.5	337 34.6	+02.4	338 33.7	+02.5	339 32.9	+02.4	14
15	350 38.8	+02.4	351 37.9	+02.5	352 37.0	+02.5	353 36.2	+02.5	354 35.3	+02.5	15
16	5 41.2	+02.5	6 40.4	+02.4	7 39.5	+02.5	8 38.7	+02.4	9 37.8	+02.5	16
17	20 43.7	+02.5	21 42.8	+02.5	22 42.0	+02.4	23 41.1	+02.5	24 40.3	+02.4	17
18	35 46.2	+02.4	36 45.3	+02.5	37 44.4	+02.5	38 43.6	+02.4	39 42.7	+02.5	18
19	50 48.6	+02.5	51 47.8	+02.4	52 46.9	+02.5	53 46.0	+02.5	54 45.2	+02.4	19
20	65 51.1	+02.5	66 50.2	+02.5	67 49.4	+02.4	68 48.5	+02.5	69 47.6	+02.5	20
21	80 53.6	+02.4	81 52.7	+02.5	82 51.8	+02.5	83 51.0	+02.4	84 50.1	+02.5	21
22	95 56.0	+02.5	96 55.2	+02.4	97 54.3	+02.5	98 53.4	+02.5	99 52.6	+02.4	22
23	110 58.5	+02.4	111 57.6	+02.5	112 56.8	+02.4	113 55.9	+02.5	114 55.0	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.1	Gienah	175 45.0	S 17 40.1
Ankaa	353 09.0	S 42 11.0	Acrux	173 01.5	S 63 13.3
Schedir	349 33.1	N 56 40.0	Gacrux	171 53.2	S 57 14.2
Diphda	348 49.1	S 17 51.8	Alioth	166 14.3	N 55 49.8
Achernar	335 21.5	S 57 07.5	Spica	158 23.9	S 11 16.9
Hamal	327 53.1	N 23 34.4	Alkaid	152 53.2	N 49 11.6
Polaris	314 43.2	N 89 22.0	Hadar	148 38.2	S 60 28.7
Acamar	315 12.9	S 40 13.0	Menkent	147 59.2	S 36 28.5
Menkar	314 07.7	N 04 10.8	Arcturus	145 49.0	N 19 04.3
Mirfak	308 30.4	N 49 56.7	Rigel Kentaurus	139 39.9	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 57.8	S 16 08.2
Capella	280 23.9	N 46 01.5	Kocab	137 19.9	N 74 03.3
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.3	N 26 38.1
Bellatrix	278 24.3	N 06 22.2	Antares	112 18.1	S 26 28.9
Elnath	278 03.6	N 28 37.7	Atria	107 14.1	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 53.6	N 07 24.6	Shaula	96 12.9	S 37 07.1
Canopus	263 52.6	S 52 42.6	Rasalhague	96 00.3	N 12 32.5
Sirius	258 27.1	S 16 44.5	Etamin	90 43.4	N 51 28.9
Adhara	255 06.8	S 29 00.3	Kaus Australis	83 35.0	S 34 22.3
Castor	245 58.6	N 31 50.3	Vega	80 34.8	N 38 48.0
Procyon	244 52.0	N 05 10.3	Nunki	75 50.1	S 26 16.1
Pollux	243 18.5	N 27 58.2	Albireo	67 05.7	N 28 00.3
Avior	234 14.7	S 59 35.0	Altair	62 02.0	N 08 55.5
Suhail	222 47.0	S 43 31.5	Peacock	53 08.9	S 56 39.7
Miaplacidus	221 37.5	S 69 48.6	Deneb	49 27.4	N 45 21.7
Alphard	217 49.0	S 08 45.5	Enif	33 40.7	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.4	S 46 51.1
Dubhe	193 42.3	N 61 37.4	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.2	N 14 26.5	Markab	13 31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 31 of 365		day 32 of 365		day 33 of 365		day 34 of 365		day 35 of 365			
	<b>January 31</b>		<b>February 1</b>		<b>February 2</b>		<b>February 3</b>		<b>February 4</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	129	57.5	+02.5	130	56.6	+02.5	131	55.8	+02.4	132	54.9	+02.5
01	144	60.0	+02.4	145	59.1	+02.5	146	58.2	+02.5	147	57.4	+02.5
02	160	02.4	+02.5	161	01.6	+02.4	162	00.7	+02.5	162	59.9	+02.4
03	175	04.9	+02.5	176	04.0	+02.5	177	03.2	+02.4	178	02.3	+02.5
04	190	07.4	+02.4	191	06.5	+02.5	192	05.6	+02.5	193	04.8	+02.4
05	205	09.8	+02.5	206	09.0	+02.4	207	08.1	+02.5	208	07.2	+02.5
06	220	12.3	+02.5	221	11.4	+02.5	222	10.6	+02.4	223	09.7	+02.5
07	235	14.8	+02.4	236	13.9	+02.5	237	13.0	+02.5	238	12.2	+02.4
08	250	17.2	+02.5	251	16.4	+02.4	252	15.5	+02.5	253	14.6	+02.5
09	265	19.7	+02.4	266	18.8	+02.5	267	18.0	+02.4	268	17.1	+02.5
10	280	22.1	+02.5	281	21.3	+02.5	282	20.4	+02.5	283	19.6	+02.4
11	295	24.6	+02.5	296	23.8	+02.4	297	22.9	+02.5	298	22.0	+02.5
12	310	27.1	+02.4	311	26.2	+02.5	312	25.4	+02.4	313	24.5	+02.5
13	325	29.5	+02.5	326	28.7	+02.4	327	27.8	+02.5	328	27.0	+02.4
14	340	32.0	+02.5	341	31.1	+02.5	342	30.3	+02.4	343	29.4	+02.5
15	355	34.5	+02.4	356	33.6	+02.5	357	32.7	+02.5	358	31.9	+02.5
16	10	36.9	+02.5	11	36.1	+02.4	12	35.2	+02.5	13	34.4	+02.4
17	25	39.4	+02.5	26	38.5	+02.5	27	37.7	+02.4	28	36.8	+02.5
18	40	41.9	+02.4	41	41.0	+02.5	42	40.1	+02.5	43	39.3	+02.4
19	55	44.3	+02.5	56	43.5	+02.4	57	42.6	+02.5	58	41.7	+02.5
20	70	46.8	+02.5	71	45.9	+02.5	72	45.1	+02.4	73	44.2	+02.5
21	85	49.3	+02.4	86	48.4	+02.5	87	47.5	+02.5	88	46.7	+02.4
22	100	51.7	+02.5	101	50.9	+02.4	102	50.0	+02.5	103	49.1	+02.5
23	115	54.2	+02.4	116	53.3	+02.5	117	52.5	+02.4	118	51.6	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.1	Gienah	175 45.0	S 17 40.2
Ankaa	353 09.1	S 42 11.0	Acrux	173 01.5	S 63 13.3
Schedir	349 33.2	N 56 40.0	Gacrux	171 53.2	S 57 14.2
Diphda	348 49.1	S 17 51.8	Alioth	166 14.2	N 55 49.8
Achernar	335 21.6	S 57 07.5	Spica	158 23.9	S 11 16.9
Hamal	327 53.1	N 23 34.3	Alkaid	152 53.1	N 49 11.6
Polaris	314 45.5	N 89 22.0	Hadar	148 38.2	S 60 28.7
Acamar	315 12.9	S 40 13.0	Menkent	147 59.2	S 36 28.6
Menkar	314 07.8	N 04 10.7	Arcturus	145 49.0	N 19 04.3
Mirfak	308 30.4	N 49 56.7	Rigel Kentaurus	139 39.8	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 57.8	S 16 08.2
Capella	280 24.0	N 46 01.5	Kocab	137 19.8	N 74 03.3
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.2	N 26 38.0
Bellatrix	278 24.3	N 06 22.2	Antares	112 18.1	S 26 28.9
Elnath	278 03.6	N 28 37.7	Atria	107 14.0	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 04.8	S 15 45.2
Betelgeuze	270 53.6	N 07 24.6	Shaula	96 12.8	S 37 07.1
Canopus	263 52.7	S 52 42.6	Rasalhague	96 00.3	N 12 32.5
Sirius	258 27.1	S 16 44.5	Etamin	90 43.3	N 51 28.9
Adhara	255 06.8	S 29 00.3	Kaus Australis	83 35.0	S 34 22.3
Castor	245 58.6	N 31 50.3	Vega	80 34.8	N 38 48.0
Procyon	244 52.0	N 05 10.3	Nunki	75 50.1	S 26 16.1
Pollux	243 18.5	N 27 58.2	Albireo	67 05.7	N 28 00.3
Avior	234 14.7	S 59 35.0	Altair	62 02.0	N 08 55.5
Suhail	222 47.0	S 43 31.5	Peacock	53 08.8	S 56 39.7
Miaplacidus	221 37.5	S 69 48.6	Deneb	49 27.4	N 45 21.6
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Regulus	207 35.7	N 11 51.2	Alnair	27 35.4	S 46 51.1
Dubhe	193 42.3	N 61 37.4	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.2	N 14 26.5	Markab	13 31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 36 of 365		day 37 of 365		day 38 of 365		day 39 of 365		day 40 of 365			
	<b>February 5</b>		<b>February 6</b>		<b>February 7</b>		<b>February 8</b>		<b>February 9</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	134	53.2	+02.5	135	52.3	+02.5	136	51.5	+02.4	137	50.6	+02.5
01	149	55.7	+02.4	150	54.8	+02.5	151	53.9	+02.5	152	53.1	+02.4
02	164	58.1	+02.5	165	57.3	+02.4	166	56.4	+02.5	167	55.5	+02.5
03	180	00.6	+02.5	180	59.7	+02.5	181	58.9	+02.4	182	58.0	+02.5
04	195	03.1	+02.4	196	02.2	+02.5	197	01.3	+02.5	198	00.5	+02.4
05	210	05.5	+02.5	211	04.7	+02.4	212	03.8	+02.5	213	02.9	+02.5
06	225	08.0	+02.5	226	07.1	+02.5	227	06.3	+02.4	228	05.4	+02.5
07	240	10.5	+02.4	241	09.6	+02.5	242	08.7	+02.5	243	07.9	+02.4
08	255	12.9	+02.5	256	12.1	+02.4	257	11.2	+02.5	258	10.3	+02.5
09	270	15.4	+02.4	271	14.5	+02.5	272	13.7	+02.4	273	12.8	+02.5
10	285	17.8	+02.5	286	17.0	+02.4	287	16.1	+02.5	288	15.3	+02.4
11	300	20.3	+02.5	301	19.4	+02.5	302	18.6	+02.5	303	17.7	+02.5
12	315	22.8	+02.4	316	21.9	+02.5	317	21.1	+02.4	318	20.2	+02.5
13	330	25.2	+02.5	331	24.4	+02.4	332	23.5	+02.5	333	22.7	+02.4
14	345	27.7	+02.5	346	26.8	+02.5	347	26.0	+02.4	348	25.1	+02.5
15	0	30.2	+02.4	1	29.3	+02.5	2	28.4	+02.5	3	27.6	+02.4
16	15	32.6	+02.5	16	31.8	+02.4	17	30.9	+02.5	18	30.0	+02.5
17	30	35.1	+02.5	31	34.2	+02.5	32	33.4	+02.4	33	32.5	+02.5
18	45	37.6	+02.4	46	36.7	+02.5	47	35.8	+02.5	48	35.0	+02.4
19	60	40.0	+02.5	61	39.2	+02.4	62	38.3	+02.5	63	37.4	+02.5
20	75	42.5	+02.5	76	41.6	+02.5	77	40.8	+02.4	78	39.9	+02.5
21	90	45.0	+02.4	91	44.1	+02.5	92	43.2	+02.5	93	42.4	+02.4
22	105	47.4	+02.5	106	46.6	+02.4	107	45.7	+02.5	108	44.8	+02.5
23	120	49.9	+02.4	121	49.0	+02.5	122	48.2	+02.4	123	47.3	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.1	Gienah	175 44.9	S 17 40.2
Ankaa	353 09.1	S 42 11.0	Acrux	173 01.4	S 63 13.4
Schedir	349 33.2	N 56 40.0	Gacrux	171 53.1	S 57 14.2
Diphda	348 49.1	S 17 51.8	Alioth	166 14.2	N 55 49.8
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Menkar	314 07.8	N 04 10.7	Arcturus	145 48.9	N 19 04.3
Mirfak	308 30.4	N 49 56.7	Rigel Kentaurus	139 39.7	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 57.7	S 16 08.2
Capella	280 24.0	N 46 01.5	Kocab	137 19.7	N 74 03.3
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.2	N 26 38.0
Bellatrix	278 24.4	N 06 22.2	Antares	112 18.0	S 26 28.9
Elnath	278 03.6	N 28 37.7	Atria	107 13.9	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 04.8	S 15 45.3
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Pollux	243 18.5	N 27 58.2	Albireo	67 05.7	N 28 00.3
Avior	234 14.7	S 59 35.0	Altair	62 02.0	N 08 55.5
Suhail	222 47.0	S 43 31.5	Peacock	53 08.8	S 56 39.7
Miaplacidus	221 37.5	S 69 48.7	Deneb	49 27.3	N 45 21.6
Alphard	217 49.0	S 08 45.6	Enif	33 40.7	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.4	S 46 51.1
Dubhe	193 42.3	N 61 37.4	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.1	N 14 26.5	Markab	13 31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 41 of 365		day 42 of 365		day 43 of 365		day 44 of 365		day 45 of 365			
	<b>February 10</b>		<b>February 11</b>		<b>February 12</b>		<b>February 13</b>		<b>February 14</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	139	48.9	+02.5	140	48.0	+02.5	141	47.2	+02.4	142	46.3	+02.5
01	154	51.4	+02.4	155	50.5	+02.5	156	49.6	+02.5	157	48.8	+02.4
02	169	53.8	+02.5	170	53.0	+02.4	171	52.1	+02.5	172	51.2	+02.5
03	184	56.3	+02.5	185	55.4	+02.5	186	54.6	+02.4	187	53.7	+02.5
04	199	58.8	+02.4	200	57.9	+02.5	201	57.0	+02.5	202	56.2	+02.4
05	215	01.2	+02.5	216	00.4	+02.4	216	59.5	+02.5	217	58.6	+02.5
06	230	03.7	+02.4	231	02.8	+02.5	232	02.0	+02.4	233	01.1	+02.5
07	245	06.1	+02.5	246	05.3	+02.4	247	04.4	+02.5	248	03.6	+02.4
08	260	08.6	+02.5	261	07.7	+02.5	262	06.9	+02.4	263	06.0	+02.5
09	275	11.1	+02.4	276	10.2	+02.5	277	09.3	+02.5	278	08.5	+02.4
10	290	13.5	+02.5	291	12.7	+02.4	292	11.8	+02.5	293	10.9	+02.5
11	305	16.0	+02.5	306	15.1	+02.5	307	14.3	+02.4	308	13.4	+02.5
12	320	18.5	+02.4	321	17.6	+02.5	322	16.7	+02.5	323	15.9	+02.4
13	335	20.9	+02.5	336	20.1	+02.4	337	19.2	+02.5	338	18.3	+02.5
14	350	23.4	+02.5	351	22.5	+02.5	352	21.7	+02.4	353	20.8	+02.5
15	5	25.9	+02.4	6	25.0	+02.5	7	24.1	+02.5	8	23.3	+02.4
16	20	28.3	+02.5	21	27.5	+02.4	22	26.6	+02.5	23	25.7	+02.5
17	35	30.8	+02.4	36	29.9	+02.5	37	29.1	+02.4	38	28.2	+02.5
18	50	33.2	+02.5	51	32.4	+02.4	52	31.5	+02.5	53	30.7	+02.4
19	65	35.7	+02.5	66	34.8	+02.5	67	34.0	+02.5	68	33.1	+02.5
20	80	38.2	+02.4	81	37.3	+02.5	82	36.5	+02.4	83	35.6	+02.5
21	95	40.6	+02.5	96	39.8	+02.4	97	38.9	+02.5	98	38.1	+02.4
22	110	43.1	+02.5	111	42.2	+02.5	112	41.4	+02.4	113	40.5	+02.5
23	125	45.6	+02.4	126	44.7	+02.5	127	43.8	+02.5	128	43.0	+02.4

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.1	Gienah	175 44.9	S 17 40.2
Ankaa	353 09.1	S 42 11.0	Acrux	173 01.4	S 63 13.4
Schedir	349 33.2	N 56 40.0	Gacrux	171 53.1	S 57 14.2
Diphda	348 49.2	S 17 51.8	Alioth	166 14.1	N 55 49.8
Achernar	335 21.7	S 57 07.5	Spica	158 23.8	S 11 16.9
Hamal	327 53.1	N 23 34.3	Alkaid	152 53.0	N 49 11.6
Polaris	314 50.5	N 89 22.0	Hadar	148 38.0	S 60 28.8
Acamar	315 13.0	S 40 13.0	Menkent	147 59.1	S 36 28.6
Menkar	314 07.8	N 04 10.7	Arcturus	145 48.9	N 19 04.3
Mirfak	308 30.5	N 49 56.7	Rigel Kentaurus	139 39.7	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 57.7	S 16 08.2
Capella	280 24.0	N 46 01.5	Kocab	137 19.6	N 74 03.3
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.2	N 26 38.0
Bellatrix	278 24.4	N 06 22.2	Antares	112 18.0	S 26 28.9
Elnath	278 03.7	N 28 37.7	Atria	107 13.8	S 69 03.9
Alnilam	275 39.1	S 01 11.3	Sabik	102 04.8	S 15 45.3
Betelgeuze	270 53.6	N 07 24.6	Shaula	96 12.7	S 37 07.1
Canopus	263 52.7	S 52 42.7	Rasalhague	96 00.2	N 12 32.5
Sirius	258 27.2	S 16 44.5	Etamin	90 43.3	N 51 28.8
Adhara	255 06.8	S 29 00.3	Kaus Australis	83 34.9	S 34 22.3
Castor	245 58.6	N 31 50.3	Vega	80 34.7	N 38 47.9
Procyon	244 52.0	N 05 10.3	Nunki	75 50.0	S 26 16.1
Pollux	243 18.5	N 27 58.2	Albireo	67 05.7	N 28 00.3
Avior	234 14.7	S 59 35.1	Altair	62 02.0	N 08 55.4
Suhail	222 47.0	S 43 31.6	Peacock	53 08.8	S 56 39.6
Miaplacidus	221 37.5	S 69 48.7	Deneb	49 27.3	N 45 21.6
Alphard	217 49.0	S 08 45.6	Enif	33 40.7	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.4	S 46 51.1
Dubhe	193 42.2	N 61 37.5	Formalhaut	15 16.7	S 29 30.2
Denebola	182 26.1	N 14 26.5	Markab	13 31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 46 of 365		day 47 of 365		day 48 of 365		day 49 of 365		day 50 of 365			
	<b>February 15</b>		<b>February 16</b>		<b>February 17</b>		<b>February 18</b>		<b>February 19</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	144	44.6	+02.5	145	43.7	+02.5	146	42.9	+02.4	147	42.0	+02.5
01	159	47.1	+02.4	160	46.2	+02.5	161	45.3	+02.5	162	44.5	+02.4
02	174	49.5	+02.5	175	48.7	+02.4	176	47.8	+02.5	177	46.9	+02.5
03	189	52.0	+02.4	190	51.1	+02.5	191	50.3	+02.4	192	49.4	+02.5
04	204	54.4	+02.5	205	53.6	+02.4	206	52.7	+02.5	207	51.9	+02.4
05	219	56.9	+02.5	220	56.0	+02.5	221	55.2	+02.5	222	54.3	+02.5
06	234	59.4	+02.4	235	58.5	+02.5	236	57.7	+02.4	237	56.8	+02.5
07	250	01.8	+02.5	251	01.0	+02.4	252	00.1	+02.5	252	59.3	+02.4
08	265	04.3	+02.5	266	03.4	+02.5	267	02.6	+02.4	268	01.7	+02.5
09	280	06.8	+02.4	281	05.9	+02.5	282	05.0	+02.5	283	04.2	+02.5
10	295	09.2	+02.5	296	08.4	+02.4	297	07.5	+02.5	298	06.7	+02.4
11	310	11.7	+02.5	311	10.8	+02.5	312	10.0	+02.4	313	09.1	+02.5
12	325	14.2	+02.4	326	13.3	+02.5	327	12.4	+02.5	328	11.6	+02.4
13	340	16.6	+02.5	341	15.8	+02.4	342	14.9	+02.5	343	14.0	+02.5
14	355	19.1	+02.4	356	18.2	+02.5	357	17.4	+02.4	358	16.5	+02.5
15	10	21.5	+02.5	11	20.7	+02.5	12	19.8	+02.5	13	19.0	+02.4
16	25	24.0	+02.5	26	23.2	+02.4	27	22.3	+02.5	28	21.4	+02.5
17	40	26.5	+02.4	41	25.6	+02.5	42	24.8	+02.4	43	23.9	+02.5
18	55	28.9	+02.5	56	28.1	+02.4	57	27.2	+02.5	58	26.4	+02.4
19	70	31.4	+02.5	71	30.5	+02.5	72	29.7	+02.5	73	28.8	+02.5
20	85	33.9	+02.4	86	33.0	+02.5	87	32.2	+02.4	88	31.3	+02.5
21	100	36.3	+02.5	101	35.5	+02.4	102	34.6	+02.5	103	33.8	+02.4
22	115	38.8	+02.5	116	37.9	+02.5	117	37.1	+02.4	118	36.2	+02.5
23	130	41.3	+02.4	131	40.4	+02.5	132	39.5	+02.5	133	38.7	+02.4

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.1	Gienah	175 44.9	S 17 40.2
Ankaa	353 09.1	S 42 11.0	Acrux	173 01.3	S 63 13.4
Schedir	349 33.3	N 56 39.9	Gacrux	171 53.0	S 57 14.3
Diphda	348 49.2	S 17 51.8	Alioth	166 14.1	N 55 49.8
Achernar	335 21.7	S 57 07.5	Spica	158 23.8	S 11 16.9
Hamal	327 53.2	N 23 34.3	Alkaid	152 53.0	N 49 11.6
Polaris	314 52.7	N 89 22.0	Hadar	148 38.0	S 60 28.8
Acamar	315 13.0	S 40 13.0	Menkent	147 59.0	S 36 28.6
Menkar	314 07.8	N 04 10.7	Arcturus	145 48.8	N 19 04.3
Mirfak	308 30.5	N 49 56.7	Rigel Kentaurus	139 39.6	S 60 55.8
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 57.6	S 16 08.2
Capella	280 24.0	N 46 01.5	Kocab	137 19.5	N 74 03.3
Rigel	281 05.2	S 08 10.6	Alphecca	126 05.1	N 26 38.0
Bellatrix	278 24.4	N 06 22.2	Antares	112 18.0	S 26 28.9
Elnath	278 03.7	N 28 37.7	Atria	107 13.7	S 69 03.8
Alnilam	275 39.2	S 01 11.3	Sabik	102 04.7	S 15 45.3
Betelgeuze	270 53.6	N 07 24.6	Shaula	96 12.7	S 37 07.1
Canopus	263 52.7	S 52 42.7	Rasalhague	96 00.2	N 12 32.5
Sirius	258 27.2	S 16 44.5	Etamin	90 43.2	N 51 28.8
Adhara	255 06.8	S 29 00.3	Kaus Australis	83 34.8	S 34 22.3
Castor	245 58.7	N 31 50.3	Vega	80 34.7	N 38 47.9
Procyon	244 52.0	N 05 10.3	Nunki	75 50.0	S 26 16.1
Pollux	243 18.5	N 27 58.2	Albireo	67 05.6	N 28 00.3
Avior	234 14.8	S 59 35.1	Altair	62 02.0	N 08 55.4
Suhail	222 47.0	S 43 31.6	Peacock	53 08.7	S 56 39.6
Miaplacidus	221 37.5	S 69 48.7	Deneb	49 27.3	N 45 21.6
Alphard	217 49.0	S 08 45.6	Enif	33 40.7	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.4	S 46 51.1
Dubhe	193 42.2	N 61 37.5	Formalhaut	15 16.7	S 29 30.1
Denebola	182 26.1	N 14 26.5	Markab	13 31.8	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 51 of 365		day 52 of 365		day 53 of 365		day 54 of 365		day 55 of 365			
	<b>February 20</b>		<b>February 21</b>		<b>February 22</b>		<b>February 23</b>		<b>February 24</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	149	40.3	+02.5	150	39.4	+02.5	151	38.6	+02.4	152	37.7	+02.5
01	164	42.8	+02.4	165	41.9	+02.5	166	41.0	+02.5	167	40.2	+02.4
02	179	45.2	+02.5	180	44.4	+02.4	181	43.5	+02.5	182	42.6	+02.5
03	194	47.7	+02.4	195	46.8	+02.5	196	46.0	+02.4	197	45.1	+02.5
04	209	50.1	+02.5	210	49.3	+02.4	211	48.4	+02.5	212	47.6	+02.4
05	224	52.6	+02.5	225	51.7	+02.5	226	50.9	+02.4	227	50.0	+02.5
06	239	55.1	+02.4	240	54.2	+02.5	241	53.3	+02.5	242	52.5	+02.4
07	254	57.5	+02.5	255	56.7	+02.4	256	55.8	+02.5	257	54.9	+02.5
08	270	00.0	+02.5	270	59.1	+02.5	271	58.3	+02.4	272	57.4	+02.5
09	285	02.5	+02.4	286	01.6	+02.5	287	00.7	+02.5	287	59.9	+02.4
10	300	04.9	+02.5	301	04.1	+02.4	302	03.2	+02.5	303	02.3	+02.5
11	315	07.4	+02.5	316	06.5	+02.5	317	05.7	+02.4	318	04.8	+02.5
12	330	09.9	+02.4	331	09.0	+02.5	332	08.1	+02.5	333	07.3	+02.4
13	345	12.3	+02.5	346	11.5	+02.4	347	10.6	+02.5	348	09.7	+02.5
14	0	14.8	+02.4	1	13.9	+02.5	2	13.1	+02.4	3	12.2	+02.5
15	15	17.2	+02.5	16	16.4	+02.5	17	15.5	+02.5	18	14.7	+02.4
16	30	19.7	+02.5	31	18.9	+02.4	32	18.0	+02.5	33	17.1	+02.5
17	45	22.2	+02.4	46	21.3	+02.5	47	20.5	+02.4	48	19.6	+02.5
18	60	24.6	+02.5	61	23.8	+02.4	62	22.9	+02.5	63	22.1	+02.4
19	75	27.1	+02.5	76	26.2	+02.5	77	25.4	+02.4	78	24.5	+02.5
20	90	29.6	+02.4	91	28.7	+02.5	92	27.8	+02.5	93	27.0	+02.4
21	105	32.0	+02.5	106	31.2	+02.4	107	30.3	+02.5	108	29.4	+02.5
22	120	34.5	+02.5	121	33.6	+02.5	122	32.8	+02.4	123	31.9	+02.5
23	135	37.0	+02.4	136	36.1	+02.5	137	35.2	+02.5	138	34.4	+02.4

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357	36.7	N 29	13.1	
Ankaa	353	09.1	S 42	11.0	
Schedir	349	33.3	N 56	39.9	
Diphda	348	49.2	S 17	51.8	
Achernar	335	21.7	S 57	07.5	
Hamal	327	53.2	N 23	34.3	
Polaris	314	55.0	N 89	22.0	
Acamar	315	13.0	S 40	13.0	
Menkar	314	07.8	N 04	10.7	
Mirfak	308	30.5	N 49	56.7	
Aldebaran	290	41.4	N 16	33.4	
Capella	280	24.0	N 46	01.6	
Rigel	281	05.2	S 08	10.6	
Bellatrix	278	24.4	N 06	22.2	
Elnath	278	03.7	N 28	37.7	
Alnilam	275	39.2	S 01	11.3	
Betelgeuze	270	53.6	N 07	24.6	
Canopus	263	52.8	S 52	42.7	
Sirius	258	27.2	S 16	44.5	
Adhara	255	06.8	S 29	00.4	
Castor	245	58.7	N 31	50.3	
Procyon	244	52.0	N 05	10.3	
Pollux	243	18.5	N 27	58.2	
Avior	234	14.8	S 59	35.1	
Suhail	222	47.0	S 43	31.6	
Miaplacidus	221	37.5	S 69	48.8	
Alphard	217	48.9	S 08	45.6	
Regulus	207	35.7	N 11	51.2	
Dubhe	193	42.1	N 61	37.5	
Denebola	182	26.1	N 14	26.5	
Gienah	175	44.9	S 17	40.2	
Acrux	173	01.3	S 63	13.4	
Gacrux	171	53.0	S 57	14.3	
Alioth	166	14.0	N 55	49.8	
Spica	158	23.7	S 11	16.9	
Alkaid	152	52.9	N 49	11.6	
Hadar	148	37.9	S 60	28.8	
Menkent	147	59.0	S 36	28.6	
Arcturus	145	48.8	N 19	04.3	
Rigel Kentaurus	139	39.5	S 60	55.8	
Zubenelgenubi	136	57.6	S 16	08.2	
Kocab	137	19.4	N 74	03.3	
Alphecca	126	05.1	N 26	38.0	
Antares	112	17.9	S 26	28.9	
Atria	107	13.6	S 69	03.8	
Sabik	102	04.7	S 15	45.3	
Shaula	96	12.6	S 37	07.1	
Rasalhague	96	00.2	N 12	32.5	
Etamin	90	43.2	N 51	28.8	
Kaus Australis	83	34.8	S 34	22.3	
Vega	80	34.6	N 38	47.9	
Nunki	75	49.9	S 26	16.1	
Albireo	67	05.6	N 28	00.2	
Altair	62	01.9	N 08	55.4	
Peacock	53	08.7	S 56	39.6	
Deneb	49	27.3	N 45	21.5	
Enif	33	40.7	N 09	58.7	
Alnair	27	35.4	S 46	51.0	
Formalhaut	15	16.7	S 29	30.1	
Markab	13	31.8	N 15	19.7	

# 2023 - First Point of Aries / Selected Stars

	day 56 of 365		day 57 of 365		day 58 of 365		day 59 of 365		day 60 of 365			
UT	GHA	ddGHA	UT									
00	154	36.0	+02.4	155	35.1	+02.5	156	34.3	+02.4	157	33.4	+02.5
01	169	38.4	+02.5	170	37.6	+02.4	171	36.7	+02.5	172	35.9	+02.4
02	184	40.9	+02.5	185	40.0	+02.5	186	39.2	+02.4	187	38.3	+02.5
03	199	43.4	+02.4	200	42.5	+02.5	201	41.6	+02.5	202	40.8	+02.4
04	214	45.8	+02.5	215	45.0	+02.4	216	44.1	+02.5	217	43.2	+02.5
05	229	48.3	+02.5	230	47.4	+02.5	231	46.6	+02.4	232	45.7	+02.5
06	244	50.8	+02.4	245	49.9	+02.5	246	49.0	+02.5	247	48.2	+02.4
07	259	53.2	+02.5	260	52.4	+02.4	261	51.5	+02.5	262	50.6	+02.5
08	274	55.7	+02.5	275	54.8	+02.5	276	54.0	+02.4	277	53.1	+02.5
09	289	58.2	+02.4	290	57.3	+02.5	291	56.4	+02.5	292	55.6	+02.4
10	305	00.6	+02.5	305	59.8	+02.4	306	58.9	+02.5	307	58.0	+02.5
11	320	03.1	+02.4	321	02.2	+02.5	322	01.4	+02.4	323	00.5	+02.5
12	335	05.5	+02.5	336	04.7	+02.4	337	03.8	+02.5	338	03.0	+02.4
13	350	08.0	+02.5	351	07.1	+02.5	352	06.3	+02.5	353	05.4	+02.5
14	5	10.5	+02.4	6	09.6	+02.5	7	08.8	+02.4	8	07.9	+02.5
15	20	12.9	+02.5	21	12.1	+02.4	22	11.2	+02.5	23	10.4	+02.4
16	35	15.4	+02.5	36	14.5	+02.5	37	13.7	+02.4	38	12.8	+02.5
17	50	17.9	+02.4	51	17.0	+02.5	52	16.1	+02.5	53	15.3	+02.4
18	65	20.3	+02.5	66	19.5	+02.4	67	18.6	+02.5	68	17.7	+02.5
19	80	22.8	+02.5	81	21.9	+02.5	82	21.1	+02.4	83	20.2	+02.5
20	95	25.3	+02.4	96	24.4	+02.5	97	23.5	+02.5	98	22.7	+02.4
21	110	27.7	+02.5	111	26.9	+02.4	112	26.0	+02.5	113	25.1	+02.5
22	125	30.2	+02.4	126	29.3	+02.5	127	28.5	+02.4	128	27.6	+02.5
23	140	32.6	+02.5	141	31.8	+02.5	142	30.9	+02.5	143	30.1	+02.4

	SHA	Dec		SHA	Dec		
	° ,'	° ,'		° ,'	° ,'		
Alpheratz	357	36.7	N 29 13.1	Gienah	175	44.8	S 17 40.2
Ankaa	353	09.1	S 42 10.9	Acrux	173	01.2	S 63 13.5
Schedir	349	33.3	N 56 39.9	Gacrux	171	52.9	S 57 14.3
Diphda	348	49.2	S 17 51.8	Alioth	166	14.0	N 55 49.9
Achernar	335	21.8	S 57 07.5	Spica	158	23.7	S 11 16.9
Hamal	327	53.2	N 23 34.3	Alkaid	152	52.9	N 49 11.6
Polaris	314	57.6	N 89 22.0	Hadar	148	37.8	S 60 28.8
Acamar	315	13.0	S 40 13.0	Menkent	147	58.9	S 36 28.6
Menkar	314	07.9	N 04 10.7	Arcturus	145	48.8	N 19 04.3
Mirfak	308	30.6	N 49 56.7	Rigel Kentaurus	139	39.5	S 60 55.8
Aldebaran	290	41.4	N 16 33.4	Zubenelgenubi	136	57.6	S 16 08.2
Capella	280	24.1	N 46 01.6	Kocab	137	19.3	N 74 03.3
Rigel	281	05.3	S 08 10.6	Alphecca	126	05.0	N 26 38.0
Bellatrix	278	24.4	N 06 22.2	Antares	112	17.9	S 26 28.9
Elnath	278	03.7	N 28 37.7	Atria	107	13.5	S 69 03.8
Alnilam	275	39.2	S 01 11.3	Sabik	102	04.6	S 15 45.3
Betelgeuze	270	53.6	N 07 24.6	Shaula	96	12.6	S 37 07.1
Canopus	263	52.8	S 52 42.7	Rasalhague	96	00.1	N 12 32.5
Sirius	258	27.2	S 16 44.6	Etamin	90	43.1	N 51 28.8
Adhara	255	06.8	S 29 00.4	Kaus Australis	83	34.8	S 34 22.3
Castor	245	58.7	N 31 50.3	Vega	80	34.6	N 38 47.9
Procyon	244	52.0	N 05 10.2	Nunki	75	49.9	S 26 16.1
Pollux	243	18.6	N 27 58.3	Albireo	67	05.6	N 28 00.2
Avior	234	14.8	S 59 35.1	Altair	62	01.9	N 08 55.4
Suhail	222	47.0	S 43 31.6	Peacock	53	08.7	S 56 39.6
Miaplacidus	221	37.6	S 69 48.8	Deneb	49	27.3	N 45 21.5
Alphard	217	49.0	S 08 45.6	Enif	33	40.6	N 09 58.7
Regulus	207	35.6	N 11 51.2	Alnair	27	35.4	S 46 51.0
Dubhe	193	42.1	N 61 37.5	Formalhaut	15	16.7	S 29 30.1
Denebola	182	26.1	N 14 26.5	Markab	13	31.8	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	GHA	ddGHA	00									
01	° ,	,	° ,	,	° ,	,	° ,	,	° ,	,	01	
02	159	31.7	+02.4	160	30.8	+02.5	161	30.0	+02.4	162	29.1	+02.5
03	174	34.1	+02.5	175	33.3	+02.4	176	32.4	+02.5	177	31.6	+02.4
04	189	36.6	+02.5	190	35.7	+02.5	191	34.9	+02.4	192	34.0	+02.5
05	204	39.1	+02.4	205	38.2	+02.5	206	37.3	+02.5	207	36.5	+02.4
06	219	41.5	+02.5	220	40.7	+02.4	221	39.8	+02.5	222	38.9	+02.5
07	234	44.0	+02.5	235	43.1	+02.5	236	42.3	+02.4	237	41.4	+02.5
08	249	46.5	+02.4	250	45.6	+02.5	251	44.7	+02.5	252	43.9	+02.4
09	264	48.9	+02.5	265	48.1	+02.4	266	47.2	+02.5	267	46.3	+02.5
10	279	51.4	+02.4	280	50.5	+02.5	281	49.7	+02.4	282	48.8	+02.5
11	294	53.8	+02.5	295	53.0	+02.5	296	52.1	+02.5	297	51.3	+02.4
12	309	56.3	+02.5	310	55.5	+02.4	311	54.6	+02.5	312	53.7	+02.5
13	324	58.8	+02.4	325	57.9	+02.5	326	57.1	+02.4	327	56.2	+02.5
14	340	01.2	+02.5	341	00.4	+02.4	341	59.5	+02.5	342	58.7	+02.4
15	355	03.7	+02.5	356	02.8	+02.5	357	02.0	+02.4	358	01.1	+02.5
16	10	06.2	+02.4	11	05.3	+02.5	12	04.4	+02.5	13	03.6	+02.5
17	25	08.6	+02.5	26	07.8	+02.4	27	06.9	+02.5	28	06.1	+02.4
18	40	11.1	+02.5	41	10.2	+02.5	42	09.4	+02.4	43	08.5	+02.5
19	55	13.6	+02.4	56	12.7	+02.5	57	11.8	+02.5	58	11.0	+02.4
20	70	16.0	+02.5	71	15.2	+02.4	72	14.3	+02.5	73	13.4	+02.5
21	85	18.5	+02.5	86	17.6	+02.5	87	16.8	+02.4	88	15.9	+02.5
22	100	21.0	+02.4	101	20.1	+02.5	102	19.2	+02.5	103	18.4	+02.4
23	115	23.4	+02.5	116	22.6	+02.4	117	21.7	+02.5	118	20.8	+02.5
	130	25.9	+02.4	131	25.0	+02.5	132	24.2	+02.4	133	23.3	+02.5
	145	28.3	+02.5	146	27.5	+02.5	147	26.6	+02.5	148	25.8	+02.4
	149	24.9	+02.5				149	24.9	+02.5			

	SHA	Dec		SHA	Dec		
	° ,	° ,		° ,	° ,		
Alpheratz	357	36.7	N 29 13.1	Gienah	175	44.8	S 17 40.3
Ankaa	353	09.1	S 42 10.9	Acrux	173	01.2	S 63 13.5
Schedir	349	33.3	N 56 39.9	Gacrux	171	52.9	S 57 14.4
Diphda	348	49.2	S 17 51.8	Alioth	166	13.9	N 55 49.9
Achernar	335	21.8	S 57 07.4	Spica	158	23.7	S 11 17.0
Hamal	327	53.2	N 23 34.3	Alkaid	152	52.8	N 49 11.6
Polaris	314	59.6	N 89 22.0	Hadar	148	37.8	S 60 28.9
Acamar	315	13.1	S 40 13.0	Menkent	147	58.9	S 36 28.7
Menkar	314	07.9	N 04 10.7	Arcturus	145	48.7	N 19 04.3
Mirfak	308	30.6	N 49 56.7	Rigel Kentaurus	139	39.4	S 60 55.8
Aldebaran	290	41.4	N 16 33.4	Zubenelgenubi	136	57.5	S 16 08.3
Capella	280	24.1	N 46 01.6	Kocab	137	19.2	N 74 03.3
Rigel	281	05.3	S 08 10.7	Alphecca	126	05.0	N 26 38.0
Bellatrix	278	24.4	N 06 22.2	Antares	112	17.8	S 26 28.9
Elnath	278	03.7	N 28 37.7	Atria	107	13.4	S 69 03.8
Alnilam	275	39.2	S 01 11.3	Sabik	102	04.6	S 15 45.3
Betelgeuze	270	53.6	N 07 24.6	Shaula	96	12.5	S 37 07.1
Canopus	263	52.9	S 52 42.7	Rasalhague	96	00.1	N 12 32.5
Sirius	258	27.2	S 16 44.6	Etamin	90	43.1	N 51 28.8
Adhara	255	06.8	S 29 00.4	Kaus Australis	83	34.7	S 34 22.3
Castor	245	58.7	N 31 50.3	Vega	80	34.5	N 38 47.9
Procyon	244	52.0	N 05 10.2	Nunki	75	49.9	S 26 16.1
Pollux	243	18.6	N 27 58.3	Albireo	67	05.5	N 28 00.2
Avior	234	14.8	S 59 35.2	Altair	62	01.9	N 08 55.4
Suhail	222	47.0	S 43 31.7	Peacock	53	08.6	S 56 39.6
Miaplacidus	221	37.6	S 69 48.8	Deneb	49	27.2	N 45 21.5
Alphard	217	49.0	S 08 45.6	Enif	33	40.6	N 09 58.7
Regulus	207	35.6	N 11 51.2	Alnair	27	35.3	S 46 51.0
Dubhe	193	42.1	N 61 37.5	Formalhaut	15	16.7	S 29 30.1
Denebola	182	26.0	N 14 26.5	Markab	13	31.8	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	164	27.4	+02.4	165	26.5	+02.5	166	25.6	+02.5	167	24.8	+02.4
03	179	29.8	+02.5	180	29.0	+02.4	181	28.1	+02.5	182	27.2	+02.5
04	194	32.3	+02.5	195	31.4	+02.5	196	30.6	+02.4	197	29.7	+02.5
05	209	34.8	+02.4	210	33.9	+02.5	211	33.0	+02.5	212	32.2	+02.4
06	224	37.2	+02.5	225	36.4	+02.4	226	35.5	+02.5	227	34.6	+02.5
07	239	39.7	+02.4	240	38.8	+02.5	241	38.0	+02.4	242	37.1	+02.5
08	254	42.1	+02.5	255	41.3	+02.4	256	40.4	+02.5	257	39.6	+02.4
09	269	44.6	+02.5	270	43.7	+02.5	271	42.9	+02.4	272	42.0	+02.5
10	284	47.1	+02.4	285	46.2	+02.5	286	45.3	+02.5	287	44.5	+02.5
11	299	49.5	+02.5	300	48.7	+02.4	301	47.8	+02.5	302	47.0	+02.4
12	314	52.0	+02.5	315	51.1	+02.5	316	50.3	+02.4	317	49.4	+02.5
13	329	54.5	+02.4	330	53.6	+02.5	331	52.7	+02.5	332	51.9	+02.4
14	344	56.9	+02.5	345	56.1	+02.4	346	55.2	+02.5	347	54.3	+02.5
15	359	59.4	+02.5	0	58.5	+02.5	1	57.7	+02.4	2	56.8	+02.5
16	15	01.9	+02.4	16	01.0	+02.5	17	00.1	+02.5	17	59.3	+02.4
17	30	04.3	+02.5	31	03.5	+02.4	32	02.6	+02.5	33	01.7	+02.5
18	45	06.8	+02.5	46	05.9	+02.5	47	05.1	+02.4	48	04.2	+02.5
19	60	09.3	+02.4	61	08.4	+02.5	62	07.5	+02.5	63	06.7	+02.4
20	75	11.7	+02.5	76	10.9	+02.4	77	10.0	+02.5	78	09.1	+02.5
21	90	14.2	+02.4	91	13.3	+02.5	92	12.5	+02.4	93	11.6	+02.5
22	105	16.6	+02.5	106	15.8	+02.4	107	14.9	+02.5	108	14.1	+02.4
23	120	19.1	+02.5	121	18.2	+02.5	122	17.4	+02.4	123	16.5	+02.5
	135	21.6	+02.4	136	20.7	+02.5	137	19.8	+02.5	138	19.0	+02.4
	150	24.0	+02.5	151	23.2	+02.4	152	22.3	+02.5	153	21.4	+02.5
	154	20.6	+02.4				155	21.4	+02.5			

	SHA	Dec		SHA	Dec		
	°	,	°	,	°		
Alpheratz	357	36.8	N 29 13.0	Gienah	175	44.8	S 17 40.3
Ankaa	353	09.1	S 42 10.9	Acrux	173	01.2	S 63 13.5
Schedir	349	33.3	N 56 39.9	Gacrux	171	52.9	S 57 14.4
Diphda	348	49.2	S 17 51.8	Alioth	166	13.9	N 55 49.9
Achernar	335	21.8	S 57 07.4	Spica	158	23.6	S 11 17.0
Hamal	327	53.2	N 23 34.3	Alkaid	152	52.8	N 49 11.6
Polaris	315	01.9	N 89 22.0	Hadar	148	37.7	S 60 28.9
Acamar	315	13.1	S 40 13.0	Menkent	147	58.9	S 36 28.7
Menkar	314	07.9	N 04 10.7	Arcturus	145	48.7	N 19 04.3
Mirfak	308	30.6	N 49 56.7	Rigel Kentaurus	139	39.3	S 60 55.8
Aldebaran	290	41.4	N 16 33.4	Zubenelgenubi	136	57.5	S 16 08.3
Capella	280	24.1	N 46 01.6	Kocab	137	19.1	N 74 03.3
Rigel	281	05.3	S 08 10.6	Alphecca	126	05.0	N 26 38.0
Bellatrix	278	24.5	N 06 22.2	Antares	112	17.8	S 26 29.0
Elnath	278	03.8	N 28 37.7	Atria	107	13.3	S 69 03.9
Alnilam	275	39.2	S 01 11.3	Sabik	102	04.6	S 15 45.3
Betelgeuze	270	53.7	N 07 24.6	Shaula	96	12.5	S 37 07.1
Canopus	263	52.9	S 52 42.7	Rasalhague	96	00.0	N 12 32.4
Sirius	258	27.2	S 16 44.6	Etamin	90	43.0	N 51 28.8
Adhara	255	06.9	S 29 00.4	Kaus Australis	83	34.7	S 34 22.3
Castor	245	58.7	N 31 50.3	Vega	80	34.5	N 38 47.9
Procyon	244	52.0	N 05 10.2	Nunki	75	49.8	S 26 16.1
Pollux	243	18.6	N 27 58.3	Albireo	67	05.5	N 28 00.2
Avior	234	14.9	S 59 35.2	Altair	62	01.8	N 08 55.4
Suhail	222	47.0	S 43 31.7	Peacock	53	08.6	S 56 39.5
Miaplacidus	221	37.6	S 69 48.9	Deneb	49	27.2	N 45 21.5
Alphard	217	49.0	S 08 45.6	Enif	33	40.6	N 09 58.7
Regulus	207	35.6	N 11 51.2	Alnair	27	35.3	S 46 51.0
Dubhe	193	42.1	N 61 37.6	Formalhaut	15	16.7	S 29 30.1
Denebola	182	26.0	N 14 26.5	Markab	13	31.8	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	GHA	ddGHA	00									
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01	
02	169	23.0	+02.5	170	22.2	+02.5	171	21.3	+02.5	172	20.5	+02.4
03	184	25.5	+02.5	185	24.7	+02.4	186	23.8	+02.5	187	22.9	+02.5
04	199	28.0	+02.4	200	27.1	+02.5	201	26.3	+02.4	202	25.4	+02.5
05	214	30.4	+02.5	215	29.6	+02.4	216	28.7	+02.5	217	27.9	+02.4
06	229	32.9	+02.5	230	32.0	+02.5	231	31.2	+02.4	232	30.3	+02.5
07	244	35.4	+02.4	245	34.5	+02.5	246	33.6	+02.5	247	32.8	+02.5
08	259	37.8	+02.5	260	37.0	+02.4	261	36.1	+02.5	262	35.3	+02.4
09	274	40.3	+02.5	275	39.4	+02.5	276	38.6	+02.4	277	37.7	+02.5
10	289	42.8	+02.4	290	41.9	+02.5	291	41.0	+02.5	292	40.2	+02.4
11	304	45.2	+02.5	305	44.4	+02.4	306	43.5	+02.5	307	42.6	+02.5
12	319	47.7	+02.5	320	46.8	+02.5	321	46.0	+02.4	322	45.1	+02.5
13	334	50.2	+02.4	335	49.3	+02.5	336	48.4	+02.5	337	47.6	+02.4
14	349	52.6	+02.5	350	51.8	+02.4	351	50.9	+02.5	352	50.0	+02.5
15	4	55.1	+02.4	5	54.2	+02.5	6	53.4	+02.4	7	52.5	+02.5
16	19	57.5	+02.5	20	56.7	+02.4	21	55.8	+02.5	22	55.0	+02.4
17	35	00.0	+02.5	35	59.1	+02.5	36	58.3	+02.5	37	57.4	+02.5
18	50	02.5	+02.4	51	01.6	+02.5	52	00.8	+02.4	52	59.9	+02.5
19	65	04.9	+02.5	66	04.1	+02.4	67	03.2	+02.5	68	02.4	+02.4
20	80	07.4	+02.5	81	06.5	+02.5	82	05.7	+02.4	83	04.8	+02.5
21	95	09.9	+02.4	96	09.0	+02.5	97	08.1	+02.5	98	07.3	+02.5
22	110	12.3	+02.5	111	11.5	+02.4	112	10.6	+02.5	113	09.8	+02.4
23	125	14.8	+02.5	126	13.9	+02.5	127	13.1	+02.4	128	12.2	+02.5
	140	17.3	+02.4	141	16.4	+02.5	142	15.5	+02.5	143	14.7	+02.4
	155	19.7	+02.5	156	18.9	+02.4	157	18.0	+02.5	158	17.1	+02.5

	SHA	Dec	SHA	Dec					
	° ,'	° ,'	° ,'	° ,'					
Alpheratz	357	36.8	N 29	13.0	Gienah	175	44.8	S 17	40.3
Ankaa	353	09.1	S 42	10.9	Acrux	173	01.1	S 63	13.6
Schedir	349	33.4	N 56	39.8	Gacrux	171	52.8	S 57	14.4
Diphda	348	49.2	S 17	51.8	Alioth	166	13.9	N 55	49.9
Achernar	335	21.8	S 57	07.4	Spica	158	23.6	S 11	17.0
Hamal	327	53.2	N 23	34.3	Alkaid	152	52.8	N 49	11.7
Polaris	315	04.1	N 89	22.0	Hadar	148	37.7	S 60	28.9
Acamar	315	13.1	S 40	13.0	Menkent	147	58.8	S 36	28.7
Menkar	314	07.9	N 04	10.7	Arcturus	145	48.7	N 19	04.3
Mirfak	308	30.7	N 49	56.7	Rigel Kentaurus	139	39.3	S 60	55.9
Aldebaran	290	41.4	N 16	33.4	Zubenelgenubi	136	57.5	S 16	08.3
Capella	280	24.2	N 46	01.6	Kocab	137	19.0	N 74	03.3
Rigel	281	05.3	S 08	10.7	Alphecca	126	04.9	N 26	38.0
Bellatrix	278	24.5	N 06	22.2	Antares	112	17.7	S 26	29.0
Elnath	278	03.8	N 28	37.7	Atria	107	13.2	S 69	03.9
Alnilam	275	39.3	S 01	11.3	Sabik	102	04.5	S 15	45.3
Betelgeuze	270	53.7	N 07	24.6	Shaula	96	12.5	S 37	07.1
Canopus	263	52.9	S 52	42.7	Rasalhague	96	00.0	N 12	32.4
Sirius	258	27.3	S 16	44.6	Etamin	90	43.0	N 51	28.8
Adhara	255	06.9	S 29	00.4	Kaus Australis	83	34.6	S 34	22.3
Castor	245	58.7	N 31	50.3	Vega	80	34.5	N 38	47.8
Procyon	244	52.0	N 05	10.2	Nunki	75	49.8	S 26	16.1
Pollux	243	18.6	N 27	58.3	Albireo	67	05.5	N 28	00.2
Avior	234	14.9	S 59	35.2	Altair	62	01.8	N 08	55.4
Suhail	222	47.1	S 43	31.7	Peacock	53	08.5	S 56	39.5
Miaplacidus	221	37.7	S 69	48.9	Deneb	49	27.2	N 45	21.5
Alphard	217	49.0	S 08	45.6	Enif	33	40.6	N 09	58.7
Regulus	207	35.6	N 11	51.2	Alnair	27	35.3	S 46	50.9
Dubhe	193	42.1	N 61	37.6	Formalhaut	15	16.7	S 29	30.1
Denebola	182	26.0	N 14	26.5	Markab	13	31.8	N 15	19.6

# 2023 - First Point of Aries / Selected Stars

	day 76 of 365		day 77 of 365		day 78 of 365		day 79 of 365		day 80 of 365			
	<b>March 17</b>		<b>March 18</b>		<b>March 19</b>		<b>March 20</b>		<b>March 21</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	174	18.7	+02.5	175	17.9	+02.5	176	17.0	+02.5	177	16.2	+02.4
01	189	21.2	+02.5	190	20.4	+02.4	191	19.5	+02.5	192	18.6	+02.5
02	204	23.7	+02.4	205	22.8	+02.5	206	22.0	+02.4	207	21.1	+02.5
03	219	26.1	+02.5	220	25.3	+02.4	221	24.4	+02.5	222	23.6	+02.4
04	234	28.6	+02.5	235	27.7	+02.5	236	26.9	+02.4	237	26.0	+02.5
05	249	31.1	+02.4	250	30.2	+02.5	251	29.3	+02.5	252	28.5	+02.4
06	264	33.5	+02.5	265	32.7	+02.4	266	31.8	+02.5	267	30.9	+02.5
07	279	36.0	+02.5	280	35.1	+02.5	281	34.3	+02.4	282	33.4	+02.5
08	294	38.5	+02.4	295	37.6	+02.5	296	36.7	+02.5	297	35.9	+02.4
09	309	40.9	+02.5	310	40.1	+02.4	311	39.2	+02.5	312	38.3	+02.5
10	324	43.4	+02.5	325	42.5	+02.5	326	41.7	+02.4	327	40.8	+02.5
11	339	45.9	+02.4	340	45.0	+02.5	341	44.1	+02.5	342	43.3	+02.4
12	354	48.3	+02.5	355	47.5	+02.4	356	46.6	+02.5	357	45.7	+02.5
13	9	50.8	+02.4	10	49.9	+02.5	11	49.1	+02.4	12	48.2	+02.5
14	24	53.2	+02.5	25	52.4	+02.4	26	51.5	+02.5	27	50.7	+02.4
15	39	55.7	+02.5	40	54.8	+02.5	41	54.0	+02.5	42	53.1	+02.5
16	54	58.2	+02.4	55	57.3	+02.5	56	56.5	+02.4	57	55.6	+02.5
17	70	00.6	+02.5	70	59.8	+02.4	71	58.9	+02.5	72	58.1	+02.4
18	85	03.1	+02.5	86	02.2	+02.5	87	01.4	+02.4	88	00.5	+02.5
19	100	05.6	+02.4	101	04.7	+02.5	102	03.8	+02.5	103	03.0	+02.4
20	115	08.0	+02.5	116	07.2	+02.4	117	06.3	+02.5	118	05.4	+02.5
21	130	10.5	+02.5	131	09.6	+02.5	132	08.8	+02.4	133	07.9	+02.5
22	145	13.0	+02.4	146	12.1	+02.5	147	11.2	+02.5	148	10.4	+02.4
23	160	15.4	+02.5	161	14.6	+02.4	162	13.7	+02.5	163	12.8	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.0	Gienah	175 44.8	S 17 40.3
Ankaa	353 09.1	S 42 10.9	Acrux	173 01.1	S 63 13.6
Schedir	349 33.4	N 56 39.8	Gacrux	171 52.8	S 57 14.4
Diphda	348 49.2	S 17 51.8	Alioth	166 13.9	N 55 49.9
Achernar	335 21.9	S 57 07.4	Spica	158 23.6	S 11 17.0
Hamal	327 53.2	N 23 34.3	Alkaid	152 52.7	N 49 11.7
Polaris	315 05.7	N 89 21.9	Hadar	148 37.6	S 60 28.9
Acamar	315 13.1	S 40 13.0	Menkent	147 58.8	S 36 28.7
Menkar	314 07.9	N 04 10.7	Arcturus	145 48.6	N 19 04.3
Mirfak	308 30.7	N 49 56.7	Rigel Kentaurus	139 39.2	S 60 55.9
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 24.2	N 46 01.6	Kocab	137 18.9	N 74 03.3
Rigel	281 05.4	S 08 10.7	Alphecca	126 04.9	N 26 38.0
Bellatrix	278 24.5	N 06 22.2	Antares	112 17.7	S 26 29.0
Elnath	278 03.8	N 28 37.7	Atria	107 13.1	S 69 03.9
Alnilam	275 39.3	S 01 11.4	Sabik	102 04.5	S 15 45.3
Betelgeuze	270 53.7	N 07 24.6	Shaula	96 12.4	S 37 07.1
Canopus	263 53.0	S 52 42.7	Rasalhague	95 60.0	N 12 32.4
Sirius	258 27.3	S 16 44.6	Etamin	90 42.9	N 51 28.8
Adhara	255 06.9	S 29 00.4	Kaus Australis	83 34.6	S 34 22.3
Castor	245 58.7	N 31 50.3	Vega	80 34.4	N 38 47.8
Procyon	244 52.0	N 05 10.2	Nunki	75 49.7	S 26 16.1
Pollux	243 18.6	N 27 58.3	Albireo	67 05.4	N 28 00.2
Avior	234 15.0	S 59 35.2	Altair	62 01.8	N 08 55.4
Suhail	222 47.1	S 43 31.7	Peacock	53 08.5	S 56 39.5
Miaplacidus	221 37.7	S 69 48.9	Deneb	49 27.2	N 45 21.5
Alphard	217 49.0	S 08 45.7	Enif	33 40.6	N 09 58.7
Regulus	207 35.6	N 11 51.2	Alnair	27 35.3	S 46 50.9
Dubhe	193 42.1	N 61 37.6	Formalhaut	15 16.7	S 29 30.0
Denebola	182 26.0	N 14 26.5	Markab	13 31.7	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 81 of 365		day 82 of 365		day 83 of 365		day 84 of 365		day 85 of 365			
	<b>March 22</b>		<b>March 23</b>		<b>March 24</b>		<b>March 25</b>		<b>March 26</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	179	14.4	+02.5	180	13.6	+02.4	181	12.7	+02.5	182	11.9	+02.4
01	194	16.9	+02.5	195	16.0	+02.5	196	15.2	+02.4	197	14.3	+02.5
02	209	19.4	+02.4	210	18.5	+02.5	211	17.6	+02.5	212	16.8	+02.4
03	224	21.8	+02.5	225	21.0	+02.4	226	20.1	+02.5	227	19.2	+02.5
04	239	24.3	+02.5	240	23.4	+02.5	241	22.6	+02.4	242	21.7	+02.5
05	254	26.8	+02.4	255	25.9	+02.5	256	25.0	+02.5	257	24.2	+02.4
06	269	29.2	+02.5	270	28.4	+02.4	271	27.5	+02.5	272	26.6	+02.5
07	284	31.7	+02.5	285	30.8	+02.5	286	30.0	+02.4	287	29.1	+02.5
08	299	34.2	+02.4	300	33.3	+02.5	301	32.4	+02.5	302	31.6	+02.4
09	314	36.6	+02.5	315	35.8	+02.4	316	34.9	+02.5	317	34.0	+02.5
10	329	39.1	+02.4	330	38.2	+02.5	331	37.4	+02.4	332	36.5	+02.5
11	344	41.5	+02.5	345	40.7	+02.4	346	39.8	+02.5	347	39.0	+02.4
12	359	44.0	+02.5	0	43.1	+02.5	1	42.3	+02.4	2	41.4	+02.5
13	14	46.5	+02.4	15	45.6	+02.5	16	44.7	+02.5	17	43.9	+02.4
14	29	48.9	+02.5	30	48.1	+02.4	31	47.2	+02.5	32	46.3	+02.5
15	44	51.4	+02.5	45	50.5	+02.5	46	49.7	+02.4	47	48.8	+02.5
16	59	53.9	+02.4	60	53.0	+02.5	61	52.1	+02.5	62	51.3	+02.4
17	74	56.3	+02.5	75	55.5	+02.4	76	54.6	+02.5	77	53.7	+02.5
18	89	58.8	+02.5	90	57.9	+02.5	91	57.1	+02.4	92	56.2	+02.5
19	105	01.3	+02.4	106	00.4	+02.5	106	59.5	+02.5	107	58.7	+02.4
20	120	03.7	+02.5	121	02.9	+02.4	122	02.0	+02.5	123	01.1	+02.5
21	135	06.2	+02.4	136	05.3	+02.5	137	04.5	+02.4	138	03.6	+02.5
22	150	08.6	+02.5	151	07.8	+02.4	152	06.9	+02.5	153	06.1	+02.4
23	165	11.1	+02.5	166	10.2	+02.5	167	09.4	+02.5	168	08.5	+02.5

	SHA	Dec		SHA	Dec		
	° , '	° , '		° , '	° , '		
Alpheratz	357	36.7	N 29 13.0	Gienah	175	44.8	S 17 40.3
Ankaa	353	09.1	S 42 10.8	Acrux	173	01.1	S 63 13.6
Schedir	349	33.4	N 56 39.8	Gacrux	171	52.8	S 57 14.5
Diphda	348	49.2	S 17 51.8	Alioth	166	13.8	N 55 49.9
Achernar	335	21.9	S 57 07.3	Spica	158	23.6	S 11 17.0
Hamal	327	53.3	N 23 34.3	Alkaid	152	52.7	N 49 11.7
Polaris	315	07.7	N 89 21.9	Hadar	148	37.6	S 60 29.0
Acamar	315	13.2	S 40 13.0	Menkent	147	58.8	S 36 28.7
Menkar	314	07.9	N 04 10.7	Arcturus	145	48.6	N 19 04.3
Mirfak	308	30.7	N 49 56.7	Rigel Kentaurus	139	39.2	S 60 55.9
Aldebaran	290	41.5	N 16 33.4	Zubenelgenubi	136	57.4	S 16 08.3
Capella	280	24.2	N 46 01.6	Kocab	137	18.8	N 74 03.3
Rigel	281	05.4	S 08 10.6	Alphecca	126	04.8	N 26 38.0
Bellatrix	278	24.5	N 06 22.2	Antares	112	17.7	S 26 29.0
Elnath	278	03.8	N 28 37.7	Atria	107	13.0	S 69 03.9
Alnilam	275	39.3	S 01 11.3	Sabik	102	04.4	S 15 45.3
Betelgeuze	270	53.7	N 07 24.6	Shaula	96	12.4	S 37 07.1
Canopus	263	53.0	S 52 42.7	Rasalhague	95	59.9	N 12 32.4
Sirius	258	27.3	S 16 44.6	Etamin	90	42.9	N 51 28.8
Adhara	255	06.9	S 29 00.4	Kaus Australis	83	34.5	S 34 22.3
Castor	245	58.8	N 31 50.4	Vega	80	34.4	N 38 47.8
Procyon	244	52.0	N 05 10.2	Nunki	75	49.7	S 26 16.1
Pollux	243	18.6	N 27 58.3	Albireo	67	05.4	N 28 00.2
Avior	234	15.0	S 59 35.3	Altair	62	01.7	N 08 55.4
Suhail	222	47.1	S 43 31.7	Peacock	53	08.4	S 56 39.5
Miaplacidus	221	37.8	S 69 48.9	Deneb	49	27.1	N 45 21.4
Alphard	217	49.0	S 08 45.7	Enif	33	40.5	N 09 58.7
Regulus	207	35.6	N 11 51.2	Alnair	27	35.2	S 46 50.9
Dubhe	193	42.1	N 61 37.6	Formalhaut	15	16.6	S 29 30.0
Denebola	182	26.0	N 14 26.5	Markab	13	31.7	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 86 of 365		day 87 of 365		day 88 of 365		day 89 of 365		day 90 of 365			
	<b>March 27</b>		<b>March 28</b>		<b>March 29</b>		<b>March 30</b>		<b>March 31</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	184	10.1	+02.5	185	09.3	+02.4	186	08.4	+02.5	187	07.5	+02.5
01	199	12.6	+02.5	200	11.7	+02.5	201	10.9	+02.4	202	10.0	+02.5
02	214	15.1	+02.4	215	14.2	+02.5	216	13.3	+02.5	217	12.5	+02.4
03	229	17.5	+02.5	230	16.7	+02.4	231	15.8	+02.5	232	14.9	+02.5
04	244	20.0	+02.4	245	19.1	+02.5	246	18.3	+02.4	247	17.4	+02.5
05	259	22.4	+02.5	260	21.6	+02.5	261	20.7	+02.5	262	19.9	+02.4
06	274	24.9	+02.5	275	24.1	+02.4	276	23.2	+02.5	277	22.3	+02.5
07	289	27.4	+02.4	290	26.5	+02.5	291	25.7	+02.4	292	24.8	+02.5
08	304	29.8	+02.5	305	29.0	+02.4	306	28.1	+02.5	307	27.3	+02.4
09	319	32.3	+02.5	320	31.4	+02.5	321	30.6	+02.4	322	29.7	+02.5
10	334	34.8	+02.4	335	33.9	+02.5	336	33.0	+02.5	337	32.2	+02.5
11	349	37.2	+02.5	350	36.4	+02.4	351	35.5	+02.5	352	34.7	+02.4
12	4	39.7	+02.5	5	38.8	+02.5	6	38.0	+02.4	7	37.1	+02.5
13	19	42.2	+02.4	20	41.3	+02.5	21	40.4	+02.5	22	39.6	+02.4
14	34	44.6	+02.5	35	43.8	+02.4	36	42.9	+02.5	37	42.0	+02.5
15	49	47.1	+02.5	50	46.2	+02.5	51	45.4	+02.4	52	44.5	+02.5
16	64	49.6	+02.4	65	48.7	+02.5	66	47.8	+02.5	67	47.0	+02.4
17	79	52.0	+02.5	80	51.2	+02.4	81	50.3	+02.5	82	49.4	+02.5
18	94	54.5	+02.4	95	53.6	+02.5	96	52.8	+02.4	97	51.9	+02.5
19	109	56.9	+02.5	110	56.1	+02.5	111	55.2	+02.5	112	54.4	+02.4
20	124	59.4	+02.5	125	58.6	+02.4	126	57.7	+02.5	127	56.8	+02.5
21	140	01.9	+02.4	141	01.0	+02.5	142	00.2	+02.4	142	59.3	+02.5
22	155	04.3	+02.5	156	03.5	+02.4	157	02.6	+02.5	158	01.8	+02.4
23	170	06.8	+02.5	171	05.9	+02.5	172	05.1	+02.4	173	04.2	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.0	Gienah	175 44.7	S 17 40.3
Ankaa	353 09.1	S 42 10.8	Acrux	173 01.1	S 63 13.7
Schedir	349 33.4	N 56 39.8	Gacrux	171 52.8	S 57 14.5
Diphda	348 49.2	S 17 51.8	Alioth	166 13.8	N 55 50.0
Achernar	335 21.9	S 57 07.3	Spica	158 23.6	S 11 17.0
Hamal	327 53.3	N 23 34.3	Alkaid	152 52.7	N 49 11.7
Polaris	315 09.1	N 89 21.9	Hadar	148 37.6	S 60 29.0
Acamar	315 13.2	S 40 13.0	Menkent	147 58.7	S 36 28.8
Menkar	314 08.0	N 04 10.7	Arcturus	145 48.6	N 19 04.3
Mirfak	308 30.8	N 49 56.7	Rigel Kentaurus	139 39.1	S 60 55.9
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 24.3	N 46 01.5	Kocab	137 18.8	N 74 03.4
Rigel	281 05.4	S 08 10.6	Alphecca	126 04.8	N 26 38.0
Bellatrix	278 24.5	N 06 22.2	Antares	112 17.6	S 26 29.0
Elnath	278 03.9	N 28 37.7	Atria	107 12.9	S 69 03.9
Alnilam	275 39.3	S 01 11.3	Sabik	102 04.4	S 15 45.3
Betelgeuze	270 53.8	N 07 24.6	Shaula	96 12.3	S 37 07.1
Canopus	263 53.1	S 52 42.8	Rasalhague	95 59.9	N 12 32.4
Sirius	258 27.3	S 16 44.6	Etamin	90 42.8	N 51 28.8
Adhara	255 07.0	S 29 00.4	Kaus Australis	83 34.5	S 34 22.3
Castor	245 58.8	N 31 50.4	Vega	80 34.3	N 38 47.8
Procyon	244 52.1	N 05 10.2	Nunki	75 49.7	S 26 16.1
Pollux	243 18.7	N 27 58.3	Albireo	67 05.4	N 28 00.2
Avior	234 15.0	S 59 35.3	Altair	62 01.7	N 08 55.4
Suhail	222 47.1	S 43 31.8	Peacock	53 08.4	S 56 39.5
Miaplacidus	221 37.8	S 69 49.0	Deneb	49 27.1	N 45 21.4
Alphard	217 49.0	S 08 45.7	Enif	33 40.5	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.2	S 46 50.9
Dubhe	193 42.1	N 61 37.6	Formalhaut	15 16.6	S 29 30.0
Denebola	182 26.0	N 14 26.5	Markab	13 31.7	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 91 of 365		day 92 of 365		day 93 of 365		day 94 of 365		day 95 of 365			
	<b>April 1</b>		<b>April 2</b>		<b>April 3</b>		<b>April 4</b>		<b>April 5</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	189	05.8	+02.5	190	05.0	+02.4	191	04.1	+02.5	192	03.2	+02.5
01	204	08.3	+02.5	205	07.4	+02.5	206	06.6	+02.4	207	05.7	+02.5
02	219	10.8	+02.4	220	09.9	+02.5	221	09.0	+02.5	222	08.2	+02.4
03	234	13.2	+02.5	235	12.4	+02.4	236	11.5	+02.5	237	10.6	+02.5
04	249	15.7	+02.4	250	14.8	+02.5	251	14.0	+02.4	252	13.1	+02.5
05	264	18.1	+02.5	265	17.3	+02.4	266	16.4	+02.5	267	15.6	+02.4
06	279	20.6	+02.5	280	19.7	+02.5	281	18.9	+02.4	282	18.0	+02.5
07	294	23.1	+02.4	295	22.2	+02.5	296	21.3	+02.5	297	20.5	+02.4
08	309	25.5	+02.5	310	24.7	+02.4	311	23.8	+02.5	312	22.9	+02.5
09	324	28.0	+02.5	325	27.1	+02.5	326	26.3	+02.4	327	25.4	+02.5
10	339	30.5	+02.4	340	29.6	+02.5	341	28.7	+02.5	342	27.9	+02.4
11	354	32.9	+02.5	355	32.1	+02.4	356	31.2	+02.5	357	30.3	+02.5
12	9	35.4	+02.5	10	34.5	+02.5	11	33.7	+02.4	12	32.8	+02.5
13	24	37.9	+02.4	25	37.0	+02.5	26	36.1	+02.5	27	35.3	+02.4
14	39	40.3	+02.5	40	39.5	+02.4	41	38.6	+02.5	42	37.7	+02.5
15	54	42.8	+02.5	55	41.9	+02.5	56	41.1	+02.4	57	40.2	+02.5
16	69	45.3	+02.4	70	44.4	+02.5	71	43.5	+02.5	72	42.7	+02.4
17	84	47.7	+02.5	85	46.9	+02.4	86	46.0	+02.5	87	45.1	+02.5
18	99	50.2	+02.4	100	49.3	+02.5	101	48.5	+02.4	102	47.6	+02.5
19	114	52.6	+02.5	115	51.8	+02.4	116	50.9	+02.5	117	50.1	+02.4
20	129	55.1	+02.5	130	54.2	+02.5	131	53.4	+02.4	132	52.5	+02.5
21	144	57.6	+02.4	145	56.7	+02.5	146	55.8	+02.5	147	55.0	+02.4
22	160	00.0	+02.5	160	59.2	+02.4	161	58.3	+02.5	162	57.4	+02.5
23	175	02.5	+02.5	176	01.6	+02.5	177	00.8	+02.4	177	59.9	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.0	Gienah	175 44.7	S 17 40.3
Ankaa	353 09.1	S 42 10.8	Acrux	173 01.1	S 63 13.7
Schedir	349 33.4	N 56 39.8	Gacrux	171 52.8	S 57 14.5
Diphda	348 49.2	S 17 51.7	Alioth	166 13.8	N 55 50.0
Achernar	335 21.9	S 57 07.3	Spica	158 23.5	S 11 17.0
Hamal	327 53.3	N 23 34.3	Alkaid	152 52.6	N 49 11.7
Polaris	315 10.3	N 89 21.9	Hadar	148 37.5	S 60 29.0
Acamar	315 13.2	S 40 12.9	Menkent	147 58.7	S 36 28.8
Menkar	314 08.0	N 04 10.7	Arcturus	145 48.6	N 19 04.3
Mirfak	308 30.8	N 49 56.7	Rigel Kentaurus	139 39.1	S 60 55.9
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 24.3	N 46 01.5	Kocab	137 18.7	N 74 03.4
Rigel	281 05.4	S 08 10.6	Alphecca	126 04.8	N 26 38.0
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.6	S 26 29.0
Elnath	278 03.9	N 28 37.7	Atria	107 12.8	S 69 03.9
Alnilam	275 39.3	S 01 11.3	Sabik	102 04.4	S 15 45.3
Betelgeuze	270 53.8	N 07 24.6	Shaula	96 12.3	S 37 07.1
Canopus	263 53.1	S 52 42.7	Rasalhague	95 59.9	N 12 32.4
Sirius	258 27.4	S 16 44.6	Etamin	90 42.8	N 51 28.8
Adhara	255 07.0	S 29 00.4	Kaus Australis	83 34.4	S 34 22.3
Castor	245 58.8	N 31 50.4	Vega	80 34.3	N 38 47.8
Procyon	244 52.1	N 05 10.2	Nunki	75 49.6	S 26 16.1
Pollux	243 18.7	N 27 58.3	Albireo	67 05.3	N 28 00.2
Avior	234 15.1	S 59 35.3	Altair	62 01.7	N 08 55.4
Suhail	222 47.1	S 43 31.8	Peacock	53 08.3	S 56 39.5
Miaplacidus	221 37.9	S 69 49.0	Deneb	49 27.0	N 45 21.4
Alphard	217 49.0	S 08 45.7	Enif	33 40.5	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.2	S 46 50.9
Dubhe	193 42.1	N 61 37.7	Formalhaut	15 16.6	S 29 30.0
Denebola	182 26.0	N 14 26.5	Markab	13 31.7	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 96 of 365		day 97 of 365		day 98 of 365		day 99 of 365		day 100 of 365			
	<b>April 6</b>		<b>April 7</b>		<b>April 8</b>		<b>April 9</b>		<b>April 10</b>			
<b>UT</b>	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	<b>UT</b>	
00	194	01.5	+02.5	195	00.6	+02.5	195	59.8	+02.4	196	58.9	+02.5
01	209	04.0	+02.4	210	03.1	+02.5	211	02.2	+02.5	212	01.4	+02.5
02	224	06.4	+02.5	225	05.6	+02.4	226	04.7	+02.5	227	03.9	+02.4
03	239	08.9	+02.5	240	08.0	+02.5	241	07.2	+02.4	242	06.3	+02.5
04	254	11.4	+02.4	255	10.5	+02.5	256	09.6	+02.5	257	08.8	+02.4
05	269	13.8	+02.5	270	13.0	+02.4	271	12.1	+02.5	272	11.2	+02.5
06	284	16.3	+02.5	285	15.4	+02.5	286	14.6	+02.4	287	13.7	+02.5
07	299	18.8	+02.4	300	17.9	+02.5	301	17.0	+02.5	302	16.2	+02.4
08	314	21.2	+02.5	315	20.4	+02.4	316	19.5	+02.5	317	18.6	+02.5
09	329	23.7	+02.5	330	22.8	+02.5	331	22.0	+02.4	332	21.1	+02.5
10	344	26.2	+02.4	345	25.3	+02.5	346	24.4	+02.5	347	23.6	+02.4
11	359	28.6	+02.5	0	27.8	+02.4	1	26.9	+02.5	2	26.0	+02.5
12	14	31.1	+02.4	15	30.2	+02.5	16	29.4	+02.4	17	28.5	+02.5
13	29	33.5	+02.5	30	32.7	+02.4	31	31.8	+02.5	32	31.0	+02.4
14	44	36.0	+02.5	45	35.1	+02.5	46	34.3	+02.4	47	33.4	+02.5
15	59	38.5	+02.4	60	37.6	+02.5	61	36.7	+02.5	62	35.9	+02.5
16	74	40.9	+02.5	75	40.1	+02.4	76	39.2	+02.5	77	38.4	+02.4
17	89	43.4	+02.5	90	42.5	+02.5	91	41.7	+02.4	92	40.8	+02.5
18	104	45.9	+02.4	105	45.0	+02.5	106	44.1	+02.5	107	43.3	+02.4
19	119	48.3	+02.5	120	47.5	+02.4	121	46.6	+02.5	122	45.7	+02.5
20	134	50.8	+02.5	135	49.9	+02.5	136	49.1	+02.4	137	48.2	+02.5
21	149	53.3	+02.4	150	52.4	+02.5	151	51.5	+02.5	152	50.7	+02.4
22	164	55.7	+02.5	165	54.9	+02.4	166	54.0	+02.5	167	53.1	+02.5
23	179	58.2	+02.4	180	57.3	+02.5	181	56.5	+02.4	182	55.6	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.7	N 29 13.0	Gienah	175 44.7	S 17 40.4
Ankaa	353 09.1	S 42 10.8	Acrux	173 01.1	S 63 13.7
Schedir	349 33.4	N 56 39.7	Gacrux	171 52.8	S 57 14.6
Diphda	348 49.2	S 17 51.7	Alioth	166 13.8	N 55 50.0
Achernar	335 21.9	S 57 07.3	Spica	158 23.5	S 11 17.0
Hamal	327 53.3	N 23 34.3	Alkaid	152 52.6	N 49 11.7
Polaris	315 11.8	N 89 21.9	Hadar	148 37.5	S 60 29.0
Acamar	315 13.2	S 40 12.9	Menkent	147 58.7	S 36 28.8
Menkar	314 08.0	N 04 10.7	Arcturus	145 48.6	N 19 04.3
Mirfak	308 30.8	N 49 56.6	Rigel Kentaurus	139 39.0	S 60 56.0
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 24.3	N 46 01.5	Kocab	137 18.7	N 74 03.4
Rigel	281 05.4	S 08 10.6	Alphecca	126 04.8	N 26 38.0
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.5	S 26 29.0
Elnath	278 03.9	N 28 37.7	Atria	107 12.7	S 69 03.9
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.3	S 15 45.3
Betelgeuze	270 53.8	N 07 24.6	Shaula	96 12.2	S 37 07.2
Canopus	263 53.2	S 52 42.7	Rasalhague	95 59.8	N 12 32.5
Sirius	258 27.4	S 16 44.6	Etamin	90 42.7	N 51 28.8
Adhara	255 07.0	S 29 00.4	Kaus Australis	83 34.4	S 34 22.3
Castor	245 58.8	N 31 50.4	Vega	80 34.3	N 38 47.8
Procyon	244 52.1	N 05 10.2	Nunki	75 49.6	S 26 16.1
Pollux	243 18.7	N 27 58.3	Albireo	67 05.3	N 28 00.2
Avior	234 15.1	S 59 35.3	Altair	62 01.6	N 08 55.4
Suhail	222 47.2	S 43 31.8	Peacock	53 08.2	S 56 39.4
Miaplacidus	221 38.0	S 69 49.0	Deneb	49 27.0	N 45 21.4
Alphard	217 49.0	S 08 45.7	Enif	33 40.5	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.1	S 46 50.8
Dubhe	193 42.1	N 61 37.7	Formalhaut	15 16.6	S 29 30.0
Denebola	182 26.0	N 14 26.5	Markab	13 31.7	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 101 of 365		day 102 of 365		day 103 of 365		day 104 of 365		day 105 of 365			
UT	April	11	April	12	April	13	April	14	April	15	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	198	57.2	+02.5	199	56.3	+02.5	200	55.5	+02.4	201	54.6	+02.5
03	213	59.7	+02.4	214	58.8	+02.5	215	57.9	+02.5	216	57.1	+02.5
04	229	02.1	+02.5	230	01.3	+02.4	231	00.4	+02.5	231	59.6	+02.4
05	244	04.6	+02.5	245	03.7	+02.5	246	02.9	+02.4	247	02.0	+02.5
06	259	07.1	+02.4	260	06.2	+02.5	261	05.3	+02.5	262	04.5	+02.4
07	274	09.5	+02.5	275	08.7	+02.4	276	07.8	+02.5	277	06.9	+02.5
08	289	12.0	+02.5	290	11.1	+02.5	291	10.3	+02.4	292	09.4	+02.5
09	304	14.5	+02.4	305	13.6	+02.5	306	12.7	+02.5	307	11.9	+02.4
10	319	16.9	+02.5	320	16.1	+02.4	321	15.2	+02.5	322	14.3	+02.5
11	334	19.4	+02.4	335	18.5	+02.5	336	17.7	+02.4	337	16.8	+02.5
12	349	21.8	+02.5	350	21.0	+02.5	351	20.1	+02.5	352	19.3	+02.4
13	4	24.3	+02.5	5	23.5	+02.4	6	22.6	+02.5	7	21.7	+02.5
14	19	26.8	+02.4	20	25.9	+02.5	21	25.1	+02.4	22	24.2	+02.5
15	34	29.2	+02.5	35	28.4	+02.4	36	27.5	+02.5	37	26.7	+02.4
16	49	31.7	+02.5	50	30.8	+02.5	51	30.0	+02.4	52	29.1	+02.5
17	64	34.2	+02.4	65	33.3	+02.5	66	32.4	+02.5	67	31.6	+02.5
18	79	36.6	+02.5	80	35.8	+02.4	81	34.9	+02.5	82	34.1	+02.4
19	94	39.1	+02.5	95	38.2	+02.5	96	37.4	+02.4	97	36.5	+02.5
20	109	41.6	+02.4	110	40.7	+02.5	111	39.8	+02.5	112	39.0	+02.4
21	124	44.0	+02.5	125	43.2	+02.4	126	42.3	+02.5	127	41.4	+02.5
22	139	46.5	+02.5	140	45.6	+02.5	141	44.8	+02.4	142	43.9	+02.5
23	154	49.0	+02.4	155	48.1	+02.5	156	47.2	+02.5	157	46.4	+02.4
	169	51.4	+02.5	170	50.6	+02.4	171	49.7	+02.5	172	48.8	+02.5
	184	53.9	+02.4	185	53.0	+02.5	186	52.2	+02.4	187	51.3	+02.5
	188	50.4	+02.5				188	50.4	+02.5			

	SHA	Dec		SHA	Dec						
	°	,	°	,	°						
Alpheratz	357	36.7	N	29	13.0	Gienah	175	44.7	S	17	40.4
Ankaa	353	09.1	S	42	10.7	Acrux	173	01.1	S	63	13.7
Schedir	349	33.3	N	56	39.7	Gacrux	171	52.8	S	57	14.6
Diphda	348	49.2	S	17	51.7	Alioth	166	13.8	N	55	50.0
Achernar	335	21.9	S	57	07.2	Spica	158	23.5	S	11	17.0
Hamal	327	53.3	N	23	34.3	Alkaid	152	52.6	N	49	11.8
Polaris	315	12.5	N	89	21.8	Hadar	148	37.5	S	60	29.1
Acamar	315	13.2	S	40	12.9	Menkent	147	58.7	S	36	28.8
Menkar	314	08.0	N	04	10.7	Arcturus	145	48.5	N	19	04.3
Mirfak	308	30.8	N	49	56.6	Rigel Kentaurus	139	39.0	S	60	56.0
Aldebaran	290	41.6	N	16	33.4	Zubenelgenubi	136	57.3	S	16	08.3
Capella	280	24.3	N	46	01.5	Kocab	137	18.6	N	74	03.4
Rigel	281	05.5	S	08	10.6	Alphecca	126	04.7	N	26	38.0
Bellatrix	278	24.6	N	06	22.2	Antares	112	17.5	S	26	29.0
Elnath	278	03.9	N	28	37.7	Atria	107	12.7	S	69	03.9
Alnilam	275	39.4	S	01	11.3	Sabik	102	04.3	S	15	45.3
Betelgeuze	270	53.8	N	07	24.6	Shaula	96	12.2	S	37	07.2
Canopus	263	53.2	S	52	42.7	Rasalhague	95	59.8	N	12	32.5
Sirius	258	27.4	S	16	44.6	Etamin	90	42.7	N	51	28.8
Adhara	255	07.1	S	29	00.4	Kaus Australis	83	34.3	S	34	22.3
Castor	245	58.9	N	31	50.4	Vega	80	34.2	N	38	47.9
Procyon	244	52.1	N	05	10.2	Nunki	75	49.5	S	26	16.0
Pollux	243	18.7	N	27	58.3	Albireo	67	05.3	N	28	00.2
Avior	234	15.2	S	59	35.3	Altair	62	01.6	N	08	55.4
Suhail	222	47.2	S	43	31.8	Peacock	53	08.2	S	56	39.4
Miaplacidus	221	38.0	S	69	49.0	Deneb	49	27.0	N	45	21.4
Alphard	217	49.0	S	08	45.7	Enif	33	40.4	N	09	58.7
Regulus	207	35.7	N	11	51.2	Alnair	27	35.1	S	46	50.8
Dubhe	193	42.1	N	61	37.7	Formalhaut	15	16.5	S	29	30.0
Denebola	182	26.0	N	14	26.5	Markab	13	31.7	N	15	19.6

# 2023 - First Point of Aries / Selected Stars

	day 106 of 365		day 107 of 365		day 108 of 365		day 109 of 365		day 110 of 365			
UT	April	16	April	17	April	18	April	19	April	20	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	203	52.9	+02.5	204	52.0	+02.5	205	51.2	+02.4	206	50.3	+02.5
03	218	55.4	+02.4	219	54.5	+02.5	220	53.6	+02.5	221	52.8	+02.4
04	233	57.8	+02.5	234	57.0	+02.4	235	56.1	+02.5	236	55.2	+02.5
05	249	00.3	+02.5	249	59.4	+02.5	250	58.6	+02.4	251	57.7	+02.5
06	264	02.8	+02.4	265	01.9	+02.5	266	01.0	+02.5	267	00.2	+02.4
07	279	05.2	+02.5	280	04.4	+02.4	281	03.5	+02.5	282	02.6	+02.5
08	294	07.7	+02.5	295	06.8	+02.5	296	06.0	+02.4	297	05.1	+02.5
09	309	10.2	+02.4	310	09.3	+02.5	311	08.4	+02.5	312	07.6	+02.4
10	324	12.6	+02.5	325	11.8	+02.4	326	10.9	+02.5	327	10.0	+02.5
11	339	15.1	+02.4	340	14.2	+02.5	341	13.4	+02.4	342	12.5	+02.5
12	354	17.5	+02.5	355	16.7	+02.4	356	15.8	+02.5	357	15.0	+02.4
13	9	20.0	+02.5	10	19.1	+02.5	11	18.3	+02.4	12	17.4	+02.5
14	24	22.5	+02.4	25	21.6	+02.5	26	20.7	+02.5	27	19.9	+02.4
15	39	24.9	+02.5	40	24.1	+02.4	41	23.2	+02.5	42	22.3	+02.5
16	54	27.4	+02.5	55	26.5	+02.5	56	25.7	+02.4	57	24.8	+02.5
17	69	29.9	+02.4	70	29.0	+02.5	71	28.1	+02.5	72	27.3	+02.4
18	84	32.3	+02.5	85	31.5	+02.4	86	30.6	+02.5	87	29.7	+02.5
19	99	34.8	+02.5	100	33.9	+02.5	101	33.1	+02.4	102	32.2	+02.5
20	114	37.3	+02.4	115	36.4	+02.5	116	35.5	+02.5	117	34.7	+02.4
21	129	39.7	+02.5	130	38.9	+02.4	131	38.0	+02.5	132	37.1	+02.5
22	144	42.2	+02.4	145	41.3	+02.5	146	40.5	+02.4	147	39.6	+02.5
23	159	44.6	+02.5	160	43.8	+02.4	161	42.9	+02.5	162	42.1	+02.4
	174	47.1	+02.5	175	46.2	+02.5	176	45.4	+02.4	177	44.5	+02.5
	189	49.6	+02.4	190	48.7	+02.5	191	47.8	+02.5	192	47.0	+02.5
	193	46.1	+02.5				193	46.1	+02.5			

	SHA	Dec	SHA	Dec
	° ,	° ,	° ,	° ,
Alpheratz	357	36.7	N	29 13.0
Ankaa	353	09.1	S	42 10.7
Schedir	349	33.3	N	56 39.7
Diphda	348	49.2	S	17 51.7
Achernar	335	21.9	S	57 07.2
Hamal	327	53.3	N	23 34.3
Polaris	315	13.2	N	89 21.8
Acamar	315	13.2	S	40 12.9
Menkar	314	08.0	N	04 10.7
Mirfak	308	30.8	N	49 56.6
Aldebaran	290	41.6	N	16 33.4
Capella	280	24.4	N	46 01.5
Rigel	281	05.5	S	08 10.6
Bellatrix	278	24.6	N	06 22.2
Elnath	278	03.9	N	28 37.7
Alnilam	275	39.4	S	01 11.3
Betelgeuze	270	53.8	N	07 24.6
Canopus	263	53.2	S	52 42.7
Sirius	258	27.4	S	16 44.6
Adhara	255	07.1	S	29 00.4
Castor	245	58.9	N	31 50.4
Procyon	244	52.1	N	05 10.3
Pollux	243	18.7	N	27 58.3
Avior	234	15.2	S	59 35.3
Suhail	222	47.2	S	43 31.8
Miaplacidus	221	38.1	S	69 49.0
Alphard	217	49.0	S	08 45.7
Regulus	207	35.7	N	11 51.2
Dubhe	193	42.2	N	61 37.7
Denebola	182	26.0	N	14 26.5
Gienah	175	44.7	S	17 40.4
Acrux	173	01.1	S	63 13.8
Gacrux	171	52.8	S	57 14.6
Alioth	166	13.8	N	55 50.1
Spica	158	23.5	S	11 17.0
Alkaid	152	52.6	N	49 11.8
Hadar	148	37.4	S	60 29.1
Menkent	147	58.6	S	36 28.8
Arcturus	145	48.5	N	19 04.3
Rigel Kentaurus	139	39.0	S	60 56.0
Zubenelgenubi	136	57.3	S	16 08.3
Kocab	137	18.6	N	74 03.5
Alphecca	126	04.7	N	26 38.0
Antares	112	17.5	S	26 29.0
Atria	107	12.6	S	69 03.9
Sabik	102	04.3	S	15 45.3
Shaula	96	12.1	S	37 07.2
Rasalhague	95	59.7	N	12 32.5
Etamin	90	42.6	N	51 28.8
Kaus Australis	83	34.3	S	34 22.3
Vega	80	34.2	N	38 47.9
Nunki	75	49.5	S	26 16.0
Altireo	67	05.2	N	28 00.2
Altair	62	01.6	N	08 55.4
Peacock	53	08.1	S	56 39.4
Deneb	49	26.9	N	45 21.4
Enif	33	40.4	N	09 58.7
Alnair	27	35.1	S	46 50.8
Formalhaut	15	16.5	S	29 29.9
Markab	13	31.6	N	15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 111 of 365		day 112 of 365		day 113 of 365		day 114 of 365		day 115 of 365				
UT	April 21	GHA	ddGHA	April 22	GHA	ddGHA	April 23	GHA	ddGHA	April 24	GHA	ddGHA	UT
00	208 48.6 +02.5	209 47.7 +02.5	210 46.9 +02.4	211 46.0 +02.5	212 45.1 +02.5	00							
01	223 51.1 +02.4	224 50.2 +02.5	225 49.3 +02.5	226 48.5 +02.4	227 47.6 +02.5	01							
02	238 53.5 +02.5	239 52.7 +02.4	240 51.8 +02.5	241 50.9 +02.5	242 50.1 +02.4	02							
03	253 56.0 +02.4	254 55.1 +02.5	255 54.3 +02.4	256 53.4 +02.5	257 52.5 +02.5	03							
04	268 58.4 +02.5	269 57.6 +02.4	270 56.7 +02.5	271 55.9 +02.4	272 55.0 +02.5	04							
05	284 00.9 +02.5	285 00.0 +02.5	285 59.2 +02.5	286 58.3 +02.5	287 57.5 +02.4	05							
06	299 03.4 +02.4	300 02.5 +02.5	301 01.7 +02.4	302 00.8 +02.5	302 59.9 +02.5	06							
07	314 05.8 +02.5	315 05.0 +02.4	316 04.1 +02.5	317 03.3 +02.4	318 02.4 +02.5	07							
08	329 08.3 +02.5	330 07.4 +02.5	331 06.6 +02.4	332 05.7 +02.5	333 04.9 +02.4	08							
09	344 10.8 +02.4	345 09.9 +02.5	346 09.0 +02.5	347 08.2 +02.4	348 07.3 +02.5	09							
10	359 13.2 +02.5	0 12.4 +02.4	1 11.5 +02.5	2 10.6 +02.5	3 09.8 +02.5	10							
11	14 15.7 +02.5	15 14.8 +02.5	16 14.0 +02.4	17 13.1 +02.5	18 12.3 +02.4	11							
12	29 18.2 +02.4	30 17.3 +02.5	31 16.4 +02.5	32 15.6 +02.4	33 14.7 +02.5	12							
13	44 20.6 +02.5	45 19.8 +02.4	46 18.9 +02.5	47 18.0 +02.5	48 17.2 +02.4	13							
14	59 23.1 +02.5	60 22.2 +02.5	61 21.4 +02.4	62 20.5 +02.5	63 19.6 +02.5	14							
15	74 25.6 +02.4	75 24.7 +02.5	76 23.8 +02.5	77 23.0 +02.4	78 22.1 +02.5	15							
16	89 28.0 +02.5	90 27.2 +02.4	91 26.3 +02.5	92 25.4 +02.5	93 24.6 +02.4	16							
17	104 30.5 +02.4	105 29.6 +02.5	106 28.8 +02.4	107 27.9 +02.5	108 27.0 +02.5	17							
18	119 32.9 +02.5	120 32.1 +02.4	121 31.2 +02.5	122 30.4 +02.4	123 29.5 +02.5	18							
19	134 35.4 +02.5	135 34.5 +02.5	136 33.7 +02.5	137 32.8 +02.5	138 32.0 +02.4	19							
20	149 37.9 +02.4	150 37.0 +02.5	151 36.2 +02.4	152 35.3 +02.5	153 34.4 +02.5	20							
21	164 40.3 +02.5	165 39.5 +02.4	166 38.6 +02.5	167 37.8 +02.4	168 36.9 +02.5	21							
22	179 42.8 +02.5	180 41.9 +02.5	181 41.1 +02.4	182 40.2 +02.5	183 39.4 +02.4	22							
23	194 45.3 +02.4	195 44.4 +02.5	196 43.5 +02.5	197 42.7 +02.4	198 41.8 +02.5	23							

	SHA	Dec	SHA	Dec	
	° ,	° ,	° ,	° ,	
Alpheratz	357 36.7	N 29 13.0	Gienah	175 44.7	S 17 40.4
Ankaa	353 09.1	S 42 10.7	Acrux	173 01.1	S 63 13.8
Schedir	349 33.3	N 56 39.7	Gacrux	171 52.8	S 57 14.6
Diphda	348 49.1	S 17 51.7	Alioth	166 13.8	N 55 50.1
Achernar	335 21.9	S 57 07.2	Spica	158 23.5	S 11 17.0
Hamal	327 53.3	N 23 34.3	Alkaid	152 52.6	N 49 11.8
Polaris	315 13.9	N 89 21.8	Hadar	148 37.4	S 60 29.1
Acamar	315 13.2	S 40 12.8	Menkent	147 58.6	S 36 28.8
Menkar	314 08.0	N 04 10.8	Arcturus	145 48.5	N 19 04.3
Mirfak	308 30.8	N 49 56.6	Rigel Kentaurus	139 38.9	S 60 56.0
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.4	N 46 01.5	Kocab	137 18.6	N 74 03.5
Rigel	281 05.5	S 08 10.6	Alphecca	126 04.7	N 26 38.1
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.4	S 26 29.0
Elnath	278 04.0	N 28 37.7	Atria	107 12.5	S 69 04.0
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.8	N 07 24.6	Shaula	96 12.1	S 37 07.2
Canopus	263 53.3	S 52 42.7	Rasalhague	95 59.7	N 12 32.5
Sirius	258 27.5	S 16 44.6	Etamin	90 42.6	N 51 28.8
Adhara	255 07.1	S 29 00.4	Kaus Australis	83 34.3	S 34 22.3
Castor	245 58.9	N 31 50.4	Vega	80 34.1	N 38 47.9
Procyon	244 52.2	N 05 10.3	Nunki	75 49.4	S 26 16.0
Pollux	243 18.8	N 27 58.3	Albireo	67 05.2	N 28 00.2
Avior	234 15.3	S 59 35.3	Altair	62 01.5	N 08 55.4
Suhail	222 47.3	S 43 31.8	Peacock	53 08.0	S 56 39.4
Miaplacidus	221 38.2	S 69 49.0	Deneb	49 26.9	N 45 21.4
Alphard	217 49.1	S 08 45.7	Enif	33 40.4	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.0	S 46 50.8
Dubhe	193 42.2	N 61 37.7	Formalhaut	15 16.5	S 29 29.9
Denebola	182 26.0	N 14 26.6	Markab	13 31.6	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 116 of 365 <b>April 26</b>	day 117 of 365 <b>April 27</b>	day 118 of 365 <b>April 28</b>	day 119 of 365 <b>April 29</b>	day 120 of 365 <b>April 30</b>	
<b>UT</b>	GHA      ddGHA °    ,    '	<b>UT</b>				
<b>00</b>	213 44.3 +02.5	214 43.4 +02.5	215 42.6 +02.4	216 41.7 +02.5	217 40.8 +02.5	<b>00</b>
<b>01</b>	228 46.8 +02.4	229 45.9 +02.5	230 45.0 +02.5	231 44.2 +02.4	232 43.3 +02.5	<b>01</b>
<b>02</b>	243 49.2 +02.5	244 48.4 +02.4	245 47.5 +02.5	246 46.6 +02.5	247 45.8 +02.4	<b>02</b>
<b>03</b>	258 51.7 +02.4	259 50.8 +02.5	260 50.0 +02.4	261 49.1 +02.5	262 48.2 +02.5	<b>03</b>
<b>04</b>	273 54.1 +02.5	274 53.3 +02.4	275 52.4 +02.5	276 51.6 +02.4	277 50.7 +02.5	<b>04</b>
<b>05</b>	288 56.6 +02.5	289 55.7 +02.5	290 54.9 +02.5	291 54.0 +02.5	292 53.2 +02.4	<b>05</b>
<b>06</b>	303 59.1 +02.4	304 58.2 +02.5	305 57.4 +02.4	306 56.5 +02.5	307 55.6 +02.5	<b>06</b>
<b>07</b>	319 01.5 +02.5	320 00.7 +02.4	320 59.8 +02.5	321 59.0 +02.4	322 58.1 +02.5	<b>07</b>
<b>08</b>	334 04.0 +02.5	335 03.1 +02.5	336 02.3 +02.4	337 01.4 +02.5	338 00.6 +02.4	<b>08</b>
<b>09</b>	349 06.5 +02.4	350 05.6 +02.5	351 04.7 +02.5	352 03.9 +02.4	353 03.0 +02.5	<b>09</b>
<b>10</b>	4 08.9 +02.5	5 08.1 +02.4	6 07.2 +02.5	7 06.3 +02.5	8 05.5 +02.4	<b>10</b>
<b>11</b>	19 11.4 +02.5	20 10.5 +02.5	21 09.7 +02.4	22 08.8 +02.5	23 07.9 +02.5	<b>11</b>
<b>12</b>	34 13.9 +02.4	35 13.0 +02.5	36 12.1 +02.5	37 11.3 +02.4	38 10.4 +02.5	<b>12</b>
<b>13</b>	49 16.3 +02.5	50 15.5 +02.4	51 14.6 +02.5	52 13.7 +02.5	53 12.9 +02.4	<b>13</b>
<b>14</b>	64 18.8 +02.5	65 17.9 +02.5	66 17.1 +02.4	67 16.2 +02.5	68 15.3 +02.5	<b>14</b>
<b>15</b>	79 21.3 +02.4	80 20.4 +02.5	81 19.5 +02.5	82 18.7 +02.4	83 17.8 +02.5	<b>15</b>
<b>16</b>	94 23.7 +02.5	95 22.9 +02.4	96 22.0 +02.5	97 21.1 +02.5	98 20.3 +02.4	<b>16</b>
<b>17</b>	109 26.2 +02.4	110 25.3 +02.5	111 24.5 +02.4	112 23.6 +02.5	113 22.7 +02.5	<b>17</b>
<b>18</b>	124 28.6 +02.5	125 27.8 +02.4	126 26.9 +02.5	127 26.1 +02.4	128 25.2 +02.5	<b>18</b>
<b>19</b>	139 31.1 +02.5	140 30.2 +02.5	141 29.4 +02.4	142 28.5 +02.5	143 27.7 +02.4	<b>19</b>
<b>20</b>	154 33.6 +02.4	155 32.7 +02.5	156 31.8 +02.5	157 31.0 +02.5	158 30.1 +02.5	<b>20</b>
<b>21</b>	169 36.0 +02.5	170 35.2 +02.4	171 34.3 +02.5	172 33.5 +02.4	173 32.6 +02.5	<b>21</b>
<b>22</b>	184 38.5 +02.5	185 37.6 +02.5	186 36.8 +02.4	187 35.9 +02.5	188 35.1 +02.4	<b>22</b>
<b>23</b>	199 41.0 +02.4	200 40.1 +02.5	201 39.2 +02.5	202 38.4 +02.4	203 37.5 +02.5	<b>23</b>

	SHA °    ,    '	Dec		SHA °    ,    '	Dec
Alpheratz	357 36.6	N 29 13.0	Gienah	175 44.7	S 17 40.4
Ankaa	353 09.0	S 42 10.7	Acrux	173 01.1	S 63 13.8
Schedir	349 33.2	N 56 39.7	Gacrux	171 52.8	S 57 14.7
Diphda	348 49.1	S 17 51.7	Alioth	166 13.8	N 55 50.1
Achernar	335 21.9	S 57 07.1	Spica	158 23.5	S 11 17.0
Hamal	327 53.2	N 23 34.2	Alkaid	152 52.6	N 49 11.8
Polaris	315 13.8	N 89 21.8	Hadar	148 37.4	S 60 29.1
Acamar	315 13.2	S 40 12.8	Menkent	147 58.6	S 36 28.9
Menkar	314 08.0	N 04 10.8	Arcturus	145 48.5	N 19 04.4
Mirfak	308 30.8	N 49 56.6	Rigel Kentaurus	139 38.9	S 60 56.1
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.4	N 46 01.5	Kocab	137 18.5	N 74 03.5
Rigel	281 05.5	S 08 10.6	Alphecca	126 04.7	N 26 38.1
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.4	S 26 29.0
Elnath	278 04.0	N 28 37.7	Atria	107 12.4	S 69 04.0
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.9	N 07 24.6	Shaula	96 12.0	S 37 07.2
Canopus	263 53.3	S 52 42.7	Rasalhague	95 59.7	N 12 32.5
Sirius	258 27.5	S 16 44.6	Etamin	90 42.5	N 51 28.8
Adhara	255 07.1	S 29 00.4	Kaus Australis	83 34.2	S 34 22.3
Castor	245 58.9	N 31 50.4	Vega	80 34.1	N 38 47.9
Procyon	244 52.2	N 05 10.3	Nunki	75 49.4	S 26 16.0
Pollux	243 18.8	N 27 58.3	Albireo	67 05.1	N 28 00.2
Avior	234 15.3	S 59 35.3	Altair	62 01.5	N 08 55.4
Suhail	222 47.3	S 43 31.8	Peacock	53 08.0	S 56 39.4
Miaplacidus	221 38.2	S 69 49.0	Deneb	49 26.8	N 45 21.4
Alphard	217 49.1	S 08 45.7	Enif	33 40.3	N 09 58.7
Regulus	207 35.7	N 11 51.2	Alnair	27 35.0	S 46 50.8
Dubhe	193 42.2	N 61 37.8	Formalhaut	15 16.4	S 29 29.9
Denebola	182 26.0	N 14 26.6	Markab	13 31.6	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	day 121 of 365		day 122 of 365		day 123 of 365		day 124 of 365		day 125 of 365		
UT	May	1	May	2	May	3	May	4	May	5	UT
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	218 40.0	+02.4	219 39.1	+02.5	220 38.3	+02.4	221 37.4	+02.5	222 36.5	+02.5	02
03	233 42.4	+02.5	234 41.6	+02.4	235 40.7	+02.5	236 39.9	+02.4	237 39.0	+02.5	03
04	248 44.9	+02.5	249 44.0	+02.5	250 43.2	+02.4	251 42.3	+02.5	252 41.5	+02.4	04
05	263 47.4	+02.4	264 46.5	+02.5	265 45.6	+02.5	266 44.8	+02.4	267 43.9	+02.5	05
06	278 49.8	+02.5	279 49.0	+02.4	280 48.1	+02.5	281 47.2	+02.5	282 46.4	+02.5	06
07	293 52.3	+02.5	294 51.4	+02.5	295 50.6	+02.4	296 49.7	+02.5	297 48.9	+02.4	07
08	308 54.8	+02.4	309 53.9	+02.5	310 53.0	+02.5	311 52.2	+02.4	312 51.3	+02.5	08
09	323 57.2	+02.5	324 56.4	+02.4	325 55.5	+02.5	326 54.6	+02.5	327 53.8	+02.4	09
10	338 59.7	+02.5	339 58.8	+02.5	340 58.0	+02.4	341 57.1	+02.5	342 56.2	+02.5	10
11	354 02.2	+02.4	355 01.3	+02.5	356 00.4	+02.5	356 59.6	+02.4	357 58.7	+02.5	11
12	9 04.6	+02.5	10 03.8	+02.4	11 02.9	+02.5	12 02.0	+02.5	13 01.2	+02.4	12
13	24 07.1	+02.5	25 06.2	+02.5	26 05.4	+02.4	27 04.5	+02.5	28 03.6	+02.5	13
14	39 09.6	+02.4	40 08.7	+02.5	41 07.8	+02.5	42 07.0	+02.4	43 06.1	+02.5	14
15	54 12.0	+02.5	55 11.2	+02.4	56 10.3	+02.5	57 09.4	+02.5	58 08.6	+02.4	15
16	69 14.5	+02.4	70 13.6	+02.5	71 12.8	+02.4	72 11.9	+02.5	73 11.0	+02.5	16
17	84 16.9	+02.5	85 16.1	+02.4	86 15.2	+02.5	87 14.4	+02.4	88 13.5	+02.5	17
18	99 19.4	+02.5	100 18.5	+02.5	101 17.7	+02.4	102 16.8	+02.5	103 16.0	+02.4	18
19	114 21.9	+02.4	115 21.0	+02.5	116 20.1	+02.5	117 19.3	+02.4	118 18.4	+02.5	19
20	129 24.3	+02.5	130 23.5	+02.4	131 22.6	+02.5	132 21.7	+02.5	133 20.9	+02.4	20
21	144 26.8	+02.5	145 25.9	+02.5	146 25.1	+02.4	147 24.2	+02.5	148 23.3	+02.5	21
22	159 29.3	+02.4	160 28.4	+02.5	161 27.5	+02.5	162 26.7	+02.4	163 25.8	+02.5	22
23	174 31.7	+02.5	175 30.9	+02.4	176 30.0	+02.5	177 29.1	+02.5	178 28.3	+02.4	23
	189 34.2	+02.5	190 33.3	+02.5	191 32.5	+02.4	192 31.6	+02.5	193 30.7	+02.5	
	204 36.7	+02.4	205 35.8	+02.5	206 34.9	+02.5	207 34.1	+02.4	208 33.2	+02.5	

	SHA	Dec	SHA	Dec
	° ,'	° ,'	° ,'	° ,'
Alpheratz	357 36.6	N 29 13.0	Gienah	175 44.7
Ankaa	353 09.0	S 42 10.6	Acrux	173 01.1
Schedir	349 33.2	N 56 39.7	Gacrux	171 52.8
Diphda	348 49.1	S 17 51.6	Alioth	166 13.8
Achernar	335 21.9	S 57 07.1	Spica	158 23.5
Hamal	327 53.2	N 23 34.2	Alkaid	152 52.6
Polaris	315 14.1	N 89 21.7	Hadar	148 37.4
Acamar	315 13.2	S 40 12.8	Menkent	147 58.6
Menkar	314 08.0	N 04 10.8	Arcturus	145 48.5
Mirfak	308 30.8	N 49 56.6	Rigel Kentaurus	139 38.9
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2
Capella	280 24.4	N 46 01.5	Kocab	137 18.5
Rigel	281 05.5	S 08 10.6	Alphecca	126 04.6
Bellatrix	278 24.7	N 06 22.2	Antares	112 17.4
Elnath	278 04.0	N 28 37.7	Atria	107 12.3
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.2
Betelgeuze	270 53.9	N 07 24.6	Shaula	96 12.0
Canopus	263 53.4	S 52 42.7	Rasalhague	95 59.7
Sirius	258 27.5	S 16 44.6	Etamin	90 42.5
Adhara	255 07.1	S 29 00.4	Kaus Australis	83 34.2
Castor	245 58.9	N 31 50.4	Vega	80 34.0
Procyon	244 52.2	N 05 10.3	Nunki	75 49.4
Pollux	243 18.8	N 27 58.3	Albireo	67 05.1
Avior	234 15.4	S 59 35.3	Altair	62 01.4
Suhail	222 47.3	S 43 31.8	Peacock	53 07.9
Miaplacidus	221 38.3	S 69 49.1	Deneb	49 26.8
Alphard	217 49.1	S 08 45.7	Enif	33 40.3
Regulus	207 35.7	N 11 51.2	Alnair	27 34.9
Dubhe	193 42.3	N 61 37.8	Formalhaut	15 16.4
Denebola	182 26.0	N 14 26.6	Markab	13 31.5

# 2023 - First Point of Aries / Selected Stars

	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	UT
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	223 35.7	+02.4	224 34.8	+02.5	225 34.0	+02.4	226 33.1	+02.5	227 32.2	+02.5	02
03	238 38.1	+02.5	239 37.3	+02.4	240 36.4	+02.5	241 35.6	+02.4	242 34.7	+02.5	03
04	253 40.6	+02.5	254 39.7	+02.5	255 38.9	+02.4	256 38.0	+02.5	257 37.2	+02.4	04
05	268 43.1	+02.4	269 42.2	+02.5	270 41.3	+02.5	271 40.5	+02.4	272 39.6	+02.5	05
06	283 45.5	+02.5	284 44.7	+02.4	285 43.8	+02.5	286 42.9	+02.5	287 42.1	+02.5	06
07	298 48.0	+02.5	299 47.1	+02.5	300 46.3	+02.4	301 45.4	+02.5	302 44.6	+02.4	07
08	313 50.5	+02.4	314 49.6	+02.5	315 48.7	+02.5	316 47.9	+02.4	317 47.0	+02.5	08
09	328 52.9	+02.5	329 52.1	+02.4	330 51.2	+02.5	331 50.3	+02.5	332 49.5	+02.4	09
10	343 55.4	+02.4	344 54.5	+02.5	345 53.7	+02.4	346 52.8	+02.5	347 51.9	+02.5	10
11	358 57.8	+02.5	359 57.0	+02.5	0 56.1	+02.5	1 55.3	+02.4	2 54.4	+02.5	11
12	14 00.3	+02.5	14 59.5	+02.4	15 58.6	+02.5	16 57.7	+02.5	17 56.9	+02.4	12
13	29 02.8	+02.4	30 01.9	+02.5	31 01.1	+02.4	32 00.2	+02.5	32 59.3	+02.5	13
14	44 05.2	+02.5	45 04.4	+02.4	46 03.5	+02.5	47 02.7	+02.4	48 01.8	+02.5	14
15	59 07.7	+02.5	60 06.8	+02.5	61 06.0	+02.4	62 05.1	+02.5	63 04.3	+02.4	15
16	74 10.2	+02.4	75 09.3	+02.5	76 08.4	+02.5	77 07.6	+02.5	78 06.7	+02.5	16
17	89 12.6	+02.5	90 11.8	+02.4	91 10.9	+02.5	92 10.1	+02.4	93 09.2	+02.5	17
18	104 15.1	+02.5	105 14.2	+02.5	106 13.4	+02.4	107 12.5	+02.5	108 11.7	+02.4	18
19	119 17.6	+02.4	120 16.7	+02.5	121 15.8	+02.5	122 15.0	+02.4	123 14.1	+02.5	19
20	134 20.0	+02.5	135 19.2	+02.4	136 18.3	+02.5	137 17.4	+02.5	138 16.6	+02.5	20
21	149 22.5	+02.5	150 21.6	+02.5	151 20.8	+02.4	152 19.9	+02.5	153 19.1	+02.4	21
22	164 25.0	+02.4	165 24.1	+02.5	166 23.2	+02.5	167 22.4	+02.4	168 21.5	+02.5	22
23	179 27.4	+02.5	180 26.6	+02.4	181 25.7	+02.5	182 24.8	+02.5	183 24.0	+02.4	23
	194 29.9	+02.4	195 29.0	+02.5	196 28.2	+02.4	197 27.3	+02.5	198 26.4	+02.5	
	209 32.3	+02.5	210 31.5	+02.5	211 30.6	+02.5	212 29.8	+02.4	213 28.9	+02.5	

	SHA	Dec	SHA	Dec
	° ,'	° ,'	° ,'	° ,'
Alpheratz	357 36.6	N 29 13.0	Gienah	175 44.8
Ankaa	353 09.0	S 42 10.6	Acrux	173 01.1
Schedir	349 33.2	N 56 39.6	Gacrux	171 52.8
Diphda	348 49.1	S 17 51.6	Alioth	166 13.8
Achernar	335 21.9	S 57 07.1	Spica	158 23.5
Hamal	327 53.2	N 23 34.2	Alkaid	152 52.6
Polaris	315 13.9	N 89 21.7	Hadar	148 37.4
Acamar	315 13.2	S 40 12.8	Menkent	147 58.6
Menkar	314 08.0	N 04 10.8	Arcturus	145 48.5
Mirfak	308 30.8	N 49 56.6	Rigel Kentaurus	139 38.9
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2
Capella	280 24.4	N 46 01.5	Kocab	137 18.5
Rigel	281 05.5	S 08 10.6	Alphecca	126 04.6
Bellatrix	278 24.7	N 06 22.2	Antares	112 17.4
Elnath	278 04.0	N 28 37.7	Atria	107 12.3
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.1
Betelgeuze	270 53.9	N 07 24.6	Shaula	96 12.0
Canopus	263 53.4	S 52 42.7	Rasalhague	95 59.6
Sirius	258 27.5	S 16 44.5	Etamin	90 42.4
Adhara	255 07.2	S 29 00.4	Kaus Australis	83 34.1
Castor	245 59.0	N 31 50.4	Vega	80 34.0
Procyon	244 52.2	N 05 10.3	Nunki	75 49.3
Pollux	243 18.8	N 27 58.3	Albireo	67 05.1
Avior	234 15.4	S 59 35.3	Altair	62 01.4
Suhail	222 47.3	S 43 31.8	Peacock	53 07.9
Miaplacidus	221 38.4	S 69 49.1	Deneb	49 26.7
Alphard	217 49.1	S 08 45.7	Enif	33 40.3
Regulus	207 35.8	N 11 51.2	Alnair	27 34.9
Dubhe	193 42.3	N 61 37.8	Formalhaut	15 16.4
Denebola	182 26.0	N 14 26.6	Markab	13 31.5

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	228	31.4	+02.4	229	30.5	+02.5	230	29.7	+02.4	231	28.8	+02.5
03	243	33.8	+02.5	244	33.0	+02.4	245	32.1	+02.5	246	31.3	+02.4
04	258	36.3	+02.5	259	35.4	+02.5	260	34.6	+02.4	261	33.7	+02.5
05	273	38.8	+02.4	274	37.9	+02.5	275	37.0	+02.5	276	36.2	+02.4
06	288	41.2	+02.5	289	40.4	+02.4	290	39.5	+02.5	291	38.6	+02.5
07	303	43.7	+02.5	304	42.8	+02.5	305	42.0	+02.4	306	41.1	+02.5
08	318	46.2	+02.4	319	45.3	+02.5	320	44.4	+02.5	321	43.6	+02.4
09	333	48.6	+02.5	334	47.8	+02.4	335	46.9	+02.5	336	46.0	+02.5
10	348	51.1	+02.5	349	50.2	+02.5	350	49.4	+02.4	351	48.5	+02.5
11	3	53.6	+02.4	4	52.7	+02.5	5	51.8	+02.5	6	51.0	+02.4
12	18	56.0	+02.5	19	55.2	+02.4	20	54.3	+02.5	21	53.4	+02.5
13	33	58.5	+02.4	34	57.6	+02.5	35	56.8	+02.4	36	55.9	+02.5
14	49	00.9	+02.5	50	00.1	+02.4	50	59.2	+02.5	51	58.4	+02.4
15	64	03.4	+02.5	65	02.5	+02.5	66	01.7	+02.5	67	00.8	+02.5
16	79	05.9	+02.4	80	05.0	+02.5	81	04.2	+02.4	82	03.3	+02.5
17	94	08.3	+02.5	95	07.5	+02.4	96	06.6	+02.5	97	05.8	+02.4
18	109	10.8	+02.5	110	09.9	+02.5	111	09.1	+02.4	112	08.2	+02.5
19	124	13.3	+02.4	125	12.4	+02.5	126	11.5	+02.5	127	10.7	+02.4
20	139	15.7	+02.5	140	14.9	+02.4	141	14.0	+02.5	142	13.1	+02.5
21	154	18.2	+02.5	155	17.3	+02.5	156	16.5	+02.4	157	15.6	+02.5
22	169	20.7	+02.4	170	19.8	+02.5	171	18.9	+02.5	172	18.1	+02.4
23	184	23.1	+02.5	185	22.3	+02.4	186	21.4	+02.5	187	20.5	+02.5
	199	25.6	+02.4	200	24.7	+02.5	201	23.9	+02.4	202	23.0	+02.5
	214	28.0	+02.5	215	27.2	+02.5	216	26.3	+02.5	217	25.5	+02.4
	218	24.6	+02.5				219	23.6	+02.5	220	22.8	+02.5

	SHA	Dec		SHA	Dec		
	°	,	°	,	°		
Alpheratz	357	36.5	N 29 13.0	Gienah	175	44.8	S 17 40.4
Ankaa	353	08.9	S 42 10.6	Acrux	173	01.1	S 63 13.9
Schedir	349	33.1	N 56 39.6	Gacrux	171	52.8	S 57 14.7
Diphda	348	49.0	S 17 51.6	Alioth	166	13.8	N 55 50.2
Achernar	335	21.8	S 57 07.0	Spica	158	23.5	S 11 17.0
Hamal	327	53.2	N 23 34.2	Alkaid	152	52.6	N 49 11.9
Polaris	315	13.2	N 89 21.7	Hadar	148	37.4	S 60 29.2
Acamar	315	13.2	S 40 12.7	Menkent	147	58.6	S 36 28.9
Menkar	314	07.9	N 04 10.8	Arcturus	145	48.5	N 19 04.4
Mirfak	308	30.8	N 49 56.5	Rigel Kentaurus	139	38.9	S 60 56.1
Aldebaran	290	41.6	N 16 33.4	Zubenelgenubi	136	57.2	S 16 08.3
Capella	280	24.4	N 46 01.5	Kocab	137	18.5	N 74 03.6
Rigel	281	05.5	S 08 10.6	Alphecca	126	04.6	N 26 38.1
Bellatrix	278	24.7	N 06 22.2	Antares	112	17.3	S 26 29.0
Elnath	278	04.0	N 28 37.7	Atria	107	12.2	S 69 04.0
Alnilam	275	39.4	S 01 11.3	Sabik	102	04.1	S 15 45.3
Betelgeuze	270	53.9	N 07 24.6	Shaula	96	11.9	S 37 07.2
Canopus	263	53.4	S 52 42.7	Rasalhague	95	59.6	N 12 32.5
Sirius	258	27.5	S 16 44.5	Etamin	90	42.4	N 51 28.9
Adhara	255	07.2	S 29 00.4	Kaus Australis	83	34.1	S 34 22.3
Castor	245	59.0	N 31 50.4	Vega	80	34.0	N 38 47.9
Procyon	244	52.2	N 05 10.3	Nunki	75	49.3	S 26 16.0
Pollux	243	18.8	N 27 58.3	Albireo	67	05.0	N 28 00.2
Avior	234	15.5	S 59 35.3	Altair	62	01.4	N 08 55.5
Suhail	222	47.4	S 43 31.8	Peacock	53	07.8	S 56 39.4
Miaplacidus	221	38.5	S 69 49.1	Deneb	49	26.7	N 45 21.5
Alphard	217	49.1	S 08 45.7	Enif	33	40.2	N 09 58.7
Regulus	207	35.8	N 11 51.2	Alnair	27	34.8	S 46 50.7
Dubhe	193	42.3	N 61 37.8	Formalhaut	15	16.3	S 29 29.8
Denebola	182	26.0	N 14 26.6	Markab	13	31.5	N 15 19.6

# 2023 - First Point of Aries / Selected Stars

	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	UT
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	233 27.1	+02.4	234 26.2	+02.5	235 25.3	+02.5	236 24.5	+02.4	237 23.6	+02.5	02
03	248 29.5	+02.5	249 28.7	+02.4	250 27.8	+02.5	251 26.9	+02.5	252 26.1	+02.4	03
04	263 32.0	+02.5	264 31.1	+02.5	265 30.3	+02.4	266 29.4	+02.5	267 28.5	+02.5	04
05	278 34.5	+02.4	279 33.6	+02.5	280 32.7	+02.5	281 31.9	+02.4	282 31.0	+02.5	05
06	293 36.9	+02.5	294 36.1	+02.4	295 35.2	+02.5	296 34.3	+02.5	297 33.5	+02.4	06
07	308 39.4	+02.5	309 38.5	+02.5	310 37.7	+02.4	311 36.8	+02.5	312 35.9	+02.5	07
08	323 41.9	+02.4	324 41.0	+02.5	325 40.1	+02.5	326 39.3	+02.4	327 38.4	+02.5	08
09	338 44.3	+02.5	339 43.5	+02.4	340 42.6	+02.5	341 41.7	+02.5	342 40.9	+02.4	09
10	353 46.8	+02.4	354 45.9	+02.5	355 45.1	+02.4	356 44.2	+02.5	357 43.3	+02.5	10
11	8 49.2	+02.5	9 48.4	+02.4	10 47.5	+02.5	11 46.7	+02.4	12 45.8	+02.5	11
12	23 51.7	+02.5	24 50.8	+02.5	25 50.0	+02.4	26 49.1	+02.5	27 48.3	+02.4	12
13	38 54.2	+02.4	39 53.3	+02.5	40 52.4	+02.5	41 51.6	+02.5	42 50.7	+02.5	13
14	53 56.6	+02.5	54 55.8	+02.4	55 54.9	+02.5	56 54.1	+02.4	57 53.2	+02.5	14
15	68 59.1	+02.5	69 58.2	+02.5	70 57.4	+02.4	71 56.5	+02.5	72 55.7	+02.4	15
16	84 01.6	+02.4	85 00.7	+02.5	85 59.8	+02.5	86 59.0	+02.4	87 58.1	+02.5	16
17	99 04.0	+02.5	100 03.2	+02.4	101 02.3	+02.5	102 01.4	+02.5	103 00.6	+02.4	17
18	114 06.5	+02.5	115 05.6	+02.5	116 04.8	+02.4	117 03.9	+02.5	118 03.0	+02.5	18
19	129 09.0	+02.4	130 08.1	+02.5	131 07.2	+02.5	132 06.4	+02.4	133 05.5	+02.5	19
20	144 11.4	+02.5	145 10.6	+02.4	146 09.7	+02.5	147 08.8	+02.5	148 08.0	+02.4	20
21	159 13.9	+02.4	160 13.0	+02.5	161 12.2	+02.4	162 11.3	+02.5	163 10.4	+02.5	21
22	174 16.3	+02.5	175 15.5	+02.4	176 14.6	+02.5	177 13.8	+02.4	178 12.9	+02.5	22
23	189 18.8	+02.5	190 17.9	+02.5	191 17.1	+02.5	192 16.2	+02.5	193 15.4	+02.4	23
	204 21.3	+02.4	205 20.4	+02.5	206 19.6	+02.4	207 18.7	+02.5	208 17.8	+02.5	
	219 23.7	+02.5	220 22.9	+02.4	221 22.0	+02.5	222 21.2	+02.4	223 20.3	+02.5	

	SHA	Dec	SHA	Dec
	° ,'	° ,'	° ,'	° ,'
Alpheratz	357 36.5	N 29 13.0	Gienah	175 44.8
Ankaa	353 08.9	S 42 10.6	Acrux	173 01.2
Schedir	349 33.1	N 56 39.6	Gacrux	171 52.8
Diphda	348 49.0	S 17 51.6	Alioth	166 13.9
Achernar	335 21.8	S 57 07.0	Spica	158 23.5
Hamal	327 53.2	N 23 34.3	Alkaid	152 52.6
Polaris	315 12.9	N 89 21.7	Hadar	148 37.4
Acamar	315 13.2	S 40 12.7	Menkent	147 58.6
Menkar	314 07.9	N 04 10.8	Arcturus	145 48.5
Mirfak	308 30.8	N 49 56.5	Rigel Kentaurus	139 38.9
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2
Capella	280 24.4	N 46 01.5	Kocab	137 18.6
Rigel	281 05.5	S 08 10.6	Alphecca	126 04.6
Bellatrix	278 24.7	N 06 22.2	Antares	112 17.3
Elnath	278 04.0	N 28 37.7	Atria	107 12.2
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.1
Betelgeuze	270 53.9	N 07 24.6	Shaula	96 11.9
Canopus	263 53.5	S 52 42.6	Rasalhague	95 59.6
Sirius	258 27.5	S 16 44.5	Etamin	90 42.4
Adhara	255 07.2	S 29 00.4	Kaus Australis	83 34.0
Castor	245 59.0	N 31 50.4	Vega	80 33.9
Procyon	244 52.2	N 05 10.3	Nunki	75 49.2
Pollux	243 18.9	N 27 58.3	Albireo	67 05.0
Avior	234 15.5	S 59 35.3	Altair	62 01.3
Suhail	222 47.4	S 43 31.8	Peacock	53 07.7
Miaplacidus	221 38.5	S 69 49.1	Deneb	49 26.6
Alphard	217 49.2	S 08 45.7	Enif	33 40.2
Regulus	207 35.8	N 11 51.2	Alnair	27 34.8
Dubhe	193 42.4	N 61 37.8	Formalhaut	15 16.3
Denebola	182 26.0	N 14 26.6	Markab	13 31.4

# 2023 - First Point of Aries / Selected Stars

	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	UT
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	238 22.8	+02.4	239 21.9	+02.5	240 21.0	+02.5	241 20.2	+02.4	242 19.3	+02.5	02
03	253 25.2	+02.5	254 24.4	+02.4	255 23.5	+02.5	256 22.6	+02.5	257 21.8	+02.5	03
04	268 27.7	+02.5	269 26.8	+02.5	270 26.0	+02.4	271 25.1	+02.5	272 24.3	+02.4	04
05	283 30.2	+02.4	284 29.3	+02.5	285 28.4	+02.5	286 27.6	+02.4	287 26.7	+02.5	05
06	298 32.6	+02.5	299 31.8	+02.4	300 30.9	+02.5	301 30.0	+02.5	302 29.2	+02.4	06
07	313 35.1	+02.4	314 34.2	+02.5	315 33.4	+02.4	316 32.5	+02.5	317 31.6	+02.5	07
08	328 37.5	+02.5	329 36.7	+02.5	330 35.8	+02.5	331 35.0	+02.4	332 34.1	+02.5	08
09	343 40.0	+02.5	344 39.2	+02.4	345 38.3	+02.5	346 37.4	+02.5	347 36.6	+02.4	09
10	358 42.5	+02.4	359 41.6	+02.5	0 40.8	+02.4	1 39.9	+02.5	2 39.0	+02.5	10
11	13 44.9	+02.5	14 44.1	+02.4	15 43.2	+02.5	16 42.4	+02.4	17 41.5	+02.5	11
12	28 47.4	+02.5	29 46.5	+02.5	30 45.7	+02.4	31 44.8	+02.5	32 44.0	+02.4	12
13	43 49.9	+02.4	44 49.0	+02.5	45 48.1	+02.5	46 47.3	+02.5	47 46.4	+02.5	13
14	58 52.3	+02.5	59 51.5	+02.4	60 50.6	+02.5	61 49.8	+02.4	62 48.9	+02.5	14
15	73 54.8	+02.5	74 53.9	+02.5	75 53.1	+02.4	76 52.2	+02.5	77 51.4	+02.4	15
16	88 57.3	+02.4	89 56.4	+02.5	90 55.5	+02.5	91 54.7	+02.4	92 53.8	+02.5	16
17	103 59.7	+02.5	104 58.9	+02.4	105 58.0	+02.5	106 57.1	+02.5	107 56.3	+02.5	17
18	119 02.2	+02.5	120 01.3	+02.5	121 00.5	+02.4	121 59.6	+02.5	122 58.8	+02.4	18
19	134 04.7	+02.4	135 03.8	+02.5	136 02.9	+02.5	137 02.1	+02.4	138 01.2	+02.5	19
20	149 07.1	+02.5	150 06.3	+02.4	151 05.4	+02.5	152 04.5	+02.5	153 03.7	+02.4	20
21	164 09.6	+02.4	165 08.7	+02.5	166 07.9	+02.4	167 07.0	+02.5	168 06.1	+02.5	21
22	179 12.0	+02.5	180 11.2	+02.5	181 10.3	+02.5	182 09.5	+02.4	183 08.6	+02.5	22
23	194 14.5	+02.5	195 13.7	+02.4	196 12.8	+02.5	197 11.9	+02.5	198 11.1	+02.4	23
	209 17.0	+02.4	210 16.1	+02.5	211 15.3	+02.4	212 14.4	+02.5	213 13.5	+02.5	
	224 19.4	+02.5	225 18.6	+02.4	226 17.7	+02.5	227 16.9	+02.4	228 16.0	+02.5	

	SHA	Dec	SHA	Dec	
	° ,'	° ,'	° ,'	° ,'	
Alpheratz	357 36.5	N 29 13.0	Gienah	175 44.8	S 17 40.4
Ankaa	353 08.9	S 42 10.5	Acrux	173 01.2	S 63 13.9
Schedir	349 33.0	N 56 39.6	Gacrux	171 52.9	S 57 14.7
Diphda	348 49.0	S 17 51.6	Alioth	166 13.9	N 55 50.2
Achernar	335 21.8	S 57 07.0	Spica	158 23.5	S 11 17.0
Hamal	327 53.1	N 23 34.3	Alkaid	152 52.6	N 49 11.9
Polaris	315 11.8	N 89 21.6	Hadar	148 37.4	S 60 29.2
Acamar	315 13.2	S 40 12.7	Menkent	147 58.6	S 36 28.9
Menkar	314 07.9	N 04 10.8	Arcturus	145 48.5	N 19 04.4
Mirfak	308 30.8	N 49 56.5	Rigel Kentaurus	139 38.9	S 60 56.2
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.4	N 46 01.5	Kocab	137 18.6	N 74 03.6
Rigel	281 05.5	S 08 10.6	Alphecca	126 04.6	N 26 38.2
Bellatrix	278 24.7	N 06 22.2	Antares	112 17.3	S 26 29.0
Elnath	278 04.0	N 28 37.7	Atria	107 12.1	S 69 04.1
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.9	N 07 24.6	Shaula	96 11.9	S 37 07.2
Canopus	263 53.5	S 52 42.6	Rasalhague	95 59.5	N 12 32.6
Sirius	258 27.5	S 16 44.5	Etamin	90 42.3	N 51 28.9
Adhara	255 07.2	S 29 00.3	Kaus Australis	83 34.0	S 34 22.3
Castor	245 59.0	N 31 50.4	Vega	80 33.9	N 38 48.0
Procyon	244 52.3	N 05 10.3	Nunki	75 49.2	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.9	N 28 00.3
Avior	234 15.6	S 59 35.3	Altair	62 01.3	N 08 55.5
Suhail	222 47.4	S 43 31.8	Peacock	53 07.6	S 56 39.4
Miaplacidus	221 38.6	S 69 49.1	Deneb	49 26.6	N 45 21.5
Alphard	217 49.2	S 08 45.7	Enif	33 40.1	N 09 58.7
Regulus	207 35.8	N 11 51.2	Alnair	27 34.7	S 46 50.7
Dubhe	193 42.4	N 61 37.8	Formalhaut	15 16.3	S 29 29.8
Denebola	182 26.0	N 14 26.6	Markab	13 31.4	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	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	UT
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	243 18.5	+02.4	244 17.6	+02.5	245 16.7	+02.5	246 15.9	+02.4	247 15.0	+02.5	02
03	258 20.9	+02.5	259 20.1	+02.4	260 19.2	+02.5	261 18.3	+02.5	262 17.5	+02.4	03
04	273 23.4	+02.5	274 22.5	+02.5	275 21.7	+02.4	276 20.8	+02.5	277 19.9	+02.5	04
05	288 25.9	+02.4	289 25.0	+02.5	290 24.1	+02.5	291 23.3	+02.4	292 22.4	+02.5	05
06	303 28.3	+02.5	304 27.5	+02.4	305 26.6	+02.5	306 25.7	+02.5	307 24.9	+02.4	06
07	318 30.8	+02.4	319 29.9	+02.5	320 29.1	+02.4	321 28.2	+02.5	322 27.3	+02.5	07
08	333 33.2	+02.5	334 32.4	+02.5	335 31.5	+02.5	336 30.7	+02.4	337 29.8	+02.5	08
09	348 35.7	+02.5	349 34.9	+02.4	350 34.0	+02.5	351 33.1	+02.5	352 32.3	+02.4	09
10	3 38.2	+02.4	4 37.3	+02.5	5 36.5	+02.4	6 35.6	+02.5	7 34.7	+02.5	10
11	18 40.6	+02.5	19 39.8	+02.4	20 38.9	+02.5	21 38.1	+02.4	22 37.2	+02.5	11
12	33 43.1	+02.5	34 42.2	+02.5	35 41.4	+02.4	36 40.5	+02.5	37 39.7	+02.4	12
13	48 45.6	+02.4	49 44.7	+02.5	50 43.8	+02.5	51 43.0	+02.4	52 42.1	+02.5	13
14	63 48.0	+02.5	64 47.2	+02.4	65 46.3	+02.5	66 45.4	+02.5	67 44.6	+02.4	14
15	78 50.5	+02.5	79 49.6	+02.5	80 48.8	+02.4	81 47.9	+02.5	82 47.0	+02.5	15
16	93 53.0	+02.4	94 52.1	+02.5	95 51.2	+02.5	96 50.4	+02.4	97 49.5	+02.5	16
17	108 55.4	+02.5	109 54.6	+02.4	110 53.7	+02.5	111 52.8	+02.5	112 52.0	+02.4	17
18	123 57.9	+02.5	124 57.0	+02.5	125 56.2	+02.4	126 55.3	+02.5	127 54.4	+02.5	18
19	139 00.4	+02.4	139 59.5	+02.5	140 58.6	+02.5	141 57.8	+02.4	142 56.9	+02.5	19
20	154 02.8	+02.5	155 02.0	+02.4	156 01.1	+02.5	157 00.2	+02.5	157 59.4	+02.4	20
21	169 05.3	+02.4	170 04.4	+02.5	171 03.6	+02.4	172 02.7	+02.5	173 01.8	+02.5	21
22	184 07.7	+02.5	185 06.9	+02.4	186 06.0	+02.5	187 05.2	+02.4	188 04.3	+02.5	22
23	199 10.2	+02.5	200 09.3	+02.5	201 08.5	+02.5	202 07.6	+02.5	203 06.8	+02.4	23
	214 12.7	+02.4	215 11.8	+02.5	216 11.0	+02.4	217 10.1	+02.5	218 09.2	+02.5	
	229 15.1	+02.5	230 14.3	+02.4	231 13.4	+02.5	232 12.6	+02.4	233 11.7	+02.5	

	SHA	Dec		SHA	Dec
	° ,'	° ,'		° ,'	° ,'
Alpheratz	357 36.4	N 29 13.0	Gienah	175 44.8	S 17 40.4
Ankaa	353 08.8	S 42 10.5	Acrux	173 01.2	S 63 13.9
Schedir	349 33.0	N 56 39.6	Gacrux	171 52.9	S 57 14.8
Diphda	348 48.9	S 17 51.5	Alioth	166 13.9	N 55 50.2
Achernar	335 21.7	S 57 07.0	Spica	158 23.5	S 11 17.0
Hamal	327 53.1	N 23 34.3	Alkaid	152 52.6	N 49 12.0
Polaris	315 10.7	N 89 21.6	Hadar	148 37.4	S 60 29.3
Acamar	315 13.2	S 40 12.7	Menkent	147 58.6	S 36 28.9
Menkar	314 07.9	N 04 10.8	Arcturus	145 48.5	N 19 04.4
Mirfak	308 30.7	N 49 56.5	Rigel Kentaurus	139 38.8	S 60 56.2
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.4
Capella	280 24.4	N 46 01.4	Kocab	137 18.6	N 74 03.7
Rigel	281 05.5	S 08 10.5	Alphecca	126 04.6	N 26 38.2
Bellatrix	278 24.7	N 06 22.2	Antares	112 17.3	S 26 29.0
Elnath	278 04.0	N 28 37.7	Atria	107 12.1	S 69 04.1
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.9	N 07 24.6	Shaula	96 11.8	S 37 07.2
Canopus	263 53.5	S 52 42.6	Rasalhague	95 59.5	N 12 32.6
Sirius	258 27.5	S 16 44.5	Etamin	90 42.3	N 51 29.0
Adhara	255 07.2	S 29 00.3	Kaus Australis	83 34.0	S 34 22.3
Castor	245 59.0	N 31 50.4	Vega	80 33.9	N 38 48.0
Procyon	244 52.3	N 05 10.3	Nunki	75 49.2	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.9	N 28 00.3
Avior	234 15.6	S 59 35.3	Altair	62 01.3	N 08 55.5
Suhail	222 47.4	S 43 31.8	Peacock	53 07.6	S 56 39.4
Miaplacidus	221 38.7	S 69 49.1	Deneb	49 26.5	N 45 21.5
Alphard	217 49.2	S 08 45.7	Enif	33 40.1	N 09 58.8
Regulus	207 35.8	N 11 51.2	Alnair	27 34.7	S 46 50.7
Dubhe	193 42.4	N 61 37.8	Formalhaut	15 16.2	S 29 29.8
Denebola	182 26.0	N 14 26.6	Markab	13 31.3	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 151 of 365		day 152 of 365		day 153 of 365		day 154 of 365		day 155 of 365			
	<b>May 31</b>		<b>June 1</b>		<b>June 2</b>		<b>June 3</b>		<b>June 4</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	248	14.2	+02.4	249	13.3	+02.5	250	12.4	+02.5	251	11.6	+02.4
01	263	16.6	+02.5	264	15.8	+02.4	265	14.9	+02.5	266	14.0	+02.5
02	278	19.1	+02.4	279	18.2	+02.5	280	17.4	+02.4	281	16.5	+02.5
03	293	21.5	+02.5	294	20.7	+02.4	295	19.8	+02.5	296	19.0	+02.4
04	308	24.0	+02.5	309	23.1	+02.5	310	22.3	+02.5	311	21.4	+02.5
05	323	26.5	+02.4	324	25.6	+02.5	325	24.8	+02.4	326	23.9	+02.5
06	338	28.9	+02.5	339	28.1	+02.4	340	27.2	+02.5	341	26.4	+02.4
07	353	31.4	+02.5	354	30.5	+02.5	355	29.7	+02.4	356	28.8	+02.5
08	8	33.9	+02.4	9	33.0	+02.5	10	32.1	+02.5	11	31.3	+02.4
09	23	36.3	+02.5	24	35.5	+02.4	25	34.6	+02.5	26	33.7	+02.5
10	38	38.8	+02.5	39	37.9	+02.5	40	37.1	+02.4	41	36.2	+02.5
11	53	41.3	+02.4	54	40.4	+02.5	55	39.5	+02.5	56	38.7	+02.4
12	68	43.7	+02.5	69	42.9	+02.4	70	42.0	+02.5	71	41.1	+02.5
13	83	46.2	+02.5	84	45.3	+02.5	85	44.5	+02.4	86	43.6	+02.5
14	98	48.7	+02.4	99	47.8	+02.5	100	46.9	+02.5	101	46.1	+02.4
15	113	51.1	+02.5	114	50.3	+02.4	115	49.4	+02.5	116	48.5	+02.5
16	128	53.6	+02.4	129	52.7	+02.5	130	51.9	+02.4	131	51.0	+02.5
17	143	56.0	+02.5	144	55.2	+02.4	145	54.3	+02.5	146	53.5	+02.4
18	158	58.5	+02.5	159	57.6	+02.5	160	56.8	+02.5	161	55.9	+02.5
19	174	01.0	+02.4	175	00.1	+02.5	175	59.3	+02.4	176	58.4	+02.5
20	189	03.4	+02.5	190	02.6	+02.4	191	01.7	+02.5	192	00.9	+02.4
21	204	05.9	+02.5	205	05.0	+02.5	206	04.2	+02.4	207	03.3	+02.5
22	219	08.4	+02.4	220	07.5	+02.5	221	06.6	+02.5	222	05.8	+02.4
23	234	10.8	+02.5	235	10.0	+02.4	236	09.1	+02.5	237	08.2	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 36.4	N 29 13.0	Gienah	175 44.8	S 17 40.4
Ankaa	353 08.8	S 42 10.5	Acrux	173 01.3	S 63 13.9
Schedir	349 32.9	N 56 39.6	Gacrux	171 52.9	S 57 14.8
Diphda	348 48.9	S 17 51.5	Alioth	166 13.9	N 55 50.2
Achernar	335 21.7	S 57 06.9	Spica	158 23.5	S 11 17.0
Hamal	327 53.1	N 23 34.3	Alkaid	152 52.7	N 49 12.0
Polaris	315 09.7	N 89 21.6	Hadar	148 37.4	S 60 29.3
Acamar	315 13.2	S 40 12.6	Menkent	147 58.6	S 36 28.9
Menkar	314 07.9	N 04 10.8	Arcturus	145 48.5	N 19 04.5
Mirfak	308 30.7	N 49 56.5	Rigel Kentaurus	139 38.9	S 60 56.2
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.4
Capella	280 24.4	N 46 01.4	Kocab	137 18.6	N 74 03.7
Rigel	281 05.5	S 08 10.5	Alphecca	126 04.6	N 26 38.2
Bellatrix	278 24.7	N 06 22.2	Antares	112 17.2	S 26 29.0
Elnath	278 04.0	N 28 37.7	Atria	107 12.0	S 69 04.1
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.9	N 07 24.7	Shaula	96 11.8	S 37 07.2
Canopus	263 53.5	S 52 42.6	Rasalhague	95 59.5	N 12 32.6
Sirius	258 27.6	S 16 44.5	Etamin	90 42.3	N 51 29.0
Adhara	255 07.2	S 29 00.3	Kaus Australis	83 33.9	S 34 22.3
Castor	245 59.0	N 31 50.4	Vega	80 33.9	N 38 48.0
Procyon	244 52.3	N 05 10.3	Nunki	75 49.1	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.9	N 28 00.3
Avior	234 15.7	S 59 35.3	Altair	62 01.2	N 08 55.5
Suhail	222 47.5	S 43 31.8	Peacock	53 07.5	S 56 39.4
Miaplacidus	221 38.8	S 69 49.0	Deneb	49 26.5	N 45 21.5
Alphard	217 49.2	S 08 45.6	Enif	33 40.1	N 09 58.8
Regulus	207 35.8	N 11 51.2	Alnair	27 34.6	S 46 50.6
Dubhe	193 42.5	N 61 37.8	Formalhaut	15 16.2	S 29 29.8
Denebola	182 26.1	N 14 26.6	Markab	13 31.3	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 156 of 365		day 157 of 365		day 158 of 365		day 159 of 365		day 160 of 365		
UT	June	5	June	6	June	7	June	8	June	9	UT
00	GHA	ddGHA	00								
01	° ,	,	° ,	,	° ,	,	° ,	,	° ,	,	01
02	253 09.9	+02.4	254 09.0	+02.5	255 08.1	+02.5	256 07.3	+02.4	257 06.4	+02.5	02
03	268 12.3	+02.5	269 11.5	+02.4	270 10.6	+02.5	271 09.7	+02.5	272 08.9	+02.4	03
04	283 14.8	+02.4	284 13.9	+02.5	285 13.1	+02.4	286 12.2	+02.5	287 11.3	+02.5	04
05	298 17.2	+02.5	299 16.4	+02.5	300 15.5	+02.5	301 14.7	+02.4	302 13.8	+02.5	05
06	313 19.7	+02.5	314 18.9	+02.4	315 18.0	+02.5	316 17.1	+02.5	317 16.3	+02.4	06
07	328 22.2	+02.4	329 21.3	+02.5	330 20.5	+02.4	331 19.6	+02.5	332 18.7	+02.5	07
08	343 24.6	+02.5	344 23.8	+02.4	345 22.9	+02.5	346 22.1	+02.4	347 21.2	+02.5	08
09	358 27.1	+02.5	359 26.2	+02.5	0 25.4	+02.5	1 24.5	+02.5	2 23.7	+02.4	09
10	13 29.6	+02.4	14 28.7	+02.5	15 27.9	+02.4	16 27.0	+02.5	17 26.1	+02.5	10
11	28 32.0	+02.5	29 31.2	+02.4	30 30.3	+02.5	31 29.5	+02.4	32 28.6	+02.5	11
12	43 34.5	+02.5	44 33.6	+02.5	45 32.8	+02.4	46 31.9	+02.5	47 31.1	+02.4	12
13	58 37.0	+02.4	59 36.1	+02.5	60 35.2	+02.5	61 34.4	+02.4	62 33.5	+02.5	13
14	73 39.4	+02.5	74 38.6	+02.4	75 37.7	+02.5	76 36.8	+02.5	77 36.0	+02.5	14
15	88 41.9	+02.5	89 41.0	+02.5	90 40.2	+02.4	91 39.3	+02.5	92 38.5	+02.4	15
16	103 44.4	+02.4	104 43.5	+02.5	105 42.6	+02.5	106 41.8	+02.4	107 40.9	+02.5	16
17	118 46.8	+02.5	119 46.0	+02.4	120 45.1	+02.5	121 44.2	+02.5	122 43.4	+02.4	17
18	133 49.3	+02.4	134 48.4	+02.5	135 47.6	+02.4	136 46.7	+02.5	137 45.8	+02.5	18
19	148 51.7	+02.5	149 50.9	+02.5	150 50.0	+02.5	151 49.2	+02.4	152 48.3	+02.5	19
20	163 54.2	+02.5	164 53.4	+02.4	165 52.5	+02.5	166 51.6	+02.5	167 50.8	+02.4	20
21	178 56.7	+02.4	179 55.8	+02.5	180 55.0	+02.4	181 54.1	+02.5	182 53.2	+02.5	21
22	193 59.1	+02.5	194 58.3	+02.4	195 57.4	+02.5	196 56.6	+02.4	197 55.7	+02.5	22
23	209 01.6	+02.5	210 00.7	+02.5	210 59.9	+02.4	211 59.0	+02.5	212 58.2	+02.4	23
	224 04.1	+02.4	225 03.2	+02.5	226 02.3	+02.5	227 01.5	+02.5	228 00.6	+02.5	
	239 06.5	+02.5	240 05.7	+02.4	241 04.8	+02.5	242 04.0	+02.4	243 03.1	+02.5	

	SHA	Dec	SHA	Dec
	° ,	° ,	° ,	° ,
Alpheratz	357 36.3	N 29 13.0	Gienah	175 44.8
Ankaa	353 08.7	S 42 10.5	Acrux	173 01.3
Schedir	349 32.9	N 56 39.6	Gacrux	171 52.9
Diphda	348 48.9	S 17 51.5	Alioth	166 14.0
Achernar	335 21.6	S 57 06.9	Spica	158 23.5
Hamal	327 53.1	N 23 34.3	Alkaid	152 52.7
Polaris	315 08.0	N 89 21.6	Hadar	148 37.4
Acamar	315 13.1	S 40 12.6	Menkent	147 58.6
Menkar	314 07.8	N 04 10.8	Arcturus	145 48.5
Mirfak	308 30.7	N 49 56.5	Rigel Kentaurus	139 38.9
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.2
Capella	280 24.4	N 46 01.4	Kocab	137 18.7
Rigel	281 05.5	S 08 10.5	Alphecca	126 04.6
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.2
Elnath	278 04.0	N 28 37.7	Atria	107 12.0
Alnilam	275 39.4	S 01 11.3	Sabik	102 04.0
Betelgeuze	270 53.9	N 07 24.7	Shaula	96 11.8
Canopus	263 53.5	S 52 42.6	Rasalhague	95 59.5
Sirius	258 27.6	S 16 44.5	Etamin	90 42.3
Adhara	255 07.2	S 29 00.3	Kaus Australis	83 33.9
Castor	245 59.0	N 31 50.4	Vega	80 33.8
Procyon	244 52.3	N 05 10.3	Nunki	75 49.1
Pollux	243 18.9	N 27 58.3	Albireo	67 04.8
Avior	234 15.7	S 59 35.3	Altair	62 01.2
Suhail	222 47.5	S 43 31.8	Peacock	53 07.5
Miaplacidus	221 38.8	S 69 49.0	Deneb	49 26.4
Alphard	217 49.2	S 08 45.6	Enif	33 40.0
Regulus	207 35.8	N 11 51.3	Alnair	27 34.5
Dubhe	193 42.5	N 61 37.8	Formalhaut	15 16.1
Denebola	182 26.1	N 14 26.6	Markab	13 31.3

# 2023 - First Point of Aries / Selected Stars

	day 161 of 365		day 162 of 365		day 163 of 365		day 164 of 365		day 165 of 365		
UT	June	10	June	11	June	12	June	13	June	14	UT
00	GHA	ddGHA	00								
01	° ,	,	° ,	,	° ,	,	° ,	,	° ,	,	01
02	258 05.6	+02.4	259 04.7	+02.5	260 03.8	+02.5	261 03.0	+02.4	262 02.1	+02.5	02
03	273 08.0	+02.5	274 07.2	+02.4	275 06.3	+02.5	276 05.4	+02.5	277 04.6	+02.4	03
04	288 10.5	+02.4	289 09.6	+02.5	290 08.8	+02.4	291 07.9	+02.5	292 07.0	+02.5	04
05	303 12.9	+02.5	304 12.1	+02.5	305 11.2	+02.5	306 10.4	+02.4	307 09.5	+02.5	05
06	318 15.4	+02.5	319 14.6	+02.4	320 13.7	+02.5	321 12.8	+02.5	322 12.0	+02.4	06
07	333 17.9	+02.4	334 17.0	+02.5	335 16.2	+02.4	336 15.3	+02.5	337 14.4	+02.5	07
08	348 20.3	+02.5	349 19.5	+02.4	350 18.6	+02.5	351 17.8	+02.4	352 16.9	+02.5	08
09	363 22.8	+02.5	4 21.9	+02.5	5 21.1	+02.4	6 20.2	+02.5	7 19.4	+02.4	09
10	18 25.3	+02.4	19 24.4	+02.5	20 23.5	+02.5	21 22.7	+02.4	22 21.8	+02.5	10
11	33 27.7	+02.5	34 26.9	+02.4	35 26.0	+02.5	36 25.1	+02.5	37 24.3	+02.5	11
12	48 30.2	+02.5	49 29.3	+02.5	50 28.5	+02.4	51 27.6	+02.5	52 26.8	+02.4	12
13	63 32.7	+02.4	64 31.8	+02.5	65 30.9	+02.5	66 30.1	+02.4	67 29.2	+02.5	13
14	78 35.1	+02.5	79 34.3	+02.4	80 33.4	+02.5	81 32.5	+02.5	82 31.7	+02.4	14
15	93 37.6	+02.5	94 36.7	+02.5	95 35.9	+02.4	96 35.0	+02.5	97 34.1	+02.5	15
16	108 40.1	+02.4	109 39.2	+02.5	110 38.3	+02.5	111 37.5	+02.4	112 36.6	+02.5	16
17	123 42.5	+02.5	124 41.7	+02.4	125 40.8	+02.5	126 39.9	+02.5	127 39.1	+02.4	17
18	138 45.0	+02.4	139 44.1	+02.5	140 43.3	+02.4	141 42.4	+02.5	142 41.5	+02.5	18
19	153 47.4	+02.5	154 46.6	+02.4	155 45.7	+02.5	156 44.9	+02.4	157 44.0	+02.5	19
20	168 49.9	+02.5	169 49.0	+02.5	170 48.2	+02.5	171 47.3	+02.5	172 46.5	+02.4	20
21	183 52.4	+02.4	184 51.5	+02.5	185 50.7	+02.4	186 49.8	+02.5	187 48.9	+02.5	21
22	198 54.8	+02.5	199 54.0	+02.4	200 53.1	+02.5	201 52.3	+02.4	202 51.4	+02.5	22
23	213 57.3	+02.5	214 56.4	+02.5	215 55.6	+02.4	216 54.7	+02.5	217 53.9	+02.4	23
	228 59.8	+02.4	229 58.9	+02.5	230 58.0	+02.5	231 57.2	+02.4	232 56.3	+02.5	
	244 02.2	+02.5	245 01.4	+02.4	246 00.5	+02.5	246 59.6	+02.5	247 58.8	+02.4	

	SHA	Dec	SHA	Dec
	° ,	° ,	° ,	° ,
Alpheratz	357 36.3	N 29 13.0	Gienah	175 44.8
Ankaa	353 08.7	S 42 10.4	Acrux	173 01.3
Schedir	349 32.8	N 56 39.6	Gacrux	171 53.0
Diphda	348 48.8	S 17 51.5	Alioth	166 14.0
Achernar	335 21.6	S 57 06.9	Spica	158 23.5
Hamal	327 53.0	N 23 34.3	Alkaid	152 52.7
Polaris	315 06.5	N 89 21.6	Hadar	148 37.4
Acamar	315 13.1	S 40 12.6	Menkent	147 58.6
Menkar	314 07.8	N 04 10.9	Arcturus	145 48.5
Mirfak	308 30.6	N 49 56.5	Rigel Kentaurus	139 38.9
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.2
Capella	280 24.4	N 46 01.4	Kocab	137 18.7
Rigel	281 05.5	S 08 10.5	Alphecca	126 04.6
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.2
Elnath	278 03.9	N 28 37.7	Atria	107 12.0
Alnilam	275 39.4	S 01 11.2	Sabik	102 04.0
Betelgeuze	270 53.9	N 07 24.7	Shaula	96 11.7
Canopus	263 53.5	S 52 42.5	Rasalhague	95 59.5
Sirius	258 27.5	S 16 44.4	Etamin	90 42.3
Adhara	255 07.2	S 29 00.3	Kaus Australis	83 33.9
Castor	245 59.0	N 31 50.3	Vega	80 33.8
Procyon	244 52.3	N 05 10.3	Nunki	75 49.1
Pollux	243 18.9	N 27 58.3	Albireo	67 04.8
Avior	234 15.7	S 59 35.2	Altair	62 01.2
Suhail	222 47.5	S 43 31.8	Peacock	53 07.4
Miaplacidus	221 38.9	S 69 49.0	Deneb	49 26.4
Alphard	217 49.2	S 08 45.6	Enif	33 40.0
Regulus	207 35.8	N 11 51.3	Alnair	27 34.5
Dubhe	193 42.6	N 61 37.8	Formalhaut	15 16.1
Denebola	182 26.1	N 14 26.6	Markab	13 31.2

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	263	01.2	+02.5	264	00.4	+02.5	264	59.5	+02.5	265	58.7	+02.4
03	278	03.7	+02.5	279	02.9	+02.4	280	02.0	+02.5	281	01.1	+02.5
04	293	06.2	+02.4	294	05.3	+02.5	295	04.5	+02.4	296	03.6	+02.5
05	308	08.6	+02.5	309	07.8	+02.4	310	06.9	+02.5	311	06.1	+02.4
06	323	11.1	+02.5	324	10.2	+02.5	325	09.4	+02.4	326	08.5	+02.5
07	338	13.6	+02.4	339	12.7	+02.5	340	11.8	+02.5	341	11.0	+02.5
08	353	16.0	+02.5	354	15.2	+02.4	355	14.3	+02.5	356	13.5	+02.4
09	8	18.5	+02.5	9	17.6	+02.5	10	16.8	+02.4	11	15.9	+02.5
10	23	21.0	+02.4	24	20.1	+02.5	25	19.2	+02.5	26	18.4	+02.4
11	38	23.4	+02.5	39	22.6	+02.4	40	21.7	+02.5	41	20.8	+02.5
12	53	25.9	+02.5	54	25.0	+02.5	55	24.2	+02.4	56	23.3	+02.5
13	68	28.4	+02.4	69	27.5	+02.5	70	26.6	+02.5	71	25.8	+02.4
14	83	30.8	+02.5	84	30.0	+02.4	85	29.1	+02.5	86	28.2	+02.5
15	98	33.3	+02.4	99	32.4	+02.5	100	31.6	+02.4	101	30.7	+02.5
16	113	35.7	+02.5	114	34.9	+02.5	115	34.0	+02.5	116	33.2	+02.4
17	128	38.2	+02.5	129	37.4	+02.4	130	36.5	+02.5	131	35.6	+02.4
18	143	40.7	+02.4	144	39.8	+02.5	145	39.0	+02.4	146	38.1	+02.5
19	158	43.1	+02.5	159	42.3	+02.4	160	41.4	+02.5	161	40.6	+02.4
20	173	45.6	+02.5	174	44.7	+02.5	175	43.9	+02.4	176	43.0	+02.5
21	188	48.1	+02.4	189	47.2	+02.5	190	46.3	+02.5	191	45.5	+02.5
22	203	50.5	+02.5	204	49.7	+02.4	205	48.8	+02.5	206	48.0	+02.4
23	218	53.0	+02.5	219	52.1	+02.5	220	51.3	+02.4	221	50.4	+02.5
	233	55.5	+02.4	234	54.6	+02.5	235	53.7	+02.5	236	52.9	+02.4
	248	57.9	+02.5	249	57.1	+02.4	250	56.2	+02.5	251	55.3	+02.5
	252						252			252		

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 36.2	N 29 13.0	Gienah	175 44.8	S 17 40.4
Ankaa	353 08.7	S 42 10.4	Acrux	173 01.4	S 63 14.0
Schedir	349 32.7	N 56 39.6	Gacrux	171 53.0	S 57 14.8
Diphda	348 48.8	S 17 51.5	Alioth	166 14.0	N 55 50.3
Achernar	335 21.5	S 57 06.8	Spica	158 23.5	S 11 17.0
Hamal	327 53.0	N 23 34.3	Alkaid	152 52.7	N 49 12.0
Polaris	315 04.8	N 89 21.5	Hadar	148 37.4	S 60 29.3
Acamar	315 13.1	S 40 12.5	Menkent	147 58.6	S 36 29.0
Menkar	314 07.8	N 04 10.9	Arcturus	145 48.5	N 19 04.5
Mirfak	308 30.6	N 49 56.5	Rigel Kentaurus	139 38.9	S 60 56.3
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.4
Capella	280 24.4	N 46 01.4	Kocab	137 18.8	N 74 03.7
Rigel	281 05.5	S 08 10.5	Alphecca	126 04.6	N 26 38.3
Bellatrix	278 24.6	N 06 22.2	Antares	112 17.2	S 26 29.1
Elnath	278 03.9	N 28 37.7	Atria	107 12.0	S 69 04.2
Alnilam	275 39.4	S 01 11.2	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.9	N 07 24.7	Shaula	96 11.7	S 37 07.2
Canopus	263 53.5	S 52 42.5	Rasalhague	95 59.5	N 12 32.6
Sirius	258 27.5	S 16 44.4	Etamin	90 42.2	N 51 29.1
Adhara	255 07.3	S 29 00.3	Kaus Australis	83 33.8	S 34 22.3
Castor	245 59.0	N 31 50.3	Vega	80 33.8	N 38 48.1
Procyon	244 52.3	N 05 10.3	Nunki	75 49.0	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.8	N 28 00.4
Avior	234 15.8	S 59 35.2	Altair	62 01.1	N 08 55.6
Suhail	222 47.5	S 43 31.8	Peacock	53 07.3	S 56 39.4
Miaplacidus	221 39.0	S 69 49.0	Deneb	49 26.4	N 45 21.6
Alphard	217 49.2	S 08 45.6	Enif	33 39.9	N 09 58.8
Regulus	207 35.9	N 11 51.3	Alnair	27 34.4	S 46 50.6
Dubhe	193 42.6	N 61 37.8	Formalhaut	15 16.0	S 29 29.7
Denebola	182 26.1	N 14 26.6	Markab	13 31.2	N 15 19.7

# 2023 - First Point of Aries / Selected Stars

	day 171 of 365		day 172 of 365		day 173 of 365		day 174 of 365		day 175 of 365			
UT	June	20	June	21	June	22	June	23	June	24	UT	
00	267	57.0	+02.4	268	56.1	+02.5	269	55.2	+02.5	270	54.4	+02.4
01	282	59.4	+02.5	283	58.6	+02.4	284	57.7	+02.5	285	56.8	+02.5
02	298	01.9	+02.4	299	01.0	+02.5	300	00.2	+02.4	300	59.3	+02.5
03	313	04.3	+02.5	314	03.5	+02.4	315	02.6	+02.5	316	01.8	+02.4
04	328	06.8	+02.5	329	05.9	+02.5	330	05.1	+02.5	331	04.2	+02.5
05	343	09.3	+02.4	344	08.4	+02.5	345	07.6	+02.4	346	06.7	+02.5
06	358	11.7	+02.5	359	10.9	+02.4	0	10.0	+02.5	1	09.2	+02.4
07	13	14.2	+02.5	14	13.3	+02.5	15	12.5	+02.4	16	11.6	+02.5
08	28	16.7	+02.4	29	15.8	+02.5	30	14.9	+02.5	31	14.1	+02.4
09	43	19.1	+02.5	44	18.3	+02.4	45	17.4	+02.5	46	16.5	+02.5
10	58	21.6	+02.5	59	20.7	+02.5	60	19.9	+02.4	61	19.0	+02.5
11	73	24.1	+02.4	74	23.2	+02.5	75	22.3	+02.5	76	21.5	+02.4
12	88	26.5	+02.5	89	25.7	+02.4	90	24.8	+02.5	91	23.9	+02.5
13	103	29.0	+02.5	104	28.1	+02.5	105	27.3	+02.4	106	26.4	+02.5
14	118	31.5	+02.4	119	30.6	+02.5	120	29.7	+02.5	121	28.9	+02.4
15	133	33.9	+02.5	134	33.1	+02.4	135	32.2	+02.5	136	31.3	+02.5
16	148	36.4	+02.4	149	35.5	+02.5	150	34.7	+02.4	151	33.8	+02.5
17	163	38.8	+02.5	164	38.0	+02.4	165	37.1	+02.5	166	36.3	+02.4
18	178	41.3	+02.5	179	40.4	+02.5	180	39.6	+02.5	181	38.7	+02.5
19	193	43.8	+02.4	194	42.9	+02.5	195	42.1	+02.4	196	41.2	+02.5
20	208	46.2	+02.5	209	45.4	+02.4	210	44.5	+02.5	211	43.7	+02.4
21	223	48.7	+02.5	224	47.8	+02.5	225	47.0	+02.4	226	46.1	+02.5
22	238	51.2	+02.4	239	50.3	+02.5	240	49.4	+02.5	241	48.6	+02.4
23	253	53.6	+02.5	254	52.8	+02.4	255	51.9	+02.5	256	51.0	+02.5

	SHA	Dec		SHA	Dec
Alpheratz	357 36.2	N 29 13.0	Gienah	175 44.8	S 17 40.4
Ankaa	353 08.6	S 42 10.4	Acrux	173 01.4	S 63 14.0
Schedir	349 32.7	N 56 39.6	Gacrux	171 53.0	S 57 14.8
Diphda	348 48.8	S 17 51.4	Alioth	166 14.1	N 55 50.3
Achernar	335 21.5	S 57 06.8	Spica	158 23.5	S 11 17.0
Hamal	327 52.9	N 23 34.3	Alkaid	152 52.7	N 49 12.0
Polaris	315 02.6	N 89 21.5	Hadar	148 37.5	S 60 29.4
Acamar	315 13.1	S 40 12.5	Menkent	147 58.6	S 36 29.0
Menkar	314 07.8	N 04 10.9	Arcturus	145 48.5	N 19 04.5
Mirfak	308 30.5	N 49 56.5	Rigel Kentaurus	139 38.9	S 60 56.3
Aldebaran	290 41.5	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.4
Capella	280 24.3	N 46 01.4	Kocab	137 18.9	N 74 03.8
Rigel	281 05.5	S 08 10.5	Alphecca	126 04.6	N 26 38.3
Bellatrix	278 24.6	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.9	N 28 37.7	Atria	107 11.9	S 69 04.2
Alnilam	275 39.4	S 01 11.2	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.8	N 07 24.7	Shaula	96 11.7	S 37 07.2
Canopus	263 53.5	S 52 42.5	Rasalhague	95 59.4	N 12 32.7
Sirius	258 27.5	S 16 44.4	Etamin	90 42.2	N 51 29.1
Adhara	255 07.2	S 29 00.2	Kaus Australis	83 33.8	S 34 22.3
Castor	245 59.0	N 31 50.3	Vega	80 33.8	N 38 48.1
Procyon	244 52.3	N 05 10.3	Nunki	75 49.0	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.8	N 28 00.4
Avior	234 15.8	S 59 35.2	Altair	62 01.1	N 08 55.6
Suhail	222 47.6	S 43 31.7	Peacock	53 07.3	S 56 39.4
Miplacidus	221 39.0	S 69 49.0	Deneb	49 26.3	N 45 21.6
Alphard	217 49.2	S 08 45.6	Enif	33 39.9	N 09 58.8
Regulus	207 35.9	N 11 51.3	Alnair	27 34.4	S 46 50.6
Dubhe	193 42.6	N 61 37.8	Formalhaut	15 16.0	S 29 29.7
Denebola	182 26.1	N 14 26.6	Markab	13 31.1	N 15 19.8

# 2023 - First Point of Aries / Selected Stars

	day 176 of 365		day 177 of 365		day 178 of 365		day 179 of 365		day 180 of 365			
UT	June	25	June	26	June	27	June	28	June	29	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	272	52.6	+02.5	273	51.8	+02.5	274	50.9	+02.5	275	50.1	+02.4
03	287	55.1	+02.5	288	54.3	+02.4	289	53.4	+02.5	290	52.5	+02.5
04	302	57.6	+02.4	303	56.7	+02.5	304	55.9	+02.4	305	55.0	+02.5
05	318	00.0	+02.5	318	59.2	+02.4	319	58.3	+02.5	320	57.5	+02.4
06	333	02.5	+02.5	334	01.6	+02.5	335	00.8	+02.4	335	59.9	+02.5
07	348	05.0	+02.4	349	04.1	+02.5	350	03.2	+02.5	351	02.4	+02.4
08	3	07.4	+02.5	4	06.6	+02.4	5	05.7	+02.5	6	04.8	+02.5
09	18	09.9	+02.5	19	09.0	+02.5	20	08.2	+02.4	21	07.3	+02.5
10	33	12.4	+02.4	34	11.5	+02.5	35	10.6	+02.5	36	09.8	+02.4
11	48	14.8	+02.5	49	14.0	+02.4	50	13.1	+02.5	51	12.2	+02.5
12	63	17.3	+02.5	64	16.4	+02.5	65	15.6	+02.4	66	14.7	+02.5
13	78	19.8	+02.4	79	18.9	+02.5	80	18.0	+02.5	81	17.2	+02.4
14	93	22.2	+02.5	94	21.4	+02.4	95	20.5	+02.5	96	19.6	+02.5
15	108	24.7	+02.4	109	23.8	+02.5	110	23.0	+02.4	111	22.1	+02.5
16	123	27.1	+02.5	124	26.3	+02.4	125	25.4	+02.5	126	24.6	+02.4
17	138	29.6	+02.5	139	28.7	+02.5	140	27.9	+02.4	141	27.0	+02.5
18	153	32.1	+02.4	154	31.2	+02.5	155	30.3	+02.5	156	29.5	+02.5
19	168	34.5	+02.5	169	33.7	+02.4	170	32.8	+02.5	171	32.0	+02.4
20	183	37.0	+02.5	184	36.1	+02.5	185	35.3	+02.4	186	34.4	+02.5
21	198	39.5	+02.4	199	38.6	+02.5	200	37.7	+02.5	201	36.9	+02.4
22	213	41.9	+02.5	214	41.1	+02.4	215	40.2	+02.5	216	39.3	+02.5
23	228	44.4	+02.5	229	43.5	+02.5	230	42.7	+02.4	231	41.8	+02.5
	243	46.9	+02.4	244	46.0	+02.5	245	45.1	+02.5	246	44.3	+02.4
	258	49.3	+02.5	259	48.5	+02.4	260	47.6	+02.5	261	46.7	+02.5

	SHA	Dec	SHA	Dec
	°	,	°	,
Alpheratz	357	36.2	N	29 13.1
Ankaa	353	08.6	S	42 10.4
Schedir	349	32.6	N	56 39.6
Diphda	348	48.7	S	17 51.4
Achernar	335	21.4	S	57 06.8
Hamal	327	52.9	N	23 34.3
Polaris	315	00.8	N	89 21.5
Acamar	315	13.0	S	40 12.5
Menkar	314	07.7	N	04 10.9
Mirfak	308	30.5	N	49 56.5
Aldebaran	290	41.4	N	16 33.4
Capella	280	24.3	N	46 01.4
Rigel	281	05.4	S	08 10.4
Bellatrix	278	24.6	N	06 22.3
Elnath	278	03.9	N	28 37.7
Alnilam	275	39.4	S	01 11.2
Betelgeuze	270	53.8	N	07 24.7
Canopus	263	53.5	S	52 42.4
Sirius	258	27.5	S	16 44.4
Adhara	255	07.2	S	29 00.2
Castor	245	59.0	N	31 50.3
Procyon	244	52.3	N	05 10.3
Pollux	243	18.9	N	27 58.3
Avior	234	15.8	S	59 35.2
Suhail	222	47.6	S	43 31.7
Miaplacidus	221	39.1	S	69 49.0
Alphard	217	49.2	S	08 45.6
Regulus	207	35.9	N	11 51.3
Dubhe	193	42.7	N	61 37.8
Denebola	182	26.1	N	14 26.6
Gienah	175	44.8	S	17 40.4
Acrux	173	01.5	S	63 14.0
Gacrux	171	53.1	S	57 14.8
Alioth	166	14.1	N	55 50.3
Spica	158	23.5	S	11 17.0
Alkaid	152	52.8	N	49 12.0
Hadar	148	37.5	S	60 29.4
Menkent	147	58.6	S	36 29.0
Arcturus	145	48.5	N	19 04.5
Rigel Kentaurus	139	38.9	S	60 56.3
Zubenelgenubi	136	57.2	S	16 08.4
Kocab	137	18.9	N	74 03.8
Alphecca	126	04.6	N	26 38.3
Antares	112	17.2	S	26 29.1
Atria	107	11.9	S	69 04.2
Sabik	102	03.9	S	15 45.3
Shaula	96	11.7	S	37 07.2
Rasalhague	95	59.4	N	12 32.7
Etamin	90	42.2	N	51 29.1
Kaus Australis	83	33.8	S	34 22.3
Vega	80	33.7	N	38 48.1
Nunki	75	49.0	S	26 16.0
Albireo	67	04.7	N	28 00.4
Altair	62	01.1	N	08 55.6
Peacock	53	07.2	S	56 39.4
Deneb	49	26.3	N	45 21.6
Enif	33	39.9	N	09 58.9
Alnair	27	34.3	S	46 50.6
Formalhaut	15	15.9	S	29 29.7
Markab	13	31.1	N	15 19.8

# 2023 - 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	
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	277 48.3	+02.5	278 47.5	+02.4	279 46.6	+02.5	280 45.8	+02.4	281 44.9	+02.5	02
03	292 50.8	+02.5	293 49.9	+02.5	294 49.1	+02.5	295 48.2	+02.5	296 47.4	+02.4	03
04	307 53.3	+02.4	308 52.4	+02.5	309 51.6	+02.4	310 50.7	+02.5	311 49.8	+02.5	04
05	322 55.7	+02.5	323 54.9	+02.4	324 54.0	+02.5	325 53.2	+02.4	326 52.3	+02.5	05
06	337 58.2	+02.5	338 57.3	+02.5	339 56.5	+02.4	340 55.6	+02.5	341 54.8	+02.4	06
07	353 00.7	+02.4	353 59.8	+02.5	354 58.9	+02.5	355 58.1	+02.5	356 57.2	+02.5	07
08	8 03.1	+02.5	9 02.3	+02.4	10 01.4	+02.5	11 00.6	+02.4	11 59.7	+02.5	08
09	23 05.6	+02.5	24 04.7	+02.5	25 03.9	+02.4	26 03.0	+02.5	27 02.2	+02.4	09
10	38 08.1	+02.4	39 07.2	+02.5	40 06.3	+02.5	41 05.5	+02.4	42 04.6	+02.5	10
11	53 10.5	+02.5	54 09.7	+02.4	55 08.8	+02.5	56 07.9	+02.5	57 07.1	+02.4	11
12	68 13.0	+02.4	69 12.1	+02.5	70 11.3	+02.4	71 10.4	+02.5	72 09.5	+02.5	12
13	83 15.4	+02.5	84 14.6	+02.5	85 13.7	+02.5	86 12.9	+02.4	87 12.0	+02.5	13
14	98 17.9	+02.5	99 17.1	+02.4	100 16.2	+02.5	101 15.3	+02.5	102 14.5	+02.4	14
15	113 20.4	+02.4	114 19.5	+02.5	115 18.7	+02.4	116 17.8	+02.5	117 16.9	+02.5	15
16	128 22.8	+02.5	129 22.0	+02.4	130 21.1	+02.5	131 20.3	+02.4	132 19.4	+02.5	16
17	143 25.3	+02.5	144 24.4	+02.5	145 23.6	+02.5	146 22.7	+02.5	147 21.9	+02.4	17
18	158 27.8	+02.4	159 26.9	+02.5	160 26.1	+02.4	161 25.2	+02.5	162 24.3	+02.5	18
19	173 30.2	+02.5	174 29.4	+02.4	175 28.5	+02.5	176 27.7	+02.4	177 26.8	+02.5	19
20	188 32.7	+02.5	189 31.8	+02.5	190 31.0	+02.4	191 30.1	+02.5	192 29.3	+02.4	20
21	203 35.2	+02.4	204 34.3	+02.5	205 33.4	+02.5	206 32.6	+02.4	207 31.7	+02.5	21
22	218 37.6	+02.5	219 36.8	+02.4	220 35.9	+02.5	221 35.0	+02.5	222 34.2	+02.5	22
23	233 40.1	+02.5	234 39.2	+02.5	235 38.4	+02.4	236 37.5	+02.5	237 36.7	+02.4	23
	248 42.6	+02.4	249 41.7	+02.5	250 40.8	+02.5	251 40.0	+02.4	252 39.1	+02.5	
	263 45.0	+02.5	264 44.2	+02.4	265 43.3	+02.5	266 42.4	+02.5	267 41.6	+02.4	

	SHA	Dec		SHA	Dec
	° ,'	° ,'		° ,'	° ,'
Alpheratz	357 36.1	N 29 13.1	Gienah	175 44.9	S 17 40.4
Ankaa	353 08.5	S 42 10.4	Acrux	173 01.5	S 63 14.0
Schedir	349 32.6	N 56 39.7	Gacrux	171 53.1	S 57 14.8
Diphda	348 48.7	S 17 51.4	Alioth	166 14.1	N 55 50.3
Achernar	335 21.4	S 57 06.8	Spica	158 23.6	S 11 17.0
Hamal	327 52.9	N 23 34.3	Alkaid	152 52.8	N 49 12.1
Polaris	314 58.6	N 89 21.5	Hadar	148 37.5	S 60 29.4
Acamar	315 13.0	S 40 12.5	Menkent	147 58.6	S 36 29.0
Menkar	314 07.7	N 04 10.9	Arcturus	145 48.5	N 19 04.5
Mirfak	308 30.5	N 49 56.5	Rigel Kentaurus	139 39.0	S 60 56.3
Aldebaran	290 41.4	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.3	N 46 01.4	Kocab	137 19.0	N 74 03.8
Rigel	281 05.4	S 08 10.4	Alphecca	126 04.6	N 26 38.3
Bellatrix	278 24.6	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.9	N 28 37.7	Atria	107 11.9	S 69 04.3
Alnilam	275 39.4	S 01 11.2	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.8	N 07 24.7	Shaula	96 11.7	S 37 07.3
Canopus	263 53.5	S 52 42.4	Rasalhague	95 59.4	N 12 32.7
Sirius	258 27.5	S 16 44.4	Etamin	90 42.2	N 51 29.2
Adhara	255 07.2	S 29 00.2	Kaus Australis	83 33.8	S 34 22.3
Castor	245 59.0	N 31 50.3	Vega	80 33.7	N 38 48.2
Procyon	244 52.3	N 05 10.3	Nunki	75 49.0	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.7	N 28 00.5
Avior	234 15.8	S 59 35.2	Altair	62 01.1	N 08 55.6
Suhail	222 47.6	S 43 31.7	Peacock	53 07.2	S 56 39.4
Miaplacidus	221 39.1	S 69 49.0	Deneb	49 26.3	N 45 21.7
Alphard	217 49.2	S 08 45.6	Enif	33 39.8	N 09 58.9
Regulus	207 35.9	N 11 51.3	Alnair	27 34.3	S 46 50.6
Dubhe	193 42.7	N 61 37.8	Formalhaut	15 15.9	S 29 29.7
Denebola	182 26.1	N 14 26.6	Markab	13 31.1	N 15 19.8

# 2023 - First Point of Aries / Selected Stars

	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	UT
00	GHA	ddGHA	00								
01	° ,'	,	° ,'	,	° ,'	,	° ,'	,	° ,'	,	01
02	282 44.0	+02.5	283 43.2	+02.5	284 42.3	+02.5	285 41.5	+02.4	286 40.6	+02.5	02
03	297 46.5	+02.5	298 45.7	+02.4	299 44.8	+02.5	300 43.9	+02.5	301 43.1	+02.4	03
04	312 49.0	+02.4	313 48.1	+02.5	314 47.3	+02.4	315 46.4	+02.5	316 45.5	+02.5	04
05	327 51.4	+02.5	328 50.6	+02.4	329 49.7	+02.5	330 48.9	+02.4	331 48.0	+02.5	05
06	342 53.9	+02.5	343 53.0	+02.5	344 52.2	+02.4	345 51.3	+02.5	346 50.5	+02.4	06
07	357 56.4	+02.4	358 55.5	+02.5	359 54.6	+02.5	0 53.8	+02.5	1 52.9	+02.5	07
08	12 58.8	+02.5	13 58.0	+02.4	14 57.1	+02.5	15 56.3	+02.4	16 55.4	+02.5	08
09	28 01.3	+02.5	29 00.4	+02.5	29 59.6	+02.4	30 58.7	+02.5	31 57.9	+02.4	09
10	43 03.8	+02.4	44 02.9	+02.5	45 02.0	+02.5	46 01.2	+02.4	47 00.3	+02.5	10
11	58 06.2	+02.5	59 05.4	+02.4	60 04.5	+02.5	61 03.6	+02.5	62 02.8	+02.4	11
12	73 08.7	+02.5	74 07.8	+02.5	75 07.0	+02.4	76 06.1	+02.5	77 05.2	+02.5	12
13	88 11.2	+02.4	89 10.3	+02.5	90 09.4	+02.5	91 08.6	+02.4	92 07.7	+02.5	13
14	103 13.6	+02.5	104 12.8	+02.4	105 11.9	+02.5	106 11.0	+02.5	107 10.2	+02.4	14
15	118 16.1	+02.4	119 15.2	+02.5	120 14.4	+02.4	121 13.5	+02.5	122 12.6	+02.5	15
16	133 18.5	+02.5	134 17.7	+02.5	135 16.8	+02.5	136 16.0	+02.4	137 15.1	+02.5	16
17	148 21.0	+02.5	149 20.2	+02.4	150 19.3	+02.5	151 18.4	+02.5	152 17.6	+02.4	17
18	163 23.5	+02.4	164 22.6	+02.5	165 21.8	+02.4	166 20.9	+02.5	167 20.0	+02.5	18
19	178 25.9	+02.5	179 25.1	+02.4	180 24.2	+02.5	181 23.4	+02.4	182 22.5	+02.5	19
20	193 28.4	+02.5	194 27.5	+02.5	195 26.7	+02.4	196 25.8	+02.5	197 25.0	+02.4	20
21	208 30.9	+02.4	209 30.0	+02.5	210 29.1	+02.5	211 28.3	+02.4	212 27.4	+02.5	21
22	223 33.3	+02.5	224 32.5	+02.4	225 31.6	+02.5	226 30.7	+02.5	227 29.9	+02.4	22
23	238 35.8	+02.5	239 34.9	+02.5	240 34.1	+02.4	241 33.2	+02.5	242 32.3	+02.5	23
	253 38.3	+02.4	254 37.4	+02.5	255 36.5	+02.5	256 35.7	+02.4	257 34.8	+02.5	
	268 40.7	+02.5	269 39.9	+02.4	270 39.0	+02.5	271 38.1	+02.5	272 37.3	+02.4	

	SHA	Dec		SHA	Dec
	° ,'	° ,'		° ,'	° ,'
Alpheratz	357 36.1	N 29 13.1	Gienah	175 44.9	S 17 40.4
Ankaa	353 08.5	S 42 10.4	Acrux	173 01.5	S 63 14.0
Schedir	349 32.5	N 56 39.7	Gacrux	171 53.1	S 57 14.8
Diphda	348 48.6	S 17 51.4	Alioth	166 14.2	N 55 50.3
Achernar	335 21.3	S 57 06.8	Spica	158 23.6	S 11 17.0
Hamal	327 52.8	N 23 34.3	Alkaid	152 52.8	N 49 12.1
Polaris	314 56.0	N 89 21.5	Hadar	148 37.5	S 60 29.4
Acamar	315 12.9	S 40 12.4	Menkent	147 58.6	S 36 29.0
Menkar	314 07.6	N 04 10.9	Arcturus	145 48.5	N 19 04.5
Mirfak	308 30.4	N 49 56.5	Rigel Kentaurus	139 39.0	S 60 56.3
Aldebaran	290 41.4	N 16 33.4	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.2	N 46 01.4	Kocab	137 19.1	N 74 03.8
Rigel	281 05.4	S 08 10.4	Alphecca	126 04.6	N 26 38.3
Bellatrix	278 24.5	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.8	N 28 37.7	Atria	107 11.9	S 69 04.3
Alnilam	275 39.3	S 01 11.2	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.8	N 07 24.7	Shaula	96 11.7	S 37 07.3
Canopus	263 53.5	S 52 42.4	Rasalhague	95 59.4	N 12 32.7
Sirius	258 27.5	S 16 44.4	Etamin	90 42.2	N 51 29.2
Adhara	255 07.2	S 29 00.2	Kaus Australis	83 33.8	S 34 22.3
Castor	245 59.0	N 31 50.3	Vega	80 33.7	N 38 48.2
Procyon	244 52.2	N 05 10.3	Nunki	75 48.9	S 26 16.0
Pollux	243 18.9	N 27 58.3	Albireo	67 04.7	N 28 00.5
Avior	234 15.8	S 59 35.1	Altair	62 01.0	N 08 55.7
Suhail	222 47.6	S 43 31.7	Peacock	53 07.1	S 56 39.4
Miaplacidus	221 39.2	S 69 49.0	Deneb	49 26.2	N 45 21.7
Alphard	217 49.2	S 08 45.6	Enif	33 39.8	N 09 58.9
Regulus	207 35.9	N 11 51.3	Alnair	27 34.2	S 46 50.6
Dubhe	193 42.7	N 61 37.8	Formalhaut	15 15.8	S 29 29.7
Denebola	182 26.1	N 14 26.6	Markab	13 31.0	N 15 19.8

# 2023 - First Point of Aries / Selected Stars

	day 191 of 365		day 192 of 365		day 193 of 365		day 194 of 365		day 195 of 365			
UT	July	10	July	11	July	12	July	13	July	14	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	287	39.7	+02.5	288	38.9	+02.4	289	38.0	+02.5	290	37.2	+02.4
03	302	42.2	+02.5	303	41.3	+02.5	304	40.5	+02.4	305	39.6	+02.5
04	317	44.7	+02.4	318	43.8	+02.5	319	42.9	+02.5	320	42.1	+02.5
05	332	47.1	+02.5	333	46.3	+02.4	334	45.4	+02.5	335	44.6	+02.4
06	347	49.6	+02.5	348	48.7	+02.5	349	47.9	+02.4	350	47.0	+02.5
07	2	52.1	+02.4	3	51.2	+02.5	4	50.3	+02.5	5	49.5	+02.4
08	17	54.5	+02.5	18	53.7	+02.4	19	52.8	+02.5	20	51.9	+02.5
09	32	57.0	+02.5	33	56.1	+02.5	34	55.3	+02.4	35	54.4	+02.5
10	47	59.5	+02.4	48	58.6	+02.5	49	57.7	+02.5	50	56.9	+02.4
11	63	01.9	+02.5	64	01.1	+02.4	65	00.2	+02.5	65	59.3	+02.5
12	78	04.4	+02.4	79	03.5	+02.5	80	02.7	+02.4	81	01.8	+02.5
13	93	06.8	+02.5	94	06.0	+02.4	95	05.1	+02.5	96	04.3	+02.4
14	108	09.3	+02.5	109	08.4	+02.5	110	07.6	+02.5	111	06.7	+02.5
15	123	11.8	+02.4	124	10.9	+02.5	125	10.1	+02.4	126	09.2	+02.5
16	138	14.2	+02.5	139	13.4	+02.4	140	12.5	+02.5	141	11.7	+02.4
17	153	16.7	+02.5	154	15.8	+02.5	155	15.0	+02.4	156	14.1	+02.5
18	168	19.2	+02.4	169	18.3	+02.5	170	17.4	+02.5	171	16.6	+02.4
19	183	21.6	+02.5	184	20.8	+02.4	185	19.9	+02.5	186	19.0	+02.5
20	198	24.1	+02.5	199	23.2	+02.5	200	22.4	+02.4	201	21.5	+02.5
21	213	26.6	+02.4	214	25.7	+02.5	215	24.8	+02.5	216	24.0	+02.4
22	228	29.0	+02.5	229	28.2	+02.4	230	27.3	+02.5	231	26.4	+02.5
23	243	31.5	+02.5	244	30.6	+02.5	245	29.8	+02.4	246	28.9	+02.5
	258	34.0	+02.4	259	33.1	+02.5	260	32.2	+02.5	261	31.4	+02.4
	273	36.4	+02.5	274	35.6	+02.4	275	34.7	+02.5	276	33.8	+02.5
	277	33.0	+02.4				277	33.0	+02.4			

	SHA	Dec		SHA	Dec						
	°	,	°	,	°						
Alpheratz	357	36.0	N	29	13.1	Gienah	175	44.9	S	17	40.4
Ankaa	353	08.4	S	42	10.3	Acrux	173	01.6	S	63	14.0
Schedir	349	32.4	N	56	39.7	Gacrux	171	53.2	S	57	14.8
Diphda	348	48.6	S	17	51.4	Alioth	166	14.2	N	55	50.3
Achernar	335	21.3	S	57	06.8	Spica	158	23.6	S	11	17.0
Hamal	327	52.8	N	23	34.3	Alkaid	152	52.8	N	49	12.1
Polaris	314	54.0	N	89	21.5	Hadar	148	37.6	S	60	29.4
Acamar	315	12.9	S	40	12.4	Menkent	147	58.7	S	36	29.0
Menkar	314	07.6	N	04	10.9	Arcturus	145	48.5	N	19	04.5
Mirfak	308	30.3	N	49	56.5	Rigel Kentaurus	139	39.0	S	60	56.3
Aldebaran	290	41.3	N	16	33.4	Zubenelgenubi	136	57.2	S	16	08.3
Capella	280	24.2	N	46	01.4	Kocab	137	19.2	N	74	03.8
Rigel	281	05.4	S	08	10.4	Alphecca	126	04.6	N	26	38.3
Bellatrix	278	24.5	N	06	22.3	Antares	112	17.2	S	26	29.1
Elnath	278	03.8	N	28	37.7	Atria	107	11.9	S	69	04.3
Alnilam	275	39.3	S	01	11.2	Sabik	102	03.9	S	15	45.3
Betelgeuze	270	53.8	N	07	24.7	Shaula	96	11.7	S	37	07.3
Canopus	263	53.5	S	52	42.4	Rasalhague	95	59.4	N	12	32.7
Sirius	258	27.5	S	16	44.3	Etamin	90	42.2	N	51	29.2
Adhara	255	07.2	S	29	00.1	Kaus Australis	83	33.7	S	34	22.4
Castor	245	59.0	N	31	50.3	Vega	80	33.7	N	38	48.2
Procyon	244	52.2	N	05	10.3	Nunki	75	48.9	S	26	16.0
Pollux	243	18.9	N	27	58.3	Albireo	67	04.7	N	28	00.5
Avior	234	15.9	S	59	35.1	Altair	62	01.0	N	08	55.7
Suhail	222	47.6	S	43	31.7	Peacock	53	07.1	S	56	39.4
Miaplacidus	221	39.2	S	69	48.9	Deneb	49	26.2	N	45	21.7
Alphard	217	49.3	S	08	45.6	Enif	33	39.8	N	09	58.9
Regulus	207	35.9	N	11	51.3	Alnair	27	34.2	S	46	50.6
Dubhe	193	42.8	N	61	37.8	Formalhaut	15	15.8	S	29	29.7
Denebola	182	26.2	N	14	26.6	Markab	13	31.0	N	15	19.8

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	GHA	ddGHA	00									
01	°	,	°	,	°	,	°	,	°	,	01	
02	292	35.4	+02.5	293	34.6	+02.4	294	33.7	+02.5	295	32.9	+02.4
03	307	37.9	+02.5	308	37.0	+02.5	309	36.2	+02.4	310	35.3	+02.5
04	322	40.4	+02.4	323	39.5	+02.5	324	38.6	+02.5	325	37.8	+02.5
05	337	42.8	+02.5	338	42.0	+02.4	339	41.1	+02.5	340	40.3	+02.4
06	352	45.3	+02.5	353	44.4	+02.5	354	43.6	+02.4	355	42.7	+02.5
07	7	47.8	+02.4	8	46.9	+02.5	9	46.0	+02.5	10	45.2	+02.4
08	22	50.2	+02.5	23	49.4	+02.4	24	48.5	+02.5	25	47.6	+02.5
09	37	52.7	+02.5	38	51.8	+02.5	39	51.0	+02.4	40	50.1	+02.5
10	52	55.2	+02.4	53	54.3	+02.5	54	53.4	+02.5	55	52.6	+02.4
11	67	57.6	+02.5	68	56.8	+02.4	69	55.9	+02.5	70	55.0	+02.5
12	83	00.1	+02.4	83	59.2	+02.5	84	58.4	+02.4	85	57.5	+02.5
13	98	02.5	+02.5	99	01.7	+02.5	100	00.8	+02.5	100	60.0	+02.4
14	113	05.0	+02.5	114	04.2	+02.4	115	03.3	+02.5	116	02.4	+02.5
15	128	07.5	+02.4	129	06.6	+02.5	130	05.8	+02.4	131	04.9	+02.5
16	143	09.9	+02.5	144	09.1	+02.4	145	08.2	+02.5	146	07.4	+02.4
17	158	12.4	+02.5	159	11.5	+02.5	160	10.7	+02.4	161	09.8	+02.5
18	173	14.9	+02.4	174	14.0	+02.5	175	13.1	+02.5	176	12.3	+02.5
19	188	17.3	+02.5	189	16.5	+02.4	190	15.6	+02.5	191	14.8	+02.4
20	203	19.8	+02.5	204	18.9	+02.5	205	18.1	+02.4	206	17.2	+02.5
21	218	22.3	+02.4	219	21.4	+02.5	220	20.5	+02.5	221	19.7	+02.4
22	233	24.7	+02.5	234	23.9	+02.4	235	23.0	+02.5	236	22.1	+02.5
23	248	27.2	+02.5	249	26.3	+02.5	250	25.5	+02.4	251	24.6	+02.5
	263	29.7	+02.4	264	28.8	+02.5	265	27.9	+02.5	266	27.1	+02.4
	278	32.1	+02.5	279	31.3	+02.4	280	30.4	+02.5	281	29.5	+02.5
	282	30.7	+02.4				282	28.7	+02.4			

	SHA	Dec	SHA	Dec
	° ,	° ,	° ,	° ,
Alpheratz	357	36.0	N	29 13.1
Ankaa	353	08.4	S	42 10.3
Schedir	349	32.4	N	56 39.7
Diphda	348	48.6	S	17 51.4
Achernar	335	21.2	S	57 06.7
Hamal	327	52.7	N	23 34.4
Polaris	314	51.3	N	89 21.5
Acamar	315	12.9	S	40 12.4
Menkar	314	07.6	N	04 11.0
Mirfak	308	30.3	N	49 56.5
Aldebaran	290	41.3	N	16 33.4
Capella	280	24.2	N	46 01.3
Rigel	281	05.3	S	08 10.4
Bellatrix	278	24.5	N	06 22.3
Elnath	278	03.8	N	28 37.7
Alnilam	275	39.3	S	01 11.1
Betelgeuze	270	53.7	N	07 24.7
Canopus	263	53.5	S	52 42.3
Sirius	258	27.5	S	16 44.3
Adhara	255	07.2	S	29 00.1
Castor	245	59.0	N	31 50.3
Procyon	244	52.2	N	05 10.3
Pollux	243	18.8	N	27 58.3
Avior	234	15.9	S	59 35.1
Suhail	222	47.6	S	43 31.7
Miaplacidus	221	39.2	S	69 48.9
Alphard	217	49.3	S	08 45.6
Regulus	207	35.9	N	11 51.3
Dubhe	193	42.8	N	61 37.8
Denebola	182	26.2	N	14 26.7
Gienah	175	44.9	S	17 40.4
Acrux	173	01.6	S	63 14.0
Gacrux	171	53.2	S	57 14.8
Alioth	166	14.2	N	55 50.3
Spica	158	23.6	S	11 17.0
Alkaid	152	52.9	N	49 12.1
Hadar	148	37.6	S	60 29.4
Menkent	147	58.7	S	36 29.0
Arcturus	145	48.6	N	19 04.5
Rigel Kentaurus	139	39.0	S	60 56.3
Zubenelgenubi	136	57.2	S	16 08.3
Kocab	137	19.3	N	74 03.8
Alphecca	126	04.6	N	26 38.3
Antares	112	17.2	S	26 29.1
Atria	107	12.0	S	69 04.3
Sabik	102	03.9	S	15 45.3
Shaula	96	11.7	S	37 07.3
Rasalhague	95	59.4	N	12 32.7
Etamin	90	42.2	N	51 29.2
Kaus Australis	83	33.7	S	34 22.4
Vega	80	33.7	N	38 48.2
Nunki	75	48.9	S	26 16.0
Albireo	67	04.7	N	28 00.5
Altair	62	01.0	N	08 55.7
Peacock	53	07.1	S	56 39.4
Deneb	49	26.2	N	45 21.7
Enif	33	39.7	N	09 58.9
Alnair	27	34.1	S	46 50.6
Formalhaut	15	15.8	S	29 29.7
Markab	13	31.0	N	15 19.9

# 2023 - First Point of Aries / Selected Stars

	day 201 of 365		day 202 of 365		day 203 of 365		day 204 of 365		day 205 of 365			
UT	July	20	July	21	July	22	July	23	July	24	UT	
00	297	31.1	+02.5	298	30.3	+02.4	299	29.4	+02.5	300	28.6	+02.4
01	312	33.6	+02.5	313	32.7	+02.5	314	31.9	+02.4	315	31.0	+02.5
02	327	36.1	+02.4	328	35.2	+02.5	329	34.3	+02.5	330	33.5	+02.4
03	342	38.5	+02.5	343	37.7	+02.4	344	36.8	+02.5	345	35.9	+02.5
04	357	41.0	+02.5	358	40.1	+02.5	359	39.3	+02.4	0	38.4	+02.5
05	12	43.5	+02.4	13	42.6	+02.5	14	41.7	+02.5	15	40.9	+02.4
06	27	45.9	+02.5	28	45.1	+02.4	29	44.2	+02.5	30	43.3	+02.5
07	42	48.4	+02.5	43	47.5	+02.5	44	46.7	+02.4	45	45.8	+02.5
08	57	50.9	+02.4	58	50.0	+02.5	59	49.1	+02.5	60	48.3	+02.4
09	72	53.3	+02.5	73	52.5	+02.4	74	51.6	+02.5	75	50.7	+02.5
10	87	55.8	+02.4	88	54.9	+02.5	89	54.1	+02.4	90	53.2	+02.5
11	102	58.2	+02.5	103	57.4	+02.4	104	56.5	+02.5	105	55.7	+02.4
12	118	00.7	+02.5	118	59.8	+02.5	119	59.0	+02.4	120	58.1	+02.5
13	133	03.2	+02.4	134	02.3	+02.5	135	01.4	+02.5	136	00.6	+02.5
14	148	05.6	+02.5	149	04.8	+02.4	150	03.9	+02.5	151	03.1	+02.4
15	163	08.1	+02.5	164	07.2	+02.5	165	06.4	+02.4	166	05.5	+02.5
16	178	10.6	+02.4	179	09.7	+02.5	180	08.8	+02.5	181	08.0	+02.4
17	193	13.0	+02.5	194	12.2	+02.4	195	11.3	+02.5	196	10.4	+02.5
18	208	15.5	+02.5	209	14.6	+02.5	210	13.8	+02.4	211	12.9	+02.5
19	223	18.0	+02.4	224	17.1	+02.5	225	16.2	+02.5	226	15.4	+02.4
20	238	20.4	+02.5	239	19.6	+02.4	240	18.7	+02.5	241	17.8	+02.5
21	253	22.9	+02.5	254	22.0	+02.5	255	21.2	+02.4	256	20.3	+02.5
22	268	25.4	+02.4	269	24.5	+02.5	270	23.6	+02.5	271	22.8	+02.4
23	283	27.8	+02.5	284	27.0	+02.4	285	26.1	+02.5	286	25.2	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.9	N 29 13.1	Gienah	175 44.9	S 17 40.4
Ankaa	353 08.3	S 42 10.3	Acrux	173 01.7	S 63 14.0
Schedir	349 32.3	N 56 39.7	Gacrux	171 53.2	S 57 14.8
Diphda	348 48.5	S 17 51.3	Alioth	166 14.3	N 55 50.3
Achernar	335 21.1	S 57 06.7	Spica	158 23.6	S 11 17.0
Hamal	327 52.7	N 23 34.4	Alkaid	152 52.9	N 49 12.1
Polaris	314 48.7	N 89 21.5	Hadar	148 37.6	S 60 29.4
Acamar	315 12.8	S 40 12.4	Menkent	147 58.7	S 36 29.0
Menkar	314 07.5	N 04 11.0	Arcturus	145 48.6	N 19 04.5
Mirfak	308 30.2	N 49 56.5	Rigel Kentaurus	139 39.1	S 60 56.3
Aldebaran	290 41.3	N 16 33.5	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.1	N 46 01.3	Kocab	137 19.4	N 74 03.8
Rigel	281 05.3	S 08 10.4	Alphecca	126 04.6	N 26 38.3
Bellatrix	278 24.4	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.7	N 28 37.7	Atria	107 12.0	S 69 04.3
Alnilam	275 39.3	S 01 11.1	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.7	N 07 24.7	Shaula	96 11.7	S 37 07.3
Canopus	263 53.5	S 52 42.3	Rasalhague	95 59.4	N 12 32.7
Sirius	258 27.5	S 16 44.3	Etamin	90 42.3	N 51 29.3
Adhara	255 07.2	S 29 00.1	Kaus Australis	83 33.7	S 34 22.4
Castor	245 58.9	N 31 50.3	Vega	80 33.7	N 38 48.3
Procyon	244 52.2	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.8	N 27 58.3	Albireo	67 04.7	N 28 00.5
Avior	234 15.9	S 59 35.1	Altair	62 01.0	N 08 55.7
Suhail	222 47.6	S 43 31.6	Peacock	53 07.0	S 56 39.5
Miaplacidus	221 39.3	S 69 48.9	Deneb	49 26.2	N 45 21.8
Alphard	217 49.2	S 08 45.6	Enif	33 39.7	N 09 59.0
Regulus	207 35.9	N 11 51.3	Alnair	27 34.1	S 46 50.6
Dubhe	193 42.8	N 61 37.7	Formalhaut	15 15.7	S 29 29.7
Denebola	182 26.2	N 14 26.7	Markab	13 30.9	N 15 19.9

# 2023 - 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
	July 25	GHA ° ,'	July 26	GHA ° ,'	July 27	GHA ° ,'	July 28	GHA ° ,'	July 29	GHA ° ,'	
00	302 26.8	+02.5	303 26.0	+02.4	304 25.1	+02.5	305 24.2	+02.5	306 23.4	+02.5	00
01	317 29.3	+02.5	318 28.4	+02.5	319 27.6	+02.4	320 26.7	+02.5	321 25.9	+02.4	01
02	332 31.8	+02.4	333 30.9	+02.5	334 30.0	+02.5	335 29.2	+02.4	336 28.3	+02.5	02
03	347 34.2	+02.5	348 33.4	+02.4	349 32.5	+02.5	350 31.6	+02.5	351 30.8	+02.4	03
04	2 36.7	+02.5	3 35.8	+02.5	4 35.0	+02.4	5 34.1	+02.5	6 33.2	+02.5	04
05	17 39.2	+02.4	18 38.3	+02.5	19 37.4	+02.5	20 36.6	+02.4	21 35.7	+02.5	05
06	32 41.6	+02.5	33 40.8	+02.4	34 39.9	+02.5	35 39.0	+02.5	36 38.2	+02.4	06
07	47 44.1	+02.4	48 43.2	+02.5	49 42.4	+02.4	50 41.5	+02.5	51 40.6	+02.5	07
08	62 46.5	+02.5	63 45.7	+02.4	64 44.8	+02.5	65 44.0	+02.4	66 43.1	+02.5	08
09	77 49.0	+02.5	78 48.1	+02.5	79 47.3	+02.4	80 46.4	+02.5	81 45.6	+02.4	09
10	92 51.5	+02.4	93 50.6	+02.5	94 49.7	+02.5	95 48.9	+02.5	96 48.0	+02.5	10
11	107 53.9	+02.5	108 53.1	+02.4	109 52.2	+02.5	110 51.4	+02.4	111 50.5	+02.5	11
12	122 56.4	+02.5	123 55.5	+02.5	124 54.7	+02.4	125 53.8	+02.5	126 53.0	+02.4	12
13	137 58.9	+02.4	138 58.0	+02.5	139 57.1	+02.5	140 56.3	+02.4	141 55.4	+02.5	13
14	153 01.3	+02.5	154 00.5	+02.4	154 59.6	+02.5	155 58.7	+02.5	156 57.9	+02.5	14
15	168 03.8	+02.5	169 02.9	+02.5	170 02.1	+02.4	171 01.2	+02.5	172 00.4	+02.4	15
16	183 06.3	+02.4	184 05.4	+02.5	185 04.5	+02.5	186 03.7	+02.4	187 02.8	+02.5	16
17	198 08.7	+02.5	199 07.9	+02.4	200 07.0	+02.5	201 06.1	+02.5	202 05.3	+02.4	17
18	213 11.2	+02.4	214 10.3	+02.5	215 09.5	+02.4	216 08.6	+02.5	217 07.7	+02.5	18
19	228 13.6	+02.5	229 12.8	+02.5	230 11.9	+02.5	231 11.1	+02.4	232 10.2	+02.5	19
20	243 16.1	+02.5	244 15.3	+02.4	245 14.4	+02.5	246 13.5	+02.5	247 12.7	+02.4	20
21	258 18.6	+02.4	259 17.7	+02.5	260 16.9	+02.4	261 16.0	+02.5	262 15.1	+02.5	21
22	273 21.0	+02.5	274 20.2	+02.4	275 19.3	+02.5	276 18.5	+02.4	277 17.6	+02.5	22
23	288 23.5	+02.5	289 22.6	+02.5	290 21.8	+02.4	291 20.9	+02.5	292 20.1	+02.4	23

	SHA ° ,'	Dec		SHA ° ,'	Dec
Alpheratz	357 35.9	N 29 13.2	Gienah	175 44.9	S 17 40.3
Ankaa	353 08.3	S 42 10.3	Acrux	173 01.7	S 63 14.0
Schedir	349 32.3	N 56 39.7	Gacrux	171 53.3	S 57 14.8
Diphda	348 48.5	S 17 51.3	Alioth	166 14.3	N 55 50.3
Achernar	335 21.1	S 57 06.7	Spica	158 23.6	S 11 17.0
Hamal	327 52.6	N 23 34.4	Alkaid	152 52.9	N 49 12.1
Polaris	314 46.4	N 89 21.5	Hadar	148 37.7	S 60 29.4
Acamar	315 12.8	S 40 12.4	Menkent	147 58.7	S 36 29.0
Menkar	314 07.5	N 04 11.0	Arcturus	145 48.6	N 19 04.5
Mirfak	308 30.2	N 49 56.5	Rigel Kentaurus	139 39.1	S 60 56.3
Aldebaran	290 41.2	N 16 33.5	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.1	N 46 01.3	Kocab	137 19.4	N 74 03.8
Rigel	281 05.3	S 08 10.3	Alphecca	126 04.7	N 26 38.4
Bellatrix	278 24.4	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.7	N 28 37.7	Atria	107 12.0	S 69 04.3
Alnilam	275 39.2	S 01 11.1	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.7	N 07 24.7	Shaula	96 11.7	S 37 07.3
Canopus	263 53.4	S 52 42.3	Rasalhague	95 59.4	N 12 32.7
Sirius	258 27.4	S 16 44.3	Etamin	90 42.3	N 51 29.3
Adhara	255 07.2	S 29 00.1	Kaus Australis	83 33.7	S 34 22.4
Castor	245 58.9	N 31 50.3	Vega	80 33.7	N 38 48.3
Procyon	244 52.2	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.8	N 27 58.3	Albireo	67 04.7	N 28 00.6
Avior	234 15.9	S 59 35.0	Altair	62 01.0	N 08 55.7
Suhail	222 47.6	S 43 31.6	Peacock	53 07.0	S 56 39.5
Miaplacidus	221 39.3	S 69 48.9	Deneb	49 26.2	N 45 21.8
Alphard	217 49.3	S 08 45.6	Enif	33 39.7	N 09 59.0
Regulus	207 35.9	N 11 51.3	Alnair	27 34.1	S 46 50.6
Dubhe	193 42.8	N 61 37.7	Formalhaut	15 15.7	S 29 29.7
Denebola	182 26.2	N 14 26.7	Markab	13 30.9	N 15 19.9

# 2023 - First Point of Aries / Selected Stars

	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	UT	
00	307	22.5	+02.5	308	21.7	+02.4	309	20.8	+02.5	310	20.0	+02.4
01	322	25.0	+02.5	323	24.1	+02.5	324	23.3	+02.4	325	22.4	+02.5
02	337	27.5	+02.4	338	26.6	+02.5	339	25.7	+02.5	340	24.9	+02.4
03	352	29.9	+02.5	353	29.1	+02.4	354	28.2	+02.5	355	27.3	+02.5
04	7	32.4	+02.4	8	31.5	+02.5	9	30.7	+02.4	10	29.8	+02.5
05	22	34.8	+02.5	23	34.0	+02.5	24	33.1	+02.5	25	32.3	+02.4
06	37	37.3	+02.5	38	36.5	+02.4	39	35.6	+02.5	40	34.7	+02.5
07	52	39.8	+02.4	53	38.9	+02.5	54	38.1	+02.4	55	37.2	+02.5
08	67	42.2	+02.5	68	41.4	+02.4	69	40.5	+02.5	70	39.7	+02.4
09	82	44.7	+02.5	83	43.8	+02.5	84	43.0	+02.5	85	42.1	+02.5
10	97	47.2	+02.4	98	46.3	+02.5	99	45.5	+02.4	100	44.6	+02.5
11	112	49.6	+02.5	113	48.8	+02.4	114	47.9	+02.5	115	47.1	+02.4
12	127	52.1	+02.5	128	51.2	+02.5	129	50.4	+02.4	130	49.5	+02.5
13	142	54.6	+02.4	143	53.7	+02.5	144	52.8	+02.5	145	52.0	+02.4
14	157	57.0	+02.5	158	56.2	+02.4	159	55.3	+02.5	160	54.4	+02.5
15	172	59.5	+02.5	173	58.6	+02.5	174	57.8	+02.4	175	56.9	+02.5
16	188	02.0	+02.4	189	01.1	+02.5	190	00.2	+02.5	190	59.4	+02.4
17	203	04.4	+02.5	204	03.6	+02.4	205	02.7	+02.5	206	01.8	+02.5
18	218	06.9	+02.4	219	06.0	+02.5	220	05.2	+02.4	221	04.3	+02.5
19	233	09.3	+02.5	234	08.5	+02.5	235	07.6	+02.5	236	06.8	+02.4
20	248	11.8	+02.5	249	11.0	+02.4	250	10.1	+02.5	251	09.2	+02.5
21	263	14.3	+02.4	264	13.4	+02.5	265	12.6	+02.4	266	11.7	+02.5
22	278	16.7	+02.5	279	15.9	+02.4	280	15.0	+02.5	281	14.2	+02.4
23	293	19.2	+02.5	294	18.3	+02.5	295	17.5	+02.5	296	16.6	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.9	N 29 13.2	Gienah	175 44.9	S 17 40.3
Ankaa	353 08.2	S 42 10.3	Acrux	173 01.8	S 63 14.0
Schedir	349 32.2	N 56 39.8	Gacrux	171 53.3	S 57 14.8
Diphda	348 48.4	S 17 51.3	Alioth	166 14.3	N 55 50.2
Achernar	335 21.0	S 57 06.7	Spica	158 23.6	S 11 17.0
Hamal	327 52.6	N 23 34.4	Alkaid	152 53.0	N 49 12.1
Polaris	314 43.5	N 89 21.5	Hadar	148 37.7	S 60 29.4
Acamar	315 12.7	S 40 12.4	Menkent	147 58.7	S 36 29.0
Menkar	314 07.5	N 04 11.0	Arcturus	145 48.6	N 19 04.6
Mirfak	308 30.1	N 49 56.5	Rigel Kentaurus	139 39.2	S 60 56.3
Aldebaran	290 41.2	N 16 33.5	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.0	N 46 01.3	Kocab	137 19.6	N 74 03.8
Rigel	281 05.2	S 08 10.3	Alphecca	126 04.7	N 26 38.4
Bellatrix	278 24.4	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.7	N 28 37.7	Atria	107 12.1	S 69 04.4
Alnilam	275 39.2	S 01 11.1	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.7	N 07 24.8	Shaula	96 11.7	S 37 07.3
Canopus	263 53.4	S 52 42.3	Rasalhague	95 59.4	N 12 32.8
Sirius	258 27.4	S 16 44.3	Etamin	90 42.3	N 51 29.3
Adhara	255 07.1	S 29 00.1	Kaus Australis	83 33.7	S 34 22.4
Castor	245 58.9	N 31 50.3	Vega	80 33.7	N 38 48.3
Procyon	244 52.2	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.8	N 27 58.3	Albireo	67 04.7	N 28 00.6
Avior	234 15.9	S 59 35.0	Altair	62 01.0	N 08 55.7
Suhail	222 47.6	S 43 31.6	Peacock	53 07.0	S 56 39.5
Miaplacidus	221 39.3	S 69 48.8	Deneb	49 26.2	N 45 21.8
Alphard	217 49.2	S 08 45.5	Enif	33 39.7	N 09 59.0
Regulus	207 35.9	N 11 51.3	Alnair	27 34.0	S 46 50.6
Dubhe	193 42.9	N 61 37.7	Formalhaut	15 15.7	S 29 29.6
Denebola	182 26.2	N 14 26.7	Markab	13 30.9	N 15 19.9

# 2023 - First Point of Aries / Selected Stars

	day 216 of 365		day 217 of 365		day 218 of 365		day 219 of 365		day 220 of 365					
UT	August 4	GHA ° ,'	ddGHA	August 5	GHA ° ,'	ddGHA	August 6	GHA ° ,'	ddGHA	August 7	GHA ° ,'	ddGHA	August 8	UT
00	312 18.2	+02.5	313 17.4	+02.4	314 16.5	+02.5	315 15.6	+02.5	316 14.8	+02.4	316 14.8	+02.4	00	
01	327 20.7	+02.5	328 19.8	+02.5	329 19.0	+02.4	330 18.1	+02.5	331 17.2	+02.5	331 17.2	+02.5	01	
02	342 23.2	+02.4	343 22.3	+02.5	344 21.4	+02.5	345 20.6	+02.4	346 19.7	+02.5	346 19.7	+02.5	02	
03	357 25.6	+02.5	358 24.8	+02.4	359 23.9	+02.5	0 23.0	+02.5	1 22.2	+02.4	1 22.2	+02.4	03	
04	12 28.1	+02.4	13 27.2	+02.5	14 26.4	+02.4	15 25.5	+02.5	16 24.6	+02.5	16 24.6	+02.5	04	
05	27 30.5	+02.5	28 29.7	+02.5	29 28.8	+02.5	30 28.0	+02.4	31 27.1	+02.5	31 27.1	+02.5	05	
06	42 33.0	+02.5	43 32.2	+02.4	44 31.3	+02.5	45 30.4	+02.5	46 29.6	+02.4	46 29.6	+02.4	06	
07	57 35.5	+02.4	58 34.6	+02.5	59 33.8	+02.4	60 32.9	+02.5	61 32.0	+02.5	61 32.0	+02.5	07	
08	72 37.9	+02.5	73 37.1	+02.4	74 36.2	+02.5	75 35.4	+02.4	76 34.5	+02.5	76 34.5	+02.5	08	
09	87 40.4	+02.5	88 39.5	+02.5	89 38.7	+02.4	90 37.8	+02.5	91 37.0	+02.4	91 37.0	+02.4	09	
10	102 42.9	+02.4	103 42.0	+02.5	104 41.1	+02.5	105 40.3	+02.4	106 39.4	+02.5	106 39.4	+02.5	10	
11	117 45.3	+02.5	118 44.5	+02.4	119 43.6	+02.5	120 42.7	+02.5	121 41.9	+02.4	121 41.9	+02.4	11	
12	132 47.8	+02.5	133 46.9	+02.5	134 46.1	+02.4	135 45.2	+02.5	136 44.3	+02.5	136 44.3	+02.5	12	
13	147 50.3	+02.4	148 49.4	+02.5	149 48.5	+02.5	150 47.7	+02.4	151 46.8	+02.5	151 46.8	+02.5	13	
14	162 52.7	+02.5	163 51.9	+02.4	164 51.0	+02.5	165 50.1	+02.5	166 49.3	+02.4	166 49.3	+02.4	14	
15	177 55.2	+02.5	178 54.3	+02.5	179 53.5	+02.4	180 52.6	+02.5	181 51.7	+02.5	181 51.7	+02.5	15	
16	192 57.7	+02.4	193 56.8	+02.5	194 55.9	+02.5	195 55.1	+02.4	196 54.2	+02.5	196 54.2	+02.5	16	
17	208 00.1	+02.5	208 59.3	+02.4	209 58.4	+02.5	210 57.5	+02.5	211 56.7	+02.4	211 56.7	+02.4	17	
18	223 02.6	+02.4	224 01.7	+02.5	225 00.9	+02.4	225 60.0	+02.5	226 59.1	+02.5	226 59.1	+02.5	18	
19	238 05.0	+02.5	239 04.2	+02.4	240 03.3	+02.5	241 02.5	+02.4	242 01.6	+02.5	242 01.6	+02.5	19	
20	253 07.5	+02.5	254 06.6	+02.5	255 05.8	+02.4	256 04.9	+02.5	257 04.1	+02.4	257 04.1	+02.4	20	
21	268 10.0	+02.4	269 09.1	+02.5	270 08.2	+02.5	271 07.4	+02.5	272 06.5	+02.5	272 06.5	+02.5	21	
22	283 12.4	+02.5	284 11.6	+02.4	285 10.7	+02.5	286 09.9	+02.4	287 09.0	+02.5	287 09.0	+02.5	22	
23	298 14.9	+02.5	299 14.0	+02.5	300 13.2	+02.4	301 12.3	+02.5	302 11.5	+02.4	302 11.5	+02.4	23	

	SHA ° ,'	Dec		SHA ° ,'	Dec
Alpheratz	357 35.8	N 29 13.2	Gienah	175 44.9	S 17 40.3
Ankaa	353 08.2	S 42 10.3	Acrux	173 01.8	S 63 13.9
Schedir	349 32.1	N 56 39.8	Gacrux	171 53.3	S 57 14.8
Diphda	348 48.4	S 17 51.3	Alioth	166 14.3	N 55 50.2
Achernar	335 21.0	S 57 06.7	Spica	158 23.6	S 11 17.0
Hamal	327 52.6	N 23 34.4	Alkaid	152 53.0	N 49 12.1
Polaris	314 41.0	N 89 21.5	Hadar	148 37.8	S 60 29.4
Acamar	315 12.7	S 40 12.3	Menkent	147 58.8	S 36 29.0
Menkar	314 07.4	N 04 11.0	Arcturus	145 48.6	N 19 04.5
Mirfak	308 30.1	N 49 56.5	Rigel Kentaurus	139 39.2	S 60 56.4
Aldebaran	290 41.2	N 16 33.5	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 24.0	N 46 01.3	Kocab	137 19.6	N 74 03.8
Rigel	281 05.2	S 08 10.3	Alphecca	126 04.7	N 26 38.4
Bellatrix	278 24.4	N 06 22.3	Antares	112 17.2	S 26 29.1
Elnath	278 03.6	N 28 37.7	Atria	107 12.1	S 69 04.4
Alnilam	275 39.2	S 01 11.1	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.6	N 07 24.8	Shaula	96 11.7	S 37 07.3
Canopus	263 53.4	S 52 42.2	Rasalhague	95 59.4	N 12 32.8
Sirius	258 27.4	S 16 44.3	Etamin	90 42.3	N 51 29.3
Adhara	255 07.1	S 29 00.0	Kaus Australis	83 33.7	S 34 22.4
Castor	245 58.9	N 31 50.3	Vega	80 33.7	N 38 48.3
Procyon	244 52.1	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.8	N 27 58.3	Albireo	67 04.7	N 28 00.6
Avior	234 15.9	S 59 35.0	Altair	62 01.0	N 08 55.7
Suhail	222 47.6	S 43 31.6	Peacock	53 07.0	S 56 39.5
Miaplacidus	221 39.3	S 69 48.8	Deneb	49 26.1	N 45 21.9
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.0
Regulus	207 35.9	N 11 51.3	Alnair	27 34.0	S 46 50.6
Dubhe	193 42.9	N 61 37.7	Formalhaut	15 15.6	S 29 29.6
Denebola	182 26.2	N 14 26.6	Markab	13 30.8	N 15 19.9

# 2023 - First Point of Aries / Selected Stars

	day 221 of 365		day 222 of 365		day 223 of 365		day 224 of 365		day 225 of 365				
UT	August 9	GHA	ddGHA	August 10	GHA	ddGHA	August 11	GHA	ddGHA	August 12	GHA	ddGHA	UT
00	317 13.9 +02.5	318 13.1 +02.4	319 12.2 +02.5	320 11.3 +02.5	321 10.5 +02.4	322 10.5 +02.4	00						
01	332 16.4 +02.4	333 15.5 +02.5	334 14.7 +02.4	335 13.8 +02.5	336 12.9 +02.5	337 12.9 +02.5	01						
02	347 18.8 +02.5	348 18.0 +02.5	349 17.1 +02.5	350 16.3 +02.4	351 15.4 +02.5	352 15.4 +02.5	02						
03	2 21.3 +02.5	3 20.5 +02.4	4 19.6 +02.5	5 18.7 +02.5	6 17.9 +02.4	7 17.0 +02.4	03						
04	17 23.8 +02.4	18 22.9 +02.5	19 22.1 +02.4	20 21.2 +02.5	21 20.3 +02.5	22 19.4 +02.5	04						
05	32 26.2 +02.5	33 25.4 +02.4	34 24.5 +02.5	35 23.7 +02.4	36 22.8 +02.5	37 22.0 +02.5	05						
06	47 28.7 +02.5	48 27.8 +02.5	49 27.0 +02.4	50 26.1 +02.5	51 25.3 +02.4	52 24.5 +02.4	06						
07	62 31.2 +02.4	63 30.3 +02.5	64 29.4 +02.5	65 28.6 +02.5	66 27.7 +02.5	67 26.9 +02.5	07						
08	77 33.6 +02.5	78 32.8 +02.4	79 31.9 +02.5	80 31.1 +02.4	81 30.2 +02.5	82 29.4 +02.5	08						
09	92 36.1 +02.5	93 35.2 +02.5	94 34.4 +02.4	95 33.5 +02.5	96 32.7 +02.4	97 31.9 +02.4	09						
10	107 38.6 +02.4	108 37.7 +02.5	109 36.8 +02.5	110 36.0 +02.4	111 35.1 +02.5	112 34.3 +02.5	10						
11	122 41.0 +02.5	123 40.2 +02.4	124 39.3 +02.5	125 38.4 +02.5	126 37.6 +02.4	127 36.8 +02.4	11						
12	137 43.5 +02.5	138 42.6 +02.5	139 41.8 +02.4	140 40.9 +02.5	141 40.0 +02.5	142 39.1 +02.5	12						
13	152 46.0 +02.4	153 45.1 +02.5	154 44.2 +02.5	155 43.4 +02.4	156 42.5 +02.5	157 41.6 +02.5	13						
14	167 48.4 +02.5	168 47.6 +02.4	169 46.7 +02.5	170 45.8 +02.5	171 45.0 +02.4	172 44.2 +02.4	14						
15	182 50.9 +02.4	183 50.0 +02.5	184 49.2 +02.4	185 48.3 +02.5	186 47.4 +02.5	187 46.5 +02.5	15						
16	197 53.3 +02.5	198 52.5 +02.4	199 51.6 +02.5	200 50.8 +02.4	201 49.9 +02.5	202 49.0 +02.5	16						
17	212 55.8 +02.5	213 54.9 +02.5	214 54.1 +02.5	215 53.2 +02.5	216 52.4 +02.4	217 51.5 +02.4	17						
18	227 58.3 +02.4	228 57.4 +02.5	229 56.6 +02.4	230 55.7 +02.5	231 54.8 +02.5	232 53.9 +02.5	18						
19	243 00.7 +02.5	243 59.9 +02.4	244 59.0 +02.5	245 58.2 +02.4	246 57.3 +02.5	247 56.4 +02.5	19						
20	258 03.2 +02.5	259 02.3 +02.5	260 01.5 +02.4	261 00.6 +02.5	262 59.8 +02.4	263 58.9 +02.4	20						
21	273 05.7 +02.4	274 04.8 +02.5	275 03.9 +02.5	276 03.1 +02.5	277 02.2 +02.5	278 01.3 +02.5	21						
22	288 08.1 +02.5	289 07.3 +02.4	290 06.4 +02.5	291 05.6 +02.4	292 04.7 +02.5	293 03.8 +02.5	22						
23	303 10.6 +02.5	304 09.7 +02.5	305 08.9 +02.4	306 08.0 +02.5	307 07.2 +02.4	308 06.3 +02.4	23						

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.8	N 29 13.2	Gienah	175 45.0	S 17 40.3
Ankaa	353 08.1	S 42 10.3	Acrux	173 01.8	S 63 13.9
Schedir	349 32.1	N 56 39.8	Gacrux	171 53.4	S 57 14.7
Diphda	348 48.4	S 17 51.3	Alioth	166 14.4	N 55 50.2
Achernar	335 20.9	S 57 06.7	Spica	158 23.7	S 11 17.0
Hamal	327 52.5	N 23 34.4	Alkaid	152 53.0	N 49 12.1
Polaris	314 38.4	N 89 21.5	Hadar	148 37.8	S 60 29.4
Acamar	315 12.6	S 40 12.3	Menkent	147 58.8	S 36 29.0
Menkar	314 07.4	N 04 11.0	Arcturus	145 48.6	N 19 04.6
Mirfak	308 30.0	N 49 56.5	Rigel Kentaurus	139 39.2	S 60 56.3
Aldebaran	290 41.1	N 16 33.5	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 23.9	N 46 01.3	Kocab	137 19.7	N 74 03.8
Rigel	281 05.2	S 08 10.3	Alphecca	126 04.7	N 26 38.4
Bellatrix	278 24.3	N 06 22.4	Antares	112 17.2	S 26 29.1
Elnath	278 03.6	N 28 37.7	Atria	107 12.1	S 69 04.4
Alnilam	275 39.1	S 01 11.1	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 53.6	N 07 24.8	Shaula	96 11.7	S 37 07.3
Canopus	263 53.4	S 52 42.2	Rasalhague	95 59.5	N 12 32.8
Sirius	258 27.4	S 16 44.2	Etamin	90 42.3	N 51 29.3
Adhara	255 07.1	S 29 00.0	Kaus Australis	83 33.7	S 34 22.4
Castor	245 58.8	N 31 50.3	Vega	80 33.8	N 38 48.4
Procyon	244 52.1	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.7	N 27 58.2	Albireo	67 04.7	N 28 00.6
Avior	234 15.9	S 59 35.0	Altair	62 01.0	N 08 55.8
Suhail	222 47.6	S 43 31.5	Peacock	53 07.0	S 56 39.5
Miaplacidus	221 39.3	S 69 48.8	Deneb	49 26.1	N 45 21.9
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.0
Regulus	207 35.9	N 11 51.3	Alnair	27 34.0	S 46 50.6
Dubhe	193 42.9	N 61 37.7	Formalhaut	15 15.6	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.8	N 15 19.9

# 2023 - First Point of Aries / Selected Stars

	day 226 of 365 <b>August 14</b>	day 227 of 365 <b>August 15</b>	day 228 of 365 <b>August 16</b>	day 229 of 365 <b>August 17</b>	day 230 of 365 <b>August 18</b>	
<b>UT</b>	GHA      ddGHA	<b>UT</b>				
<b>00</b>	322 09.6 +02.5	323 08.8 +02.4	324 07.9 +02.5	325 07.0 +02.5	326 06.2 +02.4	<b>00</b>
<b>01</b>	337 12.1 +02.4	338 11.2 +02.5	339 10.4 +02.4	340 09.5 +02.5	341 08.6 +02.5	<b>01</b>
<b>02</b>	352 14.5 +02.5	353 13.7 +02.5	354 12.8 +02.5	355 12.0 +02.4	356 11.1 +02.5	<b>02</b>
<b>03</b>	7 17.0 +02.5	8 16.2 +02.4	9 15.3 +02.5	10 14.4 +02.5	11 13.6 +02.4	<b>03</b>
<b>04</b>	22 19.5 +02.4	23 18.6 +02.5	24 17.8 +02.4	25 16.9 +02.5	26 16.0 +02.5	<b>04</b>
<b>05</b>	37 21.9 +02.5	38 21.1 +02.4	39 20.2 +02.5	40 19.4 +02.4	41 18.5 +02.5	<b>05</b>
<b>06</b>	52 24.4 +02.5	53 23.5 +02.5	54 22.7 +02.4	55 21.8 +02.5	56 21.0 +02.4	<b>06</b>
<b>07</b>	67 26.9 +02.4	68 26.0 +02.5	69 25.1 +02.5	70 24.3 +02.4	71 23.4 +02.5	<b>07</b>
<b>08</b>	82 29.3 +02.5	83 28.5 +02.4	84 27.6 +02.5	85 26.7 +02.5	86 25.9 +02.4	<b>08</b>
<b>09</b>	97 31.8 +02.5	98 30.9 +02.5	99 30.1 +02.4	100 29.2 +02.5	101 28.3 +02.5	<b>09</b>
<b>10</b>	112 34.3 +02.4	113 33.4 +02.5	114 32.5 +02.5	115 31.7 +02.4	116 30.8 +02.5	<b>10</b>
<b>11</b>	127 36.7 +02.5	128 35.9 +02.4	129 35.0 +02.5	130 34.1 +02.5	131 33.3 +02.4	<b>11</b>
<b>12</b>	142 39.2 +02.5	143 38.3 +02.5	144 37.5 +02.4	145 36.6 +02.5	146 35.7 +02.5	<b>12</b>
<b>13</b>	157 41.7 +02.4	158 40.8 +02.5	159 39.9 +02.5	160 39.1 +02.4	161 38.2 +02.5	<b>13</b>
<b>14</b>	172 44.1 +02.5	173 43.3 +02.4	174 42.4 +02.5	175 41.5 +02.5	176 40.7 +02.4	<b>14</b>
<b>15</b>	187 46.6 +02.4	188 45.7 +02.5	189 44.9 +02.4	190 44.0 +02.5	191 43.1 +02.5	<b>15</b>
<b>16</b>	202 49.0 +02.5	203 48.2 +02.4	204 47.3 +02.5	205 46.5 +02.4	206 45.6 +02.5	<b>16</b>
<b>17</b>	217 51.5 +02.5	218 50.6 +02.5	219 49.8 +02.5	220 48.9 +02.5	221 48.1 +02.4	<b>17</b>
<b>18</b>	232 54.0 +02.4	233 53.1 +02.5	234 52.3 +02.4	235 51.4 +02.5	236 50.5 +02.5	<b>18</b>
<b>19</b>	247 56.4 +02.5	248 55.6 +02.4	249 54.7 +02.5	250 53.9 +02.4	251 53.0 +02.5	<b>19</b>
<b>20</b>	262 58.9 +02.5	263 58.0 +02.5	264 57.2 +02.4	265 56.3 +02.5	266 55.5 +02.4	<b>20</b>
<b>21</b>	278 01.4 +02.4	279 00.5 +02.5	279 59.6 +02.5	280 58.8 +02.4	281 57.9 +02.5	<b>21</b>
<b>22</b>	293 03.8 +02.5	294 03.0 +02.4	295 02.1 +02.5	296 01.2 +02.5	297 00.4 +02.4	<b>22</b>
<b>23</b>	308 06.3 +02.5	309 05.4 +02.5	310 04.6 +02.4	311 03.7 +02.5	312 02.8 +02.5	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.8	N 29 13.3	Gienah	175 45.0	S 17 40.3
Ankaa	353 08.1	S 42 10.3	Acrux	173 01.9	S 63 13.9
Schedir	349 32.0	N 56 39.8	Gacrux	171 53.4	S 57 14.7
Diphda	348 48.3	S 17 51.3	Alioth	166 14.4	N 55 50.2
Achernar	335 20.8	S 57 06.7	Spica	158 23.7	S 11 17.0
Hamal	327 52.5	N 23 34.4	Alkaid	152 53.0	N 49 12.0
Polaris	314 35.5	N 89 21.5	Hadar	148 37.8	S 60 29.4
Acamar	315 12.6	S 40 12.3	Menkent	147 58.8	S 36 29.0
Menkar	314 07.3	N 04 11.0	Arcturus	145 48.7	N 19 04.6
Mirfak	308 29.9	N 49 56.5	Rigel Kentaurus	139 39.3	S 60 56.3
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Capella	280 23.9	N 46 01.3	Kocab	137 19.8	N 74 03.8
Rigel	281 05.1	S 08 10.3	Alphecca	126 04.7	N 26 38.4
Bellatrix	278 24.3	N 06 22.4	Antares	112 17.3	S 26 29.1
Elnath	278 03.5	N 28 37.7	Atria	107 12.2	S 69 04.4
Alnilam	275 39.1	S 01 11.1	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.6	N 07 24.8	Shaula	96 11.7	S 37 07.3
Canopus	263 53.3	S 52 42.2	Rasalhague	95 59.5	N 12 32.8
Sirius	258 27.3	S 16 44.2	Etamin	90 42.4	N 51 29.3
Adhara	255 07.1	S 29 00.0	Kaus Australis	83 33.7	S 34 22.4
Castor	245 58.8	N 31 50.3	Vega	80 33.8	N 38 48.4
Procyon	244 52.1	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.7	N 27 58.2	Albireo	67 04.7	N 28 00.7
Avior	234 15.8	S 59 34.9	Altair	62 01.0	N 08 55.8
Suhail	222 47.6	S 43 31.5	Peacock	53 07.0	S 56 39.5
Miaplacidus	221 39.3	S 69 48.8	Deneb	49 26.1	N 45 21.9
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.0
Regulus	207 35.9	N 11 51.3	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.6	Formalhaut	15 15.6	S 29 29.6
Denebola	182 26.2	N 14 26.6	Markab	13 30.8	N 15 20.0

# 2023 - First Point of Aries / Selected Stars

	day 231 of 365		day 232 of 365		day 233 of 365		day 234 of 365		day 235 of 365					
UT	August 19	GHA ° ,'	ddGHA	August 20	GHA ° ,'	ddGHA	August 21	GHA ° ,'	ddGHA	August 22	GHA ° ,'	ddGHA	August 23	UT
00	327 05.3	+02.5	328 04.4	+02.5	329 03.6	+02.4	330 02.7	+02.5	331 01.9	+02.4	332 01.1	+02.4	00	
01	342 07.8	+02.4	343 06.9	+02.5	344 06.0	+02.5	345 05.2	+02.4	346 04.3	+02.5	347 03.5	+02.5	01	
02	357 10.2	+02.5	358 09.4	+02.4	359 08.5	+02.5	360 07.6	+02.5	361 06.8	+02.5	362 06.0	+02.5	02	
03	12 12.7	+02.5	13 11.8	+02.5	14 11.0	+02.4	15 10.1	+02.5	16 09.3	+02.4	17 08.5	+02.4	03	
04	27 15.2	+02.4	28 14.3	+02.5	29 13.4	+02.5	30 12.6	+02.4	31 11.7	+02.5	32 10.9	+02.4	04	
05	42 17.6	+02.5	43 16.8	+02.4	44 15.9	+02.5	45 15.0	+02.5	46 14.2	+02.4	47 13.4	+02.4	05	
06	57 20.1	+02.5	58 19.2	+02.5	59 18.4	+02.4	60 17.5	+02.5	61 16.6	+02.5	62 15.8	+02.5	06	
07	72 22.6	+02.4	73 21.7	+02.5	74 20.8	+02.5	75 20.0	+02.4	76 19.1	+02.5	77 18.3	+02.5	07	
08	87 25.0	+02.5	88 24.2	+02.4	89 23.3	+02.5	90 22.4	+02.5	91 21.6	+02.4	92 20.8	+02.4	08	
09	102 27.5	+02.5	103 26.6	+02.5	104 25.8	+02.4	105 24.9	+02.5	106 24.0	+02.5	107 23.2	+02.5	09	
10	117 30.0	+02.4	118 29.1	+02.5	119 28.2	+02.5	120 27.4	+02.4	121 26.5	+02.5	122 25.7	+02.5	10	
11	132 32.4	+02.5	133 31.6	+02.4	134 30.7	+02.5	135 29.8	+02.5	136 29.0	+02.4	137 28.2	+02.4	11	
12	147 34.9	+02.4	148 34.0	+02.5	149 33.2	+02.4	150 32.3	+02.5	151 31.4	+02.5	152 30.6	+02.5	12	
13	162 37.3	+02.5	163 36.5	+02.4	164 35.6	+02.5	165 34.8	+02.4	166 33.9	+02.5	167 33.1	+02.5	13	
14	177 39.8	+02.5	178 38.9	+02.5	179 38.1	+02.4	180 37.2	+02.5	181 36.4	+02.4	182 35.6	+02.4	14	
15	192 42.3	+02.4	193 41.4	+02.5	194 40.5	+02.5	195 39.7	+02.4	196 38.8	+02.5	197 38.0	+02.5	15	
16	207 44.7	+02.5	208 43.9	+02.4	209 43.0	+02.5	210 42.1	+02.5	211 41.3	+02.4	212 40.5	+02.4	16	
17	222 47.2	+02.5	223 46.3	+02.5	224 45.5	+02.4	225 44.6	+02.5	226 43.7	+02.5	227 42.9	+02.5	17	
18	237 49.7	+02.4	238 48.8	+02.5	239 47.9	+02.5	240 47.1	+02.4	241 46.2	+02.5	242 45.4	+02.5	18	
19	252 52.1	+02.5	253 51.3	+02.4	254 50.4	+02.5	255 49.5	+02.5	256 48.7	+02.4	257 47.9	+02.4	19	
20	267 54.6	+02.5	268 53.7	+02.5	269 52.9	+02.4	270 52.0	+02.5	271 51.1	+02.5	272 50.3	+02.5	20	
21	282 57.1	+02.4	283 56.2	+02.5	284 55.3	+02.5	285 54.5	+02.4	286 53.6	+02.5	287 52.8	+02.5	21	
22	297 59.5	+02.5	298 58.7	+02.4	299 57.8	+02.5	300 56.9	+02.5	301 56.1	+02.4	302 55.3	+02.4	22	
23	313 02.0	+02.4	314 01.1	+02.5	315 00.3	+02.4	316 59.4	+02.5	317 58.5	+02.5	318 57.7	+02.5	23	

	SHA ° ,'	Dec		SHA ° ,'	Dec
Alpheratz	357 35.7	N 29 13.3	Gienah	175 45.0	S 17 40.3
Ankaa	353 08.1	S 42 10.3	Acrux	173 01.9	S 63 13.9
Schedir	349 32.0	N 56 39.9	Gacrux	171 53.4	S 57 14.7
Diphda	348 48.3	S 17 51.3	Alioth	166 14.4	N 55 50.2
Achernar	335 20.8	S 57 06.7	Spica	158 23.7	S 11 17.0
Hamal	327 52.4	N 23 34.5	Alkaid	152 53.1	N 49 12.0
Polaris	314 33.1	N 89 21.5	Hadar	148 37.9	S 60 29.4
Acamar	315 12.5	S 40 12.3	Menkent	147 58.8	S 36 28.9
Menkar	314 07.3	N 04 11.1	Arcturus	145 48.7	N 19 04.5
Mirfak	308 29.9	N 49 56.5	Rigel Kentaurus	139 39.3	S 60 56.3
Aldebaran	290 41.0	N 16 33.5	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 23.8	N 46 01.3	Kocab	137 19.9	N 74 03.8
Rigel	281 05.1	S 08 10.3	Alphecca	126 04.8	N 26 38.4
Bellatrix	278 24.2	N 06 22.4	Antares	112 17.3	S 26 29.1
Elnath	278 03.5	N 28 37.7	Atria	107 12.2	S 69 04.4
Alnilam	275 39.1	S 01 11.1	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.5	N 07 24.8	Shaula	96 11.7	S 37 07.3
Canopus	263 53.3	S 52 42.2	Rasalhague	95 59.5	N 12 32.8
Sirius	258 27.3	S 16 44.2	Etamin	90 42.4	N 51 29.4
Adhara	255 07.0	S 28 60.0	Kaus Australis	83 33.8	S 34 22.4
Castor	245 58.8	N 31 50.3	Vega	80 33.8	N 38 48.4
Procyon	244 52.1	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.7	N 27 58.2	Albireo	67 04.7	N 28 00.7
Avior	234 15.8	S 59 34.9	Altair	62 01.0	N 08 55.8
Suhail	222 47.6	S 43 31.5	Peacock	53 07.0	S 56 39.6
Miaplacidus	221 39.3	S 69 48.7	Deneb	49 26.2	N 45 21.9
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.9	N 11 51.3	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.6	Formalhaut	15 15.6	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.8	N 15 20.0

# 2023 - First Point of Aries / Selected Stars

	day 236 of 365 <b>August 24</b>	day 237 of 365 <b>August 25</b>	day 238 of 365 <b>August 26</b>	day 239 of 365 <b>August 27</b>	day 240 of 365 <b>August 28</b>	
<b>UT</b>	GHA      ddGHA	<b>UT</b>				
<b>00</b>	332 01.0 +02.5	333 00.1 +02.5	333 59.3 +02.4	334 58.4 +02.5	335 57.6 +02.4	<b>00</b>
<b>01</b>	347 03.5 +02.4	348 02.6 +02.5	349 01.7 +02.5	350 00.9 +02.4	351 00.0 +02.5	<b>01</b>
<b>02</b>	2 05.9 +02.5	3 05.1 +02.4	4 04.2 +02.5	5 03.3 +02.5	6 02.5 +02.5	<b>02</b>
<b>03</b>	17 08.4 +02.5	18 07.5 +02.5	19 06.7 +02.4	20 05.8 +02.5	21 05.0 +02.4	<b>03</b>
<b>04</b>	32 10.9 +02.4	33 10.0 +02.5	34 09.1 +02.5	35 08.3 +02.4	36 07.4 +02.5	<b>04</b>
<b>05</b>	47 13.3 +02.5	48 12.5 +02.4	49 11.6 +02.5	50 10.7 +02.5	51 09.9 +02.4	<b>05</b>
<b>06</b>	62 15.8 +02.4	63 14.9 +02.5	64 14.1 +02.4	65 13.2 +02.5	66 12.3 +02.5	<b>06</b>
<b>07</b>	77 18.2 +02.5	78 17.4 +02.5	79 16.5 +02.5	80 15.7 +02.4	81 14.8 +02.5	<b>07</b>
<b>08</b>	92 20.7 +02.5	93 19.9 +02.4	94 19.0 +02.5	95 18.1 +02.5	96 17.3 +02.4	<b>08</b>
<b>09</b>	107 23.2 +02.4	108 22.3 +02.5	109 21.5 +02.4	110 20.6 +02.5	111 19.7 +02.5	<b>09</b>
<b>10</b>	122 25.6 +02.5	123 24.8 +02.4	124 23.9 +02.5	125 23.1 +02.4	126 22.2 +02.5	<b>10</b>
<b>11</b>	137 28.1 +02.5	138 27.2 +02.5	139 26.4 +02.4	140 25.5 +02.5	141 24.7 +02.4	<b>11</b>
<b>12</b>	152 30.6 +02.4	153 29.7 +02.5	154 28.8 +02.5	155 28.0 +02.5	156 27.1 +02.5	<b>12</b>
<b>13</b>	167 33.0 +02.5	168 32.2 +02.4	169 31.3 +02.5	170 30.5 +02.4	171 29.6 +02.5	<b>13</b>
<b>14</b>	182 35.5 +02.5	183 34.6 +02.5	184 33.8 +02.4	185 32.9 +02.5	186 32.1 +02.4	<b>14</b>
<b>15</b>	197 38.0 +02.4	198 37.1 +02.5	199 36.2 +02.5	200 35.4 +02.4	201 34.5 +02.5	<b>15</b>
<b>16</b>	212 40.4 +02.5	213 39.6 +02.4	214 38.7 +02.5	215 37.8 +02.5	216 37.0 +02.5	<b>16</b>
<b>17</b>	227 42.9 +02.5	228 42.0 +02.5	229 41.2 +02.4	230 40.3 +02.5	231 39.5 +02.4	<b>17</b>
<b>18</b>	242 45.4 +02.4	243 44.5 +02.5	244 43.6 +02.5	245 42.8 +02.4	246 41.9 +02.5	<b>18</b>
<b>19</b>	257 47.8 +02.5	258 47.0 +02.4	259 46.1 +02.5	260 45.2 +02.5	261 44.4 +02.4	<b>19</b>
<b>20</b>	272 50.3 +02.4	273 49.4 +02.5	274 48.6 +02.4	275 47.7 +02.5	276 46.8 +02.5	<b>20</b>
<b>21</b>	287 52.7 +02.5	288 51.9 +02.4	289 51.0 +02.5	290 50.2 +02.4	291 49.3 +02.5	<b>21</b>
<b>22</b>	302 55.2 +02.5	303 54.3 +02.5	304 53.5 +02.5	305 52.6 +02.5	306 51.8 +02.4	<b>22</b>
<b>23</b>	317 57.7 +02.4	318 56.8 +02.5	319 56.0 +02.4	320 55.1 +02.5	321 54.2 +02.5	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.7	N 29 13.3	Gienah	175 45.0	S 17 40.3
Ankaa	353 08.0	S 42 10.3	Acrux	173 01.9	S 63 13.9
Schedir	349 32.0	N 56 39.9	Gacrux	171 53.4	S 57 14.7
Diphda	348 48.3	S 17 51.3	Alioth	166 14.5	N 55 50.2
Achernar	335 20.7	S 57 06.7	Spica	158 23.7	S 11 17.0
Hamal	327 52.4	N 23 34.5	Alkaid	152 53.1	N 49 12.0
Polaris	314 30.6	N 89 21.5	Hadar	148 37.9	S 60 29.4
Acamar	315 12.5	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.3	N 04 11.1	Arcturus	145 48.7	N 19 04.5
Mirfak	308 29.8	N 49 56.5	Rigel Kentaurus	139 39.4	S 60 56.3
Aldebaran	290 41.0	N 16 33.5	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 23.8	N 46 01.3	Kocab	137 20.0	N 74 03.8
Rigel	281 05.1	S 08 10.3	Alphecca	126 04.8	N 26 38.4
Bellatrix	278 24.2	N 06 22.4	Antares	112 17.3	S 26 29.1
Elnath	278 03.5	N 28 37.7	Atria	107 12.3	S 69 04.4
Alnilam	275 39.0	S 01 11.1	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.5	N 07 24.8	Shaula	96 11.7	S 37 07.3
Canopus	263 53.2	S 52 42.2	Rasalhague	95 59.5	N 12 32.8
Sirius	258 27.3	S 16 44.2	Etamin	90 42.4	N 51 29.4
Adhara	255 07.0	S 28 60.0	Kaus Australis	83 33.8	S 34 22.4
Castor	245 58.8	N 31 50.3	Vega	80 33.8	N 38 48.4
Procyon	244 52.1	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.7	N 27 58.2	Albireo	67 04.7	N 28 00.7
Avior	234 15.8	S 59 34.9	Altair	62 01.0	N 08 55.8
Suhail	222 47.6	S 43 31.5	Peacock	53 07.0	S 56 39.6
Miaplacidus	221 39.3	S 69 48.7	Deneb	49 26.2	N 45 22.0
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.9	N 11 51.3	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.6	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.0

# 2023 - First Point of Aries / Selected Stars

	day 241 of 365 <b>August 29</b>	day 242 of 365 <b>August 30</b>	day 243 of 365 <b>August 31</b>	day 244 of 365 <b>September 1</b>	day 245 of 365 <b>September 2</b>	
<b>UT</b>	GHA      ddGHA °    ,	GHA      ddGHA °    ,	GHA      ddGHA °    ,	GHA      ddGHA °    ,	GHA      ddGHA °    ,	<b>UT</b>
<b>00</b>	336 56.7 +02.5	337 55.8 +02.5	338 55.0 +02.4	339 54.1 +02.5	340 53.3 +02.4	<b>00</b>
<b>01</b>	351 59.2 +02.4	352 58.3 +02.5	353 57.4 +02.5	354 56.6 +02.4	355 55.7 +02.5	<b>01</b>
<b>02</b>	7 01.6 +02.5	8 00.8 +02.4	8 59.9 +02.5	9 59.0 +02.5	10 58.2 +02.4	<b>02</b>
<b>03</b>	22 04.1 +02.5	23 03.2 +02.5	24 02.4 +02.4	25 01.5 +02.5	26 00.6 +02.5	<b>03</b>
<b>04</b>	37 06.6 +02.4	38 05.7 +02.5	39 04.8 +02.5	40 04.0 +02.4	41 03.1 +02.5	<b>04</b>
<b>05</b>	52 09.0 +02.5	53 08.2 +02.4	54 07.3 +02.5	55 06.4 +02.5	56 05.6 +02.4	<b>05</b>
<b>06</b>	67 11.5 +02.4	68 10.6 +02.5	69 09.8 +02.4	70 08.9 +02.5	71 08.0 +02.5	<b>06</b>
<b>07</b>	82 13.9 +02.5	83 13.1 +02.5	84 12.2 +02.5	85 11.4 +02.4	86 10.5 +02.5	<b>07</b>
<b>08</b>	97 16.4 +02.5	98 15.6 +02.4	99 14.7 +02.5	100 13.8 +02.5	101 13.0 +02.4	<b>08</b>
<b>09</b>	112 18.9 +02.4	113 18.0 +02.5	114 17.2 +02.4	115 16.3 +02.5	116 15.4 +02.5	<b>09</b>
<b>10</b>	127 21.3 +02.5	128 20.5 +02.4	129 19.6 +02.5	130 18.8 +02.4	131 17.9 +02.5	<b>10</b>
<b>11</b>	142 23.8 +02.5	143 22.9 +02.5	144 22.1 +02.4	145 21.2 +02.5	146 20.4 +02.4	<b>11</b>
<b>12</b>	157 26.3 +02.4	158 25.4 +02.5	159 24.5 +02.5	160 23.7 +02.4	161 22.8 +02.5	<b>12</b>
<b>13</b>	172 28.7 +02.5	173 27.9 +02.4	174 27.0 +02.5	175 26.1 +02.5	176 25.3 +02.4	<b>13</b>
<b>14</b>	187 31.2 +02.5	188 30.3 +02.5	189 29.5 +02.4	190 28.6 +02.5	191 27.7 +02.5	<b>14</b>
<b>15</b>	202 33.7 +02.4	203 32.8 +02.5	204 31.9 +02.5	205 31.1 +02.4	206 30.2 +02.5	<b>15</b>
<b>16</b>	217 36.1 +02.5	218 35.3 +02.4	219 34.4 +02.5	220 33.5 +02.5	221 32.7 +02.4	<b>16</b>
<b>17</b>	232 38.6 +02.5	233 37.7 +02.5	234 36.9 +02.4	235 36.0 +02.5	236 35.1 +02.5	<b>17</b>
<b>18</b>	247 41.1 +02.4	248 40.2 +02.5	249 39.3 +02.5	250 38.5 +02.4	251 37.6 +02.5	<b>18</b>
<b>19</b>	262 43.5 +02.5	263 42.7 +02.4	264 41.8 +02.5	265 40.9 +02.5	266 40.1 +02.4	<b>19</b>
<b>20</b>	277 46.0 +02.4	278 45.1 +02.5	279 44.3 +02.4	280 43.4 +02.5	281 42.5 +02.5	<b>20</b>
<b>21</b>	292 48.4 +02.5	293 47.6 +02.4	294 46.7 +02.5	295 45.9 +02.4	296 45.0 +02.5	<b>21</b>
<b>22</b>	307 50.9 +02.5	308 50.0 +02.5	309 49.2 +02.5	310 48.3 +02.5	311 47.5 +02.4	<b>22</b>
<b>23</b>	322 53.4 +02.4	323 52.5 +02.5	324 51.7 +02.4	325 50.8 +02.5	326 49.9 +02.5	<b>23</b>

	SHA °    ,	Dec °    ,		SHA °    ,	Dec °    ,
Alpheratz	357 35.7	N 29 13.3	Gienah	175 45.0	S 17 40.3
Ankaa	353 08.0	S 42 10.3	Acrux	173 02.0	S 63 13.9
Schedir	349 31.9	N 56 39.9	Gacrux	171 53.5	S 57 14.7
Diphda	348 48.2	S 17 51.3	Alioth	166 14.5	N 55 50.2
Achernar	335 20.7	S 57 06.7	Spica	158 23.7	S 11 17.0
Hamal	327 52.4	N 23 34.5	Alkaid	152 53.1	N 49 12.0
Polaris	314 27.7	N 89 21.5	Hadar	148 38.0	S 60 29.3
Acamar	315 12.4	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.2	N 04 11.1	Arcturus	145 48.7	N 19 04.5
Mirfak	308 29.8	N 49 56.5	Rigel Kentaurus	139 39.4	S 60 56.3
Aldebaran	290 41.0	N 16 33.5	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 23.7	N 46 01.3	Kocab	137 20.1	N 74 03.8
Rigel	281 05.0	S 08 10.3	Alphecca	126 04.8	N 26 38.4
Bellatrix	278 24.2	N 06 22.4	Antares	112 17.3	S 26 29.1
Elnath	278 03.4	N 28 37.7	Atria	107 12.3	S 69 04.4
Alnilam	275 39.0	S 01 11.1	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.4	N 07 24.8	Shaula	96 11.8	S 37 07.3
Canopus	263 53.2	S 52 42.1	Rasalhague	95 59.5	N 12 32.8
Sirius	258 27.2	S 16 44.2	Etamin	90 42.5	N 51 29.4
Adhara	255 07.0	S 28 60.0	Kaus Australis	83 33.8	S 34 22.4
Castor	245 58.7	N 31 50.2	Vega	80 33.8	N 38 48.4
Procyon	244 52.0	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.6	N 27 58.2	Albireo	67 04.7	N 28 00.7
Avior	234 15.8	S 59 34.9	Altair	62 01.0	N 08 55.8
Suhail	222 47.6	S 43 31.5	Peacock	53 07.0	S 56 39.6
Miaplacidus	221 39.3	S 69 48.7	Deneb	49 26.2	N 45 22.0
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.9	N 11 51.3	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.6	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.0

# 2023 - First Point of Aries / Selected Stars

	day 246 of 365		day 247 of 365		day 248 of 365		day 249 of 365		day 250 of 365			
	<b>September 3</b>		<b>September 4</b>		<b>September 5</b>		<b>September 6</b>		<b>September 7</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	341	52.4	+02.5	342	51.5	+02.5	343	50.7	+02.4	344	49.8	+02.5
01	356	54.9	+02.4	357	54.0	+02.5	358	53.1	+02.5	359	52.3	+02.4
02	11	57.3	+02.5	12	56.5	+02.4	13	55.6	+02.5	14	54.7	+02.5
03	26	59.8	+02.4	27	58.9	+02.5	28	58.1	+02.4	29	57.2	+02.5
04	42	02.2	+02.5	43	01.4	+02.4	44	00.5	+02.5	44	59.7	+02.4
05	57	04.7	+02.5	58	03.8	+02.5	59	03.0	+02.4	60	02.1	+02.5
06	72	07.2	+02.4	73	06.3	+02.5	74	05.4	+02.5	75	04.6	+02.5
07	87	09.6	+02.5	88	08.8	+02.4	89	07.9	+02.5	90	07.1	+02.4
08	102	12.1	+02.5	103	11.2	+02.5	104	10.4	+02.4	105	09.5	+02.5
09	117	14.6	+02.4	118	13.7	+02.5	119	12.8	+02.5	120	12.0	+02.4
10	132	17.0	+02.5	133	16.2	+02.4	134	15.3	+02.5	135	14.4	+02.5
11	147	19.5	+02.5	148	18.6	+02.5	149	17.8	+02.4	150	16.9	+02.5
12	162	22.0	+02.4	163	21.1	+02.5	164	20.2	+02.5	165	19.4	+02.4
13	177	24.4	+02.5	178	23.6	+02.4	179	22.7	+02.5	180	21.8	+02.5
14	192	26.9	+02.4	193	26.0	+02.5	194	25.2	+02.4	195	24.3	+02.5
15	207	29.3	+02.5	208	28.5	+02.5	209	27.6	+02.5	210	26.8	+02.4
16	222	31.8	+02.5	223	31.0	+02.4	224	30.1	+02.5	225	29.2	+02.5
17	237	34.3	+02.4	238	33.4	+02.5	239	32.6	+02.4	240	31.7	+02.5
18	252	36.7	+02.5	253	35.9	+02.4	254	35.0	+02.5	255	34.2	+02.4
19	267	39.2	+02.5	268	38.3	+02.5	269	37.5	+02.4	270	36.6	+02.5
20	282	41.7	+02.4	283	40.8	+02.5	284	39.9	+02.5	285	39.1	+02.5
21	297	44.1	+02.5	298	43.3	+02.4	299	42.4	+02.5	300	41.6	+02.4
22	312	46.6	+02.5	313	45.7	+02.5	314	44.9	+02.4	315	44.0	+02.5
23	327	49.1	+02.4	328	48.2	+02.5	329	47.3	+02.5	330	46.5	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.7	N 29 13.3	Gienah	175 45.0	S 17 40.3
Ankaa	353 08.0	S 42 10.3	Acrux	173 02.0	S 63 13.8
Schedir	349 31.9	N 56 39.9	Gacrux	171 53.5	S 57 14.7
Diphda	348 48.2	S 17 51.3	Alioth	166 14.5	N 55 50.1
Achernar	335 20.6	S 57 06.7	Spica	158 23.7	S 11 17.0
Hamal	327 52.3	N 23 34.5	Alkaid	152 53.1	N 49 12.0
Polaris	314 25.6	N 89 21.5	Hadar	148 38.0	S 60 29.3
Acamar	315 12.4	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.2	N 04 11.1	Arcturus	145 48.7	N 19 04.5
Mirfak	308 29.7	N 49 56.5	Rigel Kentaurus	139 39.4	S 60 56.3
Aldebaran	290 40.9	N 16 33.5	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.7	N 46 01.3	Kocab	137 20.2	N 74 03.8
Rigel	281 05.0	S 08 10.3	Alphecca	126 04.8	N 26 38.4
Bellatrix	278 24.1	N 06 22.4	Antares	112 17.3	S 26 29.1
Elnath	278 03.4	N 28 37.7	Atria	107 12.4	S 69 04.4
Alnilam	275 39.0	S 01 11.0	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.4	N 07 24.8	Shaula	96 11.8	S 37 07.3
Canopus	263 53.1	S 52 42.1	Rasalhague	95 59.5	N 12 32.8
Sirius	258 27.2	S 16 44.2	Etamin	90 42.5	N 51 29.4
Adhara	255 06.9	S 28 59.9	Kaus Australis	83 33.8	S 34 22.4
Castor	245 58.7	N 31 50.2	Vega	80 33.9	N 38 48.4
Procyon	244 52.0	N 05 10.4	Nunki	75 48.9	S 26 16.0
Pollux	243 18.6	N 27 58.2	Albireo	67 04.7	N 28 00.7
Avior	234 15.7	S 59 34.8	Altair	62 01.0	N 08 55.8
Suhail	222 47.5	S 43 31.4	Peacock	53 07.0	S 56 39.6
Miplacidus	221 39.2	S 69 48.7	Deneb	49 26.2	N 45 22.0
Alphard	217 49.2	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.8	N 11 51.3	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.5	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.0

# 2023 - First Point of Aries / Selected Stars

	day 251 of 365		day 252 of 365		day 253 of 365		day 254 of 365		day 255 of 365			
	<b>September 8</b>		<b>September 9</b>		<b>September 10</b>		<b>September 11</b>		<b>September 12</b>			
<b>UT</b>	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	<b>UT</b>	
00	346	48.1	+02.4	347	47.2	+02.5	348	46.4	+02.4	349	45.5	+02.5
01	1	50.5	+02.5	2	49.7	+02.5	3	48.8	+02.5	4	48.0	+02.4
02	16	53.0	+02.5	17	52.2	+02.4	18	51.3	+02.5	19	50.4	+02.5
03	31	55.5	+02.4	32	54.6	+02.5	33	53.8	+02.4	34	52.9	+02.5
04	46	57.9	+02.5	47	57.1	+02.4	48	56.2	+02.5	49	55.4	+02.4
05	62	00.4	+02.5	62	59.5	+02.5	63	58.7	+02.4	64	57.8	+02.5
06	77	02.9	+02.4	78	02.0	+02.5	79	01.1	+02.5	80	00.3	+02.5
07	92	05.3	+02.5	93	04.5	+02.4	94	03.6	+02.5	95	02.8	+02.4
08	107	07.8	+02.5	108	06.9	+02.5	109	06.1	+02.4	110	05.2	+02.5
09	122	10.3	+02.4	123	09.4	+02.5	124	08.5	+02.5	125	07.7	+02.4
10	137	12.7	+02.5	138	11.9	+02.4	139	11.0	+02.5	140	10.1	+02.5
11	152	15.2	+02.5	153	14.3	+02.5	154	13.5	+02.4	155	12.6	+02.5
12	167	17.7	+02.4	168	16.8	+02.5	169	15.9	+02.5	170	15.1	+02.4
13	182	20.1	+02.5	183	19.3	+02.4	184	18.4	+02.5	185	17.5	+02.5
14	197	22.6	+02.4	198	21.7	+02.5	199	20.9	+02.4	200	20.0	+02.5
15	212	25.0	+02.5	213	24.2	+02.4	214	23.3	+02.5	215	22.5	+02.4
16	227	27.5	+02.5	228	26.6	+02.5	229	25.8	+02.5	230	24.9	+02.5
17	242	30.0	+02.4	243	29.1	+02.5	244	28.3	+02.4	245	27.4	+02.5
18	257	32.4	+02.5	258	31.6	+02.4	259	30.7	+02.5	260	29.9	+02.4
19	272	34.9	+02.5	273	34.0	+02.5	274	33.2	+02.4	275	32.3	+02.5
20	287	37.4	+02.4	288	36.5	+02.5	289	35.6	+02.5	290	34.8	+02.4
21	302	39.8	+02.5	303	39.0	+02.4	304	38.1	+02.5	305	37.2	+02.5
22	317	42.3	+02.5	318	41.4	+02.5	319	40.6	+02.4	320	39.7	+02.5
23	332	44.8	+02.4	333	43.9	+02.5	334	43.0	+02.5	335	42.2	+02.4

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.4	Gienah	175 45.0	S 17 40.3
Ankaa	353 07.9	S 42 10.4	Acrux	173 02.0	S 63 13.8
Schedir	349 31.9	N 56 40.0	Gacrux	171 53.5	S 57 14.6
Diphda	348 48.2	S 17 51.3	Alioth	166 14.5	N 55 50.1
Achernar	335 20.6	S 57 06.8	Spica	158 23.7	S 11 17.0
Hamal	327 52.3	N 23 34.5	Alkaid	152 53.2	N 49 12.0
Polaris	314 22.8	N 89 21.6	Hadar	148 38.0	S 60 29.3
Acamar	315 12.4	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.2	N 04 11.1	Arcturus	145 48.7	N 19 04.5
Mirfak	308 29.7	N 49 56.6	Rigel Kentaurus	139 39.5	S 60 56.3
Aldebaran	290 40.9	N 16 33.5	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.6	N 46 01.3	Kocab	137 20.3	N 74 03.7
Rigel	281 05.0	S 08 10.3	Alphecca	126 04.8	N 26 38.4
Bellatrix	278 24.1	N 06 22.4	Antares	112 17.4	S 26 29.1
Elnath	278 03.3	N 28 37.7	Atria	107 12.5	S 69 04.4
Alnilam	275 38.9	S 01 11.0	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 53.4	N 07 24.8	Shaula	96 11.8	S 37 07.3
Canopus	263 53.1	S 52 42.1	Rasalhague	95 59.6	N 12 32.8
Sirius	258 27.2	S 16 44.2	Etamin	90 42.6	N 51 29.4
Adhara	255 06.9	S 28 59.9	Kaus Australis	83 33.8	S 34 22.4
Castor	245 58.6	N 31 50.2	Vega	80 33.9	N 38 48.4
Procyon	244 52.0	N 05 10.4	Nunki	75 49.0	S 26 16.0
Pollux	243 18.5	N 27 58.2	Albireo	67 04.7	N 28 00.7
Avior	234 15.7	S 59 34.8	Altair	62 01.0	N 08 55.8
Suhail	222 47.5	S 43 31.4	Peacock	53 07.0	S 56 39.6
Miplacidus	221 39.2	S 69 48.6	Deneb	49 26.2	N 45 22.0
Alphard	217 49.1	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.8	N 11 51.3	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.5	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.0

# 2023 - First Point of Aries / Selected Stars

	day 256 of 365		day 257 of 365		day 258 of 365		day 259 of 365		day 260 of 365			
	<b>September 13</b>		<b>September 14</b>		<b>September 15</b>		<b>September 16</b>		<b>September 17</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	351	43.8	+02.4	352	42.9	+02.5	353	42.1	+02.4	354	41.2	+02.5
01	6	46.2	+02.5	7	45.4	+02.4	8	44.5	+02.5	9	43.7	+02.4
02	21	48.7	+02.5	22	47.8	+02.5	23	47.0	+02.4	24	46.1	+02.5
03	36	51.2	+02.4	37	50.3	+02.5	38	49.4	+02.5	39	48.6	+02.4
04	51	53.6	+02.5	52	52.8	+02.4	53	51.9	+02.5	54	51.0	+02.5
05	66	56.1	+02.5	67	55.2	+02.5	68	54.4	+02.4	69	53.5	+02.5
06	81	58.6	+02.4	82	57.7	+02.5	83	56.8	+02.5	84	56.0	+02.4
07	97	01.0	+02.5	98	00.2	+02.4	98	59.3	+02.5	99	58.4	+02.5
08	112	03.5	+02.5	113	02.6	+02.5	114	01.8	+02.4	115	00.9	+02.5
09	127	06.0	+02.4	128	05.1	+02.5	129	04.2	+02.5	130	03.4	+02.4
10	142	08.4	+02.5	143	07.6	+02.4	144	06.7	+02.5	145	05.8	+02.5
11	157	10.9	+02.4	158	10.0	+02.5	159	09.2	+02.4	160	08.3	+02.5
12	172	13.3	+02.5	173	12.5	+02.4	174	11.6	+02.5	175	10.8	+02.4
13	187	15.8	+02.5	188	14.9	+02.5	189	14.1	+02.4	190	13.2	+02.5
14	202	18.3	+02.4	203	17.4	+02.5	204	16.5	+02.5	205	15.7	+02.4
15	217	20.7	+02.5	218	19.9	+02.4	219	19.0	+02.5	220	18.1	+02.5
16	232	23.2	+02.5	233	22.3	+02.5	234	21.5	+02.4	235	20.6	+02.5
17	247	25.7	+02.4	248	24.8	+02.5	249	23.9	+02.5	250	23.1	+02.4
18	262	28.1	+02.5	263	27.3	+02.4	264	26.4	+02.5	265	25.5	+02.5
19	277	30.6	+02.5	278	29.7	+02.5	279	28.9	+02.4	280	28.0	+02.5
20	292	33.1	+02.4	293	32.2	+02.5	294	31.3	+02.5	295	30.5	+02.4
21	307	35.5	+02.5	308	34.7	+02.4	309	33.8	+02.5	310	32.9	+02.5
22	322	38.0	+02.5	323	37.1	+02.5	324	36.3	+02.4	325	35.4	+02.5
23	337	40.5	+02.4	338	39.6	+02.5	339	38.7	+02.5	340	37.9	+02.5

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.4	Gienah	175 45.0	S 17 40.3
Ankaa	353 07.9	S 42 10.4	Acrux	173 02.0	S 63 13.8
Schedir	349 31.8	N 56 40.0	Gacrux	171 53.5	S 57 14.6
Diphda	348 48.2	S 17 51.3	Alioth	166 14.5	N 55 50.1
Achernar	335 20.6	S 57 06.8	Spica	158 23.7	S 11 17.0
Hamal	327 52.3	N 23 34.5	Alkaid	152 53.2	N 49 12.0
Polaris	314 20.6	N 89 21.6	Hadar	148 38.1	S 60 29.3
Acamar	315 12.3	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.1	N 04 11.1	Arcturus	145 48.8	N 19 04.5
Mirfak	308 29.6	N 49 56.6	Rigel Kentaurus	139 39.5	S 60 56.3
Aldebaran	290 40.8	N 16 33.5	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.6	N 46 01.3	Kocab	137 20.4	N 74 03.7
Rigel	281 04.9	S 08 10.2	Alphecca	126 04.9	N 26 38.4
Bellatrix	278 24.1	N 06 22.4	Antares	112 17.4	S 26 29.1
Elnath	278 03.3	N 28 37.7	Atria	107 12.5	S 69 04.4
Alnilam	275 38.9	S 01 11.0	Sabik	102 04.1	S 15 45.3
Betelgeuze	270 53.3	N 07 24.8	Shaula	96 11.8	S 37 07.3
Canopus	263 53.0	S 52 42.1	Rasalhague	95 59.6	N 12 32.8
Sirius	258 27.1	S 16 44.2	Etamin	90 42.6	N 51 29.4
Adhara	255 06.9	S 28 59.9	Kaus Australis	83 33.8	S 34 22.4
Castor	245 58.6	N 31 50.2	Vega	80 33.9	N 38 48.4
Procyon	244 51.9	N 05 10.4	Nunki	75 49.0	S 26 16.0
Pollux	243 18.5	N 27 58.2	Albireo	67 04.8	N 28 00.7
Avior	234 15.6	S 59 34.8	Altair	62 01.0	N 08 55.8
Suhail	222 47.5	S 43 31.4	Peacock	53 07.0	S 56 39.6
Miaplacidus	221 39.2	S 69 48.6	Deneb	49 26.2	N 45 22.0
Alphard	217 49.1	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.8	N 11 51.2	Alnair	27 33.9	S 46 50.7
Dubhe	193 42.9	N 61 37.5	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 261 of 365		day 262 of 365		day 263 of 365		day 264 of 365		day 265 of 365			
	<b>September 18</b>		<b>September 19</b>		<b>September 20</b>		<b>September 21</b>		<b>September 22</b>			
<b>UT</b>	GHA	ddGHA	<b>UT</b>									
00	356	39.5	+02.4	357	38.6	+02.5	358	37.7	+02.5	359	36.9	+02.4
01	11	41.9	+02.5	12	41.1	+02.4	13	40.2	+02.5	14	39.3	+02.5
02	26	44.4	+02.5	27	43.5	+02.5	28	42.7	+02.4	29	41.8	+02.5
03	41	46.9	+02.4	42	46.0	+02.5	43	45.1	+02.5	44	44.3	+02.4
04	56	49.3	+02.5	57	48.5	+02.4	58	47.6	+02.5	59	46.7	+02.5
05	71	51.8	+02.4	72	50.9	+02.5	73	50.1	+02.4	74	49.2	+02.5
06	86	54.2	+02.5	87	53.4	+02.4	88	52.5	+02.5	89	51.7	+02.4
07	101	56.7	+02.5	102	55.8	+02.5	103	55.0	+02.5	104	54.1	+02.5
08	116	59.2	+02.4	117	58.3	+02.5	118	57.5	+02.4	119	56.6	+02.5
09	132	01.6	+02.5	133	00.8	+02.4	133	59.9	+02.5	134	59.1	+02.4
10	147	04.1	+02.5	148	03.2	+02.5	149	02.4	+02.4	150	01.5	+02.5
11	162	06.6	+02.4	163	05.7	+02.5	164	04.8	+02.5	165	04.0	+02.4
12	177	09.0	+02.5	178	08.2	+02.4	179	07.3	+02.5	180	06.4	+02.5
13	192	11.5	+02.5	193	10.6	+02.5	194	09.8	+02.4	195	08.9	+02.5
14	207	14.0	+02.4	208	13.1	+02.5	209	12.2	+02.5	210	11.4	+02.4
15	222	16.4	+02.5	223	15.6	+02.4	224	14.7	+02.5	225	13.8	+02.5
16	237	18.9	+02.5	238	18.0	+02.5	239	17.2	+02.4	240	16.3	+02.5
17	252	21.4	+02.4	253	20.5	+02.5	254	19.6	+02.5	255	18.8	+02.4
18	267	23.8	+02.5	268	23.0	+02.4	269	22.1	+02.5	270	21.2	+02.5
19	282	26.3	+02.4	283	25.4	+02.5	284	24.6	+02.4	285	23.7	+02.5
20	297	28.7	+02.5	298	27.9	+02.4	299	27.0	+02.5	300	26.2	+02.4
21	312	31.2	+02.5	313	30.3	+02.5	314	29.5	+02.4	315	28.6	+02.5
22	327	33.7	+02.4	328	32.8	+02.5	329	31.9	+02.5	330	31.1	+02.5
23	342	36.1	+02.5	343	35.3	+02.4	344	34.4	+02.5	345	33.6	+02.4

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.4	Gienah	175 45.0	S 17 40.3
Ankaa	353 07.9	S 42 10.4	Acrux	173 02.0	S 63 13.8
Schedir	349 31.8	N 56 40.0	Gacrux	171 53.5	S 57 14.6
Diphda	348 48.2	S 17 51.3	Alioth	166 14.5	N 55 50.1
Achernar	335 20.5	S 57 06.8	Spica	158 23.7	S 11 17.0
Hamal	327 52.2	N 23 34.5	Alkaid	152 53.2	N 49 11.9
Polaris	314 18.5	N 89 21.6	Hadar	148 38.1	S 60 29.3
Acamar	315 12.3	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.1	N 04 11.1	Arcturus	145 48.8	N 19 04.5
Mirfak	308 29.6	N 49 56.6	Rigel Kentaurus	139 39.6	S 60 56.3
Aldebaran	290 40.8	N 16 33.5	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.5	N 46 01.3	Kocab	137 20.4	N 74 03.7
Rigel	281 04.9	S 08 10.2	Alphecca	126 04.9	N 26 38.4
Bellatrix	278 24.0	N 06 22.4	Antares	112 17.4	S 26 29.1
Elnath	278 03.3	N 28 37.7	Atria	107 12.6	S 69 04.4
Alnilam	275 38.8	S 01 11.0	Sabik	102 04.1	S 15 45.3
Betelgeuze	270 53.3	N 07 24.8	Shaula	96 11.9	S 37 07.3
Canopus	263 53.0	S 52 42.1	Rasalhague	95 59.6	N 12 32.8
Sirius	258 27.1	S 16 44.2	Etamin	90 42.6	N 51 29.4
Adhara	255 06.8	S 28 59.9	Kaus Australis	83 33.9	S 34 22.4
Castor	245 58.6	N 31 50.2	Vega	80 34.0	N 38 48.4
Procyon	244 51.9	N 05 10.4	Nunki	75 49.0	S 26 16.1
Pollux	243 18.5	N 27 58.2	Albireo	67 04.8	N 28 00.7
Avior	234 15.6	S 59 34.8	Altair	62 01.0	N 08 55.8
Suhail	222 47.5	S 43 31.4	Peacock	53 07.1	S 56 39.6
Miplacidus	221 39.1	S 69 48.6	Deneb	49 26.3	N 45 22.1
Alphard	217 49.1	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.8	N 11 51.2	Alnair	27 33.9	S 46 50.8
Dubhe	193 42.8	N 61 37.5	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 266 of 365		day 267 of 365		day 268 of 365		day 269 of 365		day 270 of 365		
	<b>September 23</b>		<b>September 24</b>		<b>September 25</b>		<b>September 26</b>		<b>September 27</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	1 35.2	+02.4	2 34.3	+02.5	3 33.4	+02.5	4 32.6	+02.4	5 31.7	+02.5	00
01	16 37.6	+02.5	17 36.8	+02.4	18 35.9	+02.5	19 35.0	+02.5	20 34.2	+02.4	01
02	31 40.1	+02.4	32 39.2	+02.5	33 38.4	+02.4	34 37.5	+02.5	35 36.6	+02.5	02
03	46 42.5	+02.5	47 41.7	+02.5	48 40.8	+02.5	49 40.0	+02.4	50 39.1	+02.5	03
04	61 45.0	+02.5	62 44.2	+02.4	63 43.3	+02.5	64 42.4	+02.5	65 41.6	+02.4	04
05	76 47.5	+02.4	77 46.6	+02.5	78 45.8	+02.4	79 44.9	+02.5	80 44.0	+02.5	05
06	91 49.9	+02.5	92 49.1	+02.4	93 48.2	+02.5	94 47.4	+02.4	95 46.5	+02.5	06
07	106 52.4	+02.5	107 51.5	+02.5	108 50.7	+02.5	109 49.8	+02.5	110 49.0	+02.4	07
08	121 54.9	+02.4	122 54.0	+02.5	123 53.2	+02.4	124 52.3	+02.5	125 51.4	+02.5	08
09	136 57.3	+02.5	137 56.5	+02.4	138 55.6	+02.5	139 54.8	+02.4	140 53.9	+02.5	09
10	151 59.8	+02.5	152 58.9	+02.5	153 58.1	+02.4	154 57.2	+02.5	155 56.4	+02.4	10
11	167 02.3	+02.4	168 01.4	+02.5	169 00.5	+02.5	169 59.7	+02.4	170 58.8	+02.5	11
12	182 04.7	+02.5	183 03.9	+02.4	184 03.0	+02.5	185 02.1	+02.5	186 01.3	+02.4	12
13	197 07.2	+02.5	198 06.3	+02.5	199 05.5	+02.4	200 04.6	+02.5	201 03.7	+02.5	13
14	212 09.7	+02.4	213 08.8	+02.5	214 07.9	+02.5	215 07.1	+02.4	216 06.2	+02.5	14
15	227 12.1	+02.5	228 11.3	+02.4	229 10.4	+02.5	230 09.5	+02.5	231 08.7	+02.4	15
16	242 14.6	+02.4	243 13.7	+02.5	244 12.9	+02.4	245 12.0	+02.5	246 11.1	+02.5	16
17	257 17.0	+02.5	258 16.2	+02.5	259 15.3	+02.5	260 14.5	+02.4	261 13.6	+02.5	17
18	272 19.5	+02.5	273 18.7	+02.4	274 17.8	+02.5	275 16.9	+02.5	276 16.1	+02.4	18
19	287 22.0	+02.4	288 21.1	+02.5	289 20.3	+02.4	290 19.4	+02.5	291 18.5	+02.5	19
20	302 24.4	+02.5	303 23.6	+02.4	304 22.7	+02.5	305 21.9	+02.4	306 21.0	+02.5	20
21	317 26.9	+02.5	318 26.0	+02.5	319 25.2	+02.4	320 24.3	+02.5	321 23.5	+02.4	21
22	332 29.4	+02.4	333 28.5	+02.5	334 27.6	+02.5	335 26.8	+02.5	336 25.9	+02.5	22
23	347 31.8	+02.5	348 31.0	+02.4	349 30.1	+02.5	350 29.3	+02.4	351 28.4	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.4	Gienah	175 45.0	S 17 40.3
Ankaa	353 07.9	S 42 10.4	Acrux	173 02.0	S 63 13.8
Schedir	349 31.8	N 56 40.0	Gacrux	171 53.5	S 57 14.6
Diphda	348 48.1	S 17 51.3	Alioth	166 14.5	N 55 50.0
Achernar	335 20.5	S 57 06.8	Spica	158 23.7	S 11 17.0
Hamal	327 52.2	N 23 34.6	Alkaid	152 53.2	N 49 11.9
Polaris	314 16.1	N 89 21.6	Hadar	148 38.1	S 60 29.3
Acamar	315 12.3	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.1	N 04 11.1	Arcturus	145 48.8	N 19 04.5
Mirfak	308 29.5	N 49 56.6	Rigel Kentaurus	139 39.6	S 60 56.3
Aldebaran	290 40.8	N 16 33.5	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.5	N 46 01.3	Kocab	137 20.5	N 74 03.7
Rigel	281 04.9	S 08 10.2	Alphecca	126 04.9	N 26 38.3
Bellatrix	278 24.0	N 06 22.4	Antares	112 17.4	S 26 29.1
Elnath	278 03.2	N 28 37.7	Atria	107 12.7	S 69 04.4
Alnilam	275 38.8	S 01 11.0	Sabik	102 04.1	S 15 45.3
Betelgeuze	270 53.3	N 07 24.8	Shaula	96 11.9	S 37 07.3
Canopus	263 52.9	S 52 42.1	Rasalhague	95 59.6	N 12 32.8
Sirius	258 27.1	S 16 44.2	Etamin	90 42.7	N 51 29.4
Adhara	255 06.8	S 28 59.9	Kaus Australis	83 33.9	S 34 22.4
Castor	245 58.5	N 31 50.2	Vega	80 34.0	N 38 48.5
Procyon	244 51.9	N 05 10.4	Nunki	75 49.0	S 26 16.1
Pollux	243 18.4	N 27 58.2	Albireo	67 04.8	N 28 00.8
Avior	234 15.6	S 59 34.8	Altair	62 01.1	N 08 55.8
Suhail	222 47.4	S 43 31.4	Peacock	53 07.1	S 56 39.7
Miaplacidus	221 39.0	S 69 48.6	Deneb	49 26.3	N 45 22.1
Alphard	217 49.1	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.8	N 11 51.2	Alnair	27 33.9	S 46 50.8
Dubhe	193 42.8	N 61 37.4	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 271 of 365		day 272 of 365		day 273 of 365		day 274 of 365		day 275 of 365		
	<b>September 28</b>		<b>September 29</b>		<b>September 30</b>		<b>October 1</b>		<b>October 2</b>		
<b>UT</b>	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	<b>UT</b>
00	6 30.9	+02.4	7 30.0	+02.5	8 29.1	+02.5	9 28.3	+02.4	10 27.4	+02.5	00
01	21 33.3	+02.5	22 32.5	+02.4	23 31.6	+02.5	24 30.7	+02.5	25 29.9	+02.4	01
02	36 35.8	+02.4	37 34.9	+02.5	38 34.1	+02.4	39 33.2	+02.5	40 32.3	+02.5	02
03	51 38.2	+02.5	52 37.4	+02.4	53 36.5	+02.5	54 35.7	+02.4	55 34.8	+02.5	03
04	66 40.7	+02.5	67 39.8	+02.5	68 39.0	+02.4	69 38.1	+02.5	70 37.3	+02.4	04
05	81 43.2	+02.4	82 42.3	+02.5	83 41.4	+02.5	84 40.6	+02.4	85 39.7	+02.5	05
06	96 45.6	+02.5	97 44.8	+02.4	98 43.9	+02.5	99 43.0	+02.5	100 42.2	+02.4	06
07	111 48.1	+02.5	112 47.2	+02.5	113 46.4	+02.4	114 45.5	+02.5	115 44.6	+02.5	07
08	126 50.6	+02.4	127 49.7	+02.5	128 48.8	+02.5	129 48.0	+02.4	130 47.1	+02.5	08
09	141 53.0	+02.5	142 52.2	+02.4	143 51.3	+02.5	144 50.4	+02.5	145 49.6	+02.4	09
10	156 55.5	+02.5	157 54.6	+02.5	158 53.8	+02.4	159 52.9	+02.5	160 52.0	+02.5	10
11	171 58.0	+02.4	172 57.1	+02.5	173 56.2	+02.5	174 55.4	+02.4	175 54.5	+02.5	11
12	187 00.4	+02.5	187 59.6	+02.4	188 58.7	+02.5	189 57.8	+02.5	190 57.0	+02.4	12
13	202 02.9	+02.4	203 02.0	+02.5	204 01.2	+02.4	205 00.3	+02.5	205 59.4	+02.5	13
14	217 05.3	+02.5	218 04.5	+02.4	219 03.6	+02.5	220 02.8	+02.4	221 01.9	+02.5	14
15	232 07.8	+02.5	233 06.9	+02.5	234 06.1	+02.5	235 05.2	+02.5	236 04.4	+02.4	15
16	247 10.3	+02.4	248 09.4	+02.5	249 08.6	+02.4	250 07.7	+02.5	251 06.8	+02.5	16
17	262 12.7	+02.5	263 11.9	+02.4	264 11.0	+02.5	265 10.2	+02.4	266 09.3	+02.5	17
18	277 15.2	+02.5	278 14.3	+02.5	279 13.5	+02.4	280 12.6	+02.5	281 11.8	+02.4	18
19	292 17.7	+02.4	293 16.8	+02.5	294 15.9	+02.5	295 15.1	+02.4	296 14.2	+02.5	19
20	307 20.1	+02.5	308 19.3	+02.4	309 18.4	+02.5	310 17.5	+02.5	311 16.7	+02.4	20
21	322 22.6	+02.5	323 21.7	+02.5	324 20.9	+02.4	325 20.0	+02.5	326 19.1	+02.5	21
22	337 25.1	+02.4	338 24.2	+02.5	339 23.3	+02.5	340 22.5	+02.4	341 21.6	+02.5	22
23	352 27.5	+02.5	353 26.7	+02.4	354 25.8	+02.5	355 24.9	+02.5	356 24.1	+02.4	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.4	Gienah	175 45.0	S 17 40.3
Ankaa	353 07.9	S 42 10.4	Acrux	173 02.0	S 63 13.7
Schedir	349 31.8	N 56 40.1	Gacrux	171 53.5	S 57 14.6
Diphda	348 48.1	S 17 51.3	Alioth	166 14.5	N 55 50.0
Achernar	335 20.5	S 57 06.8	Spica	158 23.7	S 11 17.0
Hamal	327 52.2	N 23 34.6	Alkaid	152 53.2	N 49 11.9
Polaris	314 14.2	N 89 21.6	Hadar	148 38.1	S 60 29.3
Acamar	315 12.2	S 40 12.3	Menkent	147 58.9	S 36 28.9
Menkar	314 07.0	N 04 11.1	Arcturus	145 48.8	N 19 04.5
Mirfak	308 29.5	N 49 56.6	Rigel Kentaurus	139 39.6	S 60 56.2
Aldebaran	290 40.7	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.4	N 46 01.4	Kocab	137 20.6	N 74 03.7
Rigel	281 04.8	S 08 10.2	Alphecca	126 04.9	N 26 38.3
Bellatrix	278 23.9	N 06 22.4	Antares	112 17.4	S 26 29.1
Elnath	278 03.2	N 28 37.7	Atria	107 12.7	S 69 04.4
Alnilam	275 38.8	S 01 11.0	Sabik	102 04.1	S 15 45.3
Betelgeuze	270 53.2	N 07 24.8	Shaula	96 11.9	S 37 07.3
Canopus	263 52.9	S 52 42.1	Rasalhague	95 59.6	N 12 32.8
Sirius	258 27.0	S 16 44.2	Etamin	90 42.7	N 51 29.4
Adhara	255 06.8	S 28 59.9	Kaus Australis	83 33.9	S 34 22.4
Castor	245 58.5	N 31 50.2	Vega	80 34.0	N 38 48.5
Procyon	244 51.8	N 05 10.4	Nunki	75 49.0	S 26 16.1
Pollux	243 18.4	N 27 58.2	Albireo	67 04.8	N 28 00.8
Avior	234 15.5	S 59 34.8	Altair	62 01.1	N 08 55.8
Suhail	222 47.4	S 43 31.4	Peacock	53 07.1	S 56 39.7
Miaplacidus	221 39.0	S 69 48.6	Deneb	49 26.3	N 45 22.1
Alphard	217 49.0	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.7	N 11 51.2	Alnair	27 33.9	S 46 50.8
Dubhe	193 42.8	N 61 37.4	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 276 of 365 <b>October 3</b>	day 277 of 365 <b>October 4</b>	day 278 of 365 <b>October 5</b>	day 279 of 365 <b>October 6</b>	day 280 of 365 <b>October 7</b>	
<b>UT</b>	GHA      ddGHA	<b>UT</b>				
<b>00</b>	11 26.5 +02.5	12 25.7 +02.4	13 24.8 +02.5	14 24.0 +02.4	15 23.1 +02.5	<b>00</b>
<b>01</b>	26 29.0 +02.5	27 28.1 +02.5	28 27.3 +02.4	29 26.4 +02.5	30 25.6 +02.4	<b>01</b>
<b>02</b>	41 31.5 +02.4	42 30.6 +02.5	43 29.7 +02.5	44 28.9 +02.5	45 28.0 +02.5	<b>02</b>
<b>03</b>	56 33.9 +02.5	57 33.1 +02.4	58 32.2 +02.5	59 31.4 +02.4	60 30.5 +02.5	<b>03</b>
<b>04</b>	71 36.4 +02.5	72 35.5 +02.5	73 34.7 +02.4	74 33.8 +02.5	75 33.0 +02.4	<b>04</b>
<b>05</b>	86 38.9 +02.4	87 38.0 +02.5	88 37.1 +02.5	89 36.3 +02.4	90 35.4 +02.5	<b>05</b>
<b>06</b>	101 41.3 +02.5	102 40.5 +02.4	103 39.6 +02.5	104 38.7 +02.5	105 37.9 +02.4	<b>06</b>
<b>07</b>	116 43.8 +02.5	117 42.9 +02.5	118 42.1 +02.4	119 41.2 +02.5	120 40.3 +02.5	<b>07</b>
<b>08</b>	131 46.3 +02.4	132 45.4 +02.5	133 44.5 +02.5	134 43.7 +02.4	135 42.8 +02.5	<b>08</b>
<b>09</b>	146 48.7 +02.5	147 47.9 +02.4	148 47.0 +02.5	149 46.1 +02.5	150 45.3 +02.4	<b>09</b>
<b>10</b>	161 51.2 +02.4	162 50.3 +02.5	163 49.5 +02.4	164 48.6 +02.5	165 47.7 +02.5	<b>10</b>
<b>11</b>	176 53.6 +02.5	177 52.8 +02.4	178 51.9 +02.5	179 51.1 +02.4	180 50.2 +02.5	<b>11</b>
<b>12</b>	191 56.1 +02.5	192 55.2 +02.5	193 54.4 +02.5	194 53.5 +02.5	195 52.7 +02.4	<b>12</b>
<b>13</b>	206 58.6 +02.4	207 57.7 +02.5	208 56.9 +02.4	209 56.0 +02.5	210 55.1 +02.5	<b>13</b>
<b>14</b>	222 01.0 +02.5	223 00.2 +02.4	223 59.3 +02.5	224 58.5 +02.4	225 57.6 +02.5	<b>14</b>
<b>15</b>	237 03.5 +02.5	238 02.6 +02.5	239 01.8 +02.4	240 00.9 +02.5	241 00.1 +02.4	<b>15</b>
<b>16</b>	252 06.0 +02.4	253 05.1 +02.5	254 04.2 +02.5	255 03.4 +02.4	256 02.5 +02.5	<b>16</b>
<b>17</b>	267 08.4 +02.5	268 07.6 +02.4	269 06.7 +02.5	270 05.8 +02.5	271 05.0 +02.5	<b>17</b>
<b>18</b>	282 10.9 +02.5	283 10.0 +02.5	284 09.2 +02.4	285 08.3 +02.5	286 07.5 +02.4	<b>18</b>
<b>19</b>	297 13.4 +02.4	298 12.5 +02.5	299 11.6 +02.5	300 10.8 +02.4	301 09.9 +02.5	<b>19</b>
<b>20</b>	312 15.8 +02.5	313 15.0 +02.4	314 14.1 +02.5	315 13.2 +02.5	316 12.4 +02.4	<b>20</b>
<b>21</b>	327 18.3 +02.5	328 17.4 +02.5	329 16.6 +02.4	330 15.7 +02.5	331 14.8 +02.5	<b>21</b>
<b>22</b>	342 20.8 +02.4	343 19.9 +02.5	344 19.0 +02.5	345 18.2 +02.4	346 17.3 +02.5	<b>22</b>
<b>23</b>	357 23.2 +02.5	358 22.4 +02.4	359 21.5 +02.5	0 20.6 +02.5	1 19.8 +02.4	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.4	Gienah	175 45.0	S 17 40.2
Ankaa	353 07.9	S 42 10.4	Acrux	173 02.0	S 63 13.7
Schedir	349 31.8	N 56 40.1	Gacrux	171 53.5	S 57 14.5
Diphda	348 48.1	S 17 51.3	Alioth	166 14.5	N 55 50.0
Achernar	335 20.5	S 57 06.8	Spica	158 23.7	S 11 16.9
Hamal	327 52.2	N 23 34.6	Alkaid	152 53.2	N 49 11.9
Polaris	314 12.3	N 89 21.7	Hadar	148 38.1	S 60 29.2
Acamar	315 12.2	S 40 12.4	Menkent	147 59.0	S 36 28.9
Menkar	314 07.0	N 04 11.1	Arcturus	145 48.8	N 19 04.5
Mirfak	308 29.4	N 49 56.6	Rigel Kentaurus	139 39.6	S 60 56.2
Aldebaran	290 40.7	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.4	N 46 01.4	Kocab	137 20.7	N 74 03.6
Rigel	281 04.8	S 08 10.2	Alphecca	126 04.9	N 26 38.3
Bellatrix	278 23.9	N 06 22.4	Antares	112 17.5	S 26 29.1
Elnath	278 03.1	N 28 37.7	Atria	107 12.8	S 69 04.4
Alnilam	275 38.7	S 01 11.0	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.2	N 07 24.8	Shaula	96 11.9	S 37 07.3
Canopus	263 52.8	S 52 42.1	Rasalhague	95 59.7	N 12 32.8
Sirius	258 27.0	S 16 44.2	Etamin	90 42.8	N 51 29.4
Adhara	255 06.7	S 28 59.9	Kaus Australis	83 33.9	S 34 22.4
Castor	245 58.4	N 31 50.2	Vega	80 34.1	N 38 48.5
Procyon	244 51.8	N 05 10.4	Nunki	75 49.1	S 26 16.1
Pollux	243 18.4	N 27 58.2	Albireo	67 04.9	N 28 00.8
Avior	234 15.5	S 59 34.7	Altair	62 01.1	N 08 55.8
Suhail	222 47.4	S 43 31.4	Peacock	53 07.1	S 56 39.7
Miaplacidus	221 38.9	S 69 48.5	Deneb	49 26.3	N 45 22.1
Alphard	217 49.0	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.7	N 11 51.2	Alnair	27 33.9	S 46 50.8
Dubhe	193 42.8	N 61 37.4	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.1

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	day 281 of 365 <b>October 8</b>	day 282 of 365 <b>October 9</b>	day 283 of 365 <b>October 10</b>	day 284 of 365 <b>October 11</b>	day 285 of 365 <b>October 12</b>	
<b>UT</b>	GHA      ddGHA °    ,    '	GHA      ddGHA °    ,    '	GHA      ddGHA °    ,    '	GHA      ddGHA °    ,    '	GHA      ddGHA °    ,    '	<b>UT</b>
<b>00</b>	16 22.2 +02.5	17 21.4 +02.4	18 20.5 +02.5	19 19.7 +02.4	20 18.8 +02.5	<b>00</b>
<b>01</b>	31 24.7 +02.5	32 23.8 +02.5	33 23.0 +02.4	34 22.1 +02.5	35 21.3 +02.4	<b>01</b>
<b>02</b>	46 27.2 +02.4	47 26.3 +02.5	48 25.4 +02.5	49 24.6 +02.4	50 23.7 +02.5	<b>02</b>
<b>03</b>	61 29.6 +02.5	62 28.8 +02.4	63 27.9 +02.5	64 27.0 +02.5	65 26.2 +02.4	<b>03</b>
<b>04</b>	76 32.1 +02.5	77 31.2 +02.5	78 30.4 +02.4	79 29.5 +02.5	80 28.6 +02.5	<b>04</b>
<b>05</b>	91 34.6 +02.4	92 33.7 +02.5	93 32.8 +02.5	94 32.0 +02.4	95 31.1 +02.5	<b>05</b>
<b>06</b>	106 37.0 +02.5	107 36.2 +02.4	108 35.3 +02.5	109 34.4 +02.5	110 33.6 +02.4	<b>06</b>
<b>07</b>	121 39.5 +02.5	122 38.6 +02.5	123 37.8 +02.4	124 36.9 +02.5	125 36.0 +02.5	<b>07</b>
<b>08</b>	136 42.0 +02.4	137 41.1 +02.5	138 40.2 +02.5	139 39.4 +02.4	140 38.5 +02.5	<b>08</b>
<b>09</b>	151 44.4 +02.5	152 43.6 +02.4	153 42.7 +02.5	154 41.8 +02.5	155 41.0 +02.4	<b>09</b>
<b>10</b>	166 46.9 +02.4	167 46.0 +02.5	168 45.2 +02.4	169 44.3 +02.5	170 43.4 +02.5	<b>10</b>
<b>11</b>	181 49.3 +02.5	182 48.5 +02.4	183 47.6 +02.5	184 46.8 +02.4	185 45.9 +02.5	<b>11</b>
<b>12</b>	196 51.8 +02.5	197 50.9 +02.5	198 50.1 +02.4	199 49.2 +02.5	200 48.4 +02.4	<b>12</b>
<b>13</b>	211 54.3 +02.4	212 53.4 +02.5	213 52.5 +02.5	214 51.7 +02.4	215 50.8 +02.5	<b>13</b>
<b>14</b>	226 56.7 +02.5	227 55.9 +02.4	228 55.0 +02.5	229 54.1 +02.5	230 53.3 +02.4	<b>14</b>
<b>15</b>	241 59.2 +02.5	242 58.3 +02.5	243 57.5 +02.4	244 56.6 +02.5	245 55.7 +02.5	<b>15</b>
<b>16</b>	257 01.7 +02.4	258 00.8 +02.5	258 59.9 +02.5	259 59.1 +02.4	260 58.2 +02.5	<b>16</b>
<b>17</b>	272 04.1 +02.5	273 03.3 +02.4	274 02.4 +02.5	275 01.5 +02.5	276 00.7 +02.4	<b>17</b>
<b>18</b>	287 06.6 +02.5	288 05.7 +02.5	289 04.9 +02.4	290 04.0 +02.5	291 03.1 +02.5	<b>18</b>
<b>19</b>	302 09.1 +02.4	303 08.2 +02.5	304 07.3 +02.5	305 06.5 +02.4	306 05.6 +02.5	<b>19</b>
<b>20</b>	317 11.5 +02.5	318 10.7 +02.4	319 09.8 +02.5	320 08.9 +02.5	321 08.1 +02.4	<b>20</b>
<b>21</b>	332 14.0 +02.4	333 13.1 +02.5	334 12.3 +02.4	335 11.4 +02.5	336 10.5 +02.5	<b>21</b>
<b>22</b>	347 16.4 +02.5	348 15.6 +02.5	349 14.7 +02.5	350 13.9 +02.4	351 13.0 +02.5	<b>22</b>
<b>23</b>	2 18.9 +02.5	3 18.1 +02.4	4 17.2 +02.5	5 16.3 +02.5	6 15.5 +02.4	<b>23</b>

	SHA °    ,    '	Dec °    ,    '		SHA °    ,    '	Dec °    ,    '
Alpheratz	357 35.6	N 29 13.5	Gienah	175 45.0	S 17 40.2
Ankaa	353 07.9	S 42 10.5	Acrux	173 02.0	S 63 13.7
Schedir	349 31.7	N 56 40.1	Gacrux	171 53.5	S 57 14.5
Diphda	348 48.1	S 17 51.3	Alioth	166 14.5	N 55 50.0
Achernar	335 20.4	S 57 06.9	Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.6	Alkaid	152 53.2	N 49 11.8
Polaris	314 10.3	N 89 21.7	Hadar	148 38.1	S 60 29.2
Acamar	315 12.2	S 40 12.4	Menkent	147 59.0	S 36 28.8
Menkar	314 07.0	N 04 11.1	Arcturus	145 48.8	N 19 04.5
Mirfak	308 29.4	N 49 56.7	Rigel Kentaurus	139 39.6	S 60 56.2
Aldebaran	290 40.7	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.3	N 46 01.4	Kocab	137 20.7	N 74 03.6
Rigel	281 04.7	S 08 10.3	Alphecca	126 05.0	N 26 38.3
Bellatrix	278 23.9	N 06 22.4	Antares	112 17.5	S 26 29.1
Elnath	278 03.1	N 28 37.7	Atria	107 12.8	S 69 04.4
Alnilam	275 38.7	S 01 11.0	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.1	N 07 24.8	Shaula	96 12.0	S 37 07.3
Canopus	263 52.8	S 52 42.1	Rasalhague	95 59.7	N 12 32.8
Sirius	258 26.9	S 16 44.2	Etamin	90 42.8	N 51 29.4
Adhara	255 06.7	S 28 59.9	Kaus Australis	83 34.0	S 34 22.4
Castor	245 58.4	N 31 50.2	Vega	80 34.1	N 38 48.5
Procyon	244 51.8	N 05 10.4	Nunki	75 49.1	S 26 16.1
Pollux	243 18.3	N 27 58.2	Albireo	67 04.9	N 28 00.8
Avior	234 15.4	S 59 34.7	Altair	62 01.1	N 08 55.8
Suhail	222 47.3	S 43 31.3	Peacock	53 07.2	S 56 39.7
Miplacidus	221 38.9	S 69 48.5	Deneb	49 26.4	N 45 22.1
Alphard	217 49.0	S 08 45.5	Enif	33 39.6	N 09 59.1
Regulus	207 35.7	N 11 51.2	Alnair	27 33.9	S 46 50.8
Dubhe	193 42.7	N 61 37.3	Formalhaut	15 15.5	S 29 29.7
Denebola	182 26.2	N 14 26.6	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 286 of 365 <b>October 13</b>	day 287 of 365 <b>October 14</b>	day 288 of 365 <b>October 15</b>	day 289 of 365 <b>October 16</b>	day 290 of 365 <b>October 17</b>	
<b>UT</b>	GHA      ddGHA °    ,    '	<b>UT</b>				
<b>00</b>	21 17.9 +02.5	22 17.1 +02.4	23 16.2 +02.5	24 15.3 +02.5	25 14.5 +02.4	<b>00</b>
<b>01</b>	36 20.4 +02.5	37 19.5 +02.5	38 18.7 +02.4	39 17.8 +02.5	40 16.9 +02.5	<b>01</b>
<b>02</b>	51 22.9 +02.4	52 22.0 +02.5	53 21.1 +02.5	54 20.3 +02.4	55 19.4 +02.5	<b>02</b>
<b>03</b>	66 25.3 +02.5	67 24.5 +02.4	68 23.6 +02.5	69 22.7 +02.5	70 21.9 +02.4	<b>03</b>
<b>04</b>	81 27.8 +02.4	82 26.9 +02.5	83 26.1 +02.4	84 25.2 +02.5	85 24.3 +02.5	<b>04</b>
<b>05</b>	96 30.2 +02.5	97 29.4 +02.4	98 28.5 +02.5	99 27.7 +02.4	100 26.8 +02.5	<b>05</b>
<b>06</b>	111 32.7 +02.5	112 31.8 +02.5	113 31.0 +02.4	114 30.1 +02.5	115 29.3 +02.4	<b>06</b>
<b>07</b>	126 35.2 +02.4	127 34.3 +02.5	128 33.4 +02.5	129 32.6 +02.4	130 31.7 +02.5	<b>07</b>
<b>08</b>	141 37.6 +02.5	142 36.8 +02.4	143 35.9 +02.5	144 35.0 +02.5	145 34.2 +02.5	<b>08</b>
<b>09</b>	156 40.1 +02.5	157 39.2 +02.5	158 38.4 +02.4	159 37.5 +02.5	160 36.7 +02.4	<b>09</b>
<b>10</b>	171 42.6 +02.4	172 41.7 +02.5	173 40.8 +02.5	174 40.0 +02.4	175 39.1 +02.5	<b>10</b>
<b>11</b>	186 45.0 +02.5	187 44.2 +02.4	188 43.3 +02.5	189 42.4 +02.5	190 41.6 +02.4	<b>11</b>
<b>12</b>	201 47.5 +02.5	202 46.6 +02.5	203 45.8 +02.4	204 44.9 +02.5	205 44.0 +02.5	<b>12</b>
<b>13</b>	216 50.0 +02.4	217 49.1 +02.5	218 48.2 +02.5	219 47.4 +02.4	220 46.5 +02.5	<b>13</b>
<b>14</b>	231 52.4 +02.5	232 51.6 +02.4	233 50.7 +02.5	234 49.8 +02.5	235 49.0 +02.4	<b>14</b>
<b>15</b>	246 54.9 +02.5	247 54.0 +02.5	248 53.2 +02.4	249 52.3 +02.5	250 51.4 +02.5	<b>15</b>
<b>16</b>	261 57.4 +02.4	262 56.5 +02.5	263 55.6 +02.5	264 54.8 +02.4	265 53.9 +02.5	<b>16</b>
<b>17</b>	276 59.8 +02.5	277 59.0 +02.4	278 58.1 +02.5	279 57.2 +02.5	280 56.4 +02.4	<b>17</b>
<b>18</b>	292 02.3 +02.4	293 01.4 +02.5	294 00.6 +02.4	294 59.7 +02.5	295 58.8 +02.5	<b>18</b>
<b>19</b>	307 04.7 +02.5	308 03.9 +02.4	309 03.0 +02.5	310 02.2 +02.4	311 01.3 +02.5	<b>19</b>
<b>20</b>	322 07.2 +02.5	323 06.3 +02.5	324 05.5 +02.4	325 04.6 +02.5	326 03.8 +02.4	<b>20</b>
<b>21</b>	337 09.7 +02.4	338 08.8 +02.5	339 07.9 +02.5	340 07.1 +02.4	341 06.2 +02.5	<b>21</b>
<b>22</b>	352 12.1 +02.5	353 11.3 +02.4	354 10.4 +02.5	355 09.5 +02.5	356 08.7 +02.5	<b>22</b>
<b>23</b>	7 14.6 +02.5	8 13.7 +02.5	9 12.9 +02.4	10 12.0 +02.5	11 11.2 +02.4	<b>23</b>

	SHA °    ,    '	Dec		SHA °    ,    '	Dec	
Alpheratz	357 35.6	N 29 13.5		Gienah	175 44.9	S 17 40.2
Ankaa	353 07.9	S 42 10.5		Acrux	173 02.0	S 63 13.7
Schedir	349 31.7	N 56 40.2		Gacrux	171 53.5	S 57 14.5
Diphda	348 48.1	S 17 51.3		Alioth	166 14.5	N 55 49.9
Achernar	335 20.4	S 57 06.9		Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.6		Alkaid	152 53.2	N 49 11.8
Polaris	314 09.0	N 89 21.7		Hadar	148 38.2	S 60 29.2
Acamar	315 12.1	S 40 12.4		Menkent	147 59.0	S 36 28.8
Menkar	314 07.0	N 04 11.1		Arcturus	145 48.8	N 19 04.4
Mirfak	308 29.4	N 49 56.7		Rigel Kentaurus	139 39.6	S 60 56.2
Aldebaran	290 40.6	N 16 33.6		Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.2	N 46 01.4		Kocab	137 20.8	N 74 03.6
Rigel	281 04.7	S 08 10.3		Alphecca	126 05.0	N 26 38.3
Bellatrix	278 23.8	N 06 22.4		Antares	112 17.5	S 26 29.1
Elnath	278 03.0	N 28 37.7		Atria	107 12.9	S 69 04.4
Alnilam	275 38.7	S 01 11.0		Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.1	N 07 24.8		Shaula	96 12.0	S 37 07.3
Canopus	263 52.7	S 52 42.1		Rasalhague	95 59.7	N 12 32.8
Sirius	258 26.9	S 16 44.2		Etamin	90 42.9	N 51 29.4
Adhara	255 06.6	S 28 59.9		Kaus Australis	83 34.0	S 34 22.4
Castor	245 58.3	N 31 50.2		Vega	80 34.1	N 38 48.5
Procyon	244 51.7	N 05 10.4		Nunki	75 49.1	S 26 16.1
Pollux	243 18.3	N 27 58.2		Albireo	67 04.9	N 28 00.8
Avior	234 15.3	S 59 34.7		Altair	62 01.1	N 08 55.8
Suhail	222 47.3	S 43 31.3		Peacock	53 07.2	S 56 39.7
Miplacidus	221 38.8	S 69 48.5		Deneb	49 26.4	N 45 22.1
Alphard	217 49.0	S 08 45.5		Enif	33 39.7	N 09 59.1
Regulus	207 35.7	N 11 51.2		Alnair	27 34.0	S 46 50.8
Dubhe	193 42.7	N 61 37.3		Formalhaut	15 15.5	S 29 29.8
Denebola	182 26.1	N 14 26.5		Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 291 of 365 <b>October 18</b>	day 292 of 365 <b>October 19</b>	day 293 of 365 <b>October 20</b>	day 294 of 365 <b>October 21</b>	day 295 of 365 <b>October 22</b>	
<b>UT</b>	GHA      ddGHA °    ,    '	<b>UT</b>				
<b>00</b>	26 13.6 +02.5	27 12.8 +02.4	28 11.9 +02.5	29 11.0 +02.5	30 10.2 +02.4	<b>00</b>
<b>01</b>	41 16.1 +02.4	42 15.2 +02.5	43 14.4 +02.4	44 13.5 +02.5	45 12.6 +02.5	<b>01</b>
<b>02</b>	56 18.5 +02.5	57 17.7 +02.4	58 16.8 +02.5	59 16.0 +02.4	60 15.1 +02.5	<b>02</b>
<b>03</b>	71 21.0 +02.5	72 20.1 +02.5	73 19.3 +02.5	74 18.4 +02.5	75 17.6 +02.4	<b>03</b>
<b>04</b>	86 23.5 +02.4	87 22.6 +02.5	88 21.8 +02.4	89 20.9 +02.5	90 20.0 +02.5	<b>04</b>
<b>05</b>	101 25.9 +02.5	102 25.1 +02.4	103 24.2 +02.5	104 23.4 +02.4	105 22.5 +02.5	<b>05</b>
<b>06</b>	116 28.4 +02.5	117 27.5 +02.5	118 26.7 +02.4	119 25.8 +02.5	120 25.0 +02.4	<b>06</b>
<b>07</b>	131 30.9 +02.4	132 30.0 +02.5	133 29.1 +02.5	134 28.3 +02.4	135 27.4 +02.5	<b>07</b>
<b>08</b>	146 33.3 +02.5	147 32.5 +02.4	148 31.6 +02.5	149 30.7 +02.5	150 29.9 +02.5	<b>08</b>
<b>09</b>	161 35.8 +02.5	162 34.9 +02.5	163 34.1 +02.4	164 33.2 +02.5	165 32.4 +02.4	<b>09</b>
<b>10</b>	176 38.3 +02.4	177 37.4 +02.5	178 36.5 +02.5	179 35.7 +02.4	180 34.8 +02.5	<b>10</b>
<b>11</b>	191 40.7 +02.5	192 39.9 +02.4	193 39.0 +02.5	194 38.1 +02.5	195 37.3 +02.4	<b>11</b>
<b>12</b>	206 43.2 +02.4	207 42.3 +02.5	208 41.5 +02.4	209 40.6 +02.5	210 39.7 +02.5	<b>12</b>
<b>13</b>	221 45.6 +02.5	222 44.8 +02.5	223 43.9 +02.5	224 43.1 +02.4	225 42.2 +02.5	<b>13</b>
<b>14</b>	236 48.1 +02.5	237 47.3 +02.4	238 46.4 +02.5	239 45.5 +02.5	240 44.7 +02.4	<b>14</b>
<b>15</b>	251 50.6 +02.4	252 49.7 +02.5	253 48.9 +02.4	254 48.0 +02.5	255 47.1 +02.5	<b>15</b>
<b>16</b>	266 53.0 +02.5	267 52.2 +02.4	268 51.3 +02.5	269 50.5 +02.4	270 49.6 +02.5	<b>16</b>
<b>17</b>	281 55.5 +02.5	282 54.6 +02.5	283 53.8 +02.5	284 52.9 +02.5	285 52.1 +02.4	<b>17</b>
<b>18</b>	296 58.0 +02.4	297 57.1 +02.5	298 56.3 +02.4	299 55.4 +02.5	300 54.5 +02.5	<b>18</b>
<b>19</b>	312 00.4 +02.5	312 59.6 +02.4	313 58.7 +02.5	314 57.9 +02.4	315 57.0 +02.5	<b>19</b>
<b>20</b>	327 02.9 +02.5	328 02.0 +02.5	329 01.2 +02.4	330 00.3 +02.5	330 59.5 +02.4	<b>20</b>
<b>21</b>	342 05.4 +02.4	343 04.5 +02.5	344 03.6 +02.5	345 02.8 +02.4	346 01.9 +02.5	<b>21</b>
<b>22</b>	357 07.8 +02.5	358 07.0 +02.4	359 06.1 +02.5	0 05.2 +02.5	1 04.4 +02.5	<b>22</b>
<b>23</b>	12 10.3 +02.5	13 09.4 +02.5	14 08.6 +02.4	15 07.7 +02.5	16 06.9 +02.4	<b>23</b>

	SHA °    ,    '	Dec °    ,    '		SHA °    ,    '	Dec °    ,    '
Alpheratz	357 35.6	N 29 13.5	Gienah	175 44.9	S 17 40.2
Ankaa	353 07.9	S 42 10.5	Acrux	173 02.0	S 63 13.6
Schedir	349 31.7	N 56 40.2	Gacrux	171 53.4	S 57 14.5
Diphda	348 48.1	S 17 51.3	Alioth	166 14.5	N 55 49.9
Achernar	335 20.4	S 57 06.9	Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.6	Alkaid	152 53.2	N 49 11.8
Polaris	314 07.5	N 89 21.7	Hadar	148 38.2	S 60 29.2
Acamar	315 12.1	S 40 12.4	Menkent	147 59.0	S 36 28.8
Menkar	314 06.9	N 04 11.1	Arcturus	145 48.8	N 19 04.4
Mirfak	308 29.3	N 49 56.7	Rigel Kentaurus	139 39.6	S 60 56.2
Aldebaran	290 40.6	N 16 33.6	Zubenelgenubi	136 57.5	S 16 08.3
Capella	280 23.2	N 46 01.4	Kocab	137 20.8	N 74 03.5
Rigel	281 04.7	S 08 10.3	Alphecca	126 05.0	N 26 38.3
Bellatrix	278 23.8	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 03.0	N 28 37.7	Atria	107 12.9	S 69 04.3
Alnilam	275 38.6	S 01 11.0	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.1	N 07 24.8	Shaula	96 12.0	S 37 07.3
Canopus	263 52.7	S 52 42.1	Rasalhague	95 59.7	N 12 32.8
Sirius	258 26.9	S 16 44.2	Etamin	90 42.9	N 51 29.4
Adhara	255 06.6	S 28 59.9	Kaus Australis	83 34.0	S 34 22.4
Castor	245 58.3	N 31 50.2	Vega	80 34.1	N 38 48.4
Procyon	244 51.7	N 05 10.4	Nunki	75 49.1	S 26 16.1
Pollux	243 18.2	N 27 58.1	Albireo	67 04.9	N 28 00.8
Avior	234 15.3	S 59 34.7	Altair	62 01.2	N 08 55.8
Suhail	222 47.2	S 43 31.3	Peacock	53 07.3	S 56 39.7
Miplacidus	221 38.7	S 69 48.5	Deneb	49 26.4	N 45 22.1
Alphard	217 48.9	S 08 45.5	Enif	33 39.7	N 09 59.1
Regulus	207 35.6	N 11 51.2	Alnair	27 34.0	S 46 50.8
Dubhe	193 42.7	N 61 37.3	Formalhaut	15 15.5	S 29 29.8
Denebola	182 26.1	N 14 26.5	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 296 of 365 <b>October 23</b>	day 297 of 365 <b>October 24</b>	day 298 of 365 <b>October 25</b>	day 299 of 365 <b>October 26</b>	day 300 of 365 <b>October 27</b>	
<b>UT</b>	GHA      ddGHA	<b>UT</b>				
<b>00</b>	31 09.3 +02.5	32 08.5 +02.4	33 07.6 +02.5	34 06.7 +02.5	35 05.9 +02.4	<b>00</b>
<b>01</b>	46 11.8 +02.4	47 10.9 +02.5	48 10.1 +02.4	49 09.2 +02.5	50 08.3 +02.5	<b>01</b>
<b>02</b>	61 14.2 +02.5	62 13.4 +02.4	63 12.5 +02.5	64 11.7 +02.4	65 10.8 +02.5	<b>02</b>
<b>03</b>	76 16.7 +02.5	77 15.8 +02.5	78 15.0 +02.4	79 14.1 +02.5	80 13.3 +02.4	<b>03</b>
<b>04</b>	91 19.2 +02.4	92 18.3 +02.5	93 17.4 +02.5	94 16.6 +02.5	95 15.7 +02.5	<b>04</b>
<b>05</b>	106 21.6 +02.5	107 20.8 +02.4	108 19.9 +02.5	109 19.1 +02.4	110 18.2 +02.5	<b>05</b>
<b>06</b>	121 24.1 +02.5	122 23.2 +02.5	123 22.4 +02.4	124 21.5 +02.5	125 20.7 +02.4	<b>06</b>
<b>07</b>	136 26.6 +02.4	137 25.7 +02.5	138 24.8 +02.5	139 24.0 +02.4	140 23.1 +02.5	<b>07</b>
<b>08</b>	151 29.0 +02.5	152 28.2 +02.4	153 27.3 +02.5	154 26.4 +02.5	155 25.6 +02.4	<b>08</b>
<b>09</b>	166 31.5 +02.5	167 30.6 +02.5	168 29.8 +02.4	169 28.9 +02.5	170 28.0 +02.5	<b>09</b>
<b>10</b>	181 34.0 +02.4	182 33.1 +02.5	183 32.2 +02.5	184 31.4 +02.4	185 30.5 +02.5	<b>10</b>
<b>11</b>	196 36.4 +02.5	197 35.6 +02.4	198 34.7 +02.5	199 33.8 +02.5	200 33.0 +02.4	<b>11</b>
<b>12</b>	211 38.9 +02.4	212 38.0 +02.5	213 37.2 +02.4	214 36.3 +02.5	215 35.4 +02.5	<b>12</b>
<b>13</b>	226 41.3 +02.5	227 40.5 +02.5	228 39.6 +02.5	229 38.8 +02.4	230 37.9 +02.5	<b>13</b>
<b>14</b>	241 43.8 +02.5	242 43.0 +02.4	243 42.1 +02.5	244 41.2 +02.5	245 40.4 +02.4	<b>14</b>
<b>15</b>	256 46.3 +02.4	257 45.4 +02.5	258 44.6 +02.4	259 43.7 +02.5	260 42.8 +02.5	<b>15</b>
<b>16</b>	271 48.7 +02.5	272 47.9 +02.4	273 47.0 +02.5	274 46.2 +02.4	275 45.3 +02.5	<b>16</b>
<b>17</b>	286 51.2 +02.5	287 50.3 +02.5	288 49.5 +02.4	289 48.6 +02.5	290 47.8 +02.4	<b>17</b>
<b>18</b>	301 53.7 +02.4	302 52.8 +02.5	303 51.9 +02.5	304 51.1 +02.4	305 50.2 +02.5	<b>18</b>
<b>19</b>	316 56.1 +02.5	317 55.3 +02.4	318 54.4 +02.5	319 53.5 +02.5	320 52.7 +02.4	<b>19</b>
<b>20</b>	331 58.6 +02.5	332 57.7 +02.5	333 56.9 +02.4	334 56.0 +02.5	335 55.1 +02.5	<b>20</b>
<b>21</b>	347 01.1 +02.4	348 00.2 +02.5	348 59.3 +02.5	349 58.5 +02.4	350 57.6 +02.5	<b>21</b>
<b>22</b>	2 03.5 +02.5	3 02.7 +02.4	4 01.8 +02.5	5 00.9 +02.5	6 00.1 +02.4	<b>22</b>
<b>23</b>	17 06.0 +02.5	18 05.1 +02.5	19 04.3 +02.4	20 03.4 +02.5	21 02.5 +02.5	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.5	Gienah	175 44.9	S 17 40.2
Ankaa	353 07.9	S 42 10.5	Acrux	173 01.9	S 63 13.6
Schedir	349 31.7	N 56 40.2	Gacrux	171 53.4	S 57 14.5
Diphda	348 48.1	S 17 51.3	Alioth	166 14.5	N 55 49.9
Achernar	335 20.4	S 57 06.9	Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.6	Alkaid	152 53.2	N 49 11.8
Polaris	314 06.0	N 89 21.8	Hadar	148 38.1	S 60 29.2
Acamar	315 12.1	S 40 12.4	Menkent	147 58.9	S 36 28.8
Menkar	314 06.9	N 04 11.1	Arcturus	145 48.8	N 19 04.4
Mirfak	308 29.3	N 49 56.7	Rigel Kentaurus	139 39.6	S 60 56.1
Aldebaran	290 40.6	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.1	N 46 01.4	Kocab	137 20.8	N 74 03.5
Rigel	281 04.6	S 08 10.3	Alphecca	126 05.0	N 26 38.3
Bellatrix	278 23.8	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.9	N 28 37.7	Atria	107 13.0	S 69 04.3
Alnilam	275 38.6	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.0	N 07 24.8	Shaula	96 12.0	S 37 07.3
Canopus	263 52.6	S 52 42.1	Rasalhague	95 59.7	N 12 32.8
Sirius	258 26.8	S 16 44.2	Etamin	90 42.9	N 51 29.4
Adhara	255 06.6	S 28 59.9	Kaus Australis	83 34.0	S 34 22.4
Castor	245 58.2	N 31 50.2	Vega	80 34.2	N 38 48.4
Procyon	244 51.6	N 05 10.4	Nunki	75 49.1	S 26 16.1
Pollux	243 18.2	N 27 58.1	Albireo	67 05.0	N 28 00.8
Avior	234 15.2	S 59 34.7	Altair	62 01.2	N 08 55.8
Suhail	222 47.2	S 43 31.3	Peacock	53 07.3	S 56 39.7
Miaplacidus	221 38.6	S 69 48.5	Deneb	49 26.5	N 45 22.1
Alphard	217 48.9	S 08 45.5	Enif	33 39.7	N 09 59.2
Regulus	207 35.6	N 11 51.2	Alnair	27 34.0	S 46 50.9
Dubhe	193 42.6	N 61 37.3	Formalhaut	15 15.5	S 29 29.8
Denebola	182 26.1	N 14 26.5	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 301 of 365 <b>October 28</b>	day 302 of 365 <b>October 29</b>	day 303 of 365 <b>October 30</b>	day 304 of 365 <b>October 31</b>	day 305 of 365 <b>November 1</b>	
<b>UT</b>	GHA      ddGHA	<b>UT</b>				
<b>00</b>	36 05.0 +02.5	37 04.1 +02.5	38 03.3 +02.4	39 02.4 +02.5	40 01.6 +02.4	<b>00</b>
<b>01</b>	51 07.5 +02.4	52 06.6 +02.5	53 05.7 +02.5	54 04.9 +02.4	55 04.0 +02.5	<b>01</b>
<b>02</b>	66 09.9 +02.5	67 09.1 +02.4	68 08.2 +02.5	69 07.3 +02.5	70 06.5 +02.5	<b>02</b>
<b>03</b>	81 12.4 +02.5	82 11.5 +02.5	83 10.7 +02.4	84 09.8 +02.5	85 09.0 +02.4	<b>03</b>
<b>04</b>	96 14.9 +02.4	97 14.0 +02.5	98 13.1 +02.5	99 12.3 +02.4	100 11.4 +02.5	<b>04</b>
<b>05</b>	111 17.3 +02.5	112 16.5 +02.4	113 15.6 +02.5	114 14.7 +02.5	115 13.9 +02.4	<b>05</b>
<b>06</b>	126 19.8 +02.5	127 18.9 +02.5	128 18.1 +02.4	129 17.2 +02.5	130 16.3 +02.5	<b>06</b>
<b>07</b>	141 22.3 +02.4	142 21.4 +02.5	143 20.5 +02.5	144 19.7 +02.4	145 18.8 +02.5	<b>07</b>
<b>08</b>	156 24.7 +02.5	157 23.9 +02.4	158 23.0 +02.5	159 22.1 +02.5	160 21.3 +02.4	<b>08</b>
<b>09</b>	171 27.2 +02.4	172 26.3 +02.5	173 25.5 +02.4	174 24.6 +02.5	175 23.7 +02.5	<b>09</b>
<b>10</b>	186 29.6 +02.5	187 28.8 +02.4	188 27.9 +02.5	189 27.1 +02.4	190 26.2 +02.5	<b>10</b>
<b>11</b>	201 32.1 +02.5	202 31.2 +02.5	203 30.4 +02.5	204 29.5 +02.5	205 28.7 +02.4	<b>11</b>
<b>12</b>	216 34.6 +02.4	217 33.7 +02.5	218 32.9 +02.4	219 32.0 +02.5	220 31.1 +02.5	<b>12</b>
<b>13</b>	231 37.0 +02.5	232 36.2 +02.4	233 35.3 +02.5	234 34.5 +02.4	235 33.6 +02.5	<b>13</b>
<b>14</b>	246 39.5 +02.5	247 38.6 +02.5	248 37.8 +02.4	249 36.9 +02.5	250 36.1 +02.4	<b>14</b>
<b>15</b>	261 42.0 +02.4	262 41.1 +02.5	263 40.2 +02.5	264 39.4 +02.4	265 38.5 +02.5	<b>15</b>
<b>16</b>	276 44.4 +02.5	277 43.6 +02.4	278 42.7 +02.5	279 41.8 +02.5	280 41.0 +02.5	<b>16</b>
<b>17</b>	291 46.9 +02.5	292 46.0 +02.5	293 45.2 +02.4	294 44.3 +02.5	295 43.5 +02.4	<b>17</b>
<b>18</b>	306 49.4 +02.4	307 48.5 +02.5	308 47.6 +02.5	309 46.8 +02.4	310 45.9 +02.5	<b>18</b>
<b>19</b>	321 51.8 +02.5	322 51.0 +02.4	323 50.1 +02.5	324 49.2 +02.5	325 48.4 +02.4	<b>19</b>
<b>20</b>	336 54.3 +02.4	337 53.4 +02.5	338 52.6 +02.4	339 51.7 +02.5	340 50.8 +02.5	<b>20</b>
<b>21</b>	351 56.7 +02.5	352 55.9 +02.5	353 55.0 +02.5	354 54.2 +02.4	355 53.3 +02.5	<b>21</b>
<b>22</b>	6 59.2 +02.5	7 58.4 +02.4	8 57.5 +02.5	9 56.6 +02.5	10 55.8 +02.4	<b>22</b>
<b>23</b>	22 01.7 +02.4	23 00.8 +02.5	23 60.0 +02.4	24 59.1 +02.5	25 58.2 +02.5	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.5	Gienah	175 44.9	S 17 40.2
Ankaa	353 07.9	S 42 10.5	Acrux	173 01.9	S 63 13.6
Schedir	349 31.8	N 56 40.2	Gacrux	171 53.4	S 57 14.5
Diphda	348 48.1	S 17 51.4	Alioth	166 14.5	N 55 49.8
Achernar	335 20.4	S 57 07.0	Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.6	Alkaid	152 53.2	N 49 11.7
Polaris	314 05.2	N 89 21.8	Hadar	148 38.1	S 60 29.1
Acamar	315 12.1	S 40 12.5	Menkent	147 58.9	S 36 28.8
Menkar	314 06.9	N 04 11.1	Arcturus	145 48.8	N 19 04.4
Mirfak	308 29.3	N 49 56.7	Rigel Kentaurus	139 39.6	S 60 56.1
Aldebaran	290 40.5	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.1	N 46 01.4	Kocab	137 20.9	N 74 03.5
Rigel	281 04.6	S 08 10.3	Alphecca	126 05.0	N 26 38.2
Bellatrix	278 23.7	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.9	N 28 37.7	Atria	107 13.0	S 69 04.3
Alnilam	275 38.6	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.0	N 07 24.8	Shaula	96 12.0	S 37 07.3
Canopus	263 52.6	S 52 42.1	Rasalhague	95 59.8	N 12 32.8
Sirius	258 26.8	S 16 44.2	Etamin	90 43.0	N 51 29.4
Adhara	255 06.5	S 28 59.9	Kaus Australis	83 34.1	S 34 22.4
Castor	245 58.2	N 31 50.2	Vega	80 34.2	N 38 48.4
Procyon	244 51.6	N 05 10.4	Nunki	75 49.2	S 26 16.1
Pollux	243 18.1	N 27 58.1	Albireo	67 05.0	N 28 00.8
Avior	234 15.2	S 59 34.7	Altair	62 01.2	N 08 55.8
Suhail	222 47.1	S 43 31.3	Peacock	53 07.3	S 56 39.7
Miaplacidus	221 38.5	S 69 48.5	Deneb	49 26.5	N 45 22.1
Alphard	217 48.9	S 08 45.5	Enif	33 39.7	N 09 59.1
Regulus	207 35.6	N 11 51.2	Alnair	27 34.0	S 46 50.9
Dubhe	193 42.5	N 61 37.2	Formalhaut	15 15.5	S 29 29.8
Denebola	182 26.1	N 14 26.5	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 306 of 365		day 307 of 365		day 308 of 365		day 309 of 365		day 310 of 365		
	<b>November 2</b>		<b>November 3</b>		<b>November 4</b>		<b>November 5</b>		<b>November 6</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	41 00.7	+02.5	41 59.8	+02.5	42 59.0	+02.4	43 58.1	+02.5	44 57.3	+02.4	00
01	56 03.2	+02.4	57 02.3	+02.5	58 01.4	+02.5	59 00.6	+02.5	59 59.7	+02.5	01
02	71 05.6	+02.5	72 04.8	+02.4	73 03.9	+02.5	74 03.1	+02.4	75 02.2	+02.5	02
03	86 08.1	+02.5	87 07.2	+02.5	88 06.4	+02.4	89 05.5	+02.5	90 04.7	+02.4	03
04	101 10.6	+02.4	102 09.7	+02.5	103 08.8	+02.5	104 08.0	+02.4	105 07.1	+02.5	04
05	116 13.0	+02.5	117 12.2	+02.4	118 11.3	+02.5	119 10.4	+02.5	120 09.6	+02.4	05
06	131 15.5	+02.5	132 14.6	+02.5	133 13.8	+02.4	134 12.9	+02.5	135 12.0	+02.5	06
07	146 18.0	+02.4	147 17.1	+02.5	148 16.2	+02.5	149 15.4	+02.4	150 14.5	+02.5	07
08	161 20.4	+02.5	162 19.6	+02.4	163 18.7	+02.5	164 17.8	+02.5	165 17.0	+02.4	08
09	176 22.9	+02.4	177 22.0	+02.5	178 21.2	+02.4	179 20.3	+02.5	180 19.4	+02.5	09
10	191 25.3	+02.5	192 24.5	+02.4	193 23.6	+02.5	194 22.8	+02.4	195 21.9	+02.5	10
11	206 27.8	+02.5	207 26.9	+02.5	208 26.1	+02.5	209 25.2	+02.5	210 24.4	+02.4	11
12	221 30.3	+02.4	222 29.4	+02.5	223 28.6	+02.4	224 27.7	+02.5	225 26.8	+02.5	12
13	236 32.7	+02.5	237 31.9	+02.4	238 31.0	+02.5	239 30.2	+02.4	240 29.3	+02.5	13
14	251 35.2	+02.5	252 34.3	+02.5	253 33.5	+02.4	254 32.6	+02.5	255 31.8	+02.4	14
15	266 37.7	+02.4	267 36.8	+02.5	268 35.9	+02.5	269 35.1	+02.4	270 34.2	+02.5	15
16	281 40.1	+02.5	282 39.3	+02.4	283 38.4	+02.5	284 37.5	+02.5	285 36.7	+02.5	16
17	296 42.6	+02.5	297 41.7	+02.5	298 40.9	+02.4	299 40.0	+02.5	300 39.2	+02.4	17
18	311 45.1	+02.4	312 44.2	+02.5	313 43.3	+02.5	314 42.5	+02.4	315 41.6	+02.5	18
19	326 47.5	+02.5	327 46.7	+02.4	328 45.8	+02.5	329 44.9	+02.5	330 44.1	+02.4	19
20	341 50.0	+02.4	342 49.1	+02.5	343 48.3	+02.4	344 47.4	+02.5	345 46.5	+02.5	20
21	356 52.4	+02.5	357 51.6	+02.5	358 50.7	+02.5	359 49.9	+02.4	0 49.0	+02.5	21
22	11 54.9	+02.5	12 54.1	+02.4	13 53.2	+02.5	14 52.3	+02.5	15 51.5	+02.4	22
23	26 57.4	+02.4	27 56.5	+02.5	28 55.7	+02.4	29 54.8	+02.5	30 53.9	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.5	Gienah	175 44.9	S 17 40.3
Ankaa	353 07.9	S 42 10.5	Acrux	173 01.8	S 63 13.6
Schedir	349 31.7	N 56 40.2	Gacrux	171 53.3	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.5	N 55 49.8
Achernar	335 20.4	S 57 07.0	Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.6	Alkaid	152 53.2	N 49 11.7
Polaris	314 04.0	N 89 21.8	Hadar	148 38.1	S 60 29.1
Acamar	315 12.1	S 40 12.5	Menkent	147 58.9	S 36 28.8
Menkar	314 06.9	N 04 11.1	Arcturus	145 48.8	N 19 04.4
Mirfak	308 29.2	N 49 56.7	Rigel Kentaurus	139 39.6	S 60 56.1
Aldebaran	290 40.5	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.1	N 46 01.4	Kocab	137 20.9	N 74 03.5
Rigel	281 04.6	S 08 10.3	Alphecca	126 05.0	N 26 38.2
Bellatrix	278 23.7	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.9	N 28 37.7	Atria	107 13.0	S 69 04.3
Alnilam	275 38.5	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 53.0	N 07 24.8	Shaula	96 12.0	S 37 07.3
Canopus	263 52.5	S 52 42.2	Rasalhague	95 59.8	N 12 32.8
Sirius	258 26.8	S 16 44.2	Etamin	90 43.0	N 51 29.3
Adhara	255 06.5	S 28 60.0	Kaus Australis	83 34.1	S 34 22.4
Castor	245 58.2	N 31 50.2	Vega	80 34.2	N 38 48.4
Procyon	244 51.6	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 18.1	N 27 58.1	Albireo	67 05.0	N 28 00.7
Avior	234 15.1	S 59 34.7	Altair	62 01.2	N 08 55.8
Suhail	222 47.1	S 43 31.3	Peacock	53 07.4	S 56 39.7
Miaplacidus	221 38.4	S 69 48.5	Deneb	49 26.5	N 45 22.1
Alphard	217 48.8	S 08 45.5	Enif	33 39.7	N 09 59.2
Regulus	207 35.5	N 11 51.1	Alnair	27 34.1	S 46 50.9
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Denebola	182 26.0	N 14 26.5	Markab	13 30.7	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 311 of 365		day 312 of 365		day 313 of 365		day 314 of 365		day 315 of 365		
	<b>November 7</b>		<b>November 8</b>		<b>November 9</b>		<b>November 10</b>		<b>November 11</b>		
<b>UT</b>	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	<b>UT</b>
00	45 56.4	+02.5	46 55.5	+02.5	47 54.7	+02.4	48 53.8	+02.5	49 52.9	+02.5	00
01	60 58.9	+02.4	61 58.0	+02.5	62 57.1	+02.5	63 56.3	+02.4	64 55.4	+02.5	01
02	76 01.3	+02.5	77 00.5	+02.4	77 59.6	+02.5	78 58.7	+02.5	79 57.9	+02.4	02
03	91 03.8	+02.5	92 02.9	+02.5	93 02.1	+02.4	94 01.2	+02.5	95 00.3	+02.5	03
04	106 06.3	+02.4	107 05.4	+02.5	108 04.5	+02.5	109 03.7	+02.4	110 02.8	+02.5	04
05	121 08.7	+02.5	122 07.9	+02.4	123 07.0	+02.5	124 06.1	+02.5	125 05.3	+02.4	05
06	136 11.2	+02.4	137 10.3	+02.5	138 09.5	+02.4	139 08.6	+02.5	140 07.7	+02.5	06
07	151 13.6	+02.5	152 12.8	+02.4	153 11.9	+02.5	154 11.1	+02.4	155 10.2	+02.5	07
08	166 16.1	+02.5	167 15.2	+02.5	168 14.4	+02.5	169 13.5	+02.5	170 12.7	+02.4	08
09	181 18.6	+02.4	182 17.7	+02.5	183 16.9	+02.4	184 16.0	+02.5	185 15.1	+02.5	09
10	196 21.0	+02.5	197 20.2	+02.4	198 19.3	+02.5	199 18.5	+02.4	200 17.6	+02.5	10
11	211 23.5	+02.5	212 22.6	+02.5	213 21.8	+02.4	214 20.9	+02.5	215 20.1	+02.4	11
12	226 26.0	+02.4	227 25.1	+02.5	228 24.2	+02.5	229 23.4	+02.4	230 22.5	+02.5	12
13	241 28.4	+02.5	242 27.6	+02.4	243 26.7	+02.5	244 25.8	+02.5	245 25.0	+02.4	13
14	256 30.9	+02.5	257 30.0	+02.5	258 29.2	+02.4	259 28.3	+02.5	260 27.4	+02.5	14
15	271 33.4	+02.4	272 32.5	+02.5	273 31.6	+02.5	274 30.8	+02.4	275 29.9	+02.5	15
16	286 35.8	+02.5	287 35.0	+02.4	288 34.1	+02.5	289 33.2	+02.5	290 32.4	+02.4	16
17	301 38.3	+02.5	302 37.4	+02.5	303 36.6	+02.4	304 35.7	+02.5	305 34.8	+02.5	17
18	316 40.8	+02.4	317 39.9	+02.5	318 39.0	+02.5	319 38.2	+02.4	320 37.3	+02.5	18
19	331 43.2	+02.5	332 42.4	+02.4	333 41.5	+02.5	334 40.6	+02.5	335 39.8	+02.4	19
20	346 45.7	+02.4	347 44.8	+02.5	348 44.0	+02.4	349 43.1	+02.5	350 42.2	+02.5	20
21	1 48.1	+02.5	2 47.3	+02.4	3 46.4	+02.5	4 45.6	+02.4	5 44.7	+02.5	21
22	16 50.6	+02.5	17 49.7	+02.5	18 48.9	+02.4	19 48.0	+02.5	20 47.2	+02.4	22
23	31 53.1	+02.4	32 52.2	+02.5	33 51.3	+02.5	34 50.5	+02.4	35 49.6	+02.5	23

	SHA	Dec		SHA	Dec
	° ,'	° ,'		° ,'	° ,'
Alpheratz	357 35.6	N 29 13.5	Gienah	175 44.8	S 17 40.3
Ankaa	353 07.9	S 42 10.6	Acrux	173 01.8	S 63 13.6
Schedir	349 31.8	N 56 40.3	Gacrux	171 53.3	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.4	N 55 49.8
Achernar	335 20.4	S 57 07.0	Spica	158 23.7	S 11 17.0
Hamal	327 52.1	N 23 34.7	Alkaid	152 53.2	N 49 11.7
Polaris	314 03.4	N 89 21.9	Hadar	148 38.1	S 60 29.1
Acamar	315 12.1	S 40 12.5	Menkent	147 58.9	S 36 28.8
Menkar	314 06.9	N 04 11.1	Arcturus	145 48.8	N 19 04.4
Mirfak	308 29.2	N 49 56.8	Rigel Kentaurus	139 39.6	S 60 56.1
Aldebaran	290 40.5	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.0	N 46 01.4	Kocab	137 20.9	N 74 03.4
Rigel	281 04.5	S 08 10.3	Alphecca	126 05.0	N 26 38.2
Bellatrix	278 23.7	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.8	N 28 37.7	Atria	107 13.1	S 69 04.3
Alnilam	275 38.5	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.9	N 07 24.8	Shaula	96 12.1	S 37 07.3
Canopus	263 52.5	S 52 42.2	Rasalhague	95 59.8	N 12 32.8
Sirius	258 26.7	S 16 44.2	Etamin	90 43.0	N 51 29.3
Adhara	255 06.4	S 28 60.0	Kaus Australis	83 34.1	S 34 22.4
Castor	245 58.1	N 31 50.2	Vega	80 34.3	N 38 48.4
Procyon	244 51.5	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 18.0	N 27 58.1	Albireo	67 05.0	N 28 00.7
Avior	234 15.0	S 59 34.8	Altair	62 01.2	N 08 55.8
Suhail	222 47.0	S 43 31.4	Peacock	53 07.4	S 56 39.7
Miaplacidus	221 38.4	S 69 48.5	Deneb	49 26.6	N 45 22.1
Alphard	217 48.8	S 08 45.5	Enif	33 39.7	N 09 59.1
Regulus	207 35.5	N 11 51.1	Alnair	27 34.1	S 46 50.9
Dubhe	193 42.4	N 61 37.2	Formalhaut	15 15.6	S 29 29.8
Denebola	182 26.0	N 14 26.5	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 316 of 365		day 317 of 365		day 318 of 365		day 319 of 365		day 320 of 365		
UT	GHA	ddGHA	UT								
00	50 52.1	+02.5	51 51.2	+02.5	52 50.4	+02.4	53 49.5	+02.5	54 48.6	+02.5	00
01	65 54.6	+02.4	66 53.7	+02.5	67 52.8	+02.5	68 52.0	+02.4	69 51.1	+02.5	01
02	80 57.0	+02.5	81 56.2	+02.4	82 55.3	+02.5	83 54.4	+02.5	84 53.6	+02.4	02
03	95 59.5	+02.4	96 58.6	+02.5	97 57.8	+02.4	98 56.9	+02.5	99 56.0	+02.5	03
04	111 01.9	+02.5	112 01.1	+02.4	113 00.2	+02.5	113 59.4	+02.4	114 58.5	+02.5	04
05	126 04.4	+02.5	127 03.5	+02.5	128 02.7	+02.5	129 01.8	+02.5	130 01.0	+02.4	05
06	141 06.9	+02.4	142 06.0	+02.5	143 05.2	+02.4	144 04.3	+02.5	145 03.4	+02.5	06
07	156 09.3	+02.5	157 08.5	+02.4	158 07.6	+02.5	159 06.8	+02.4	160 05.9	+02.5	07
08	171 11.8	+02.5	172 10.9	+02.5	173 10.1	+02.4	174 09.2	+02.5	175 08.4	+02.4	08
09	186 14.3	+02.4	187 13.4	+02.5	188 12.5	+02.5	189 11.7	+02.4	190 10.8	+02.5	09
10	201 16.7	+02.5	202 15.9	+02.4	203 15.0	+02.5	204 14.1	+02.5	205 13.3	+02.5	10
11	216 19.2	+02.5	217 18.3	+02.5	218 17.5	+02.4	219 16.6	+02.5	220 15.8	+02.4	11
12	231 21.7	+02.4	232 20.8	+02.5	233 19.9	+02.5	234 19.1	+02.4	235 18.2	+02.5	12
13	246 24.1	+02.5	247 23.3	+02.4	248 22.4	+02.5	249 21.5	+02.5	250 20.7	+02.4	13
14	261 26.6	+02.4	262 25.7	+02.5	263 24.9	+02.4	264 24.0	+02.5	265 23.1	+02.5	14
15	276 29.0	+02.5	277 28.2	+02.5	278 27.3	+02.5	279 26.5	+02.4	280 25.6	+02.5	15
16	291 31.5	+02.5	292 30.7	+02.4	293 29.8	+02.5	294 28.9	+02.5	295 28.1	+02.4	16
17	306 34.0	+02.4	307 33.1	+02.5	308 32.3	+02.4	309 31.4	+02.5	310 30.5	+02.5	17
18	321 36.4	+02.5	322 35.6	+02.4	323 34.7	+02.5	324 33.9	+02.4	325 33.0	+02.5	18
19	336 38.9	+02.5	337 38.0	+02.5	338 37.2	+02.4	339 36.3	+02.5	340 35.5	+02.4	19
20	351 41.4	+02.4	352 40.5	+02.5	353 39.6	+02.5	354 38.8	+02.5	355 37.9	+02.5	20
21	6 43.8	+02.5	7 43.0	+02.4	8 42.1	+02.5	9 41.3	+02.4	10 40.4	+02.5	21
22	21 46.3	+02.5	22 45.4	+02.5	23 44.6	+02.4	24 43.7	+02.5	25 42.9	+02.4	22
23	36 48.8	+02.4	37 47.9	+02.5	38 47.0	+02.5	39 46.2	+02.4	40 45.3	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.5	Gienah	175 44.8	S 17 40.3
Ankaa	353 07.9	S 42 10.6	Acrux	173 01.7	S 63 13.6
Schedir	349 31.8	N 56 40.3	Gacrux	171 53.3	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.4	N 55 49.7
Achernar	335 20.4	S 57 07.0	Spica	158 23.6	S 11 17.0
Hamal	327 52.1	N 23 34.7	Alkaid	152 53.2	N 49 11.6
Polaris	314 03.1	N 89 21.9	Hadar	148 38.1	S 60 29.1
Acamar	315 12.1	S 40 12.5	Menkent	147 58.9	S 36 28.8
Menkar	314 06.9	N 04 11.1	Arcturus	145 48.8	N 19 04.3
Mirfak	308 29.2	N 49 56.8	Rigel Kentaurus	139 39.6	S 60 56.1
Aldebaran	290 40.5	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 23.0	N 46 01.4	Kocab	137 20.9	N 74 03.4
Rigel	281 04.5	S 08 10.3	Alphecca	126 05.0	N 26 38.2
Bellatrix	278 23.6	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.8	N 28 37.7	Atria	107 13.1	S 69 04.3
Alnilam	275 38.5	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.9	N 07 24.8	Shaula	96 12.1	S 37 07.3
Canopus	263 52.5	S 52 42.2	Rasalhague	95 59.8	N 12 32.7
Sirius	258 26.7	S 16 44.2	Etamin	90 43.1	N 51 29.3
Adhara	255 06.4	S 28 60.0	Kaus Australis	83 34.1	S 34 22.4
Castor	245 58.1	N 31 50.1	Vega	80 34.3	N 38 48.4
Procyon	244 51.5	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 18.0	N 27 58.1	Albireo	67 05.1	N 28 00.7
Avior	234 15.0	S 59 34.8	Altair	62 01.3	N 08 55.8
Suhail	222 47.0	S 43 31.4	Peacock	53 07.4	S 56 39.7
Miaplacidus	221 38.3	S 69 48.5	Deneb	49 26.6	N 45 22.1
Alphard	217 48.7	S 08 45.5	Enif	33 39.8	N 09 59.1
Regulus	207 35.4	N 11 51.1	Alnair	27 34.1	S 46 50.9
Dubhe	193 42.4	N 61 37.2	Formalhaut	15 15.6	S 29 29.8
Denebola	182 26.0	N 14 26.4	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 321 of 365		day 322 of 365		day 323 of 365		day 324 of 365		day 325 of 365		
	<b>November 17</b>		<b>November 18</b>		<b>November 19</b>		<b>November 20</b>		<b>November 21</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	55 47.8	+02.5	56 46.9	+02.5	57 46.1	+02.4	58 45.2	+02.5	59 44.3	+02.5	00
01	70 50.3	+02.4	71 49.4	+02.5	72 48.5	+02.5	73 47.7	+02.4	74 46.8	+02.5	01
02	85 52.7	+02.5	86 51.9	+02.4	87 51.0	+02.5	88 50.1	+02.5	89 49.3	+02.4	02
03	100 55.2	+02.4	101 54.3	+02.5	102 53.5	+02.4	103 52.6	+02.5	104 51.7	+02.5	03
04	115 57.6	+02.5	116 56.8	+02.5	117 55.9	+02.5	118 55.1	+02.4	119 54.2	+02.5	04
05	131 00.1	+02.5	131 59.3	+02.4	132 58.4	+02.5	133 57.5	+02.5	134 56.7	+02.4	05
06	146 02.6	+02.4	147 01.7	+02.5	148 00.9	+02.4	148 60.0	+02.5	149 59.1	+02.5	06
07	161 05.0	+02.5	162 04.2	+02.4	163 03.3	+02.5	164 02.5	+02.4	165 01.6	+02.5	07
08	176 07.5	+02.5	177 06.6	+02.5	178 05.8	+02.4	179 04.9	+02.5	180 04.1	+02.4	08
09	191 10.0	+02.4	192 09.1	+02.5	193 08.2	+02.5	194 07.4	+02.5	195 06.5	+02.5	09
10	206 12.4	+02.5	207 11.6	+02.4	208 10.7	+02.5	209 09.9	+02.4	210 09.0	+02.5	10
11	221 14.9	+02.5	222 14.0	+02.5	223 13.2	+02.4	224 12.3	+02.5	225 11.5	+02.4	11
12	236 17.4	+02.4	237 16.5	+02.5	238 15.6	+02.5	239 14.8	+02.4	240 13.9	+02.5	12
13	251 19.8	+02.5	252 19.0	+02.4	253 18.1	+02.5	254 17.2	+02.5	255 16.4	+02.4	13
14	266 22.3	+02.5	267 21.4	+02.5	268 20.6	+02.4	269 19.7	+02.5	270 18.8	+02.5	14
15	281 24.8	+02.4	282 23.9	+02.5	283 23.0	+02.5	284 22.2	+02.4	285 21.3	+02.5	15
16	296 27.2	+02.5	297 26.4	+02.4	298 25.5	+02.5	299 24.6	+02.5	300 23.8	+02.4	16
17	311 29.7	+02.4	312 28.8	+02.5	313 28.0	+02.4	314 27.1	+02.5	315 26.2	+02.5	17
18	326 32.1	+02.5	327 31.3	+02.4	328 30.4	+02.5	329 29.6	+02.4	330 28.7	+02.5	18
19	341 34.6	+02.5	342 33.7	+02.5	343 32.9	+02.5	344 32.0	+02.5	345 31.2	+02.4	19
20	356 37.1	+02.4	357 36.2	+02.5	358 35.4	+02.4	359 34.5	+02.5	0 33.6	+02.5	20
21	11 39.5	+02.5	12 38.7	+02.4	13 37.8	+02.5	14 37.0	+02.4	15 36.1	+02.5	21
22	26 42.0	+02.5	27 41.1	+02.5	28 40.3	+02.4	29 39.4	+02.5	30 38.6	+02.4	22
23	41 44.5	+02.4	42 43.6	+02.5	43 42.7	+02.5	44 41.9	+02.4	45 41.0	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.6	Gienah	175 44.8	S 17 40.3
Ankaa	353 07.9	S 42 10.6	Acrux	173 01.7	S 63 13.6
Schedir	349 31.8	N 56 40.3	Gacrux	171 53.2	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.4	N 55 49.7
Achernar	335 20.4	S 57 07.1	Spica	158 23.6	S 11 17.0
Hamal	327 52.0	N 23 34.7	Alkaid	152 53.2	N 49 11.6
Polaris	314 02.5	N 89 21.9	Hadar	148 38.0	S 60 29.1
Acamar	315 12.1	S 40 12.5	Menkent	147 58.9	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.7	N 19 04.3
Mirfak	308 29.2	N 49 56.8	Rigel Kentaurus	139 39.5	S 60 56.0
Aldebaran	290 40.4	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 22.9	N 46 01.4	Kocab	137 20.9	N 74 03.4
Rigel	281 04.5	S 08 10.3	Alphecca	126 05.0	N 26 38.2
Bellatrix	278 23.6	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.8	N 28 37.7	Atria	107 13.1	S 69 04.2
Alnilam	275 38.4	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.9	N 07 24.8	Shaula	96 12.1	S 37 07.3
Canopus	263 52.4	S 52 42.2	Rasalhague	95 59.8	N 12 32.7
Sirius	258 26.7	S 16 44.3	Etamin	90 43.1	N 51 29.3
Adhara	255 06.4	S 29 00.0	Kaus Australis	83 34.1	S 34 22.4
Castor	245 58.0	N 31 50.1	Vega	80 34.3	N 38 48.4
Procyon	244 51.4	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 18.0	N 27 58.1	Albireo	67 05.1	N 28 00.7
Avior	234 14.9	S 59 34.8	Altair	62 01.3	N 08 55.8
Suhail	222 46.9	S 43 31.4	Peacock	53 07.5	S 56 39.7
Miplacidus	221 38.2	S 69 48.5	Deneb	49 26.6	N 45 22.1
Alphard	217 48.7	S 08 45.6	Enif	33 39.8	N 09 59.1
Regulus	207 35.4	N 11 51.1	Alnair	27 34.1	S 46 50.9
Dubhe	193 42.3	N 61 37.1	Formalhaut	15 15.6	S 29 29.8
Denebola	182 25.9	N 14 26.4	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 326 of 365		day 327 of 365		day 328 of 365		day 329 of 365		day 330 of 365		
UT	GHA	ddGHA	UT								
00	60 43.5	+02.5	61 42.6	+02.5	62 41.8	+02.4	63 40.9	+02.5	64 40.0	+02.5	00
01	75 46.0	+02.4	76 45.1	+02.5	77 44.2	+02.5	78 43.4	+02.4	79 42.5	+02.5	01
02	90 48.4	+02.5	91 47.6	+02.4	92 46.7	+02.5	93 45.8	+02.5	94 45.0	+02.4	02
03	105 50.9	+02.4	106 50.0	+02.5	107 49.2	+02.4	108 48.3	+02.5	109 47.4	+02.5	03
04	120 53.3	+02.5	121 52.5	+02.4	122 51.6	+02.5	123 50.8	+02.4	124 49.9	+02.5	04
05	135 55.8	+02.5	136 54.9	+02.5	137 54.1	+02.4	138 53.2	+02.5	139 52.4	+02.4	05
06	150 58.3	+02.4	151 57.4	+02.5	152 56.5	+02.5	153 55.7	+02.4	154 54.8	+02.5	06
07	166 00.7	+02.5	166 59.9	+02.4	167 59.0	+02.5	168 58.1	+02.5	169 57.3	+02.5	07
08	181 03.2	+02.5	182 02.3	+02.5	183 01.5	+02.4	184 00.6	+02.5	184 59.8	+02.4	08
09	196 05.7	+02.4	197 04.8	+02.5	198 03.9	+02.5	199 03.1	+02.4	200 02.2	+02.5	09
10	211 08.1	+02.5	212 07.3	+02.4	213 06.4	+02.5	214 05.5	+02.5	215 04.7	+02.4	10
11	226 10.6	+02.5	227 09.7	+02.5	228 08.9	+02.4	229 08.0	+02.5	230 07.1	+02.5	11
12	241 13.1	+02.4	242 12.2	+02.5	243 11.3	+02.5	244 10.5	+02.4	245 09.6	+02.5	12
13	256 15.5	+02.5	257 14.7	+02.4	258 13.8	+02.5	259 12.9	+02.5	260 12.1	+02.4	13
14	271 18.0	+02.4	272 17.1	+02.5	273 16.3	+02.4	274 15.4	+02.5	275 14.5	+02.5	14
15	286 20.4	+02.5	287 19.6	+02.4	288 18.7	+02.5	289 17.9	+02.4	290 17.0	+02.5	15
16	301 22.9	+02.5	302 22.0	+02.5	303 21.2	+02.5	304 20.3	+02.5	305 19.5	+02.4	16
17	316 25.4	+02.4	317 24.5	+02.5	318 23.7	+02.4	319 22.8	+02.5	320 21.9	+02.5	17
18	331 27.8	+02.5	332 27.0	+02.4	333 26.1	+02.5	334 25.3	+02.4	335 24.4	+02.5	18
19	346 30.3	+02.5	347 29.4	+02.5	348 28.6	+02.4	349 27.7	+02.5	350 26.9	+02.4	19
20	1 32.8	+02.4	2 31.9	+02.5	3 31.0	+02.5	4 30.2	+02.4	5 29.3	+02.5	20
21	16 35.2	+02.5	17 34.4	+02.4	18 33.5	+02.5	19 32.6	+02.5	20 31.8	+02.5	21
22	31 37.7	+02.5	32 36.8	+02.5	33 36.0	+02.4	34 35.1	+02.5	35 34.3	+02.4	22
23	46 40.2	+02.4	47 39.3	+02.5	48 38.4	+02.5	49 37.6	+02.4	50 36.7	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.6	N 29 13.6	Gienah	175 44.7	S 17 40.3
Ankaa	353 07.9	S 42 10.6	Acrux	173 01.6	S 63 13.6
Schedir	349 31.8	N 56 40.3	Gacrux	171 53.2	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.3	N 55 49.7
Achernar	335 20.5	S 57 07.1	Spica	158 23.6	S 11 17.0
Hamal	327 52.0	N 23 34.7	Alkaid	152 53.1	N 49 11.6
Polaris	314 02.6	N 89 22.0	Hadar	148 38.0	S 60 29.1
Acamar	315 12.0	S 40 12.6	Menkent	147 58.8	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.7	N 19 04.3
Mirfak	308 29.1	N 49 56.8	Rigel Kentaurus	139 39.5	S 60 56.0
Aldebaran	290 40.4	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 22.9	N 46 01.4	Kocab	137 20.9	N 74 03.3
Rigel	281 04.5	S 08 10.3	Alphecca	126 05.0	N 26 38.1
Bellatrix	278 23.6	N 06 22.4	Antares	112 17.5	S 26 29.0
Elnath	278 02.7	N 28 37.7	Atria	107 13.1	S 69 04.2
Alnilam	275 38.4	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.8	N 07 24.8	Shaula	96 12.1	S 37 07.3
Canopus	263 52.4	S 52 42.2	Rasalhague	95 59.8	N 12 32.7
Sirius	258 26.6	S 16 44.3	Etamin	90 43.1	N 51 29.3
Adhara	255 06.3	S 29 00.0	Kaus Australis	83 34.1	S 34 22.4
Castor	245 58.0	N 31 50.1	Vega	80 34.3	N 38 48.4
Procyon	244 51.4	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 17.9	N 27 58.1	Albireo	67 05.1	N 28 00.7
Avior	234 14.8	S 59 34.8	Altair	62 01.3	N 08 55.8
Suhail	222 46.9	S 43 31.4	Peacock	53 07.5	S 56 39.7
Miaplacidus	221 38.1	S 69 48.5	Deneb	49 26.6	N 45 22.1
Alphard	217 48.6	S 08 45.6	Enif	33 39.8	N 09 59.1
Regulus	207 35.4	N 11 51.1	Alnair	27 34.2	S 46 50.9
Dubhe	193 42.2	N 61 37.1	Formalhaut	15 15.6	S 29 29.8
Denebola	182 25.9	N 14 26.4	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 331 of 365		day 332 of 365		day 333 of 365		day 334 of 365		day 335 of 365		
	<b>November 27</b>		<b>November 28</b>		<b>November 29</b>		<b>November 30</b>		<b>December 1</b>		
<b>UT</b>	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	<b>UT</b>
00	65 39.2	+02.4	66 38.3	+02.5	67 37.5	+02.4	68 36.6	+02.5	69 35.7	+02.5	00
01	80 41.6	+02.5	81 40.8	+02.4	82 39.9	+02.5	83 39.1	+02.4	84 38.2	+02.5	01
02	95 44.1	+02.5	96 43.2	+02.5	97 42.4	+02.5	98 41.5	+02.5	99 40.7	+02.4	02
03	110 46.6	+02.4	111 45.7	+02.5	112 44.9	+02.4	113 44.0	+02.5	114 43.1	+02.5	03
04	125 49.0	+02.5	126 48.2	+02.4	127 47.3	+02.5	128 46.5	+02.4	129 45.6	+02.5	04
05	140 51.5	+02.5	141 50.6	+02.5	142 49.8	+02.4	143 48.9	+02.5	144 48.1	+02.4	05
06	155 54.0	+02.4	156 53.1	+02.5	157 52.2	+02.5	158 51.4	+02.5	159 50.5	+02.5	06
07	170 56.4	+02.5	171 55.6	+02.4	172 54.7	+02.5	173 53.9	+02.4	174 53.0	+02.5	07
08	185 58.9	+02.5	186 58.0	+02.5	187 57.2	+02.4	188 56.3	+02.5	189 55.5	+02.4	08
09	201 01.4	+02.4	202 00.5	+02.5	202 59.6	+02.5	203 58.8	+02.4	204 57.9	+02.5	09
10	216 03.8	+02.5	217 03.0	+02.4	218 02.1	+02.5	219 01.2	+02.5	220 00.4	+02.4	10
11	231 06.3	+02.4	232 05.4	+02.5	233 04.6	+02.4	234 03.7	+02.5	235 02.8	+02.5	11
12	246 08.7	+02.5	247 07.9	+02.5	248 07.0	+02.5	249 06.2	+02.4	250 05.3	+02.5	12
13	261 11.2	+02.5	262 10.4	+02.4	263 09.5	+02.5	264 08.6	+02.5	265 07.8	+02.4	13
14	276 13.7	+02.4	277 12.8	+02.5	278 12.0	+02.4	279 11.1	+02.5	280 10.2	+02.5	14
15	291 16.1	+02.5	292 15.3	+02.4	293 14.4	+02.5	294 13.6	+02.4	295 12.7	+02.5	15
16	306 18.6	+02.5	307 17.7	+02.5	308 16.9	+02.5	309 16.0	+02.5	310 15.2	+02.4	16
17	321 21.1	+02.4	322 20.2	+02.5	323 19.4	+02.4	324 18.5	+02.5	325 17.6	+02.5	17
18	336 23.5	+02.5	337 22.7	+02.4	338 21.8	+02.5	339 21.0	+02.4	340 20.1	+02.5	18
19	351 26.0	+02.5	352 25.1	+02.5	353 24.3	+02.4	354 23.4	+02.5	355 22.6	+02.4	19
20	6 28.5	+02.4	7 27.6	+02.5	8 26.7	+02.5	9 25.9	+02.5	10 25.0	+02.5	20
21	21 30.9	+02.5	22 30.1	+02.4	23 29.2	+02.5	24 28.4	+02.4	25 27.5	+02.5	21
22	36 33.4	+02.5	37 32.5	+02.5	38 31.7	+02.4	39 30.8	+02.5	40 30.0	+02.4	22
23	51 35.9	+02.4	52 35.0	+02.5	53 34.1	+02.5	54 33.3	+02.4	55 32.4	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.7	N 29 13.6	Gienah	175 44.7	S 17 40.3
Ankaa	353 08.0	S 42 10.6	Acrux	173 01.6	S 63 13.5
Schedir	349 31.8	N 56 40.3	Gacrux	171 53.1	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.3	N 55 49.7
Achernar	335 20.5	S 57 07.1	Spica	158 23.5	S 11 17.0
Hamal	327 52.0	N 23 34.7	Alkaid	152 53.1	N 49 11.5
Polaris	314 02.7	N 89 22.0	Hadar	148 37.9	S 60 29.0
Acamar	315 12.1	S 40 12.6	Menkent	147 58.8	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.7	N 19 04.3
Mirfak	308 29.1	N 49 56.8	Rigel Kentaurus	139 39.5	S 60 56.0
Aldebaran	290 40.4	N 16 33.6	Zubenelgenubi	136 57.4	S 16 08.3
Capella	280 22.9	N 46 01.5	Kocab	137 20.8	N 74 03.3
Rigel	281 04.5	S 08 10.4	Alphecca	126 05.0	N 26 38.1
Bellatrix	278 23.6	N 06 22.3	Antares	112 17.5	S 26 29.0
Elnath	278 02.7	N 28 37.7	Atria	107 13.1	S 69 04.2
Alnilam	275 38.4	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.8	N 07 24.7	Shaula	96 12.1	S 37 07.3
Canopus	263 52.3	S 52 42.3	Rasalhague	95 59.8	N 12 32.7
Sirius	258 26.6	S 16 44.3	Etamin	90 43.1	N 51 29.2
Adhara	255 06.3	S 29 00.1	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.9	N 31 50.1	Vega	80 34.3	N 38 48.3
Procyon	244 51.4	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 17.9	N 27 58.1	Albireo	67 05.1	N 28 00.7
Avior	234 14.8	S 59 34.8	Altair	62 01.3	N 08 55.8
Suhail	222 46.8	S 43 31.4	Peacock	53 07.5	S 56 39.7
Miplacidus	221 38.0	S 69 48.5	Deneb	49 26.7	N 45 22.1
Alphard	217 48.6	S 08 45.6	Enif	33 39.8	N 09 59.1
Regulus	207 35.3	N 11 51.1	Alnair	27 34.2	S 46 50.9
Dubhe	193 42.2	N 61 37.1	Formalhaut	15 15.6	S 29 29.8
Denebola	182 25.9	N 14 26.4	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 336 of 365 <b>December 2</b>	day 337 of 365 <b>December 3</b>	day 338 of 365 <b>December 4</b>	day 339 of 365 <b>December 5</b>	day 340 of 365 <b>December 6</b>	
<b>UT</b>	GHA      ddGHA	<b>UT</b>				
<b>00</b>	70 34.9 +02.4	71 34.0 +02.5	72 33.2 +02.4	73 32.3 +02.5	74 31.4 +02.5	<b>00</b>
<b>01</b>	85 37.3 +02.5	86 36.5 +02.5	87 35.6 +02.5	88 34.8 +02.4	89 33.9 +02.5	<b>01</b>
<b>02</b>	100 39.8 +02.5	101 39.0 +02.4	102 38.1 +02.5	103 37.2 +02.5	104 36.4 +02.4	<b>02</b>
<b>03</b>	115 42.3 +02.4	116 41.4 +02.5	117 40.6 +02.4	118 39.7 +02.5	119 38.8 +02.5	<b>03</b>
<b>04</b>	130 44.7 +02.5	131 43.9 +02.4	132 43.0 +02.5	133 42.2 +02.4	134 41.3 +02.5	<b>04</b>
<b>05</b>	145 47.2 +02.5	146 46.3 +02.5	147 45.5 +02.4	148 44.6 +02.5	149 43.8 +02.4	<b>05</b>
<b>06</b>	160 49.7 +02.4	161 48.8 +02.5	162 47.9 +02.5	163 47.1 +02.4	164 46.2 +02.5	<b>06</b>
<b>07</b>	175 52.1 +02.5	176 51.3 +02.4	177 50.4 +02.5	178 49.5 +02.5	179 48.7 +02.5	<b>07</b>
<b>08</b>	190 54.6 +02.5	191 53.7 +02.5	192 52.9 +02.4	193 52.0 +02.5	194 51.2 +02.4	<b>08</b>
<b>09</b>	205 57.1 +02.4	206 56.2 +02.5	207 55.3 +02.5	208 54.5 +02.4	209 53.6 +02.5	<b>09</b>
<b>10</b>	220 59.5 +02.5	221 58.7 +02.4	222 57.8 +02.5	223 56.9 +02.5	224 56.1 +02.4	<b>10</b>
<b>11</b>	236 02.0 +02.5	237 01.1 +02.5	238 00.3 +02.4	238 59.4 +02.5	239 58.5 +02.5	<b>11</b>
<b>12</b>	251 04.5 +02.4	252 03.6 +02.5	253 02.7 +02.5	254 01.9 +02.4	255 01.0 +02.5	<b>12</b>
<b>13</b>	266 06.9 +02.5	267 06.1 +02.4	268 05.2 +02.5	269 04.3 +02.5	270 03.5 +02.4	<b>13</b>
<b>14</b>	281 09.4 +02.4	282 08.5 +02.5	283 07.7 +02.4	284 06.8 +02.5	285 05.9 +02.5	<b>14</b>
<b>15</b>	296 11.8 +02.5	297 11.0 +02.4	298 10.1 +02.5	299 09.3 +02.4	300 08.4 +02.5	<b>15</b>
<b>16</b>	311 14.3 +02.5	312 13.4 +02.5	313 12.6 +02.5	314 11.7 +02.5	315 10.9 +02.4	<b>16</b>
<b>17</b>	326 16.8 +02.4	327 15.9 +02.5	328 15.1 +02.4	329 14.2 +02.5	330 13.3 +02.5	<b>17</b>
<b>18</b>	341 19.2 +02.5	342 18.4 +02.4	343 17.5 +02.5	344 16.7 +02.4	345 15.8 +02.5	<b>18</b>
<b>19</b>	356 21.7 +02.5	357 20.8 +02.5	358 20.0 +02.4	359 19.1 +02.5	0 18.3 +02.4	<b>19</b>
<b>20</b>	11 24.2 +02.4	12 23.3 +02.5	13 22.4 +02.5	14 21.6 +02.4	15 20.7 +02.5	<b>20</b>
<b>21</b>	26 26.6 +02.5	27 25.8 +02.4	28 24.9 +02.5	29 24.0 +02.5	30 23.2 +02.4	<b>21</b>
<b>22</b>	41 29.1 +02.5	42 28.2 +02.5	43 27.4 +02.4	44 26.5 +02.5	45 25.6 +02.5	<b>22</b>
<b>23</b>	56 31.6 +02.4	57 30.7 +02.5	58 29.8 +02.5	59 29.0 +02.4	60 28.1 +02.5	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.7	N 29 13.6	Gienah	175 44.6	S 17 40.3
Ankaa	353 08.0	S 42 10.6	Acrux	173 01.5	S 63 13.5
Schedir	349 31.9	N 56 40.4	Gacrux	171 53.0	S 57 14.4
Diphda	348 48.1	S 17 51.4	Alioth	166 14.2	N 55 49.6
Achernar	335 20.5	S 57 07.1	Spica	158 23.5	S 11 17.0
Hamal	327 52.0	N 23 34.7	Alkaid	152 53.1	N 49 11.5
Polaris	314 02.9	N 89 22.0	Hadar	148 37.9	S 60 29.0
Acamar	315 12.0	S 40 12.6	Menkent	147 58.7	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.7	N 19 04.2
Mirfak	308 29.1	N 49 56.9	Rigel Kentaurus	139 39.4	S 60 56.0
Aldebaran	290 40.4	N 16 33.6	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 22.8	N 46 01.5	Kocab	137 20.8	N 74 03.3
Rigel	281 04.4	S 08 10.4	Alphecca	126 04.9	N 26 38.1
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.5	S 26 29.0
Elnath	278 02.7	N 28 37.7	Atria	107 13.0	S 69 04.2
Alnilam	275 38.4	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.8	N 07 24.7	Shaula	96 12.1	S 37 07.3
Canopus	263 52.3	S 52 42.3	Rasalhague	95 59.8	N 12 32.7
Sirius	258 26.6	S 16 44.3	Etamin	90 43.1	N 51 29.2
Adhara	255 06.3	S 29 00.1	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.9	N 31 50.1	Vega	80 34.3	N 38 48.3
Procyon	244 51.3	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 17.8	N 27 58.1	Albireo	67 05.1	N 28 00.7
Avior	234 14.7	S 59 34.8	Altair	62 01.3	N 08 55.8
Suhail	222 46.8	S 43 31.4	Peacock	53 07.5	S 56 39.7
Miaplacidus	221 37.9	S 69 48.6	Deneb	49 26.7	N 45 22.1
Alphard	217 48.6	S 08 45.6	Enif	33 39.8	N 09 59.1
Regulus	207 35.3	N 11 51.0	Alnair	27 34.2	S 46 50.9
Dubhe	193 42.1	N 61 37.1	Formalhaut	15 15.7	S 29 29.8
Denebola	182 25.8	N 14 26.4	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 341 of 365 <b>December 7</b>	day 342 of 365 <b>December 8</b>	day 343 of 365 <b>December 9</b>	day 344 of 365 <b>December 10</b>	day 345 of 365 <b>December 11</b>	
<b>UT</b>	GHA      ddGHA	GHA      ddGHA	GHA      ddGHA	GHA      ddGHA	GHA      ddGHA	<b>UT</b>
<b>00</b>	75 30.6 +02.4	76 29.7 +02.5	77 28.9 +02.4	78 28.0 +02.5	79 27.1 +02.5	<b>00</b>
<b>01</b>	90 33.0 +02.5	91 32.2 +02.4	92 31.3 +02.5	93 30.5 +02.4	94 29.6 +02.5	<b>01</b>
<b>02</b>	105 35.5 +02.5	106 34.6 +02.5	107 33.8 +02.4	108 32.9 +02.5	109 32.1 +02.4	<b>02</b>
<b>03</b>	120 38.0 +02.4	121 37.1 +02.5	122 36.2 +02.5	123 35.4 +02.4	124 34.5 +02.5	<b>03</b>
<b>04</b>	135 40.4 +02.5	136 39.6 +02.4	137 38.7 +02.5	138 37.8 +02.5	139 37.0 +02.5	<b>04</b>
<b>05</b>	150 42.9 +02.5	151 42.0 +02.5	152 41.2 +02.4	153 40.3 +02.5	154 39.5 +02.4	<b>05</b>
<b>06</b>	165 45.4 +02.4	166 44.5 +02.5	167 43.6 +02.5	168 42.8 +02.4	169 41.9 +02.5	<b>06</b>
<b>07</b>	180 47.8 +02.5	181 47.0 +02.4	182 46.1 +02.5	183 45.2 +02.5	184 44.4 +02.4	<b>07</b>
<b>08</b>	195 50.3 +02.5	196 49.4 +02.5	197 48.6 +02.4	198 47.7 +02.5	199 46.8 +02.5	<b>08</b>
<b>09</b>	210 52.8 +02.4	211 51.9 +02.5	212 51.0 +02.5	213 50.2 +02.4	214 49.3 +02.5	<b>09</b>
<b>10</b>	225 55.2 +02.5	226 54.4 +02.4	227 53.5 +02.5	228 52.6 +02.5	229 51.8 +02.4	<b>10</b>
<b>11</b>	240 57.7 +02.4	241 56.8 +02.5	242 56.0 +02.4	243 55.1 +02.5	244 54.2 +02.5	<b>11</b>
<b>12</b>	256 00.1 +02.5	256 59.3 +02.4	257 58.4 +02.5	258 57.6 +02.4	259 56.7 +02.5	<b>12</b>
<b>13</b>	271 02.6 +02.5	272 01.7 +02.5	273 00.9 +02.5	274 00.0 +02.5	274 59.2 +02.4	<b>13</b>
<b>14</b>	286 05.1 +02.4	287 04.2 +02.5	288 03.4 +02.4	289 02.5 +02.5	290 01.6 +02.5	<b>14</b>
<b>15</b>	301 07.5 +02.5	302 06.7 +02.4	303 05.8 +02.5	304 05.0 +02.4	305 04.1 +02.5	<b>15</b>
<b>16</b>	316 10.0 +02.5	317 09.1 +02.5	318 08.3 +02.4	319 07.4 +02.5	320 06.6 +02.4	<b>16</b>
<b>17</b>	331 12.5 +02.4	332 11.6 +02.5	333 10.7 +02.5	334 09.9 +02.4	335 09.0 +02.5	<b>17</b>
<b>18</b>	346 14.9 +02.5	347 14.1 +02.4	348 13.2 +02.5	349 12.3 +02.5	350 11.5 +02.5	<b>18</b>
<b>19</b>	1 17.4 +02.5	2 16.5 +02.5	3 15.7 +02.4	4 14.8 +02.5	5 14.0 +02.4	<b>19</b>
<b>20</b>	16 19.9 +02.4	17 19.0 +02.5	18 18.1 +02.5	19 17.3 +02.4	20 16.4 +02.5	<b>20</b>
<b>21</b>	31 22.3 +02.5	32 21.5 +02.4	33 20.6 +02.5	34 19.7 +02.5	35 18.9 +02.4	<b>21</b>
<b>22</b>	46 24.8 +02.5	47 23.9 +02.5	48 23.1 +02.4	49 22.2 +02.5	50 21.3 +02.5	<b>22</b>
<b>23</b>	61 27.3 +02.4	62 26.4 +02.5	63 25.5 +02.5	64 24.7 +02.4	65 23.8 +02.5	<b>23</b>

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.7	N 29 13.6	Gienah	175 44.6	S 17 40.3
Ankaa	353 08.0	S 42 10.6	Acrux	173 01.4	S 63 13.5
Schedir	349 31.9	N 56 40.4	Gacrux	171 53.0	S 57 14.4
Diphda	348 48.2	S 17 51.4	Alioth	166 14.2	N 55 49.6
Achernar	335 20.5	S 57 07.1	Spica	158 23.5	S 11 17.0
Hamal	327 52.0	N 23 34.7	Alkaid	152 53.0	N 49 11.5
Polaris	314 03.8	N 89 22.1	Hadar	148 37.8	S 60 29.0
Acamar	315 12.1	S 40 12.6	Menkent	147 58.7	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.6	N 19 04.2
Mirfak	308 29.1	N 49 56.9	Rigel Kentaurus	139 39.4	S 60 56.0
Aldebaran	290 40.4	N 16 33.6	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 22.8	N 46 01.5	Kocab	137 20.8	N 74 03.2
Rigel	281 04.4	S 08 10.4	Alphecca	126 04.9	N 26 38.1
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.5	S 26 29.0
Elnath	278 02.7	N 28 37.7	Atria	107 13.0	S 69 04.2
Alnilam	275 38.3	S 01 11.1	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.8	N 07 24.7	Shaula	96 12.0	S 37 07.2
Canopus	263 52.3	S 52 42.3	Rasalhague	95 59.8	N 12 32.7
Sirius	258 26.5	S 16 44.3	Etamin	90 43.1	N 51 29.2
Adhara	255 06.2	S 29 00.1	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.9	N 31 50.1	Vega	80 34.3	N 38 48.3
Procyon	244 51.3	N 05 10.3	Nunki	75 49.2	S 26 16.1
Pollux	243 17.8	N 27 58.1	Albireo	67 05.1	N 28 00.7
Avior	234 14.7	S 59 34.9	Altair	62 01.3	N 08 55.8
Suhail	222 46.8	S 43 31.4	Peacock	53 07.6	S 56 39.7
Miaplacidus	221 37.9	S 69 48.6	Deneb	49 26.7	N 45 22.1
Alphard	217 48.5	S 08 45.6	Enif	33 39.8	N 09 59.1
Regulus	207 35.2	N 11 51.0	Alnair	27 34.2	S 46 50.9
Dubhe	193 42.0	N 61 37.1	Formalhaut	15 15.7	S 29 29.8
Denebola	182 25.8	N 14 26.3	Markab	13 30.8	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 346 of 365		day 347 of 365		day 348 of 365		day 349 of 365		day 350 of 365		
	<b>December 12</b>		<b>December 13</b>		<b>December 14</b>		<b>December 15</b>		<b>December 16</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	80 26.3	+02.4	81 25.4	+02.5	82 24.6	+02.4	83 23.7	+02.5	84 22.8	+02.5	00
01	95 28.7	+02.5	96 27.9	+02.4	97 27.0	+02.5	98 26.2	+02.4	99 25.3	+02.5	01
02	110 31.2	+02.5	111 30.3	+02.5	112 29.5	+02.4	113 28.6	+02.5	114 27.8	+02.4	02
03	125 33.7	+02.4	126 32.8	+02.5	127 31.9	+02.5	128 31.1	+02.5	129 30.2	+02.5	03
04	140 36.1	+02.5	141 35.3	+02.4	142 34.4	+02.5	143 33.6	+02.4	144 32.7	+02.5	04
05	155 38.6	+02.5	156 37.7	+02.5	157 36.9	+02.4	158 36.0	+02.5	159 35.2	+02.4	05
06	170 41.1	+02.4	171 40.2	+02.5	172 39.3	+02.5	173 38.5	+02.4	174 37.6	+02.5	06
07	185 43.5	+02.5	186 42.7	+02.4	187 41.8	+02.5	188 40.9	+02.5	189 40.1	+02.5	07
08	200 46.0	+02.5	201 45.1	+02.5	202 44.3	+02.4	203 43.4	+02.5	204 42.6	+02.4	08
09	215 48.5	+02.4	216 47.6	+02.5	217 46.7	+02.5	218 45.9	+02.4	219 45.0	+02.5	09
10	230 50.9	+02.5	231 50.1	+02.4	232 49.2	+02.5	233 48.3	+02.5	234 47.5	+02.4	10
11	245 53.4	+02.4	246 52.5	+02.5	247 51.7	+02.4	248 50.8	+02.5	249 49.9	+02.5	11
12	260 55.8	+02.5	261 55.0	+02.4	262 54.1	+02.5	263 53.3	+02.4	264 52.4	+02.5	12
13	275 58.3	+02.5	276 57.4	+02.5	277 56.6	+02.5	278 55.7	+02.5	279 54.9	+02.4	13
14	291 00.8	+02.4	291 59.9	+02.5	292 59.1	+02.4	293 58.2	+02.5	294 57.3	+02.5	14
15	306 03.2	+02.5	307 02.4	+02.4	308 01.5	+02.5	309 00.7	+02.4	309 59.8	+02.5	15
16	321 05.7	+02.5	322 04.8	+02.5	323 04.0	+02.4	324 03.1	+02.5	325 02.3	+02.4	16
17	336 08.2	+02.4	337 07.3	+02.5	338 06.4	+02.5	339 05.6	+02.5	340 04.7	+02.5	17
18	351 10.6	+02.5	352 09.8	+02.4	353 08.9	+02.5	354 08.1	+02.4	355 07.2	+02.5	18
19	6 13.1	+02.5	7 12.2	+02.5	8 11.4	+02.4	9 10.5	+02.5	10 09.7	+02.4	19
20	21 15.6	+02.4	22 14.7	+02.5	23 13.8	+02.5	24 13.0	+02.4	25 12.1	+02.5	20
21	36 18.0	+02.5	37 17.2	+02.4	38 16.3	+02.5	39 15.4	+02.5	40 14.6	+02.5	21
22	51 20.5	+02.5	52 19.6	+02.5	53 18.8	+02.4	54 17.9	+02.5	55 17.1	+02.4	22
23	66 23.0	+02.4	67 22.1	+02.5	68 21.2	+02.5	69 20.4	+02.4	70 19.5	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
Alpheratz	357 35.7	N 29 13.6	Gienah	175 44.6	S 17 40.3
Ankaa	353 08.0	S 42 10.7	Acrux	173 01.3	S 63 13.5
Schedir	349 31.9	N 56 40.4	Gacrux	171 52.9	S 57 14.4
Diphda	348 48.2	S 17 51.4	Alioth	166 14.1	N 55 49.6
Achernar	335 20.6	S 57 07.1	Spica	158 23.4	S 11 17.0
Hamal	327 52.1	N 23 34.7	Alkaid	152 53.0	N 49 11.5
Polaris	314 04.5	N 89 22.1	Hadar	148 37.8	S 60 29.0
Acamar	315 12.1	S 40 12.7	Menkent	147 58.7	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.6	N 19 04.2
Mirfak	308 29.1	N 49 56.9	Rigel Kentaurus	139 39.3	S 60 56.0
Aldebaran	290 40.3	N 16 33.6	Zubenelgenubi	136 57.3	S 16 08.3
Capella	280 22.8	N 46 01.5	Kocab	137 20.7	N 74 03.2
Rigel	281 04.4	S 08 10.4	Alphecca	126 04.9	N 26 38.0
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.4	S 26 29.0
Elnath	278 02.6	N 28 37.7	Atria	107 13.0	S 69 04.1
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 12.0	S 37 07.2
Canopus	263 52.3	S 52 42.4	Rasalhague	95 59.8	N 12 32.6
Sirius	258 26.5	S 16 44.4	Etamin	90 43.1	N 51 29.1
Adhara	255 06.2	S 29 00.1	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.8	N 31 50.1	Vega	80 34.4	N 38 48.3
Procyon	244 51.3	N 05 10.2	Nunki	75 49.2	S 26 16.0
Pollux	243 17.8	N 27 58.1	Albireo	67 05.1	N 28 00.6
Avior	234 14.6	S 59 34.9	Altair	62 01.3	N 08 55.8
Suhail	222 46.7	S 43 31.5	Peacock	53 07.6	S 56 39.7
Miplacidus	221 37.8	S 69 48.6	Deneb	49 26.7	N 45 22.1
Alphard	217 48.5	S 08 45.6	Enif	33 39.8	N 09 59.1
Regulus	207 35.2	N 11 51.0	Alnair	27 34.3	S 46 50.9
Dubhe	193 41.9	N 61 37.1	Formalhaut	15 15.7	S 29 29.9
Denebola	182 25.7	N 14 26.3	Markab	13 30.9	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 351 of 365		day 352 of 365		day 353 of 365		day 354 of 365		day 355 of 365		
	<b>December 17</b>		<b>December 18</b>		<b>December 19</b>		<b>December 20</b>		<b>December 21</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	85 22.0	+02.4	86 21.1	+02.5	87 20.3	+02.4	88 19.4	+02.5	89 18.5	+02.5	00
01	100 24.4	+02.5	101 23.6	+02.4	102 22.7	+02.5	103 21.9	+02.4	104 21.0	+02.5	01
02	115 26.9	+02.5	116 26.0	+02.5	117 25.2	+02.5	118 24.3	+02.5	119 23.5	+02.4	02
03	130 29.4	+02.4	131 28.5	+02.5	132 27.7	+02.4	133 26.8	+02.5	134 25.9	+02.5	03
04	145 31.8	+02.5	146 31.0	+02.4	147 30.1	+02.5	148 29.3	+02.4	149 28.4	+02.5	04
05	160 34.3	+02.5	161 33.4	+02.5	162 32.6	+02.4	163 31.7	+02.5	164 30.9	+02.4	05
06	175 36.8	+02.4	176 35.9	+02.5	177 35.0	+02.5	178 34.2	+02.4	179 33.3	+02.5	06
07	190 39.2	+02.5	191 38.4	+02.4	192 37.5	+02.5	193 36.6	+02.5	194 35.8	+02.4	07
08	205 41.7	+02.5	206 40.8	+02.5	207 40.0	+02.4	208 39.1	+02.5	209 38.2	+02.5	08
09	220 44.2	+02.4	221 43.3	+02.5	222 42.4	+02.5	223 41.6	+02.4	224 40.7	+02.5	09
10	235 46.6	+02.5	236 45.8	+02.4	237 44.9	+02.5	238 44.0	+02.5	239 43.2	+02.4	10
11	250 49.1	+02.4	251 48.2	+02.5	252 47.4	+02.4	253 46.5	+02.5	254 45.6	+02.5	11
12	265 51.5	+02.5	266 50.7	+02.5	267 49.8	+02.5	268 49.0	+02.4	269 48.1	+02.5	12
13	280 54.0	+02.5	281 53.2	+02.4	282 52.3	+02.5	283 51.4	+02.5	284 50.6	+02.4	13
14	295 56.5	+02.4	296 55.6	+02.5	297 54.8	+02.4	298 53.9	+02.5	299 53.0	+02.5	14
15	310 58.9	+02.5	311 58.1	+02.4	312 57.2	+02.5	313 56.4	+02.4	314 55.5	+02.5	15
16	326 01.4	+02.5	327 00.5	+02.5	327 59.7	+02.4	328 58.8	+02.5	329 58.0	+02.4	16
17	341 03.9	+02.4	342 03.0	+02.5	343 02.1	+02.5	344 01.3	+02.4	345 00.4	+02.5	17
18	356 06.3	+02.5	357 05.5	+02.4	358 04.6	+02.5	359 03.7	+02.5	0 02.9	+02.5	18
19	11 08.8	+02.5	12 07.9	+02.5	13 07.1	+02.4	14 06.2	+02.5	15 05.4	+02.4	19
20	26 11.3	+02.4	27 10.4	+02.5	28 09.5	+02.5	29 08.7	+02.4	30 07.8	+02.5	20
21	41 13.7	+02.5	42 12.9	+02.4	43 12.0	+02.5	44 11.1	+02.5	45 10.3	+02.4	21
22	56 16.2	+02.5	57 15.3	+02.5	58 14.5	+02.4	59 13.6	+02.5	60 12.7	+02.5	22
23	71 18.7	+02.4	72 17.8	+02.5	73 16.9	+02.5	74 16.1	+02.4	75 15.2	+02.5	23

	SHA	Dec	SHA	Dec	
	° , '	° , '	° , '	° , '	
Alpheratz	357 35.7	N 29 13.6	Gienah	175 44.5	S 17 40.4
Ankaa	353 08.0	S 42 10.7	Acrux	173 01.2	S 63 13.6
Schedir	349 31.9	N 56 40.4	Gacrux	171 52.8	S 57 14.4
Diphda	348 48.2	S 17 51.4	Alioth	166 14.0	N 55 49.6
Achernar	335 20.6	S 57 07.2	Spica	158 23.4	S 11 17.1
Hamal	327 52.1	N 23 34.7	Alkaid	152 52.9	N 49 11.4
Polaris	314 05.3	N 89 22.1	Hadar	148 37.7	S 60 29.0
Acamar	315 12.1	S 40 12.7	Menkent	147 58.6	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.6	N 19 04.2
Mirfak	308 29.1	N 49 56.9	Rigel Kentaurus	139 39.2	S 60 56.0
Aldebaran	290 40.3	N 16 33.6	Zubenelgenubi	136 57.2	S 16 08.3
Capella	280 22.8	N 46 01.5	Kocab	137 20.6	N 74 03.2
Rigel	281 04.4	S 08 10.4	Alphecca	126 04.9	N 26 38.0
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.4	S 26 29.0
Elnath	278 02.6	N 28 37.7	Atria	107 12.9	S 69 04.1
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 12.0	S 37 07.2
Canopus	263 52.2	S 52 42.4	Rasalhague	95 59.8	N 12 32.6
Sirius	258 26.5	S 16 44.4	Etamin	90 43.1	N 51 29.1
Adhara	255 06.2	S 29 00.2	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.8	N 31 50.1	Vega	80 34.3	N 38 48.2
Procyon	244 51.2	N 05 10.2	Nunki	75 49.2	S 26 16.0
Pollux	243 17.7	N 27 58.1	Albireo	67 05.1	N 28 00.6
Avior	234 14.6	S 59 34.9	Altair	62 01.3	N 08 55.7
Suhail	222 46.7	S 43 31.5	Peacock	53 07.6	S 56 39.6
Miaplacidus	221 37.7	S 69 48.6	Deneb	49 26.8	N 45 22.1
Alphard	217 48.4	S 08 45.7	Enif	33 39.9	N 09 59.1
Regulus	207 35.1	N 11 51.0	Alnair	27 34.3	S 46 50.9
Dubhe	193 41.9	N 61 37.1	Formalhaut	15 15.7	S 29 29.9
Denebola	182 25.7	N 14 26.3	Markab	13 30.9	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 356 of 365		day 357 of 365		day 358 of 365		day 359 of 365		day 360 of 365		
	<b>December 22</b>		<b>December 23</b>		<b>December 24</b>		<b>December 25</b>		<b>December 26</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	90 17.7	+02.4	91 16.8	+02.5	92 16.0	+02.4	93 15.1	+02.5	94 14.2	+02.5	00
01	105 20.1	+02.5	106 19.3	+02.4	107 18.4	+02.5	108 17.6	+02.4	109 16.7	+02.5	01
02	120 22.6	+02.5	121 21.7	+02.5	122 20.9	+02.4	123 20.0	+02.5	124 19.2	+02.4	02
03	135 25.1	+02.4	136 24.2	+02.5	137 23.3	+02.5	138 22.5	+02.4	139 21.6	+02.5	03
04	150 27.5	+02.5	151 26.7	+02.4	152 25.8	+02.5	153 24.9	+02.5	154 24.1	+02.5	04
05	165 30.0	+02.5	166 29.1	+02.5	167 28.3	+02.4	168 27.4	+02.5	169 26.6	+02.4	05
06	180 32.5	+02.4	181 31.6	+02.5	182 30.7	+02.5	183 29.9	+02.4	184 29.0	+02.5	06
07	195 34.9	+02.5	196 34.1	+02.4	197 33.2	+02.5	198 32.3	+02.5	199 31.5	+02.4	07
08	210 37.4	+02.4	211 36.5	+02.5	212 35.7	+02.4	213 34.8	+02.5	214 33.9	+02.5	08
09	225 39.8	+02.5	226 39.0	+02.5	227 38.1	+02.5	228 37.3	+02.4	229 36.4	+02.5	09
10	240 42.3	+02.5	241 41.5	+02.4	242 40.6	+02.5	243 39.7	+02.5	244 38.9	+02.4	10
11	255 44.8	+02.4	256 43.9	+02.5	257 43.1	+02.4	258 42.2	+02.5	259 41.3	+02.5	11
12	270 47.2	+02.5	271 46.4	+02.4	272 45.5	+02.5	273 44.7	+02.4	274 43.8	+02.5	12
13	285 49.7	+02.5	286 48.8	+02.5	287 48.0	+02.5	288 47.1	+02.5	289 46.3	+02.4	13
14	300 52.2	+02.4	301 51.3	+02.5	302 50.5	+02.4	303 49.6	+02.5	304 48.7	+02.5	14
15	315 54.6	+02.5	316 53.8	+02.4	317 52.9	+02.5	318 52.1	+02.4	319 51.2	+02.5	15
16	330 57.1	+02.5	331 56.2	+02.5	332 55.4	+02.4	333 54.5	+02.5	334 53.7	+02.4	16
17	345 59.6	+02.4	346 58.7	+02.5	347 57.8	+02.5	348 57.0	+02.4	349 56.1	+02.5	17
18	1 02.0	+02.5	2 01.2	+02.4	3 00.3	+02.5	3 59.4	+02.5	4 58.6	+02.5	18
19	16 04.5	+02.5	17 03.6	+02.5	18 02.8	+02.4	19 01.9	+02.5	20 01.1	+02.4	19
20	31 07.0	+02.4	32 06.1	+02.5	33 05.2	+02.5	34 04.4	+02.4	35 03.5	+02.5	20
21	46 09.4	+02.5	47 08.6	+02.4	48 07.7	+02.5	49 06.8	+02.5	50 06.0	+02.4	21
22	61 11.9	+02.4	62 11.0	+02.5	63 10.2	+02.4	64 09.3	+02.5	65 08.4	+02.5	22
23	76 14.3	+02.5	77 13.5	+02.5	78 12.6	+02.5	79 11.8	+02.4	80 10.9	+02.5	23

	SHA	Dec		SHA	Dec
	° , '	° , '		° , '	° , '
Alpheratz	357 35.7	N 29 13.6	Gienah	175 44.5	S 17 40.4
Ankaa	353 08.1	S 42 10.7	Acrux	173 01.2	S 63 13.6
Schedir	349 32.0	N 56 40.4	Gacrux	171 52.8	S 57 14.4
Diphda	348 48.2	S 17 51.5	Alioth	166 14.0	N 55 49.5
Achernar	335 20.6	S 57 07.2	Spica	158 23.4	S 11 17.1
Hamal	327 52.1	N 23 34.7	Alkaid	152 52.9	N 49 11.4
Polaris	314 06.8	N 89 22.1	Hadar	148 37.6	S 60 29.0
Acamar	315 12.1	S 40 12.7	Menkent	147 58.6	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.5	N 19 04.2
Mirfak	308 29.1	N 49 56.9	Rigel Kentaurus	139 39.2	S 60 56.0
Aldebaran	290 40.3	N 16 33.6	Zubenelgenubi	136 57.2	S 16 08.4
Capella	280 22.7	N 46 01.5	Kocab	137 20.6	N 74 03.1
Rigel	281 04.4	S 08 10.4	Alphecca	126 04.8	N 26 38.0
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.4	S 26 29.0
Elnath	278 02.6	N 28 37.8	Atria	107 12.9	S 69 04.1
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.2	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 12.0	S 37 07.2
Canopus	263 52.2	S 52 42.4	Rasalhague	95 59.8	N 12 32.6
Sirius	258 26.5	S 16 44.4	Etamin	90 43.1	N 51 29.1
Adhara	255 06.2	S 29 00.2	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.7	N 31 50.1	Vega	80 34.3	N 38 48.2
Procyon	244 51.2	N 05 10.2	Nunki	75 49.2	S 26 16.0
Pollux	243 17.7	N 27 58.1	Albireo	67 05.1	N 28 00.6
Avior	234 14.5	S 59 34.9	Altair	62 01.3	N 08 55.7
Suhail	222 46.6	S 43 31.5	Peacock	53 07.6	S 56 39.6
Miaplacidus	221 37.6	S 69 48.7	Deneb	49 26.8	N 45 22.0
Alphard	217 48.4	S 08 45.7	Enif	33 39.9	N 09 59.1
Regulus	207 35.1	N 11 51.0	Alnair	27 34.3	S 46 50.9
Dubhe	193 41.8	N 61 37.1	Formalhaut	15 15.7	S 29 29.9
Denebola	182 25.7	N 14 26.3	Markab	13 30.9	N 15 20.1

# 2023 - First Point of Aries / Selected Stars

	day 361 of 365		day 362 of 365		day 363 of 365		day 364 of 365		day 365 of 365		
	<b>December 27</b>		<b>December 28</b>		<b>December 29</b>		<b>December 30</b>		<b>December 31</b>		
<b>UT</b>	GHA	ddGHA	<b>UT</b>								
00	95 13.4	+02.4	96 12.5	+02.5	97 11.7	+02.4	98 10.8	+02.5	99 09.9	+02.5	00
01	110 15.8	+02.5	111 15.0	+02.4	112 14.1	+02.5	113 13.3	+02.4	114 12.4	+02.5	01
02	125 18.3	+02.5	126 17.4	+02.5	127 16.6	+02.4	128 15.7	+02.5	129 14.9	+02.4	02
03	140 20.8	+02.4	141 19.9	+02.5	142 19.0	+02.5	143 18.2	+02.5	144 17.3	+02.5	03
04	155 23.2	+02.5	156 22.4	+02.4	157 21.5	+02.5	158 20.7	+02.4	159 19.8	+02.5	04
05	170 25.7	+02.5	171 24.8	+02.5	172 24.0	+02.4	173 23.1	+02.5	174 22.3	+02.4	05
06	185 28.2	+02.4	186 27.3	+02.5	187 26.4	+02.5	188 25.6	+02.4	189 24.7	+02.5	06
07	200 30.6	+02.5	201 29.8	+02.4	202 28.9	+02.5	203 28.0	+02.5	204 27.2	+02.5	07
08	215 33.1	+02.5	216 32.2	+02.5	217 31.4	+02.4	218 30.5	+02.5	219 29.7	+02.4	08
09	230 35.6	+02.4	231 34.7	+02.5	232 33.8	+02.5	233 33.0	+02.4	234 32.1	+02.5	09
10	245 38.0	+02.5	246 37.2	+02.4	247 36.3	+02.5	248 35.4	+02.5	249 34.6	+02.4	10
11	260 40.5	+02.4	261 39.6	+02.5	262 38.8	+02.4	263 37.9	+02.5	264 37.0	+02.5	11
12	275 42.9	+02.5	276 42.1	+02.5	277 41.2	+02.5	278 40.4	+02.4	279 39.5	+02.5	12
13	290 45.4	+02.5	291 44.6	+02.4	292 43.7	+02.5	293 42.8	+02.5	294 42.0	+02.4	13
14	305 47.9	+02.4	306 47.0	+02.5	307 46.2	+02.4	308 45.3	+02.5	309 44.4	+02.5	14
15	320 50.3	+02.5	321 49.5	+02.4	322 48.6	+02.5	323 47.8	+02.4	324 46.9	+02.5	15
16	335 52.8	+02.5	336 51.9	+02.5	337 51.1	+02.4	338 50.2	+02.5	339 49.4	+02.4	16
17	350 55.3	+02.4	351 54.4	+02.5	352 53.5	+02.5	353 52.7	+02.5	354 51.8	+02.5	17
18	5 57.7	+02.5	6 56.9	+02.4	7 56.0	+02.5	8 55.2	+02.4	9 54.3	+02.5	18
19	21 00.2	+02.5	21 59.3	+02.5	22 58.5	+02.4	23 57.6	+02.5	24 56.8	+02.4	19
20	36 02.7	+02.4	37 01.8	+02.5	38 00.9	+02.5	39 00.1	+02.4	39 59.2	+02.5	20
21	51 05.1	+02.5	52 04.3	+02.4	53 03.4	+02.5	54 02.5	+02.5	55 01.7	+02.4	21
22	66 07.6	+02.5	67 06.7	+02.5	68 05.9	+02.4	69 05.0	+02.5	70 04.1	+02.5	22
23	81 10.1	+02.4	82 09.2	+02.5	83 08.3	+02.5	84 07.5	+02.4	85 06.6	+02.5	23

	SHA ° ,'	Dec ° ,'		SHA ° ,'	Dec ° ,'
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Ankaa	353 08.1	S 42 10.7	Acrux	173 01.1	S 63 13.6
Schedir	349 32.0	N 56 40.4	Gacrux	171 52.7	S 57 14.4
Diphda	348 48.2	S 17 51.5	Alioth	166 13.9	N 55 49.5
Achernar	335 20.7	S 57 07.2	Spica	158 23.3	S 11 17.1
Hamal	327 52.1	N 23 34.7	Alkaid	152 52.8	N 49 11.4
Polaris	314 07.9	N 89 22.2	Hadar	148 37.5	S 60 29.0
Acamar	315 12.1	S 40 12.7	Menkent	147 58.5	S 36 28.8
Menkar	314 06.8	N 04 11.1	Arcturus	145 48.5	N 19 04.1
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Aldebaran	290 40.3	N 16 33.5	Zubenelgenubi	136 57.1	S 16 08.4
Capella	280 22.7	N 46 01.5	Kocab	137 20.5	N 74 03.1
Rigel	281 04.4	S 08 10.4	Alphecca	126 04.8	N 26 38.0
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.4	S 26 29.0
Elnath	278 02.6	N 28 37.8	Atria	107 12.8	S 69 04.1
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.1	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 12.0	S 37 07.2
Canopus	263 52.2	S 52 42.5	Rasalhague	95 59.7	N 12 32.6
Sirius	258 26.4	S 16 44.4	Etamin	90 43.1	N 51 29.1
Adhara	255 06.1	S 29 00.2	Kaus Australis	83 34.1	S 34 22.4
Castor	245 57.7	N 31 50.1	Vega	80 34.3	N 38 48.2
Procyon	244 51.2	N 05 10.2	Nunki	75 49.2	S 26 16.0
Pollux	243 17.6	N 27 58.1	Albireo	67 05.1	N 28 00.6
Avior	234 14.5	S 59 35.0	Altair	62 01.3	N 08 55.7
Suhail	222 46.6	S 43 31.6	Peacock	53 07.6	S 56 39.6
Miaplacidus	221 37.6	S 69 48.7	Deneb	49 26.8	N 45 22.0
Alphard	217 48.4	S 08 45.7	Enif	33 39.9	N 09 59.1
Regulus	207 35.1	N 11 51.0	Alnair	27 34.3	S 46 50.9
Dubhe	193 41.7	N 61 37.0	Formalhaut	15 15.7	S 29 29.9
Denebola	182 25.6	N 14 26.3	Markab	13 30.9	N 15 20.1





**Polaris (Pole Star) Tables, 2023**  
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											
0	0 32.1	0 27.8	0 24.4	0 22.1	0 20.9	0 20.9	0 22.0	0 24.3	0 27.6	0 31.8	0 36.9	0 42.6
1	0 31.6	0 27.4	0 24.2	0 22.0	0 20.9	0 21.0	0 22.2	0 24.5	0 27.9	0 32.3	0 37.4	0 43.3
2	0 31.2	0 27.1	0 23.9	0 21.8	0 20.8	0 21.0	0 22.4	0 24.8	0 28.3	0 32.8	0 38.0	0 43.9
3	0 30.7	0 26.7	0 23.6	0 21.6	0 20.8	0 21.1	0 22.6	0 25.1	0 28.7	0 33.3	0 38.6	0 44.5
4	0 30.3	0 26.3	0 23.4	0 21.5	0 20.8	0 21.2	0 22.8	0 25.5	0 29.2	0 33.8	0 39.1	0 45.1
5	0 29.9	0 26.0	0 23.1	0 21.4	0 20.8	0 21.3	0 23.0	0 25.8	0 29.6	0 34.3	0 39.7	0 45.7
6	0 29.4	0 25.7	0 22.9	0 21.3	0 20.8	0 21.4	0 23.2	0 26.1	0 30.0	0 34.8	0 40.3	0 46.3
7	0 29.0	0 25.3	0 22.7	0 21.2	0 20.8	0 21.6	0 23.5	0 26.5	0 30.4	0 35.3	0 40.9	0 47.0
8	0 28.6	0 25.0	0 22.5	0 21.1	0 20.8	0 21.7	0 23.7	0 26.8	0 30.9	0 35.8	0 41.5	0 47.6
9	0 28.2	0 24.7	0 22.3	0 21.0	0 20.8	0 21.9	0 24.0	0 27.2	0 31.3	0 36.4	0 42.0	0 48.3
Lat.	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	0.7	0.7	0.8	0.9	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	1.0
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	1.0	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	1.1
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	1.0	1.1	1.1
64	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.9	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	0.8	0.9	1.0	1.2	1.3
70	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3
Month	a2											
Jan	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3
Feb	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5
Mar	0.6	0.6	0.7	0.7	0.7	0.7	0.7	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	0.7
May	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	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	0.7
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	0.5	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	0.2	0.1
Lat.	Zo											
10	0.4	0.3	0.2	0.1	0.0	359.9	359.8	359.7	359.6	359.5	359.4	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	359.4	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	359.8	359.7	359.5	359.4	359.3	359.2	359.2
50	0.6	0.5	0.3	0.2	0.0	359.8	359.7	359.5	359.4	359.2	359.1	359.1
55	0.7	0.6	0.4	0.2	0.0	359.8	359.6	359.4	359.3	359.1	359.0	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	0.2	0.0	359.8	359.5	359.3	359.1	359.0	358.8	358.7
64	1.0	0.7	0.5	0.3	0.0	359.8	359.5	359.3	359.1	358.9	358.7	358.6
66	1.0	0.8	0.6	0.3	0.0	359.7	359.5	359.2	359.0	358.8	358.6	358.5
68	1.1	0.9	0.6	0.3	0.0	359.7	359.4	359.1	358.9	358.7	358.5	358.4
70	1.2	1.0	0.7	0.3	0.0	359.7	359.4	359.1	358.8	358.6	358.4	358.2

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, 2023**  
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 . ,											
<b>0</b>	0 48.9	0 55.5	1 02.1	1 08.7	1 15.0	1 20.8	1 25.9	1 30.2	1 33.6	1 35.9	1 37.1	1 37.1
<b>1</b>	0 49.5	0 56.1	1 02.8	1 09.3	1 15.6	1 21.3	1 26.4	1 30.6	1 33.8	1 36.0	1 37.1	1 37.0
<b>2</b>	0 50.2	0 56.8	1 03.4	1 10.0	1 16.2	1 21.8	1 26.8	1 30.9	1 34.1	1 36.2	1 37.2	1 37.0
<b>3</b>	0 50.8	0 57.4	1 04.1	1 10.6	1 16.8	1 22.4	1 27.3	1 31.3	1 34.4	1 36.4	1 37.2	1 36.9
<b>4</b>	0 51.5	0 58.1	1 04.8	1 11.2	1 17.3	1 22.9	1 27.7	1 31.7	1 34.6	1 36.5	1 37.2	1 36.8
<b>5</b>	0 52.1	0 58.8	1 05.4	1 11.9	1 17.9	1 23.4	1 28.1	1 32.0	1 34.9	1 36.6	1 37.2	1 36.7
<b>6</b>	0 52.8	0 59.5	1 06.1	1 12.5	1 18.5	1 23.9	1 28.6	1 32.3	1 35.1	1 36.7	1 37.2	1 36.6
<b>7</b>	0 53.5	1 00.1	1 06.7	1 13.1	1 19.1	1 24.4	1 29.0	1 32.7	1 35.3	1 36.8	1 37.2	1 36.4
<b>8</b>	0 54.1	1 00.8	1 07.4	1 13.7	1 19.6	1 24.9	1 29.4	1 33.0	1 35.5	1 36.9	1 37.2	1 36.3
<b>9</b>	0 54.8	1 01.5	1 08.0	1 14.4	1 20.2	1 25.4	1 29.8	1 33.3	1 35.7	1 37.0	1 37.2	1 36.1
<b>Lat.</b>	a1 ,											
<b>10</b>	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5
<b>20</b>	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5
<b>30</b>	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.5
<b>40</b>	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.6	0.6	0.5
<b>45</b>	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.5
<b>50</b>	1.1	1.1	1.1	1.1	1.0	0.9	0.9	0.8	0.7	0.6	0.6	0.5
<b>55</b>	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5
<b>60</b>	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
<b>62</b>	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
<b>64</b>	1.2	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
<b>66</b>	1.3	1.3	1.3	1.3	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5
<b>68</b>	1.3	1.4	1.3	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.6	0.5
<b>70</b>	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.6	0.5
<b>Month</b>	a2 ,											
<b>Jan</b>	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
<b>Feb</b>	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
<b>Mar</b>	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
<b>Apr</b>	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
<b>May</b>	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.4
<b>Jun</b>	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5
<b>Jul</b>	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
<b>Aug</b>	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
<b>Sep</b>	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8
<b>Oct</b>	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.7
<b>Nov</b>	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6
<b>Dec</b>	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4
<b>Lat.</b>	Zo . ,											
<b>10</b>	359.4	359.4	359.4	359.4	359.4	359.5	359.6	359.7	359.8	359.9	360.0	0.1
<b>20</b>	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.8	359.9	360.0	0.1
<b>30</b>	359.3	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.9	360.0	0.1
<b>40</b>	359.2	359.2	359.2	359.2	359.3	359.4	359.5	359.6	359.7	359.9	360.0	0.1
<b>45</b>	359.1	359.1	359.1	359.2	359.2	359.3	359.4	359.5	359.7	359.8	360.0	0.1
<b>50</b>	359.0	359.0	359.0	359.1	359.1	359.2	359.4	359.5	359.7	359.8	360.0	0.2
<b>55</b>	358.9	358.9	358.9	359.0	359.0	359.2	359.3	359.4	359.6	359.8	360.0	0.2
<b>60</b>	358.7	358.7	358.7	358.8	358.9	359.0	359.2	359.4	359.6	359.8	360.0	0.2
<b>62</b>	358.7	358.6	358.7	358.7	358.8	359.0	359.1	359.3	359.5	359.8	360.0	0.2
<b>64</b>	358.6	358.5	358.6	358.6	358.8	358.9	359.1	359.3	359.5	359.7	360.0	0.2
<b>66</b>	358.5	358.4	358.5	358.5	358.7	358.8	359.0	359.2	359.5	359.7	360.0	0.3
<b>68</b>	358.3	358.3	358.3	358.4	358.5	358.7	358.9	359.2	359.4	359.7	360.0	0.3
<b>70</b>	358.2	358.1	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.

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**Polaris (Pole Star) Tables, 2023**  
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 . ,											
<b>0</b>	1 36.0	1 33.7	1 30.4	1 26.2	1 21.1	1 15.4	1 09.1	1 02.5	0 55.9	0 49.3	0 43.0	0 37.2
<b>1</b>	1 35.8	1 33.5	1 30.1	1 25.7	1 20.6	1 14.7	1 08.5	1 01.9	0 55.2	0 48.7	0 42.4	0 36.7
<b>2</b>	1 35.6	1 33.2	1 29.7	1 25.2	1 20.0	1 14.1	1 07.8	1 01.2	0 54.6	0 48.0	0 41.8	0 36.2
<b>3</b>	1 35.4	1 32.9	1 29.3	1 24.7	1 19.4	1 13.5	1 07.2	1 00.6	0 53.9	0 47.4	0 41.2	0 35.6
<b>4</b>	1 35.2	1 32.5	1 28.8	1 24.2	1 18.9	1 12.9	1 06.5	0 59.9	0 53.2	0 46.8	0 40.7	0 35.1
<b>5</b>	1 35.0	1 32.2	1 28.4	1 23.7	1 18.3	1 12.3	1 05.9	0 59.2	0 52.6	0 46.1	0 40.1	0 34.6
<b>6</b>	1 34.8	1 31.9	1 28.0	1 23.2	1 17.7	1 11.7	1 05.2	0 58.5	0 51.9	0 45.5	0 39.5	0 34.1
<b>7</b>	1 34.5	1 31.5	1 27.6	1 22.7	1 17.1	1 11.0	1 04.5	0 57.9	0 51.3	0 44.9	0 38.9	0 33.6
<b>8</b>	1 34.3	1 31.2	1 27.1	1 22.2	1 16.5	1 10.4	1 03.9	0 57.2	0 50.6	0 44.3	0 38.4	0 33.1
<b>9</b>	1 34.0	1 30.8	1 26.7	1 21.6	1 16.0	1 09.7	1 03.2	0 56.5	0 50.0	0 43.6	0 37.8	0 32.6
<b>Lat.</b>	a1 ,											
<b>10</b>	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>20</b>	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3
<b>30</b>	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
<b>40</b>	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
<b>45</b>	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
<b>50</b>	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>55</b>	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
<b>60</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
<b>62</b>	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5
<b>64</b>	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
<b>66</b>	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
<b>68</b>	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.5
<b>70</b>	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.6
<b>Month</b>	a2 ,											
<b>Jan</b>	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
<b>Feb</b>	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
<b>Mar</b>	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5
<b>Apr</b>	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4
<b>May</b>	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
<b>Jun</b>	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Jul</b>	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1
<b>Aug</b>	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
<b>Sep</b>	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3
<b>Oct</b>	0.7	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5
<b>Nov</b>	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7
<b>Dec</b>	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
<b>Lat.</b>	Zo . ,											
<b>10</b>	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
<b>20</b>	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5
<b>30</b>	0.2	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6
<b>40</b>	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.6
<b>45</b>	0.3	0.4	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.7
<b>50</b>	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.8
<b>55</b>	0.4	0.5	0.7	0.8	1.0	1.0	1.1	1.1	1.1	1.1	1.0	0.9
<b>60</b>	0.4	0.6	0.8	1.0	1.1	1.2	1.2	1.3	1.3	1.2	1.1	1.0
<b>62</b>	0.4	0.7	0.9	1.0	1.2	1.3	1.3	1.4	1.3	1.3	1.2	1.1
<b>64</b>	0.5	0.7	0.9	1.1	1.2	1.4	1.4	1.5	1.4	1.4	1.3	1.1
<b>66</b>	0.5	0.8	1.0	1.2	1.3	1.5	1.5	1.6	1.6	1.5	1.4	1.2
<b>68</b>	0.6	0.8	1.1	1.3	1.4	1.6	1.7	1.7	1.7	1.6	1.5	1.3
<b>70</b>	0.6	0.9	1.2	1.4	1.6	1.7	1.8	1.9	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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