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Nautical Almanac (Selected Stars)

2024

Star Maps

The Nautical Almanac 2024 (Selected Stars)

Polaris Tables 2024

Revision V0.6 - Nov 2018

Warning and Terms of Usage:

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

Use this Nautical Almanac only for training and exercising!

Compiled by Erik De Man (mail2erik@siranah.de) on Wed Nov 8 14:17:33 2023

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 : 69.2 s	Oct : 69.1 s
Feb : 69.2 s	May : 69.2 s	Aug : 69.2 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	°	'	["/yr]	["/yr]	["]	[km/s]
Alpheratz	00	08	23.3	N 29	05.4	0.135680	-0.162950	0.034	-11
Ankaa	00	26	17.0	S 42	18.4	0.233050	-0.356300	0.039	75
Schedir	00	40	30.4	N 56	32.2	0.050360	-0.032170	0.014	-4
Diphda	00	43	35.4	S 17	59.2	0.232550	0.031990	0.034	13
Achernar	01	37	42.8	S 57	14.2	0.088020	-0.038240	0.023	16
Hamal	02	07	10.4	N 23	27.7	0.190730	-0.145770	0.049	-14
Polaris	02	31	49.1	N 89	15.8	0.044480	-0.011850	0.008	-17
Acamar	02	58	15.7	S 40	18.3	-0.044600	-0.019000	0.028	12
Menkar	03	02	16.8	N 04	05.4	-0.010410	-0.076850	0.013	-26
Mirfak	03	24	19.4	N 49	51.7	0.024110	-0.026010	0.005	-2
Aldebaran	04	35	55.2	N 16	30.6	0.063000	-0.190000	0.050	54
Capella	05	16	41.4	N 45	59.9	0.075520	-0.427110	0.077	29
Rigel	05	14	32.3	S 08	12.1	0.001870	-0.000560	0.004	21
Bellatrix	05	25	07.9	N 06	21.0	-0.008750	-0.013280	0.013	18
Elnath	05	26	17.5	N 28	36.5	0.023280	-0.174220	0.025	9
Alnilam	05	36	12.8	S 01	12.1	0.001490	-0.001060	0.002	26
Betelgeuze	05	55	10.3	N 07	24.4	0.024950	0.009560	0.005	22
Canopus	06	23	57.1	S 52	41.7	0.019990	0.023670	0.010	21
Sirius	06	45	08.9	S 16	43.0	-0.546050	-1.223140	0.379	-8
Adhara	06	58	37.6	S 28	58.3	0.002600	0.002290	0.008	27
Castor	07	34	36.0	N 31	53.3	-0.206330	-0.148180	0.066	5
Procyon	07	39	18.1	N 05	13.5	-0.716570	-1.034580	0.286	-3
Pollux	07	45	19.4	N 28	01.6	-0.625690	-0.045950	0.097	3
Avior	08	22	30.8	S 59	30.6	-0.025340	0.022720	0.005	2
Suhail	09	07	59.8	S 43	25.9	-0.023210	0.014280	0.006	18
Miaplacidus	09	13	12.0	S 69	43.0	-0.157660	0.108910	0.029	-5
Alphard	09	27	35.2	S 08	39.5	-0.014500	0.033250	0.018	-4
Regulus	10	08	22.3	N 11	58.0	0.249000	0.002000	0.042	6
Dubhe	11	03	43.7	N 61	45.0	-0.136460	-0.035250	0.026	-9
Denebola	11	49	03.6	N 14	34.3	-0.499020	-0.113780	0.090	0
Gienah	12	15	48.4	S 17	32.5	-0.161000	0.023000	0.020	-4
Acruz	12	26	35.9	S 63	05.9	-0.035370	-0.014730	0.010	-11
Gacrux	12	31	09.9	S 57	06.8	0.027940	-0.264330	0.037	21
Alioth	12	54	01.6	N 55	57.6	0.112000	-0.009000	0.040	-9
Spica	13	25	11.6	S 11	09.7	-0.042500	-0.031730	0.012	1
Alkaid	13	47	32.4	N 49	18.8	-0.122000	-0.015600	0.032	-11
Hadar	14	03	49.4	S 60	22.4	-0.033960	-0.025060	0.009	6
Menkent	14	06	41.3	S 36	22.1	-0.519290	-0.517870	0.053	1
Arcturus	14	15	39.7	N 19	10.9	-1.093450	-1.999400	0.089	5
Rigel Kentaurus	14	39	36.5	S 60	50.0	-3.678190	0.481840	0.747	-22
Zubenelgenubi	14	50	52.8	S 16	02.5	-0.106000	-0.067000	0.058	-10
Kocab	14	50	42.3	N 74	09.3	-0.032290	0.011910	0.026	17
Alphecca	15	34	41.3	N 26	42.9	0.120380	-0.089440	0.044	2
Antares	16	29	24.0	S 26	25.9	-0.010160	-0.023210	0.005	-3
Atria	16	48	39.9	S 69	01.7	0.017850	-0.032920	0.008	-3
Sabik	17	10	22.7	S 15	43.5	0.041160	0.097650	0.039	-2
Shaula	17	33	36.5	S 37	06.2	-0.008900	-0.029950	0.005	-3
Rasalhague	17	34	56.1	N 12	33.6	0.110080	-0.222610	0.070	13
Etamin	17	56	36.4	N 51	29.3	-0.008480	-0.022790	0.021	-28
Kaus Australis	18	24	10.3	S 34	23.1	-0.039420	-0.124200	0.023	-15
Vega	18	36	56.3	N 38	47.0	0.201030	0.287470	0.129	-14
Nunki	18	55	15.9	S 26	17.8	0.015140	-0.053430	0.014	-11
Albireo	19	30	43.3	N 27	57.6	0.005000	0.006000	0.009	-24
Altair	19	50	47.0	N 08	52.1	0.536870	0.385570	0.194	-26
Peacock	20	25	38.9	S 56	44.1	0.007710	-0.086150	0.018	2
Deneb	20	41	25.9	N 45	16.8	0.001990	0.001950	0.002	-5
Enif	21	44	11.2	N 09	52.5	0.030020	-0.001380	0.005	3
Alnair	22	08	14.0	S 46	57.7	0.128000	-0.148000	0.032	11
Formalhaut	22	57	39.0	S 29	37.3	0.329220	-0.164220	0.131	7
Markab	23	04	45.6	N 15	12.3	0.060400	-0.041300	0.024	-4

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

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

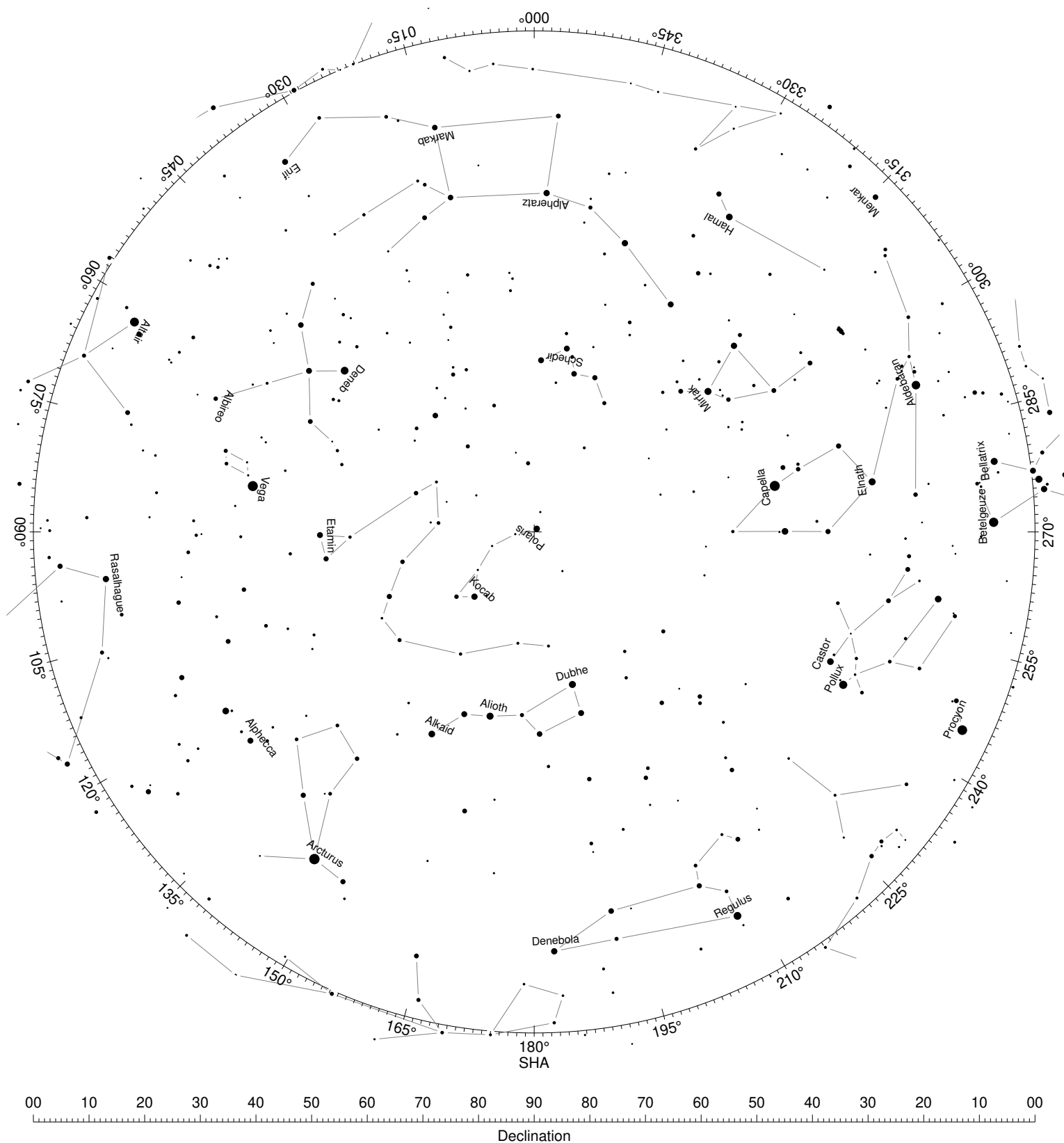
Position of the Stars on the local hemisphere

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

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

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

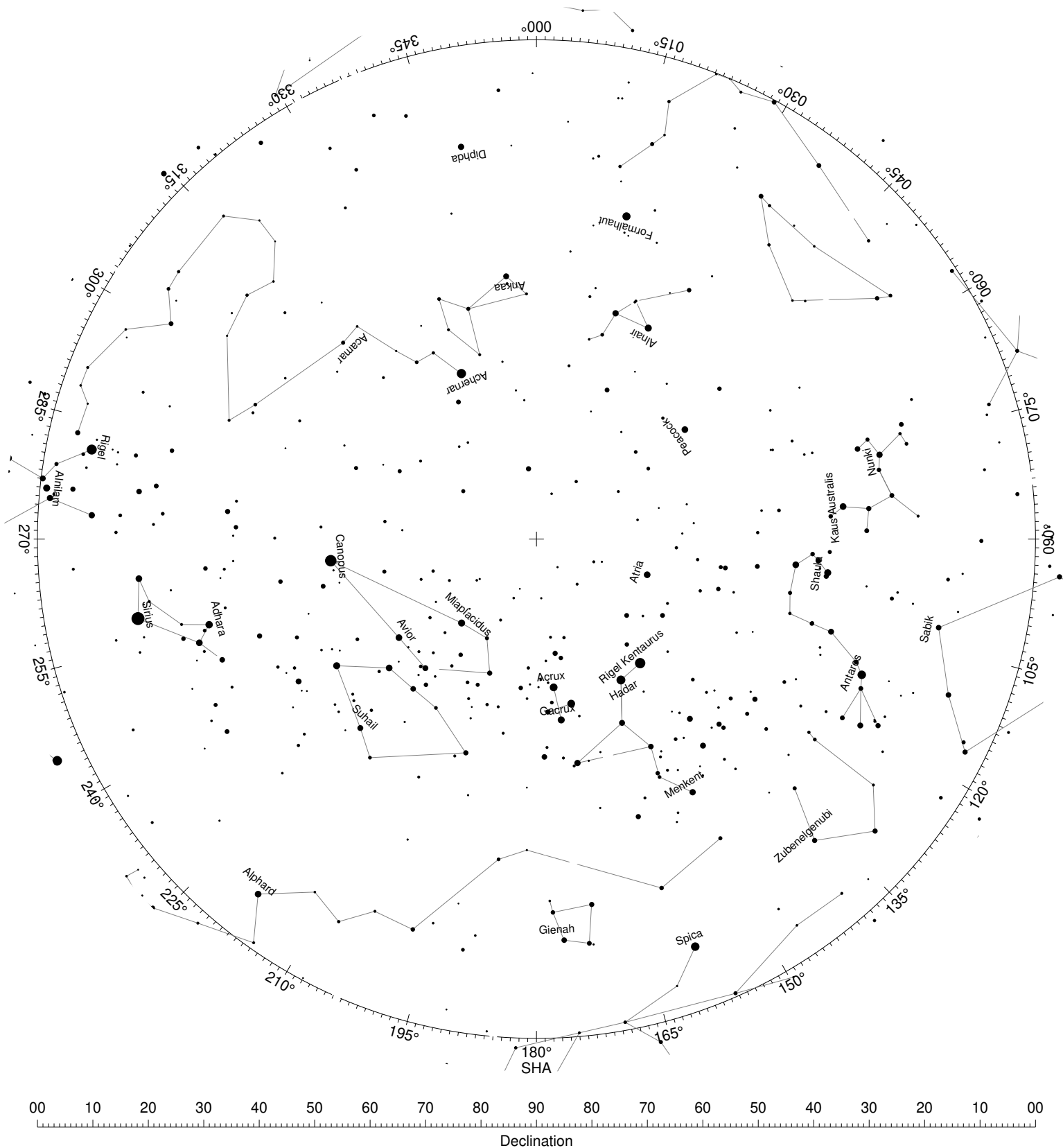
Map of bright Stars of the Northern Celestial Sphere



The map is centered on the celestial north pole and shows the brightest stars (up to magnitude 4.5) of the northern celestial hemisphere. The circle of constant declination is shown at 00° (Celestial Equator).

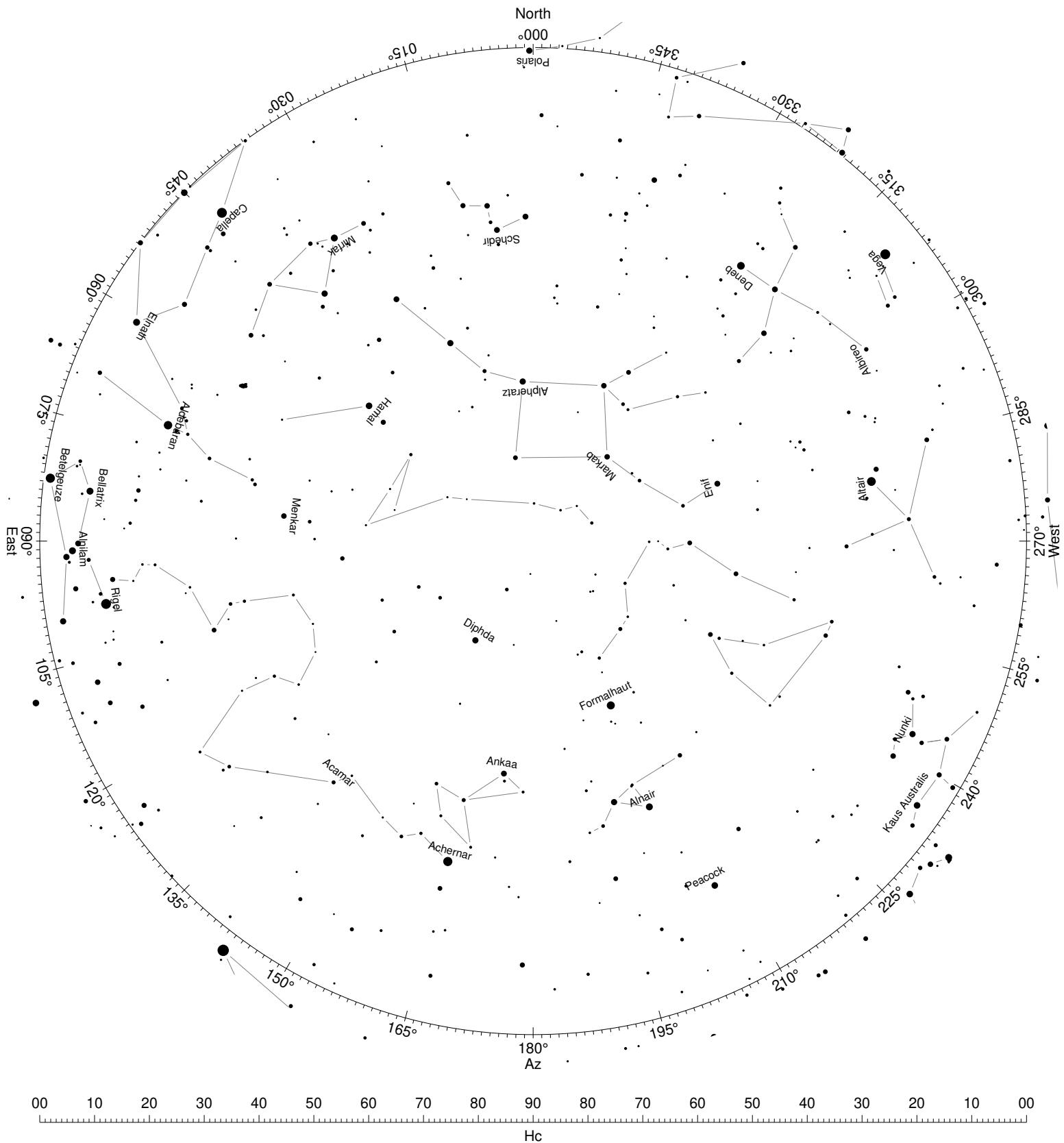
The Sidereal Hour Angle of a specific star can be directly read from the SHA scale plotted on the Celestial Equator, while, the Declination can be determined by transferring the distance from the star to the center of the map onto the separate Declination scale. The Sidereal Hour Angle is zero for the "First-Point-of-Aries" and increases westward.

Map of bright Stars of the Southern Celestial Sphere



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

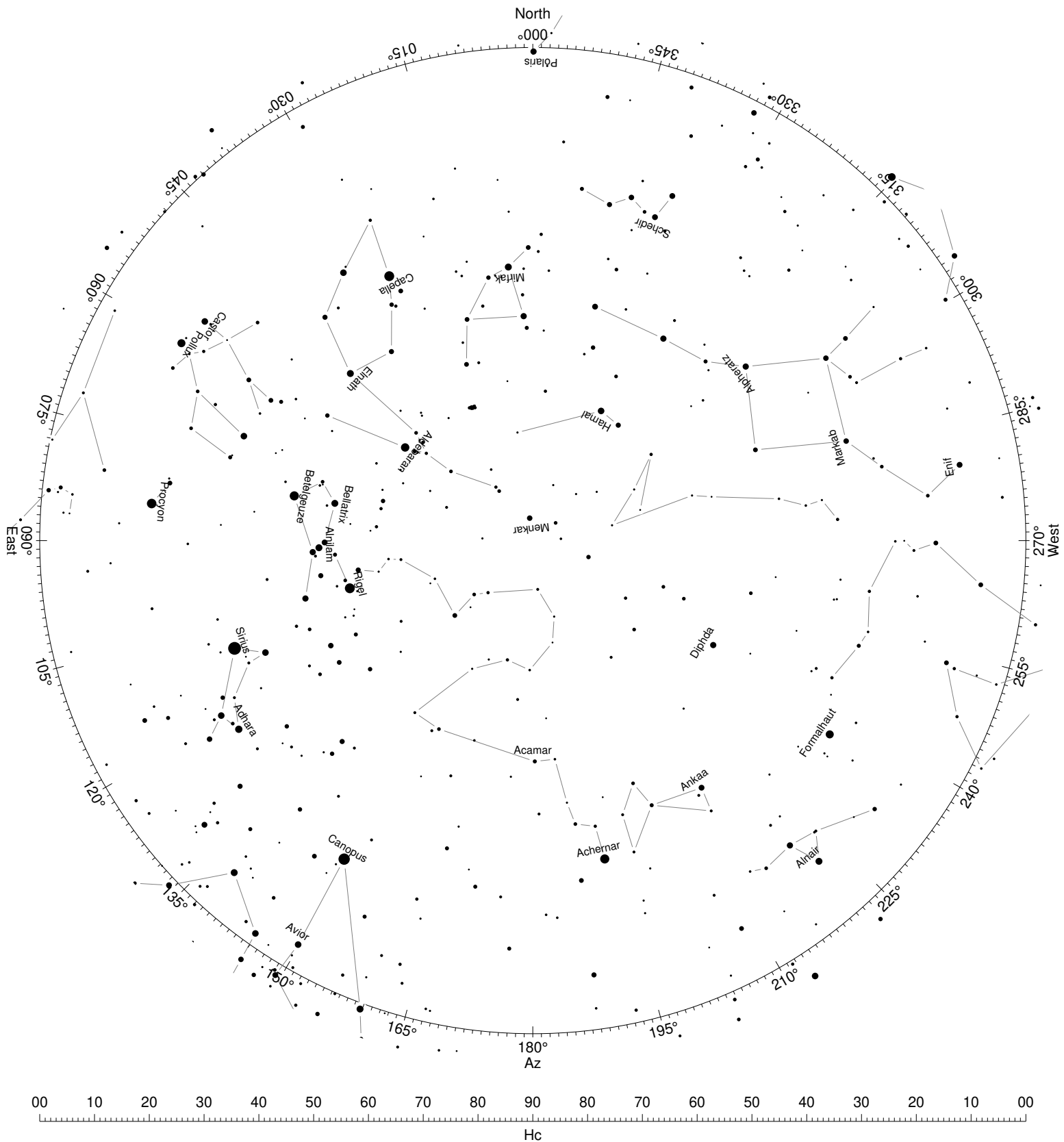
Horizontal-Coordinate-System Map of bright Stars - Part I



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

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

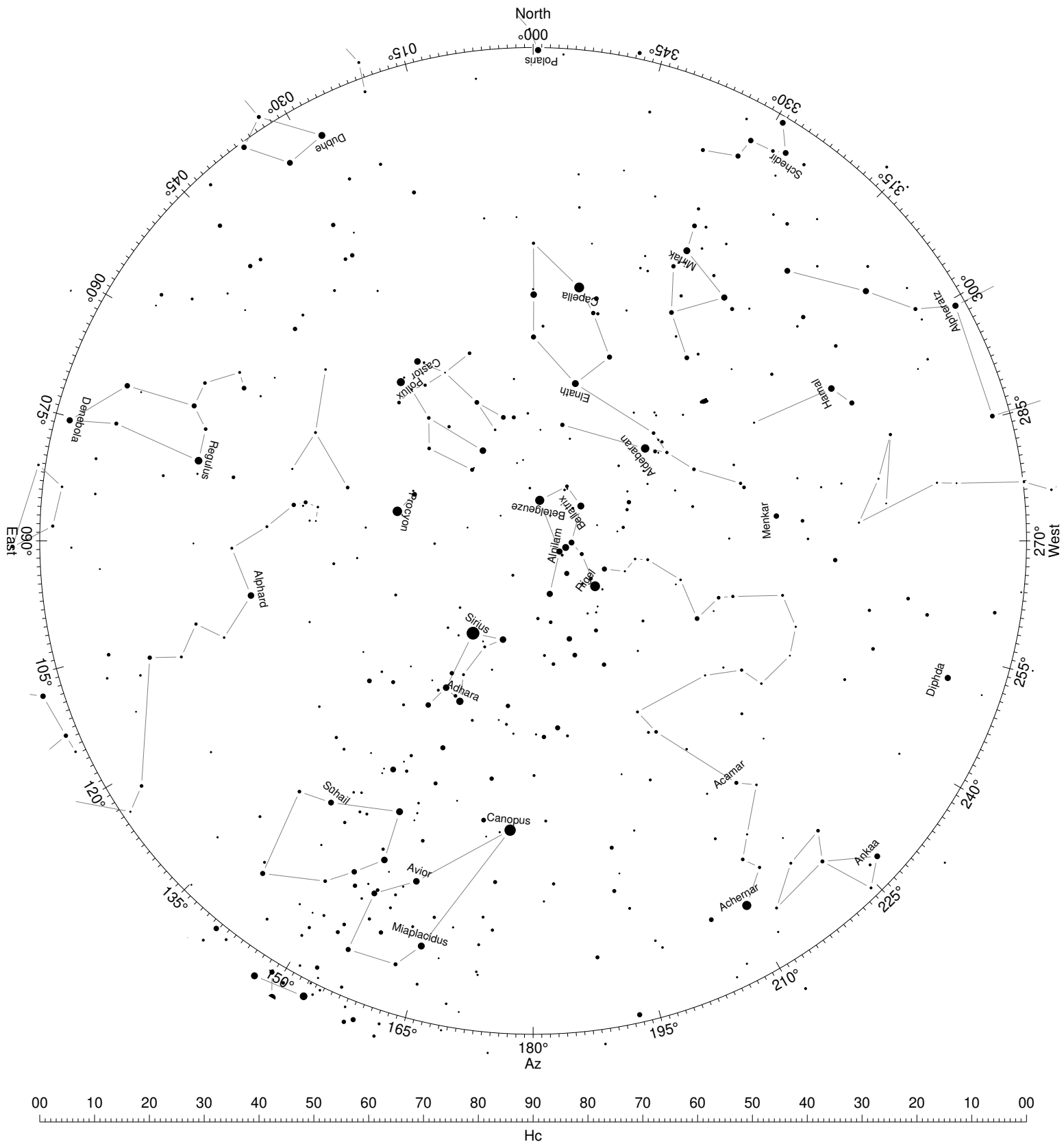
Horizontal-Coordinate-System Map of bright Stars - Part II



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

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

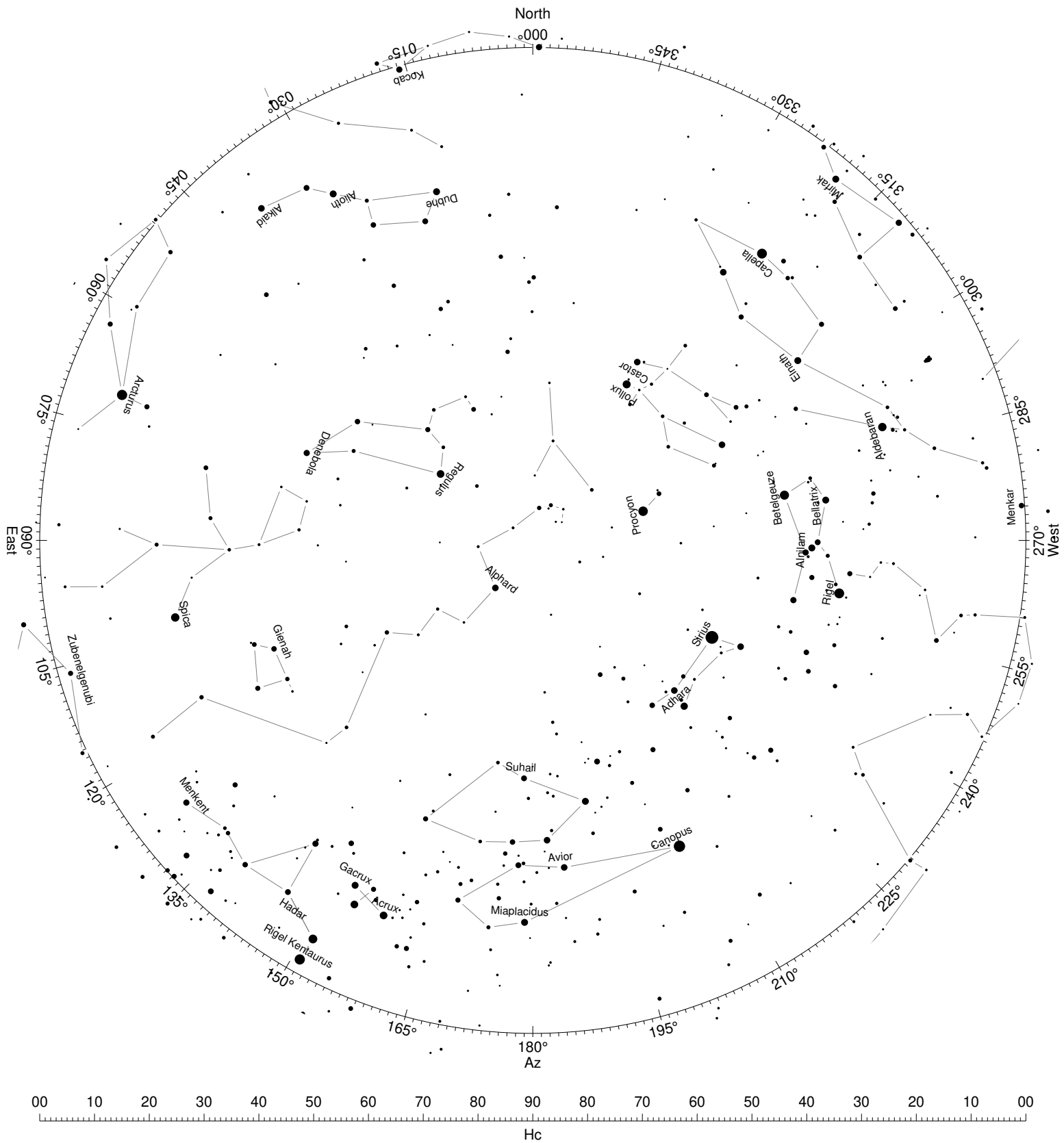
Horizontal-Coordinate-System Map of bright Stars - Part III



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

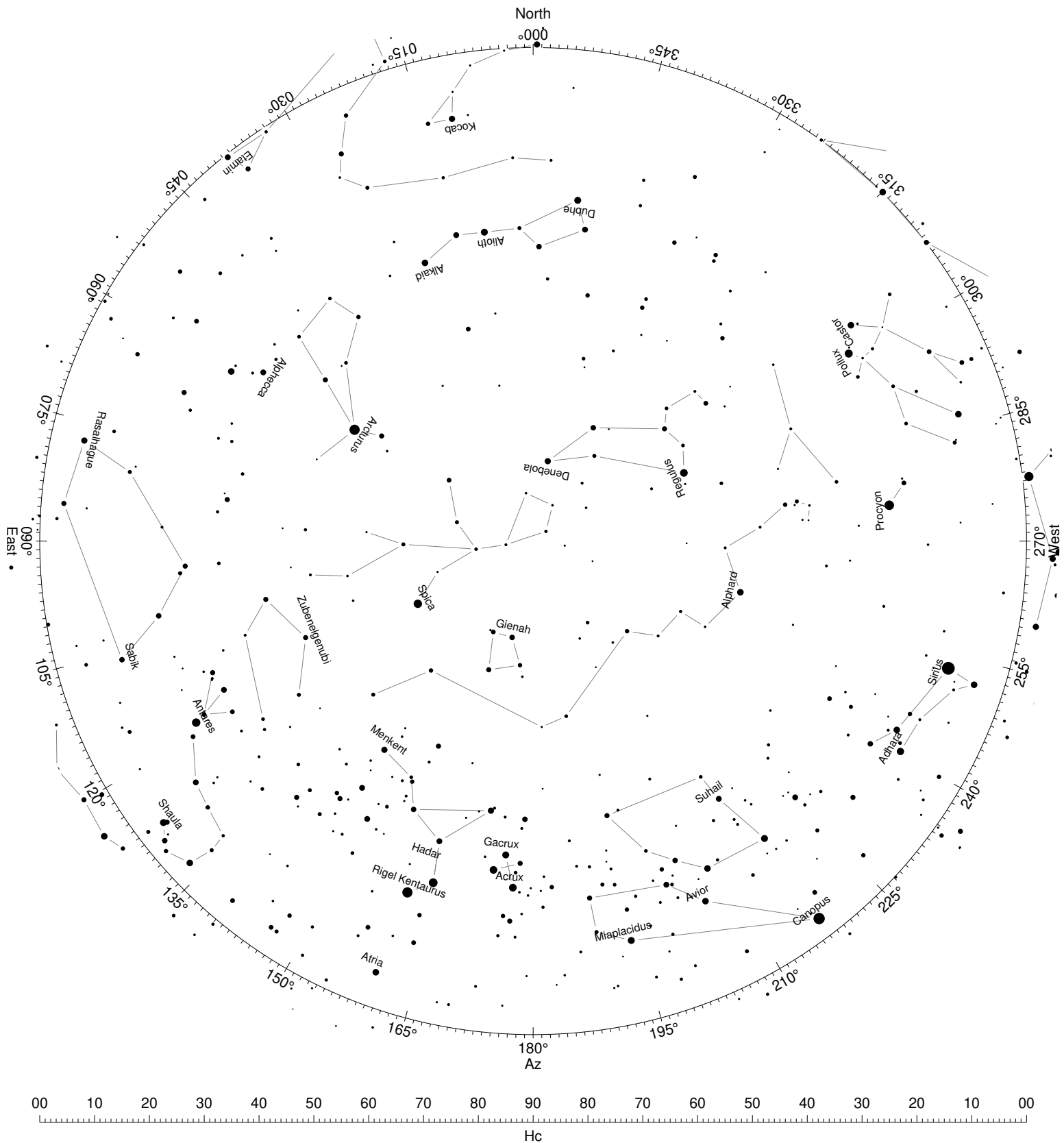
Each of these maps is valid for a location on the equator at a specific time of the day.

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



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

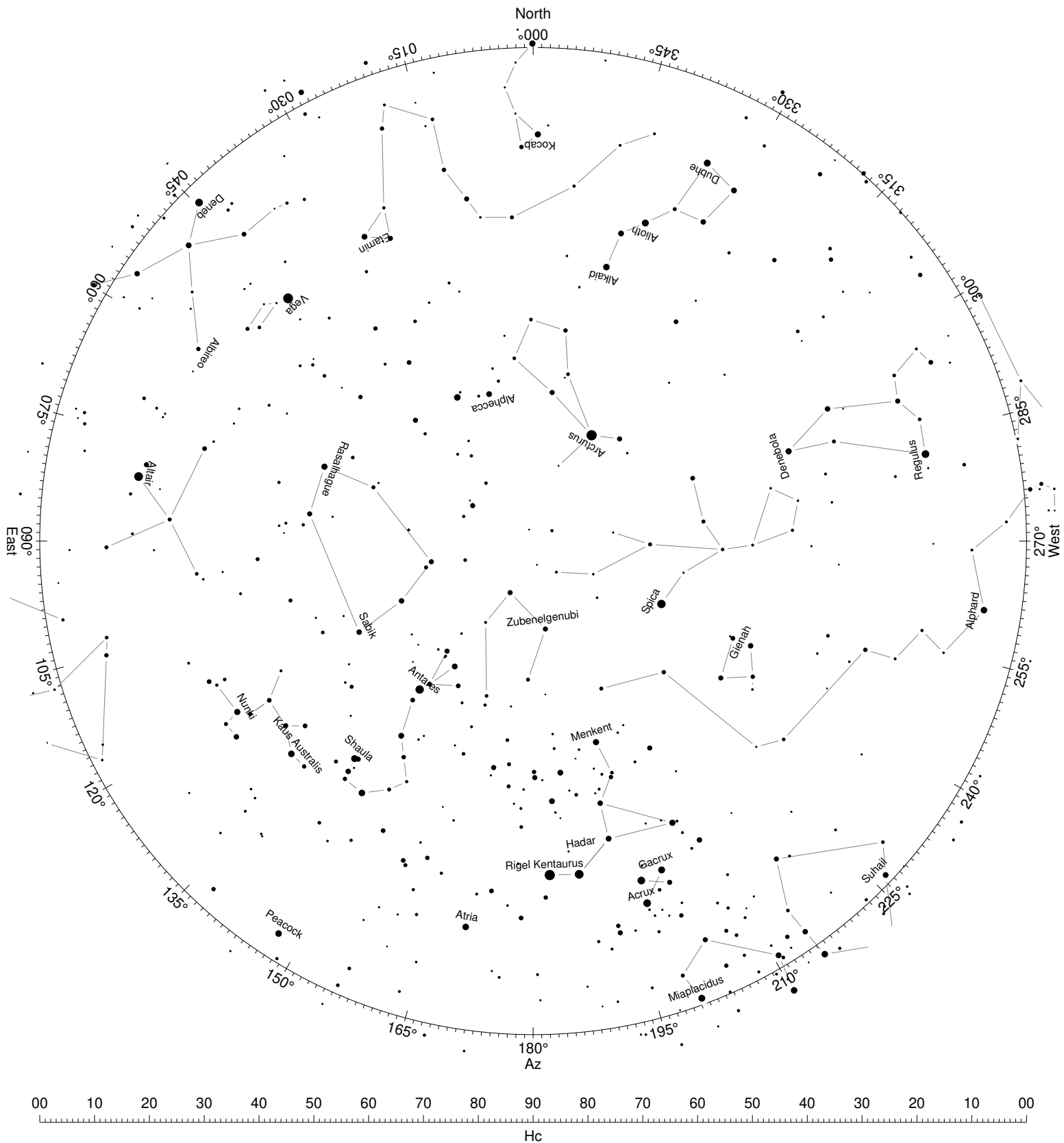
Horizontal-Coordinate-System Map of bright Stars - Part V



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

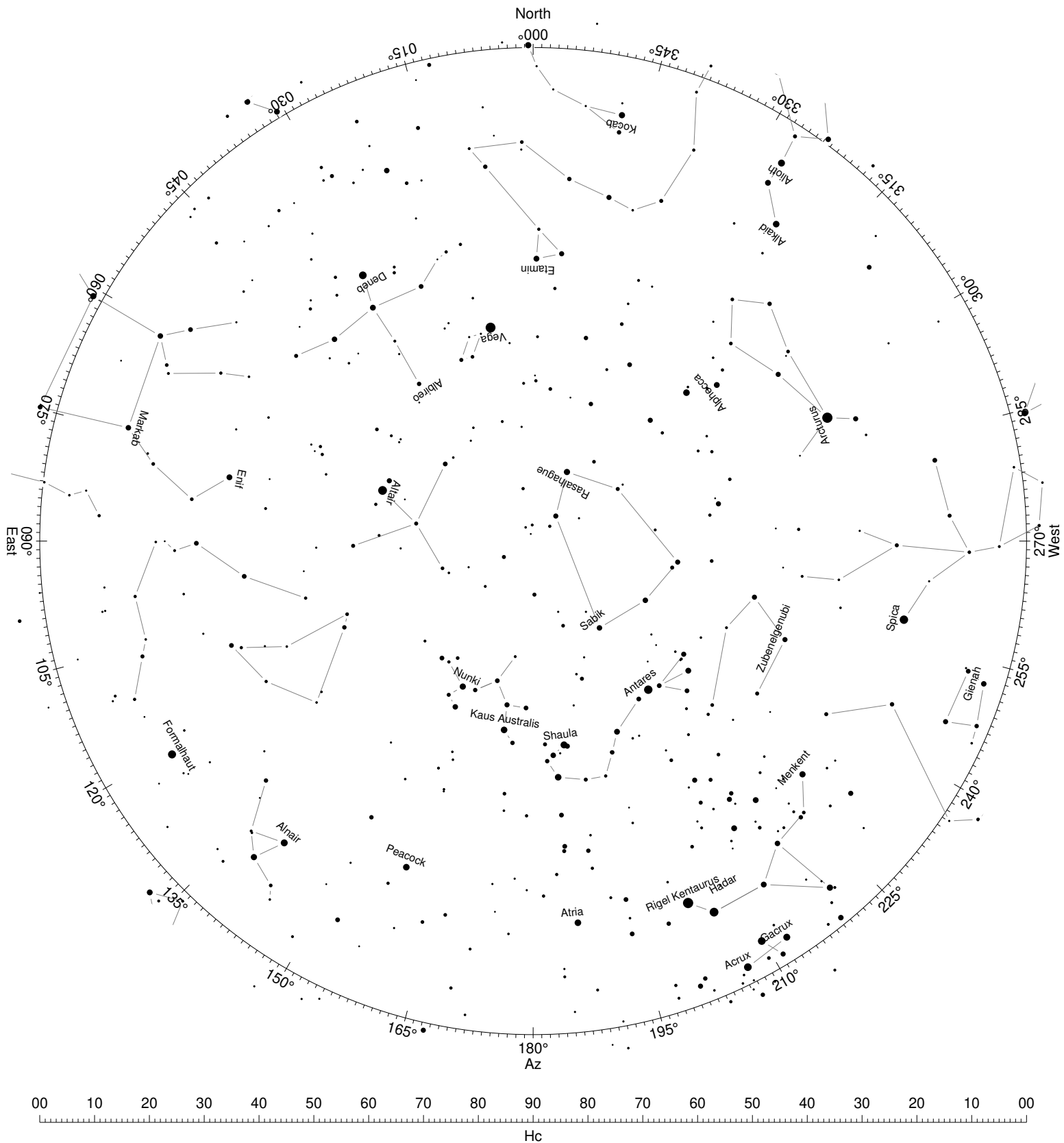
Each of these maps is valid for a location on the equator at a specific time of the day.

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



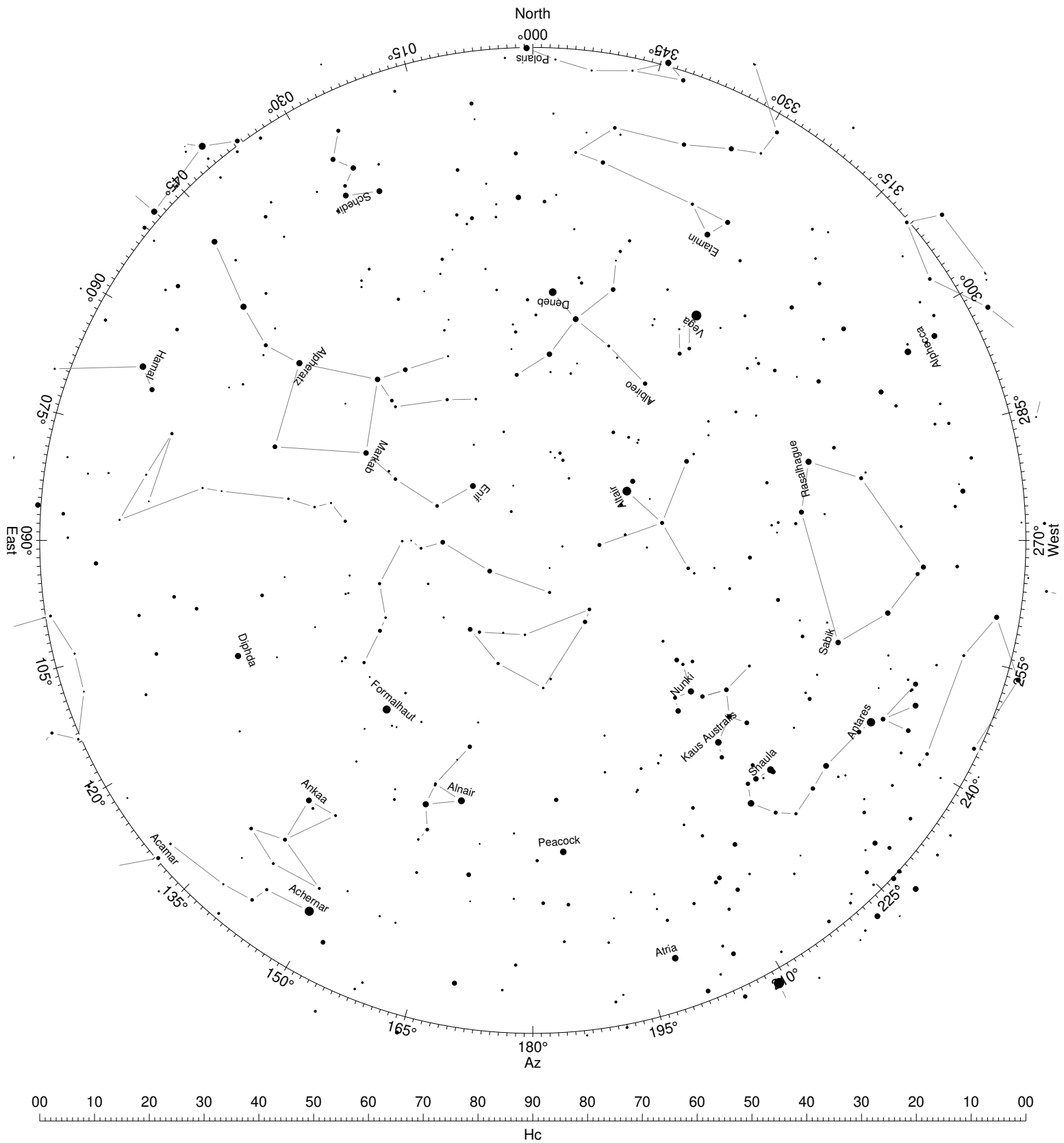
The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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

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



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

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



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

Nautical Almanac for selected Stars

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

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

NOTICE:

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

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

Abbreviations used in the Almanac tables:

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

2024 - First Point of Aries / Selected Stars

UT	day 1 of 366			day 2 of 366			day 3 of 366			day 4 of 366			day 5 of 366			UT
	<i>January 1</i>			<i>January 2</i>			<i>January 3</i>			<i>January 4</i>			<i>January 5</i>			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	100	09.1	+02.4	101	08.2	+02.5	102	07.4	+02.4	103	06.5	+02.5	104	05.6	+02.5	00
01	115	11.5	+02.5	116	10.7	+02.4	117	09.8	+02.5	118	09.0	+02.4	119	08.1	+02.5	01
02	130	14.0	+02.5	131	13.1	+02.5	132	12.3	+02.4	133	11.4	+02.5	134	10.6	+02.4	02
03	145	16.5	+02.4	146	15.6	+02.5	147	14.7	+02.5	148	13.9	+02.4	149	13.0	+02.5	03
04	160	18.9	+02.5	161	18.1	+02.4	162	17.2	+02.5	163	16.3	+02.5	164	15.5	+02.4	04
05	175	21.4	+02.5	176	20.5	+02.5	177	19.7	+02.4	178	18.8	+02.5	179	17.9	+02.5	05
06	190	23.9	+02.4	191	23.0	+02.5	192	22.1	+02.5	193	21.3	+02.4	194	20.4	+02.5	06
07	205	26.3	+02.5	206	25.5	+02.4	207	24.6	+02.5	208	23.7	+02.5	209	22.9	+02.4	07
08	220	28.8	+02.5	221	27.9	+02.5	222	27.1	+02.4	223	26.2	+02.5	224	25.3	+02.5	08
09	235	31.3	+02.4	236	30.4	+02.5	237	29.5	+02.5	238	28.7	+02.4	239	27.8	+02.5	09
10	250	33.7	+02.5	251	32.9	+02.4	252	32.0	+02.5	253	31.1	+02.5	254	30.3	+02.4	10
11	265	36.2	+02.4	266	35.3	+02.5	267	34.5	+02.4	268	33.6	+02.5	269	32.7	+02.5	11
12	280	38.6	+02.5	281	37.8	+02.4	282	36.9	+02.5	283	36.1	+02.4	284	35.2	+02.5	12
13	295	41.1	+02.5	296	40.2	+02.5	297	39.4	+02.4	298	38.5	+02.5	299	37.7	+02.4	13
14	310	43.6	+02.4	311	42.7	+02.5	312	41.8	+02.5	313	41.0	+02.5	314	40.1	+02.5	14
15	325	46.0	+02.5	326	45.2	+02.4	327	44.3	+02.5	328	43.5	+02.4	329	42.6	+02.5	15
16	340	48.5	+02.5	341	47.6	+02.5	342	46.8	+02.4	343	45.9	+02.5	344	45.1	+02.4	16
17	355	51.0	+02.4	356	50.1	+02.5	357	49.2	+02.5	358	48.4	+02.4	359	47.5	+02.5	17
18	10	53.4	+02.5	11	52.6	+02.4	12	51.7	+02.5	13	50.8	+02.5	14	50.0	+02.4	18
19	25	55.9	+02.5	26	55.0	+02.5	27	54.2	+02.4	28	53.3	+02.5	29	52.4	+02.5	19
20	40	58.4	+02.4	41	57.5	+02.5	42	56.6	+02.5	43	55.8	+02.4	44	54.9	+02.5	20
21	56	00.8	+02.5	56	60.0	+02.4	57	59.1	+02.5	58	58.2	+02.5	59	57.4	+02.4	21
22	71	03.3	+02.5	72	02.4	+02.5	73	01.6	+02.4	74	00.7	+02.5	74	59.8	+02.5	22
23	86	05.8	+02.4	87	04.9	+02.5	88	04.0	+02.5	89	03.2	+02.4	90	02.3	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.8	N 29 13.6	Gienah	175 44.4	S 17 40.4
Ankaa	353 08.1	S 42 10.7	Acrux	173 01.0	S 63 13.6
Schedir	349 32.0	N 56 40.4	Gacrux	171 52.6	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 09.7	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 11.0	Arcturus	145 48.4	N 19 04.1
Mirfak	308 29.1	N 49 56.9	Rigel Kentaurus	139 39.0	S 60 56.0
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 20.4	N 74 03.1
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.8	N 26 37.9
Bellatrix	278 23.4	N 06 22.3	Antares	112 17.3	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 11.9	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 29.0
Adhara	255 06.1	S 29 00.2	Kaus Australis	83 34.0	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 37.5	S 69 48.7	Deneb	49 26.8	N 45 22.0
Alphard	217 48.3	S 08 45.7	Enif	33 39.9	N 09 59.1
Regulus	207 35.0	N 11 51.0	Alnair	27 34.3	S 46 50.9
Dubhe	193 41.6	N 61 37.0	Formalhaut	15 15.7	S 29 29.9
Denebola	182 25.6	N 14 26.2	Markab	13 30.9	N 15 20.1

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UT	day 6 of 366		day 7 of 366		day 8 of 366		day 9 of 366		day 10 of 366		UT					
	<i>January 6</i>		<i>January 7</i>		<i>January 8</i>		<i>January 9</i>		<i>January 10</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	105	04.8	+02.4	106	03.9	+02.5	107	03.0	+02.5	108	02.2	+02.5	109	01.3	+02.5	00
01	120	07.2	+02.5	121	06.4	+02.4	122	05.5	+02.5	123	04.7	+02.4	124	03.8	+02.5	01
02	135	09.7	+02.5	136	08.8	+02.5	137	08.0	+02.4	138	07.1	+02.5	139	06.3	+02.4	02
03	150	12.2	+02.4	151	11.3	+02.5	152	10.4	+02.5	153	09.6	+02.4	154	08.7	+02.5	03
04	165	14.6	+02.5	166	13.8	+02.4	167	12.9	+02.5	168	12.0	+02.5	169	11.2	+02.5	04
05	180	17.1	+02.5	181	16.2	+02.5	182	15.4	+02.4	183	14.5	+02.5	184	13.7	+02.4	05
06	195	19.6	+02.4	196	18.7	+02.5	197	17.8	+02.5	198	17.0	+02.4	199	16.1	+02.5	06
07	210	22.0	+02.5	211	21.2	+02.4	212	20.3	+02.5	213	19.4	+02.5	214	18.6	+02.4	07
08	225	24.5	+02.4	226	23.6	+02.5	227	22.8	+02.4	228	21.9	+02.5	229	21.0	+02.5	08
09	240	26.9	+02.5	241	26.1	+02.4	242	25.2	+02.5	243	24.4	+02.4	244	23.5	+02.5	09
10	255	29.4	+02.5	256	28.5	+02.5	257	27.7	+02.5	258	26.8	+02.5	259	26.0	+02.4	10
11	270	31.9	+02.4	271	31.0	+02.5	272	30.2	+02.4	273	29.3	+02.5	274	28.4	+02.5	11
12	285	34.3	+02.5	286	33.5	+02.4	287	32.6	+02.5	288	31.8	+02.4	289	30.9	+02.5	12
13	300	36.8	+02.5	301	35.9	+02.5	302	35.1	+02.4	303	34.2	+02.5	304	33.4	+02.4	13
14	315	39.3	+02.4	316	38.4	+02.5	317	37.5	+02.5	318	36.7	+02.5	319	35.8	+02.5	14
15	330	41.7	+02.5	331	40.9	+02.4	332	40.0	+02.5	333	39.2	+02.4	334	38.3	+02.5	15
16	345	44.2	+02.5	346	43.3	+02.5	347	42.5	+02.4	348	41.6	+02.5	349	40.8	+02.4	16
17	0	46.7	+02.4	1	45.8	+02.5	2	44.9	+02.5	3	44.1	+02.4	4	43.2	+02.5	17
18	15	49.1	+02.5	16	48.3	+02.4	17	47.4	+02.5	18	46.5	+02.5	19	45.7	+02.5	18
19	30	51.6	+02.4	31	50.7	+02.5	32	49.9	+02.4	33	49.0	+02.5	34	48.2	+02.4	19
20	45	54.0	+02.5	46	53.2	+02.5	47	52.3	+02.5	48	51.5	+02.4	49	50.6	+02.5	20
21	60	56.5	+02.5	61	55.7	+02.4	62	54.8	+02.5	63	53.9	+02.5	64	53.1	+02.4	21
22	75	59.0	+02.4	76	58.1	+02.5	77	57.3	+02.4	78	56.4	+02.5	79	55.5	+02.5	22
23	91	01.4	+02.5	92	00.6	+02.4	92	59.7	+02.5	93	58.9	+02.4	94	58.0	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.8	N 29	13.5	Gienah	175	44.3	S 17	40.4
Ankaa	353	08.1	S 42	10.7	Acrux	173	01.0	S 63	13.6
Schedir	349	32.1	N 56	40.4	Gacrux	171	52.6	S 57	14.5
Diphda	348	48.2	S 17	51.5	Alioth	166	13.8	N 55	49.5
Achernar	335	20.7	S 57	07.2	Spica	158	23.2	S 11	17.1
Hamal	327	52.1	N 23	34.7	Alkaid	152	52.7	N 49	11.3
Polaris	314	11.6	N 89	22.2	Hadar	148	37.4	S 60	29.0
Acamar	315	12.1	S 40	12.7	Menkent	147	58.4	S 36	28.8
Menkar	314	06.8	N 04	11.0	Arcturus	145	48.4	N 19	04.1
Mirfak	308	29.1	N 49	57.0	Rigel Kentaurus	139	39.0	S 60	56.0
Aldebaran	290	40.3	N 16	33.5	Zubenelgenubi	136	57.1	S 16	08.4
Capella	280	22.7	N 46	01.6	Kocab	137	20.3	N 74	03.1
Rigel	281	04.4	S 08	10.5	Alphecca	126	04.7	N 26	37.9
Bellatrix	278	23.5	N 06	22.3	Antares	112	17.3	S 26	29.0
Elnath	278	02.6	N 28	37.8	Atria	107	12.7	S 69	04.0
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	11.9	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	44.5	Etamin	90	43.1	N 51	29.0
Adhara	255	06.1	S 29	00.3	Kaus Australis	83	34.0	S 34	22.3
Castor	245	57.7	N 31	50.1	Vega	80	34.3	N 38	48.1
Procyon	244	51.1	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	00.5
Avior	234	14.5	S 59	35.0	Altair	62	01.3	N 08	55.7
Suhail	222	46.5	S 43	31.6	Peacock	53	07.6	S 56	39.6
Miaplacidus	221	37.5	S 69	48.7	Deneb	49	26.8	N 45	22.0
Alphard	217	48.3	S 08	45.7	Enif	33	39.9	N 09	59.1
Regulus	207	35.0	N 11	50.9	Alnair	27	34.4	S 46	50.9
Dubhe	193	41.6	N 61	37.0	Formalhaut	15	15.8	S 29	29.9
Denebola	182	25.5	N 14	26.2	Markab	13	30.9	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 11 of 366 <i>January 11</i>		day 12 of 366 <i>January 12</i>		day 13 of 366 <i>January 13</i>		day 14 of 366 <i>January 14</i>		day 15 of 366 <i>January 15</i>		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	110 00.5	+02.4	110 59.6	+02.5	111 58.8	+02.4	112 57.9	+02.5	113 57.0	+02.5	00
01	125 02.9	+02.5	126 02.1	+02.4	127 01.2	+02.5	128 00.4	+02.4	128 59.5	+02.5	01
02	140 05.4	+02.5	141 04.5	+02.5	142 03.7	+02.4	143 02.8	+02.5	144 02.0	+02.4	02
03	155 07.9	+02.4	156 07.0	+02.5	157 06.1	+02.5	158 05.3	+02.4	159 04.4	+02.5	03
04	170 10.3	+02.5	171 09.5	+02.4	172 08.6	+02.5	173 07.7	+02.5	174 06.9	+02.5	04
05	185 12.8	+02.5	186 11.9	+02.5	187 11.1	+02.4	188 10.2	+02.5	189 09.4	+02.4	05
06	200 15.3	+02.4	201 14.4	+02.5	202 13.5	+02.5	203 12.7	+02.4	204 11.8	+02.5	06
07	215 17.7	+02.5	216 16.9	+02.4	217 16.0	+02.5	218 15.1	+02.5	219 14.3	+02.4	07
08	230 20.2	+02.4	231 19.3	+02.5	232 18.5	+02.4	233 17.6	+02.5	234 16.7	+02.5	08
09	245 22.6	+02.5	246 21.8	+02.5	247 20.9	+02.5	248 20.1	+02.4	249 19.2	+02.5	09
10	260 25.1	+02.5	261 24.3	+02.4	262 23.4	+02.5	263 22.5	+02.5	264 21.7	+02.4	10
11	275 27.6	+02.4	276 26.7	+02.5	277 25.9	+02.4	278 25.0	+02.5	279 24.1	+02.5	11
12	290 30.0	+02.5	291 29.2	+02.4	292 28.3	+02.5	293 27.5	+02.4	294 26.6	+02.5	12
13	305 32.5	+02.5	306 31.6	+02.5	307 30.8	+02.5	308 29.9	+02.5	309 29.1	+02.4	13
14	320 35.0	+02.4	321 34.1	+02.5	322 33.3	+02.4	323 32.4	+02.5	324 31.5	+02.5	14
15	335 37.4	+02.5	336 36.6	+02.4	337 35.7	+02.5	338 34.9	+02.4	339 34.0	+02.5	15
16	350 39.9	+02.5	351 39.0	+02.5	352 38.2	+02.4	353 37.3	+02.5	354 36.5	+02.4	16
17	5 42.4	+02.4	6 41.5	+02.5	7 40.6	+02.5	8 39.8	+02.4	9 38.9	+02.5	17
18	20 44.8	+02.5	21 44.0	+02.4	22 43.1	+02.5	23 42.2	+02.5	24 41.4	+02.4	18
19	35 47.3	+02.5	36 46.4	+02.5	37 45.6	+02.4	38 44.7	+02.5	39 43.8	+02.5	19
20	50 49.8	+02.4	51 48.9	+02.5	52 48.0	+02.5	53 47.2	+02.4	54 46.3	+02.5	20
21	65 52.2	+02.5	66 51.4	+02.4	67 50.5	+02.5	68 49.6	+02.5	69 48.8	+02.4	21
22	80 54.7	+02.4	81 53.8	+02.5	82 53.0	+02.4	83 52.1	+02.5	84 51.2	+02.5	22
23	95 57.1	+02.5	96 56.3	+02.5	97 55.4	+02.5	98 54.6	+02.4	99 53.7	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.8	N 29 13.5	Gienah	175 44.3	S 17 40.4
Ankaa	353 08.2	S 42 10.7	Acrux	173 00.9	S 63 13.6
Schedir	349 32.1	N 56 40.4	Gacrux	171 52.5	S 57 14.5
Diphda	348 48.2	S 17 51.5	Alioth	166 13.7	N 55 49.5
Achernar	335 20.8	S 57 07.2	Spica	158 23.2	S 11 17.1
Hamal	327 52.1	N 23 34.7	Alkaid	152 52.7	N 49 11.3
Polaris	314 13.2	N 89 22.2	Hadar	148 37.3	S 60 29.0
Acamar	315 12.2	S 40 12.7	Menkent	147 58.4	S 36 28.8
Menkar	314 06.8	N 04 11.0	Arcturus	145 48.4	N 19 04.1
Mirfak	308 29.2	N 49 57.0	Rigel Kentaurus	139 38.9	S 60 56.0
Aldebaran	290 40.3	N 16 33.5	Zubenelgenubi	136 57.0	S 16 08.4
Capella	280 22.7	N 46 01.6	Kocab	137 20.2	N 74 03.1
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.7	N 26 37.9
Bellatrix	278 23.4	N 06 22.3	Antares	112 17.2	S 26 29.0
Elnath	278 02.6	N 28 37.8	Atria	107 12.6	S 69 04.0
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 11.9	S 37 07.2
Canopus	263 52.2	S 52 42.5	Rasalhague	95 59.7	N 12 32.5
Sirius	258 26.4	S 16 44.5	Etamin	90 43.1	N 51 29.0
Adhara	255 06.1	S 29 00.3	Kaus Australis	83 34.0	S 34 22.3
Castor	245 57.6	N 31 50.1	Vega	80 34.3	N 38 48.1
Procyon	244 51.1	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 00.5
Avior	234 14.4	S 59 35.1	Altair	62 01.3	N 08 55.7
Suhail	222 46.5	S 43 31.6	Peacock	53 07.6	S 56 39.6
Miaplacidus	221 37.4	S 69 48.8	Deneb	49 26.8	N 45 22.0
Alphard	217 48.3	S 08 45.8	Enif	33 39.9	N 09 59.1
Regulus	207 35.0	N 11 50.9	Alnair	27 34.4	S 46 50.9
Dubhe	193 41.5	N 61 37.0	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.5	N 14 26.2	Markab	13 30.9	N 15 20.1

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UT	day 16 of 366 <i>January 16</i>			day 17 of 366 <i>January 17</i>			day 18 of 366 <i>January 18</i>			day 19 of 366 <i>January 19</i>			day 20 of 366 <i>January 20</i>			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	114	56.2	+02.4	115	55.3	+02.5	116	54.4	+02.5	117	53.6	+02.4	118	52.7	+02.5	00
01	129	58.6	+02.5	130	57.8	+02.4	131	56.9	+02.5	132	56.0	+02.5	133	55.2	+02.5	01
02	145	01.1	+02.5	146	00.2	+02.5	146	59.4	+02.4	147	58.5	+02.5	148	57.7	+02.4	02
03	160	03.6	+02.4	161	02.7	+02.5	162	01.8	+02.5	163	01.0	+02.4	164	00.1	+02.5	03
04	175	06.0	+02.5	176	05.2	+02.4	177	04.3	+02.5	178	03.4	+02.5	179	02.6	+02.4	04
05	190	08.5	+02.5	191	07.6	+02.5	192	06.8	+02.4	193	05.9	+02.5	194	05.0	+02.5	05
06	205	11.0	+02.4	206	10.1	+02.5	207	09.2	+02.5	208	08.4	+02.4	209	07.5	+02.5	06
07	220	13.4	+02.5	221	12.6	+02.4	222	11.7	+02.5	223	10.8	+02.5	224	10.0	+02.4	07
08	235	15.9	+02.4	236	15.0	+02.5	237	14.2	+02.4	238	13.3	+02.5	239	12.4	+02.5	08
09	250	18.3	+02.5	251	17.5	+02.4	252	16.6	+02.5	253	15.8	+02.4	254	14.9	+02.5	09
10	265	20.8	+02.5	266	19.9	+02.5	267	19.1	+02.5	268	18.2	+02.5	269	17.4	+02.4	10
11	280	23.3	+02.4	281	22.4	+02.5	282	21.6	+02.4	283	20.7	+02.5	284	19.8	+02.5	11
12	295	25.7	+02.5	296	24.9	+02.4	297	24.0	+02.5	298	23.2	+02.4	299	22.3	+02.5	12
13	310	28.2	+02.5	311	27.3	+02.5	312	26.5	+02.4	313	25.6	+02.5	314	24.8	+02.4	13
14	325	30.7	+02.4	326	29.8	+02.5	327	28.9	+02.5	328	28.1	+02.4	329	27.2	+02.5	14
15	340	33.1	+02.5	341	32.3	+02.4	342	31.4	+02.5	343	30.5	+02.5	344	29.7	+02.5	15
16	355	35.6	+02.5	356	34.7	+02.5	357	33.9	+02.4	358	33.0	+02.5	359	32.2	+02.4	16
17	10	38.1	+02.4	11	37.2	+02.5	12	36.3	+02.5	13	35.5	+02.4	14	34.6	+02.5	17
18	25	40.5	+02.5	26	39.7	+02.4	27	38.8	+02.5	28	37.9	+02.5	29	37.1	+02.4	18
19	40	43.0	+02.5	41	42.1	+02.5	42	41.3	+02.4	43	40.4	+02.5	44	39.5	+02.5	19
20	55	45.5	+02.4	56	44.6	+02.5	57	43.7	+02.5	58	42.9	+02.4	59	42.0	+02.5	20
21	70	47.9	+02.5	71	47.1	+02.4	72	46.2	+02.5	73	45.3	+02.5	74	44.5	+02.4	21
22	85	50.4	+02.4	86	49.5	+02.5	87	48.7	+02.4	88	47.8	+02.5	89	46.9	+02.5	22
23	100	52.8	+02.5	101	52.0	+02.4	102	51.1	+02.5	103	50.3	+02.4	104	49.4	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.8	N 29 13.5	Gienah	175 44.3	S 17 40.5
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Schedir	349 32.2	N 56 40.4	Gacrux	171 52.4	S 57 14.5
Diphda	348 48.3	S 17 51.5	Alioth	166 13.7	N 55 49.5
Achernar	335 20.8	S 57 07.2	Spica	158 23.1	S 11 17.2
Hamal	327 52.1	N 23 34.7	Alkaid	152 52.6	N 49 11.3
Polaris	314 15.6	N 89 22.2	Hadar	148 37.3	S 60 29.0
Acamar	315 12.2	S 40 12.7	Menkent	147 58.3	S 36 28.8
Menkar	314 06.9	N 04 11.0	Arcturus	145 48.3	N 19 04.1
Mirfak	308 29.2	N 49 57.0	Rigel Kentaurus	139 38.8	S 60 56.0
Aldebaran	290 40.3	N 16 33.5	Zubenelgenubi	136 57.0	S 16 08.4
Capella	280 22.7	N 46 01.6	Kocab	137 20.1	N 74 03.0
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.7	N 26 37.9
Bellatrix	278 23.4	N 06 22.3	Antares	112 17.2	S 26 29.0
Elnath	278 02.6	N 28 37.8	Atria	107 12.5	S 69 04.0
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 11.8	S 37 07.2
Canopus	263 52.2	S 52 42.6	Rasalhague	95 59.6	N 12 32.5
Sirius	258 26.4	S 16 44.5	Etamin	90 43.0	N 51 28.9
Adhara	255 06.1	S 29 00.3	Kaus Australis	83 34.0	S 34 22.3
Castor	245 57.6	N 31 50.1	Vega	80 34.3	N 38 48.1
Procyon	244 51.1	N 05 10.2	Nunki	75 49.1	S 26 16.0
Pollux	243 17.6	N 27 58.1	Albireo	67 05.1	N 28 00.5
Avior	234 14.4	S 59 35.1	Altair	62 01.3	N 08 55.7
Suhail	222 46.5	S 43 31.7	Peacock	53 07.6	S 56 39.5
Miaplacidus	221 37.4	S 69 48.8	Deneb	49 26.8	N 45 21.9
Alphard	217 48.2	S 08 45.8	Enif	33 39.9	N 09 59.0
Regulus	207 34.9	N 11 50.9	Alnair	27 34.4	S 46 50.8
Dubhe	193 41.4	N 61 37.0	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.4	N 14 26.2	Markab	13 30.9	N 15 20.1

2024 - First Point of Aries / Selected Stars

UT	day 21 of 366 <i>January 21</i>			day 22 of 366 <i>January 22</i>			day 23 of 366 <i>January 23</i>			day 24 of 366 <i>January 24</i>			day 25 of 366 <i>January 25</i>			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	119	51.9	+02.4	120	51.0	+02.5	121	50.1	+02.5	122	49.3	+02.5	123	48.4	+02.5	00
01	134	54.3	+02.5	135	53.5	+02.4	136	52.6	+02.5	137	51.8	+02.4	138	50.9	+02.5	01
02	149	56.8	+02.5	150	55.9	+02.5	151	55.1	+02.4	152	54.2	+02.5	153	53.4	+02.4	02
03	164	59.3	+02.4	165	58.4	+02.5	166	57.5	+02.5	167	56.7	+02.4	168	55.8	+02.5	03
04	180	01.7	+02.5	181	00.9	+02.4	182	00.0	+02.5	182	59.1	+02.5	183	58.3	+02.4	04
05	195	04.2	+02.4	196	03.3	+02.5	197	02.5	+02.4	198	01.6	+02.5	199	00.7	+02.5	05
06	210	06.6	+02.5	211	05.8	+02.5	212	04.9	+02.5	213	04.1	+02.4	214	03.2	+02.5	06
07	225	09.1	+02.5	226	08.3	+02.4	227	07.4	+02.5	228	06.5	+02.5	229	05.7	+02.4	07
08	240	11.6	+02.4	241	10.7	+02.5	242	09.9	+02.4	243	09.0	+02.5	244	08.1	+02.5	08
09	255	14.0	+02.5	256	13.2	+02.4	257	12.3	+02.5	258	11.5	+02.4	259	10.6	+02.5	09
10	270	16.5	+02.5	271	15.6	+02.5	272	14.8	+02.5	273	13.9	+02.5	274	13.1	+02.4	10
11	285	19.0	+02.4	286	18.1	+02.5	287	17.3	+02.4	288	16.4	+02.5	289	15.5	+02.5	11
12	300	21.4	+02.5	301	20.6	+02.4	302	19.7	+02.5	303	18.9	+02.4	304	18.0	+02.5	12
13	315	23.9	+02.5	316	23.0	+02.5	317	22.2	+02.4	318	21.3	+02.5	319	20.5	+02.4	13
14	330	26.4	+02.4	331	25.5	+02.5	332	24.6	+02.5	333	23.8	+02.4	334	22.9	+02.5	14
15	345	28.8	+02.5	346	28.0	+02.4	347	27.1	+02.5	348	26.2	+02.5	349	25.4	+02.5	15
16	0	31.3	+02.5	1	30.4	+02.5	2	29.6	+02.4	3	28.7	+02.5	4	27.9	+02.4	16
17	15	33.8	+02.4	16	32.9	+02.5	17	32.0	+02.5	18	31.2	+02.4	19	30.3	+02.5	17
18	30	36.2	+02.5	31	35.4	+02.4	32	34.5	+02.5	33	33.6	+02.5	34	32.8	+02.4	18
19	45	38.7	+02.4	46	37.8	+02.5	47	37.0	+02.4	48	36.1	+02.5	49	35.2	+02.5	19
20	60	41.1	+02.5	61	40.3	+02.5	62	39.4	+02.5	63	38.6	+02.4	64	37.7	+02.5	20
21	75	43.6	+02.5	76	42.8	+02.4	77	41.9	+02.5	78	41.0	+02.5	79	40.2	+02.4	21
22	90	46.1	+02.4	91	45.2	+02.5	92	44.4	+02.4	93	43.5	+02.5	94	42.6	+02.5	22
23	105	48.5	+02.5	106	47.7	+02.4	107	46.8	+02.5	108	46.0	+02.4	109	45.1	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.8	N 29 13.5	Gienah	175 44.2	S 17 40.5
Ankaa	353 08.2	S 42 10.7	Acrux	173 00.7	S 63 13.7
Schedir	349 32.2	N 56 40.4	Gacrux	171 52.4	S 57 14.5
Diphda	348 48.3	S 17 51.5	Alioth	166 13.6	N 55 49.5
Achernar	335 20.9	S 57 07.2	Spica	158 23.1	S 11 17.2
Hamal	327 52.1	N 23 34.7	Alkaid	152 52.6	N 49 11.3
Polaris	314 17.7	N 89 22.2	Hadar	148 37.2	S 60 29.0
Acamar	315 12.2	S 40 12.8	Menkent	147 58.3	S 36 28.8
Menkar	314 06.9	N 04 11.0	Arcturus	145 48.3	N 19 04.0
Mirfak	308 29.2	N 49 57.0	Rigel Kentaurus	139 38.7	S 60 56.0
Aldebaran	290 40.3	N 16 33.5	Zubenelgenubi	136 56.9	S 16 08.4
Capella	280 22.7	N 46 01.6	Kocab	137 20.0	N 74 03.0
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.6	N 26 37.8
Bellatrix	278 23.4	N 06 22.3	Antares	112 17.2	S 26 29.0
Elnath	278 02.6	N 28 37.8	Atria	107 12.4	S 69 04.0
Alnilam	275 38.3	S 01 11.2	Sabik	102 04.0	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 11.8	S 37 07.2
Canopus	263 52.2	S 52 42.6	Rasalhague	95 59.6	N 12 32.5
Sirius	258 26.4	S 16 44.5	Etamin	90 43.0	N 51 28.9
Adhara	255 06.1	S 29 00.3	Kaus Australis	83 33.9	S 34 22.3
Castor	245 57.6	N 31 50.1	Vega	80 34.3	N 38 48.1
Procyon	244 51.1	N 05 10.2	Nunki	75 49.1	S 26 16.0
Pollux	243 17.5	N 27 58.1	Albireo	67 05.1	N 28 00.5
Avior	234 14.4	S 59 35.1	Altair	62 01.3	N 08 55.6
Suhail	222 46.4	S 43 31.7	Peacock	53 07.6	S 56 39.5
Miaplacidus	221 37.4	S 69 48.8	Deneb	49 26.8	N 45 21.9
Alphard	217 48.2	S 08 45.8	Enif	33 39.9	N 09 59.0
Regulus	207 34.9	N 11 50.9	Alnair	27 34.4	S 46 50.8
Dubhe	193 41.4	N 61 37.1	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.4	N 14 26.2	Markab	13 30.9	N 15 20.1

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UT	day 26 of 366			day 27 of 366			day 28 of 366			day 29 of 366			day 30 of 366			UT		
	<i>January 26</i>			<i>January 27</i>			<i>January 28</i>			<i>January 29</i>			<i>January 30</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	124	47.6	+02.4	125	46.7	+02.5	126	45.8	+02.5	127	45.0	+02.4	128	44.1	+02.5	00		
01	139	50.0	+02.5	140	49.2	+02.4	141	48.3	+02.5	142	47.4	+02.5	143	46.6	+02.4	01		
02	154	52.5	+02.5	155	51.6	+02.5	156	50.8	+02.4	157	49.9	+02.5	158	49.0	+02.5	02		
03	169	55.0	+02.4	170	54.1	+02.5	171	53.2	+02.5	172	52.4	+02.4	173	51.5	+02.5	03		
04	184	57.4	+02.5	185	56.6	+02.4	186	55.7	+02.5	187	54.8	+02.5	188	54.0	+02.4	04		
05	199	59.9	+02.5	200	59.0	+02.5	201	58.2	+02.4	202	57.3	+02.5	203	56.4	+02.5	05		
06	215	02.4	+02.4	216	01.5	+02.5	217	00.6	+02.5	217	59.8	+02.4	218	58.9	+02.5	06		
07	230	04.8	+02.5	231	04.0	+02.4	232	03.1	+02.5	233	02.2	+02.5	234	01.4	+02.4	07		
08	245	07.3	+02.4	246	06.4	+02.5	247	05.6	+02.4	248	04.7	+02.5	249	03.8	+02.5	08		
09	260	09.7	+02.5	261	08.9	+02.4	262	08.0	+02.5	263	07.2	+02.4	264	06.3	+02.5	09		
10	275	12.2	+02.5	276	11.3	+02.5	277	10.5	+02.4	278	09.6	+02.5	279	08.8	+02.4	10		
11	290	14.7	+02.4	291	13.8	+02.5	292	12.9	+02.5	293	12.1	+02.5	294	11.2	+02.5	11		
12	305	17.1	+02.5	306	16.3	+02.4	307	15.4	+02.5	308	14.6	+02.4	309	13.7	+02.5	12		
13	320	19.6	+02.5	321	18.7	+02.5	322	17.9	+02.4	323	17.0	+02.5	324	16.2	+02.4	13		
14	335	22.1	+02.4	336	21.2	+02.5	337	20.3	+02.5	338	19.5	+02.4	339	18.6	+02.5	14		
15	350	24.5	+02.5	351	23.7	+02.4	352	22.8	+02.5	353	21.9	+02.5	354	21.1	+02.4	15		
16	5	27.0	+02.5	6	26.1	+02.5	7	25.3	+02.4	8	24.4	+02.5	9	23.5	+02.5	16		
17	20	29.5	+02.4	21	28.6	+02.5	22	27.7	+02.5	23	26.9	+02.4	24	26.0	+02.5	17		
18	35	31.9	+02.5	36	31.1	+02.4	37	30.2	+02.5	38	29.3	+02.5	39	28.5	+02.4	18		
19	50	34.4	+02.4	51	33.5	+02.5	52	32.7	+02.4	53	31.8	+02.5	54	30.9	+02.5	19		
20	65	36.8	+02.5	66	36.0	+02.5	67	35.1	+02.5	68	34.3	+02.4	69	33.4	+02.5	20		
21	80	39.3	+02.5	81	38.5	+02.4	82	37.6	+02.5	83	36.7	+02.5	84	35.9	+02.4	21		
22	95	41.8	+02.4	96	40.9	+02.5	97	40.1	+02.4	98	39.2	+02.5	99	38.3	+02.5	22		
23	110	44.2	+02.5	111	43.4	+02.4	112	42.5	+02.5	113	41.7	+02.4	114	40.8	+02.5	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.8	N 29	13.5	Gienah	175	44.2	S 17	40.5
Ankaa	353	08.2	S 42	10.6	Acrux	173	00.7	S 63	13.7
Schedir	349	32.2	N 56	40.4	Gacrux	171	52.3	S 57	14.5
Diphda	348	48.3	S 17	51.5	Alioth	166	13.5	N 55	49.5
Achernar	335	20.9	S 57	07.2	Spica	158	23.0	S 11	17.2
Hamal	327	52.2	N 23	34.7	Alkaid	152	52.5	N 49	11.3
Polaris	314	19.8	N 89	22.3	Hadar	148	37.1	S 60	29.1
Acamar	315	12.2	S 40	12.8	Menkent	147	58.2	S 36	28.9
Menkar	314	06.9	N 04	11.0	Arcturus	145	48.2	N 19	04.0
Mirfak	308	29.2	N 49	57.0	Rigel Kentaurus	139	38.6	S 60	56.0
Aldebaran	290	40.3	N 16	33.5	Zubenelgenubi	136	56.9	S 16	08.4
Capella	280	22.7	N 46	01.6	Kocab	137	19.9	N 74	03.0
Rigel	281	04.4	S 08	10.5	Alphecca	126	04.6	N 26	37.8
Bellatrix	278	23.4	N 06	22.3	Antares	112	17.1	S 26	29.1
Elnath	278	02.6	N 28	37.8	Atria	107	12.3	S 69	04.0
Alnilam	275	38.3	S 01	11.3	Sabik	102	03.9	S 15	45.3
Betelgeuze	270	52.7	N 07	24.7	Shaula	96	11.7	S 37	07.2
Canopus	263	52.3	S 52	42.6	Rasalhague	95	59.6	N 12	32.5
Sirius	258	26.4	S 16	44.5	Etamin	90	43.0	N 51	28.9
Adhara	255	06.1	S 29	00.3	Kaus Australis	83	33.9	S 34	22.3
Castor	245	57.6	N 31	50.1	Vega	80	34.2	N 38	48.0
Procyon	244	51.1	N 05	10.1	Nunki	75	49.1	S 26	16.0
Pollux	243	17.5	N 27	58.1	Albireo	67	05.1	N 28	00.5
Avior	234	14.4	S 59	35.2	Altair	62	01.2	N 08	55.6
Suhail	222	46.4	S 43	31.7	Peacock	53	07.5	S 56	39.5
Miaplacidus	221	37.4	S 69	48.9	Deneb	49	26.8	N 45	21.9
Alphard	217	48.2	S 08	45.8	Enif	33	39.9	N 09	59.0
Regulus	207	34.9	N 11	50.9	Alnair	27	34.4	S 46	50.8
Dubhe	193	41.3	N 61	37.1	Formalhaut	15	15.8	S 29	29.8
Denebola	182	25.4	N 14	26.2	Markab	13	31.0	N 15	20.1

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UT	day 31 of 366 January 31		day 32 of 366 February 1		day 33 of 366 February 2		day 34 of 366 February 3		day 35 of 366 February 4		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	129 43.3	+02.4	130 42.4	+02.5	131 41.5	+02.5	132 40.7	+02.4	133 39.8	+02.5	00
01	144 45.7	+02.5	145 44.9	+02.4	146 44.0	+02.5	147 43.1	+02.5	148 42.3	+02.4	01
02	159 48.2	+02.4	160 47.3	+02.5	161 46.5	+02.4	162 45.6	+02.5	163 44.7	+02.5	02
03	174 50.6	+02.5	175 49.8	+02.5	176 48.9	+02.5	177 48.1	+02.4	178 47.2	+02.5	03
04	189 53.1	+02.5	190 52.3	+02.4	191 51.4	+02.5	192 50.5	+02.5	193 49.7	+02.4	04
05	204 55.6	+02.4	205 54.7	+02.5	206 53.9	+02.4	207 53.0	+02.5	208 52.1	+02.5	05
06	219 58.0	+02.5	220 57.2	+02.4	221 56.3	+02.5	222 55.5	+02.4	223 54.6	+02.5	06
07	235 00.5	+02.5	235 59.6	+02.5	236 58.8	+02.4	237 57.9	+02.5	238 57.1	+02.4	07
08	250 03.0	+02.4	251 02.1	+02.5	252 01.2	+02.5	253 00.4	+02.4	253 59.5	+02.5	08
09	265 05.4	+02.5	266 04.6	+02.4	267 03.7	+02.5	268 02.8	+02.5	269 02.0	+02.5	09
10	280 07.9	+02.5	281 07.0	+02.5	282 06.2	+02.4	283 05.3	+02.5	284 04.5	+02.4	10
11	295 10.4	+02.4	296 09.5	+02.5	297 08.6	+02.5	298 07.8	+02.4	299 06.9	+02.5	11
12	310 12.8	+02.5	311 12.0	+02.4	312 11.1	+02.5	313 10.2	+02.5	314 09.4	+02.4	12
13	325 15.3	+02.5	326 14.4	+02.5	327 13.6	+02.4	328 12.7	+02.5	329 11.8	+02.5	13
14	340 17.8	+02.4	341 16.9	+02.5	342 16.0	+02.5	343 15.2	+02.4	344 14.3	+02.5	14
15	355 20.2	+02.5	356 19.4	+02.4	357 18.5	+02.5	358 17.6	+02.5	359 16.8	+02.4	15
16	10 22.7	+02.4	11 21.8	+02.5	12 21.0	+02.4	13 20.1	+02.5	14 19.2	+02.5	16
17	25 25.1	+02.5	26 24.3	+02.4	27 23.4	+02.5	28 22.6	+02.4	29 21.7	+02.5	17
18	40 27.6	+02.5	41 26.7	+02.5	42 25.9	+02.5	43 25.0	+02.5	44 24.2	+02.4	18
19	55 30.1	+02.4	56 29.2	+02.5	57 28.4	+02.4	58 27.5	+02.5	59 26.6	+02.5	19
20	70 32.5	+02.5	71 31.7	+02.4	72 30.8	+02.5	73 30.0	+02.4	74 29.1	+02.5	20
21	85 35.0	+02.5	86 34.1	+02.5	87 33.3	+02.4	88 32.4	+02.5	89 31.6	+02.4	21
22	100 37.5	+02.4	101 36.6	+02.5	102 35.7	+02.5	103 34.9	+02.4	104 34.0	+02.5	22
23	115 39.9	+02.5	116 39.1	+02.4	117 38.2	+02.5	118 37.3	+02.5	119 36.5	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.9	N 29 13.5	Gienah	175 44.1	S 17 40.5
Ankaa	353 08.2	S 42 10.6	Acrux	173 00.6	S 63 13.7
Schedir	349 32.3	N 56 40.4	Gacrux	171 52.3	S 57 14.6
Diphda	348 48.3	S 17 51.5	Alioth	166 13.5	N 55 49.5
Achernar	335 20.9	S 57 07.2	Spica	158 23.0	S 11 17.2
Hamal	327 52.2	N 23 34.7	Alkaid	152 52.4	N 49 11.3
Polaris	314 22.4	N 89 22.3	Hadar	148 37.0	S 60 29.1
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Menkar	314 06.9	N 04 11.0	Arcturus	145 48.2	N 19 04.0
Mirfak	308 29.3	N 49 57.0	Rigel Kentaurus	139 38.6	S 60 56.0
Aldebaran	290 40.3	N 16 33.5	Zubenelgenubi	136 56.9	S 16 08.5
Capella	280 22.8	N 46 01.6	Kocab	137 19.8	N 74 03.0
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.5	N 26 37.8
Bellatrix	278 23.5	N 06 22.3	Antares	112 17.1	S 26 29.1
Elnath	278 02.6	N 28 37.8	Atria	107 12.3	S 69 04.0
Alnilam	275 38.3	S 01 11.3	Sabik	102 03.9	S 15 45.3
Betelgeuze	270 52.7	N 07 24.7	Shaula	96 11.7	S 37 07.2
Canopus	263 52.3	S 52 42.6	Rasalhague	95 59.5	N 12 32.5
Sirius	258 26.4	S 16 44.5	Etamin	90 43.0	N 51 28.9
Adhara	255 06.1	S 29 00.4	Kaus Australis	83 33.9	S 34 22.3
Castor	245 57.6	N 31 50.2	Vega	80 34.2	N 38 48.0
Procyon	244 51.1	N 05 10.1	Nunki	75 49.1	S 26 16.0
Pollux	243 17.5	N 27 58.1	Albireo	67 05.0	N 28 00.4
Avior	234 14.4	S 59 35.2	Altair	62 01.2	N 08 55.6
Suhail	222 46.4	S 43 31.8	Peacock	53 07.5	S 56 39.5
Miaplacidus	221 37.4	S 69 48.9	Deneb	49 26.8	N 45 21.9
Alphard	217 48.2	S 08 45.8	Enif	33 39.9	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 34.4	S 46 50.8
Dubhe	193 41.3	N 61 37.1	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.3	N 14 26.2	Markab	13 31.0	N 15 20.0

2024 - First Point of Aries / Selected Stars

UT	day 36 of 366			day 37 of 366			day 38 of 366			day 39 of 366			day 40 of 366			UT		
	February 5			February 6			February 7			February 8			February 9					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	134	39.0	+02.4	135	38.1	+02.5	136	37.2	+02.5	137	36.4	+02.4	138	35.5	+02.5	00		
01	149	41.4	+02.5	150	40.6	+02.4	151	39.7	+02.5	152	38.8	+02.5	153	38.0	+02.4	01		
02	164	43.9	+02.4	165	43.0	+02.5	166	42.2	+02.4	167	41.3	+02.5	168	40.4	+02.5	02		
03	179	46.3	+02.5	180	45.5	+02.4	181	44.6	+02.5	182	43.8	+02.4	183	42.9	+02.5	03		
04	194	48.8	+02.5	195	47.9	+02.5	196	47.1	+02.5	197	46.2	+02.5	198	45.4	+02.4	04		
05	209	51.3	+02.4	210	50.4	+02.5	211	49.6	+02.4	212	48.7	+02.5	213	47.8	+02.5	05		
06	224	53.7	+02.5	225	52.9	+02.4	226	52.0	+02.5	227	51.2	+02.4	228	50.3	+02.5	06		
07	239	56.2	+02.5	240	55.3	+02.5	241	54.5	+02.4	242	53.6	+02.5	243	52.8	+02.4	07		
08	254	58.7	+02.4	255	57.8	+02.5	256	56.9	+02.5	257	56.1	+02.5	258	55.2	+02.5	08		
09	270	01.1	+02.5	271	00.3	+02.4	271	59.4	+02.5	272	58.6	+02.4	273	57.7	+02.5	09		
10	285	03.6	+02.5	286	02.7	+02.5	287	01.9	+02.4	288	01.0	+02.5	289	00.2	+02.4	10		
11	300	06.1	+02.4	301	05.2	+02.5	302	04.3	+02.5	303	03.5	+02.4	304	02.6	+02.5	11		
12	315	08.5	+02.5	316	07.7	+02.4	317	06.8	+02.5	318	05.9	+02.5	319	05.1	+02.4	12		
13	330	11.0	+02.4	331	10.1	+02.5	332	09.3	+02.4	333	08.4	+02.5	334	07.5	+02.5	13		
14	345	13.4	+02.5	346	12.6	+02.5	347	11.7	+02.5	348	10.9	+02.4	349	10.0	+02.5	14		
15	0	15.9	+02.5	1	15.1	+02.4	2	14.2	+02.5	3	13.3	+02.5	4	12.5	+02.4	15		
16	15	18.4	+02.4	16	17.5	+02.5	17	16.7	+02.4	18	15.8	+02.5	19	14.9	+02.5	16		
17	30	20.8	+02.5	31	20.0	+02.4	32	19.1	+02.5	33	18.3	+02.4	34	17.4	+02.5	17		
18	45	23.3	+02.5	46	22.4	+02.5	47	21.6	+02.5	48	20.7	+02.5	49	19.9	+02.4	18		
19	60	25.8	+02.4	61	24.9	+02.5	62	24.1	+02.4	63	23.2	+02.5	64	22.3	+02.5	19		
20	75	28.2	+02.5	76	27.4	+02.4	77	26.5	+02.5	78	25.7	+02.4	79	24.8	+02.5	20		
21	90	30.7	+02.5	91	29.8	+02.5	92	29.0	+02.4	93	28.1	+02.5	94	27.3	+02.4	21		
22	105	33.2	+02.4	106	32.3	+02.5	107	31.4	+02.5	108	30.6	+02.5	109	29.7	+02.5	22		
23	120	35.6	+02.5	121	34.8	+02.4	122	33.9	+02.5	123	33.1	+02.4	124	32.2	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.5	Gienah	175	44.1	S 17	40.5
Ankaa	353	08.3	S 42	10.6	Acrux	173	00.5	S 63	13.7
Schedir	349	32.3	N 56	40.3	Gacrux	171	52.2	S 57	14.6
Diphda	348	48.3	S 17	51.5	Alioth	166	13.4	N 55	49.5
Achernar	335	21.0	S 57	07.2	Spica	158	23.0	S 11	17.2
Hamal	327	52.2	N 23	34.7	Alkaid	152	52.4	N 49	11.3
Polaris	314	24.7	N 89	22.3	Hadar	148	37.0	S 60	29.1
Acamar	315	12.3	S 40	12.8	Menkent	147	58.1	S 36	28.9
Menkar	314	06.9	N 04	11.0	Arcturus	145	48.1	N 19	04.0
Mirfak	308	29.3	N 49	57.0	Rigel Kentaurus	139	38.5	S 60	56.0
Aldebaran	290	40.4	N 16	33.5	Zubenelgenubi	136	56.8	S 16	08.5
Capella	280	22.8	N 46	01.6	Kocab	137	19.7	N 74	03.0
Rigel	281	04.4	S 08	10.5	Alphecca	126	04.5	N 26	37.8
Bellatrix	278	23.5	N 06	22.2	Antares	112	17.0	S 26	29.1
Elnath	278	02.6	N 28	37.8	Atria	107	12.2	S 69	04.0
Alnilam	275	38.3	S 01	11.3	Sabik	102	03.9	S 15	45.4
Betelgeuze	270	52.7	N 07	24.6	Shaula	96	11.7	S 37	07.2
Canopus	263	52.3	S 52	42.7	Rasalhague	95	59.5	N 12	32.5
Sirius	258	26.4	S 16	44.6	Etamin	90	42.9	N 51	28.8
Adhara	255	06.1	S 29	00.4	Kaus Australis	83	33.8	S 34	22.3
Castor	245	57.6	N 31	50.2	Vega	80	34.2	N 38	48.0
Procyon	244	51.1	N 05	10.1	Nunki	75	49.0	S 26	16.0
Pollux	243	17.5	N 27	58.1	Albireo	67	05.0	N 28	00.4
Avior	234	14.4	S 59	35.2	Altair	62	01.2	N 08	55.6
Suhail	222	46.4	S 43	31.8	Peacock	53	07.5	S 56	39.5
Miaplacidus	221	37.3	S 69	48.9	Deneb	49	26.8	N 45	21.8
Alphard	217	48.2	S 08	45.8	Enif	33	39.9	N 09	59.0
Regulus	207	34.8	N 11	50.9	Alnair	27	34.4	S 46	50.8
Dubhe	193	41.2	N 61	37.1	Formalhaut	15	15.8	S 29	29.8
Denebola	182	25.3	N 14	26.2	Markab	13	31.0	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 41 of 366 February 10			day 42 of 366 February 11			day 43 of 366 February 12			day 44 of 366 February 13			day 45 of 366 February 14			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	139	34.7	+02.4	140	33.8	+02.5	141	32.9	+02.5	142	32.1	+02.4	143	31.2	+02.5	00
01	154	37.1	+02.5	155	36.3	+02.4	156	35.4	+02.5	157	34.5	+02.5	158	33.7	+02.4	01
02	169	39.6	+02.4	170	38.7	+02.5	171	37.9	+02.4	172	37.0	+02.5	173	36.1	+02.5	02
03	184	42.0	+02.5	185	41.2	+02.4	186	40.3	+02.5	187	39.5	+02.4	188	38.6	+02.5	03
04	199	44.5	+02.5	200	43.6	+02.5	201	42.8	+02.5	202	41.9	+02.5	203	41.1	+02.4	04
05	214	47.0	+02.4	215	46.1	+02.5	216	45.3	+02.4	217	44.4	+02.5	218	43.5	+02.5	05
06	229	49.4	+02.5	230	48.6	+02.4	231	47.7	+02.5	232	46.9	+02.4	233	46.0	+02.5	06
07	244	51.9	+02.5	245	51.0	+02.5	246	50.2	+02.4	247	49.3	+02.5	248	48.5	+02.4	07
08	259	54.4	+02.4	260	53.5	+02.5	261	52.6	+02.5	262	51.8	+02.4	263	50.9	+02.5	08
09	274	56.8	+02.5	275	56.0	+02.4	276	55.1	+02.5	277	54.2	+02.5	278	53.4	+02.4	09
10	289	59.3	+02.5	290	58.4	+02.5	291	57.6	+02.4	292	56.7	+02.5	293	55.8	+02.5	10
11	305	01.8	+02.4	306	00.9	+02.5	307	00.0	+02.5	307	59.2	+02.4	308	58.3	+02.5	11
12	320	04.2	+02.5	321	03.4	+02.4	322	02.5	+02.5	323	01.6	+02.5	324	00.8	+02.4	12
13	335	06.7	+02.5	336	05.8	+02.5	337	05.0	+02.4	338	04.1	+02.5	339	03.2	+02.5	13
14	350	09.2	+02.4	351	08.3	+02.5	352	07.4	+02.5	353	06.6	+02.4	354	05.7	+02.5	14
15	5	11.6	+02.5	6	10.8	+02.4	7	09.9	+02.5	8	09.0	+02.5	9	08.2	+02.4	15
16	20	14.1	+02.4	21	13.2	+02.5	22	12.4	+02.4	23	11.5	+02.5	24	10.6	+02.5	16
17	35	16.5	+02.5	36	15.7	+02.4	37	14.8	+02.5	38	14.0	+02.4	39	13.1	+02.5	17
18	50	19.0	+02.5	51	18.1	+02.5	52	17.3	+02.4	53	16.4	+02.5	54	15.6	+02.4	18
19	65	21.5	+02.4	66	20.6	+02.5	67	19.7	+02.5	68	18.9	+02.4	69	18.0	+02.5	19
20	80	23.9	+02.5	81	23.1	+02.4	82	22.2	+02.5	83	21.3	+02.5	84	20.5	+02.4	20
21	95	26.4	+02.5	96	25.5	+02.5	97	24.7	+02.4	98	23.8	+02.5	99	22.9	+02.5	21
22	110	28.9	+02.4	111	28.0	+02.5	112	27.1	+02.5	113	26.3	+02.4	114	25.4	+02.5	22
23	125	31.3	+02.5	126	30.5	+02.4	127	29.6	+02.5	128	28.7	+02.5	129	27.9	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.9	N 29 13.5	Gienah	175 44.1	S 17 40.6
Ankaa	353 08.3	S 42 10.6	Acrux	173 00.5	S 63 13.8
Schedir	349 32.3	N 56 40.3	Gacrux	171 52.2	S 57 14.6
Diphda	348 48.3	S 17 51.5	Alioth	166 13.4	N 55 49.5
Achernar	335 21.0	S 57 07.2	Spica	158 22.9	S 11 17.3
Hamal	327 52.2	N 23 34.7	Alkaid	152 52.3	N 49 11.3
Polaris	314 27.0	N 89 22.3	Hadar	148 36.9	S 60 29.1
Acamar	315 12.3	S 40 12.8	Menkent	147 58.1	S 36 28.9
Menkar	314 06.9	N 04 11.0	Arcturus	145 48.1	N 19 04.0
Mirfak	308 29.3	N 49 57.0	Rigel Kentaurus	139 38.4	S 60 56.0
Aldebaran	290 40.4	N 16 33.5	Zubenelgenubi	136 56.8	S 16 08.5
Capella	280 22.8	N 46 01.6	Kocab	137 19.6	N 74 03.0
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.4	N 26 37.8
Bellatrix	278 23.5	N 06 22.2	Antares	112 17.0	S 26 29.1
Elnath	278 02.6	N 28 37.8	Atria	107 12.1	S 69 04.0
Alnilam	275 38.3	S 01 11.3	Sabik	102 03.8	S 15 45.4
Betelgeuze	270 52.7	N 07 24.6	Shaula	96 11.6	S 37 07.2
Canopus	263 52.3	S 52 42.7	Rasalhague	95 59.5	N 12 32.4
Sirius	258 26.4	S 16 44.6	Etamin	90 42.9	N 51 28.8
Adhara	255 06.1	S 29 00.4	Kaus Australis	83 33.8	S 34 22.3
Castor	245 57.6	N 31 50.2	Vega	80 34.1	N 38 48.0
Procyon	244 51.1	N 05 10.1	Nunki	75 49.0	S 26 16.0
Pollux	243 17.5	N 27 58.1	Albireo	67 05.0	N 28 00.4
Avior	234 14.4	S 59 35.3	Altair	62 01.2	N 08 55.6
Suhail	222 46.4	S 43 31.8	Peacock	53 07.5	S 56 39.4
Miaplacidus	221 37.4	S 69 49.0	Deneb	49 26.8	N 45 21.8
Alphard	217 48.2	S 08 45.9	Enif	33 39.9	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 34.3	S 46 50.8
Dubhe	193 41.2	N 61 37.1	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.3	N 14 26.2	Markab	13 31.0	N 15 20.0

2024 - First Point of Aries / Selected Stars

UT	day 46 of 366 February 15			day 47 of 366 February 16			day 48 of 366 February 17			day 49 of 366 February 18			day 50 of 366 February 19			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	144	30.3	+02.5	145	29.5	+02.4	146	28.6	+02.5	147	27.8	+02.4	148	26.9	+02.5	00
01	159	32.8	+02.5	160	31.9	+02.5	161	31.1	+02.4	162	30.2	+02.5	163	29.4	+02.4	01
02	174	35.3	+02.4	175	34.4	+02.5	176	33.5	+02.5	177	32.7	+02.5	178	31.8	+02.5	02
03	189	37.7	+02.5	190	36.9	+02.4	191	36.0	+02.5	192	35.2	+02.4	193	34.3	+02.5	03
04	204	40.2	+02.5	205	39.3	+02.5	206	38.5	+02.4	207	37.6	+02.5	208	36.8	+02.4	04
05	219	42.7	+02.4	220	41.8	+02.5	221	40.9	+02.5	222	40.1	+02.4	223	39.2	+02.5	05
06	234	45.1	+02.5	235	44.3	+02.4	236	43.4	+02.5	237	42.5	+02.5	238	41.7	+02.4	06
07	249	47.6	+02.5	250	46.7	+02.5	251	45.9	+02.4	252	45.0	+02.5	253	44.1	+02.5	07
08	264	50.1	+02.4	265	49.2	+02.5	266	48.3	+02.5	267	47.5	+02.4	268	46.6	+02.5	08
09	279	52.5	+02.5	280	51.7	+02.4	281	50.8	+02.5	282	49.9	+02.5	283	49.1	+02.4	09
10	294	55.0	+02.4	295	54.1	+02.5	296	53.3	+02.4	297	52.4	+02.5	298	51.5	+02.5	10
11	309	57.4	+02.5	310	56.6	+02.5	311	55.7	+02.5	312	54.9	+02.4	313	54.0	+02.5	11
12	324	59.9	+02.5	325	59.1	+02.4	326	58.2	+02.5	327	57.3	+02.5	328	56.5	+02.4	12
13	340	02.4	+02.4	341	01.5	+02.5	342	00.7	+02.4	342	59.8	+02.5	343	58.9	+02.5	13
14	355	04.8	+02.5	356	04.0	+02.4	357	03.1	+02.5	358	02.3	+02.4	359	01.4	+02.5	14
15	10	07.3	+02.5	11	06.4	+02.5	12	05.6	+02.4	13	04.7	+02.5	14	03.9	+02.4	15
16	25	09.8	+02.4	26	08.9	+02.5	27	08.0	+02.5	28	07.2	+02.5	29	06.3	+02.5	16
17	40	12.2	+02.5	41	11.4	+02.4	42	10.5	+02.5	43	09.7	+02.4	44	08.8	+02.5	17
18	55	14.7	+02.5	56	13.8	+02.5	57	13.0	+02.4	58	12.1	+02.5	59	11.3	+02.4	18
19	70	17.2	+02.4	71	16.3	+02.5	72	15.4	+02.5	73	14.6	+02.4	74	13.7	+02.5	19
20	85	19.6	+02.5	86	18.8	+02.4	87	17.9	+02.5	88	17.0	+02.5	89	16.2	+02.4	20
21	100	22.1	+02.5	101	21.2	+02.5	102	20.4	+02.4	103	19.5	+02.5	104	18.6	+02.5	21
22	115	24.6	+02.4	116	23.7	+02.5	117	22.8	+02.5	118	22.0	+02.4	119	21.1	+02.5	22
23	130	27.0	+02.5	131	26.2	+02.4	132	25.3	+02.5	133	24.4	+02.5	134	23.6	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.9	N 29 13.5	Gienah	175 44.0	S 17 40.6
Ankaa	353 08.3	S 42 10.6	Acrux	173 00.4	S 63 13.8
Schedir	349 32.4	N 56 40.3	Gacrux	171 52.1	S 57 14.6
Diphda	348 48.3	S 17 51.5	Alioth	166 13.3	N 55 49.5
Achernar	335 21.0	S 57 07.1	Spica	158 22.9	S 11 17.3
Hamal	327 52.2	N 23 34.7	Alkaid	152 52.3	N 49 11.3
Polaris	314 29.7	N 89 22.3	Hadar	148 36.8	S 60 29.1
Acamar	315 12.3	S 40 12.8	Menkent	147 58.0	S 36 28.9
Menkar	314 07.0	N 04 11.0	Arcturus	145 48.1	N 19 04.0
Mirfak	308 29.3	N 49 57.0	Rigel Kentaurus	139 38.4	S 60 56.1
Aldebaran	290 40.4	N 16 33.5	Zubenelgenubi	136 56.7	S 16 08.5
Capella	280 22.8	N 46 01.6	Kocab	137 19.5	N 74 03.0
Rigel	281 04.4	S 08 10.5	Alphecca	126 04.4	N 26 37.8
Bellatrix	278 23.5	N 06 22.2	Antares	112 16.9	S 26 29.1
Elnath	278 02.6	N 28 37.8	Atria	107 12.0	S 69 04.0
Alnilam	275 38.3	S 01 11.3	Sabik	102 03.8	S 15 45.4
Betelgeuze	270 52.7	N 07 24.6	Shaula	96 11.6	S 37 07.2
Canopus	263 52.4	S 52 42.7	Rasalhague	95 59.4	N 12 32.4
Sirius	258 26.4	S 16 44.6	Etamin	90 42.8	N 51 28.8
Adhara	255 06.1	S 29 00.4	Kaus Australis	83 33.7	S 34 22.3
Castor	245 57.6	N 31 50.2	Vega	80 34.1	N 38 47.9
Procyon	244 51.1	N 05 10.1	Nunki	75 49.0	S 26 16.0
Pollux	243 17.5	N 27 58.1	Albireo	67 05.0	N 28 00.4
Avior	234 14.4	S 59 35.3	Altair	62 01.2	N 08 55.6
Suhail	222 46.4	S 43 31.8	Peacock	53 07.4	S 56 39.4
Miaplacidus	221 37.4	S 69 49.0	Deneb	49 26.8	N 45 21.8
Alphard	217 48.2	S 08 45.9	Enif	33 39.9	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 34.3	S 46 50.7
Dubhe	193 41.1	N 61 37.1	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.2	N 14 26.2	Markab	13 31.0	N 15 20.0

2024 - First Point of Aries / Selected Stars

UT	day 51 of 366 February 20			day 52 of 366 February 21			day 53 of 366 February 22			day 54 of 366 February 23			day 55 of 366 February 24			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	149	26.0	+02.5	150	25.2	+02.4	151	24.3	+02.5	152	23.5	+02.4	153	22.6	+02.5	00
01	164	28.5	+02.5	165	27.6	+02.5	166	26.8	+02.4	167	25.9	+02.5	168	25.1	+02.4	01
02	179	31.0	+02.4	180	30.1	+02.5	181	29.2	+02.5	182	28.4	+02.5	183	27.5	+02.5	02
03	194	33.4	+02.5	195	32.6	+02.4	196	31.7	+02.5	197	30.9	+02.4	198	30.0	+02.5	03
04	209	35.9	+02.5	210	35.0	+02.5	211	34.2	+02.4	212	33.3	+02.5	213	32.5	+02.4	04
05	224	38.4	+02.4	225	37.5	+02.5	226	36.6	+02.5	227	35.8	+02.4	228	34.9	+02.5	05
06	239	40.8	+02.5	240	40.0	+02.4	241	39.1	+02.5	242	38.2	+02.5	243	37.4	+02.4	06
07	254	43.3	+02.5	255	42.4	+02.5	256	41.6	+02.4	257	40.7	+02.5	258	39.8	+02.5	07
08	269	45.8	+02.4	270	44.9	+02.5	271	44.0	+02.5	272	43.2	+02.4	273	42.3	+02.5	08
09	284	48.2	+02.5	285	47.4	+02.4	286	46.5	+02.5	287	45.6	+02.5	288	44.8	+02.4	09
10	299	50.7	+02.4	300	49.8	+02.5	301	49.0	+02.4	302	48.1	+02.5	303	47.2	+02.5	10
11	314	53.1	+02.5	315	52.3	+02.5	316	51.4	+02.5	317	50.6	+02.4	318	49.7	+02.5	11
12	329	55.6	+02.5	330	54.8	+02.4	331	53.9	+02.5	332	53.0	+02.5	333	52.2	+02.4	12
13	344	58.1	+02.4	345	57.2	+02.5	346	56.4	+02.4	347	55.5	+02.5	348	54.6	+02.5	13
14	0	00.5	+02.5	0	59.7	+02.4	1	58.8	+02.5	2	58.0	+02.4	3	57.1	+02.5	14
15	15	03.0	+02.5	16	02.1	+02.5	17	01.3	+02.4	18	00.4	+02.5	18	59.6	+02.4	15
16	30	05.5	+02.4	31	04.6	+02.5	32	03.7	+02.5	33	02.9	+02.4	34	02.0	+02.5	16
17	45	07.9	+02.5	46	07.1	+02.4	47	06.2	+02.5	48	05.3	+02.5	49	04.5	+02.4	17
18	60	10.4	+02.5	61	09.5	+02.5	62	08.7	+02.4	63	07.8	+02.5	64	06.9	+02.5	18
19	75	12.9	+02.4	76	12.0	+02.5	77	11.1	+02.5	78	10.3	+02.4	79	09.4	+02.5	19
20	90	15.3	+02.5	91	14.5	+02.4	92	13.6	+02.5	93	12.7	+02.5	94	11.9	+02.4	20
21	105	17.8	+02.5	106	16.9	+02.5	107	16.1	+02.4	108	15.2	+02.5	109	14.3	+02.5	21
22	120	20.3	+02.4	121	19.4	+02.5	122	18.5	+02.5	123	17.7	+02.4	124	16.8	+02.5	22
23	135	22.7	+02.5	136	21.9	+02.4	137	21.0	+02.5	138	20.1	+02.5	139	19.3	+02.4	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.4	Gienah	175	44.0	S 17	40.6
Ankaa	353	08.3	S 42	10.6	Acrux	173	00.4	S 63	13.8
Schedir	349	32.4	N 56	40.3	Gacrux	171	52.1	S 57	14.7
Diphda	348	48.3	S 17	51.5	Alioth	166	13.3	N 55	49.5
Achernar	335	21.1	S 57	07.1	Spica	158	22.9	S 11	17.3
Hamal	327	52.2	N 23	34.6	Alkaid	152	52.2	N 49	11.3
Polaris	314	31.8	N 89	22.3	Hadar	148	36.8	S 60	29.1
Acamar	315	12.4	S 40	12.8	Menkent	147	58.0	S 36	29.0
Menkar	314	07.0	N 04	11.0	Arcturus	145	48.0	N 19	04.0
Mirfak	308	29.4	N 49	57.0	Rigel Kentaurus	139	38.3	S 60	56.1
Aldebaran	290	40.4	N 16	33.5	Zubenelgenubi	136	56.7	S 16	08.5
Capella	280	22.8	N 46	01.6	Kocab	137	19.4	N 74	03.0
Rigel	281	04.4	S 08	10.6	Alphecca	126	04.4	N 26	37.8
Bellatrix	278	23.5	N 06	22.2	Antares	112	16.9	S 26	29.1
Elnath	278	02.6	N 28	37.8	Atria	107	11.9	S 69	04.0
Alnilam	275	38.3	S 01	11.3	Sabik	102	03.7	S 15	45.4
Betelgeuze	270	52.7	N 07	24.6	Shaula	96	11.5	S 37	07.2
Canopus	263	52.4	S 52	42.7	Rasalhague	95	59.4	N 12	32.4
Sirius	258	26.5	S 16	44.6	Etamin	90	42.8	N 51	28.8
Adhara	255	06.2	S 29	00.4	Kaus Australis	83	33.7	S 34	22.3
Castor	245	57.6	N 31	50.2	Vega	80	34.1	N 38	47.9
Procyon	244	51.1	N 05	10.1	Nunki	75	48.9	S 26	16.0
Pollux	243	17.5	N 27	58.1	Albireo	67	04.9	N 28	00.4
Avior	234	14.5	S 59	35.3	Altair	62	01.1	N 08	55.6
Suhail	222	46.4	S 43	31.9	Peacock	53	07.4	S 56	39.4
Miaplacidus	221	37.4	S 69	49.0	Deneb	49	26.8	N 45	21.8
Alphard	217	48.1	S 08	45.9	Enif	33	39.8	N 09	59.0
Regulus	207	34.8	N 11	50.9	Alnair	27	34.3	S 46	50.7
Dubhe	193	41.1	N 61	37.1	Formalhaut	15	15.8	S 29	29.8
Denebola	182	25.2	N 14	26.1	Markab	13	31.0	N 15	20.0

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UT	day 56 of 366			day 57 of 366			day 58 of 366			day 59 of 366			day 60 of 366			UT		
	February 25			February 26			February 27			February 28			February 29					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	154	21.7	+02.5	155	20.9	+02.4	156	20.0	+02.5	157	19.1	+02.5	158	18.3	+02.4	00		
01	169	24.2	+02.5	170	23.3	+02.5	171	22.5	+02.4	172	21.6	+02.5	173	20.7	+02.5	01		
02	184	26.7	+02.4	185	25.8	+02.5	186	24.9	+02.5	187	24.1	+02.4	188	23.2	+02.5	02		
03	199	29.1	+02.5	200	28.3	+02.4	201	27.4	+02.5	202	26.5	+02.5	203	25.7	+02.4	03		
04	214	31.6	+02.5	215	30.7	+02.5	216	29.9	+02.4	217	29.0	+02.5	218	28.1	+02.5	04		
05	229	34.1	+02.4	230	33.2	+02.5	231	32.3	+02.5	232	31.5	+02.4	233	30.6	+02.5	05		
06	244	36.5	+02.5	245	35.7	+02.4	246	34.8	+02.5	247	33.9	+02.5	248	33.1	+02.4	06		
07	259	39.0	+02.4	260	38.1	+02.5	261	37.3	+02.4	262	36.4	+02.5	263	35.5	+02.5	07		
08	274	41.4	+02.5	275	40.6	+02.4	276	39.7	+02.5	277	38.9	+02.4	278	38.0	+02.5	08		
09	289	43.9	+02.5	290	43.0	+02.5	291	42.2	+02.4	292	41.3	+02.5	293	40.5	+02.4	09		
10	304	46.4	+02.4	305	45.5	+02.5	306	44.6	+02.5	307	43.8	+02.4	308	42.9	+02.5	10		
11	319	48.8	+02.5	320	48.0	+02.4	321	47.1	+02.5	322	46.2	+02.5	323	45.4	+02.5	11		
12	334	51.3	+02.5	335	50.4	+02.5	336	49.6	+02.4	337	48.7	+02.5	338	47.9	+02.4	12		
13	349	53.8	+02.4	350	52.9	+02.5	351	52.0	+02.5	352	51.2	+02.4	353	50.3	+02.5	13		
14	4	56.2	+02.5	5	55.4	+02.4	6	54.5	+02.5	7	53.6	+02.5	8	52.8	+02.4	14		
15	19	58.7	+02.5	20	57.8	+02.5	21	57.0	+02.4	22	56.1	+02.5	23	55.2	+02.5	15		
16	35	01.2	+02.4	36	00.3	+02.5	36	59.4	+02.5	37	58.6	+02.4	38	57.7	+02.5	16		
17	50	03.6	+02.5	51	02.8	+02.4	52	01.9	+02.5	53	01.0	+02.5	54	00.2	+02.4	17		
18	65	06.1	+02.5	66	05.2	+02.5	67	04.4	+02.4	68	03.5	+02.5	69	02.6	+02.5	18		
19	80	08.6	+02.4	81	07.7	+02.5	82	06.8	+02.5	83	06.0	+02.4	84	05.1	+02.5	19		
20	95	11.0	+02.5	96	10.2	+02.4	97	09.3	+02.5	98	08.4	+02.5	99	07.6	+02.4	20		
21	110	13.5	+02.4	111	12.6	+02.5	112	11.8	+02.4	113	10.9	+02.5	114	10.0	+02.5	21		
22	125	15.9	+02.5	126	15.1	+02.4	127	14.2	+02.5	128	13.4	+02.4	129	12.5	+02.5	22		
23	140	18.4	+02.5	141	17.5	+02.5	142	16.7	+02.4	143	15.8	+02.5	144	15.0	+02.4	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.4	Gienah	175	44.0	S 17	40.6
Ankaa	353	08.3	S 42	10.6	Acrux	173	00.3	S 63	13.8
Schedir	349	32.4	N 56	40.3	Gacrux	171	52.0	S 57	14.7
Diphda	348	48.4	S 17	51.5	Alioth	166	13.2	N 55	49.5
Achernar	335	21.1	S 57	07.1	Spica	158	22.8	S 11	17.3
Hamal	327	52.3	N 23	34.6	Alkaid	152	52.2	N 49	11.3
Polaris	314	34.3	N 89	22.3	Hadar	148	36.7	S 60	29.2
Acamar	315	12.4	S 40	12.8	Menkent	147	58.0	S 36	29.0
Menkar	314	07.0	N 04	11.0	Arcturus	145	48.0	N 19	04.0
Mirfak	308	29.4	N 49	57.0	Rigel Kentaurus	139	38.2	S 60	56.1
Aldebaran	290	40.4	N 16	33.5	Zubenelgenubi	136	56.6	S 16	08.5
Capella	280	22.9	N 46	01.6	Kocab	137	19.3	N 74	03.0
Rigel	281	04.5	S 08	10.6	Alphecca	126	04.3	N 26	37.8
Bellatrix	278	23.5	N 06	22.2	Antares	112	16.9	S 26	29.1
Elnath	278	02.7	N 28	37.8	Atria	107	11.8	S 69	04.0
Alnilam	275	38.3	S 01	11.3	Sabik	102	03.7	S 15	45.4
Betelgeuze	270	52.7	N 07	24.6	Shaula	96	11.5	S 37	07.2
Canopus	263	52.4	S 52	42.7	Rasalhague	95	59.4	N 12	32.4
Sirius	258	26.5	S 16	44.6	Etamin	90	42.7	N 51	28.8
Adhara	255	06.2	S 29	00.4	Kaus Australis	83	33.6	S 34	22.3
Castor	245	57.6	N 31	50.2	Vega	80	34.0	N 38	47.9
Procyon	244	51.1	N 05	10.1	Nunki	75	48.9	S 26	16.0
Pollux	243	17.5	N 27	58.1	Albireo	67	04.9	N 28	00.3
Avior	234	14.5	S 59	35.3	Altair	62	01.1	N 08	55.6
Suhail	222	46.4	S 43	31.9	Peacock	53	07.3	S 56	39.4
Miaplacidus	221	37.4	S 69	49.1	Deneb	49	26.7	N 45	21.7
Alphard	217	48.1	S 08	45.9	Enif	33	39.8	N 09	59.0
Regulus	207	34.8	N 11	50.9	Alnair	27	34.3	S 46	50.7
Dubhe	193	41.1	N 61	37.2	Formalhaut	15	15.8	S 29	29.8
Denebola	182	25.2	N 14	26.1	Markab	13	31.0	N 15	20.0

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UT	day 61 of 366		day 62 of 366		day 63 of 366		day 64 of 366		day 65 of 366		UT					
	March 1		March 2		March 3		March 4		March 5							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	159	17.4	+02.5	160	16.6	+02.4	161	15.7	+02.5	162	14.8	+02.5	163	14.0	+02.4	00
01	174	19.9	+02.4	175	19.0	+02.5	176	18.2	+02.4	177	17.3	+02.5	178	16.4	+02.5	01
02	189	22.3	+02.5	190	21.5	+02.5	191	20.6	+02.5	192	19.8	+02.4	193	18.9	+02.5	02
03	204	24.8	+02.5	205	24.0	+02.4	206	23.1	+02.5	207	22.2	+02.5	208	21.4	+02.4	03
04	219	27.3	+02.4	220	26.4	+02.5	221	25.6	+02.4	222	24.7	+02.5	223	23.8	+02.5	04
05	234	29.7	+02.5	235	28.9	+02.4	236	28.0	+02.5	237	27.2	+02.4	238	26.3	+02.5	05
06	249	32.2	+02.5	250	31.3	+02.5	251	30.5	+02.4	252	29.6	+02.5	253	28.8	+02.4	06
07	264	34.7	+02.4	265	33.8	+02.5	266	32.9	+02.5	267	32.1	+02.5	268	31.2	+02.5	07
08	279	37.1	+02.5	280	36.3	+02.4	281	35.4	+02.5	282	34.6	+02.4	283	33.7	+02.5	08
09	294	39.6	+02.5	295	38.7	+02.5	296	37.9	+02.4	297	37.0	+02.5	298	36.2	+02.4	09
10	309	42.1	+02.4	310	41.2	+02.5	311	40.3	+02.5	312	39.5	+02.4	313	38.6	+02.5	10
11	324	44.5	+02.5	325	43.7	+02.4	326	42.8	+02.5	327	41.9	+02.5	328	41.1	+02.4	11
12	339	47.0	+02.5	340	46.1	+02.5	341	45.3	+02.4	342	44.4	+02.5	343	43.5	+02.5	12
13	354	49.5	+02.4	355	48.6	+02.5	356	47.7	+02.5	357	46.9	+02.4	358	46.0	+02.5	13
14	9	51.9	+02.5	10	51.1	+02.4	11	50.2	+02.5	12	49.3	+02.5	13	48.5	+02.4	14
15	24	54.4	+02.4	25	53.5	+02.5	26	52.7	+02.4	27	51.8	+02.5	28	50.9	+02.5	15
16	39	56.8	+02.5	40	56.0	+02.4	41	55.1	+02.5	42	54.3	+02.4	43	53.4	+02.5	16
17	54	59.3	+02.5	55	58.4	+02.5	56	57.6	+02.5	57	56.7	+02.5	58	55.9	+02.4	17
18	70	01.8	+02.4	71	00.9	+02.5	72	00.1	+02.4	72	59.2	+02.5	73	58.3	+02.5	18
19	85	04.2	+02.5	86	03.4	+02.4	87	02.5	+02.5	88	01.7	+02.4	89	00.8	+02.5	19
20	100	06.7	+02.5	101	05.8	+02.5	102	05.0	+02.4	103	04.1	+02.5	104	03.3	+02.4	20
21	115	09.2	+02.4	116	08.3	+02.5	117	07.4	+02.5	118	06.6	+02.4	119	05.7	+02.5	21
22	130	11.6	+02.5	131	10.8	+02.4	132	09.9	+02.5	133	09.0	+02.5	134	08.2	+02.5	22
23	145	14.1	+02.5	146	13.2	+02.5	147	12.4	+02.4	148	11.5	+02.5	149	10.7	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 35.9	N 29 13.4	Gienah	175 44.0	S 17 40.6
Ankaa	353 08.3	S 42 10.6	Acrux	173 00.3	S 63 13.9
Schedir	349 32.4	N 56 40.2	Gacrux	171 52.0	S 57 14.7
Diphda	348 48.4	S 17 51.5	Alioth	166 13.2	N 55 49.5
Achernar	335 21.1	S 57 07.1	Spica	158 22.8	S 11 17.3
Hamal	327 52.3	N 23 34.6	Alkaid	152 52.2	N 49 11.3
Polaris	314 36.7	N 89 22.3	Hadar	148 36.6	S 60 29.2
Acamar	315 12.4	S 40 12.7	Menkent	147 57.9	S 36 29.0
Menkar	314 07.0	N 04 11.0	Arcturus	145 48.0	N 19 04.0
Mirfak	308 29.4	N 49 57.0	Rigel Kentaurus	139 38.2	S 60 56.1
Aldebaran	290 40.5	N 16 33.5	Zubenelgenubi	136 56.6	S 16 08.5
Capella	280 22.9	N 46 01.6	Kocab	137 19.2	N 74 03.0
Rigel	281 04.5	S 08 10.6	Alphecca	126 04.3	N 26 37.8
Bellatrix	278 23.6	N 06 22.2	Antares	112 16.8	S 26 29.1
Elnath	278 02.7	N 28 37.8	Atria	107 11.7	S 69 04.0
Alnilam	275 38.4	S 01 11.3	Sabik	102 03.7	S 15 45.4
Betelgeuze	270 52.8	N 07 24.6	Shaula	96 11.4	S 37 07.2
Canopus	263 52.5	S 52 42.7	Rasalhague	95 59.3	N 12 32.4
Sirius	258 26.5	S 16 44.6	Etamin	90 42.7	N 51 28.8
Adhara	255 06.2	S 29 00.5	Kaus Australis	83 33.6	S 34 22.3
Castor	245 57.6	N 31 50.2	Vega	80 34.0	N 38 47.9
Procyon	244 51.1	N 05 10.1	Nunki	75 48.8	S 26 16.0
Pollux	243 17.6	N 27 58.1	Albireo	67 04.9	N 28 00.3
Avior	234 14.5	S 59 35.4	Altair	62 01.1	N 08 55.6
Suhail	222 46.4	S 43 31.9	Peacock	53 07.3	S 56 39.4
Miaplacidus	221 37.4	S 69 49.1	Deneb	49 26.7	N 45 21.7
Alphard	217 48.1	S 08 45.9	Enif	33 39.8	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 34.3	S 46 50.7
Dubhe	193 41.1	N 61 37.2	Formalhaut	15 15.8	S 29 29.8
Denebola	182 25.2	N 14 26.1	Markab	13 31.0	N 15 20.0

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UT	day 66 of 366			day 67 of 366			day 68 of 366			day 69 of 366			day 70 of 366			UT
	March 6			March 7			March 8			March 9			March 10			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	164	13.1	+02.5	165	12.3	+02.4	166	11.4	+02.5	167	10.5	+02.5	168	09.7	+02.4	00
01	179	15.6	+02.4	180	14.7	+02.5	181	13.9	+02.4	182	13.0	+02.5	183	12.1	+02.5	01
02	194	18.0	+02.5	195	17.2	+02.5	196	16.3	+02.5	197	15.5	+02.4	198	14.6	+02.5	02
03	209	20.5	+02.5	210	19.7	+02.4	211	18.8	+02.5	212	17.9	+02.5	213	17.1	+02.4	03
04	224	23.0	+02.4	225	22.1	+02.5	226	21.3	+02.4	227	20.4	+02.5	228	19.5	+02.5	04
05	239	25.4	+02.5	240	24.6	+02.4	241	23.7	+02.5	242	22.9	+02.4	243	22.0	+02.5	05
06	254	27.9	+02.5	255	27.0	+02.5	256	26.2	+02.4	257	25.3	+02.5	258	24.5	+02.4	06
07	269	30.4	+02.4	270	29.5	+02.5	271	28.6	+02.5	272	27.8	+02.4	273	26.9	+02.5	07
08	284	32.8	+02.5	285	32.0	+02.4	286	31.1	+02.5	287	30.2	+02.5	288	29.4	+02.4	08
09	299	35.3	+02.5	300	34.4	+02.5	301	33.6	+02.4	302	32.7	+02.5	303	31.8	+02.5	09
10	314	37.8	+02.4	315	36.9	+02.5	316	36.0	+02.5	317	35.2	+02.4	318	34.3	+02.5	10
11	329	40.2	+02.5	330	39.4	+02.4	331	38.5	+02.5	332	37.6	+02.5	333	36.8	+02.4	11
12	344	42.7	+02.5	345	41.8	+02.5	346	41.0	+02.4	347	40.1	+02.5	348	39.2	+02.5	12
13	359	45.2	+02.4	0	44.3	+02.5	1	43.4	+02.5	2	42.6	+02.4	3	41.7	+02.5	13
14	14	47.6	+02.5	15	46.8	+02.4	16	45.9	+02.5	17	45.0	+02.5	18	44.2	+02.4	14
15	29	50.1	+02.4	30	49.2	+02.5	31	48.4	+02.4	32	47.5	+02.5	33	46.6	+02.5	15
16	44	52.5	+02.5	45	51.7	+02.4	46	50.8	+02.5	47	50.0	+02.4	48	49.1	+02.5	16
17	59	55.0	+02.5	60	54.1	+02.5	61	53.3	+02.5	62	52.4	+02.5	63	51.6	+02.4	17
18	74	57.5	+02.4	75	56.6	+02.5	76	55.8	+02.4	77	54.9	+02.5	78	54.0	+02.5	18
19	89	59.9	+02.5	90	59.1	+02.4	91	58.2	+02.5	92	57.4	+02.4	93	56.5	+02.5	19
20	105	02.4	+02.5	106	01.5	+02.5	107	00.7	+02.4	107	59.8	+02.5	108	59.0	+02.4	20
21	120	04.9	+02.4	121	04.0	+02.5	122	03.1	+02.5	123	02.3	+02.4	124	01.4	+02.5	21
22	135	07.3	+02.5	136	06.5	+02.4	137	05.6	+02.5	138	04.7	+02.5	139	03.9	+02.4	22
23	150	09.8	+02.5	151	08.9	+02.5	152	08.1	+02.4	153	07.2	+02.5	154	06.3	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.9	N 29 13.4	Gienah	175 43.9	S 17 40.6
Ankaa	353 08.3	S 42 10.5	Acrux	173 00.3	S 63 13.9
Schedir	349 32.4	N 56 40.2	Gacrux	171 52.0	S 57 14.8
Diphda	348 48.4	S 17 51.4	Alioth	166 13.2	N 55 49.5
Achernar	335 21.2	S 57 07.1	Spica	158 22.8	S 11 17.3
Hamal	327 52.3	N 23 34.6	Alkaid	152 52.1	N 49 11.3
Polaris	314 38.6	N 89 22.2	Hadar	148 36.6	S 60 29.2
Acamar	315 12.5	S 40 12.7	Menkent	147 57.9	S 36 29.0
Menkar	314 07.0	N 04 11.0	Arcturus	145 47.9	N 19 04.0
Mirfak	308 29.5	N 49 57.0	Rigel Kentaurus	139 38.1	S 60 56.1
Aldebaran	290 40.5	N 16 33.5	Zubenelgenubi	136 56.6	S 16 08.5
Capella	280 22.9	N 46 01.6	Kocab	137 19.1	N 74 03.0
Rigel	281 04.5	S 08 10.6	Alphecca	126 04.2	N 26 37.8
Bellatrix	278 23.6	N 06 22.2	Antares	112 16.8	S 26 29.1
Elnath	278 02.7	N 28 37.8	Atria	107 11.6	S 69 04.0
Alnilam	275 38.4	S 01 11.3	Sabik	102 03.6	S 15 45.4
Betelgeuze	270 52.8	N 07 24.6	Shaula	96 11.4	S 37 07.2
Canopus	263 52.5	S 52 42.8	Rasalhague	95 59.3	N 12 32.4
Sirius	258 26.5	S 16 44.6	Etamin	90 42.6	N 51 28.7
Adhara	255 06.2	S 29 00.5	Kaus Australis	83 33.6	S 34 22.3
Castor	245 57.6	N 31 50.2	Vega	80 34.0	N 38 47.9
Procyon	244 51.1	N 05 10.1	Nunki	75 48.8	S 26 16.0
Pollux	243 17.6	N 27 58.1	Albireo	67 04.9	N 28 00.3
Avior	234 14.6	S 59 35.4	Altair	62 01.0	N 08 55.6
Suhail	222 46.4	S 43 31.9	Peacock	53 07.3	S 56 39.3
Miaplacidus	221 37.5	S 69 49.1	Deneb	49 26.7	N 45 21.7
Alphard	217 48.1	S 08 45.9	Enif	33 39.8	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 34.3	S 46 50.7
Dubhe	193 41.0	N 61 37.2	Formalhaut	15 15.8	S 29 29.7
Denebola	182 25.2	N 14 26.1	Markab	13 31.0	N 15 20.0

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UT	day 71 of 366		day 72 of 366		day 73 of 366		day 74 of 366		day 75 of 366		UT					
	March 11		March 12		March 13		March 14		March 15							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	169	08.8	+02.5	170	07.9	+02.5	171	07.1	+02.4	172	06.2	+02.5	173	05.4	+02.4	00
01	184	11.3	+02.4	185	10.4	+02.5	186	09.5	+02.5	187	08.7	+02.4	188	07.8	+02.5	01
02	199	13.7	+02.5	200	12.9	+02.4	201	12.0	+02.5	202	11.1	+02.5	203	10.3	+02.5	02
03	214	16.2	+02.5	215	15.3	+02.5	216	14.5	+02.4	217	13.6	+02.5	218	12.8	+02.4	03
04	229	18.7	+02.4	230	17.8	+02.5	231	16.9	+02.5	232	16.1	+02.4	233	15.2	+02.5	04
05	244	21.1	+02.5	245	20.3	+02.4	246	19.4	+02.5	247	18.5	+02.5	248	17.7	+02.4	05
06	259	23.6	+02.5	260	22.7	+02.5	261	21.9	+02.4	262	21.0	+02.5	263	20.1	+02.5	06
07	274	26.1	+02.4	275	25.2	+02.5	276	24.3	+02.5	277	23.5	+02.4	278	22.6	+02.5	07
08	289	28.5	+02.5	290	27.7	+02.4	291	26.8	+02.5	292	25.9	+02.5	293	25.1	+02.4	08
09	304	31.0	+02.5	305	30.1	+02.5	306	29.3	+02.4	307	28.4	+02.5	308	27.5	+02.5	09
10	319	33.5	+02.4	320	32.6	+02.5	321	31.7	+02.5	322	30.9	+02.4	323	30.0	+02.5	10
11	334	35.9	+02.5	335	35.1	+02.4	336	34.2	+02.5	337	33.3	+02.5	338	32.5	+02.4	11
12	349	38.4	+02.4	350	37.5	+02.5	351	36.7	+02.4	352	35.8	+02.5	353	34.9	+02.5	12
13	4	40.8	+02.5	5	40.0	+02.4	6	39.1	+02.5	7	38.3	+02.4	8	37.4	+02.5	13
14	19	43.3	+02.5	20	42.4	+02.5	21	41.6	+02.4	22	40.7	+02.5	23	39.9	+02.4	14
15	34	45.8	+02.4	35	44.9	+02.5	36	44.0	+02.5	37	43.2	+02.4	38	42.3	+02.5	15
16	49	48.2	+02.5	50	47.4	+02.4	51	46.5	+02.5	52	45.6	+02.5	53	44.8	+02.5	16
17	64	50.7	+02.5	65	49.8	+02.5	66	49.0	+02.4	67	48.1	+02.5	68	47.3	+02.4	17
18	79	53.2	+02.4	80	52.3	+02.5	81	51.4	+02.5	82	50.6	+02.4	83	49.7	+02.5	18
19	94	55.6	+02.5	95	54.8	+02.4	96	53.9	+02.5	97	53.0	+02.5	98	52.2	+02.4	19
20	109	58.1	+02.5	110	57.2	+02.5	111	56.4	+02.4	112	55.5	+02.5	113	54.6	+02.5	20
21	125	00.6	+02.4	125	59.7	+02.5	126	58.8	+02.5	127	58.0	+02.4	128	57.1	+02.5	21
22	140	03.0	+02.5	141	02.2	+02.4	142	01.3	+02.5	143	00.4	+02.5	143	59.6	+02.4	22
23	155	05.5	+02.4	156	04.6	+02.5	157	03.8	+02.4	158	02.9	+02.5	159	02.0	+02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.4	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.3	S 42	10.5	Acrux	173	00.2	S 63	13.9
Schedir	349	32.4	N 56	40.2	Gacrux	171	52.0	S 57	14.8
Diphda	348	48.4	S 17	51.4	Alioth	166	13.1	N 55	49.5
Achernar	335	21.2	S 57	07.0	Spica	158	22.7	S 11	17.3
Hamal	327	52.3	N 23	34.6	Alkaid	152	52.1	N 49	11.3
Polaris	314	40.9	N 89	22.2	Hadar	148	36.5	S 60	29.2
Acamar	315	12.5	S 40	12.7	Menkent	147	57.8	S 36	29.0
Menkar	314	07.0	N 04	11.0	Arcturus	145	47.9	N 19	04.0
Mirfak	308	29.5	N 49	57.0	Rigel Kentaurus	139	38.0	S 60	56.2
Aldebaran	290	40.5	N 16	33.5	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	23.0	N 46	01.6	Kocab	137	19.0	N 74	03.0
Rigel	281	04.5	S 08	10.6	Alphecca	126	04.2	N 26	37.8
Bellatrix	278	23.6	N 06	22.2	Antares	112	16.7	S 26	29.1
Elnath	278	02.7	N 28	37.8	Atria	107	11.5	S 69	04.0
Alnilam	275	38.4	S 01	11.3	Sabik	102	03.6	S 15	45.4
Betelgeuze	270	52.8	N 07	24.6	Shaula	96	11.3	S 37	07.2
Canopus	263	52.6	S 52	42.8	Rasalhague	95	59.2	N 12	32.4
Sirius	258	26.5	S 16	44.6	Etamin	90	42.6	N 51	28.7
Adhara	255	06.2	S 29	00.5	Kaus Australis	83	33.5	S 34	22.3
Castor	245	57.7	N 31	50.2	Vega	80	33.9	N 38	47.9
Procyon	244	51.1	N 05	10.1	Nunki	75	48.8	S 26	16.0
Pollux	243	17.6	N 27	58.1	Albireo	67	04.8	N 28	00.3
Avior	234	14.6	S 59	35.4	Altair	62	01.0	N 08	55.6
Suhail	222	46.5	S 43	32.0	Peacock	53	07.2	S 56	39.3
Miaplacidus	221	37.5	S 69	49.1	Deneb	49	26.6	N 45	21.7
Alphard	217	48.2	S 08	45.9	Enif	33	39.8	N 09	59.0
Regulus	207	34.8	N 11	50.9	Alnair	27	34.3	S 46	50.6
Dubhe	193	41.0	N 61	37.2	Formalhaut	15	15.8	S 29	29.7
Denebola	182	25.1	N 14	26.1	Markab	13	30.9	N 15	20.0

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UT	day 76 of 366			day 77 of 366			day 78 of 366			day 79 of 366			day 80 of 366			UT
	March 16			March 17			March 18			March 19			March 20			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	174	04.5	+02.5	175	03.6	+02.5	176	02.8	+02.4	177	01.9	+02.5	178	01.1	+02.4	00
01	189	07.0	+02.4	190	06.1	+02.5	191	05.2	+02.5	192	04.4	+02.4	193	03.5	+02.5	01
02	204	09.4	+02.5	205	08.6	+02.4	206	07.7	+02.5	207	06.8	+02.5	208	06.0	+02.5	02
03	219	11.9	+02.5	220	11.0	+02.5	221	10.2	+02.4	222	09.3	+02.5	223	08.5	+02.4	03
04	234	14.4	+02.4	235	13.5	+02.5	236	12.6	+02.5	237	11.8	+02.4	238	10.9	+02.5	04
05	249	16.8	+02.5	250	16.0	+02.4	251	15.1	+02.5	252	14.2	+02.5	253	13.4	+02.4	05
06	264	19.3	+02.4	265	18.4	+02.5	266	17.6	+02.4	267	16.7	+02.5	268	15.8	+02.5	06
07	279	21.7	+02.5	280	20.9	+02.5	281	20.0	+02.5	282	19.2	+02.4	283	18.3	+02.5	07
08	294	24.2	+02.5	295	23.4	+02.4	296	22.5	+02.5	297	21.6	+02.5	298	20.8	+02.4	08
09	309	26.7	+02.4	310	25.8	+02.5	311	25.0	+02.4	312	24.1	+02.5	313	23.2	+02.5	09
10	324	29.1	+02.5	325	28.3	+02.4	326	27.4	+02.5	327	26.6	+02.4	328	25.7	+02.5	10
11	339	31.6	+02.5	340	30.7	+02.5	341	29.9	+02.5	342	29.0	+02.5	343	28.2	+02.4	11
12	354	34.1	+02.4	355	33.2	+02.5	356	32.4	+02.4	357	31.5	+02.5	358	30.6	+02.5	12
13	9	36.5	+02.5	10	35.7	+02.4	11	34.8	+02.5	12	34.0	+02.4	13	33.1	+02.5	13
14	24	39.0	+02.5	25	38.1	+02.5	26	37.3	+02.4	27	36.4	+02.5	28	35.6	+02.4	14
15	39	41.5	+02.4	40	40.6	+02.5	41	39.7	+02.5	42	38.9	+02.4	43	38.0	+02.5	15
16	54	43.9	+02.5	55	43.1	+02.4	56	42.2	+02.5	57	41.3	+02.5	58	40.5	+02.4	16
17	69	46.4	+02.5	70	45.5	+02.5	71	44.7	+02.4	72	43.8	+02.5	73	42.9	+02.5	17
18	84	48.9	+02.4	85	48.0	+02.5	86	47.1	+02.5	87	46.3	+02.4	88	45.4	+02.5	18
19	99	51.3	+02.5	100	50.5	+02.4	101	49.6	+02.5	102	48.7	+02.5	103	47.9	+02.4	19
20	114	53.8	+02.4	115	52.9	+02.5	116	52.1	+02.4	117	51.2	+02.5	118	50.3	+02.5	20
21	129	56.2	+02.5	130	55.4	+02.5	131	54.5	+02.5	132	53.7	+02.4	133	52.8	+02.5	21
22	144	58.7	+02.5	145	57.9	+02.4	146	57.0	+02.5	147	56.1	+02.5	148	55.3	+02.4	22
23	160	01.2	+02.4	161	00.3	+02.5	161	59.5	+02.4	162	58.6	+02.5	163	57.7	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.9	N 29 13.4	Gienah	175 43.9	S 17 40.7
Ankaa	353 08.3	S 42 10.5	Acrux	173 00.2	S 63 14.0
Schedir	349 32.4	N 56 40.2	Gacrux	171 51.9	S 57 14.8
Diphda	348 48.4	S 17 51.4	Alioth	166 13.1	N 55 49.6
Achernar	335 21.2	S 57 07.0	Spica	158 22.7	S 11 17.3
Hamal	327 52.3	N 23 34.6	Alkaid	152 52.0	N 49 11.3
Polaris	314 42.6	N 89 22.2	Hadar	148 36.5	S 60 29.3
Acamar	315 12.5	S 40 12.7	Menkent	147 57.8	S 36 29.0
Menkar	314 07.1	N 04 11.0	Arcturus	145 47.9	N 19 04.0
Mirfak	308 29.5	N 49 56.9	Rigel Kentaurus	139 38.0	S 60 56.2
Aldebaran	290 40.5	N 16 33.5	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 23.0	N 46 01.6	Kocab	137 18.9	N 74 03.0
Rigel	281 04.6	S 08 10.6	Alphecca	126 04.2	N 26 37.8
Bellatrix	278 23.6	N 06 22.2	Antares	112 16.7	S 26 29.1
Elnath	278 02.8	N 28 37.8	Atria	107 11.4	S 69 04.0
Alnilam	275 38.4	S 01 11.3	Sabik	102 03.5	S 15 45.4
Betelgeuze	270 52.8	N 07 24.6	Shaula	96 11.3	S 37 07.2
Canopus	263 52.6	S 52 42.8	Rasalhague	95 59.2	N 12 32.4
Sirius	258 26.6	S 16 44.6	Etamin	90 42.5	N 51 28.7
Adhara	255 06.3	S 29 00.5	Kaus Australis	83 33.5	S 34 22.3
Castor	245 57.7	N 31 50.2	Vega	80 33.9	N 38 47.9
Procyon	244 51.2	N 05 10.1	Nunki	75 48.7	S 26 16.0
Pollux	243 17.6	N 27 58.1	Albireo	67 04.8	N 28 00.3
Avior	234 14.6	S 59 35.4	Altair	62 01.0	N 08 55.6
Suhail	222 46.5	S 43 32.0	Peacock	53 07.2	S 56 39.3
Miaplacidus	221 37.6	S 69 49.2	Deneb	49 26.6	N 45 21.7
Alphard	217 48.2	S 08 45.9	Enif	33 39.8	N 09 58.9
Regulus	207 34.8	N 11 50.9	Alnair	27 34.2	S 46 50.6
Dubhe	193 41.0	N 61 37.2	Formalhaut	15 15.7	S 29 29.7
Denebola	182 25.1	N 14 26.1	Markab	13 30.9	N 15 20.0

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UT	day 81 of 366		day 82 of 366		day 83 of 366		day 84 of 366		day 85 of 366		UT					
	March 21		March 22		March 23		March 24		March 25							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	179	00.2	+02.5	179	59.3	+02.5	180	58.5	+02.4	181	57.6	+02.5	182	56.7	+02.5	00
01	194	02.7	+02.4	195	01.8	+02.5	196	00.9	+02.5	197	00.1	+02.4	197	59.2	+02.5	01
02	209	05.1	+02.5	210	04.3	+02.4	211	03.4	+02.5	212	02.5	+02.5	213	01.7	+02.4	02
03	224	07.6	+02.5	225	06.7	+02.5	226	05.9	+02.4	227	05.0	+02.5	228	04.1	+02.5	03
04	239	10.1	+02.4	240	09.2	+02.5	241	08.3	+02.5	242	07.5	+02.4	243	06.6	+02.5	04
05	254	12.5	+02.5	255	11.7	+02.4	256	10.8	+02.5	257	09.9	+02.5	258	09.1	+02.4	05
06	269	15.0	+02.4	270	14.1	+02.5	271	13.3	+02.4	272	12.4	+02.5	273	11.5	+02.5	06
07	284	17.4	+02.5	285	16.6	+02.4	286	15.7	+02.5	287	14.9	+02.4	288	14.0	+02.5	07
08	299	19.9	+02.5	300	19.0	+02.5	301	18.2	+02.4	302	17.3	+02.5	303	16.5	+02.4	08
09	314	22.4	+02.4	315	21.5	+02.5	316	20.6	+02.5	317	19.8	+02.5	318	18.9	+02.5	09
10	329	24.8	+02.5	330	24.0	+02.4	331	23.1	+02.5	332	22.3	+02.4	333	21.4	+02.5	10
11	344	27.3	+02.5	345	26.4	+02.5	346	25.6	+02.4	347	24.7	+02.5	348	23.9	+02.4	11
12	359	29.8	+02.4	0	28.9	+02.5	1	28.0	+02.5	2	27.2	+02.4	3	26.3	+02.5	12
13	14	32.2	+02.5	15	31.4	+02.4	16	30.5	+02.5	17	29.6	+02.5	18	28.8	+02.4	13
14	29	34.7	+02.5	30	33.8	+02.5	31	33.0	+02.4	32	32.1	+02.5	33	31.2	+02.5	14
15	44	37.2	+02.4	45	36.3	+02.5	46	35.4	+02.5	47	34.6	+02.4	48	33.7	+02.5	15
16	59	39.6	+02.5	60	38.8	+02.4	61	37.9	+02.5	62	37.0	+02.5	63	36.2	+02.4	16
17	74	42.1	+02.5	75	41.2	+02.5	76	40.4	+02.4	77	39.5	+02.5	78	38.6	+02.5	17
18	89	44.6	+02.4	90	43.7	+02.5	91	42.8	+02.5	92	42.0	+02.4	93	41.1	+02.5	18
19	104	47.0	+02.5	105	46.2	+02.4	106	45.3	+02.5	107	44.4	+02.5	108	43.6	+02.4	19
20	119	49.5	+02.4	120	48.6	+02.5	121	47.8	+02.4	122	46.9	+02.5	123	46.0	+02.5	20
21	134	51.9	+02.5	135	51.1	+02.4	136	50.2	+02.5	137	49.4	+02.4	138	48.5	+02.5	21
22	149	54.4	+02.5	150	53.5	+02.5	151	52.7	+02.4	152	51.8	+02.5	153	51.0	+02.4	22
23	164	56.9	+02.4	165	56.0	+02.5	166	55.1	+02.5	167	54.3	+02.4	168	53.4	+02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.4	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.3	S 42	10.5	Acrux	173	00.2	S 63	14.0
Schedir	349	32.4	N 56	40.2	Gacrux	171	51.9	S 57	14.8
Diphda	348	48.4	S 17	51.4	Alioth	166	13.1	N 55	49.6
Achernar	335	21.2	S 57	07.0	Spica	158	22.7	S 11	17.3
Hamal	327	52.3	N 23	34.6	Alkaid	152	52.0	N 49	11.4
Polaris	314	44.3	N 89	22.2	Hadar	148	36.4	S 60	29.3
Acamar	315	12.5	S 40	12.7	Menkent	147	57.8	S 36	29.1
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.8	N 19	04.0
Mirfak	308	29.5	N 49	56.9	Rigel Kentaurus	139	37.9	S 60	56.2
Aldebaran	290	40.5	N 16	33.5	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	23.0	N 46	01.6	Kocab	137	18.8	N 74	03.1
Rigel	281	04.6	S 08	10.6	Alphecca	126	04.1	N 26	37.8
Bellatrix	278	23.6	N 06	22.2	Antares	112	16.6	S 26	29.1
Elnath	278	02.8	N 28	37.8	Atria	107	11.3	S 69	04.0
Alnilam	275	38.4	S 01	11.3	Sabik	102	03.5	S 15	45.4
Betelgeuze	270	52.8	N 07	24.6	Shaula	96	11.2	S 37	07.2
Canopus	263	52.7	S 52	42.8	Rasalhague	95	59.2	N 12	32.4
Sirius	258	26.6	S 16	44.6	Etamin	90	42.5	N 51	28.7
Adhara	255	06.3	S 29	00.5	Kaus Australis	83	33.4	S 34	22.3
Castor	245	57.7	N 31	50.2	Vega	80	33.8	N 38	47.9
Procyon	244	51.2	N 05	10.1	Nunki	75	48.7	S 26	16.0
Pollux	243	17.6	N 27	58.1	Albireo	67	04.7	N 28	00.3
Avior	234	14.7	S 59	35.4	Altair	62	00.9	N 08	55.6
Suhail	222	46.5	S 43	32.0	Peacock	53	07.1	S 56	39.3
Miaplacidus	221	37.6	S 69	49.2	Deneb	49	26.6	N 45	21.7
Alphard	217	48.2	S 08	45.9	Enif	33	39.7	N 09	58.9
Regulus	207	34.8	N 11	50.9	Alnair	27	34.2	S 46	50.6
Dubhe	193	41.0	N 61	37.3	Formalhaut	15	15.7	S 29	29.7
Denebola	182	25.1	N 14	26.1	Markab	13	30.9	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 86 of 366			day 87 of 366			day 88 of 366			day 89 of 366			day 90 of 366			UT
	March 26			March 27			March 28			March 29			March 30			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	183	55.9	+02.4	184	55.0	+02.5	185	54.2	+02.4	186	53.3	+02.5	187	52.4	+02.5	00
01	198	58.3	+02.5	199	57.5	+02.4	200	56.6	+02.5	201	55.8	+02.4	202	54.9	+02.5	01
02	214	00.8	+02.5	214	59.9	+02.5	215	59.1	+02.4	216	58.2	+02.5	217	57.4	+02.4	02
03	229	03.3	+02.4	230	02.4	+02.5	231	01.5	+02.5	232	00.7	+02.5	232	59.8	+02.5	03
04	244	05.7	+02.5	245	04.9	+02.4	246	04.0	+02.5	247	03.2	+02.4	248	02.3	+02.5	04
05	259	08.2	+02.5	260	07.3	+02.5	261	06.5	+02.4	262	05.6	+02.5	263	04.8	+02.4	05
06	274	10.7	+02.4	275	09.8	+02.5	276	08.9	+02.5	277	08.1	+02.4	278	07.2	+02.5	06
07	289	13.1	+02.5	290	12.3	+02.4	291	11.4	+02.5	292	10.5	+02.5	293	09.7	+02.4	07
08	304	15.6	+02.5	305	14.7	+02.5	306	13.9	+02.4	307	13.0	+02.5	308	12.1	+02.5	08
09	319	18.1	+02.4	320	17.2	+02.5	321	16.3	+02.5	322	15.5	+02.4	323	14.6	+02.5	09
10	334	20.5	+02.5	335	19.7	+02.4	336	18.8	+02.5	337	17.9	+02.5	338	17.1	+02.4	10
11	349	23.0	+02.5	350	22.1	+02.5	351	21.3	+02.4	352	20.4	+02.5	353	19.5	+02.5	11
12	4	25.5	+02.4	5	24.6	+02.5	6	23.7	+02.5	7	22.9	+02.4	8	22.0	+02.5	12
13	19	27.9	+02.5	20	27.1	+02.4	21	26.2	+02.5	22	25.3	+02.5	23	24.5	+02.4	13
14	34	30.4	+02.4	35	29.5	+02.5	36	28.7	+02.4	37	27.8	+02.5	38	26.9	+02.5	14
15	49	32.8	+02.5	50	32.0	+02.4	51	31.1	+02.5	52	30.3	+02.4	53	29.4	+02.5	15
16	64	35.3	+02.5	65	34.4	+02.5	66	33.6	+02.4	67	32.7	+02.5	68	31.9	+02.4	16
17	79	37.8	+02.4	80	36.9	+02.5	81	36.0	+02.5	82	35.2	+02.4	83	34.3	+02.5	17
18	94	40.2	+02.5	95	39.4	+02.4	96	38.5	+02.5	97	37.6	+02.5	98	36.8	+02.5	18
19	109	42.7	+02.5	110	41.8	+02.5	111	41.0	+02.4	112	40.1	+02.5	113	39.3	+02.4	19
20	124	45.2	+02.4	125	44.3	+02.5	126	43.4	+02.5	127	42.6	+02.4	128	41.7	+02.5	20
21	139	47.6	+02.5	140	46.8	+02.4	141	45.9	+02.5	142	45.0	+02.5	143	44.2	+02.4	21
22	154	50.1	+02.5	155	49.2	+02.5	156	48.4	+02.4	157	47.5	+02.5	158	46.6	+02.5	22
23	169	52.6	+02.4	170	51.7	+02.5	171	50.8	+02.5	172	50.0	+02.4	173	49.1	+02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.4	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.3	S 42	10.4	Acrux	173	00.2	S 63	14.0
Schedir	349	32.5	N 56	40.1	Gacrux	171	51.9	S 57	14.9
Diphda	348	48.4	S 17	51.4	Alioth	166	13.1	N 55	49.6
Achernar	335	21.2	S 57	07.0	Spica	158	22.7	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	52.0	N 49	11.4
Polaris	314	46.2	N 89	22.2	Hadar	148	36.4	S 60	29.3
Acamar	315	12.5	S 40	12.7	Menkent	147	57.8	S 36	29.1
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.8	N 19	04.0
Mirfak	308	29.6	N 49	56.9	Rigel Kentaurus	139	37.9	S 60	56.2
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	23.0	N 46	01.6	Kocab	137	18.7	N 74	03.1
Rigel	281	04.6	S 08	10.6	Alphecca	126	04.1	N 26	37.8
Bellatrix	278	23.7	N 06	22.2	Antares	112	16.6	S 26	29.1
Elnath	278	02.8	N 28	37.8	Atria	107	11.2	S 69	04.0
Alnilam	275	38.5	S 01	11.3	Sabik	102	03.5	S 15	45.4
Betelgeuze	270	52.9	N 07	24.6	Shaula	96	11.2	S 37	07.2
Canopus	263	52.7	S 52	42.8	Rasalhague	95	59.1	N 12	32.4
Sirius	258	26.6	S 16	44.6	Etamin	90	42.4	N 51	28.7
Adhara	255	06.3	S 29	00.5	Kaus Australis	83	33.4	S 34	22.3
Castor	245	57.7	N 31	50.2	Vega	80	33.8	N 38	47.9
Procyon	244	51.2	N 05	10.1	Nunki	75	48.6	S 26	16.0
Pollux	243	17.6	N 27	58.1	Albireo	67	04.7	N 28	00.3
Avior	234	14.7	S 59	35.5	Altair	62	00.9	N 08	55.5
Suhail	222	46.5	S 43	32.0	Peacock	53	07.0	S 56	39.3
Miaplacidus	221	37.7	S 69	49.2	Deneb	49	26.5	N 45	21.7
Alphard	217	48.2	S 08	45.9	Enif	33	39.7	N 09	58.9
Regulus	207	34.8	N 11	50.9	Alnair	27	34.2	S 46	50.6
Dubhe	193	41.0	N 61	37.3	Formalhaut	15	15.7	S 29	29.7
Denebola	182	25.1	N 14	26.2	Markab	13	30.9	N 15	20.0

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UT	day 91 of 366			day 92 of 366			day 93 of 366			day 94 of 366			day 95 of 366			UT		
	March 31			April 1			April 2			April 3			April 4					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	188	51.6	+02.4	189	50.7	+02.5	190	49.9	+02.4	191	49.0	+02.5	192	48.1	+02.5	00		
01	203	54.0	+02.5	204	53.2	+02.4	205	52.3	+02.5	206	51.5	+02.4	207	50.6	+02.5	01		
02	218	56.5	+02.5	219	55.6	+02.5	220	54.8	+02.4	221	53.9	+02.5	222	53.1	+02.4	02		
03	233	59.0	+02.4	234	58.1	+02.5	235	57.2	+02.5	236	56.4	+02.5	237	55.5	+02.5	03		
04	249	01.4	+02.5	250	00.6	+02.4	250	59.7	+02.5	251	58.9	+02.4	252	58.0	+02.5	04		
05	264	03.9	+02.5	265	03.0	+02.5	266	02.2	+02.4	267	01.3	+02.5	268	00.5	+02.4	05		
06	279	06.4	+02.4	280	05.5	+02.5	281	04.6	+02.5	282	03.8	+02.4	283	02.9	+02.5	06		
07	294	08.8	+02.5	295	08.0	+02.4	296	07.1	+02.5	297	06.2	+02.5	298	05.4	+02.4	07		
08	309	11.3	+02.5	310	10.4	+02.5	311	09.6	+02.4	312	08.7	+02.5	313	07.8	+02.5	08		
09	324	13.8	+02.4	325	12.9	+02.5	326	12.0	+02.5	327	11.2	+02.4	328	10.3	+02.5	09		
10	339	16.2	+02.5	340	15.4	+02.4	341	14.5	+02.5	342	13.6	+02.5	343	12.8	+02.4	10		
11	354	18.7	+02.4	355	17.8	+02.5	356	17.0	+02.4	357	16.1	+02.5	358	15.2	+02.5	11		
12	9	21.1	+02.5	10	20.3	+02.4	11	19.4	+02.5	12	18.6	+02.4	13	17.7	+02.5	12		
13	24	23.6	+02.5	25	22.7	+02.5	26	21.9	+02.5	27	21.0	+02.5	28	20.2	+02.4	13		
14	39	26.1	+02.4	40	25.2	+02.5	41	24.4	+02.4	42	23.5	+02.5	43	22.6	+02.5	14		
15	54	28.5	+02.5	55	27.7	+02.4	56	26.8	+02.5	57	26.0	+02.4	58	25.1	+02.5	15		
16	69	31.0	+02.5	70	30.1	+02.5	71	29.3	+02.4	72	28.4	+02.5	73	27.6	+02.4	16		
17	84	33.5	+02.4	85	32.6	+02.5	86	31.7	+02.5	87	30.9	+02.4	88	30.0	+02.5	17		
18	99	35.9	+02.5	100	35.1	+02.4	101	34.2	+02.5	102	33.3	+02.5	103	32.5	+02.5	18		
19	114	38.4	+02.5	115	37.5	+02.5	116	36.7	+02.4	117	35.8	+02.5	118	35.0	+02.4	19		
20	129	40.9	+02.4	130	40.0	+02.5	131	39.1	+02.5	132	38.3	+02.4	133	37.4	+02.5	20		
21	144	43.3	+02.5	145	42.5	+02.4	146	41.6	+02.5	147	40.7	+02.5	148	39.9	+02.4	21		
22	159	45.8	+02.4	160	44.9	+02.5	161	44.1	+02.4	162	43.2	+02.5	163	42.3	+02.5	22		
23	174	48.2	+02.5	175	47.4	+02.5	176	46.5	+02.5	177	45.7	+02.4	178	44.8	+02.5	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.9	N 29	13.4	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.3	S 42	10.4	Acrux	173	00.2	S 63	14.0
Schedir	349	32.4	N 56	40.1	Gacrux	171	51.9	S 57	14.9
Diphda	348	48.4	S 17	51.4	Alioth	166	13.1	N 55	49.6
Achernar	335	21.3	S 57	06.9	Spica	158	22.7	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	52.0	N 49	11.4
Polaris	314	47.3	N 89	22.2	Hadar	148	36.4	S 60	29.3
Acamar	315	12.6	S 40	12.7	Menkent	147	57.7	S 36	29.1
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.8	N 19	04.0
Mirfak	308	29.6	N 49	56.9	Rigel Kentaurus	139	37.8	S 60	56.2
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	23.1	N 46	01.6	Kocab	137	18.7	N 74	03.1
Rigel	281	04.6	S 08	10.6	Alphecca	126	04.1	N 26	37.8
Bellatrix	278	23.7	N 06	22.2	Antares	112	16.6	S 26	29.1
Elnath	278	02.8	N 28	37.8	Atria	107	11.1	S 69	04.0
Alnilam	275	38.5	S 01	11.3	Sabik	102	03.4	S 15	45.4
Betelgeuze	270	52.9	N 07	24.6	Shaula	96	11.1	S 37	07.2
Canopus	263	52.8	S 52	42.8	Rasalhague	95	59.1	N 12	32.4
Sirius	258	26.6	S 16	44.6	Etamin	90	42.4	N 51	28.7
Adhara	255	06.4	S 29	00.5	Kaus Australis	83	33.3	S 34	22.3
Castor	245	57.7	N 31	50.2	Vega	80	33.7	N 38	47.9
Procyon	244	51.2	N 05	10.1	Nunki	75	48.6	S 26	16.0
Pollux	243	17.7	N 27	58.1	Albireo	67	04.7	N 28	00.3
Avior	234	14.8	S 59	35.5	Altair	62	00.9	N 08	55.6
Suhail	222	46.5	S 43	32.0	Peacock	53	07.0	S 56	39.3
Miaplacidus	221	37.7	S 69	49.2	Deneb	49	26.5	N 45	21.6
Alphard	217	48.2	S 08	45.9	Enif	33	39.7	N 09	58.9
Regulus	207	34.8	N 11	50.9	Alnair	27	34.1	S 46	50.5
Dubhe	193	41.1	N 61	37.3	Formalhaut	15	15.7	S 29	29.6
Denebola	182	25.1	N 14	26.2	Markab	13	30.9	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 96 of 366		day 97 of 366		day 98 of 366		day 99 of 366		day 100 of 366		UT					
	<i>April 5</i>		<i>April 6</i>		<i>April 7</i>		<i>April 8</i>		<i>April 9</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	193	47.3	+02.4	194	46.4	+02.5	195	45.5	+02.5	196	44.7	+02.4	197	43.8	+02.5	00
01	208	49.7	+02.5	209	48.9	+02.4	210	48.0	+02.5	211	47.1	+02.5	212	46.3	+02.4	01
02	223	52.2	+02.5	224	51.3	+02.5	225	50.5	+02.4	226	49.6	+02.5	227	48.7	+02.5	02
03	238	54.7	+02.4	239	53.8	+02.5	240	52.9	+02.5	241	52.1	+02.4	242	51.2	+02.5	03
04	253	57.1	+02.5	254	56.3	+02.4	255	55.4	+02.5	256	54.5	+02.5	257	53.7	+02.4	04
05	268	59.6	+02.5	269	58.7	+02.5	270	57.9	+02.4	271	57.0	+02.5	272	56.1	+02.5	05
06	284	02.1	+02.4	285	01.2	+02.5	286	00.3	+02.5	286	59.5	+02.4	287	58.6	+02.5	06
07	299	04.5	+02.5	300	03.7	+02.4	301	02.8	+02.5	302	01.9	+02.5	303	01.1	+02.4	07
08	314	07.0	+02.4	315	06.1	+02.5	316	05.3	+02.4	317	04.4	+02.5	318	03.5	+02.5	08
09	329	09.4	+02.5	330	08.6	+02.5	331	07.7	+02.5	332	06.9	+02.4	333	06.0	+02.5	09
10	344	11.9	+02.5	345	11.1	+02.4	346	10.2	+02.5	347	09.3	+02.5	348	08.5	+02.4	10
11	359	14.4	+02.4	0	13.5	+02.5	1	12.7	+02.4	2	11.8	+02.5	3	10.9	+02.5	11
12	14	16.8	+02.5	15	16.0	+02.4	16	15.1	+02.5	17	14.3	+02.4	18	13.4	+02.5	12
13	29	19.3	+02.5	30	18.4	+02.5	31	17.6	+02.4	32	16.7	+02.5	33	15.9	+02.4	13
14	44	21.8	+02.4	45	20.9	+02.5	46	20.0	+02.5	47	19.2	+02.4	48	18.3	+02.5	14
15	59	24.2	+02.5	60	23.4	+02.4	61	22.5	+02.5	62	21.6	+02.5	63	20.8	+02.4	15
16	74	26.7	+02.5	75	25.8	+02.5	76	25.0	+02.4	77	24.1	+02.5	78	23.2	+02.5	16
17	89	29.2	+02.4	90	28.3	+02.5	91	27.4	+02.5	92	26.6	+02.4	93	25.7	+02.5	17
18	104	31.6	+02.5	105	30.8	+02.4	106	29.9	+02.5	107	29.0	+02.5	108	28.2	+02.4	18
19	119	34.1	+02.5	120	33.2	+02.5	121	32.4	+02.4	122	31.5	+02.5	123	30.6	+02.5	19
20	134	36.6	+02.4	135	35.7	+02.5	136	34.8	+02.5	137	34.0	+02.4	138	33.1	+02.5	20
21	149	39.0	+02.5	150	38.2	+02.4	151	37.3	+02.5	152	36.4	+02.5	153	35.6	+02.4	21
22	164	41.5	+02.4	165	40.6	+02.5	166	39.8	+02.4	167	38.9	+02.5	168	38.0	+02.5	22
23	179	43.9	+02.5	180	43.1	+02.4	181	42.2	+02.5	182	41.4	+02.4	183	40.5	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.9	N 29	13.3	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.3	S 42	10.4	Acrux	173	00.2	S 63	14.1
Schedir	349	32.4	N 56	40.1	Gacrux	171	51.9	S 57	14.9
Diphda	348	48.3	S 17	51.4	Alioth	166	13.0	N 55	49.6
Achernar	335	21.3	S 57	06.9	Spica	158	22.7	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	52.0	N 49	11.4
Polaris	314	48.5	N 89	22.1	Hadar	148	36.3	S 60	29.4
Acamar	315	12.6	S 40	12.6	Menkent	147	57.7	S 36	29.1
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.8	N 19	04.0
Mirfak	308	29.6	N 49	56.9	Rigel Kentaurus	139	37.8	S 60	56.3
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	23.1	N 46	01.6	Kocab	137	18.6	N 74	03.1
Rigel	281	04.6	S 08	10.5	Alphecca	126	04.0	N 26	37.8
Bellatrix	278	23.7	N 06	22.2	Antares	112	16.5	S 26	29.2
Elnath	278	02.8	N 28	37.8	Atria	107	11.0	S 69	04.0
Alnilam	275	38.5	S 01	11.3	Sabik	102	03.4	S 15	45.4
Betelgeuze	270	52.9	N 07	24.6	Shaula	96	11.1	S 37	07.2
Canopus	263	52.8	S 52	42.8	Rasalhague	95	59.1	N 12	32.4
Sirius	258	26.6	S 16	44.6	Etamin	90	42.3	N 51	28.8
Adhara	255	06.4	S 29	00.5	Kaus Australis	83	33.3	S 34	22.3
Castor	245	57.8	N 31	50.2	Vega	80	33.7	N 38	47.9
Procyon	244	51.2	N 05	10.1	Nunki	75	48.5	S 26	16.0
Pollux	243	17.7	N 27	58.1	Albireo	67	04.6	N 28	00.3
Avior	234	14.8	S 59	35.5	Altair	62	00.8	N 08	55.6
Suhail	222	46.6	S 43	32.0	Peacock	53	06.9	S 56	39.2
Miaplacidus	221	37.8	S 69	49.3	Deneb	49	26.4	N 45	21.6
Alphard	217	48.2	S 08	46.0	Enif	33	39.6	N 09	58.9
Regulus	207	34.8	N 11	50.9	Alnair	27	34.1	S 46	50.5
Dubhe	193	41.1	N 61	37.3	Formalhaut	15	15.7	S 29	29.6
Denebola	182	25.1	N 14	26.2	Markab	13	30.9	N 15	20.0

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UT	day 101 of 366		day 102 of 366		day 103 of 366		day 104 of 366		day 105 of 366		UT
	<i>April 10</i>		<i>April 11</i>		<i>April 12</i>		<i>April 13</i>		<i>April 14</i>		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	198	43.0 +02.4	199	42.1 +02.5	200	41.2 +02.5	201	40.4 +02.4	202	39.5 +02.5	00
01	213	45.4 +02.5	214	44.6 +02.4	215	43.7 +02.5	216	42.8 +02.5	217	42.0 +02.4	01
02	228	47.9 +02.5	229	47.0 +02.5	230	46.2 +02.4	231	45.3 +02.5	232	44.4 +02.5	02
03	243	50.4 +02.4	244	49.5 +02.5	245	48.6 +02.5	246	47.8 +02.4	247	46.9 +02.5	03
04	258	52.8 +02.5	259	52.0 +02.4	260	51.1 +02.5	261	50.2 +02.5	262	49.4 +02.4	04
05	273	55.3 +02.4	274	54.4 +02.5	275	53.6 +02.4	276	52.7 +02.5	277	51.8 +02.5	05
06	288	57.7 +02.5	289	56.9 +02.4	290	56.0 +02.5	291	55.2 +02.4	292	54.3 +02.5	06
07	304	00.2 +02.5	304	59.3 +02.5	305	58.5 +02.5	306	57.6 +02.5	307	56.8 +02.4	07
08	319	02.7 +02.4	320	01.8 +02.5	321	01.0 +02.4	322	00.1 +02.5	322	59.2 +02.5	08
09	334	05.1 +02.5	335	04.3 +02.4	336	03.4 +02.5	337	02.6 +02.4	338	01.7 +02.5	09
10	349	07.6 +02.5	350	06.7 +02.5	351	05.9 +02.4	352	05.0 +02.5	353	04.2 +02.4	10
11	4	10.1 +02.4	5	09.2 +02.5	6	08.3 +02.5	7	07.5 +02.4	8	06.6 +02.5	11
12	19	12.5 +02.5	20	11.7 +02.4	21	10.8 +02.5	22	09.9 +02.5	23	09.1 +02.5	12
13	34	15.0 +02.5	35	14.1 +02.5	36	13.3 +02.4	37	12.4 +02.5	38	11.6 +02.4	13
14	49	17.5 +02.4	50	16.6 +02.5	51	15.7 +02.5	52	14.9 +02.4	53	14.0 +02.5	14
15	64	19.9 +02.5	65	19.1 +02.4	66	18.2 +02.5	67	17.3 +02.5	68	16.5 +02.4	15
16	79	22.4 +02.4	80	21.5 +02.5	81	20.7 +02.4	82	19.8 +02.5	83	18.9 +02.5	16
17	94	24.8 +02.5	95	24.0 +02.5	96	23.1 +02.5	97	22.3 +02.4	98	21.4 +02.5	17
18	109	27.3 +02.5	110	26.5 +02.4	111	25.6 +02.5	112	24.7 +02.5	113	23.9 +02.4	18
19	124	29.8 +02.4	125	28.9 +02.5	126	28.1 +02.4	127	27.2 +02.5	128	26.3 +02.5	19
20	139	32.2 +02.5	140	31.4 +02.4	141	30.5 +02.5	142	29.7 +02.4	143	28.8 +02.5	20
21	154	34.7 +02.5	155	33.8 +02.5	156	33.0 +02.4	157	32.1 +02.5	158	31.3 +02.4	21
22	169	37.2 +02.4	170	36.3 +02.5	171	35.4 +02.5	172	34.6 +02.5	173	33.7 +02.5	22
23	184	39.6 +02.5	185	38.8 +02.4	186	37.9 +02.5	187	37.1 +02.4	188	36.2 +02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.9	N 29	13.3	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.3	S 42	10.4	Acrux	173	00.2	S 63	14.1
Schedir	349	32.4	N 56	40.1	Gacrux	171	51.9	S 57	14.9
Diphda	348	48.3	S 17	51.3	Alioth	166	13.0	N 55	49.7
Achernar	335	21.3	S 57	06.9	Spica	158	22.7	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	51.9	N 49	11.4
Polaris	314	49.6	N 89	22.1	Hadar	148	36.3	S 60	29.4
Acamar	315	12.6	S 40	12.6	Menkent	147	57.7	S 36	29.1
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.8	N 19	04.0
Mirfak	308	29.6	N 49	56.9	Rigel Kentaurus	139	37.8	S 60	56.3
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	23.1	N 46	01.6	Kocab	137	18.6	N 74	03.1
Rigel	281	04.7	S 08	10.5	Alphecca	126	04.0	N 26	37.8
Bellatrix	278	23.7	N 06	22.2	Antares	112	16.5	S 26	29.2
Elnath	278	02.9	N 28	37.8	Atria	107	10.9	S 69	04.1
Alnilam	275	38.5	S 01	11.3	Sabik	102	03.3	S 15	45.4
Betelgeuze	270	52.9	N 07	24.6	Shaula	96	11.1	S 37	07.2
Canopus	263	52.8	S 52	42.8	Rasalhague	95	59.0	N 12	32.4
Sirius	258	26.7	S 16	44.6	Etamin	90	42.3	N 51	28.8
Adhara	255	06.4	S 29	00.5	Kaus Australis	83	33.2	S 34	22.3
Castor	245	57.8	N 31	50.2	Vega	80	33.7	N 38	47.9
Procyon	244	51.3	N 05	10.1	Nunki	75	48.5	S 26	16.0
Pollux	243	17.7	N 27	58.2	Albireo	67	04.6	N 28	00.3
Avior	234	14.9	S 59	35.5	Altair	62	00.8	N 08	55.6
Suhail	222	46.6	S 43	32.0	Peacock	53	06.9	S 56	39.2
Miaplacidus	221	37.9	S 69	49.3	Deneb	49	26.4	N 45	21.6
Alphard	217	48.2	S 08	46.0	Enif	33	39.6	N 09	59.0
Regulus	207	34.8	N 11	50.9	Alnair	27	34.1	S 46	50.5
Dubhe	193	41.1	N 61	37.3	Formalhaut	15	15.6	S 29	29.6
Denebola	182	25.1	N 14	26.2	Markab	13	30.8	N 15	20.0

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UT	day 106 of 366 April 15		day 107 of 366 April 16		day 108 of 366 April 17		day 109 of 366 April 18		day 110 of 366 April 19		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	203	38.7 +02.4	204	37.8 +02.5	205	36.9 +02.5	206	36.1 +02.4	207	35.2 +02.5	00
01	218	41.1 +02.5	219	40.3 +02.4	220	39.4 +02.5	221	38.5 +02.5	222	37.7 +02.4	01
02	233	43.6 +02.5	234	42.7 +02.5	235	41.9 +02.4	236	41.0 +02.5	237	40.1 +02.5	02
03	248	46.1 +02.4	249	45.2 +02.5	250	44.3 +02.5	251	43.5 +02.4	252	42.6 +02.5	03
04	263	48.5 +02.5	264	47.7 +02.4	265	46.8 +02.5	266	45.9 +02.5	267	45.1 +02.4	04
05	278	51.0 +02.4	279	50.1 +02.5	280	49.3 +02.4	281	48.4 +02.5	282	47.5 +02.5	05
06	293	53.4 +02.5	294	52.6 +02.4	295	51.7 +02.5	296	50.9 +02.4	297	50.0 +02.5	06
07	308	55.9 +02.5	309	55.0 +02.5	310	54.2 +02.5	311	53.3 +02.5	312	52.5 +02.4	07
08	323	58.4 +02.4	324	57.5 +02.5	325	56.7 +02.4	326	55.8 +02.5	327	54.9 +02.5	08
09	339	00.8 +02.5	339	60.0 +02.4	340	59.1 +02.5	341	58.3 +02.4	342	57.4 +02.5	09
10	354	03.3 +02.5	355	02.4 +02.5	356	01.6 +02.4	357	00.7 +02.5	357	59.9 +02.4	10
11	9	05.8 +02.4	10	04.9 +02.5	11	04.0 +02.5	12	03.2 +02.4	13	02.3 +02.5	11
12	24	08.2 +02.5	25	07.4 +02.4	26	06.5 +02.5	27	05.6 +02.5	28	04.8 +02.4	12
13	39	10.7 +02.5	40	09.8 +02.5	41	09.0 +02.4	42	08.1 +02.5	43	07.2 +02.5	13
14	54	13.2 +02.4	55	12.3 +02.5	56	11.4 +02.5	57	10.6 +02.4	58	09.7 +02.5	14
15	69	15.6 +02.5	70	14.8 +02.4	71	13.9 +02.5	72	13.0 +02.5	73	12.2 +02.4	15
16	84	18.1 +02.4	85	17.2 +02.5	86	16.4 +02.4	87	15.5 +02.5	88	14.6 +02.5	16
17	99	20.5 +02.5	100	19.7 +02.5	101	18.8 +02.5	102	18.0 +02.4	103	17.1 +02.5	17
18	114	23.0 +02.5	115	22.2 +02.4	116	21.3 +02.5	117	20.4 +02.5	118	19.6 +02.4	18
19	129	25.5 +02.4	130	24.6 +02.5	131	23.8 +02.4	132	22.9 +02.5	133	22.0 +02.5	19
20	144	27.9 +02.5	145	27.1 +02.4	146	26.2 +02.5	147	25.4 +02.4	148	24.5 +02.5	20
21	159	30.4 +02.5	160	29.5 +02.5	161	28.7 +02.4	162	27.8 +02.5	163	27.0 +02.4	21
22	174	32.9 +02.4	175	32.0 +02.5	176	31.1 +02.5	177	30.3 +02.4	178	29.4 +02.5	22
23	189	35.3 +02.5	190	34.5 +02.4	191	33.6 +02.5	192	32.7 +02.5	193	31.9 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.8	N 29 13.3	Gienah	175 43.9	S 17 40.7
Ankaa	353 08.3	S 42 10.3	Acrux	173 00.2	S 63 14.1
Schedir	349 32.4	N 56 40.1	Gacrux	171 51.9	S 57 15.0
Diphda	348 48.3	S 17 51.3	Alioth	166 13.0	N 55 49.7
Achernar	335 21.3	S 57 06.9	Spica	158 22.6	S 11 17.4
Hamal	327 52.3	N 23 34.6	Alkaid	152 51.9	N 49 11.5
Polaris	314 50.0	N 89 22.1	Hadar	148 36.3	S 60 29.4
Acamar	315 12.6	S 40 12.6	Menkent	147 57.7	S 36 29.1
Menkar	314 07.1	N 04 11.0	Arcturus	145 47.7	N 19 04.0
Mirfak	308 29.6	N 49 56.9	Rigel Kentaurus	139 37.7	S 60 56.3
Aldebaran	290 40.6	N 16 33.5	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 23.1	N 46 01.6	Kocab	137 18.6	N 74 03.2
Rigel	281 04.7	S 08 10.5	Alphecca	126 04.0	N 26 37.8
Bellatrix	278 23.7	N 06 22.2	Antares	112 16.5	S 26 29.2
Elnath	278 02.9	N 28 37.8	Atria	107 10.8	S 69 04.1
Alnilam	275 38.5	S 01 11.3	Sabik	102 03.3	S 15 45.4
Betelgeuze	270 52.9	N 07 24.6	Shaula	96 11.0	S 37 07.2
Canopus	263 52.9	S 52 42.8	Rasalhague	95 59.0	N 12 32.4
Sirius	258 26.7	S 16 44.6	Etamin	90 42.2	N 51 28.8
Adhara	255 06.4	S 29 00.5	Kaus Australis	83 33.2	S 34 22.3
Castor	245 57.8	N 31 50.2	Vega	80 33.6	N 38 47.9
Procyon	244 51.3	N 05 10.1	Nunki	75 48.5	S 26 16.0
Pollux	243 17.7	N 27 58.2	Albireo	67 04.5	N 28 00.3
Avior	234 14.9	S 59 35.5	Altair	62 00.8	N 08 55.6
Suhail	222 46.6	S 43 32.1	Peacock	53 06.8	S 56 39.2
Miaplacidus	221 38.0	S 69 49.3	Deneb	49 26.4	N 45 21.6
Alphard	217 48.2	S 08 46.0	Enif	33 39.6	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 34.0	S 46 50.5
Dubhe	193 41.1	N 61 37.4	Formalhaut	15 15.6	S 29 29.6
Denebola	182 25.1	N 14 26.2	Markab	13 30.8	N 15 20.0

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UT	day 111 of 366			day 112 of 366			day 113 of 366			day 114 of 366			day 115 of 366			UT		
	<i>April 20</i>			<i>April 21</i>			<i>April 22</i>			<i>April 23</i>			<i>April 24</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	208	34.4	+02.4	209	33.5	+02.5	210	32.6	+02.5	211	31.8	+02.4	212	30.9	+02.5	00		
01	223	36.8	+02.5	224	36.0	+02.4	225	35.1	+02.5	226	34.2	+02.5	227	33.4	+02.4	01		
02	238	39.3	+02.4	239	38.4	+02.5	240	37.6	+02.4	241	36.7	+02.5	242	35.8	+02.5	02		
03	253	41.7	+02.5	254	40.9	+02.4	255	40.0	+02.5	256	39.2	+02.4	257	38.3	+02.5	03		
04	268	44.2	+02.5	269	43.3	+02.5	270	42.5	+02.4	271	41.6	+02.5	272	40.8	+02.4	04		
05	283	46.7	+02.4	284	45.8	+02.5	285	44.9	+02.5	286	44.1	+02.4	287	43.2	+02.5	05		
06	298	49.1	+02.5	299	48.3	+02.4	300	47.4	+02.5	301	46.5	+02.5	302	45.7	+02.4	06		
07	313	51.6	+02.5	314	50.7	+02.5	315	49.9	+02.4	316	49.0	+02.5	317	48.1	+02.5	07		
08	328	54.1	+02.4	329	53.2	+02.5	330	52.3	+02.5	331	51.5	+02.4	332	50.6	+02.5	08		
09	343	56.5	+02.5	344	55.7	+02.4	345	54.8	+02.5	346	53.9	+02.5	347	53.1	+02.4	09		
10	358	59.0	+02.5	359	58.1	+02.5	0	57.3	+02.4	1	56.4	+02.5	2	55.5	+02.5	10		
11	14	01.5	+02.4	15	00.6	+02.5	15	59.7	+02.5	16	58.9	+02.4	17	58.0	+02.5	11		
12	29	03.9	+02.5	30	03.1	+02.4	31	02.2	+02.5	32	01.3	+02.5	33	00.5	+02.4	12		
13	44	06.4	+02.4	45	05.5	+02.5	46	04.7	+02.4	47	03.8	+02.5	48	02.9	+02.5	13		
14	59	08.8	+02.5	60	08.0	+02.4	61	07.1	+02.5	62	06.3	+02.4	63	05.4	+02.5	14		
15	74	11.3	+02.5	75	10.4	+02.5	76	09.6	+02.4	77	08.7	+02.5	78	07.9	+02.4	15		
16	89	13.8	+02.4	90	12.9	+02.5	91	12.0	+02.5	92	11.2	+02.5	93	10.3	+02.5	16		
17	104	16.2	+02.5	105	15.4	+02.4	106	14.5	+02.5	107	13.7	+02.4	108	12.8	+02.5	17		
18	119	18.7	+02.5	120	17.8	+02.5	121	17.0	+02.4	122	16.1	+02.5	123	15.3	+02.4	18		
19	134	21.2	+02.4	135	20.3	+02.5	136	19.4	+02.5	137	18.6	+02.4	138	17.7	+02.5	19		
20	149	23.6	+02.5	150	22.8	+02.4	151	21.9	+02.5	152	21.0	+02.5	153	20.2	+02.4	20		
21	164	26.1	+02.5	165	25.2	+02.5	166	24.4	+02.4	167	23.5	+02.5	168	22.6	+02.5	21		
22	179	28.6	+02.4	180	27.7	+02.5	181	26.8	+02.5	182	26.0	+02.4	183	25.1	+02.5	22		
23	194	31.0	+02.5	195	30.2	+02.4	196	29.3	+02.5	197	28.4	+02.5	198	27.6	+02.4	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.8	N 29	13.3	Gienah	175	43.9	S 17	40.7
Ankaa	353	08.2	S 42	10.3	Acrux	173	00.2	S 63	14.2
Schedir	349	32.4	N 56	40.1	Gacrux	171	51.9	S 57	15.0
Diphda	348	48.3	S 17	51.3	Alioth	166	13.0	N 55	49.7
Achernar	335	21.3	S 57	06.8	Spica	158	22.6	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	51.9	N 49	11.5
Polaris	314	50.7	N 89	22.1	Hadar	148	36.3	S 60	29.4
Acamar	315	12.6	S 40	12.6	Menkent	147	57.7	S 36	29.2
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.7	N 19	04.0
Mirfak	308	29.6	N 49	56.8	Rigel Kentaurus	139	37.7	S 60	56.3
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.2	N 46	01.6	Kocab	137	18.5	N 74	03.2
Rigel	281	04.7	S 08	10.5	Alphecca	126	04.0	N 26	37.8
Bellatrix	278	23.7	N 06	22.2	Antares	112	16.4	S 26	29.2
Elnath	278	02.9	N 28	37.8	Atria	107	10.7	S 69	04.1
Alnilam	275	38.6	S 01	11.3	Sabik	102	03.3	S 15	45.4
Betelgeuze	270	52.9	N 07	24.6	Shaula	96	11.0	S 37	07.2
Canopus	263	52.9	S 52	42.7	Rasalhague	95	59.0	N 12	32.4
Sirius	258	26.7	S 16	44.6	Etamin	90	42.2	N 51	28.8
Adhara	255	06.5	S 29	00.5	Kaus Australis	83	33.1	S 34	22.3
Castor	245	57.8	N 31	50.2	Vega	80	33.6	N 38	47.9
Procyon	244	51.3	N 05	10.1	Nunki	75	48.4	S 26	16.0
Pollux	243	17.7	N 27	58.2	Albireo	67	04.5	N 28	00.3
Avior	234	15.0	S 59	35.5	Altair	62	00.7	N 08	55.6
Suhail	222	46.7	S 43	32.1	Peacock	53	06.7	S 56	39.2
Miaplacidus	221	38.0	S 69	49.3	Deneb	49	26.3	N 45	21.6
Alphard	217	48.3	S 08	46.0	Enif	33	39.6	N 09	59.0
Regulus	207	34.8	N 11	50.9	Alnair	27	34.0	S 46	50.5
Dubhe	193	41.1	N 61	37.4	Formalhaut	15	15.6	S 29	29.6
Denebola	182	25.1	N 14	26.2	Markab	13	30.8	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 116 of 366 <i>April 25</i>			day 117 of 366 <i>April 26</i>			day 118 of 366 <i>April 27</i>			day 119 of 366 <i>April 28</i>			day 120 of 366 <i>April 29</i>			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	213	30.0	+02.5	214	29.2	+02.4	215	28.3	+02.5	216	27.5	+02.4	217	26.6	+02.5	00
01	228	32.5	+02.5	229	31.6	+02.5	230	30.8	+02.4	231	29.9	+02.5	232	29.1	+02.4	01
02	243	35.0	+02.4	244	34.1	+02.5	245	33.2	+02.5	246	32.4	+02.4	247	31.5	+02.5	02
03	258	37.4	+02.5	259	36.6	+02.4	260	35.7	+02.5	261	34.8	+02.5	262	34.0	+02.5	03
04	273	39.9	+02.5	274	39.0	+02.5	275	38.2	+02.4	276	37.3	+02.5	277	36.5	+02.4	04
05	288	42.4	+02.4	289	41.5	+02.5	290	40.6	+02.5	291	39.8	+02.4	292	38.9	+02.5	05
06	303	44.8	+02.5	304	44.0	+02.4	305	43.1	+02.5	306	42.2	+02.5	307	41.4	+02.4	06
07	318	47.3	+02.5	319	46.4	+02.5	320	45.6	+02.4	321	44.7	+02.5	322	43.8	+02.5	07
08	333	49.8	+02.4	334	48.9	+02.5	335	48.0	+02.5	336	47.2	+02.4	337	46.3	+02.5	08
09	348	52.2	+02.5	349	51.4	+02.4	350	50.5	+02.5	351	49.6	+02.5	352	48.8	+02.4	09
10	3	54.7	+02.4	4	53.8	+02.5	5	53.0	+02.4	6	52.1	+02.5	7	51.2	+02.5	10
11	18	57.1	+02.5	19	56.3	+02.4	20	55.4	+02.5	21	54.6	+02.4	22	53.7	+02.5	11
12	33	59.6	+02.5	34	58.7	+02.5	35	57.9	+02.5	36	57.0	+02.5	37	56.2	+02.4	12
13	49	02.1	+02.4	50	01.2	+02.5	51	00.4	+02.4	51	59.5	+02.5	52	58.6	+02.5	13
14	64	04.5	+02.5	65	03.7	+02.4	66	02.8	+02.5	67	02.0	+02.4	68	01.1	+02.5	14
15	79	07.0	+02.5	80	06.1	+02.5	81	05.3	+02.4	82	04.4	+02.5	83	03.6	+02.4	15
16	94	09.5	+02.4	95	08.6	+02.5	96	07.7	+02.5	97	06.9	+02.4	98	06.0	+02.5	16
17	109	11.9	+02.5	110	11.1	+02.4	111	10.2	+02.5	112	09.3	+02.5	113	08.5	+02.5	17
18	124	14.4	+02.5	125	13.5	+02.5	126	12.7	+02.4	127	11.8	+02.5	128	11.0	+02.4	18
19	139	16.9	+02.4	140	16.0	+02.5	141	15.1	+02.5	142	14.3	+02.4	143	13.4	+02.5	19
20	154	19.3	+02.5	155	18.5	+02.4	156	17.6	+02.5	157	16.7	+02.5	158	15.9	+02.4	20
21	169	21.8	+02.4	170	20.9	+02.5	171	20.1	+02.4	172	19.2	+02.5	173	18.3	+02.5	21
22	184	24.2	+02.5	185	23.4	+02.5	186	22.5	+02.5	187	21.7	+02.4	188	20.8	+02.5	22
23	199	26.7	+02.5	200	25.9	+02.4	201	25.0	+02.5	202	24.1	+02.5	203	23.3	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.8	N 29 13.3	Gienah	175 43.9	S 17 40.7
Ankaa	353 08.2	S 42 10.3	Acrux	173 00.2	S 63 14.2
Schedir	349 32.3	N 56 40.0	Gacrux	171 51.9	S 57 15.0
Diphda	348 48.3	S 17 51.3	Alioth	166 13.1	N 55 49.7
Achernar	335 21.2	S 57 06.8	Spica	158 22.6	S 11 17.4
Hamal	327 52.3	N 23 34.6	Alkaid	152 51.9	N 49 11.5
Polaris	314 51.1	N 89 22.0	Hadar	148 36.3	S 60 29.5
Acamar	315 12.6	S 40 12.5	Menkent	147 57.6	S 36 29.2
Menkar	314 07.1	N 04 11.0	Arcturus	145 47.7	N 19 04.0
Mirfak	308 29.6	N 49 56.8	Rigel Kentaurus	139 37.7	S 60 56.4
Aldebaran	290 40.6	N 16 33.5	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 23.2	N 46 01.6	Kocab	137 18.5	N 74 03.2
Rigel	281 04.7	S 08 10.5	Alphecca	126 04.0	N 26 37.8
Bellatrix	278 23.8	N 06 22.2	Antares	112 16.4	S 26 29.2
Elnath	278 02.9	N 28 37.8	Atria	107 10.7	S 69 04.1
Alnilam	275 38.6	S 01 11.3	Sabik	102 03.2	S 15 45.4
Betelgeuze	270 53.0	N 07 24.6	Shaula	96 10.9	S 37 07.2
Canopus	263 53.0	S 52 42.7	Rasalhague	95 58.9	N 12 32.4
Sirius	258 26.7	S 16 44.6	Etamin	90 42.1	N 51 28.8
Adhara	255 06.5	S 29 00.5	Kaus Australis	83 33.1	S 34 22.3
Castor	245 57.9	N 31 50.2	Vega	80 33.5	N 38 47.9
Procyon	244 51.3	N 05 10.1	Nunki	75 48.4	S 26 16.0
Pollux	243 17.8	N 27 58.2	Albireo	67 04.5	N 28 00.3
Avior	234 15.0	S 59 35.5	Altair	62 00.7	N 08 55.6
Suhail	222 46.7	S 43 32.1	Peacock	53 06.7	S 56 39.2
Miaplacidus	221 38.1	S 69 49.3	Deneb	49 26.3	N 45 21.6
Alphard	217 48.3	S 08 46.0	Enif	33 39.5	N 09 59.0
Regulus	207 34.8	N 11 50.9	Alnair	27 33.9	S 46 50.4
Dubhe	193 41.2	N 61 37.4	Formalhaut	15 15.5	S 29 29.6
Denebola	182 25.1	N 14 26.2	Markab	13 30.8	N 15 20.0

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UT	day 121 of 366			day 122 of 366			day 123 of 366			day 124 of 366			day 125 of 366			UT		
	April 30			May 1			May 2			May 3			May 4					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	218	25.7	+02.5	219	24.9	+02.4	220	24.0	+02.5	221	23.2	+02.4	222	22.3	+02.5	00		
01	233	28.2	+02.5	234	27.3	+02.5	235	26.5	+02.4	236	25.6	+02.5	237	24.8	+02.4	01		
02	248	30.7	+02.4	249	29.8	+02.5	250	28.9	+02.5	251	28.1	+02.4	252	27.2	+02.5	02		
03	263	33.1	+02.5	264	32.3	+02.4	265	31.4	+02.5	266	30.5	+02.5	267	29.7	+02.5	03		
04	278	35.6	+02.5	279	34.7	+02.5	280	33.9	+02.4	281	33.0	+02.5	282	32.2	+02.4	04		
05	293	38.1	+02.4	294	37.2	+02.5	295	36.3	+02.5	296	35.5	+02.4	297	34.6	+02.5	05		
06	308	40.5	+02.5	309	39.7	+02.4	310	38.8	+02.5	311	37.9	+02.5	312	37.1	+02.4	06		
07	323	43.0	+02.5	324	42.1	+02.5	325	41.3	+02.4	326	40.4	+02.5	327	39.5	+02.5	07		
08	338	45.5	+02.4	339	44.6	+02.5	340	43.7	+02.5	341	42.9	+02.4	342	42.0	+02.5	08		
09	353	47.9	+02.5	354	47.1	+02.4	355	46.2	+02.5	356	45.3	+02.5	357	44.5	+02.4	09		
10	8	50.4	+02.4	9	49.5	+02.5	10	48.7	+02.4	11	47.8	+02.5	12	46.9	+02.5	10		
11	23	52.8	+02.5	24	52.0	+02.4	25	51.1	+02.5	26	50.3	+02.4	27	49.4	+02.5	11		
12	38	55.3	+02.5	39	54.4	+02.5	40	53.6	+02.5	41	52.7	+02.5	42	51.9	+02.4	12		
13	53	57.8	+02.4	54	56.9	+02.5	55	56.1	+02.4	56	55.2	+02.5	57	54.3	+02.5	13		
14	69	00.2	+02.5	69	59.4	+02.4	70	58.5	+02.5	71	57.7	+02.4	72	56.8	+02.5	14		
15	84	02.7	+02.5	85	01.8	+02.5	86	01.0	+02.4	87	00.1	+02.5	87	59.3	+02.4	15		
16	99	05.2	+02.4	100	04.3	+02.5	101	03.4	+02.5	102	02.6	+02.4	103	01.7	+02.5	16		
17	114	07.6	+02.5	115	06.8	+02.4	116	05.9	+02.5	117	05.0	+02.5	118	04.2	+02.4	17		
18	129	10.1	+02.5	130	09.2	+02.5	131	08.4	+02.4	132	07.5	+02.5	133	06.6	+02.5	18		
19	144	12.6	+02.4	145	11.7	+02.5	146	10.8	+02.5	147	10.0	+02.4	148	09.1	+02.5	19		
20	159	15.0	+02.5	160	14.2	+02.4	161	13.3	+02.5	162	12.4	+02.5	163	11.6	+02.4	20		
21	174	17.5	+02.5	175	16.6	+02.5	176	15.8	+02.4	177	14.9	+02.5	178	14.0	+02.5	21		
22	189	20.0	+02.4	190	19.1	+02.5	191	18.2	+02.5	192	17.4	+02.4	193	16.5	+02.5	22		
23	204	22.4	+02.5	205	21.6	+02.4	206	20.7	+02.5	207	19.8	+02.5	208	19.0	+02.4	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.7	N 29	13.3	Gienah	175	43.9	S 17	40.8
Ankaa	353	08.2	S 42	10.3	Acrux	173	00.2	S 63	14.2
Schedir	349	32.3	N 56	40.0	Gacrux	171	51.9	S 57	15.0
Diphda	348	48.3	S 17	51.3	Alioth	166	13.1	N 55	49.8
Achernar	335	21.2	S 57	06.8	Spica	158	22.6	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	51.9	N 49	11.5
Polaris	314	50.8	N 89	22.0	Hadar	148	36.2	S 60	29.5
Acamar	315	12.6	S 40	12.5	Menkent	147	57.6	S 36	29.2
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.7	N 19	04.1
Mirfak	308	29.6	N 49	56.8	Rigel Kentaurus	139	37.7	S 60	56.4
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.2	N 46	01.6	Kocab	137	18.5	N 74	03.3
Rigel	281	04.7	S 08	10.5	Alphecca	126	03.9	N 26	37.9
Bellatrix	278	23.8	N 06	22.3	Antares	112	16.4	S 26	29.2
Elnath	278	02.9	N 28	37.8	Atria	107	10.6	S 69	04.1
Alnilam	275	38.6	S 01	11.3	Sabik	102	03.2	S 15	45.4
Betelgeuze	270	53.0	N 07	24.6	Shaula	96	10.9	S 37	07.2
Canopus	263	53.0	S 52	42.7	Rasalhague	95	58.9	N 12	32.4
Sirius	258	26.7	S 16	44.6	Etamin	90	42.1	N 51	28.8
Adhara	255	06.5	S 29	00.5	Kaus Australis	83	33.1	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.5	N 38	47.9
Procyon	244	51.3	N 05	10.1	Nunki	75	48.3	S 26	16.0
Pollux	243	17.8	N 27	58.2	Albireo	67	04.4	N 28	00.3
Avior	234	15.1	S 59	35.5	Altair	62	00.6	N 08	55.6
Suhail	222	46.7	S 43	32.1	Peacock	53	06.6	S 56	39.2
Miaplacidus	221	38.2	S 69	49.3	Deneb	49	26.2	N 45	21.7
Alphard	217	48.3	S 08	46.0	Enif	33	39.5	N 09	59.0
Regulus	207	34.9	N 11	50.9	Alnair	27	33.9	S 46	50.4
Dubhe	193	41.2	N 61	37.4	Formalhaut	15	15.5	S 29	29.5
Denebola	182	25.1	N 14	26.2	Markab	13	30.7	N 15	20.0

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UT	day 126 of 366		day 127 of 366		day 128 of 366		day 129 of 366		day 130 of 366		UT					
	May 5		May 6		May 7		May 8		May 9							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	223	21.4	+02.5	224	20.6	+02.4	225	19.7	+02.5	226	18.8	+02.5	227	18.0	+02.4	00
01	238	23.9	+02.5	239	23.0	+02.5	240	22.2	+02.4	241	21.3	+02.5	242	20.4	+02.5	01
02	253	26.4	+02.4	254	25.5	+02.5	255	24.6	+02.5	256	23.8	+02.4	257	22.9	+02.5	02
03	268	28.8	+02.5	269	28.0	+02.4	270	27.1	+02.5	271	26.2	+02.5	272	25.4	+02.4	03
04	283	31.3	+02.5	284	30.4	+02.5	285	29.6	+02.4	286	28.7	+02.5	287	27.8	+02.5	04
05	298	33.8	+02.4	299	32.9	+02.5	300	32.0	+02.5	301	31.2	+02.4	302	30.3	+02.5	05
06	313	36.2	+02.5	314	35.4	+02.4	315	34.5	+02.5	316	33.6	+02.5	317	32.8	+02.4	06
07	328	38.7	+02.4	329	37.8	+02.5	330	37.0	+02.4	331	36.1	+02.5	332	35.2	+02.5	07
08	343	41.1	+02.5	344	40.3	+02.4	345	39.4	+02.5	346	38.6	+02.4	347	37.7	+02.5	08
09	358	43.6	+02.5	359	42.7	+02.5	0	41.9	+02.4	1	41.0	+02.5	2	40.2	+02.4	09
10	13	46.1	+02.4	14	45.2	+02.5	15	44.3	+02.5	16	43.5	+02.5	17	42.6	+02.5	10
11	28	48.5	+02.5	29	47.7	+02.4	30	46.8	+02.5	31	46.0	+02.4	32	45.1	+02.5	11
12	43	51.0	+02.5	44	50.1	+02.5	45	49.3	+02.4	46	48.4	+02.5	47	47.6	+02.4	12
13	58	53.5	+02.4	59	52.6	+02.5	60	51.7	+02.5	61	50.9	+02.4	62	50.0	+02.5	13
14	73	55.9	+02.5	74	55.1	+02.4	75	54.2	+02.5	76	53.3	+02.5	77	52.5	+02.4	14
15	88	58.4	+02.5	89	57.5	+02.5	90	56.7	+02.4	91	55.8	+02.5	92	54.9	+02.5	15
16	104	00.9	+02.4	104	60.0	+02.5	105	59.1	+02.5	106	58.3	+02.4	107	57.4	+02.5	16
17	119	03.3	+02.5	120	02.5	+02.4	121	01.6	+02.5	122	00.7	+02.5	122	59.9	+02.4	17
18	134	05.8	+02.4	135	04.9	+02.5	136	04.1	+02.4	137	03.2	+02.5	138	02.3	+02.5	18
19	149	08.2	+02.5	150	07.4	+02.5	151	06.5	+02.5	152	05.7	+02.4	153	04.8	+02.5	19
20	164	10.7	+02.5	165	09.9	+02.4	166	09.0	+02.5	167	08.1	+02.5	168	07.3	+02.4	20
21	179	13.2	+02.4	180	12.3	+02.5	181	11.5	+02.4	182	10.6	+02.5	183	09.7	+02.5	21
22	194	15.6	+02.5	195	14.8	+02.4	196	13.9	+02.5	197	13.1	+02.4	198	12.2	+02.5	22
23	209	18.1	+02.5	210	17.2	+02.5	211	16.4	+02.4	212	15.5	+02.5	213	14.7	+02.4	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.7	N 29	13.3	Gienah	175	43.9	S 17	40.8
Ankaa	353	08.2	S 42	10.2	Acrux	173	00.2	S 63	14.2
Schedir	349	32.3	N 56	40.0	Gacrux	171	51.9	S 57	15.1
Diphda	348	48.2	S 17	51.3	Alioth	166	13.1	N 55	49.8
Achernar	335	21.2	S 57	06.7	Spica	158	22.6	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	51.9	N 49	11.5
Polaris	314	51.0	N 89	22.0	Hadar	148	36.2	S 60	29.5
Acamar	315	12.6	S 40	12.5	Menkent	147	57.6	S 36	29.2
Menkar	314	07.1	N 04	11.0	Arcturus	145	47.7	N 19	04.1
Mirfak	308	29.6	N 49	56.8	Rigel Kentaurus	139	37.6	S 60	56.4
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.2	N 46	01.6	Kocab	137	18.5	N 74	03.3
Rigel	281	04.7	S 08	10.5	Alphecca	126	03.9	N 26	37.9
Bellatrix	278	23.8	N 06	22.3	Antares	112	16.3	S 26	29.2
Elnath	278	02.9	N 28	37.8	Atria	107	10.5	S 69	04.1
Alnilam	275	38.6	S 01	11.3	Sabik	102	03.2	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.8	S 37	07.2
Canopus	263	53.0	S 52	42.7	Rasalhague	95	58.9	N 12	32.4
Sirius	258	26.8	S 16	44.6	Etamin	90	42.1	N 51	28.8
Adhara	255	06.5	S 29	00.5	Kaus Australis	83	33.0	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.5	N 38	48.0
Procyon	244	51.3	N 05	10.1	Nunki	75	48.3	S 26	16.0
Pollux	243	17.8	N 27	58.2	Albireo	67	04.4	N 28	00.4
Avior	234	15.1	S 59	35.5	Altair	62	00.6	N 08	55.6
Suhail	222	46.7	S 43	32.1	Peacock	53	06.5	S 56	39.2
Miaplacidus	221	38.3	S 69	49.3	Deneb	49	26.2	N 45	21.7
Alphard	217	48.3	S 08	46.0	Enif	33	39.4	N 09	59.0
Regulus	207	34.9	N 11	50.9	Alnair	27	33.8	S 46	50.4
Dubhe	193	41.2	N 61	37.4	Formalhaut	15	15.5	S 29	29.5
Denebola	182	25.2	N 14	26.2	Markab	13	30.7	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 131 of 366		day 132 of 366		day 133 of 366		day 134 of 366		day 135 of 366		UT					
	May 10		May 11		May 12		May 13		May 14							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	228	17.1	+02.5	229	16.3	+02.4	230	15.4	+02.5	231	14.5	+02.5	232	13.7	+02.5	00
01	243	19.6	+02.5	244	18.7	+02.5	245	17.9	+02.4	246	17.0	+02.5	247	16.2	+02.4	01
02	258	22.1	+02.4	259	21.2	+02.5	260	20.3	+02.5	261	19.5	+02.4	262	18.6	+02.5	02
03	273	24.5	+02.5	274	23.7	+02.4	275	22.8	+02.5	276	21.9	+02.5	277	21.1	+02.4	03
04	288	27.0	+02.4	289	26.1	+02.5	290	25.3	+02.4	291	24.4	+02.5	292	23.5	+02.5	04
05	303	29.4	+02.5	304	28.6	+02.5	305	27.7	+02.5	306	26.9	+02.4	307	26.0	+02.5	05
06	318	31.9	+02.5	319	31.1	+02.4	320	30.2	+02.5	321	29.3	+02.5	322	28.5	+02.4	06
07	333	34.4	+02.4	334	33.5	+02.5	335	32.7	+02.4	336	31.8	+02.5	337	30.9	+02.5	07
08	348	36.8	+02.5	349	36.0	+02.4	350	35.1	+02.5	351	34.3	+02.4	352	33.4	+02.5	08
09	3	39.3	+02.5	4	38.4	+02.5	5	37.6	+02.5	6	36.7	+02.5	7	35.9	+02.4	09
10	18	41.8	+02.4	19	40.9	+02.5	20	40.1	+02.4	21	39.2	+02.5	22	38.3	+02.5	10
11	33	44.2	+02.5	34	43.4	+02.4	35	42.5	+02.5	36	41.7	+02.4	37	40.8	+02.5	11
12	48	46.7	+02.5	49	45.8	+02.5	50	45.0	+02.4	51	44.1	+02.5	52	43.3	+02.4	12
13	63	49.2	+02.4	64	48.3	+02.5	65	47.4	+02.5	66	46.6	+02.4	67	45.7	+02.5	13
14	78	51.6	+02.5	79	50.8	+02.4	80	49.9	+02.5	81	49.0	+02.5	82	48.2	+02.5	14
15	93	54.1	+02.5	94	53.2	+02.5	95	52.4	+02.4	96	51.5	+02.5	97	50.7	+02.4	15
16	108	56.6	+02.4	109	55.7	+02.5	110	54.8	+02.5	111	54.0	+02.4	112	53.1	+02.5	16
17	123	59.0	+02.5	124	58.2	+02.4	125	57.3	+02.5	126	56.4	+02.5	127	55.6	+02.4	17
18	139	01.5	+02.4	140	00.6	+02.5	140	59.8	+02.4	141	58.9	+02.5	142	58.0	+02.5	18
19	154	03.9	+02.5	155	03.1	+02.5	156	02.2	+02.5	157	01.4	+02.4	158	00.5	+02.5	19
20	169	06.4	+02.5	170	05.6	+02.4	171	04.7	+02.5	172	03.8	+02.5	173	03.0	+02.4	20
21	184	08.9	+02.4	185	08.0	+02.5	186	07.2	+02.4	187	06.3	+02.5	188	05.4	+02.5	21
22	199	11.3	+02.5	200	10.5	+02.4	201	09.6	+02.5	202	08.8	+02.4	203	07.9	+02.5	22
23	214	13.8	+02.5	215	12.9	+02.5	216	12.1	+02.4	217	11.2	+02.5	218	10.4	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.7	N 29	13.3	Gienah	175	43.9	S 17	40.8
Ankaa	353	08.1	S 42	10.2	Acrux	173	00.3	S 63	14.3
Schedir	349	32.2	N 56	40.0	Gacrux	171	51.9	S 57	15.1
Diphda	348	48.2	S 17	51.2	Alioth	166	13.1	N 55	49.8
Achernar	335	21.2	S 57	06.7	Spica	158	22.6	S 11	17.4
Hamal	327	52.3	N 23	34.6	Alkaid	152	51.9	N 49	11.6
Polaris	314	50.3	N 89	22.0	Hadar	148	36.2	S 60	29.5
Acamar	315	12.6	S 40	12.5	Menkent	147	57.6	S 36	29.2
Menkar	314	07.1	N 04	11.1	Arcturus	145	47.7	N 19	04.1
Mirfak	308	29.6	N 49	56.8	Rigel Kentaurus	139	37.6	S 60	56.4
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.2	N 46	01.6	Kocab	137	18.5	N 74	03.3
Rigel	281	04.7	S 08	10.5	Alphecca	126	03.9	N 26	37.9
Bellatrix	278	23.8	N 06	22.3	Antares	112	16.3	S 26	29.2
Elnath	278	02.9	N 28	37.8	Atria	107	10.5	S 69	04.2
Alnilam	275	38.6	S 01	11.2	Sabik	102	03.2	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.8	S 37	07.2
Canopus	263	53.1	S 52	42.7	Rasalhague	95	58.8	N 12	32.5
Sirius	258	26.8	S 16	44.6	Etamin	90	42.0	N 51	28.9
Adhara	255	06.5	S 29	00.4	Kaus Australis	83	33.0	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.4	N 38	48.0
Procyon	244	51.4	N 05	10.1	Nunki	75	48.3	S 26	15.9
Pollux	243	17.8	N 27	58.2	Albireo	67	04.4	N 28	00.4
Avior	234	15.2	S 59	35.5	Altair	62	00.6	N 08	55.6
Suhail	222	46.8	S 43	32.1	Peacock	53	06.5	S 56	39.2
Miaplacidus	221	38.3	S 69	49.3	Deneb	49	26.1	N 45	21.7
Alphard	217	48.3	S 08	46.0	Enif	33	39.4	N 09	59.0
Regulus	207	34.9	N 11	50.9	Alnair	27	33.8	S 46	50.4
Dubhe	193	41.3	N 61	37.4	Formalhaut	15	15.4	S 29	29.5
Denebola	182	25.2	N 14	26.2	Markab	13	30.6	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 136 of 366			day 137 of 366			day 138 of 366			day 139 of 366			day 140 of 366			UT
	May 15			May 16			May 17			May 18			May 19			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	233	12.8	+02.5	234	12.0	+02.4	235	11.1	+02.5	236	10.2	+02.5	237	09.4	+02.4	00
01	248	15.3	+02.5	249	14.4	+02.5	250	13.6	+02.4	251	12.7	+02.5	252	11.8	+02.5	01
02	263	17.8	+02.4	264	16.9	+02.5	265	16.0	+02.5	266	15.2	+02.4	267	14.3	+02.5	02
03	278	20.2	+02.5	279	19.4	+02.4	280	18.5	+02.5	281	17.6	+02.5	282	16.8	+02.4	03
04	293	22.7	+02.4	294	21.8	+02.5	295	21.0	+02.4	296	20.1	+02.5	297	19.2	+02.5	04
05	308	25.1	+02.5	309	24.3	+02.5	310	23.4	+02.5	311	22.6	+02.4	312	21.7	+02.5	05
06	323	27.6	+02.5	324	26.8	+02.4	325	25.9	+02.5	326	25.0	+02.5	327	24.2	+02.4	06
07	338	30.1	+02.4	339	29.2	+02.5	340	28.4	+02.4	341	27.5	+02.5	342	26.6	+02.5	07
08	353	32.5	+02.5	354	31.7	+02.4	355	30.8	+02.5	356	30.0	+02.4	357	29.1	+02.5	08
09	8	35.0	+02.5	9	34.1	+02.5	10	33.3	+02.4	11	32.4	+02.5	12	31.6	+02.4	09
10	23	37.5	+02.4	24	36.6	+02.5	25	35.7	+02.5	26	34.9	+02.4	27	34.0	+02.5	10
11	38	39.9	+02.5	39	39.1	+02.4	40	38.2	+02.5	41	37.3	+02.5	42	36.5	+02.4	11
12	53	42.4	+02.5	54	41.5	+02.5	55	40.7	+02.4	56	39.8	+02.5	57	38.9	+02.5	12
13	68	44.9	+02.4	69	44.0	+02.5	70	43.1	+02.5	71	42.3	+02.4	72	41.4	+02.5	13
14	83	47.3	+02.5	84	46.5	+02.4	85	45.6	+02.5	86	44.7	+02.5	87	43.9	+02.4	14
15	98	49.8	+02.5	99	48.9	+02.5	100	48.1	+02.4	101	47.2	+02.5	102	46.3	+02.5	15
16	113	52.3	+02.4	114	51.4	+02.5	115	50.5	+02.5	116	49.7	+02.4	117	48.8	+02.5	16
17	128	54.7	+02.5	129	53.9	+02.4	130	53.0	+02.5	131	52.1	+02.5	132	51.3	+02.4	17
18	143	57.2	+02.4	144	56.3	+02.5	145	55.5	+02.4	146	54.6	+02.5	147	53.7	+02.5	18
19	158	59.6	+02.5	159	58.8	+02.4	160	57.9	+02.5	161	57.1	+02.4	162	56.2	+02.5	19
20	174	02.1	+02.5	175	01.2	+02.5	176	00.4	+02.5	176	59.5	+02.5	177	58.7	+02.4	20
21	189	04.6	+02.4	190	03.7	+02.5	191	02.9	+02.4	192	02.0	+02.5	193	01.1	+02.5	21
22	204	07.0	+02.5	205	06.2	+02.4	206	05.3	+02.5	207	04.5	+02.4	208	03.6	+02.5	22
23	219	09.5	+02.5	220	08.6	+02.5	221	07.8	+02.4	222	06.9	+02.5	223	06.1	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.6	N 29 13.3	Gienah	175 43.9	S 17 40.8
Ankaa	353 08.1	S 42 10.2	Acrux	173 00.3	S 63 14.3
Schedir	349 32.2	N 56 40.0	Gacrux	171 51.9	S 57 15.1
Diphda	348 48.2	S 17 51.2	Alioth	166 13.1	N 55 49.8
Achernar	335 21.2	S 57 06.7	Spica	158 22.6	S 11 17.4
Hamal	327 52.2	N 23 34.6	Alkaid	152 51.9	N 49 11.6
Polaris	314 49.6	N 89 21.9	Hadar	148 36.2	S 60 29.6
Acamar	315 12.6	S 40 12.4	Menkent	147 57.6	S 36 29.2
Menkar	314 07.1	N 04 11.1	Arcturus	145 47.7	N 19 04.1
Mirfak	308 29.6	N 49 56.8	Rigel Kentaurus	139 37.6	S 60 56.5
Aldebaran	290 40.6	N 16 33.5	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 23.2	N 46 01.6	Kocab	137 18.5	N 74 03.3
Rigel	281 04.7	S 08 10.5	Alphecca	126 03.9	N 26 37.9
Bellatrix	278 23.8	N 06 22.3	Antares	112 16.3	S 26 29.2
Elnath	278 02.9	N 28 37.8	Atria	107 10.4	S 69 04.2
Alnilam	275 38.6	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 53.0	N 07 24.7	Shaula	96 10.8	S 37 07.2
Canopus	263 53.1	S 52 42.7	Rasalhague	95 58.8	N 12 32.5
Sirius	258 26.8	S 16 44.6	Etamin	90 42.0	N 51 28.9
Adhara	255 06.6	S 29 00.4	Kaus Australis	83 32.9	S 34 22.3
Castor	245 57.9	N 31 50.2	Vega	80 33.4	N 38 48.0
Procyon	244 51.4	N 05 10.1	Nunki	75 48.2	S 26 15.9
Pollux	243 17.8	N 27 58.2	Albireo	67 04.3	N 28 00.4
Avior	234 15.2	S 59 35.5	Altair	62 00.5	N 08 55.6
Suhail	222 46.8	S 43 32.1	Peacock	53 06.4	S 56 39.2
Miaplacidus	221 38.4	S 69 49.3	Deneb	49 26.1	N 45 21.7
Alphard	217 48.3	S 08 45.9	Enif	33 39.4	N 09 59.0
Regulus	207 34.9	N 11 50.9	Alnair	27 33.7	S 46 50.4
Dubhe	193 41.3	N 61 37.4	Formalhaut	15 15.4	S 29 29.5
Denebola	182 25.2	N 14 26.2	Markab	13 30.6	N 15 20.0

2024 - First Point of Aries / Selected Stars

UT	day 141 of 366		day 142 of 366		day 143 of 366		day 144 of 366		day 145 of 366		UT					
	May 20		May 21		May 22		May 23		May 24							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	238	08.5	+02.5	239	07.7	+02.4	240	06.8	+02.5	241	05.9	+02.5	242	05.1	+02.4	00
01	253	11.0	+02.4	254	10.1	+02.5	255	09.3	+02.4	256	08.4	+02.5	257	07.5	+02.5	01
02	268	13.4	+02.5	269	12.6	+02.4	270	11.7	+02.5	271	10.9	+02.4	272	10.0	+02.5	02
03	283	15.9	+02.5	284	15.0	+02.5	285	14.2	+02.5	286	13.3	+02.5	287	12.5	+02.4	03
04	298	18.4	+02.4	299	17.5	+02.5	300	16.7	+02.4	301	15.8	+02.5	302	14.9	+02.5	04
05	313	20.8	+02.5	314	20.0	+02.4	315	19.1	+02.5	316	18.3	+02.4	317	17.4	+02.5	05
06	328	23.3	+02.5	329	22.4	+02.5	330	21.6	+02.4	331	20.7	+02.5	332	19.9	+02.4	06
07	343	25.8	+02.4	344	24.9	+02.5	345	24.0	+02.5	346	23.2	+02.4	347	22.3	+02.5	07
08	358	28.2	+02.5	359	27.4	+02.4	0	26.5	+02.5	1	25.6	+02.5	2	24.8	+02.5	08
09	13	30.7	+02.5	14	29.8	+02.5	15	29.0	+02.4	16	28.1	+02.5	17	27.3	+02.4	09
10	28	33.2	+02.4	29	32.3	+02.5	30	31.4	+02.5	31	30.6	+02.4	32	29.7	+02.5	10
11	43	35.6	+02.5	44	34.8	+02.4	45	33.9	+02.5	46	33.0	+02.5	47	32.2	+02.4	11
12	58	38.1	+02.5	59	37.2	+02.5	60	36.4	+02.4	61	35.5	+02.5	62	34.6	+02.5	12
13	73	40.6	+02.4	74	39.7	+02.5	75	38.8	+02.5	76	38.0	+02.4	77	37.1	+02.5	13
14	88	43.0	+02.5	89	42.2	+02.4	90	41.3	+02.5	91	40.4	+02.5	92	39.6	+02.4	14
15	103	45.5	+02.4	104	44.6	+02.5	105	43.8	+02.4	106	42.9	+02.5	107	42.0	+02.5	15
16	118	47.9	+02.5	119	47.1	+02.4	120	46.2	+02.5	121	45.4	+02.4	122	44.5	+02.5	16
17	133	50.4	+02.5	134	49.5	+02.5	135	48.7	+02.4	136	47.8	+02.5	137	47.0	+02.4	17
18	148	52.9	+02.4	149	52.0	+02.5	150	51.1	+02.5	151	50.3	+02.5	152	49.4	+02.5	18
19	163	55.3	+02.5	164	54.5	+02.4	165	53.6	+02.5	166	52.8	+02.4	167	51.9	+02.5	19
20	178	57.8	+02.5	179	56.9	+02.5	180	56.1	+02.4	181	55.2	+02.5	182	54.4	+02.4	20
21	194	00.3	+02.4	194	59.4	+02.5	195	58.5	+02.5	196	57.7	+02.4	197	56.8	+02.5	21
22	209	02.7	+02.5	210	01.9	+02.4	211	01.0	+02.5	212	00.1	+02.5	212	59.3	+02.5	22
23	224	05.2	+02.5	225	04.3	+02.5	226	03.5	+02.4	227	02.6	+02.5	228	01.8	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 35.6	N 29 13.3	Gienah	175 43.9	S 17 40.8
Ankaa	353 08.0	S 42 10.2	Acrux	173 00.3	S 63 14.3
Schedir	349 32.1	N 56 40.0	Gacrux	171 52.0	S 57 15.1
Diphda	348 48.2	S 17 51.2	Alioth	166 13.1	N 55 49.8
Achernar	335 21.1	S 57 06.6	Spica	158 22.6	S 11 17.4
Hamal	327 52.2	N 23 34.6	Alkaid	152 51.9	N 49 11.6
Polaris	314 49.0	N 89 21.9	Hadar	148 36.2	S 60 29.6
Acamar	315 12.6	S 40 12.4	Menkent	147 57.6	S 36 29.2
Menkar	314 07.0	N 04 11.1	Arcturus	145 47.7	N 19 04.1
Mirfak	308 29.6	N 49 56.8	Rigel Kentaurus	139 37.6	S 60 56.5
Aldebaran	290 40.6	N 16 33.5	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 23.2	N 46 01.5	Kocab	137 18.6	N 74 03.4
Rigel	281 04.7	S 08 10.5	Alphecca	126 03.9	N 26 37.9
Bellatrix	278 23.8	N 06 22.3	Antares	112 16.3	S 26 29.2
Elnath	278 02.9	N 28 37.8	Atria	107 10.4	S 69 04.2
Alnilam	275 38.6	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 53.0	N 07 24.7	Shaula	96 10.7	S 37 07.3
Canopus	263 53.1	S 52 42.6	Rasalhague	95 58.8	N 12 32.5
Sirius	258 26.8	S 16 44.6	Etamin	90 42.0	N 51 28.9
Adhara	255 06.6	S 29 00.4	Kaus Australis	83 32.9	S 34 22.3
Castor	245 57.9	N 31 50.2	Vega	80 33.4	N 38 48.0
Procyon	244 51.4	N 05 10.1	Nunki	75 48.2	S 26 15.9
Pollux	243 17.8	N 27 58.2	Albireo	67 04.3	N 28 00.4
Avior	234 15.3	S 59 35.5	Altair	62 00.5	N 08 55.7
Suhail	222 46.8	S 43 32.1	Peacock	53 06.3	S 56 39.2
Miaplacidus	221 38.5	S 69 49.3	Deneb	49 26.0	N 45 21.7
Alphard	217 48.4	S 08 45.9	Enif	33 39.3	N 09 59.0
Regulus	207 34.9	N 11 50.9	Alnair	27 33.7	S 46 50.4
Dubhe	193 41.4	N 61 37.5	Formalhaut	15 15.3	S 29 29.5
Denebola	182 25.2	N 14 26.2	Markab	13 30.6	N 15 20.0

2024 - First Point of Aries / Selected Stars

UT	day 146 of 366		day 147 of 366		day 148 of 366		day 149 of 366		day 150 of 366		UT
	May 25		May 26		May 27		May 28		May 29		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	243	04.2 +02.5	244	03.4 +02.4	245	02.5 +02.5	246	01.6 +02.5	247	00.8 +02.4	00
01	258	06.7 +02.4	259	05.8 +02.5	260	05.0 +02.4	261	04.1 +02.5	262	03.2 +02.5	01
02	273	09.1 +02.5	274	08.3 +02.4	275	07.4 +02.5	276	06.6 +02.4	277	05.7 +02.5	02
03	288	11.6 +02.5	289	10.7 +02.5	290	09.9 +02.5	291	09.0 +02.5	292	08.2 +02.4	03
04	303	14.1 +02.4	304	13.2 +02.5	305	12.4 +02.4	306	11.5 +02.5	307	10.6 +02.5	04
05	318	16.5 +02.5	319	15.7 +02.4	320	14.8 +02.5	321	14.0 +02.4	322	13.1 +02.5	05
06	333	19.0 +02.5	334	18.1 +02.5	335	17.3 +02.4	336	16.4 +02.5	337	15.6 +02.4	06
07	348	21.5 +02.4	349	20.6 +02.5	350	19.7 +02.5	351	18.9 +02.5	352	18.0 +02.5	07
08	3	23.9 +02.5	4	23.1 +02.4	5	22.2 +02.5	6	21.4 +02.4	7	20.5 +02.5	08
09	18	26.4 +02.5	19	25.5 +02.5	20	24.7 +02.4	21	23.8 +02.5	22	23.0 +02.4	09
10	33	28.9 +02.4	34	28.0 +02.5	35	27.1 +02.5	36	26.3 +02.4	37	25.4 +02.5	10
11	48	31.3 +02.5	49	30.5 +02.4	50	29.6 +02.5	51	28.7 +02.5	52	27.9 +02.4	11
12	63	33.8 +02.4	64	32.9 +02.5	65	32.1 +02.4	66	31.2 +02.5	67	30.3 +02.5	12
13	78	36.2 +02.5	79	35.4 +02.5	80	34.5 +02.5	81	33.7 +02.4	82	32.8 +02.5	13
14	93	38.7 +02.5	94	37.9 +02.4	95	37.0 +02.5	96	36.1 +02.5	97	35.3 +02.4	14
15	108	41.2 +02.4	109	40.3 +02.5	110	39.5 +02.4	111	38.6 +02.5	112	37.7 +02.5	15
16	123	43.6 +02.5	124	42.8 +02.4	125	41.9 +02.5	126	41.1 +02.4	127	40.2 +02.5	16
17	138	46.1 +02.5	139	45.2 +02.5	140	44.4 +02.5	141	43.5 +02.5	142	42.7 +02.4	17
18	153	48.6 +02.4	154	47.7 +02.5	155	46.9 +02.4	156	46.0 +02.5	157	45.1 +02.5	18
19	168	51.0 +02.5	169	50.2 +02.4	170	49.3 +02.5	171	48.5 +02.4	172	47.6 +02.5	19
20	183	53.5 +02.5	184	52.6 +02.5	185	51.8 +02.4	186	50.9 +02.5	187	50.1 +02.4	20
21	198	56.0 +02.4	199	55.1 +02.5	200	54.2 +02.5	201	53.4 +02.5	202	52.5 +02.5	21
22	213	58.4 +02.5	214	57.6 +02.4	215	56.7 +02.5	216	55.9 +02.4	217	55.0 +02.5	22
23	229	00.9 +02.5	230	00.0 +02.5	230	59.2 +02.4	231	58.3 +02.5	232	57.5 +02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.6	N 29 13.3	Gienah	175 43.9	S 17 40.8
Ankaa	353 08.0	S 42 10.1	Acrux	173 00.3	S 63 14.3
Schedir	349 32.1	N 56 40.0	Gacrux	171 52.0	S 57 15.1
Diphda	348 48.1	S 17 51.2	Alioth	166 13.2	N 55 49.9
Achernar	335 21.1	S 57 06.6	Spica	158 22.6	S 11 17.4
Hamal	327 52.2	N 23 34.6	Alkaid	152 52.0	N 49 11.6
Polaris	314 47.7	N 89 21.9	Hadar	148 36.2	S 60 29.6
Acamar	315 12.6	S 40 12.4	Menkent	147 57.6	S 36 29.2
Menkar	314 07.0	N 04 11.1	Arcturus	145 47.7	N 19 04.1
Mirfak	308 29.5	N 49 56.8	Rigel Kentaurus	139 37.6	S 60 56.5
Aldebaran	290 40.6	N 16 33.5	Zubenelgenubi	136 56.2	S 16 08.6
Capella	280 23.2	N 46 01.5	Kocab	137 18.6	N 74 03.4
Rigel	281 04.7	S 08 10.5	Alphecca	126 03.9	N 26 38.0
Bellatrix	278 23.8	N 06 22.3	Antares	112 16.2	S 26 29.2
Elnath	278 02.9	N 28 37.8	Atria	107 10.3	S 69 04.2
Alnilam	275 38.6	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 53.0	N 07 24.7	Shaula	96 10.7	S 37 07.3
Canopus	263 53.1	S 52 42.6	Rasalhague	95 58.8	N 12 32.5
Sirius	258 26.8	S 16 44.6	Etamin	90 41.9	N 51 28.9
Adhara	255 06.6	S 29 00.4	Kaus Australis	83 32.9	S 34 22.3
Castor	245 57.9	N 31 50.2	Vega	80 33.3	N 38 48.0
Procyon	244 51.4	N 05 10.1	Nunki	75 48.1	S 26 15.9
Pollux	243 17.9	N 27 58.2	Albireo	67 04.2	N 28 00.4
Avior	234 15.3	S 59 35.5	Altair	62 00.5	N 08 55.7
Suhail	222 46.9	S 43 32.1	Peacock	53 06.3	S 56 39.2
Miaplacidus	221 38.5	S 69 49.3	Deneb	49 26.0	N 45 21.7
Alphard	217 48.4	S 08 45.9	Enif	33 39.3	N 09 59.1
Regulus	207 34.9	N 11 50.9	Alnair	27 33.6	S 46 50.3
Dubhe	193 41.4	N 61 37.5	Formalhaut	15 15.3	S 29 29.4
Denebola	182 25.2	N 14 26.2	Markab	13 30.5	N 15 20.0

2024 - First Point of Aries / Selected Stars

UT	day 151 of 366			day 152 of 366			day 153 of 366			day 154 of 366			day 155 of 366			UT		
	May 30			May 31			June 1			June 2			June 3					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	247	59.9	+02.5	248	59.1	+02.4	249	58.2	+02.5	250	57.3	+02.5	251	56.5	+02.4	00		
01	263	02.4	+02.4	264	01.5	+02.5	265	00.7	+02.4	265	59.8	+02.5	266	58.9	+02.5	01		
02	278	04.8	+02.5	279	04.0	+02.4	280	03.1	+02.5	281	02.3	+02.4	282	01.4	+02.5	02		
03	293	07.3	+02.5	294	06.4	+02.5	295	05.6	+02.5	296	04.7	+02.5	297	03.9	+02.4	03		
04	308	09.8	+02.4	309	08.9	+02.5	310	08.1	+02.4	311	07.2	+02.5	312	06.3	+02.5	04		
05	323	12.2	+02.5	324	11.4	+02.4	325	10.5	+02.5	326	09.7	+02.4	327	08.8	+02.5	05		
06	338	14.7	+02.5	339	13.8	+02.5	340	13.0	+02.4	341	12.1	+02.5	342	11.3	+02.4	06		
07	353	17.2	+02.4	354	16.3	+02.5	355	15.4	+02.5	356	14.6	+02.4	357	13.7	+02.5	07		
08	8	19.6	+02.5	9	18.8	+02.4	10	17.9	+02.5	11	17.0	+02.5	12	16.2	+02.4	08		
09	23	22.1	+02.5	24	21.2	+02.5	25	20.4	+02.4	26	19.5	+02.5	27	18.6	+02.5	09		
10	38	24.6	+02.4	39	23.7	+02.5	40	22.8	+02.5	41	22.0	+02.4	42	21.1	+02.5	10		
11	53	27.0	+02.5	54	26.2	+02.4	55	25.3	+02.5	56	24.4	+02.5	57	23.6	+02.4	11		
12	68	29.5	+02.5	69	28.6	+02.5	70	27.8	+02.4	71	26.9	+02.5	72	26.0	+02.5	12		
13	83	32.0	+02.4	84	31.1	+02.5	85	30.2	+02.5	86	29.4	+02.4	87	28.5	+02.5	13		
14	98	34.4	+02.5	99	33.6	+02.4	100	32.7	+02.5	101	31.8	+02.5	102	31.0	+02.4	14		
15	113	36.9	+02.4	114	36.0	+02.5	115	35.2	+02.4	116	34.3	+02.5	117	33.4	+02.5	15		
16	128	39.3	+02.5	129	38.5	+02.4	130	37.6	+02.5	131	36.8	+02.4	132	35.9	+02.5	16		
17	143	41.8	+02.5	144	40.9	+02.5	145	40.1	+02.4	146	39.2	+02.5	147	38.4	+02.4	17		
18	158	44.3	+02.4	159	43.4	+02.5	160	42.5	+02.5	161	41.7	+02.4	162	40.8	+02.5	18		
19	173	46.7	+02.5	174	45.9	+02.4	175	45.0	+02.5	176	44.1	+02.5	177	43.3	+02.5	19		
20	188	49.2	+02.5	189	48.3	+02.5	190	47.5	+02.4	191	46.6	+02.5	192	45.8	+02.4	20		
21	203	51.7	+02.4	204	50.8	+02.5	205	49.9	+02.5	206	49.1	+02.4	207	48.2	+02.5	21		
22	218	54.1	+02.5	219	53.3	+02.4	220	52.4	+02.5	221	51.5	+02.5	222	50.7	+02.4	22		
23	233	56.6	+02.5	234	55.7	+02.5	235	54.9	+02.4	236	54.0	+02.5	237	53.1	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.5	N 29	13.4	Gienah	175	43.9	S 17	40.8
Ankaa	353	08.0	S 42	10.1	Acrux	173	00.4	S 63	14.3
Schedir	349	32.0	N 56	40.0	Gacrux	171	52.0	S 57	15.1
Diphda	348	48.1	S 17	51.2	Alioth	166	13.2	N 55	49.9
Achernar	335	21.0	S 57	06.6	Spica	158	22.6	S 11	17.4
Hamal	327	52.2	N 23	34.6	Alkaid	152	52.0	N 49	11.6
Polaris	314	46.5	N 89	21.9	Hadar	148	36.2	S 60	29.6
Acamar	315	12.5	S 40	12.4	Menkent	147	57.6	S 36	29.3
Menkar	314	07.0	N 04	11.1	Arcturus	145	47.7	N 19	04.1
Mirfak	308	29.5	N 49	56.7	Rigel Kentaurus	139	37.6	S 60	56.5
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	23.2	N 46	01.5	Kocab	137	18.6	N 74	03.4
Rigel	281	04.7	S 08	10.4	Alphecca	126	03.9	N 26	38.0
Bellatrix	278	23.8	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.9	N 28	37.8	Atria	107	10.3	S 69	04.3
Alnilam	275	38.6	S 01	11.2	Sabik	102	03.1	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.7	S 37	07.3
Canopus	263	53.1	S 52	42.6	Rasalhague	95	58.7	N 12	32.5
Sirius	258	26.8	S 16	44.5	Etamin	90	41.9	N 51	29.0
Adhara	255	06.6	S 29	00.4	Kaus Australis	83	32.8	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.3	N 38	48.1
Procyon	244	51.4	N 05	10.1	Nunki	75	48.1	S 26	15.9
Pollux	243	17.9	N 27	58.2	Albireo	67	04.2	N 28	00.4
Avior	234	15.3	S 59	35.5	Altair	62	00.4	N 08	55.7
Suhail	222	46.9	S 43	32.1	Peacock	53	06.2	S 56	39.2
Miaplacidus	221	38.6	S 69	49.3	Deneb	49	25.9	N 45	21.7
Alphard	217	48.4	S 08	45.9	Enif	33	39.2	N 09	59.1
Regulus	207	34.9	N 11	50.9	Alnair	27	33.5	S 46	50.3
Dubhe	193	41.4	N 61	37.5	Formalhaut	15	15.2	S 29	29.4
Denebola	182	25.2	N 14	26.2	Markab	13	30.5	N 15	20.0

2024 - First Point of Aries / Selected Stars

UT	day 156 of 366			day 157 of 366			day 158 of 366			day 159 of 366			day 160 of 366			UT		
	<i>June 4</i>			<i>June 5</i>			<i>June 6</i>			<i>June 7</i>			<i>June 8</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	252	55.6	+02.5	253	54.7	+02.5	254	53.9	+02.5	255	53.0	+02.5	256	52.2	+02.4	00		
01	267	58.1	+02.4	268	57.2	+02.5	269	56.4	+02.4	270	55.5	+02.5	271	54.6	+02.5	01		
02	283	00.5	+02.5	283	59.7	+02.4	284	58.8	+02.5	285	58.0	+02.4	286	57.1	+02.5	02		
03	298	03.0	+02.5	299	02.1	+02.5	300	01.3	+02.4	301	00.4	+02.5	301	59.6	+02.4	03		
04	313	05.5	+02.4	314	04.6	+02.5	315	03.7	+02.5	316	02.9	+02.5	317	02.0	+02.5	04		
05	328	07.9	+02.5	329	07.1	+02.4	330	06.2	+02.5	331	05.4	+02.4	332	04.5	+02.5	05		
06	343	10.4	+02.5	344	09.5	+02.5	345	08.7	+02.4	346	07.8	+02.5	347	07.0	+02.4	06		
07	358	12.9	+02.4	359	12.0	+02.5	0	11.1	+02.5	1	10.3	+02.4	2	09.4	+02.5	07		
08	13	15.3	+02.5	14	14.5	+02.4	15	13.6	+02.5	16	12.7	+02.5	17	11.9	+02.5	08		
09	28	17.8	+02.5	29	16.9	+02.5	30	16.1	+02.4	31	15.2	+02.5	32	14.4	+02.4	09		
10	43	20.3	+02.4	44	19.4	+02.5	45	18.5	+02.5	46	17.7	+02.4	47	16.8	+02.5	10		
11	58	22.7	+02.5	59	21.9	+02.4	60	21.0	+02.5	61	20.1	+02.5	62	19.3	+02.4	11		
12	73	25.2	+02.4	74	24.3	+02.5	75	23.5	+02.4	76	22.6	+02.5	77	21.7	+02.5	12		
13	88	27.6	+02.5	89	26.8	+02.4	90	25.9	+02.5	91	25.1	+02.4	92	24.2	+02.5	13		
14	103	30.1	+02.5	104	29.2	+02.5	105	28.4	+02.5	106	27.5	+02.5	107	26.7	+02.4	14		
15	118	32.6	+02.4	119	31.7	+02.5	120	30.9	+02.4	121	30.0	+02.5	122	29.1	+02.5	15		
16	133	35.0	+02.5	134	34.2	+02.4	135	33.3	+02.5	136	32.5	+02.4	137	31.6	+02.5	16		
17	148	37.5	+02.5	149	36.6	+02.5	150	35.8	+02.4	151	34.9	+02.5	152	34.1	+02.4	17		
18	163	40.0	+02.4	164	39.1	+02.5	165	38.2	+02.5	166	37.4	+02.5	167	36.5	+02.5	18		
19	178	42.4	+02.5	179	41.6	+02.4	180	40.7	+02.5	181	39.9	+02.4	182	39.0	+02.5	19		
20	193	44.9	+02.5	194	44.0	+02.5	195	43.2	+02.4	196	42.3	+02.5	197	41.5	+02.4	20		
21	208	47.4	+02.4	209	46.5	+02.5	210	45.6	+02.5	211	44.8	+02.4	212	43.9	+02.5	21		
22	223	49.8	+02.5	224	49.0	+02.4	225	48.1	+02.5	226	47.2	+02.5	227	46.4	+02.4	22		
23	238	52.3	+02.4	239	51.4	+02.5	240	50.6	+02.4	241	49.7	+02.5	242	48.8	+02.5	23		

	SHA	Dec		SHA	Dec				
	°	'	°	°	'				
Alpheratz	357	35.5	N 29	13.4	Gienah	175	44.0	S 17	40.8
Ankaa	353	07.9	S 42	10.1	Acrux	173	00.4	S 63	14.3
Schedir	349	32.0	N 56	40.0	Gacrux	171	52.0	S 57	15.1
Diphda	348	48.1	S 17	51.1	Alioth	166	13.2	N 55	49.9
Achernar	335	21.0	S 57	06.6	Spica	158	22.6	S 11	17.4
Hamal	327	52.1	N 23	34.6	Alkaid	152	52.0	N 49	11.7
Polaris	314	45.2	N 89	21.8	Hadar	148	36.2	S 60	29.6
Acamar	315	12.5	S 40	12.3	Menkent	147	57.6	S 36	29.3
Menkar	314	07.0	N 04	11.1	Arcturus	145	47.7	N 19	04.1
Mirfak	308	29.5	N 49	56.7	Rigel Kentaurus	139	37.6	S 60	56.5
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	23.2	N 46	01.5	Kocab	137	18.7	N 74	03.4
Rigel	281	04.7	S 08	10.4	Alphecca	126	03.9	N 26	38.0
Bellatrix	278	23.8	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.9	N 28	37.7	Atria	107	10.2	S 69	04.3
Alnilam	275	38.6	S 01	11.2	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.6	S 37	07.3
Canopus	263	53.2	S 52	42.6	Rasalhague	95	58.7	N 12	32.5
Sirius	258	26.8	S 16	44.5	Etamin	90	41.9	N 51	29.0
Adhara	255	06.6	S 29	00.4	Kaus Australis	83	32.8	S 34	22.3
Castor	245	58.0	N 31	50.2	Vega	80	33.3	N 38	48.1
Procyon	244	51.4	N 05	10.2	Nunki	75	48.1	S 26	15.9
Pollux	243	17.9	N 27	58.2	Albireo	67	04.2	N 28	00.5
Avior	234	15.4	S 59	35.5	Altair	62	00.4	N 08	55.7
Suhail	222	46.9	S 43	32.0	Peacock	53	06.2	S 56	39.2
Miaplacidus	221	38.7	S 69	49.3	Deneb	49	25.9	N 45	21.8
Alphard	217	48.4	S 08	45.9	Enif	33	39.2	N 09	59.1
Regulus	207	35.0	N 11	50.9	Alnair	27	33.5	S 46	50.3
Dubhe	193	41.5	N 61	37.5	Formalhaut	15	15.2	S 29	29.4
Denebola	182	25.2	N 14	26.3	Markab	13	30.4	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 161 of 366		day 162 of 366		day 163 of 366		day 164 of 366		day 165 of 366		UT					
	<i>June 9</i>		<i>June 10</i>		<i>June 11</i>		<i>June 12</i>		<i>June 13</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	257	51.3	+02.5	258	50.5	+02.4	259	49.6	+02.5	260	48.7	+02.5	261	47.9	+02.4	00
01	272	53.8	+02.4	273	52.9	+02.5	274	52.1	+02.4	275	51.2	+02.5	276	50.3	+02.5	01
02	287	56.2	+02.5	288	55.4	+02.4	289	54.5	+02.5	290	53.7	+02.4	291	52.8	+02.5	02
03	302	58.7	+02.5	303	57.8	+02.5	304	57.0	+02.5	305	56.1	+02.5	306	55.3	+02.4	03
04	318	01.2	+02.4	319	00.3	+02.5	319	59.5	+02.4	320	58.6	+02.5	321	57.7	+02.5	04
05	333	03.6	+02.5	334	02.8	+02.4	335	01.9	+02.5	336	01.1	+02.4	337	00.2	+02.5	05
06	348	06.1	+02.5	349	05.2	+02.5	350	04.4	+02.4	351	03.5	+02.5	352	02.7	+02.4	06
07	3	08.6	+02.4	4	07.7	+02.5	5	06.8	+02.5	6	06.0	+02.4	7	05.1	+02.5	07
08	18	11.0	+02.5	19	10.2	+02.4	20	09.3	+02.5	21	08.4	+02.5	22	07.6	+02.4	08
09	33	13.5	+02.5	34	12.6	+02.5	35	11.8	+02.4	36	10.9	+02.5	37	10.0	+02.5	09
10	48	16.0	+02.4	49	15.1	+02.5	50	14.2	+02.5	51	13.4	+02.4	52	12.5	+02.5	10
11	63	18.4	+02.5	64	17.6	+02.4	65	16.7	+02.5	66	15.8	+02.5	67	15.0	+02.4	11
12	78	20.9	+02.4	79	20.0	+02.5	80	19.2	+02.4	81	18.3	+02.5	82	17.4	+02.5	12
13	93	23.3	+02.5	94	22.5	+02.5	95	21.6	+02.5	96	20.8	+02.4	97	19.9	+02.5	13
14	108	25.8	+02.5	109	25.0	+02.4	110	24.1	+02.5	111	23.2	+02.5	112	22.4	+02.4	14
15	123	28.3	+02.4	124	27.4	+02.5	125	26.6	+02.4	126	25.7	+02.5	127	24.8	+02.5	15
16	138	30.7	+02.5	139	29.9	+02.4	140	29.0	+02.5	141	28.2	+02.4	142	27.3	+02.5	16
17	153	33.2	+02.5	154	32.3	+02.5	155	31.5	+02.4	156	30.6	+02.5	157	29.8	+02.4	17
18	168	35.7	+02.4	169	34.8	+02.5	170	33.9	+02.5	171	33.1	+02.5	172	32.2	+02.5	18
19	183	38.1	+02.5	184	37.3	+02.4	185	36.4	+02.5	186	35.6	+02.4	187	34.7	+02.5	19
20	198	40.6	+02.5	199	39.7	+02.5	200	38.9	+02.4	201	38.0	+02.5	202	37.2	+02.4	20
21	213	43.1	+02.4	214	42.2	+02.5	215	41.3	+02.5	216	40.5	+02.4	217	39.6	+02.5	21
22	228	45.5	+02.5	229	44.7	+02.4	230	43.8	+02.5	231	42.9	+02.5	232	42.1	+02.4	22
23	243	48.0	+02.5	244	47.1	+02.5	245	46.3	+02.4	246	45.4	+02.5	247	44.5	+02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.4	N 29	13.4	Gienah	175	44.0	S 17	40.8
Ankaa	353	07.9	S 42	10.1	Acrux	173	00.4	S 63	14.3
Schedir	349	31.9	N 56	40.0	Gacrux	171	52.1	S 57	15.2
Diphda	348	48.0	S 17	51.1	Alioth	166	13.3	N 55	49.9
Achernar	335	21.0	S 57	06.5	Spica	158	22.6	S 11	17.4
Hamal	327	52.1	N 23	34.6	Alkaid	152	52.0	N 49	11.7
Polaris	314	43.3	N 89	21.8	Hadar	148	36.3	S 60	29.6
Acamar	315	12.5	S 40	12.3	Menkent	147	57.6	S 36	29.3
Menkar	314	06.9	N 04	11.1	Arcturus	145	47.7	N 19	04.2
Mirfak	308	29.4	N 49	56.7	Rigel Kentaurus	139	37.6	S 60	56.6
Aldebaran	290	40.6	N 16	33.5	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	23.2	N 46	01.5	Kocab	137	18.7	N 74	03.4
Rigel	281	04.7	S 08	10.4	Alphecca	126	03.9	N 26	38.0
Bellatrix	278	23.7	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.9	N 28	37.7	Atria	107	10.2	S 69	04.3
Alnilam	275	38.6	S 01	11.2	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.6	S 37	07.3
Canopus	263	53.2	S 52	42.6	Rasalhague	95	58.7	N 12	32.6
Sirius	258	26.8	S 16	44.5	Etamin	90	41.9	N 51	29.0
Adhara	255	06.6	S 29	00.4	Kaus Australis	83	32.8	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.1
Procyon	244	51.4	N 05	10.2	Nunki	75	48.0	S 26	15.9
Pollux	243	17.9	N 27	58.1	Albireo	67	04.1	N 28	00.5
Avior	234	15.4	S 59	35.4	Altair	62	00.4	N 08	55.7
Suhail	222	46.9	S 43	32.0	Peacock	53	06.1	S 56	39.2
Miaplacidus	221	38.7	S 69	49.3	Deneb	49	25.9	N 45	21.8
Alphard	217	48.4	S 08	45.9	Enif	33	39.2	N 09	59.1
Regulus	207	35.0	N 11	50.9	Alnair	27	33.4	S 46	50.3
Dubhe	193	41.5	N 61	37.5	Formalhaut	15	15.2	S 29	29.4
Denebola	182	25.2	N 14	26.3	Markab	13	30.4	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 166 of 366		day 167 of 366		day 168 of 366		day 169 of 366		day 170 of 366		UT					
	<i>June 14</i>		<i>June 15</i>		<i>June 16</i>		<i>June 17</i>		<i>June 18</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	262	47.0	+02.5	263	46.1	+02.5	264	45.3	+02.5	265	44.4	+02.5	266	43.6	+02.4	00
01	277	49.5	+02.4	278	48.6	+02.5	279	47.8	+02.4	280	46.9	+02.5	281	46.0	+02.5	01
02	292	51.9	+02.5	293	51.1	+02.4	294	50.2	+02.5	295	49.4	+02.4	296	48.5	+02.5	02
03	307	54.4	+02.5	308	53.5	+02.5	309	52.7	+02.4	310	51.8	+02.5	311	51.0	+02.4	03
04	322	56.9	+02.4	323	56.0	+02.5	324	55.1	+02.5	325	54.3	+02.4	326	53.4	+02.5	04
05	337	59.3	+02.5	338	58.5	+02.4	339	57.6	+02.5	340	56.7	+02.5	341	55.9	+02.4	05
06	353	01.8	+02.5	354	00.9	+02.5	355	00.1	+02.4	355	59.2	+02.5	356	58.3	+02.5	06
07	8	04.3	+02.4	9	03.4	+02.5	10	02.5	+02.5	11	01.7	+02.4	12	00.8	+02.5	07
08	23	06.7	+02.5	24	05.9	+02.4	25	05.0	+02.5	26	04.1	+02.5	27	03.3	+02.4	08
09	38	09.2	+02.5	39	08.3	+02.5	40	07.5	+02.4	41	06.6	+02.5	42	05.7	+02.5	09
10	53	11.7	+02.4	54	10.8	+02.5	55	09.9	+02.5	56	09.1	+02.4	57	08.2	+02.5	10
11	68	14.1	+02.5	69	13.3	+02.4	70	12.4	+02.5	71	11.5	+02.5	72	10.7	+02.4	11
12	83	16.6	+02.4	84	15.7	+02.5	85	14.9	+02.4	86	14.0	+02.5	87	13.1	+02.5	12
13	98	19.0	+02.5	99	18.2	+02.4	100	17.3	+02.5	101	16.5	+02.4	102	15.6	+02.5	13
14	113	21.5	+02.5	114	20.6	+02.5	115	19.8	+02.4	116	18.9	+02.5	117	18.1	+02.4	14
15	128	24.0	+02.4	129	23.1	+02.5	130	22.2	+02.5	131	21.4	+02.5	132	20.5	+02.5	15
16	143	26.4	+02.5	144	25.6	+02.4	145	24.7	+02.5	146	23.9	+02.4	147	23.0	+02.5	16
17	158	28.9	+02.5	159	28.0	+02.5	160	27.2	+02.4	161	26.3	+02.5	162	25.5	+02.4	17
18	173	31.4	+02.4	174	30.5	+02.5	175	29.6	+02.5	176	28.8	+02.4	177	27.9	+02.5	18
19	188	33.8	+02.5	189	33.0	+02.4	190	32.1	+02.5	191	31.2	+02.5	192	30.4	+02.4	19
20	203	36.3	+02.5	204	35.4	+02.5	205	34.6	+02.4	206	33.7	+02.5	207	32.8	+02.5	20
21	218	38.8	+02.4	219	37.9	+02.5	220	37.0	+02.5	221	36.2	+02.4	222	35.3	+02.5	21
22	233	41.2	+02.5	234	40.4	+02.4	235	39.5	+02.5	236	38.6	+02.5	237	37.8	+02.4	22
23	248	43.7	+02.4	249	42.8	+02.5	250	42.0	+02.4	251	41.1	+02.5	252	40.2	+02.5	23

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	35.4	N 29	13.4	Gienah	175	44.0	S 17	40.8
Ankaa	353	07.8	S 42	10.0	Acrux	173	00.5	S 63	14.3
Schedir	349	31.8	N 56	40.0	Gacrux	171	52.1	S 57	15.2
Diphda	348	48.0	S 17	51.1	Alioth	166	13.3	N 55	49.9
Achernar	335	20.9	S 57	06.5	Spica	158	22.6	S 11	17.4
Hamal	327	52.0	N 23	34.6	Alkaid	152	52.0	N 49	11.7
Polaris	314	41.7	N 89	21.8	Hadar	148	36.3	S 60	29.7
Acamar	315	12.4	S 40	12.3	Menkent	147	57.6	S 36	29.3
Menkar	314	06.9	N 04	11.1	Arcturus	145	47.7	N 19	04.2
Mirfak	308	29.4	N 49	56.7	Rigel Kentaurus	139	37.6	S 60	56.6
Aldebaran	290	40.5	N 16	33.5	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	23.1	N 46	01.5	Kocab	137	18.8	N 74	03.5
Rigel	281	04.7	S 08	10.4	Alphecca	126	03.9	N 26	38.0
Bellatrix	278	23.7	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.9	N 28	37.7	Atria	107	10.2	S 69	04.3
Alnilam	275	38.6	S 01	11.2	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.6	S 37	07.3
Canopus	263	53.2	S 52	42.5	Rasalhague	95	58.7	N 12	32.6
Sirius	258	26.8	S 16	44.5	Etamin	90	41.9	N 51	29.0
Adhara	255	06.6	S 29	00.3	Kaus Australis	83	32.7	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.1
Procyon	244	51.4	N 05	10.2	Nunki	75	48.0	S 26	15.9
Pollux	243	17.9	N 27	58.1	Albireo	67	04.1	N 28	00.5
Avior	234	15.4	S 59	35.4	Altair	62	00.3	N 08	55.7
Suhail	222	46.9	S 43	32.0	Peacock	53	06.0	S 56	39.2
Miaplacidus	221	38.8	S 69	49.3	Deneb	49	25.8	N 45	21.8
Alphard	217	48.4	S 08	45.9	Enif	33	39.1	N 09	59.1
Regulus	207	35.0	N 11	50.9	Alnair	27	33.4	S 46	50.3
Dubhe	193	41.6	N 61	37.5	Formalhaut	15	15.1	S 29	29.4
Denebola	182	25.2	N 14	26.3	Markab	13	30.4	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 171 of 366		day 172 of 366		day 173 of 366		day 174 of 366		day 175 of 366		UT					
	<i>June 19</i>		<i>June 20</i>		<i>June 21</i>		<i>June 22</i>		<i>June 23</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	267	42.7	+02.5	268	41.8	+02.5	269	41.0	+02.4	270	40.1	+02.5	271	39.3	+02.4	00
01	282	45.2	+02.4	283	44.3	+02.5	284	43.4	+02.5	285	42.6	+02.5	286	41.7	+02.5	01
02	297	47.6	+02.5	298	46.8	+02.4	299	45.9	+02.5	300	45.1	+02.4	301	44.2	+02.5	02
03	312	50.1	+02.5	313	49.2	+02.5	314	48.4	+02.4	315	47.5	+02.5	316	46.7	+02.4	03
04	327	52.6	+02.4	328	51.7	+02.5	329	50.8	+02.5	330	50.0	+02.4	331	49.1	+02.5	04
05	342	55.0	+02.5	343	54.2	+02.4	344	53.3	+02.5	345	52.4	+02.5	346	51.6	+02.5	05
06	357	57.5	+02.5	358	56.6	+02.5	359	55.8	+02.4	0	54.9	+02.5	1	54.1	+02.4	06
07	12	60.0	+02.4	13	59.1	+02.5	14	58.2	+02.5	15	57.4	+02.4	16	56.5	+02.5	07
08	28	02.4	+02.5	29	01.6	+02.4	30	00.7	+02.5	30	59.8	+02.5	31	59.0	+02.4	08
09	43	04.9	+02.4	44	04.0	+02.5	45	03.2	+02.4	46	02.3	+02.5	47	01.4	+02.5	09
10	58	07.3	+02.5	59	06.5	+02.4	60	05.6	+02.5	61	04.8	+02.4	62	03.9	+02.5	10
11	73	09.8	+02.5	74	08.9	+02.5	75	08.1	+02.5	76	07.2	+02.5	77	06.4	+02.4	11
12	88	12.3	+02.4	89	11.4	+02.5	90	10.6	+02.4	91	09.7	+02.5	92	08.8	+02.5	12
13	103	14.7	+02.5	104	13.9	+02.4	105	13.0	+02.5	106	12.2	+02.4	107	11.3	+02.5	13
14	118	17.2	+02.5	119	16.3	+02.5	120	15.5	+02.4	121	14.6	+02.5	122	13.8	+02.4	14
15	133	19.7	+02.4	134	18.8	+02.5	135	17.9	+02.5	136	17.1	+02.5	137	16.2	+02.5	15
16	148	22.1	+02.5	149	21.3	+02.4	150	20.4	+02.5	151	19.6	+02.4	152	18.7	+02.5	16
17	163	24.6	+02.5	164	23.7	+02.5	165	22.9	+02.4	166	22.0	+02.5	167	21.2	+02.4	17
18	178	27.1	+02.4	179	26.2	+02.5	180	25.3	+02.5	181	24.5	+02.4	182	23.6	+02.5	18
19	193	29.5	+02.5	194	28.7	+02.4	195	27.8	+02.5	196	26.9	+02.5	197	26.1	+02.5	19
20	208	32.0	+02.5	209	31.1	+02.5	210	30.3	+02.4	211	29.4	+02.5	212	28.6	+02.4	20
21	223	34.5	+02.4	224	33.6	+02.5	225	32.7	+02.5	226	31.9	+02.4	227	31.0	+02.5	21
22	238	36.9	+02.5	239	36.1	+02.4	240	35.2	+02.5	241	34.3	+02.5	242	33.5	+02.4	22
23	253	39.4	+02.4	254	38.5	+02.5	255	37.7	+02.4	256	36.8	+02.5	257	35.9	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.4	N 29	13.4	Gienah	175	44.0	S 17	40.8
Ankaa	353	07.8	S 42	10.0	Acrux	173	00.5	S 63	14.4
Schedir	349	31.8	N 56	40.0	Gacrux	171	52.1	S 57	15.2
Diphda	348	47.9	S 17	51.1	Alioth	166	13.3	N 55	49.9
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Hamal	327	52.0	N 23	34.6	Alkaid	152	52.1	N 49	11.7
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Acamar	315	12.4	S 40	12.2	Menkent	147	57.6	S 36	29.3
Menkar	314	06.9	N 04	11.1	Arcturus	145	47.7	N 19	04.2
Mirfak	308	29.4	N 49	56.7	Rigel Kentaurus	139	37.7	S 60	56.6
Aldebaran	290	40.5	N 16	33.6	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	23.1	N 46	01.5	Kocab	137	18.9	N 74	03.5
Rigel	281	04.7	S 08	10.4	Alphecca	126	03.9	N 26	38.0
Bellatrix	278	23.7	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.9	N 28	37.7	Atria	107	10.2	S 69	04.3
Alnilam	275	38.6	S 01	11.2	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	53.0	N 07	24.7	Shaula	96	10.6	S 37	07.3
Canopus	263	53.2	S 52	42.5	Rasalhague	95	58.7	N 12	32.6
Sirius	258	26.8	S 16	44.5	Etamin	90	41.9	N 51	29.1
Adhara	255	06.6	S 29	00.3	Kaus Australis	83	32.7	S 34	22.3
Castor	245	58.0	N 31	50.2	Vega	80	33.2	N 38	48.2
Procyon	244	51.4	N 05	10.2	Nunki	75	48.0	S 26	15.9
Pollux	243	17.9	N 27	58.1	Albireo	67	04.1	N 28	00.5
Avior	234	15.5	S 59	35.4	Altair	62	00.3	N 08	55.8
Suhail	222	47.0	S 43	32.0	Peacock	53	06.0	S 56	39.2
Miaplacidus	221	38.9	S 69	49.3	Deneb	49	25.8	N 45	21.8
Alphard	217	48.4	S 08	45.9	Enif	33	39.1	N 09	59.1
Regulus	207	35.0	N 11	50.9	Alnair	27	33.3	S 46	50.3
Dubhe	193	41.6	N 61	37.5	Formalhaut	15	15.1	S 29	29.4
Denebola	182	25.3	N 14	26.3	Markab	13	30.3	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 176 of 366		day 177 of 366		day 178 of 366		day 179 of 366		day 180 of 366		UT					
	<i>June 24</i>		<i>June 25</i>		<i>June 26</i>		<i>June 27</i>		<i>June 28</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	272	38.4	+02.5	273	37.5	+02.5	274	36.7	+02.5	275	35.8	+02.5	276	35.0	+02.4	00
01	287	40.9	+02.4	288	40.0	+02.5	289	39.2	+02.4	290	38.3	+02.5	291	37.4	+02.5	01
02	302	43.3	+02.5	303	42.5	+02.4	304	41.6	+02.5	305	40.8	+02.4	306	39.9	+02.5	02
03	317	45.8	+02.5	318	44.9	+02.5	319	44.1	+02.4	320	43.2	+02.5	321	42.4	+02.4	03
04	332	48.3	+02.4	333	47.4	+02.5	334	46.5	+02.5	335	45.7	+02.4	336	44.8	+02.5	04
05	347	50.7	+02.5	348	49.9	+02.4	349	49.0	+02.5	350	48.1	+02.5	351	47.3	+02.5	05
06	2	53.2	+02.5	3	52.3	+02.5	4	51.5	+02.4	5	50.6	+02.5	6	49.8	+02.4	06
07	17	55.7	+02.4	18	54.8	+02.5	19	53.9	+02.5	20	53.1	+02.4	21	52.2	+02.5	07
08	32	58.1	+02.5	33	57.3	+02.4	34	56.4	+02.5	35	55.5	+02.5	36	54.7	+02.4	08
09	48	00.6	+02.5	48	59.7	+02.5	49	58.9	+02.4	50	58.0	+02.5	51	57.1	+02.5	09
10	63	03.1	+02.4	64	02.2	+02.5	65	01.3	+02.5	66	00.5	+02.4	66	59.6	+02.5	10
11	78	05.5	+02.5	79	04.7	+02.4	80	03.8	+02.5	81	02.9	+02.5	82	02.1	+02.4	11
12	93	08.0	+02.4	94	07.1	+02.5	95	06.3	+02.4	96	05.4	+02.5	97	04.5	+02.5	12
13	108	10.4	+02.5	109	09.6	+02.4	110	08.7	+02.5	111	07.9	+02.4	112	07.0	+02.5	13
14	123	12.9	+02.5	124	12.0	+02.5	125	11.2	+02.5	126	10.3	+02.5	127	09.5	+02.4	14
15	138	15.4	+02.4	139	14.5	+02.5	140	13.7	+02.4	141	12.8	+02.5	142	11.9	+02.5	15
16	153	17.8	+02.5	154	17.0	+02.4	155	16.1	+02.5	156	15.3	+02.4	157	14.4	+02.5	16
17	168	20.3	+02.5	169	19.4	+02.5	170	18.6	+02.4	171	17.7	+02.5	172	16.9	+02.4	17
18	183	22.8	+02.4	184	21.9	+02.5	185	21.0	+02.5	186	20.2	+02.4	187	19.3	+02.5	18
19	198	25.2	+02.5	199	24.4	+02.4	200	23.5	+02.5	201	22.6	+02.5	202	21.8	+02.4	19
20	213	27.7	+02.5	214	26.8	+02.5	215	26.0	+02.4	216	25.1	+02.5	217	24.2	+02.5	20
21	228	30.2	+02.4	229	29.3	+02.5	230	28.4	+02.5	231	27.6	+02.4	232	26.7	+02.5	21
22	243	32.6	+02.5	244	31.8	+02.4	245	30.9	+02.5	246	30.0	+02.5	247	29.2	+02.4	22
23	258	35.1	+02.4	259	34.2	+02.5	260	33.4	+02.4	261	32.5	+02.5	262	31.6	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	35.3	N 29	13.4	Gienah	175	44.0	S 17	40.8
Ankaa	353	07.7	S 42	10.0	Acrux	173	00.6	S 63	14.4
Schedir	349	31.7	N 56	40.0	Gacrux	171	52.2	S 57	15.2
Diphda	348	47.9	S 17	51.1	Alioth	166	13.3	N 55	49.9
Achernar	335	20.8	S 57	06.5	Spica	158	22.7	S 11	17.4
Hamal	327	52.0	N 23	34.6	Alkaid	152	52.1	N 49	11.7
Polaris	314	37.5	N 89	21.8	Hadar	148	36.3	S 60	29.7
Acamar	315	12.4	S 40	12.2	Menkent	147	57.6	S 36	29.3
Menkar	314	06.9	N 04	11.2	Arcturus	145	47.7	N 19	04.2
Mirfak	308	29.3	N 49	56.7	Rigel Kentaurus	139	37.7	S 60	56.6
Aldebaran	290	40.5	N 16	33.6	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	23.1	N 46	01.5	Kocab	137	18.9	N 74	03.5
Rigel	281	04.6	S 08	10.4	Alphecca	126	03.9	N 26	38.1
Bellatrix	278	23.7	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.8	N 28	37.7	Atria	107	10.2	S 69	04.4
Alnilam	275	38.5	S 01	11.1	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.9	N 07	24.7	Shaula	96	10.6	S 37	07.3
Canopus	263	53.2	S 52	42.5	Rasalhague	95	58.7	N 12	32.6
Sirius	258	26.8	S 16	44.5	Etamin	90	41.8	N 51	29.1
Adhara	255	06.6	S 29	00.3	Kaus Australis	83	32.7	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.2
Procyon	244	51.4	N 05	10.2	Nunki	75	48.0	S 26	15.9
Pollux	243	17.9	N 27	58.1	Albireo	67	04.1	N 28	00.6
Avior	234	15.5	S 59	35.4	Altair	62	00.3	N 08	55.8
Suhail	222	47.0	S 43	32.0	Peacock	53	05.9	S 56	39.2
Miaplacidus	221	38.9	S 69	49.3	Deneb	49	25.7	N 45	21.9
Alphard	217	48.4	S 08	45.9	Enif	33	39.0	N 09	59.2
Regulus	207	35.0	N 11	50.9	Alnair	27	33.3	S 46	50.3
Dubhe	193	41.6	N 61	37.5	Formalhaut	15	15.0	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.3	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 181 of 366		day 182 of 366		day 183 of 366		day 184 of 366		day 185 of 366		UT					
	<i>June 29</i>		<i>June 30</i>		<i>July 1</i>		<i>July 2</i>		<i>July 3</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	277	34.1	+02.5	278	33.2	+02.5	279	32.4	+02.4	280	31.5	+02.5	281	30.7	+02.4	00
01	292	36.6	+02.4	293	35.7	+02.5	294	34.8	+02.5	295	34.0	+02.4	296	33.1	+02.5	01
02	307	39.0	+02.5	308	38.2	+02.4	309	37.3	+02.5	310	36.4	+02.5	311	35.6	+02.5	02
03	322	41.5	+02.5	323	40.6	+02.5	324	39.8	+02.4	325	38.9	+02.5	326	38.1	+02.4	03
04	337	44.0	+02.4	338	43.1	+02.5	339	42.2	+02.5	340	41.4	+02.4	341	40.5	+02.5	04
05	352	46.4	+02.5	353	45.6	+02.4	354	44.7	+02.5	355	43.8	+02.5	356	43.0	+02.4	05
06	7	48.9	+02.5	8	48.0	+02.5	9	47.2	+02.4	10	46.3	+02.5	11	45.4	+02.5	06
07	22	51.4	+02.4	23	50.5	+02.5	24	49.6	+02.5	25	48.8	+02.4	26	47.9	+02.5	07
08	37	53.8	+02.5	38	53.0	+02.4	39	52.1	+02.5	40	51.2	+02.5	41	50.4	+02.4	08
09	52	56.3	+02.4	53	55.4	+02.5	54	54.6	+02.4	55	53.7	+02.5	56	52.8	+02.5	09
10	67	58.7	+02.5	68	57.9	+02.4	69	57.0	+02.5	70	56.2	+02.4	71	55.3	+02.5	10
11	83	01.2	+02.5	84	00.3	+02.5	84	59.5	+02.4	85	58.6	+02.5	86	57.8	+02.4	11
12	98	03.7	+02.4	99	02.8	+02.5	100	01.9	+02.5	101	01.1	+02.5	102	00.2	+02.5	12
13	113	06.1	+02.5	114	05.3	+02.4	115	04.4	+02.5	116	03.6	+02.4	117	02.7	+02.5	13
14	128	08.6	+02.5	129	07.7	+02.5	130	06.9	+02.4	131	06.0	+02.5	132	05.2	+02.4	14
15	143	11.1	+02.4	144	10.2	+02.5	145	09.3	+02.5	146	08.5	+02.4	147	07.6	+02.5	15
16	158	13.5	+02.5	159	12.7	+02.4	160	11.8	+02.5	161	10.9	+02.5	162	10.1	+02.5	16
17	173	16.0	+02.5	174	15.1	+02.5	175	14.3	+02.4	176	13.4	+02.5	177	12.6	+02.4	17
18	188	18.5	+02.4	189	17.6	+02.5	190	16.7	+02.5	191	15.9	+02.4	192	15.0	+02.5	18
19	203	20.9	+02.5	204	20.1	+02.4	205	19.2	+02.5	206	18.3	+02.5	207	17.5	+02.4	19
20	218	23.4	+02.4	219	22.5	+02.5	220	21.7	+02.4	221	20.8	+02.5	222	19.9	+02.5	20
21	233	25.8	+02.5	234	25.0	+02.5	235	24.1	+02.5	236	23.3	+02.4	237	22.4	+02.5	21
22	248	28.3	+02.5	249	27.5	+02.4	250	26.6	+02.5	251	25.7	+02.5	252	24.9	+02.4	22
23	263	30.8	+02.4	264	29.9	+02.5	265	29.1	+02.4	266	28.2	+02.5	267	27.3	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	35.3	N 29	13.4	Gienah	175	44.0	S 17	40.8
Ankaa	353	07.7	S 42	10.0	Acrux	173	00.6	S 63	14.4
Schedir	349	31.6	N 56	40.0	Gacrux	171	52.2	S 57	15.2
Diphda	348	47.8	S 17	51.0	Alioth	166	13.4	N 55	49.9
Achernar	335	20.7	S 57	06.4	Spica	158	22.7	S 11	17.4
Hamal	327	51.9	N 23	34.6	Alkaid	152	52.1	N 49	11.7
Polaris	314	35.6	N 89	21.8	Hadar	148	36.4	S 60	29.7
Acamar	315	12.3	S 40	12.2	Menkent	147	57.7	S 36	29.3
Menkar	314	06.8	N 04	11.2	Arcturus	145	47.7	N 19	04.2
Mirfak	308	29.3	N 49	56.7	Rigel Kentaurus	139	37.7	S 60	56.6
Aldebaran	290	40.5	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.0	N 46	01.5	Kocab	137	19.0	N 74	03.5
Rigel	281	04.6	S 08	10.3	Alphecca	126	03.9	N 26	38.1
Bellatrix	278	23.7	N 06	22.3	Antares	112	16.2	S 26	29.2
Elnath	278	02.8	N 28	37.7	Atria	107	10.2	S 69	04.4
Alnilam	275	38.5	S 01	11.1	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.9	N 07	24.7	Shaula	96	10.6	S 37	07.3
Canopus	263	53.2	S 52	42.4	Rasalhague	95	58.7	N 12	32.6
Sirius	258	26.8	S 16	44.4	Etamin	90	41.8	N 51	29.1
Adhara	255	06.6	S 29	00.3	Kaus Australis	83	32.7	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.2
Procyon	244	51.4	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.8	N 27	58.1	Albireo	67	04.1	N 28	00.6
Avior	234	15.5	S 59	35.4	Altair	62	00.3	N 08	55.8
Suhail	222	47.0	S 43	32.0	Peacock	53	05.9	S 56	39.2
Miaplacidus	221	39.0	S 69	49.2	Deneb	49	25.7	N 45	21.9
Alphard	217	48.4	S 08	45.9	Enif	33	39.0	N 09	59.2
Regulus	207	35.0	N 11	51.0	Alnair	27	33.2	S 46	50.3
Dubhe	193	41.7	N 61	37.4	Formalhaut	15	15.0	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.2	N 15	20.1

2024 - First Point of Aries / Selected Stars

UT	day 186 of 366		day 187 of 366		day 188 of 366		day 189 of 366		day 190 of 366		UT					
	<i>July 4</i>		<i>July 5</i>		<i>July 6</i>		<i>July 7</i>		<i>July 8</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	282	29.8	+02.5	283	28.9	+02.5	284	28.1	+02.4	285	27.2	+02.5	286	26.4	+02.4	00
01	297	32.3	+02.4	298	31.4	+02.5	299	30.5	+02.5	300	29.7	+02.5	301	28.8	+02.5	01
02	312	34.7	+02.5	313	33.9	+02.4	314	33.0	+02.5	315	32.2	+02.4	316	31.3	+02.5	02
03	327	37.2	+02.5	328	36.3	+02.5	329	35.5	+02.4	330	34.6	+02.5	331	33.8	+02.4	03
04	342	39.7	+02.4	343	38.8	+02.5	344	37.9	+02.5	345	37.1	+02.4	346	36.2	+02.5	04
05	357	42.1	+02.5	358	41.3	+02.4	359	40.4	+02.5	0	39.5	+02.5	1	38.7	+02.5	05
06	12	44.6	+02.5	13	43.7	+02.5	14	42.9	+02.4	15	42.0	+02.5	16	41.2	+02.4	06
07	27	47.1	+02.4	28	46.2	+02.5	29	45.3	+02.5	30	44.5	+02.4	31	43.6	+02.5	07
08	42	49.5	+02.5	43	48.7	+02.4	44	47.8	+02.5	45	46.9	+02.5	46	46.1	+02.4	08
09	57	52.0	+02.4	58	51.1	+02.5	59	50.3	+02.4	60	49.4	+02.5	61	48.5	+02.5	09
10	72	54.4	+02.5	73	53.6	+02.4	74	52.7	+02.5	75	51.9	+02.4	76	51.0	+02.5	10
11	87	56.9	+02.5	88	56.0	+02.5	89	55.2	+02.5	90	54.3	+02.5	91	53.5	+02.4	11
12	102	59.4	+02.4	103	58.5	+02.5	104	57.7	+02.4	105	56.8	+02.5	106	55.9	+02.5	12
13	118	01.8	+02.5	119	01.0	+02.4	120	00.1	+02.5	120	59.3	+02.4	121	58.4	+02.5	13
14	133	04.3	+02.5	134	03.4	+02.5	135	02.6	+02.4	136	01.7	+02.5	137	00.9	+02.4	14
15	148	06.8	+02.4	149	05.9	+02.5	150	05.0	+02.5	151	04.2	+02.5	152	03.3	+02.5	15
16	163	09.2	+02.5	164	08.4	+02.4	165	07.5	+02.5	166	06.7	+02.4	167	05.8	+02.5	16
17	178	11.7	+02.5	179	10.8	+02.5	180	10.0	+02.4	181	09.1	+02.5	182	08.3	+02.4	17
18	193	14.2	+02.4	194	13.3	+02.5	195	12.4	+02.5	196	11.6	+02.4	197	10.7	+02.5	18
19	208	16.6	+02.5	209	15.8	+02.4	210	14.9	+02.5	211	14.0	+02.5	212	13.2	+02.4	19
20	223	19.1	+02.5	224	18.2	+02.5	225	17.4	+02.4	226	16.5	+02.5	227	15.6	+02.5	20
21	238	21.6	+02.4	239	20.7	+02.5	240	19.8	+02.5	241	19.0	+02.4	242	18.1	+02.5	21
22	253	24.0	+02.5	254	23.2	+02.4	255	22.3	+02.5	256	21.4	+02.5	257	20.6	+02.4	22
23	268	26.5	+02.4	269	25.6	+02.5	270	24.8	+02.4	271	23.9	+02.5	272	23.0	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	35.2	N 29	13.5	Gienah	175	44.0	S 17	40.7
Ankaa	353	07.6	S 42	10.0	Acrux	173	00.6	S 63	14.4
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Diphda	348	47.8	S 17	51.0	Alioth	166	13.4	N 55	49.9
Achernar	335	20.7	S 57	06.4	Spica	158	22.7	S 11	17.4
Hamal	327	51.9	N 23	34.6	Alkaid	152	52.1	N 49	11.7
Polaris	314	33.0	N 89	21.8	Hadar	148	36.4	S 60	29.7
Acamar	315	12.3	S 40	12.2	Menkent	147	57.7	S 36	29.3
Menkar	314	06.8	N 04	11.2	Arcturus	145	47.8	N 19	04.2
Mirfak	308	29.2	N 49	56.7	Rigel Kentaurus	139	37.7	S 60	56.6
Aldebaran	290	40.4	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.0	N 46	01.4	Kocab	137	19.1	N 74	03.5
Rigel	281	04.6	S 08	10.3	Alphecca	126	03.9	N 26	38.1
Bellatrix	278	23.6	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.8	N 28	37.7	Atria	107	10.2	S 69	04.4
Alnilam	275	38.5	S 01	11.1	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.9	N 07	24.7	Shaula	96	10.5	S 37	07.3
Canopus	263	53.2	S 52	42.4	Rasalhague	95	58.6	N 12	32.6
Sirius	258	26.8	S 16	44.4	Etamin	90	41.8	N 51	29.2
Adhara	255	06.6	S 29	00.3	Kaus Australis	83	32.7	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.2
Procyon	244	51.4	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.8	N 27	58.1	Albireo	67	04.0	N 28	00.6
Avior	234	15.5	S 59	35.3	Altair	62	00.2	N 08	55.8
Suhail	222	47.0	S 43	32.0	Peacock	53	05.8	S 56	39.2
Miaplacidus	221	39.0	S 69	49.2	Deneb	49	25.7	N 45	21.9
Alphard	217	48.4	S 08	45.9	Enif	33	39.0	N 09	59.2
Regulus	207	35.0	N 11	51.0	Alnair	27	33.2	S 46	50.3
Dubhe	193	41.7	N 61	37.4	Formalhaut	15	14.9	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.2	N 15	20.2

2024 - First Point of Aries / Selected Stars

UT	day 191 of 366		day 192 of 366		day 193 of 366		day 194 of 366		day 195 of 366		UT					
	<i>July 9</i>		<i>July 10</i>		<i>July 11</i>		<i>July 12</i>		<i>July 13</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	287	25.5	+02.5	288	24.6	+02.5	289	23.8	+02.4	290	22.9	+02.5	291	22.1	+02.4	00
01	302	28.0	+02.4	303	27.1	+02.5	304	26.2	+02.5	305	25.4	+02.4	306	24.5	+02.5	01
02	317	30.4	+02.5	318	29.6	+02.4	319	28.7	+02.5	320	27.8	+02.5	321	27.0	+02.4	02
03	332	32.9	+02.5	333	32.0	+02.5	334	31.2	+02.4	335	30.3	+02.5	336	29.4	+02.5	03
04	347	35.4	+02.4	348	34.5	+02.5	349	33.6	+02.5	350	32.8	+02.4	351	31.9	+02.5	04
05	2	37.8	+02.5	3	37.0	+02.4	4	36.1	+02.5	5	35.2	+02.5	6	34.4	+02.4	05
06	17	40.3	+02.5	18	39.4	+02.5	19	38.6	+02.4	20	37.7	+02.5	21	36.8	+02.5	06
07	32	42.8	+02.4	33	41.9	+02.5	34	41.0	+02.5	35	40.2	+02.4	36	39.3	+02.5	07
08	47	45.2	+02.5	48	44.4	+02.4	49	43.5	+02.5	50	42.6	+02.5	51	41.8	+02.4	08
09	62	47.7	+02.4	63	46.8	+02.5	64	46.0	+02.4	65	45.1	+02.5	66	44.2	+02.5	09
10	77	50.1	+02.5	78	49.3	+02.4	79	48.4	+02.5	80	47.6	+02.4	81	46.7	+02.5	10
11	92	52.6	+02.5	93	51.7	+02.5	94	50.9	+02.5	95	50.0	+02.5	96	49.2	+02.4	11
12	107	55.1	+02.4	108	54.2	+02.5	109	53.4	+02.4	110	52.5	+02.5	111	51.6	+02.5	12
13	122	57.5	+02.5	123	56.7	+02.4	124	55.8	+02.5	125	55.0	+02.4	126	54.1	+02.5	13
14	138	00.0	+02.5	138	59.1	+02.5	139	58.3	+02.4	140	57.4	+02.5	141	56.6	+02.4	14
15	153	02.5	+02.4	154	01.6	+02.5	155	00.7	+02.5	155	59.9	+02.4	156	59.0	+02.5	15
16	168	04.9	+02.5	169	04.1	+02.4	170	03.2	+02.5	171	02.3	+02.5	172	01.5	+02.4	16
17	183	07.4	+02.5	184	06.5	+02.5	185	05.7	+02.4	186	04.8	+02.5	187	03.9	+02.5	17
18	198	09.9	+02.4	199	09.0	+02.5	200	08.1	+02.5	201	07.3	+02.4	202	06.4	+02.5	18
19	213	12.3	+02.5	214	11.5	+02.4	215	10.6	+02.5	216	09.7	+02.5	217	08.9	+02.4	19
20	228	14.8	+02.5	229	13.9	+02.5	230	13.1	+02.4	231	12.2	+02.5	232	11.3	+02.5	20
21	243	17.3	+02.4	244	16.4	+02.5	245	15.5	+02.5	246	14.7	+02.4	247	13.8	+02.5	21
22	258	19.7	+02.5	259	18.9	+02.4	260	18.0	+02.5	261	17.1	+02.5	262	16.3	+02.4	22
23	273	22.2	+02.4	274	21.3	+02.5	275	20.5	+02.4	276	19.6	+02.5	277	18.7	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.2	N 29	13.5	Gienah	175	44.0	S 17	40.7
Ankaa	353	07.6	S 42	10.0	Acrux	173	00.7	S 63	14.4
Schedir	349	31.5	N 56	40.1	Gacrux	171	52.3	S 57	15.2
Diphda	348	47.8	S 17	51.0	Alioth	166	13.4	N 55	49.9
Achernar	335	20.6	S 57	06.4	Spica	158	22.7	S 11	17.4
Hamal	327	51.8	N 23	34.7	Alkaid	152	52.2	N 49	11.7
Polaris	314	30.6	N 89	21.8	Hadar	148	36.4	S 60	29.7
Acamar	315	12.3	S 40	12.2	Menkent	147	57.7	S 36	29.3
Menkar	314	06.7	N 04	11.2	Arcturus	145	47.8	N 19	04.2
Mirfak	308	29.2	N 49	56.7	Rigel Kentaurus	139	37.8	S 60	56.6
Aldebaran	290	40.4	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	23.0	N 46	01.4	Kocab	137	19.2	N 74	03.5
Rigel	281	04.6	S 08	10.3	Alphecca	126	03.9	N 26	38.1
Bellatrix	278	23.6	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.7	N 28	37.7	Atria	107	10.2	S 69	04.4
Alnilam	275	38.5	S 01	11.1	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.9	N 07	24.7	Shaula	96	10.5	S 37	07.3
Canopus	263	53.1	S 52	42.4	Rasalhague	95	58.6	N 12	32.7
Sirius	258	26.8	S 16	44.4	Etamin	90	41.8	N 51	29.2
Adhara	255	06.6	S 29	00.2	Kaus Australis	83	32.6	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.3
Procyon	244	51.4	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.8	N 27	58.1	Albireo	67	04.0	N 28	00.6
Avior	234	15.5	S 59	35.3	Altair	62	00.2	N 08	55.8
Suhail	222	47.0	S 43	31.9	Peacock	53	05.8	S 56	39.2
Miaplacidus	221	39.0	S 69	49.2	Deneb	49	25.7	N 45	21.9
Alphard	217	48.4	S 08	45.9	Enif	33	39.0	N 09	59.2
Regulus	207	35.0	N 11	51.0	Alnair	27	33.1	S 46	50.3
Dubhe	193	41.7	N 61	37.4	Formalhaut	15	14.9	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.2	N 15	20.2

2024 - First Point of Aries / Selected Stars

UT	day 196 of 366		day 197 of 366		day 198 of 366		day 199 of 366		day 200 of 366		UT
	<i>July 14</i>		<i>July 15</i>		<i>July 16</i>		<i>July 17</i>		<i>July 18</i>		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	292	21.2 +02.5	293	20.3 +02.5	294	19.5 +02.4	295	18.6 +02.5	296	17.8 +02.4	00
01	307	23.7 +02.4	308	22.8 +02.5	309	21.9 +02.5	310	21.1 +02.4	311	20.2 +02.5	01
02	322	26.1 +02.5	323	25.3 +02.4	324	24.4 +02.5	325	23.5 +02.5	326	22.7 +02.4	02
03	337	28.6 +02.5	338	27.7 +02.5	339	26.9 +02.4	340	26.0 +02.5	341	25.1 +02.5	03
04	352	31.1 +02.4	353	30.2 +02.5	354	29.3 +02.5	355	28.5 +02.4	356	27.6 +02.5	04
05	7	33.5 +02.5	8	32.7 +02.4	9	31.8 +02.5	10	30.9 +02.5	11	30.1 +02.4	05
06	22	36.0 +02.4	23	35.1 +02.5	24	34.3 +02.4	25	33.4 +02.5	26	32.5 +02.5	06
07	37	38.4 +02.5	38	37.6 +02.4	39	36.7 +02.5	40	35.9 +02.4	41	35.0 +02.5	07
08	52	40.9 +02.5	53	40.0 +02.5	54	39.2 +02.4	55	38.3 +02.5	56	37.5 +02.4	08
09	67	43.4 +02.4	68	42.5 +02.5	69	41.6 +02.5	70	40.8 +02.5	71	39.9 +02.5	09
10	82	45.8 +02.5	83	45.0 +02.4	84	44.1 +02.5	85	43.3 +02.4	86	42.4 +02.5	10
11	97	48.3 +02.5	98	47.4 +02.5	99	46.6 +02.4	100	45.7 +02.5	101	44.9 +02.4	11
12	112	50.8 +02.4	113	49.9 +02.5	114	49.0 +02.5	115	48.2 +02.4	116	47.3 +02.5	12
13	127	53.2 +02.5	128	52.4 +02.4	129	51.5 +02.5	130	50.6 +02.5	131	49.8 +02.5	13
14	142	55.7 +02.5	143	54.8 +02.5	144	54.0 +02.4	145	53.1 +02.5	146	52.3 +02.4	14
15	157	58.2 +02.4	158	57.3 +02.5	159	56.4 +02.5	160	55.6 +02.4	161	54.7 +02.5	15
16	173	00.6 +02.5	173	59.8 +02.4	174	58.9 +02.5	175	58.0 +02.5	176	57.2 +02.4	16
17	188	03.1 +02.4	189	02.2 +02.5	190	01.4 +02.4	191	00.5 +02.5	191	59.6 +02.5	17
18	203	05.5 +02.5	204	04.7 +02.5	205	03.8 +02.5	206	03.0 +02.4	207	02.1 +02.5	18
19	218	08.0 +02.5	219	07.2 +02.4	220	06.3 +02.5	221	05.4 +02.5	222	04.6 +02.4	19
20	233	10.5 +02.4	234	09.6 +02.5	235	08.8 +02.4	236	07.9 +02.5	237	07.0 +02.5	20
21	248	12.9 +02.5	249	12.1 +02.4	250	11.2 +02.5	251	10.4 +02.4	252	09.5 +02.5	21
22	263	15.4 +02.5	264	14.5 +02.5	265	13.7 +02.4	266	12.8 +02.5	267	12.0 +02.4	22
23	278	17.9 +02.4	279	17.0 +02.5	280	16.1 +02.5	281	15.3 +02.5	282	14.4 +02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 35.1	N 29 13.5	Gienah	175 44.1	S 17 40.7
Ankaa	353 07.5	S 42 10.0	Acrux	173 00.7	S 63 14.3
Schedir	349 31.5	N 56 40.1	Gacrux	171 52.3	S 57 15.2
Diphda	348 47.7	S 17 51.0	Alioth	166 13.5	N 55 49.9
Achernar	335 20.6	S 57 06.4	Spica	158 22.7	S 11 17.4
Hamal	327 51.8	N 23 34.7	Alkaid	152 52.2	N 49 11.7
Polaris	314 28.4	N 89 21.7	Hadar	148 36.5	S 60 29.7
Acamar	315 12.2	S 40 12.1	Menkent	147 57.7	S 36 29.3
Menkar	314 06.7	N 04 11.2	Arcturus	145 47.8	N 19 04.2
Mirfak	308 29.1	N 49 56.7	Rigel Kentaurus	139 37.8	S 60 56.6
Aldebaran	290 40.4	N 16 33.6	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 22.9	N 46 01.4	Kocab	137 19.2	N 74 03.5
Rigel	281 04.5	S 08 10.3	Alphecca	126 03.9	N 26 38.1
Bellatrix	278 23.6	N 06 22.4	Antares	112 16.2	S 26 29.2
Elnath	278 02.7	N 28 37.7	Atria	107 10.2	S 69 04.4
Alnilam	275 38.4	S 01 11.1	Sabik	102 03.0	S 15 45.4
Betelgeuze	270 52.8	N 07 24.8	Shaula	96 10.5	S 37 07.3
Canopus	263 53.1	S 52 42.4	Rasalhague	95 58.6	N 12 32.7
Sirius	258 26.7	S 16 44.4	Etamin	90 41.9	N 51 29.2
Adhara	255 06.6	S 29 00.2	Kaus Australis	83 32.6	S 34 22.3
Castor	245 57.9	N 31 50.2	Vega	80 33.2	N 38 48.3
Procyon	244 51.3	N 05 10.2	Nunki	75 47.9	S 26 15.9
Pollux	243 17.8	N 27 58.1	Albireo	67 04.0	N 28 00.7
Avior	234 15.6	S 59 35.3	Altair	62 00.2	N 08 55.8
Suhail	222 47.0	S 43 31.9	Peacock	53 05.8	S 56 39.2
Miaplacidus	221 39.1	S 69 49.2	Deneb	49 25.6	N 45 22.0
Alphard	217 48.4	S 08 45.9	Enif	33 38.9	N 09 59.2
Regulus	207 35.0	N 11 51.0	Alnair	27 33.1	S 46 50.3
Dubhe	193 41.8	N 61 37.4	Formalhaut	15 14.9	S 29 29.3
Denebola	182 25.3	N 14 26.3	Markab	13 30.1	N 15 20.2

2024 - First Point of Aries / Selected Stars

UT	day 201 of 366		day 202 of 366		day 203 of 366		day 204 of 366		day 205 of 366		UT					
	<i>July 19</i>		<i>July 20</i>		<i>July 21</i>		<i>July 22</i>		<i>July 23</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	297	16.9	+02.5	298	16.0	+02.5	299	15.2	+02.4	300	14.3	+02.5	301	13.5	+02.4	00
01	312	19.4	+02.4	313	18.5	+02.5	314	17.6	+02.5	315	16.8	+02.4	316	15.9	+02.5	01
02	327	21.8	+02.5	328	21.0	+02.4	329	20.1	+02.5	330	19.2	+02.5	331	18.4	+02.4	02
03	342	24.3	+02.5	343	23.4	+02.5	344	22.6	+02.4	345	21.7	+02.5	346	20.8	+02.5	03
04	357	26.8	+02.4	358	25.9	+02.5	359	25.0	+02.5	0	24.2	+02.4	1	23.3	+02.5	04
05	12	29.2	+02.5	13	28.4	+02.4	14	27.5	+02.5	15	26.6	+02.5	16	25.8	+02.4	05
06	27	31.7	+02.4	28	30.8	+02.5	29	30.0	+02.4	30	29.1	+02.5	31	28.2	+02.5	06
07	42	34.1	+02.5	43	33.3	+02.4	44	32.4	+02.5	45	31.6	+02.4	46	30.7	+02.5	07
08	57	36.6	+02.5	58	35.7	+02.5	59	34.9	+02.5	60	34.0	+02.5	61	33.2	+02.4	08
09	72	39.1	+02.4	73	38.2	+02.5	74	37.4	+02.4	75	36.5	+02.5	76	35.6	+02.5	09
10	87	41.5	+02.5	88	40.7	+02.4	89	39.8	+02.5	90	39.0	+02.4	91	38.1	+02.5	10
11	102	44.0	+02.5	103	43.1	+02.5	104	42.3	+02.4	105	41.4	+02.5	106	40.6	+02.4	11
12	117	46.5	+02.4	118	45.6	+02.5	119	44.7	+02.5	120	43.9	+02.5	121	43.0	+02.5	12
13	132	48.9	+02.5	133	48.1	+02.4	134	47.2	+02.5	135	46.4	+02.4	136	45.5	+02.5	13
14	147	51.4	+02.5	148	50.5	+02.5	149	49.7	+02.4	150	48.8	+02.5	151	48.0	+02.4	14
15	162	53.9	+02.4	163	53.0	+02.5	164	52.1	+02.5	165	51.3	+02.4	166	50.4	+02.5	15
16	177	56.3	+02.5	178	55.5	+02.4	179	54.6	+02.5	180	53.7	+02.5	181	52.9	+02.4	16
17	192	58.8	+02.4	193	57.9	+02.5	194	57.1	+02.4	195	56.2	+02.5	196	55.3	+02.5	17
18	208	01.2	+02.5	209	00.4	+02.5	209	59.5	+02.5	210	58.7	+02.4	211	57.8	+02.5	18
19	223	03.7	+02.5	224	02.9	+02.4	225	02.0	+02.5	226	01.1	+02.5	227	00.3	+02.4	19
20	238	06.2	+02.4	239	05.3	+02.5	240	04.5	+02.4	241	03.6	+02.5	242	02.7	+02.5	20
21	253	08.6	+02.5	254	07.8	+02.4	255	06.9	+02.5	256	06.1	+02.4	257	05.2	+02.5	21
22	268	11.1	+02.5	269	10.2	+02.5	270	09.4	+02.5	271	08.5	+02.5	272	07.7	+02.4	22
23	283	13.6	+02.4	284	12.7	+02.5	285	11.9	+02.4	286	11.0	+02.5	287	10.1	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.1	N 29	13.5	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.5	S 42	10.0	Acrux	173	00.8	S 63	14.3
Schedir	349	31.4	N 56	40.1	Gacrux	171	52.3	S 57	15.2
Diphda	348	47.7	S 17	51.0	Alioth	166	13.5	N 55	49.9
Achernar	335	20.5	S 57	06.4	Spica	158	22.7	S 11	17.4
Hamal	327	51.8	N 23	34.7	Alkaid	152	52.2	N 49	11.7
Polaris	314	25.5	N 89	21.7	Hadar	148	36.5	S 60	29.7
Acamar	315	12.2	S 40	12.1	Menkent	147	57.7	S 36	29.3
Menkar	314	06.7	N 04	11.2	Arcturus	145	47.8	N 19	04.2
Mirfak	308	29.1	N 49	56.7	Rigel Kentaurus	139	37.8	S 60	56.6
Aldebaran	290	40.3	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	22.9	N 46	01.4	Kocab	137	19.3	N 74	03.5
Rigel	281	04.5	S 08	10.3	Alphecca	126	03.9	N 26	38.1
Bellatrix	278	23.6	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.7	N 28	37.7	Atria	107	10.2	S 69	04.5
Alnilam	275	38.4	S 01	11.1	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.8	N 07	24.8	Shaula	96	10.5	S 37	07.3
Canopus	263	53.1	S 52	42.3	Rasalhague	95	58.6	N 12	32.7
Sirius	258	26.7	S 16	44.4	Etamin	90	41.9	N 51	29.2
Adhara	255	06.5	S 29	00.2	Kaus Australis	83	32.6	S 34	22.3
Castor	245	57.9	N 31	50.2	Vega	80	33.2	N 38	48.3
Procyon	244	51.3	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.8	N 27	58.1	Albireo	67	04.0	N 28	00.7
Avior	234	15.6	S 59	35.3	Altair	62	00.2	N 08	55.9
Suhail	222	47.0	S 43	31.9	Peacock	53	05.7	S 56	39.2
Miaplacidus	221	39.1	S 69	49.2	Deneb	49	25.6	N 45	22.0
Alphard	217	48.4	S 08	45.8	Enif	33	38.9	N 09	59.3
Regulus	207	35.0	N 11	51.0	Alnair	27	33.1	S 46	50.3
Dubhe	193	41.8	N 61	37.4	Formalhaut	15	14.8	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.1	N 15	20.2

2024 - First Point of Aries / Selected Stars

UT	day 206 of 366		day 207 of 366		day 208 of 366		day 209 of 366		day 210 of 366		UT		
	<i>July 24</i>		<i>July 25</i>		<i>July 26</i>		<i>July 27</i>		<i>July 28</i>				
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA			
	°	'	°	'	°	'	°	'	°	'			
00	302	12.6	+02.5	303	11.7	+02.5	304	10.9	+02.4	305	10.0	+02.5	00
01	317	15.1	+02.4	318	14.2	+02.5	319	13.3	+02.5	320	12.5	+02.4	01
02	332	17.5	+02.5	333	16.7	+02.4	334	15.8	+02.5	335	14.9	+02.5	02
03	347	20.0	+02.5	348	19.1	+02.5	349	18.3	+02.4	350	17.4	+02.5	03
04	2	22.5	+02.4	3	21.6	+02.5	4	20.7	+02.5	5	19.9	+02.4	04
05	17	24.9	+02.5	18	24.1	+02.4	19	23.2	+02.5	20	22.3	+02.5	05
06	32	27.4	+02.4	33	26.5	+02.5	34	25.7	+02.4	35	24.8	+02.5	06
07	47	29.8	+02.5	48	29.0	+02.4	49	28.1	+02.5	50	27.3	+02.4	07
08	62	32.3	+02.5	63	31.4	+02.5	64	30.6	+02.4	65	29.7	+02.5	08
09	77	34.8	+02.4	78	33.9	+02.5	79	33.0	+02.5	80	32.2	+02.4	09
10	92	37.2	+02.5	93	36.4	+02.4	94	35.5	+02.5	95	34.6	+02.5	10
11	107	39.7	+02.5	108	38.8	+02.5	109	38.0	+02.4	110	37.1	+02.5	11
12	122	42.2	+02.4	123	41.3	+02.5	124	40.4	+02.5	125	39.6	+02.4	12
13	137	44.6	+02.5	138	43.8	+02.4	139	42.9	+02.5	140	42.0	+02.5	13
14	152	47.1	+02.5	153	46.2	+02.5	154	45.4	+02.4	155	44.5	+02.5	14
15	167	49.6	+02.4	168	48.7	+02.5	169	47.8	+02.5	170	47.0	+02.4	15
16	182	52.0	+02.5	183	51.2	+02.4	184	50.3	+02.5	185	49.4	+02.5	16
17	197	54.5	+02.4	198	53.6	+02.5	199	52.8	+02.4	200	51.9	+02.5	17
18	212	56.9	+02.5	213	56.1	+02.5	214	55.2	+02.5	215	54.4	+02.4	18
19	227	59.4	+02.5	228	58.6	+02.4	229	57.7	+02.5	230	56.8	+02.5	19
20	243	01.9	+02.4	244	01.0	+02.5	245	00.2	+02.4	246	59.3	+02.5	20
21	258	04.3	+02.5	259	03.5	+02.4	260	02.6	+02.5	261	01.8	+02.4	21
22	273	06.8	+02.5	274	05.9	+02.5	275	05.1	+02.4	276	04.2	+02.5	22
23	288	09.3	+02.4	289	08.4	+02.5	290	07.5	+02.5	291	06.7	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	35.0	N 29	13.5	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.4	S 42	10.0	Acrux	173	00.8	S 63	14.3
Schedir	349	31.3	N 56	40.1	Gacrux	171	52.4	S 57	15.2
Diphda	348	47.6	S 17	51.0	Alioth	166	13.5	N 55	49.9
Achernar	335	20.4	S 57	06.4	Spica	158	22.7	S 11	17.4
Hamal	327	51.7	N 23	34.7	Alkaid	152	52.2	N 49	11.7
Polaris	314	23.0	N 89	21.7	Hadar	148	36.5	S 60	29.7
Acamar	315	12.1	S 40	12.1	Menkent	147	57.7	S 36	29.3
Menkar	314	06.6	N 04	11.3	Arcturus	145	47.8	N 19	04.2
Mirfak	308	29.0	N 49	56.7	Rigel Kentaurus	139	37.9	S 60	56.6
Aldebaran	290	40.3	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	22.8	N 46	01.4	Kocab	137	19.4	N 74	03.5
Rigel	281	04.5	S 08	10.3	Alphecca	126	03.9	N 26	38.1
Bellatrix	278	23.5	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.6	N 28	37.7	Atria	107	10.2	S 69	04.5
Alnilam	275	38.4	S 01	11.1	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.8	N 07	24.8	Shaula	96	10.5	S 37	07.3
Canopus	263	53.1	S 52	42.3	Rasalhague	95	58.6	N 12	32.7
Sirius	258	26.7	S 16	44.4	Etamin	90	41.9	N 51	29.2
Adhara	255	06.5	S 29	00.2	Kaus Australis	83	32.6	S 34	22.3
Castor	245	57.8	N 31	50.2	Vega	80	33.2	N 38	48.3
Procyon	244	51.3	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.8	N 27	58.1	Albireo	67	04.0	N 28	00.7
Avior	234	15.6	S 59	35.2	Altair	62	00.2	N 08	55.9
Suhail	222	47.0	S 43	31.9	Peacock	53	05.7	S 56	39.3
Miaplacidus	221	39.1	S 69	49.1	Deneb	49	25.6	N 45	22.0
Alphard	217	48.4	S 08	45.8	Enif	33	38.9	N 09	59.3
Regulus	207	35.0	N 11	51.0	Alnair	27	33.0	S 46	50.3
Dubhe	193	41.8	N 61	37.4	Formalhaut	15	14.8	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.1	N 15	20.2

2024 - First Point of Aries / Selected Stars

UT	day 211 of 366		day 212 of 366		day 213 of 366		day 214 of 366		day 215 of 366		UT					
	July 29		July 30		July 31		August 1		August 2							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	307	08.3	+02.4	308	07.4	+02.5	309	06.6	+02.4	310	05.7	+02.5	311	04.8	+02.5	00
01	322	10.7	+02.5	323	09.9	+02.5	324	09.0	+02.5	325	08.2	+02.4	326	07.3	+02.5	01
02	337	13.2	+02.5	338	12.4	+02.4	339	11.5	+02.5	340	10.6	+02.5	341	09.8	+02.4	02
03	352	15.7	+02.4	353	14.8	+02.5	354	14.0	+02.4	355	13.1	+02.5	356	12.2	+02.5	03
04	7	18.1	+02.5	8	17.3	+02.4	9	16.4	+02.5	10	15.6	+02.4	11	14.7	+02.5	04
05	22	20.6	+02.5	23	19.7	+02.5	24	18.9	+02.5	25	18.0	+02.5	26	17.2	+02.4	05
06	37	23.1	+02.4	38	22.2	+02.5	39	21.4	+02.4	40	20.5	+02.5	41	19.6	+02.5	06
07	52	25.5	+02.5	53	24.7	+02.4	54	23.8	+02.5	55	23.0	+02.4	56	22.1	+02.5	07
08	67	28.0	+02.5	68	27.1	+02.5	69	26.3	+02.4	70	25.4	+02.5	71	24.6	+02.4	08
09	82	30.5	+02.4	83	29.6	+02.5	84	28.7	+02.5	85	27.9	+02.4	86	27.0	+02.5	09
10	97	32.9	+02.5	98	32.1	+02.4	99	31.2	+02.5	100	30.3	+02.5	101	29.5	+02.5	10
11	112	35.4	+02.5	113	34.5	+02.5	114	33.7	+02.4	115	32.8	+02.5	116	32.0	+02.4	11
12	127	37.9	+02.4	128	37.0	+02.5	129	36.1	+02.5	130	35.3	+02.4	131	34.4	+02.5	12
13	142	40.3	+02.5	143	39.5	+02.4	144	38.6	+02.5	145	37.7	+02.5	146	36.9	+02.4	13
14	157	42.8	+02.4	158	41.9	+02.5	159	41.1	+02.4	160	40.2	+02.5	161	39.3	+02.5	14
15	172	45.2	+02.5	173	44.4	+02.5	174	43.5	+02.5	175	42.7	+02.4	176	41.8	+02.5	15
16	187	47.7	+02.5	188	46.9	+02.4	189	46.0	+02.5	190	45.1	+02.5	191	44.3	+02.4	16
17	202	50.2	+02.4	203	49.3	+02.5	204	48.5	+02.4	205	47.6	+02.5	206	46.7	+02.5	17
18	217	52.6	+02.5	218	51.8	+02.4	219	50.9	+02.5	220	50.1	+02.4	221	49.2	+02.5	18
19	232	55.1	+02.5	233	54.2	+02.5	234	53.4	+02.5	235	52.5	+02.5	236	51.7	+02.4	19
20	247	57.6	+02.4	248	56.7	+02.5	249	55.9	+02.4	250	55.0	+02.5	251	54.1	+02.5	20
21	263	00.0	+02.5	263	59.2	+02.4	264	58.3	+02.5	265	57.5	+02.4	266	56.6	+02.5	21
22	278	02.5	+02.5	279	01.6	+02.5	280	00.8	+02.4	280	59.9	+02.5	281	59.1	+02.4	22
23	293	05.0	+02.4	294	04.1	+02.5	295	03.2	+02.5	296	02.4	+02.4	297	01.5	+02.5	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 35.0	N 29 13.6	Gienah	175 44.1	S 17 40.7
Ankaa	353 07.4	S 42 10.0	Acrux	173 00.9	S 63 14.3
Schedir	349 31.3	N 56 40.1	Gacrux	171 52.4	S 57 15.1
Diphda	348 47.6	S 17 51.0	Alioth	166 13.6	N 55 49.9
Achernar	335 20.4	S 57 06.4	Spica	158 22.8	S 11 17.3
Hamal	327 51.7	N 23 34.7	Alkaid	152 52.3	N 49 11.7
Polaris	314 20.5	N 89 21.7	Hadar	148 36.6	S 60 29.7
Acamar	315 12.1	S 40 12.1	Menkent	147 57.8	S 36 29.3
Menkar	314 06.6	N 04 11.3	Arcturus	145 47.8	N 19 04.2
Mirfak	308 28.9	N 49 56.7	Rigel Kentaurus	139 37.9	S 60 56.6
Aldebaran	290 40.3	N 16 33.6	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 22.8	N 46 01.4	Kocab	137 19.5	N 74 03.5
Rigel	281 04.5	S 08 10.2	Alphecca	126 04.0	N 26 38.1
Bellatrix	278 23.5	N 06 22.4	Antares	112 16.2	S 26 29.2
Elnath	278 02.6	N 28 37.7	Atria	107 10.3	S 69 04.5
Alnilam	275 38.4	S 01 11.1	Sabik	102 03.0	S 15 45.4
Betelgeuze	270 52.8	N 07 24.8	Shaula	96 10.5	S 37 07.4
Canopus	263 53.1	S 52 42.3	Rasalhague	95 58.7	N 12 32.7
Sirius	258 26.7	S 16 44.3	Etamin	90 41.9	N 51 29.3
Adhara	255 06.5	S 29 00.1	Kaus Australis	83 32.6	S 34 22.4
Castor	245 57.8	N 31 50.2	Vega	80 33.2	N 38 48.4
Procyon	244 51.3	N 05 10.2	Nunki	75 47.9	S 26 15.9
Pollux	243 17.8	N 27 58.1	Albireo	67 04.0	N 28 00.7
Avior	234 15.6	S 59 35.2	Altair	62 00.2	N 08 55.9
Suhail	222 47.0	S 43 31.8	Peacock	53 05.7	S 56 39.3
Miaplacidus	221 39.1	S 69 49.1	Deneb	49 25.6	N 45 22.1
Alphard	217 48.4	S 08 45.8	Enif	33 38.9	N 09 59.3
Regulus	207 35.0	N 11 51.0	Alnair	27 33.0	S 46 50.3
Dubhe	193 41.8	N 61 37.4	Formalhaut	15 14.8	S 29 29.3
Denebola	182 25.3	N 14 26.3	Markab	13 30.0	N 15 20.3

2024 - First Point of Aries / Selected Stars

UT	day 216 of 366		day 217 of 366		day 218 of 366		day 219 of 366		day 220 of 366		UT					
	August 3		August 4		August 5		August 6		August 7							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	312	04.0	+02.5	313	03.1	+02.5	314	02.3	+02.4	315	01.4	+02.5	316	00.5	+02.5	00
01	327	06.5	+02.4	328	05.6	+02.5	329	04.7	+02.5	330	03.9	+02.4	331	03.0	+02.5	01
02	342	08.9	+02.5	343	08.1	+02.4	344	07.2	+02.5	345	06.3	+02.5	346	05.5	+02.4	02
03	357	11.4	+02.4	358	10.5	+02.5	359	09.7	+02.4	0	08.8	+02.5	1	07.9	+02.5	03
04	12	13.8	+02.5	13	13.0	+02.4	14	12.1	+02.5	15	11.3	+02.4	16	10.4	+02.5	04
05	27	16.3	+02.5	28	15.4	+02.5	29	14.6	+02.5	30	13.7	+02.5	31	12.9	+02.4	05
06	42	18.8	+02.4	43	17.9	+02.5	44	17.1	+02.4	45	16.2	+02.5	46	15.3	+02.5	06
07	57	21.2	+02.5	58	20.4	+02.4	59	19.5	+02.5	60	18.7	+02.4	61	17.8	+02.5	07
08	72	23.7	+02.5	73	22.8	+02.5	74	22.0	+02.4	75	21.1	+02.5	76	20.3	+02.4	08
09	87	26.2	+02.4	88	25.3	+02.5	89	24.4	+02.5	90	23.6	+02.4	91	22.7	+02.5	09
10	102	28.6	+02.5	103	27.8	+02.4	104	26.9	+02.5	105	26.0	+02.5	106	25.2	+02.4	10
11	117	31.1	+02.5	118	30.2	+02.5	119	29.4	+02.4	120	28.5	+02.5	121	27.6	+02.5	11
12	132	33.6	+02.4	133	32.7	+02.5	134	31.8	+02.5	135	31.0	+02.4	136	30.1	+02.5	12
13	147	36.0	+02.5	148	35.2	+02.4	149	34.3	+02.5	150	33.4	+02.5	151	32.6	+02.4	13
14	162	38.5	+02.5	163	37.6	+02.5	164	36.8	+02.4	165	35.9	+02.5	166	35.0	+02.5	14
15	177	41.0	+02.4	178	40.1	+02.5	179	39.2	+02.5	180	38.4	+02.4	181	37.5	+02.5	15
16	192	43.4	+02.5	193	42.6	+02.4	194	41.7	+02.5	195	40.8	+02.5	196	40.0	+02.4	16
17	207	45.9	+02.4	208	45.0	+02.5	209	44.2	+02.4	210	43.3	+02.5	211	42.4	+02.5	17
18	222	48.3	+02.5	223	47.5	+02.4	224	46.6	+02.5	225	45.8	+02.4	226	44.9	+02.5	18
19	237	50.8	+02.5	238	49.9	+02.5	239	49.1	+02.4	240	48.2	+02.5	241	47.4	+02.4	19
20	252	53.3	+02.4	253	52.4	+02.5	254	51.5	+02.5	255	50.7	+02.5	256	49.8	+02.5	20
21	267	55.7	+02.5	268	54.9	+02.4	269	54.0	+02.5	270	53.2	+02.4	271	52.3	+02.5	21
22	282	58.2	+02.5	283	57.3	+02.5	284	56.5	+02.4	285	55.6	+02.5	286	54.8	+02.4	22
23	298	00.7	+02.4	298	59.8	+02.5	299	58.9	+02.5	300	58.1	+02.4	301	57.2	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	35.0	N 29	13.6	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.3	S 42	09.9	Acrux	173	00.9	S 63	14.3
Schedir	349	31.2	N 56	40.1	Gacrux	171	52.4	S 57	15.1
Diphda	348	47.6	S 17	50.9	Alioth	166	13.6	N 55	49.9
Achernar	335	20.3	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.6	N 23	34.7	Alkaid	152	52.3	N 49	11.7
Polaris	314	17.5	N 89	21.7	Hadar	148	36.6	S 60	29.7
Acamar	315	12.0	S 40	12.1	Menkent	147	57.8	S 36	29.3
Menkar	314	06.5	N 04	11.3	Arcturus	145	47.8	N 19	04.2
Mirfak	308	28.9	N 49	56.7	Rigel Kentaurus	139	37.9	S 60	56.6
Aldebaran	290	40.2	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	22.7	N 46	01.4	Kocab	137	19.6	N 74	03.5
Rigel	281	04.4	S 08	10.2	Alphecca	126	04.0	N 26	38.1
Bellatrix	278	23.5	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.6	N 28	37.7	Atria	107	10.3	S 69	04.5
Alnilam	275	38.3	S 01	11.0	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.7	N 07	24.8	Shaula	96	10.5	S 37	07.4
Canopus	263	53.0	S 52	42.3	Rasalhague	95	58.7	N 12	32.7
Sirius	258	26.6	S 16	44.3	Etamin	90	41.9	N 51	29.3
Adhara	255	06.5	S 29	00.1	Kaus Australis	83	32.6	S 34	22.4
Castor	245	57.8	N 31	50.1	Vega	80	33.2	N 38	48.4
Procyon	244	51.3	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.7	N 27	58.1	Albireo	67	04.0	N 28	00.7
Avior	234	15.5	S 59	35.2	Altair	62	00.2	N 08	55.9
Suhail	222	47.0	S 43	31.8	Peacock	53	05.7	S 56	39.3
Miaplacidus	221	39.2	S 69	49.1	Deneb	49	25.6	N 45	22.1
Alphard	217	48.4	S 08	45.8	Enif	33	38.8	N 09	59.3
Regulus	207	35.0	N 11	51.0	Alnair	27	33.0	S 46	50.3
Dubhe	193	41.8	N 61	37.3	Formalhaut	15	14.7	S 29	29.3
Denebola	182	25.3	N 14	26.3	Markab	13	30.0	N 15	20.3

2024 - First Point of Aries / Selected Stars

UT	day 221 of 366			day 222 of 366			day 223 of 366			day 224 of 366			day 225 of 366			UT			
	August 8			August 9			August 10			August 11			August 12						
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA					
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	316	59.7	+02.4	317	58.8	+02.5	318	58.0	+02.4	319	57.1	+02.5	320	56.2	+02.5	00			
01	332	02.1	+02.5	333	01.3	+02.4	334	00.4	+02.5	334	59.6	+02.4	335	58.7	+02.5	01			
02	347	04.6	+02.5	348	03.7	+02.5	349	02.9	+02.4	350	02.0	+02.5	351	01.2	+02.4	02			
03	2	07.1	+02.4	3	06.2	+02.5	4	05.3	+02.5	5	04.5	+02.4	6	03.6	+02.5	03			
04	17	09.5	+02.5	18	08.7	+02.4	19	07.8	+02.5	20	06.9	+02.5	21	06.1	+02.5	04			
05	32	12.0	+02.5	33	11.1	+02.5	34	10.3	+02.4	35	09.4	+02.5	36	08.6	+02.4	05			
06	47	14.5	+02.4	48	13.6	+02.5	49	12.7	+02.5	50	11.9	+02.4	51	11.0	+02.5	06			
07	62	16.9	+02.5	63	16.1	+02.4	64	15.2	+02.5	65	14.3	+02.5	66	13.5	+02.4	07			
08	77	19.4	+02.5	78	18.5	+02.5	79	17.7	+02.4	80	16.8	+02.5	81	15.9	+02.5	08			
09	92	21.9	+02.4	93	21.0	+02.5	94	20.1	+02.5	95	19.3	+02.4	96	18.4	+02.5	09			
10	107	24.3	+02.5	108	23.5	+02.4	109	22.6	+02.5	110	21.7	+02.5	111	20.9	+02.4	10			
11	122	26.8	+02.4	123	25.9	+02.5	124	25.1	+02.4	125	24.2	+02.5	126	23.3	+02.5	11			
12	137	29.2	+02.5	138	28.4	+02.5	139	27.5	+02.5	140	26.7	+02.4	141	25.8	+02.5	12			
13	152	31.7	+02.5	153	30.9	+02.4	154	30.0	+02.5	155	29.1	+02.5	156	28.3	+02.4	13			
14	167	34.2	+02.4	168	33.3	+02.5	169	32.5	+02.4	170	31.6	+02.5	171	30.7	+02.5	14			
15	182	36.6	+02.5	183	35.8	+02.4	184	34.9	+02.5	185	34.1	+02.4	186	33.2	+02.5	15			
16	197	39.1	+02.5	198	38.2	+02.5	199	37.4	+02.4	200	36.5	+02.5	201	35.7	+02.4	16			
17	212	41.6	+02.4	213	40.7	+02.5	214	39.8	+02.5	215	39.0	+02.4	216	38.1	+02.5	17			
18	227	44.0	+02.5	228	43.2	+02.4	229	42.3	+02.5	230	41.4	+02.5	231	40.6	+02.4	18			
19	242	46.5	+02.5	243	45.6	+02.5	244	44.8	+02.4	245	43.9	+02.5	246	43.0	+02.5	19			
20	257	49.0	+02.4	258	48.1	+02.5	259	47.2	+02.5	260	46.4	+02.4	261	45.5	+02.5	20			
21	272	51.4	+02.5	273	50.6	+02.4	274	49.7	+02.5	275	48.8	+02.5	276	48.0	+02.4	21			
22	287	53.9	+02.5	288	53.0	+02.5	289	52.2	+02.4	290	51.3	+02.5	291	50.4	+02.5	22			
23	302	56.4	+02.4	303	55.5	+02.5	304	54.6	+02.5	305	53.8	+02.4	306	52.9	+02.5	23			

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.9	N 29	13.6	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.3	S 42	09.9	Acrux	173	00.9	S 63	14.3
Schedir	349	31.2	N 56	40.2	Gacrux	171	52.5	S 57	15.1
Diphda	348	47.5	S 17	50.9	Alioth	166	13.6	N 55	49.9
Achernar	335	20.3	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.6	N 23	34.8	Alkaid	152	52.3	N 49	11.7
Polaris	314	15.1	N 89	21.8	Hadar	148	36.6	S 60	29.7
Acamar	315	12.0	S 40	12.1	Menkent	147	57.8	S 36	29.3
Menkar	314	06.5	N 04	11.3	Arcturus	145	47.9	N 19	04.2
Mirfak	308	28.8	N 49	56.7	Rigel Kentaurus	139	38.0	S 60	56.6
Aldebaran	290	40.2	N 16	33.6	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	22.7	N 46	01.4	Kocab	137	19.7	N 74	03.5
Rigel	281	04.4	S 08	10.2	Alphecca	126	04.0	N 26	38.1
Bellatrix	278	23.4	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.5	N 28	37.7	Atria	107	10.4	S 69	04.5
Alnilam	275	38.3	S 01	11.0	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.7	N 07	24.8	Shaula	96	10.6	S 37	07.4
Canopus	263	53.0	S 52	42.2	Rasalhague	95	58.7	N 12	32.7
Sirius	258	26.6	S 16	44.3	Etamin	90	42.0	N 51	29.3
Adhara	255	06.5	S 29	00.1	Kaus Australis	83	32.6	S 34	22.4
Castor	245	57.8	N 31	50.1	Vega	80	33.2	N 38	48.4
Procyon	244	51.3	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.7	N 27	58.1	Albireo	67	04.0	N 28	00.8
Avior	234	15.5	S 59	35.2	Altair	62	00.2	N 08	55.9
Suhail	222	47.0	S 43	31.8	Peacock	53	05.7	S 56	39.3
Miaplacidus	221	39.2	S 69	49.1	Deneb	49	25.6	N 45	22.1
Alphard	217	48.4	S 08	45.8	Enif	33	38.8	N 09	59.3
Regulus	207	35.0	N 11	51.0	Alnair	27	32.9	S 46	50.3
Dubhe	193	41.8	N 61	37.3	Formalhaut	15	14.7	S 29	29.3
Denebola	182	25.4	N 14	26.3	Markab	13	30.0	N 15	20.3

2024 - First Point of Aries / Selected Stars

UT	day 226 of 366			day 227 of 366			day 228 of 366			day 229 of 366			day 230 of 366			UT		
	August 13			August 14			August 15			August 16			August 17					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	321	55.4	+02.4	322	54.5	+02.5	323	53.7	+02.4	324	52.8	+02.5	325	51.9	+02.5	00		
01	336	57.8	+02.5	337	57.0	+02.4	338	56.1	+02.5	339	55.3	+02.4	340	54.4	+02.5	01		
02	352	00.3	+02.5	352	59.4	+02.5	353	58.6	+02.4	354	57.7	+02.5	355	56.9	+02.4	02		
03	7	02.8	+02.4	8	01.9	+02.5	9	01.0	+02.5	10	00.2	+02.4	10	59.3	+02.5	03		
04	22	05.2	+02.5	23	04.4	+02.4	24	03.5	+02.5	25	02.6	+02.5	26	01.8	+02.5	04		
05	37	07.7	+02.5	38	06.8	+02.5	39	06.0	+02.4	40	05.1	+02.5	41	04.3	+02.4	05		
06	52	10.2	+02.4	53	09.3	+02.5	54	08.4	+02.5	55	07.6	+02.4	56	06.7	+02.5	06		
07	67	12.6	+02.5	68	11.8	+02.4	69	10.9	+02.5	70	10.0	+02.5	71	09.2	+02.4	07		
08	82	15.1	+02.4	83	14.2	+02.5	84	13.4	+02.4	85	12.5	+02.5	86	11.6	+02.5	08		
09	97	17.5	+02.5	98	16.7	+02.5	99	15.8	+02.5	100	15.0	+02.4	101	14.1	+02.5	09		
10	112	20.0	+02.5	113	19.2	+02.4	114	18.3	+02.5	115	17.4	+02.5	116	16.6	+02.4	10		
11	127	22.5	+02.4	128	21.6	+02.5	129	20.8	+02.4	130	19.9	+02.5	131	19.0	+02.5	11		
12	142	24.9	+02.5	143	24.1	+02.4	144	23.2	+02.5	145	22.4	+02.4	146	21.5	+02.5	12		
13	157	27.4	+02.5	158	26.5	+02.5	159	25.7	+02.4	160	24.8	+02.5	161	24.0	+02.4	13		
14	172	29.9	+02.4	173	29.0	+02.5	174	28.1	+02.5	175	27.3	+02.5	176	26.4	+02.5	14		
15	187	32.3	+02.5	188	31.5	+02.4	189	30.6	+02.5	190	29.8	+02.4	191	28.9	+02.5	15		
16	202	34.8	+02.5	203	33.9	+02.5	204	33.1	+02.4	205	32.2	+02.5	206	31.4	+02.4	16		
17	217	37.3	+02.4	218	36.4	+02.5	219	35.5	+02.5	220	34.7	+02.4	221	33.8	+02.5	17		
18	232	39.7	+02.5	233	38.9	+02.4	234	38.0	+02.5	235	37.1	+02.5	236	36.3	+02.5	18		
19	247	42.2	+02.5	248	41.3	+02.5	249	40.5	+02.4	250	39.6	+02.5	251	38.8	+02.4	19		
20	262	44.7	+02.4	263	43.8	+02.5	264	42.9	+02.5	265	42.1	+02.4	266	41.2	+02.5	20		
21	277	47.1	+02.5	278	46.3	+02.4	279	45.4	+02.5	280	44.5	+02.5	281	43.7	+02.4	21		
22	292	49.6	+02.4	293	48.7	+02.5	294	47.9	+02.4	295	47.0	+02.5	296	46.1	+02.5	22		
23	307	52.0	+02.5	308	51.2	+02.5	309	50.3	+02.5	310	49.5	+02.4	311	48.6	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.9	N 29	13.6	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.3	S 42	10.0	Acrux	173	01.0	S 63	14.3
Schedir	349	31.1	N 56	40.2	Gacrux	171	52.5	S 57	15.1
Diphda	348	47.5	S 17	50.9	Alioth	166	13.7	N 55	49.9
Achernar	335	20.2	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.6	N 23	34.8	Alkaid	152	52.4	N 49	11.7
Polaris	314	12.4	N 89	21.8	Hadar	148	36.7	S 60	29.7
Acamar	315	11.9	S 40	12.1	Menkent	147	57.8	S 36	29.3
Menkar	314	06.5	N 04	11.3	Arcturus	145	47.9	N 19	04.2
Mirfak	308	28.8	N 49	56.7	Rigel Kentaurus	139	38.0	S 60	56.6
Aldebaran	290	40.1	N 16	33.6	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	22.7	N 46	01.4	Kocab	137	19.8	N 74	03.5
Rigel	281	04.4	S 08	10.2	Alphecca	126	04.0	N 26	38.1
Bellatrix	278	23.4	N 06	22.4	Antares	112	16.2	S 26	29.2
Elnath	278	02.5	N 28	37.7	Atria	107	10.4	S 69	04.5
Alnilam	275	38.3	S 01	11.0	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.7	N 07	24.8	Shaula	96	10.6	S 37	07.4
Canopus	263	53.0	S 52	42.2	Rasalhague	95	58.7	N 12	32.7
Sirius	258	26.6	S 16	44.3	Etamin	90	42.0	N 51	29.3
Adhara	255	06.4	S 29	00.1	Kaus Australis	83	32.6	S 34	22.4
Castor	245	57.8	N 31	50.1	Vega	80	33.2	N 38	48.4
Procyon	244	51.2	N 05	10.2	Nunki	75	47.9	S 26	15.9
Pollux	243	17.7	N 27	58.1	Albireo	67	04.0	N 28	00.8
Avior	234	15.5	S 59	35.1	Altair	62	00.2	N 08	55.9
Suhail	222	47.0	S 43	31.8	Peacock	53	05.7	S 56	39.3
Miaplacidus	221	39.2	S 69	49.0	Deneb	49	25.6	N 45	22.1
Alphard	217	48.4	S 08	45.8	Enif	33	38.8	N 09	59.3
Regulus	207	35.0	N 11	51.0	Alnair	27	32.9	S 46	50.3
Dubhe	193	41.9	N 61	37.3	Formalhaut	15	14.7	S 29	29.3
Denebola	182	25.4	N 14	26.3	Markab	13	30.0	N 15	20.3

2024 - First Point of Aries / Selected Stars

UT	day 231 of 366 August 18			day 232 of 366 August 19			day 233 of 366 August 20			day 234 of 366 August 21			day 235 of 366 August 22			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	326	51.1	+02.4	327	50.2	+02.5	328	49.4	+02.4	329	48.5	+02.5	330	47.6	+02.5	00
01	341	53.5	+02.5	342	52.7	+02.4	343	51.8	+02.5	344	51.0	+02.4	345	50.1	+02.5	01
02	356	56.0	+02.5	357	55.1	+02.5	358	54.3	+02.4	359	53.4	+02.5	0	52.6	+02.4	02
03	11	58.5	+02.4	12	57.6	+02.5	13	56.7	+02.5	14	55.9	+02.4	15	55.0	+02.5	03
04	27	00.9	+02.5	28	00.1	+02.4	28	59.2	+02.5	29	58.3	+02.5	30	57.5	+02.4	04
05	42	03.4	+02.5	43	02.5	+02.5	44	01.7	+02.4	45	00.8	+02.5	45	59.9	+02.5	05
06	57	05.9	+02.4	58	05.0	+02.5	59	04.1	+02.5	60	03.3	+02.4	61	02.4	+02.5	06
07	72	08.3	+02.5	73	07.5	+02.4	74	06.6	+02.5	75	05.7	+02.5	76	04.9	+02.4	07
08	87	10.8	+02.4	88	09.9	+02.5	89	09.1	+02.4	90	08.2	+02.5	91	07.3	+02.5	08
09	102	13.2	+02.5	103	12.4	+02.5	104	11.5	+02.5	105	10.7	+02.4	106	09.8	+02.5	09
10	117	15.7	+02.5	118	14.9	+02.4	119	14.0	+02.5	120	13.1	+02.5	121	12.3	+02.4	10
11	132	18.2	+02.4	133	17.3	+02.5	134	16.5	+02.4	135	15.6	+02.5	136	14.7	+02.5	11
12	147	20.6	+02.5	148	19.8	+02.4	149	18.9	+02.5	150	18.1	+02.4	151	17.2	+02.5	12
13	162	23.1	+02.5	163	22.2	+02.5	164	21.4	+02.4	165	20.5	+02.5	166	19.7	+02.4	13
14	177	25.6	+02.4	178	24.7	+02.5	179	23.8	+02.5	180	23.0	+02.4	181	22.1	+02.5	14
15	192	28.0	+02.5	193	27.2	+02.4	194	26.3	+02.5	195	25.4	+02.5	196	24.6	+02.4	15
16	207	30.5	+02.5	208	29.6	+02.5	209	28.8	+02.4	210	27.9	+02.5	211	27.0	+02.5	16
17	222	33.0	+02.4	223	32.1	+02.5	224	31.2	+02.5	225	30.4	+02.4	226	29.5	+02.5	17
18	237	35.4	+02.5	238	34.6	+02.4	239	33.7	+02.5	240	32.8	+02.5	241	32.0	+02.4	18
19	252	37.9	+02.5	253	37.0	+02.5	254	36.2	+02.4	255	35.3	+02.5	256	34.4	+02.5	19
20	267	40.4	+02.4	268	39.5	+02.5	269	38.6	+02.5	270	37.8	+02.4	271	36.9	+02.5	20
21	282	42.8	+02.5	283	42.0	+02.4	284	41.1	+02.5	285	40.2	+02.5	286	39.4	+02.4	21
22	297	45.3	+02.4	298	44.4	+02.5	299	43.6	+02.4	300	42.7	+02.5	301	41.8	+02.5	22
23	312	47.7	+02.5	313	46.9	+02.5	314	46.0	+02.5	315	45.2	+02.4	316	44.3	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.9	N 29 13.6	Gienah	175 44.1	S 17 40.7
Ankaa	353 07.2	S 42 10.0	Acrux	173 01.0	S 63 14.3
Schedir	349 31.1	N 56 40.2	Gacrux	171 52.5	S 57 15.1
Diphda	348 47.5	S 17 50.9	Alioth	166 13.7	N 55 49.8
Achernar	335 20.2	S 57 06.4	Spica	158 22.8	S 11 17.3
Hamal	327 51.5	N 23 34.8	Alkaid	152 52.4	N 49 11.7
Polaris	314 09.5	N 89 21.8	Hadar	148 36.7	S 60 29.7
Acamar	315 11.9	S 40 12.0	Menkent	147 57.8	S 36 29.3
Menkar	314 06.4	N 04 11.3	Arcturus	145 47.9	N 19 04.2
Mirfak	308 28.7	N 49 56.8	Rigel Kentaurus	139 38.1	S 60 56.6
Aldebaran	290 40.1	N 16 33.6	Zubenelgenubi	136 56.4	S 16 08.6
Capella	280 22.6	N 46 01.4	Kocab	137 19.9	N 74 03.5
Rigel	281 04.3	S 08 10.2	Alphecca	126 04.0	N 26 38.1
Bellatrix	278 23.4	N 06 22.4	Antares	112 16.2	S 26 29.2
Elnath	278 02.5	N 28 37.7	Atria	107 10.5	S 69 04.5
Alnilam	275 38.2	S 01 11.0	Sabik	102 03.0	S 15 45.4
Betelgeuze	270 52.6	N 07 24.8	Shaula	96 10.6	S 37 07.4
Canopus	263 52.9	S 52 42.2	Rasalhague	95 58.7	N 12 32.7
Sirius	258 26.6	S 16 44.3	Etamin	90 42.0	N 51 29.3
Adhara	255 06.4	S 29 00.1	Kaus Australis	83 32.6	S 34 22.4
Castor	245 57.7	N 31 50.1	Vega	80 33.2	N 38 48.4
Procyon	244 51.2	N 05 10.2	Nunki	75 47.9	S 26 16.0
Pollux	243 17.6	N 27 58.1	Albireo	67 04.0	N 28 00.8
Avior	234 15.5	S 59 35.1	Altair	62 00.2	N 08 55.9
Suhail	222 47.0	S 43 31.8	Peacock	53 05.6	S 56 39.3
Miaplacidus	221 39.1	S 69 49.0	Deneb	49 25.6	N 45 22.2
Alphard	217 48.4	S 08 45.8	Enif	33 38.8	N 09 59.4
Regulus	207 35.0	N 11 50.9	Alnair	27 32.9	S 46 50.3
Dubhe	193 41.9	N 61 37.3	Formalhaut	15 14.6	S 29 29.3
Denebola	182 25.4	N 14 26.3	Markab	13 29.9	N 15 20.3

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UT	day 236 of 366			day 237 of 366			day 238 of 366			day 239 of 366			day 240 of 366			UT		
	August 23			August 24			August 25			August 26			August 27					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	331	46.8	+02.4	332	45.9	+02.5	333	45.0	+02.5	334	44.2	+02.4	335	43.3	+02.5	00		
01	346	49.2	+02.5	347	48.4	+02.4	348	47.5	+02.5	349	46.6	+02.5	350	45.8	+02.4	01		
02	1	51.7	+02.5	2	50.8	+02.5	3	50.0	+02.4	4	49.1	+02.5	5	48.2	+02.5	02		
03	16	54.2	+02.4	17	53.3	+02.5	18	52.4	+02.5	19	51.6	+02.4	20	50.7	+02.5	03		
04	31	56.6	+02.5	32	55.8	+02.4	33	54.9	+02.5	34	54.0	+02.5	35	53.2	+02.4	04		
05	46	59.1	+02.4	47	58.2	+02.5	48	57.4	+02.4	49	56.5	+02.5	50	55.6	+02.5	05		
06	62	01.5	+02.5	63	00.7	+02.4	63	59.8	+02.5	64	59.0	+02.4	65	58.1	+02.5	06		
07	77	04.0	+02.5	78	03.1	+02.5	79	02.3	+02.5	80	01.4	+02.5	81	00.6	+02.4	07		
08	92	06.5	+02.4	93	05.6	+02.5	94	04.8	+02.4	95	03.9	+02.5	96	03.0	+02.5	08		
09	107	08.9	+02.5	108	08.1	+02.4	109	07.2	+02.5	110	06.4	+02.4	111	05.5	+02.5	09		
10	122	11.4	+02.5	123	10.5	+02.5	124	09.7	+02.4	125	08.8	+02.5	126	08.0	+02.4	10		
11	137	13.9	+02.4	138	13.0	+02.5	139	12.1	+02.5	140	11.3	+02.4	141	10.4	+02.5	11		
12	152	16.3	+02.5	153	15.5	+02.4	154	14.6	+02.5	155	13.7	+02.5	156	12.9	+02.5	12		
13	167	18.8	+02.5	168	17.9	+02.5	169	17.1	+02.4	170	16.2	+02.5	171	15.4	+02.4	13		
14	182	21.3	+02.4	183	20.4	+02.5	184	19.5	+02.5	185	18.7	+02.4	186	17.8	+02.5	14		
15	197	23.7	+02.5	198	22.9	+02.4	199	22.0	+02.5	200	21.1	+02.5	201	20.3	+02.4	15		
16	212	26.2	+02.5	213	25.3	+02.5	214	24.5	+02.4	215	23.6	+02.5	216	22.7	+02.5	16		
17	227	28.7	+02.4	228	27.8	+02.5	229	26.9	+02.5	230	26.1	+02.4	231	25.2	+02.5	17		
18	242	31.1	+02.5	243	30.3	+02.4	244	29.4	+02.5	245	28.5	+02.5	246	27.7	+02.4	18		
19	257	33.6	+02.4	258	32.7	+02.5	259	31.9	+02.4	260	31.0	+02.5	261	30.1	+02.5	19		
20	272	36.0	+02.5	273	35.2	+02.4	274	34.3	+02.5	275	33.5	+02.4	276	32.6	+02.5	20		
21	287	38.5	+02.5	288	37.6	+02.5	289	36.8	+02.4	290	35.9	+02.5	291	35.1	+02.4	21		
22	302	41.0	+02.4	303	40.1	+02.5	304	39.2	+02.5	305	38.4	+02.5	306	37.5	+02.5	22		
23	317	43.4	+02.5	318	42.6	+02.4	319	41.7	+02.5	320	40.9	+02.4	321	40.0	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.9	N 29	13.7	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.2	S 42	10.0	Acrux	173	01.0	S 63	14.2
Schedir	349	31.0	N 56	40.2	Gacrux	171	52.5	S 57	15.1
Diphda	348	47.4	S 17	50.9	Alioth	166	13.7	N 55	49.8
Achernar	335	20.1	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.5	N 23	34.8	Alkaid	152	52.4	N 49	11.7
Polaris	314	07.2	N 89	21.8	Hadar	148	36.8	S 60	29.7
Acamar	315	11.9	S 40	12.0	Menkent	147	57.9	S 36	29.3
Menkar	314	06.4	N 04	11.3	Arcturus	145	47.9	N 19	04.2
Mirfak	308	28.7	N 49	56.8	Rigel Kentaurus	139	38.1	S 60	56.6
Aldebaran	290	40.1	N 16	33.7	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	22.6	N 46	01.4	Kocab	137	20.0	N 74	03.5
Rigel	281	04.3	S 08	10.2	Alphecca	126	04.1	N 26	38.1
Bellatrix	278	23.3	N 06	22.4	Antares	112	16.3	S 26	29.2
Elnath	278	02.4	N 28	37.8	Atria	107	10.5	S 69	04.5
Alnilam	275	38.2	S 01	11.0	Sabik	102	03.0	S 15	45.4
Betelgeuze	270	52.6	N 07	24.8	Shaula	96	10.6	S 37	07.4
Canopus	263	52.9	S 52	42.2	Rasalhague	95	58.7	N 12	32.7
Sirius	258	26.5	S 16	44.3	Etamin	90	42.1	N 51	29.4
Adhara	255	06.4	S 29	00.1	Kaus Australis	83	32.7	S 34	22.4
Castor	245	57.7	N 31	50.1	Vega	80	33.3	N 38	48.4
Procyon	244	51.2	N 05	10.3	Nunki	75	47.9	S 26	16.0
Pollux	243	17.6	N 27	58.1	Albireo	67	04.0	N 28	00.8
Avior	234	15.5	S 59	35.1	Altair	62	00.2	N 08	55.9
Suhail	222	47.0	S 43	31.7	Peacock	53	05.6	S 56	39.4
Miaplacidus	221	39.1	S 69	49.0	Deneb	49	25.6	N 45	22.2
Alphard	217	48.4	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	35.0	N 11	51.0	Alnair	27	32.9	S 46	50.4
Dubhe	193	41.9	N 61	37.2	Formalhaut	15	14.6	S 29	29.3
Denebola	182	25.4	N 14	26.3	Markab	13	29.9	N 15	20.4

2024 - First Point of Aries / Selected Stars

UT	day 241 of 366			day 242 of 366			day 243 of 366			day 244 of 366			day 245 of 366			UT		
	August 28			August 29			August 30			August 31			September 1					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	336	42.5	+02.4	337	41.6	+02.5	338	40.7	+02.5	339	39.9	+02.4	340	39.0	+02.5	00		
01	351	44.9	+02.5	352	44.1	+02.4	353	43.2	+02.5	354	42.3	+02.5	355	41.5	+02.4	01		
02	6	47.4	+02.4	7	46.5	+02.5	8	45.7	+02.4	9	44.8	+02.5	10	43.9	+02.5	02		
03	21	49.8	+02.5	22	49.0	+02.5	23	48.1	+02.5	24	47.3	+02.4	25	46.4	+02.5	03		
04	36	52.3	+02.5	37	51.5	+02.4	38	50.6	+02.5	39	49.7	+02.5	40	48.9	+02.4	04		
05	51	54.8	+02.4	52	53.9	+02.5	53	53.1	+02.4	54	52.2	+02.5	55	51.3	+02.5	05		
06	66	57.2	+02.5	67	56.4	+02.4	68	55.5	+02.5	69	54.7	+02.4	70	53.8	+02.5	06		
07	81	59.7	+02.5	82	58.8	+02.5	83	58.0	+02.5	84	57.1	+02.5	85	56.3	+02.4	07		
08	97	02.2	+02.4	98	01.3	+02.5	99	00.5	+02.4	99	59.6	+02.5	100	58.7	+02.5	08		
09	112	04.6	+02.5	113	03.8	+02.4	114	02.9	+02.5	115	02.1	+02.4	116	01.2	+02.5	09		
10	127	07.1	+02.5	128	06.2	+02.5	129	05.4	+02.4	130	04.5	+02.5	131	03.7	+02.4	10		
11	142	09.6	+02.4	143	08.7	+02.5	144	07.8	+02.5	145	07.0	+02.4	146	06.1	+02.5	11		
12	157	12.0	+02.5	158	11.2	+02.4	159	10.3	+02.5	160	09.4	+02.5	161	08.6	+02.4	12		
13	172	14.5	+02.5	173	13.6	+02.5	174	12.8	+02.4	175	11.9	+02.5	176	11.0	+02.5	13		
14	187	17.0	+02.4	188	16.1	+02.5	189	15.2	+02.5	190	14.4	+02.4	191	13.5	+02.5	14		
15	202	19.4	+02.5	203	18.6	+02.4	204	17.7	+02.5	205	16.8	+02.5	206	16.0	+02.4	15		
16	217	21.9	+02.4	218	21.0	+02.5	219	20.2	+02.4	220	19.3	+02.5	221	18.4	+02.5	16		
17	232	24.3	+02.5	233	23.5	+02.5	234	22.6	+02.5	235	21.8	+02.4	236	20.9	+02.5	17		
18	247	26.8	+02.5	248	26.0	+02.4	249	25.1	+02.5	250	24.2	+02.5	251	23.4	+02.4	18		
19	262	29.3	+02.4	263	28.4	+02.5	264	27.6	+02.4	265	26.7	+02.5	266	25.8	+02.5	19		
20	277	31.7	+02.5	278	30.9	+02.4	279	30.0	+02.5	280	29.2	+02.4	281	28.3	+02.5	20		
21	292	34.2	+02.5	293	33.3	+02.5	294	32.5	+02.4	295	31.6	+02.5	296	30.8	+02.4	21		
22	307	36.7	+02.4	308	35.8	+02.5	309	34.9	+02.5	310	34.1	+02.5	311	33.2	+02.5	22		
23	322	39.1	+02.5	323	38.3	+02.4	324	37.4	+02.5	325	36.6	+02.4	326	35.7	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.8	N 29	13.7	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.2	S 42	10.0	Acrux	173	01.1	S 63	14.2
Schedir	349	31.0	N 56	40.3	Gacrux	171	52.5	S 57	15.1
Diphda	348	47.4	S 17	50.9	Alioth	166	13.7	N 55	49.8
Achernar	335	20.1	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.4	N 23	34.8	Alkaid	152	52.4	N 49	11.7
Polaris	314	04.3	N 89	21.8	Hadar	148	36.8	S 60	29.7
Acamar	315	11.8	S 40	12.0	Menkent	147	57.9	S 36	29.3
Menkar	314	06.4	N 04	11.3	Arcturus	145	47.9	N 19	04.2
Mirfak	308	28.6	N 49	56.8	Rigel Kentaurus	139	38.1	S 60	56.6
Aldebaran	290	40.0	N 16	33.7	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	22.5	N 46	01.4	Kocab	137	20.1	N 74	03.5
Rigel	281	04.2	S 08	10.2	Alphecca	126	04.1	N 26	38.1
Bellatrix	278	23.3	N 06	22.4	Antares	112	16.3	S 26	29.2
Elnath	278	02.4	N 28	37.8	Atria	107	10.6	S 69	04.5
Alnilam	275	38.1	S 01	11.0	Sabik	102	03.1	S 15	45.4
Betelgeuze	270	52.6	N 07	24.8	Shaula	96	10.6	S 37	07.4
Canopus	263	52.8	S 52	42.2	Rasalhague	95	58.7	N 12	32.8
Sirius	258	26.5	S 16	44.3	Etamin	90	42.1	N 51	29.4
Adhara	255	06.3	S 29	00.0	Kaus Australis	83	32.7	S 34	22.4
Castor	245	57.6	N 31	50.1	Vega	80	33.3	N 38	48.5
Procyon	244	51.1	N 05	10.2	Nunki	75	47.9	S 26	16.0
Pollux	243	17.6	N 27	58.1	Albireo	67	04.0	N 28	00.8
Avior	234	15.4	S 59	35.1	Altair	62	00.2	N 08	56.0
Suhail	222	47.0	S 43	31.7	Peacock	53	05.7	S 56	39.4
Miaplacidus	221	39.1	S 69	49.0	Deneb	49	25.6	N 45	22.2
Alphard	217	48.4	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	35.0	N 11	50.9	Alnair	27	32.9	S 46	50.4
Dubhe	193	41.9	N 61	37.2	Formalhaut	15	14.6	S 29	29.3
Denebola	182	25.4	N 14	26.3	Markab	13	29.9	N 15	20.4

2024 - First Point of Aries / Selected Stars

UT	day 246 of 366			day 247 of 366			day 248 of 366			day 249 of 366			day 250 of 366			UT			
	<i>September 2</i>			<i>September 3</i>			<i>September 4</i>			<i>September 5</i>			<i>September 6</i>						
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA					
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
00	341	38.2	+02.4	342	37.3	+02.5	343	36.4	+02.5	344	35.6	+02.4	345	34.7	+02.5				00
01	356	40.6	+02.5	357	39.8	+02.4	358	38.9	+02.5	359	38.0	+02.5		0	37.2	+02.4			01
02		11	43.1	+02.4		12	42.2	+02.5		13	41.4	+02.4		14	40.5	+02.5			02
03		26	45.5	+02.5		27	44.7	+02.4		28	43.8	+02.5		29	43.0	+02.4			03
04		41	48.0	+02.5		42	47.1	+02.5		43	46.3	+02.4		44	45.4	+02.5			04
05		56	50.5	+02.4		57	49.6	+02.5		58	48.7	+02.5		59	47.9	+02.4			05
06		71	52.9	+02.5		72	52.1	+02.4		73	51.2	+02.5		74	50.3	+02.5			06
07		86	55.4	+02.5		87	54.5	+02.5		88	53.7	+02.4		89	52.8	+02.5			07
08	101	57.9	+02.4	102	57.0	+02.5	103	56.1	+02.5	104	55.3	+02.4	105	54.4	+02.5				08
09	117	00.3	+02.5	117	59.5	+02.4	118	58.6	+02.5	119	57.7	+02.5	120	56.9	+02.4				09
10	132	02.8	+02.5	133	01.9	+02.5	134	01.1	+02.4	135	00.2	+02.5	135	59.3	+02.5				10
11	147	05.3	+02.4	148	04.4	+02.5	149	03.5	+02.5	150	02.7	+02.4	151	01.8	+02.5				11
12	162	07.7	+02.5	163	06.9	+02.4	164	06.0	+02.5	165	05.1	+02.5	166	04.3	+02.4				12
13	177	10.2	+02.5	178	09.3	+02.5	179	08.5	+02.4	180	07.6	+02.5	181	06.7	+02.5				13
14	192	12.7	+02.4	193	11.8	+02.5	194	10.9	+02.5	195	10.1	+02.4	196	09.2	+02.5				14
15	207	15.1	+02.5	208	14.3	+02.4	209	13.4	+02.5	210	12.5	+02.5	211	11.7	+02.4				15
16	222	17.6	+02.4	223	16.7	+02.5	224	15.9	+02.4	225	15.0	+02.5	226	14.1	+02.5				16
17	237	20.0	+02.5	238	19.2	+02.4	239	18.3	+02.5	240	17.5	+02.4	241	16.6	+02.5				17
18	252	22.5	+02.5	253	21.6	+02.5	254	20.8	+02.4	255	19.9	+02.5	256	19.1	+02.4				18
19	267	25.0	+02.4	268	24.1	+02.5	269	23.2	+02.5	270	22.4	+02.4	271	21.5	+02.5				19
20	282	27.4	+02.5	283	26.6	+02.4	284	25.7	+02.5	285	24.8	+02.5	286	24.0	+02.4				20
21	297	29.9	+02.5	298	29.0	+02.5	299	28.2	+02.4	300	27.3	+02.5	301	26.4	+02.5				21
22	312	32.4	+02.4	313	31.5	+02.5	314	30.6	+02.5	315	29.8	+02.4	316	28.9	+02.5				22
23	327	34.8	+02.5	328	34.0	+02.4	329	33.1	+02.5	330	32.2	+02.5	331	31.4	+02.4				23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.8	N 29	13.7	Gienah	175	44.1	S 17	40.7
Ankaa	353	07.1	S 42	10.0	Acrux	173	01.1	S 63	14.2
Schedir	349	31.0	N 56	40.3	Gacrux	171	52.6	S 57	15.0
Diphda	348	47.4	S 17	50.9	Alioth	166	13.7	N 55	49.8
Achernar	335	20.0	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.4	N 23	34.8	Alkaid	152	52.5	N 49	11.7
Polaris	314	01.8	N 89	21.8	Hadar	148	36.8	S 60	29.7
Acamar	315	11.8	S 40	12.0	Menkent	147	57.9	S 36	29.2
Menkar	314	06.3	N 04	11.4	Arcturus	145	47.9	N 19	04.2
Mirfak	308	28.5	N 49	56.8	Rigel Kentaurus	139	38.2	S 60	56.6
Aldebaran	290	40.0	N 16	33.7	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	22.4	N 46	01.4	Kocab	137	20.2	N 74	03.5
Rigel	281	04.2	S 08	10.2	Alphecca	126	04.1	N 26	38.1
Bellatrix	278	23.2	N 06	22.5	Antares	112	16.3	S 26	29.2
Elnath	278	02.3	N 28	37.8	Atria	107	10.6	S 69	04.5
Alnilam	275	38.1	S 01	11.0	Sabik	102	03.1	S 15	45.4
Betelgeuze	270	52.5	N 07	24.8	Shaula	96	10.6	S 37	07.4
Canopus	263	52.8	S 52	42.2	Rasalhague	95	58.8	N 12	32.8
Sirius	258	26.5	S 16	44.2	Etamin	90	42.1	N 51	29.4
Adhara	255	06.3	S 29	00.0	Kaus Australis	83	32.7	S 34	22.4
Castor	245	57.6	N 31	50.1	Vega	80	33.3	N 38	48.5
Procyon	244	51.1	N 05	10.3	Nunki	75	47.9	S 26	16.0
Pollux	243	17.6	N 27	58.1	Albireo	67	04.0	N 28	00.8
Avior	234	15.4	S 59	35.0	Altair	62	00.2	N 08	56.0
Suhail	222	46.9	S 43	31.7	Peacock	53	05.7	S 56	39.4
Miaplacidus	221	39.1	S 69	48.9	Deneb	49	25.6	N 45	22.2
Alphard	217	48.3	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	34.9	N 11	50.9	Alnair	27	32.8	S 46	50.4
Dubhe	193	41.8	N 61	37.2	Formalhaut	15	14.6	S 29	29.3
Denebola	182	25.4	N 14	26.3	Markab	13	29.9	N 15	20.4

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UT	day 251 of 366			day 252 of 366			day 253 of 366			day 254 of 366			day 255 of 366			UT		
	<i>September 7</i>			<i>September 8</i>			<i>September 9</i>			<i>September 10</i>			<i>September 11</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	346	33.8	+02.5	347	33.0	+02.4	348	32.1	+02.5	349	31.3	+02.4	350	30.4	+02.5	00		
01	1	36.3	+02.5	2	35.4	+02.5	3	34.6	+02.4	4	33.7	+02.5	5	32.9	+02.4	01		
02	16	38.8	+02.4	17	37.9	+02.5	18	37.0	+02.5	19	36.2	+02.4	20	35.3	+02.5	02		
03	31	41.2	+02.5	32	40.4	+02.4	33	39.5	+02.5	34	38.6	+02.5	35	37.8	+02.4	03		
04	46	43.7	+02.5	47	42.8	+02.5	48	42.0	+02.4	49	41.1	+02.5	50	40.2	+02.5	04		
05	61	46.2	+02.4	62	45.3	+02.5	63	44.4	+02.5	64	43.6	+02.4	65	42.7	+02.5	05		
06	76	48.6	+02.5	77	47.8	+02.4	78	46.9	+02.5	79	46.0	+02.5	80	45.2	+02.4	06		
07	91	51.1	+02.5	92	50.2	+02.5	93	49.4	+02.4	94	48.5	+02.5	95	47.6	+02.5	07		
08	106	53.6	+02.4	107	52.7	+02.5	108	51.8	+02.5	109	51.0	+02.4	110	50.1	+02.5	08		
09	121	56.0	+02.5	122	55.2	+02.4	123	54.3	+02.5	124	53.4	+02.5	125	52.6	+02.4	09		
10	136	58.5	+02.4	137	57.6	+02.5	138	56.8	+02.4	139	55.9	+02.5	140	55.0	+02.5	10		
11	152	00.9	+02.5	153	00.1	+02.4	153	59.2	+02.5	154	58.4	+02.4	155	57.5	+02.5	11		
12	167	03.4	+02.5	168	02.5	+02.5	169	01.7	+02.4	170	00.8	+02.5	170	60.0	+02.4	12		
13	182	05.9	+02.4	183	05.0	+02.5	184	04.1	+02.5	185	03.3	+02.5	186	02.4	+02.5	13		
14	197	08.3	+02.5	198	07.5	+02.4	199	06.6	+02.5	200	05.8	+02.4	201	04.9	+02.5	14		
15	212	10.8	+02.5	213	09.9	+02.5	214	09.1	+02.4	215	08.2	+02.5	216	07.4	+02.4	15		
16	227	13.3	+02.4	228	12.4	+02.5	229	11.5	+02.5	230	10.7	+02.4	231	09.8	+02.5	16		
17	242	15.7	+02.5	243	14.9	+02.4	244	14.0	+02.5	245	13.1	+02.5	246	12.3	+02.4	17		
18	257	18.2	+02.5	258	17.3	+02.5	259	16.5	+02.4	260	15.6	+02.5	261	14.7	+02.5	18		
19	272	20.7	+02.4	273	19.8	+02.5	274	18.9	+02.5	275	18.1	+02.4	276	17.2	+02.5	19		
20	287	23.1	+02.5	288	22.3	+02.4	289	21.4	+02.5	290	20.5	+02.5	291	19.7	+02.4	20		
21	302	25.6	+02.4	303	24.7	+02.5	304	23.9	+02.4	305	23.0	+02.5	306	22.1	+02.5	21		
22	317	28.0	+02.5	318	27.2	+02.5	319	26.3	+02.5	320	25.5	+02.4	321	24.6	+02.5	22		
23	332	30.5	+02.5	333	29.7	+02.4	334	28.8	+02.5	335	27.9	+02.5	336	27.1	+02.4	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.8	N 29	13.7	Gienah	175	44.1	S 17	40.6
Ankaa	353	07.1	S 42	10.0	Acrux	173	01.1	S 63	14.2
Schedir	349	30.9	N 56	40.3	Gacrux	171	52.6	S 57	15.0
Diphda	348	47.4	S 17	50.9	Alioth	166	13.8	N 55	49.8
Achernar	335	20.0	S 57	06.4	Spica	158	22.8	S 11	17.3
Hamal	327	51.4	N 23	34.8	Alkaid	152	52.5	N 49	11.6
Polaris	313	59.5	N 89	21.8	Hadar	148	36.9	S 60	29.6
Acamar	315	11.7	S 40	12.0	Menkent	147	57.9	S 36	29.2
Menkar	314	06.3	N 04	11.4	Arcturus	145	48.0	N 19	04.2
Mirfak	308	28.5	N 49	56.8	Rigel Kentaurus	139	38.2	S 60	56.6
Aldebaran	290	39.9	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	22.4	N 46	01.4	Kocab	137	20.3	N 74	03.5
Rigel	281	04.2	S 08	10.2	Alphecca	126	04.1	N 26	38.1
Bellatrix	278	23.2	N 06	22.5	Antares	112	16.3	S 26	29.2
Elnath	278	02.3	N 28	37.8	Atria	107	10.7	S 69	04.5
Alnilam	275	38.1	S 01	11.0	Sabik	102	03.1	S 15	45.4
Betelgeuze	270	52.5	N 07	24.8	Shaula	96	10.7	S 37	07.4
Canopus	263	52.7	S 52	42.1	Rasalhague	95	58.8	N 12	32.8
Sirius	258	26.4	S 16	44.2	Etamin	90	42.2	N 51	29.4
Adhara	255	06.3	S 29	00.0	Kaus Australis	83	32.7	S 34	22.4
Castor	245	57.6	N 31	50.1	Vega	80	33.3	N 38	48.5
Procyon	244	51.1	N 05	10.3	Nunki	75	47.9	S 26	16.0
Pollux	243	17.5	N 27	58.1	Albireo	67	04.1	N 28	00.9
Avior	234	15.4	S 59	35.0	Altair	62	00.2	N 08	56.0
Suhail	222	46.9	S 43	31.7	Peacock	53	05.7	S 56	39.4
Miaplacidus	221	39.1	S 69	48.9	Deneb	49	25.6	N 45	22.3
Alphard	217	48.3	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	34.9	N 11	50.9	Alnair	27	32.9	S 46	50.4
Dubhe	193	41.8	N 61	37.2	Formalhaut	15	14.6	S 29	29.3
Denebola	182	25.4	N 14	26.3	Markab	13	29.9	N 15	20.4

2024 - First Point of Aries / Selected Stars

UT	day 256 of 366 September 12			day 257 of 366 September 13			day 258 of 366 September 14			day 259 of 366 September 15			day 260 of 366 September 16			UT
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	° ' "	' "	' "	
00	351	29.5	+02.5	352	28.7	+02.4	353	27.8	+02.5	354	27.0	+02.4	355	26.1	+02.5	00
01	6	32.0	+02.5	7	31.1	+02.5	8	30.3	+02.4	9	29.4	+02.5	10	28.6	+02.4	01
02	21	34.5	+02.4	22	33.6	+02.5	23	32.7	+02.5	24	31.9	+02.4	25	31.0	+02.5	02
03	36	36.9	+02.5	37	36.1	+02.4	38	35.2	+02.5	39	34.3	+02.5	40	33.5	+02.4	03
04	51	39.4	+02.5	52	38.5	+02.5	53	37.7	+02.4	54	36.8	+02.5	55	35.9	+02.5	04
05	66	41.9	+02.4	67	41.0	+02.5	68	40.1	+02.5	69	39.3	+02.4	70	38.4	+02.5	05
06	81	44.3	+02.5	82	43.5	+02.4	83	42.6	+02.5	84	41.7	+02.5	85	40.9	+02.4	06
07	96	46.8	+02.4	97	45.9	+02.5	98	45.1	+02.4	99	44.2	+02.5	100	43.3	+02.5	07
08	111	49.2	+02.5	112	48.4	+02.5	113	47.5	+02.5	114	46.7	+02.4	115	45.8	+02.5	08
09	126	51.7	+02.5	127	50.9	+02.4	128	50.0	+02.5	129	49.1	+02.5	130	48.3	+02.4	09
10	141	54.2	+02.4	142	53.3	+02.5	143	52.5	+02.4	144	51.6	+02.5	145	50.7	+02.5	10
11	156	56.6	+02.5	157	55.8	+02.4	158	54.9	+02.5	159	54.1	+02.4	160	53.2	+02.5	11
12	171	59.1	+02.5	172	58.2	+02.5	173	57.4	+02.4	174	56.5	+02.5	175	55.7	+02.4	12
13	187	01.6	+02.4	188	00.7	+02.5	188	59.8	+02.5	189	59.0	+02.5	190	58.1	+02.5	13
14	202	04.0	+02.5	203	03.2	+02.4	204	02.3	+02.5	205	01.5	+02.4	206	00.6	+02.5	14
15	217	06.5	+02.5	218	05.6	+02.5	219	04.8	+02.4	220	03.9	+02.5	221	03.1	+02.4	15
16	232	09.0	+02.4	233	08.1	+02.5	234	07.2	+02.5	235	06.4	+02.4	236	05.5	+02.5	16
17	247	11.4	+02.5	248	10.6	+02.4	249	09.7	+02.5	250	08.8	+02.5	251	08.0	+02.4	17
18	262	13.9	+02.5	263	13.0	+02.5	264	12.2	+02.4	265	11.3	+02.5	266	10.4	+02.5	18
19	277	16.4	+02.4	278	15.5	+02.5	279	14.6	+02.5	280	13.8	+02.4	281	12.9	+02.5	19
20	292	18.8	+02.5	293	18.0	+02.4	294	17.1	+02.5	295	16.2	+02.5	296	15.4	+02.4	20
21	307	21.3	+02.4	308	20.4	+02.5	309	19.6	+02.4	310	18.7	+02.5	311	17.8	+02.5	21
22	322	23.7	+02.5	323	22.9	+02.4	324	22.0	+02.5	325	21.2	+02.4	326	20.3	+02.5	22
23	337	26.2	+02.5	338	25.3	+02.5	339	24.5	+02.5	340	23.6	+02.5	341	22.8	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.8	N 29 13.7	Gienah	175 44.1	S 17 40.6
Ankaa	353 07.1	S 42 10.0	Acrux	173 01.1	S 63 14.2
Schedir	349 30.9	N 56 40.4	Gacrux	171 52.6	S 57 15.0
Diphda	348 47.3	S 17 50.9	Alioth	166 13.8	N 55 49.7
Achernar	335 19.9	S 57 06.4	Spica	158 22.9	S 11 17.3
Hamal	327 51.3	N 23 34.9	Alkaid	152 52.5	N 49 11.6
Polaris	313 56.9	N 89 21.8	Hadar	148 36.9	S 60 29.6
Acamar	315 11.7	S 40 12.0	Menkent	147 57.9	S 36 29.2
Menkar	314 06.3	N 04 11.4	Arcturus	145 48.0	N 19 04.2
Mirfak	308 28.4	N 49 56.8	Rigel Kentaurus	139 38.3	S 60 56.6
Aldebaran	290 39.9	N 16 33.7	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 22.3	N 46 01.4	Kocab	137 20.4	N 74 03.4
Rigel	281 04.1	S 08 10.2	Alphecca	126 04.2	N 26 38.1
Bellatrix	278 23.2	N 06 22.5	Antares	112 16.4	S 26 29.2
Elnath	278 02.2	N 28 37.8	Atria	107 10.8	S 69 04.5
Alnilam	275 38.0	S 01 11.0	Sabik	102 03.1	S 15 45.3
Betelgeuze	270 52.4	N 07 24.8	Shaula	96 10.7	S 37 07.4
Canopus	263 52.7	S 52 42.1	Rasalhague	95 58.8	N 12 32.8
Sirius	258 26.4	S 16 44.2	Etamin	90 42.2	N 51 29.4
Adhara	255 06.2	S 29 00.0	Kaus Australis	83 32.7	S 34 22.4
Castor	245 57.5	N 31 50.1	Vega	80 33.4	N 38 48.5
Procyon	244 51.1	N 05 10.3	Nunki	75 48.0	S 26 16.0
Pollux	243 17.5	N 27 58.0	Albireo	67 04.1	N 28 00.9
Avior	234 15.3	S 59 35.0	Altair	62 00.2	N 08 56.0
Suhail	222 46.9	S 43 31.7	Peacock	53 05.7	S 56 39.4
Miaplacidus	221 39.0	S 69 48.9	Deneb	49 25.7	N 45 22.3
Alphard	217 48.3	S 08 45.8	Enif	33 38.8	N 09 59.4
Regulus	207 34.9	N 11 50.9	Alnair	27 32.9	S 46 50.4
Dubhe	193 41.8	N 61 37.1	Formalhaut	15 14.6	S 29 29.3
Denebola	182 25.4	N 14 26.2	Markab	13 29.9	N 15 20.4

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UT	day 261 of 366			day 262 of 366			day 263 of 366			day 264 of 366			day 265 of 366			UT
	<i>September 17</i>			<i>September 18</i>			<i>September 19</i>			<i>September 20</i>			<i>September 21</i>			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	356	25.2	+02.5	357	24.4	+02.4	358	23.5	+02.5	359	22.6	+02.5	0	21.8	+02.4	00
01	11	27.7	+02.5	12	26.8	+02.5	13	26.0	+02.4	14	25.1	+02.5	15	24.2	+02.5	01
02	26	30.2	+02.4	27	29.3	+02.5	28	28.4	+02.5	29	27.6	+02.4	30	26.7	+02.5	02
03	41	32.6	+02.5	42	31.8	+02.4	43	30.9	+02.5	44	30.0	+02.5	45	29.2	+02.4	03
04	56	35.1	+02.4	57	34.2	+02.5	58	33.4	+02.4	59	32.5	+02.5	60	31.6	+02.5	04
05	71	37.5	+02.5	72	36.7	+02.4	73	35.8	+02.5	74	35.0	+02.4	75	34.1	+02.5	05
06	86	40.0	+02.5	87	39.1	+02.5	88	38.3	+02.5	89	37.4	+02.5	90	36.6	+02.4	06
07	101	42.5	+02.4	102	41.6	+02.5	103	40.8	+02.4	104	39.9	+02.5	105	39.0	+02.5	07
08	116	44.9	+02.5	117	44.1	+02.4	118	43.2	+02.5	119	42.4	+02.4	120	41.5	+02.5	08
09	131	47.4	+02.5	132	46.5	+02.5	133	45.7	+02.4	134	44.8	+02.5	135	44.0	+02.4	09
10	146	49.9	+02.4	147	49.0	+02.5	148	48.1	+02.5	149	47.3	+02.4	150	46.4	+02.5	10
11	161	52.3	+02.5	162	51.5	+02.4	163	50.6	+02.5	164	49.7	+02.5	165	48.9	+02.4	11
12	176	54.8	+02.5	177	53.9	+02.5	178	53.1	+02.4	179	52.2	+02.5	180	51.3	+02.5	12
13	191	57.3	+02.4	192	56.4	+02.5	193	55.5	+02.5	194	54.7	+02.4	195	53.8	+02.5	13
14	206	59.7	+02.5	207	58.9	+02.4	208	58.0	+02.5	209	57.1	+02.5	210	56.3	+02.4	14
15	222	02.2	+02.5	223	01.3	+02.5	224	00.5	+02.4	224	59.6	+02.5	225	58.7	+02.5	15
16	237	04.7	+02.4	238	03.8	+02.5	239	02.9	+02.5	240	02.1	+02.4	241	01.2	+02.5	16
17	252	07.1	+02.5	253	06.3	+02.4	254	05.4	+02.5	255	04.5	+02.5	256	03.7	+02.4	17
18	267	09.6	+02.4	268	08.7	+02.5	269	07.9	+02.4	270	07.0	+02.5	271	06.1	+02.5	18
19	282	12.0	+02.5	283	11.2	+02.4	284	10.3	+02.5	285	09.5	+02.4	286	08.6	+02.5	19
20	297	14.5	+02.5	298	13.6	+02.5	299	12.8	+02.4	300	11.9	+02.5	301	11.1	+02.4	20
21	312	17.0	+02.4	313	16.1	+02.5	314	15.2	+02.5	315	14.4	+02.4	316	13.5	+02.5	21
22	327	19.4	+02.5	328	18.6	+02.4	329	17.7	+02.5	330	16.8	+02.5	331	16.0	+02.5	22
23	342	21.9	+02.5	343	21.0	+02.5	344	20.2	+02.4	345	19.3	+02.5	346	18.5	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.8	N 29 13.8	Gienah	175 44.1	S 17 40.6
Ankaa	353 07.1	S 42 10.0	Acrux	173 01.1	S 63 14.1
Schedir	349 30.9	N 56 40.4	Gacrux	171 52.6	S 57 15.0
Diphda	348 47.3	S 17 50.9	Alioth	166 13.8	N 55 49.7
Achernar	335 19.9	S 57 06.4	Spica	158 22.9	S 11 17.3
Hamal	327 51.3	N 23 34.9	Alkaid	152 52.5	N 49 11.6
Polaris	313 54.7	N 89 21.9	Hadar	148 36.9	S 60 29.6
Acamar	315 11.7	S 40 12.1	Menkent	147 57.9	S 36 29.2
Menkar	314 06.2	N 04 11.4	Arcturus	145 48.0	N 19 04.2
Mirfak	308 28.4	N 49 56.8	Rigel Kentaurus	139 38.3	S 60 56.6
Aldebaran	290 39.9	N 16 33.7	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 22.3	N 46 01.4	Kocab	137 20.4	N 74 03.4
Rigel	281 04.1	S 08 10.2	Alphecca	126 04.2	N 26 38.1
Bellatrix	278 23.1	N 06 22.5	Antares	112 16.4	S 26 29.2
Elnath	278 02.2	N 28 37.8	Atria	107 10.8	S 69 04.5
Alnilam	275 38.0	S 01 11.0	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 52.4	N 07 24.8	Shaula	96 10.7	S 37 07.4
Canopus	263 52.6	S 52 42.1	Rasalhague	95 58.8	N 12 32.8
Sirius	258 26.4	S 16 44.2	Etamin	90 42.3	N 51 29.4
Adhara	255 06.2	S 29 00.0	Kaus Australis	83 32.8	S 34 22.4
Castor	245 57.5	N 31 50.1	Vega	80 33.4	N 38 48.5
Procyon	244 51.0	N 05 10.3	Nunki	75 48.0	S 26 16.0
Pollux	243 17.4	N 27 58.0	Albireo	67 04.1	N 28 00.9
Avior	234 15.3	S 59 35.0	Altair	62 00.2	N 08 56.0
Suhail	222 46.9	S 43 31.6	Peacock	53 05.7	S 56 39.4
Miaplacidus	221 39.0	S 69 48.9	Deneb	49 25.7	N 45 22.3
Alphard	217 48.3	S 08 45.8	Enif	33 38.8	N 09 59.4
Regulus	207 34.9	N 11 50.9	Alnair	27 32.8	S 46 50.4
Dubhe	193 41.8	N 61 37.1	Formalhaut	15 14.6	S 29 29.3
Denebola	182 25.4	N 14 26.2	Markab	13 29.9	N 15 20.4

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UT	day 266 of 366		day 267 of 366		day 268 of 366		day 269 of 366		day 270 of 366		UT		
	September 22		September 23		September 24		September 25		September 26				
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA			
	°	'	°	'	°	'	°	'	°	'			
00	1	20.9	+02.5	2	20.1	+02.4	3	19.2	+02.5	4	18.3	+02.5	00
01	16	23.4	+02.4	17	22.5	+02.5	18	21.7	+02.4	19	20.8	+02.5	01
02	31	25.8	+02.5	32	25.0	+02.4	33	24.1	+02.5	34	23.3	+02.4	02
03	46	28.3	+02.5	47	27.4	+02.5	48	26.6	+02.5	49	25.7	+02.5	03
04	61	30.8	+02.4	62	29.9	+02.5	63	29.1	+02.4	64	28.2	+02.5	04
05	76	33.2	+02.5	77	32.4	+02.4	78	31.5	+02.5	79	30.7	+02.4	05
06	91	35.7	+02.5	92	34.8	+02.5	93	34.0	+02.4	94	33.1	+02.5	06
07	106	38.2	+02.4	107	37.3	+02.5	108	36.4	+02.5	109	35.6	+02.4	07
08	121	40.6	+02.5	122	39.8	+02.4	123	38.9	+02.5	124	38.0	+02.5	08
09	136	43.1	+02.5	137	42.2	+02.5	138	41.4	+02.4	139	40.5	+02.5	09
10	151	45.6	+02.4	152	44.7	+02.5	153	43.8	+02.5	154	43.0	+02.4	10
11	166	48.0	+02.5	167	47.2	+02.4	168	46.3	+02.5	169	45.4	+02.5	11
12	181	50.5	+02.4	182	49.6	+02.5	183	48.8	+02.4	184	47.9	+02.5	12
13	196	52.9	+02.5	197	52.1	+02.5	198	51.2	+02.5	199	50.4	+02.4	13
14	211	55.4	+02.5	212	54.6	+02.4	213	53.7	+02.5	214	52.8	+02.5	14
15	226	57.9	+02.4	227	57.0	+02.5	228	56.2	+02.4	229	55.3	+02.5	15
16	242	00.3	+02.5	242	59.5	+02.4	243	58.6	+02.5	244	57.8	+02.4	16
17	257	02.8	+02.5	258	01.9	+02.5	259	01.1	+02.5	260	00.2	+02.5	17
18	272	05.3	+02.4	273	04.4	+02.5	274	03.6	+02.4	275	02.7	+02.5	18
19	287	07.7	+02.5	288	06.9	+02.4	289	06.0	+02.5	290	05.2	+02.4	19
20	302	10.2	+02.5	303	09.3	+02.5	304	08.5	+02.4	305	07.6	+02.5	20
21	317	12.7	+02.4	318	11.8	+02.5	319	10.9	+02.5	320	10.1	+02.4	21
22	332	15.1	+02.5	333	14.3	+02.4	334	13.4	+02.5	335	12.5	+02.5	22
23	347	17.6	+02.5	348	16.7	+02.5	349	15.9	+02.4	350	15.0	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.8	N 29	13.8	Gienah	175	44.1	S 17	40.6
Ankaa	353	07.1	S 42	10.0	Acrux	173	01.1	S 63	14.1
Schedir	349	30.9	N 56	40.4	Gacrux	171	52.6	S 57	14.9
Diphda	348	47.3	S 17	50.9	Alioth	166	13.8	N 55	49.7
Achernar	335	19.9	S 57	06.5	Spica	158	22.9	S 11	17.3
Hamal	327	51.3	N 23	34.9	Alkaid	152	52.5	N 49	11.6
Polaris	313	52.5	N 89	21.9	Hadar	148	36.9	S 60	29.6
Acamar	315	11.6	S 40	12.1	Menkent	147	58.0	S 36	29.2
Menkar	314	06.2	N 04	11.4	Arcturus	145	48.0	N 19	04.2
Mirfak	308	28.3	N 49	56.8	Rigel Kentaurus	139	38.3	S 60	56.5
Aldebaran	290	39.8	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	22.2	N 46	01.4	Kocab	137	20.5	N 74	03.4
Rigel	281	04.1	S 08	10.2	Alphecca	126	04.2	N 26	38.1
Bellatrix	278	23.1	N 06	22.5	Antares	112	16.4	S 26	29.2
Elnath	278	02.2	N 28	37.8	Atria	107	10.9	S 69	04.5
Alnilam	275	38.0	S 01	11.0	Sabik	102	03.2	S 15	45.3
Betelgeuze	270	52.4	N 07	24.8	Shaula	96	10.8	S 37	07.4
Canopus	263	52.6	S 52	42.1	Rasalhague	95	58.9	N 12	32.8
Sirius	258	26.3	S 16	44.2	Etamin	90	42.3	N 51	29.4
Adhara	255	06.2	S 29	00.0	Kaus Australis	83	32.8	S 34	22.4
Castor	245	57.5	N 31	50.1	Vega	80	33.4	N 38	48.5
Procyon	244	51.0	N 05	10.3	Nunki	75	48.0	S 26	16.0
Pollux	243	17.4	N 27	58.0	Albireo	67	04.1	N 28	00.9
Avior	234	15.2	S 59	35.0	Altair	62	00.3	N 08	56.0
Suhail	222	46.8	S 43	31.6	Peacock	53	05.8	S 56	39.4
Miaplacidus	221	38.9	S 69	48.8	Deneb	49	25.7	N 45	22.3
Alphard	217	48.3	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	34.9	N 11	50.9	Alnair	27	32.9	S 46	50.5
Dubhe	193	41.8	N 61	37.1	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.3	N 14	26.2	Markab	13	29.9	N 15	20.4

2024 - First Point of Aries / Selected Stars

UT	day 271 of 366		day 272 of 366		day 273 of 366		day 274 of 366		day 275 of 366		UT					
	<i>September 27</i>		<i>September 28</i>		<i>September 29</i>		<i>September 30</i>		<i>October 1</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	6	16.6	+02.5	7	15.8	+02.4	8	14.9	+02.5	9	14.0	+02.5	10	13.2	+02.4	00
01	21	19.1	+02.4	22	18.2	+02.5	23	17.4	+02.4	24	16.5	+02.5	25	15.6	+02.5	01
02	36	21.5	+02.5	37	20.7	+02.4	38	19.8	+02.5	39	19.0	+02.4	40	18.1	+02.5	02
03	51	24.0	+02.5	52	23.1	+02.5	53	22.3	+02.4	54	21.4	+02.5	55	20.6	+02.4	03
04	66	26.5	+02.4	67	25.6	+02.5	68	24.7	+02.5	69	23.9	+02.4	70	23.0	+02.5	04
05	81	28.9	+02.5	82	28.1	+02.4	83	27.2	+02.5	84	26.3	+02.5	85	25.5	+02.5	05
06	96	31.4	+02.5	97	30.5	+02.5	98	29.7	+02.4	99	28.8	+02.5	100	28.0	+02.4	06
07	111	33.9	+02.4	112	33.0	+02.5	113	32.1	+02.5	114	31.3	+02.4	115	30.4	+02.5	07
08	126	36.3	+02.5	127	35.5	+02.4	128	34.6	+02.5	129	33.7	+02.5	130	32.9	+02.4	08
09	141	38.8	+02.5	142	37.9	+02.5	143	37.1	+02.4	144	36.2	+02.5	145	35.3	+02.5	09
10	156	41.3	+02.4	157	40.4	+02.5	158	39.5	+02.5	159	38.7	+02.4	160	37.8	+02.5	10
11	171	43.7	+02.5	172	42.9	+02.4	173	42.0	+02.5	174	41.1	+02.5	175	40.3	+02.4	11
12	186	46.2	+02.4	187	45.3	+02.5	188	44.5	+02.4	189	43.6	+02.5	190	42.7	+02.5	12
13	201	48.6	+02.5	202	47.8	+02.5	203	46.9	+02.5	204	46.1	+02.4	205	45.2	+02.5	13
14	216	51.1	+02.5	217	50.3	+02.4	218	49.4	+02.5	219	48.5	+02.5	220	47.7	+02.4	14
15	231	53.6	+02.4	232	52.7	+02.5	233	51.9	+02.4	234	51.0	+02.5	235	50.1	+02.5	15
16	246	56.0	+02.5	247	55.2	+02.4	248	54.3	+02.5	249	53.5	+02.4	250	52.6	+02.5	16
17	261	58.5	+02.5	262	57.6	+02.5	263	56.8	+02.4	264	55.9	+02.5	265	55.1	+02.4	17
18	277	01.0	+02.4	278	00.1	+02.5	278	59.2	+02.5	279	58.4	+02.4	280	57.5	+02.5	18
19	292	03.4	+02.5	293	02.6	+02.4	294	01.7	+02.5	295	00.8	+02.5	295	60.0	+02.4	19
20	307	05.9	+02.5	308	05.0	+02.5	309	04.2	+02.4	310	03.3	+02.5	311	02.4	+02.5	20
21	322	08.4	+02.4	323	07.5	+02.5	324	06.6	+02.5	325	05.8	+02.4	326	04.9	+02.5	21
22	337	10.8	+02.5	338	10.0	+02.4	339	09.1	+02.5	340	08.2	+02.5	341	07.4	+02.4	22
23	352	13.3	+02.5	353	12.4	+02.5	354	11.6	+02.4	355	10.7	+02.5	356	09.8	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	34.7	N 29	13.8	Gienah	175	44.1	S 17	40.6
Ankaa	353	07.0	S 42	10.0	Acrux	173	01.1	S 63	14.1
Schedir	349	30.8	N 56	40.4	Gacrux	171	52.6	S 57	14.9
Diphda	348	47.3	S 17	50.9	Alioth	166	13.8	N 55	49.6
Achernar	335	19.8	S 57	06.5	Spica	158	22.9	S 11	17.3
Hamal	327	51.2	N 23	34.9	Alkaid	152	52.5	N 49	11.6
Polaris	313	50.2	N 89	21.9	Hadar	148	36.9	S 60	29.6
Acamar	315	11.6	S 40	12.1	Menkent	147	58.0	S 36	29.2
Menkar	314	06.2	N 04	11.4	Arcturus	145	48.0	N 19	04.2
Mirfak	308	28.3	N 49	56.9	Rigel Kentaurus	139	38.3	S 60	56.5
Aldebaran	290	39.8	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	22.2	N 46	01.4	Kocab	137	20.6	N 74	03.4
Rigel	281	04.0	S 08	10.2	Alphecca	126	04.2	N 26	38.1
Bellatrix	278	23.1	N 06	22.5	Antares	112	16.4	S 26	29.2
Elnath	278	02.1	N 28	37.8	Atria	107	11.0	S 69	04.5
Alnilam	275	37.9	S 01	11.0	Sabik	102	03.2	S 15	45.3
Betelgeuze	270	52.3	N 07	24.8	Shaula	96	10.8	S 37	07.4
Canopus	263	52.5	S 52	42.1	Rasalhague	95	58.9	N 12	32.8
Sirius	258	26.3	S 16	44.2	Etamin	90	42.3	N 51	29.4
Adhara	255	06.1	S 28	60.0	Kaus Australis	83	32.8	S 34	22.4
Castor	245	57.4	N 31	50.1	Vega	80	33.5	N 38	48.5
Procyon	244	50.9	N 05	10.2	Nunki	75	48.0	S 26	16.0
Pollux	243	17.4	N 27	58.0	Albireo	67	04.2	N 28	00.9
Avior	234	15.2	S 59	35.0	Altair	62	00.3	N 08	56.0
Suhail	222	46.8	S 43	31.6	Peacock	53	05.8	S 56	39.5
Miaplacidus	221	38.8	S 69	48.8	Deneb	49	25.7	N 45	22.3
Alphard	217	48.2	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	34.8	N 11	50.9	Alnair	27	32.9	S 46	50.5
Dubhe	193	41.8	N 61	37.1	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.3	N 14	26.2	Markab	13	29.9	N 15	20.5

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UT	day 276 of 366		day 277 of 366		day 278 of 366		day 279 of 366		day 280 of 366		UT					
	October 2		October 3		October 4		October 5		October 6							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	11	12.3	+02.5	12	11.4	+02.5	13	10.6	+02.4	14	09.7	+02.5	15	08.9	+02.4	00
01	26	14.8	+02.4	27	13.9	+02.5	28	13.0	+02.5	29	12.2	+02.4	30	11.3	+02.5	01
02	41	17.2	+02.5	42	16.4	+02.4	43	15.5	+02.5	44	14.6	+02.5	45	13.8	+02.4	02
03	56	19.7	+02.5	57	18.8	+02.5	58	18.0	+02.4	59	17.1	+02.5	60	16.2	+02.5	03
04	71	22.2	+02.4	72	21.3	+02.5	73	20.4	+02.5	74	19.6	+02.4	75	18.7	+02.5	04
05	86	24.6	+02.5	87	23.8	+02.4	88	22.9	+02.5	89	22.0	+02.5	90	21.2	+02.4	05
06	101	27.1	+02.5	102	26.2	+02.5	103	25.4	+02.4	104	24.5	+02.5	105	23.6	+02.5	06
07	116	29.6	+02.4	117	28.7	+02.5	118	27.8	+02.5	119	27.0	+02.4	120	26.1	+02.5	07
08	131	32.0	+02.5	132	31.2	+02.4	133	30.3	+02.5	134	29.4	+02.5	135	28.6	+02.4	08
09	146	34.5	+02.4	147	33.6	+02.5	148	32.8	+02.4	149	31.9	+02.5	150	31.0	+02.5	09
10	161	36.9	+02.5	162	36.1	+02.4	163	35.2	+02.5	164	34.4	+02.4	165	33.5	+02.5	10
11	176	39.4	+02.5	177	38.5	+02.5	178	37.7	+02.4	179	36.8	+02.5	180	36.0	+02.4	11
12	191	41.9	+02.4	192	41.0	+02.5	193	40.1	+02.5	194	39.3	+02.4	195	38.4	+02.5	12
13	206	44.3	+02.5	207	43.5	+02.4	208	42.6	+02.5	209	41.7	+02.5	210	40.9	+02.4	13
14	221	46.8	+02.5	222	45.9	+02.5	223	45.1	+02.4	224	44.2	+02.5	225	43.3	+02.5	14
15	236	49.3	+02.4	237	48.4	+02.5	238	47.5	+02.5	239	46.7	+02.4	240	45.8	+02.5	15
16	251	51.7	+02.5	252	50.9	+02.4	253	50.0	+02.5	254	49.1	+02.5	255	48.3	+02.4	16
17	266	54.2	+02.5	267	53.3	+02.5	268	52.5	+02.4	269	51.6	+02.5	270	50.7	+02.5	17
18	281	56.7	+02.4	282	55.8	+02.5	283	54.9	+02.5	284	54.1	+02.4	285	53.2	+02.5	18
19	296	59.1	+02.5	297	58.3	+02.4	298	57.4	+02.5	299	56.5	+02.5	300	55.7	+02.4	19
20	312	01.6	+02.4	313	00.7	+02.5	313	59.9	+02.4	314	59.0	+02.5	315	58.1	+02.5	20
21	327	04.0	+02.5	328	03.2	+02.4	329	02.3	+02.5	330	01.5	+02.4	331	00.6	+02.5	21
22	342	06.5	+02.5	343	05.6	+02.5	344	04.8	+02.4	345	03.9	+02.5	346	03.1	+02.4	22
23	357	09.0	+02.4	358	08.1	+02.5	359	07.2	+02.5	0	06.4	+02.5	1	05.5	+02.5	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.7	N 29 13.8	Gienah	175 44.1	S 17 40.6
Ankaa	353 07.0	S 42 10.1	Acrux	173 01.1	S 63 14.1
Schedir	349 30.8	N 56 40.5	Gacrux	171 52.6	S 57 14.9
Diphda	348 47.3	S 17 50.9	Alioth	166 13.8	N 55 49.6
Achernar	335 19.8	S 57 06.5	Spica	158 22.9	S 11 17.3
Hamal	327 51.2	N 23 34.9	Alkaid	152 52.6	N 49 11.5
Polaris	313 48.5	N 89 21.9	Hadar	148 37.0	S 60 29.6
Acamar	315 11.6	S 40 12.1	Menkent	147 58.0	S 36 29.2
Menkar	314 06.1	N 04 11.4	Arcturus	145 48.0	N 19 04.2
Mirfak	308 28.3	N 49 56.9	Rigel Kentaurus	139 38.4	S 60 56.5
Aldebaran	290 39.7	N 16 33.7	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 22.1	N 46 01.4	Kocab	137 20.6	N 74 03.4
Rigel	281 04.0	S 08 10.2	Alphecca	126 04.2	N 26 38.1
Bellatrix	278 23.0	N 06 22.5	Antares	112 16.4	S 26 29.2
Elnath	278 02.1	N 28 37.8	Atria	107 11.0	S 69 04.5
Alnilam	275 37.9	S 01 11.0	Sabik	102 03.2	S 15 45.4
Betelgeuze	270 52.3	N 07 24.8	Shaula	96 10.8	S 37 07.4
Canopus	263 52.5	S 52 42.1	Rasalhague	95 58.9	N 12 32.8
Sirius	258 26.2	S 16 44.2	Etamin	90 42.4	N 51 29.4
Adhara	255 06.1	S 28 60.0	Kaus Australis	83 32.8	S 34 22.4
Castor	245 57.4	N 31 50.1	Vega	80 33.5	N 38 48.5
Procyon	244 50.9	N 05 10.2	Nunki	75 48.0	S 26 16.0
Pollux	243 17.3	N 27 58.0	Albireo	67 04.2	N 28 00.9
Avior	234 15.1	S 59 35.0	Altair	62 00.3	N 08 56.0
Suhail	222 46.8	S 43 31.6	Peacock	53 05.8	S 56 39.5
Miaplacidus	221 38.8	S 69 48.8	Deneb	49 25.8	N 45 22.3
Alphard	217 48.2	S 08 45.8	Enif	33 38.8	N 09 59.4
Regulus	207 34.8	N 11 50.9	Alnair	27 32.9	S 46 50.5
Dubhe	193 41.7	N 61 37.0	Formalhaut	15 14.6	S 29 29.4
Denebola	182 25.3	N 14 26.2	Markab	13 29.9	N 15 20.5

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UT	day 281 of 366		day 282 of 366		day 283 of 366		day 284 of 366		day 285 of 366		UT					
	<i>October 7</i>		<i>October 8</i>		<i>October 9</i>		<i>October 10</i>		<i>October 11</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	16	08.0	+02.5	17	07.1	+02.5	18	06.3	+02.4	19	05.4	+02.5	20	04.5	+02.5	00
01	31	10.5	+02.4	32	09.6	+02.5	33	08.7	+02.5	34	07.9	+02.4	35	07.0	+02.5	01
02	46	12.9	+02.5	47	12.1	+02.4	48	11.2	+02.5	49	10.3	+02.5	50	09.5	+02.4	02
03	61	15.4	+02.4	62	14.5	+02.5	63	13.7	+02.4	64	12.8	+02.5	65	11.9	+02.5	03
04	76	17.8	+02.5	77	17.0	+02.5	78	16.1	+02.5	79	15.3	+02.4	80	14.4	+02.5	04
05	91	20.3	+02.5	92	19.5	+02.4	93	18.6	+02.5	94	17.7	+02.5	95	16.9	+02.4	05
06	106	22.8	+02.4	107	21.9	+02.5	108	21.1	+02.4	109	20.2	+02.5	110	19.3	+02.5	06
07	121	25.2	+02.5	122	24.4	+02.4	123	23.5	+02.5	124	22.7	+02.4	125	21.8	+02.5	07
08	136	27.7	+02.5	137	26.8	+02.5	138	26.0	+02.4	139	25.1	+02.5	140	24.3	+02.4	08
09	151	30.2	+02.4	152	29.3	+02.5	153	28.4	+02.5	154	27.6	+02.5	155	26.7	+02.5	09
10	166	32.6	+02.5	167	31.8	+02.4	168	30.9	+02.5	169	30.1	+02.4	170	29.2	+02.5	10
11	181	35.1	+02.5	182	34.2	+02.5	183	33.4	+02.4	184	32.5	+02.5	185	31.7	+02.4	11
12	196	37.6	+02.4	197	36.7	+02.5	198	35.8	+02.5	199	35.0	+02.4	200	34.1	+02.5	12
13	211	40.0	+02.5	212	39.2	+02.4	213	38.3	+02.5	214	37.4	+02.5	215	36.6	+02.4	13
14	226	42.5	+02.5	227	41.6	+02.5	228	40.8	+02.4	229	39.9	+02.5	230	39.0	+02.5	14
15	241	45.0	+02.4	242	44.1	+02.5	243	43.2	+02.5	244	42.4	+02.4	245	41.5	+02.5	15
16	256	47.4	+02.5	257	46.6	+02.4	258	45.7	+02.5	259	44.8	+02.5	260	44.0	+02.4	16
17	271	49.9	+02.4	272	49.0	+02.5	273	48.2	+02.4	274	47.3	+02.5	275	46.4	+02.5	17
18	286	52.3	+02.5	287	51.5	+02.4	288	50.6	+02.5	289	49.8	+02.4	290	48.9	+02.5	18
19	301	54.8	+02.5	302	53.9	+02.5	303	53.1	+02.5	304	52.2	+02.5	305	51.4	+02.4	19
20	316	57.3	+02.4	317	56.4	+02.5	318	55.6	+02.4	319	54.7	+02.5	320	53.8	+02.5	20
21	331	59.7	+02.5	332	58.9	+02.4	333	58.0	+02.5	334	57.2	+02.4	335	56.3	+02.5	21
22	347	02.2	+02.5	348	01.3	+02.5	349	00.5	+02.4	349	59.6	+02.5	350	58.8	+02.4	22
23	2	04.7	+02.4	3	03.8	+02.5	4	02.9	+02.5	5	02.1	+02.4	6	01.2	+02.5	23

	SHA	Dec		SHA	Dec				
	° ' "	' "		° ' "	' "				
Alpheratz	357	34.7	N 29	13.8	Gienah	175	44.1	S 17	40.6
Ankaa	353	07.0	S 42	10.1	Acrux	173	01.1	S 63	14.1
Schedir	349	30.8	N 56	40.5	Gacrux	171	52.6	S 57	14.9
Diphda	348	47.3	S 17	50.9	Alioth	166	13.8	N 55	49.6
Achernar	335	19.8	S 57	06.5	Spica	158	22.9	S 11	17.3
Hamal	327	51.2	N 23	34.9	Alkaid	152	52.6	N 49	11.5
Polaris	313	46.7	N 89	22.0	Hadar	148	37.0	S 60	29.5
Acamar	315	11.5	S 40	12.1	Menkent	147	58.0	S 36	29.2
Menkar	314	06.1	N 04	11.4	Arcturus	145	48.0	N 19	04.2
Mirfak	308	28.2	N 49	56.9	Rigel Kentaurus	139	38.4	S 60	56.5
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	22.1	N 46	01.4	Kocab	137	20.7	N 74	03.3
Rigel	281	03.9	S 08	10.2	Alphecca	126	04.3	N 26	38.1
Bellatrix	278	23.0	N 06	22.5	Antares	112	16.5	S 26	29.2
Elnath	278	02.0	N 28	37.8	Atria	107	11.1	S 69	04.5
Alnilam	275	37.9	S 01	11.0	Sabik	102	03.2	S 15	45.3
Betelgeuze	270	52.3	N 07	24.8	Shaula	96	10.8	S 37	07.4
Canopus	263	52.4	S 52	42.1	Rasalhague	95	58.9	N 12	32.8
Sirius	258	26.2	S 16	44.2	Etamin	90	42.4	N 51	29.4
Adhara	255	06.0	S 29	00.0	Kaus Australis	83	32.9	S 34	22.4
Castor	245	57.3	N 31	50.1	Vega	80	33.5	N 38	48.5
Procyon	244	50.9	N 05	10.2	Nunki	75	48.1	S 26	16.0
Pollux	243	17.3	N 27	58.0	Albireo	67	04.2	N 28	00.9
Avior	234	15.1	S 59	34.9	Altair	62	00.3	N 08	56.0
Suhail	222	46.7	S 43	31.6	Peacock	53	05.9	S 56	39.5
Miaplacidus	221	38.7	S 69	48.8	Deneb	49	25.8	N 45	22.3
Alphard	217	48.2	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	34.8	N 11	50.9	Alnair	27	32.9	S 46	50.5
Dubhe	193	41.7	N 61	37.0	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.3	N 14	26.2	Markab	13	29.9	N 15	20.5

2024 - First Point of Aries / Selected Stars

UT	day 286 of 366			day 287 of 366			day 288 of 366			day 289 of 366			day 290 of 366			UT		
	<i>October 12</i>			<i>October 13</i>			<i>October 14</i>			<i>October 15</i>			<i>October 16</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	21	03.7	+02.5	22	02.8	+02.5	23	02.0	+02.4	24	01.1	+02.5	25	00.2	+02.5	00		
01	36	06.2	+02.4	37	05.3	+02.5	38	04.4	+02.5	39	03.6	+02.4	40	02.7	+02.5	01		
02	51	08.6	+02.5	52	07.8	+02.4	53	06.9	+02.5	54	06.0	+02.5	55	05.2	+02.4	02		
03	66	11.1	+02.4	67	10.2	+02.5	68	09.4	+02.4	69	08.5	+02.5	70	07.6	+02.5	03		
04	81	13.5	+02.5	82	12.7	+02.4	83	11.8	+02.5	84	11.0	+02.4	85	10.1	+02.5	04		
05	96	16.0	+02.5	97	15.1	+02.5	98	14.3	+02.5	99	13.4	+02.5	100	12.6	+02.4	05		
06	111	18.5	+02.4	112	17.6	+02.5	113	16.8	+02.4	114	15.9	+02.5	115	15.0	+02.5	06		
07	126	20.9	+02.5	127	20.1	+02.4	128	19.2	+02.5	129	18.4	+02.4	130	17.5	+02.5	07		
08	141	23.4	+02.5	142	22.5	+02.5	143	21.7	+02.4	144	20.8	+02.5	145	20.0	+02.4	08		
09	156	25.9	+02.4	157	25.0	+02.5	158	24.1	+02.5	159	23.3	+02.4	160	22.4	+02.5	09		
10	171	28.3	+02.5	172	27.5	+02.4	173	26.6	+02.5	174	25.7	+02.5	175	24.9	+02.4	10		
11	186	30.8	+02.5	187	29.9	+02.5	188	29.1	+02.4	189	28.2	+02.5	190	27.3	+02.5	11		
12	201	33.3	+02.4	202	32.4	+02.5	203	31.5	+02.5	204	30.7	+02.4	205	29.8	+02.5	12		
13	216	35.7	+02.5	217	34.9	+02.4	218	34.0	+02.5	219	33.1	+02.5	220	32.3	+02.4	13		
14	231	38.2	+02.5	232	37.3	+02.5	233	36.5	+02.4	234	35.6	+02.5	235	34.7	+02.5	14		
15	246	40.7	+02.4	247	39.8	+02.5	248	38.9	+02.5	249	38.1	+02.4	250	37.2	+02.5	15		
16	261	43.1	+02.5	262	42.3	+02.4	263	41.4	+02.5	264	40.5	+02.5	265	39.7	+02.4	16		
17	276	45.6	+02.4	277	44.7	+02.5	278	43.9	+02.4	279	43.0	+02.5	280	42.1	+02.5	17		
18	291	48.0	+02.5	292	47.2	+02.4	293	46.3	+02.5	294	45.5	+02.4	295	44.6	+02.5	18		
19	306	50.5	+02.5	307	49.6	+02.5	308	48.8	+02.4	309	47.9	+02.5	310	47.1	+02.4	19		
20	321	53.0	+02.4	322	52.1	+02.5	323	51.2	+02.5	324	50.4	+02.4	325	49.5	+02.5	20		
21	336	55.4	+02.5	337	54.6	+02.4	338	53.7	+02.5	339	52.8	+02.5	340	52.0	+02.4	21		
22	351	57.9	+02.5	352	57.0	+02.5	353	56.2	+02.4	354	55.3	+02.5	355	54.4	+02.5	22		
23	7	00.4	+02.4	7	59.5	+02.5	8	58.6	+02.5	9	57.8	+02.4	10	56.9	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.7	N 29	13.8	Gienah	175	44.1	S 17	40.6
Ankaa	353	07.0	S 42	10.1	Acrux	173	01.1	S 63	14.0
Schedir	349	30.8	N 56	40.5	Gacrux	171	52.5	S 57	14.9
Diphda	348	47.3	S 17	51.0	Alioth	166	13.8	N 55	49.6
Achernar	335	19.8	S 57	06.5	Spica	158	22.8	S 11	17.3
Hamal	327	51.2	N 23	34.9	Alkaid	152	52.6	N 49	11.5
Polaris	313	44.8	N 89	22.0	Hadar	148	37.0	S 60	29.5
Acamar	315	11.5	S 40	12.1	Menkent	147	58.0	S 36	29.2
Menkar	314	06.1	N 04	11.4	Arcturus	145	48.0	N 19	04.1
Mirfak	308	28.2	N 49	56.9	Rigel Kentaurus	139	38.4	S 60	56.5
Aldebaran	290	39.7	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	22.0	N 46	01.4	Kocab	137	20.8	N 74	03.3
Rigel	281	03.9	S 08	10.2	Alphecca	126	04.3	N 26	38.1
Bellatrix	278	22.9	N 06	22.5	Antares	112	16.5	S 26	29.2
Elnath	278	02.0	N 28	37.8	Atria	107	11.1	S 69	04.5
Alnilam	275	37.8	S 01	11.0	Sabik	102	03.2	S 15	45.3
Betelgeuze	270	52.2	N 07	24.8	Shaula	96	10.8	S 37	07.4
Canopus	263	52.4	S 52	42.1	Rasalhague	95	58.9	N 12	32.7
Sirius	258	26.2	S 16	44.2	Etamin	90	42.5	N 51	29.4
Adhara	255	06.0	S 29	00.0	Kaus Australis	83	32.9	S 34	22.4
Castor	245	57.3	N 31	50.0	Vega	80	33.6	N 38	48.5
Procyon	244	50.8	N 05	10.2	Nunki	75	48.1	S 26	16.0
Pollux	243	17.2	N 27	58.0	Albireo	67	04.2	N 28	00.9
Avior	234	15.0	S 59	34.9	Altair	62	00.3	N 08	56.0
Suhail	222	46.7	S 43	31.6	Peacock	53	05.9	S 56	39.5
Miaplacidus	221	38.6	S 69	48.8	Deneb	49	25.8	N 45	22.4
Alphard	217	48.1	S 08	45.8	Enif	33	38.8	N 09	59.4
Regulus	207	34.8	N 11	50.9	Alnair	27	32.9	S 46	50.5
Dubhe	193	41.7	N 61	37.0	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.3	N 14	26.2	Markab	13	29.9	N 15	20.5

2024 - First Point of Aries / Selected Stars

UT	day 291 of 366		day 292 of 366		day 293 of 366		day 294 of 366		day 295 of 366		UT					
	<i>October 17</i>		<i>October 18</i>		<i>October 19</i>		<i>October 20</i>		<i>October 21</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	25	59.4	+02.4	26	58.5	+02.5	27	57.7	+02.4	28	56.8	+02.5	29	55.9	+02.5	00
01	41	01.8	+02.5	42	01.0	+02.4	43	00.1	+02.5	43	59.3	+02.4	44	58.4	+02.5	01
02	56	04.3	+02.5	57	03.4	+02.5	58	02.6	+02.4	59	01.7	+02.5	60	00.9	+02.4	02
03	71	06.8	+02.4	72	05.9	+02.5	73	05.0	+02.5	74	04.2	+02.5	75	03.3	+02.5	03
04	86	09.2	+02.5	87	08.4	+02.4	88	07.5	+02.5	89	06.7	+02.4	90	05.8	+02.5	04
05	101	11.7	+02.5	102	10.8	+02.5	103	10.0	+02.4	104	09.1	+02.5	105	08.3	+02.4	05
06	116	14.2	+02.4	117	13.3	+02.5	118	12.4	+02.5	119	11.6	+02.4	120	10.7	+02.5	06
07	131	16.6	+02.5	132	15.8	+02.4	133	14.9	+02.5	134	14.0	+02.5	135	13.2	+02.4	07
08	146	19.1	+02.5	147	18.2	+02.5	148	17.4	+02.4	149	16.5	+02.5	150	15.6	+02.5	08
09	161	21.6	+02.4	162	20.7	+02.5	163	19.8	+02.5	164	19.0	+02.4	165	18.1	+02.5	09
10	176	24.0	+02.5	177	23.2	+02.4	178	22.3	+02.5	179	21.4	+02.5	180	20.6	+02.4	10
11	191	26.5	+02.4	192	25.6	+02.5	193	24.8	+02.4	194	23.9	+02.5	195	23.0	+02.5	11
12	206	28.9	+02.5	207	28.1	+02.4	208	27.2	+02.5	209	26.4	+02.4	210	25.5	+02.5	12
13	221	31.4	+02.5	222	30.5	+02.5	223	29.7	+02.5	224	28.8	+02.5	225	28.0	+02.4	13
14	236	33.9	+02.4	237	33.0	+02.5	238	32.2	+02.4	239	31.3	+02.5	240	30.4	+02.5	14
15	251	36.3	+02.5	252	35.5	+02.4	253	34.6	+02.5	254	33.8	+02.4	255	32.9	+02.5	15
16	266	38.8	+02.5	267	37.9	+02.5	268	37.1	+02.4	269	36.2	+02.5	270	35.4	+02.4	16
17	281	41.3	+02.4	282	40.4	+02.5	283	39.5	+02.5	284	38.7	+02.4	285	37.8	+02.5	17
18	296	43.7	+02.5	297	42.9	+02.4	298	42.0	+02.5	299	41.1	+02.5	300	40.3	+02.5	18
19	311	46.2	+02.5	312	45.3	+02.5	313	44.5	+02.4	314	43.6	+02.5	315	42.8	+02.4	19
20	326	48.7	+02.4	327	47.8	+02.5	328	46.9	+02.5	329	46.1	+02.4	330	45.2	+02.5	20
21	341	51.1	+02.5	342	50.3	+02.4	343	49.4	+02.5	344	48.5	+02.5	345	47.7	+02.4	21
22	356	53.6	+02.5	357	52.7	+02.5	358	51.9	+02.4	359	51.0	+02.5	0	50.1	+02.5	22
23	11	56.1	+02.4	12	55.2	+02.5	13	54.3	+02.5	14	53.5	+02.4	15	52.6	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.7	N 29	13.9	Gienah	175	44.1	S 17	40.6
Ankaa	353	07.0	S 42	10.1	Acrux	173	01.1	S 63	14.0
Schedir	349	30.8	N 56	40.5	Gacrux	171	52.5	S 57	14.9
Diphda	348	47.3	S 17	51.0	Alioth	166	13.8	N 55	49.5
Achernar	335	19.8	S 57	06.6	Spica	158	22.8	S 11	17.3
Hamal	327	51.2	N 23	34.9	Alkaid	152	52.6	N 49	11.4
Polaris	313	43.6	N 89	22.0	Hadar	148	37.0	S 60	29.5
Acamar	315	11.5	S 40	12.1	Menkent	147	58.0	S 36	29.1
Menkar	314	06.1	N 04	11.4	Arcturus	145	48.0	N 19	04.1
Mirfak	308	28.1	N 49	56.9	Rigel Kentaurus	139	38.4	S 60	56.5
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	22.0	N 46	01.5	Kocab	137	20.8	N 74	03.3
Rigel	281	03.9	S 08	10.2	Alphecca	126	04.3	N 26	38.0
Bellatrix	278	22.9	N 06	22.5	Antares	112	16.5	S 26	29.2
Elnath	278	01.9	N 28	37.8	Atria	107	11.2	S 69	04.5
Alnilam	275	37.8	S 01	11.0	Sabik	102	03.2	S 15	45.3
Betelgeuze	270	52.2	N 07	24.8	Shaula	96	10.9	S 37	07.4
Canopus	263	52.3	S 52	42.1	Rasalhague	95	59.0	N 12	32.7
Sirius	258	26.1	S 16	44.2	Etamin	90	42.5	N 51	29.4
Adhara	255	06.0	S 29	00.0	Kaus Australis	83	32.9	S 34	22.4
Castor	245	57.2	N 31	50.0	Vega	80	33.6	N 38	48.5
Procyon	244	50.8	N 05	10.2	Nunki	75	48.1	S 26	16.0
Pollux	243	17.2	N 27	58.0	Albireo	67	04.3	N 28	00.9
Avior	234	15.0	S 59	34.9	Altair	62	00.4	N 08	56.0
Suhail	222	46.6	S 43	31.6	Peacock	53	05.9	S 56	39.5
Miaplacidus	221	38.6	S 69	48.8	Deneb	49	25.9	N 45	22.4
Alphard	217	48.1	S 08	45.8	Enif	33	38.9	N 09	59.4
Regulus	207	34.7	N 11	50.9	Alnair	27	32.9	S 46	50.5
Dubhe	193	41.6	N 61	36.9	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.3	N 14	26.2	Markab	13	29.9	N 15	20.5

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UT	day 296 of 366		day 297 of 366		day 298 of 366		day 299 of 366		day 300 of 366		UT					
	October 22		October 23		October 24		October 25		October 26							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	30	55.1	+02.4	31	54.2	+02.5	32	53.4	+02.4	33	52.5	+02.5	34	51.6	+02.5	00
01	45	57.5	+02.5	46	56.7	+02.4	47	55.8	+02.5	48	55.0	+02.4	49	54.1	+02.5	01
02	61	00.0	+02.5	61	59.1	+02.5	62	58.3	+02.4	63	57.4	+02.5	64	56.6	+02.4	02
03	76	02.5	+02.4	77	01.6	+02.5	78	00.7	+02.5	78	59.9	+02.5	79	59.0	+02.5	03
04	91	04.9	+02.5	92	04.1	+02.4	93	03.2	+02.5	94	02.4	+02.4	95	01.5	+02.5	04
05	106	07.4	+02.5	107	06.5	+02.5	108	05.7	+02.4	109	04.8	+02.5	110	04.0	+02.4	05
06	121	09.9	+02.4	122	09.0	+02.5	123	08.1	+02.5	124	07.3	+02.4	125	06.4	+02.5	06
07	136	12.3	+02.5	137	11.5	+02.4	138	10.6	+02.5	139	09.7	+02.5	140	08.9	+02.4	07
08	151	14.8	+02.5	152	13.9	+02.5	153	13.1	+02.4	154	12.2	+02.5	155	11.3	+02.5	08
09	166	17.3	+02.4	167	16.4	+02.5	168	15.5	+02.5	169	14.7	+02.4	170	13.8	+02.5	09
10	181	19.7	+02.5	182	18.9	+02.4	183	18.0	+02.5	184	17.1	+02.5	185	16.3	+02.4	10
11	196	22.2	+02.4	197	21.3	+02.5	198	20.5	+02.4	199	19.6	+02.5	200	18.7	+02.5	11
12	211	24.6	+02.5	212	23.8	+02.4	213	22.9	+02.5	214	22.1	+02.4	215	21.2	+02.5	12
13	226	27.1	+02.5	227	26.2	+02.5	228	25.4	+02.5	229	24.5	+02.5	230	23.7	+02.4	13
14	241	29.6	+02.4	242	28.7	+02.5	243	27.9	+02.4	244	27.0	+02.5	245	26.1	+02.5	14
15	256	32.0	+02.5	257	31.2	+02.4	258	30.3	+02.5	259	29.5	+02.4	260	28.6	+02.5	15
16	271	34.5	+02.5	272	33.6	+02.5	273	32.8	+02.4	274	31.9	+02.5	275	31.1	+02.4	16
17	286	37.0	+02.4	287	36.1	+02.5	288	35.2	+02.5	289	34.4	+02.4	290	33.5	+02.5	17
18	301	39.4	+02.5	302	38.6	+02.4	303	37.7	+02.5	304	36.8	+02.5	305	36.0	+02.5	18
19	316	41.9	+02.5	317	41.0	+02.5	318	40.2	+02.4	319	39.3	+02.5	320	38.5	+02.4	19
20	331	44.4	+02.4	332	43.5	+02.5	333	42.6	+02.5	334	41.8	+02.4	335	40.9	+02.5	20
21	346	46.8	+02.5	347	46.0	+02.4	348	45.1	+02.5	349	44.2	+02.5	350	43.4	+02.4	21
22	1	49.3	+02.5	2	48.4	+02.5	3	47.6	+02.4	4	46.7	+02.5	5	45.8	+02.5	22
23	16	51.8	+02.4	17	50.9	+02.5	18	50.0	+02.5	19	49.2	+02.4	20	48.3	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.7	N 29	13.9	Gienah	175	44.0	S 17	40.6
Ankaa	353	07.0	S 42	10.1	Acrux	173	01.0	S 63	14.0
Schedir	349	30.8	N 56	40.6	Gacrux	171	52.5	S 57	14.8
Diphda	348	47.3	S 17	51.0	Alioth	166	13.8	N 55	49.5
Achernar	335	19.8	S 57	06.6	Spica	158	22.8	S 11	17.3
Hamal	327	51.2	N 23	34.9	Alkaid	152	52.6	N 49	11.4
Polaris	313	41.9	N 89	22.0	Hadar	148	37.0	S 60	29.5
Acamar	315	11.5	S 40	12.2	Menkent	147	58.0	S 36	29.1
Menkar	314	06.0	N 04	11.4	Arcturus	145	48.0	N 19	04.1
Mirfak	308	28.1	N 49	57.0	Rigel Kentaurus	139	38.4	S 60	56.4
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	21.9	N 46	01.5	Kocab	137	20.8	N 74	03.2
Rigel	281	03.8	S 08	10.2	Alphecca	126	04.3	N 26	38.0
Bellatrix	278	22.9	N 06	22.5	Antares	112	16.5	S 26	29.2
Elnath	278	01.9	N 28	37.8	Atria	107	11.2	S 69	04.5
Alnilam	275	37.7	S 01	11.0	Sabik	102	03.3	S 15	45.3
Betelgeuze	270	52.1	N 07	24.8	Shaula	96	10.9	S 37	07.4
Canopus	263	52.3	S 52	42.2	Rasalhague	95	59.0	N 12	32.7
Sirius	258	26.1	S 16	44.3	Etamin	90	42.5	N 51	29.4
Adhara	255	05.9	S 29	00.0	Kaus Australis	83	32.9	S 34	22.4
Castor	245	57.2	N 31	50.0	Vega	80	33.6	N 38	48.5
Procyon	244	50.8	N 05	10.2	Nunki	75	48.1	S 26	16.0
Pollux	243	17.2	N 27	58.0	Albireo	67	04.3	N 28	00.9
Avior	234	14.9	S 59	34.9	Altair	62	00.4	N 08	56.0
Suhail	222	46.6	S 43	31.6	Peacock	53	06.0	S 56	39.5
Miaplacidus	221	38.5	S 69	48.8	Deneb	49	25.9	N 45	22.4
Alphard	217	48.1	S 08	45.8	Enif	33	38.9	N 09	59.5
Regulus	207	34.7	N 11	50.8	Alnair	27	33.0	S 46	50.5
Dubhe	193	41.6	N 61	36.9	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.2	N 14	26.1	Markab	13	29.9	N 15	20.5

2024 - First Point of Aries / Selected Stars

UT	day 301 of 366		day 302 of 366		day 303 of 366		day 304 of 366		day 305 of 366		UT					
	<i>October 27</i>		<i>October 28</i>		<i>October 29</i>		<i>October 30</i>		<i>October 31</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	35	50.8	+02.4	36	49.9	+02.5	37	49.0	+02.5	38	48.2	+02.4	39	47.3	+02.5	00
01	50	53.2	+02.5	51	52.4	+02.4	52	51.5	+02.5	53	50.6	+02.5	54	49.8	+02.4	01
02	65	55.7	+02.5	66	54.8	+02.5	67	54.0	+02.4	68	53.1	+02.5	69	52.2	+02.5	02
03	80	58.2	+02.4	81	57.3	+02.5	82	56.4	+02.5	83	55.6	+02.4	84	54.7	+02.5	03
04	96	00.6	+02.5	96	59.8	+02.4	97	58.9	+02.5	98	58.0	+02.5	99	57.2	+02.4	04
05	111	03.1	+02.5	112	02.2	+02.5	113	01.4	+02.4	114	00.5	+02.5	114	59.6	+02.5	05
06	126	05.6	+02.4	127	04.7	+02.5	128	03.8	+02.5	129	03.0	+02.4	130	02.1	+02.5	06
07	141	08.0	+02.5	142	07.2	+02.4	143	06.3	+02.5	144	05.4	+02.5	145	04.6	+02.4	07
08	156	10.5	+02.4	157	09.6	+02.5	158	08.8	+02.4	159	07.9	+02.5	160	07.0	+02.5	08
09	171	12.9	+02.5	172	12.1	+02.4	173	11.2	+02.5	174	10.4	+02.4	175	09.5	+02.5	09
10	186	15.4	+02.5	187	14.5	+02.5	188	13.7	+02.5	189	12.8	+02.5	190	12.0	+02.4	10
11	201	17.9	+02.4	202	17.0	+02.5	203	16.2	+02.4	204	15.3	+02.5	205	14.4	+02.5	11
12	216	20.3	+02.5	217	19.5	+02.4	218	18.6	+02.5	219	17.8	+02.4	220	16.9	+02.5	12
13	231	22.8	+02.5	232	21.9	+02.5	233	21.1	+02.4	234	20.2	+02.5	235	19.4	+02.4	13
14	246	25.3	+02.4	247	24.4	+02.5	248	23.5	+02.5	249	22.7	+02.4	250	21.8	+02.5	14
15	261	27.7	+02.5	262	26.9	+02.4	263	26.0	+02.5	264	25.1	+02.5	265	24.3	+02.4	15
16	276	30.2	+02.5	277	29.3	+02.5	278	28.5	+02.4	279	27.6	+02.5	280	26.7	+02.5	16
17	291	32.7	+02.4	292	31.8	+02.5	293	30.9	+02.5	294	30.1	+02.4	295	29.2	+02.5	17
18	306	35.1	+02.5	307	34.3	+02.4	308	33.4	+02.5	309	32.5	+02.5	310	31.7	+02.4	18
19	321	37.6	+02.5	322	36.7	+02.5	323	35.9	+02.4	324	35.0	+02.5	325	34.1	+02.5	19
20	336	40.1	+02.4	337	39.2	+02.5	338	38.3	+02.5	339	37.5	+02.4	340	36.6	+02.5	20
21	351	42.5	+02.5	352	41.7	+02.4	353	40.8	+02.5	354	39.9	+02.5	355	39.1	+02.4	21
22	6	45.0	+02.4	7	44.1	+02.5	8	43.3	+02.4	9	42.4	+02.5	10	41.5	+02.5	22
23	21	47.4	+02.5	22	46.6	+02.4	23	45.7	+02.5	24	44.9	+02.4	25	44.0	+02.5	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.7	N 29	13.9	Gienah	175	44.0	S 17	40.6
Ankaa	353	07.0	S 42	10.2	Acrux	173	01.0	S 63	14.0
Schedir	349	30.8	N 56	40.6	Gacrux	171	52.5	S 57	14.8
Diphda	348	47.3	S 17	51.0	Alioth	166	13.7	N 55	49.5
Achernar	335	19.8	S 57	06.6	Spica	158	22.8	S 11	17.3
Hamal	327	51.1	N 23	35.0	Alkaid	152	52.6	N 49	11.4
Polaris	313	40.9	N 89	22.1	Hadar	148	37.0	S 60	29.5
Acamar	315	11.4	S 40	12.2	Menkent	147	57.9	S 36	29.1
Menkar	314	06.0	N 04	11.4	Arcturus	145	48.0	N 19	04.1
Mirfak	308	28.1	N 49	57.0	Rigel Kentaurus	139	38.4	S 60	56.4
Aldebaran	290	39.6	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	21.9	N 46	01.5	Kocab	137	20.9	N 74	03.2
Rigel	281	03.8	S 08	10.2	Alphecca	126	04.3	N 26	38.0
Bellatrix	278	22.8	N 06	22.5	Antares	112	16.5	S 26	29.2
Elnath	278	01.9	N 28	37.8	Atria	107	11.2	S 69	04.4
Alnilam	275	37.7	S 01	11.0	Sabik	102	03.3	S 15	45.3
Betelgeuze	270	52.1	N 07	24.8	Shaula	96	10.9	S 37	07.4
Canopus	263	52.2	S 52	42.2	Rasalhague	95	59.0	N 12	32.7
Sirius	258	26.1	S 16	44.3	Etamin	90	42.6	N 51	29.3
Adhara	255	05.9	S 29	00.0	Kaus Australis	83	32.9	S 34	22.4
Castor	245	57.1	N 31	50.0	Vega	80	33.6	N 38	48.5
Procyon	244	50.7	N 05	10.2	Nunki	75	48.1	S 26	16.0
Pollux	243	17.1	N 27	58.0	Albireo	67	04.3	N 28	00.9
Avior	234	14.8	S 59	34.9	Altair	62	00.4	N 08	56.0
Suhail	222	46.5	S 43	31.6	Peacock	53	06.0	S 56	39.5
Miaplacidus	221	38.4	S 69	48.8	Deneb	49	25.9	N 45	22.4
Alphard	217	48.0	S 08	45.8	Enif	33	38.9	N 09	59.5
Regulus	207	34.7	N 11	50.8	Alnair	27	33.0	S 46	50.5
Dubhe	193	41.5	N 61	36.9	Formalhaut	15	14.6	S 29	29.4
Denebola	182	25.2	N 14	26.1	Markab	13	29.9	N 15	20.5

2024 - First Point of Aries / Selected Stars

UT	day 306 of 366			day 307 of 366			day 308 of 366			day 309 of 366			day 310 of 366			UT
	<i>November 1</i>			<i>November 2</i>			<i>November 3</i>			<i>November 4</i>			<i>November 5</i>			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	40	46.5	+02.4	41	45.6	+02.5	42	44.7	+02.5	43	43.9	+02.4	44	43.0	+02.5	00
01	55	48.9	+02.5	56	48.1	+02.4	57	47.2	+02.5	58	46.3	+02.5	59	45.5	+02.4	01
02	70	51.4	+02.5	71	50.5	+02.5	72	49.7	+02.4	73	48.8	+02.5	74	47.9	+02.5	02
03	85	53.9	+02.4	86	53.0	+02.5	87	52.1	+02.5	88	51.3	+02.4	89	50.4	+02.5	03
04	100	56.3	+02.5	101	55.5	+02.4	102	54.6	+02.5	103	53.7	+02.5	104	52.9	+02.4	04
05	115	58.8	+02.4	116	57.9	+02.5	117	57.1	+02.4	118	56.2	+02.5	119	55.3	+02.5	05
06	131	01.2	+02.5	132	00.4	+02.4	132	59.5	+02.5	133	58.7	+02.4	134	57.8	+02.5	06
07	146	03.7	+02.5	147	02.8	+02.5	148	02.0	+02.4	149	01.1	+02.5	150	00.3	+02.4	07
08	161	06.2	+02.4	162	05.3	+02.5	163	04.4	+02.5	164	03.6	+02.5	165	02.7	+02.5	08
09	176	08.6	+02.5	177	07.8	+02.4	178	06.9	+02.5	179	06.1	+02.4	180	05.2	+02.5	09
10	191	11.1	+02.5	192	10.2	+02.5	193	09.4	+02.4	194	08.5	+02.5	195	07.7	+02.4	10
11	206	13.6	+02.4	207	12.7	+02.5	208	11.8	+02.5	209	11.0	+02.4	210	10.1	+02.5	11
12	221	16.0	+02.5	222	15.2	+02.4	223	14.3	+02.5	224	13.4	+02.5	225	12.6	+02.5	12
13	236	18.5	+02.5	237	17.6	+02.5	238	16.8	+02.4	239	15.9	+02.5	240	15.1	+02.4	13
14	251	21.0	+02.4	252	20.1	+02.5	253	19.2	+02.5	254	18.4	+02.4	255	17.5	+02.5	14
15	266	23.4	+02.5	267	22.6	+02.4	268	21.7	+02.5	269	20.8	+02.5	270	20.0	+02.4	15
16	281	25.9	+02.4	282	25.0	+02.5	283	24.2	+02.4	284	23.3	+02.5	285	22.4	+02.5	16
17	296	28.3	+02.5	297	27.5	+02.5	298	26.6	+02.5	299	25.8	+02.4	300	24.9	+02.5	17
18	311	30.8	+02.5	312	30.0	+02.4	313	29.1	+02.5	314	28.2	+02.5	315	27.4	+02.4	18
19	326	33.3	+02.4	327	32.4	+02.5	328	31.6	+02.4	329	30.7	+02.5	330	29.8	+02.5	19
20	341	35.7	+02.5	342	34.9	+02.4	343	34.0	+02.5	344	33.2	+02.4	345	32.3	+02.5	20
21	356	38.2	+02.5	357	37.3	+02.5	358	36.5	+02.4	359	35.6	+02.5	0	34.8	+02.4	21
22	11	40.7	+02.4	12	39.8	+02.5	13	38.9	+02.5	14	38.1	+02.5	15	37.2	+02.5	22
23	26	43.1	+02.5	27	42.3	+02.4	28	41.4	+02.5	29	40.6	+02.4	30	39.7	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.7	N 29 13.9	Gienah	175 44.0	S 17 40.6
Ankaa	353 07.1	S 42 10.2	Acrux	173 00.9	S 63 14.0
Schedir	349 30.8	N 56 40.6	Gacrux	171 52.4	S 57 14.8
Diphda	348 47.3	S 17 51.0	Alioth	166 13.7	N 55 49.4
Achernar	335 19.8	S 57 06.6	Spica	158 22.8	S 11 17.3
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.5	N 49 11.4
Polaris	313 40.1	N 89 22.1	Hadar	148 36.9	S 60 29.4
Acamar	315 11.4	S 40 12.2	Menkent	147 57.9	S 36 29.1
Menkar	314 06.0	N 04 11.4	Arcturus	145 48.0	N 19 04.1
Mirfak	308 28.0	N 49 57.0	Rigel Kentaurus	139 38.4	S 60 56.4
Aldebaran	290 39.6	N 16 33.7	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 21.8	N 46 01.5	Kocab	137 20.9	N 74 03.2
Rigel	281 03.8	S 08 10.2	Alphecca	126 04.3	N 26 38.0
Bellatrix	278 22.8	N 06 22.4	Antares	112 16.5	S 26 29.2
Elnath	278 01.8	N 28 37.8	Atria	107 11.3	S 69 04.4
Alnilam	275 37.7	S 01 11.0	Sabik	102 03.3	S 15 45.3
Betelgeuze	270 52.1	N 07 24.8	Shaula	96 10.9	S 37 07.4
Canopus	263 52.2	S 52 42.2	Rasalhague	95 59.0	N 12 32.7
Sirius	258 26.0	S 16 44.3	Etamin	90 42.6	N 51 29.3
Adhara	255 05.8	S 29 00.0	Kaus Australis	83 33.0	S 34 22.4
Castor	245 57.1	N 31 50.0	Vega	80 33.7	N 38 48.5
Procyon	244 50.7	N 05 10.2	Nunki	75 48.2	S 26 16.0
Pollux	243 17.1	N 27 58.0	Albireo	67 04.3	N 28 00.9
Avior	234 14.8	S 59 35.0	Altair	62 00.4	N 08 56.0
Suhail	222 46.5	S 43 31.6	Peacock	53 06.1	S 56 39.5
Miaplacidus	221 38.3	S 69 48.8	Deneb	49 26.0	N 45 22.4
Alphard	217 48.0	S 08 45.8	Enif	33 38.9	N 09 59.5
Regulus	207 34.6	N 11 50.8	Alnair	27 33.0	S 46 50.6
Dubhe	193 41.5	N 61 36.9	Formalhaut	15 14.6	S 29 29.4
Denebola	182 25.2	N 14 26.1	Markab	13 29.9	N 15 20.5

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UT	day 311 of 366 November 6		day 312 of 366 November 7		day 313 of 366 November 8		day 314 of 366 November 9		day 315 of 366 November 10		UT
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	45 42.2	+02.4	46 41.3	+02.5	47 40.4	+02.5	48 39.6	+02.4	49 38.7	+02.5	00
01	60 44.6	+02.5	61 43.8	+02.4	62 42.9	+02.5	63 42.0	+02.5	64 41.2	+02.4	01
02	75 47.1	+02.4	76 46.2	+02.5	77 45.4	+02.4	78 44.5	+02.5	79 43.6	+02.5	02
03	90 49.5	+02.5	91 48.7	+02.5	92 47.8	+02.5	93 47.0	+02.4	94 46.1	+02.5	03
04	105 52.0	+02.5	106 51.2	+02.4	107 50.3	+02.5	108 49.4	+02.5	109 48.6	+02.4	04
05	120 54.5	+02.4	121 53.6	+02.5	122 52.8	+02.4	123 51.9	+02.5	124 51.0	+02.5	05
06	135 56.9	+02.5	136 56.1	+02.4	137 55.2	+02.5	138 54.4	+02.4	139 53.5	+02.5	06
07	150 59.4	+02.5	151 58.5	+02.5	152 57.7	+02.5	153 56.8	+02.5	154 56.0	+02.4	07
08	166 01.9	+02.4	167 01.0	+02.5	168 00.2	+02.4	168 59.3	+02.5	169 58.4	+02.5	08
09	181 04.3	+02.5	182 03.5	+02.4	183 02.6	+02.5	184 01.8	+02.4	185 00.9	+02.5	09
10	196 06.8	+02.5	197 05.9	+02.5	198 05.1	+02.4	199 04.2	+02.5	200 03.4	+02.4	10
11	211 09.3	+02.4	212 08.4	+02.5	213 07.5	+02.5	214 06.7	+02.4	215 05.8	+02.5	11
12	226 11.7	+02.5	227 10.9	+02.4	228 10.0	+02.5	229 09.1	+02.5	230 08.3	+02.4	12
13	241 14.2	+02.5	242 13.3	+02.5	243 12.5	+02.4	244 11.6	+02.5	245 10.7	+02.5	13
14	256 16.7	+02.4	257 15.8	+02.5	258 14.9	+02.5	259 14.1	+02.4	260 13.2	+02.5	14
15	271 19.1	+02.5	272 18.3	+02.4	273 17.4	+02.5	274 16.5	+02.5	275 15.7	+02.4	15
16	286 21.6	+02.4	287 20.7	+02.5	288 19.9	+02.4	289 19.0	+02.5	290 18.1	+02.5	16
17	301 24.0	+02.5	302 23.2	+02.5	303 22.3	+02.5	304 21.5	+02.4	305 20.6	+02.5	17
18	316 26.5	+02.5	317 25.7	+02.4	318 24.8	+02.5	319 23.9	+02.5	320 23.1	+02.4	18
19	331 29.0	+02.4	332 28.1	+02.5	333 27.3	+02.4	334 26.4	+02.5	335 25.5	+02.5	19
20	346 31.4	+02.5	347 30.6	+02.4	348 29.7	+02.5	349 28.9	+02.4	350 28.0	+02.5	20
21	1 33.9	+02.5	2 33.0	+02.5	3 32.2	+02.4	4 31.3	+02.5	5 30.5	+02.4	21
22	16 36.4	+02.4	17 35.5	+02.5	18 34.6	+02.5	19 33.8	+02.5	20 32.9	+02.5	22
23	31 38.8	+02.5	32 38.0	+02.4	33 37.1	+02.5	34 36.3	+02.4	35 35.4	+02.5	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.8	N 29 13.9	Gienah	175 44.0	S 17 40.6
Ankaa	353 07.1	S 42 10.2	Acrux	173 00.9	S 63 14.0
Schedir	349 30.8	N 56 40.6	Gacrux	171 52.4	S 57 14.8
Diphda	348 47.3	S 17 51.0	Alioth	166 13.7	N 55 49.4
Achernar	335 19.8	S 57 06.7	Spica	158 22.8	S 11 17.3
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.5	N 49 11.3
Polaris	313 39.1	N 89 22.1	Hadar	148 36.9	S 60 29.4
Acamar	315 11.4	S 40 12.2	Menkent	147 57.9	S 36 29.1
Menkar	314 06.0	N 04 11.4	Arcturus	145 48.0	N 19 04.0
Mirfak	308 28.0	N 49 57.0	Rigel Kentaurus	139 38.3	S 60 56.4
Aldebaran	290 39.5	N 16 33.7	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 21.8	N 46 01.5	Kocab	137 20.9	N 74 03.1
Rigel	281 03.8	S 08 10.2	Alphecca	126 04.3	N 26 38.0
Bellatrix	278 22.8	N 06 22.4	Antares	112 16.5	S 26 29.2
Elnath	278 01.8	N 28 37.8	Atria	107 11.3	S 69 04.4
Alnilam	275 37.6	S 01 11.0	Sabik	102 03.3	S 15 45.3
Betelgeuze	270 52.0	N 07 24.8	Shaula	96 10.9	S 37 07.3
Canopus	263 52.1	S 52 42.2	Rasalhague	95 59.0	N 12 32.7
Sirius	258 26.0	S 16 44.3	Etamin	90 42.6	N 51 29.3
Adhara	255 05.8	S 29 00.1	Kaus Australis	83 33.0	S 34 22.4
Castor	245 57.1	N 31 50.0	Vega	80 33.7	N 38 48.5
Procyon	244 50.6	N 05 10.2	Nunki	75 48.2	S 26 16.0
Pollux	243 17.0	N 27 58.0	Albireo	67 04.4	N 28 00.9
Avior	234 14.7	S 59 35.0	Altair	62 00.4	N 08 56.0
Suhail	222 46.4	S 43 31.6	Peacock	53 06.1	S 56 39.5
Miaplacidus	221 38.2	S 69 48.8	Deneb	49 26.0	N 45 22.4
Alphard	217 48.0	S 08 45.8	Enif	33 38.9	N 09 59.5
Regulus	207 34.6	N 11 50.8	Alnair	27 33.0	S 46 50.6
Dubhe	193 41.4	N 61 36.8	Formalhaut	15 14.7	S 29 29.5
Denebola	182 25.2	N 14 26.1	Markab	13 29.9	N 15 20.5

2024 - First Point of Aries / Selected Stars

UT	day 316 of 366		day 317 of 366		day 318 of 366		day 319 of 366		day 320 of 366		UT					
	November 11		November 12		November 13		November 14		November 15							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	50	37.9	+02.4	51	37.0	+02.5	52	36.1	+02.5	53	35.3	+02.4	54	34.4	+02.5	00
01	65	40.3	+02.5	66	39.5	+02.4	67	38.6	+02.5	68	37.7	+02.5	69	36.9	+02.4	01
02	80	42.8	+02.4	81	41.9	+02.5	82	41.1	+02.4	83	40.2	+02.5	84	39.3	+02.5	02
03	95	45.2	+02.5	96	44.4	+02.4	97	43.5	+02.5	98	42.7	+02.4	99	41.8	+02.5	03
04	110	47.7	+02.5	111	46.8	+02.5	112	46.0	+02.4	113	45.1	+02.5	114	44.3	+02.4	04
05	125	50.2	+02.4	126	49.3	+02.5	127	48.4	+02.5	128	47.6	+02.5	129	46.7	+02.5	05
06	140	52.6	+02.5	141	51.8	+02.4	142	50.9	+02.5	143	50.1	+02.4	144	49.2	+02.5	06
07	155	55.1	+02.5	156	54.2	+02.5	157	53.4	+02.4	158	52.5	+02.5	159	51.7	+02.4	07
08	170	57.6	+02.4	171	56.7	+02.5	172	55.8	+02.5	173	55.0	+02.4	174	54.1	+02.5	08
09	186	00.0	+02.5	186	59.2	+02.4	187	58.3	+02.5	188	57.4	+02.5	189	56.6	+02.4	09
10	201	02.5	+02.5	202	01.6	+02.5	203	00.8	+02.4	203	59.9	+02.5	204	59.0	+02.5	10
11	216	05.0	+02.4	217	04.1	+02.5	218	03.2	+02.5	219	02.4	+02.4	220	01.5	+02.5	11
12	231	07.4	+02.5	232	06.6	+02.4	233	05.7	+02.5	234	04.8	+02.5	235	04.0	+02.4	12
13	246	09.9	+02.5	247	09.0	+02.5	248	08.2	+02.4	249	07.3	+02.5	250	06.4	+02.5	13
14	261	12.4	+02.4	262	11.5	+02.5	263	10.6	+02.5	264	09.8	+02.4	265	08.9	+02.5	14
15	276	14.8	+02.5	277	14.0	+02.4	278	13.1	+02.5	279	12.2	+02.5	280	11.4	+02.4	15
16	291	17.3	+02.4	292	16.4	+02.5	293	15.6	+02.4	294	14.7	+02.5	295	13.8	+02.5	16
17	306	19.7	+02.5	307	18.9	+02.4	308	18.0	+02.5	309	17.2	+02.4	310	16.3	+02.5	17
18	321	22.2	+02.5	322	21.3	+02.5	323	20.5	+02.4	324	19.6	+02.5	325	18.8	+02.4	18
19	336	24.7	+02.4	337	23.8	+02.5	338	22.9	+02.5	339	22.1	+02.4	340	21.2	+02.5	19
20	351	27.1	+02.5	352	26.3	+02.4	353	25.4	+02.5	354	24.5	+02.5	355	23.7	+02.5	20
21	6	29.6	+02.5	7	28.7	+02.5	8	27.9	+02.4	9	27.0	+02.5	10	26.2	+02.4	21
22	21	32.1	+02.4	22	31.2	+02.5	23	30.3	+02.5	24	29.5	+02.4	25	28.6	+02.5	22
23	36	34.5	+02.5	37	33.7	+02.4	38	32.8	+02.5	39	31.9	+02.5	40	31.1	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.8	N 29 13.9	Gienah	175 43.9	S 17 40.6
Ankaa	353 07.1	S 42 10.2	Acrux	173 00.8	S 63 13.9
Schedir	349 30.8	N 56 40.7	Gacrux	171 52.3	S 57 14.8
Diphda	348 47.3	S 17 51.0	Alioth	166 13.7	N 55 49.4
Achernar	335 19.8	S 57 06.7	Spica	158 22.8	S 11 17.3
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.5	N 49 11.3
Polaris	313 38.7	N 89 22.2	Hadar	148 36.9	S 60 29.4
Acamar	315 11.4	S 40 12.2	Menkent	147 57.9	S 36 29.1
Menkar	314 06.0	N 04 11.4	Arcturus	145 48.0	N 19 04.0
Mirfak	308 28.0	N 49 57.0	Rigel Kentaurus	139 38.3	S 60 56.4
Aldebaran	290 39.5	N 16 33.7	Zubenelgenubi	136 56.5	S 16 08.6
Capella	280 21.7	N 46 01.5	Kocab	137 20.9	N 74 03.1
Rigel	281 03.7	S 08 10.2	Alphecca	126 04.3	N 26 37.9
Bellatrix	278 22.7	N 06 22.4	Antares	112 16.5	S 26 29.2
Elnath	278 01.8	N 28 37.8	Atria	107 11.3	S 69 04.4
Alnilam	275 37.6	S 01 11.0	Sabik	102 03.3	S 15 45.4
Betelgeuze	270 52.0	N 07 24.8	Shaula	96 10.9	S 37 07.3
Canopus	263 52.1	S 52 42.2	Rasalhague	95 59.0	N 12 32.7
Sirius	258 25.9	S 16 44.3	Etamin	90 42.7	N 51 29.3
Adhara	255 05.8	S 29 00.1	Kaus Australis	83 33.0	S 34 22.4
Castor	245 57.0	N 31 50.0	Vega	80 33.7	N 38 48.4
Procyon	244 50.6	N 05 10.2	Nunki	75 48.2	S 26 16.0
Pollux	243 17.0	N 27 58.0	Albireo	67 04.4	N 28 00.9
Avior	234 14.6	S 59 35.0	Altair	62 00.4	N 08 56.0
Suhail	222 46.4	S 43 31.6	Peacock	53 06.1	S 56 39.5
Miaplacidus	221 38.1	S 69 48.8	Deneb	49 26.0	N 45 22.4
Alphard	217 47.9	S 08 45.8	Enif	33 38.9	N 09 59.4
Regulus	207 34.6	N 11 50.8	Alnair	27 33.1	S 46 50.6
Dubhe	193 41.3	N 61 36.8	Formalhaut	15 14.7	S 29 29.5
Denebola	182 25.1	N 14 26.1	Markab	13 29.9	N 15 20.5

2024 - First Point of Aries / Selected Stars

UT	day 321 of 366			day 322 of 366			day 323 of 366			day 324 of 366			day 325 of 366			UT		
	November 16			November 17			November 18			November 19			November 20					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	55	33.5	+02.5	56	32.7	+02.5	57	31.8	+02.5	58	31.0	+02.4	59	30.1	+02.5	00		
01	70	36.0	+02.5	71	35.2	+02.4	72	34.3	+02.5	73	33.4	+02.5	74	32.6	+02.4	01		
02	85	38.5	+02.4	86	37.6	+02.5	87	36.8	+02.4	88	35.9	+02.5	89	35.0	+02.5	02		
03	100	40.9	+02.5	101	40.1	+02.4	102	39.2	+02.5	103	38.4	+02.4	104	37.5	+02.5	03		
04	115	43.4	+02.5	116	42.5	+02.5	117	41.7	+02.4	118	40.8	+02.5	119	40.0	+02.4	04		
05	130	45.9	+02.4	131	45.0	+02.5	132	44.1	+02.5	133	43.3	+02.5	134	42.4	+02.5	05		
06	145	48.3	+02.5	146	47.5	+02.4	147	46.6	+02.5	148	45.8	+02.4	149	44.9	+02.5	06		
07	160	50.8	+02.5	161	49.9	+02.5	162	49.1	+02.4	163	48.2	+02.5	164	47.4	+02.4	07		
08	175	53.3	+02.4	176	52.4	+02.5	177	51.5	+02.5	178	50.7	+02.4	179	49.8	+02.5	08		
09	190	55.7	+02.5	191	54.9	+02.4	192	54.0	+02.5	193	53.1	+02.5	194	52.3	+02.5	09		
10	205	58.2	+02.5	206	57.3	+02.5	207	56.5	+02.4	208	55.6	+02.5	209	54.8	+02.4	10		
11	221	00.7	+02.4	221	59.8	+02.5	222	58.9	+02.5	223	58.1	+02.4	224	57.2	+02.5	11		
12	236	03.1	+02.5	237	02.3	+02.4	238	01.4	+02.5	239	00.5	+02.5	239	59.7	+02.4	12		
13	251	05.6	+02.4	252	04.7	+02.5	253	03.9	+02.4	254	03.0	+02.5	255	02.1	+02.5	13		
14	266	08.0	+02.5	267	07.2	+02.4	268	06.3	+02.5	269	05.5	+02.4	270	04.6	+02.5	14		
15	281	10.5	+02.5	282	09.6	+02.5	283	08.8	+02.5	284	07.9	+02.5	285	07.1	+02.4	15		
16	296	13.0	+02.4	297	12.1	+02.5	298	11.3	+02.4	299	10.4	+02.5	300	09.5	+02.5	16		
17	311	15.4	+02.5	312	14.6	+02.4	313	13.7	+02.5	314	12.9	+02.4	315	12.0	+02.5	17		
18	326	17.9	+02.5	327	17.0	+02.5	328	16.2	+02.4	329	15.3	+02.5	330	14.5	+02.4	18		
19	341	20.4	+02.4	342	19.5	+02.5	343	18.6	+02.5	344	17.8	+02.5	345	16.9	+02.5	19		
20	356	22.8	+02.5	357	22.0	+02.4	358	21.1	+02.5	359	20.3	+02.4	0	19.4	+02.5	20		
21	11	25.3	+02.5	12	24.4	+02.5	13	23.6	+02.4	14	22.7	+02.5	15	21.9	+02.4	21		
22	26	27.8	+02.4	27	26.9	+02.5	28	26.0	+02.5	29	25.2	+02.4	30	24.3	+02.5	22		
23	41	30.2	+02.5	42	29.4	+02.4	43	28.5	+02.5	44	27.6	+02.5	45	26.8	+02.5	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.8	N 29	13.9	Gienah	175	43.9	S 17	40.6
Ankaa	353	07.1	S 42	10.2	Acrux	173	00.8	S 63	13.9
Schedir	349	30.9	N 56	40.7	Gacrux	171	52.3	S 57	14.8
Diphda	348	47.3	S 17	51.0	Alioth	166	13.6	N 55	49.4
Achernar	335	19.8	S 57	06.7	Spica	158	22.7	S 11	17.3
Hamal	327	51.1	N 23	35.0	Alkaid	152	52.5	N 49	11.3
Polaris	313	38.4	N 89	22.2	Hadar	148	36.8	S 60	29.4
Acamar	315	11.4	S 40	12.3	Menkent	147	57.9	S 36	29.1
Menkar	314	06.0	N 04	11.4	Arcturus	145	48.0	N 19	04.0
Mirfak	308	28.0	N 49	57.0	Rigel Kentaurus	139	38.3	S 60	56.3
Aldebaran	290	39.5	N 16	33.7	Zubenelgenubi	136	56.5	S 16	08.6
Capella	280	21.7	N 46	01.5	Kocab	137	20.9	N 74	03.1
Rigel	281	03.7	S 08	10.2	Alphecca	126	04.3	N 26	37.9
Bellatrix	278	22.7	N 06	22.4	Antares	112	16.5	S 26	29.2
Elnath	278	01.7	N 28	37.8	Atria	107	11.3	S 69	04.4
Alnilam	275	37.6	S 01	11.0	Sabik	102	03.3	S 15	45.4
Betelgeuze	270	52.0	N 07	24.8	Shaula	96	10.9	S 37	07.3
Canopus	263	52.1	S 52	42.3	Rasalhague	95	59.0	N 12	32.7
Sirius	258	25.9	S 16	44.3	Etamin	90	42.7	N 51	29.3
Adhara	255	05.7	S 29	00.1	Kaus Australis	83	33.0	S 34	22.4
Castor	245	57.0	N 31	50.0	Vega	80	33.7	N 38	48.4
Procyon	244	50.6	N 05	10.2	Nunki	75	48.2	S 26	16.0
Pollux	243	16.9	N 27	57.9	Albireo	67	04.4	N 28	00.9
Avior	234	14.6	S 59	35.0	Altair	62	00.5	N 08	56.0
Suhail	222	46.3	S 43	31.6	Peacock	53	06.2	S 56	39.5
Miaplacidus	221	38.0	S 69	48.8	Deneb	49	26.1	N 45	22.4
Alphard	217	47.9	S 08	45.8	Enif	33	39.0	N 09	59.4
Regulus	207	34.5	N 11	50.8	Alnair	27	33.1	S 46	50.6
Dubhe	193	41.3	N 61	36.8	Formalhaut	15	14.7	S 29	29.5
Denebola	182	25.1	N 14	26.1	Markab	13	30.0	N 15	20.5

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UT	day 326 of 366		day 327 of 366		day 328 of 366		day 329 of 366		day 330 of 366		UT
	<i>November 21</i>		<i>November 22</i>		<i>November 23</i>		<i>November 24</i>		<i>November 25</i>		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	
00	60	29.3 +02.4	61	28.4 +02.5	62	27.5 +02.5	63	26.7 +02.4	64	25.8 +02.5	00
01	75	31.7 +02.5	76	30.9 +02.4	77	30.0 +02.5	78	29.1 +02.5	79	28.3 +02.4	01
02	90	34.2 +02.4	91	33.3 +02.5	92	32.5 +02.4	93	31.6 +02.5	94	30.7 +02.5	02
03	105	36.6 +02.5	106	35.8 +02.4	107	34.9 +02.5	108	34.1 +02.4	109	33.2 +02.5	03
04	120	39.1 +02.5	121	38.2 +02.5	122	37.4 +02.4	123	36.5 +02.5	124	35.7 +02.4	04
05	135	41.6 +02.4	136	40.7 +02.5	137	39.8 +02.5	138	39.0 +02.5	139	38.1 +02.5	05
06	150	44.0 +02.5	151	43.2 +02.4	152	42.3 +02.5	153	41.5 +02.4	154	40.6 +02.5	06
07	165	46.5 +02.5	166	45.6 +02.5	167	44.8 +02.4	168	43.9 +02.5	169	43.1 +02.4	07
08	180	49.0 +02.4	181	48.1 +02.5	182	47.2 +02.5	183	46.4 +02.4	184	45.5 +02.5	08
09	195	51.4 +02.5	196	50.6 +02.4	197	49.7 +02.5	198	48.8 +02.5	199	48.0 +02.4	09
10	210	53.9 +02.5	211	53.0 +02.5	212	52.2 +02.4	213	51.3 +02.5	214	50.4 +02.5	10
11	225	56.4 +02.4	226	55.5 +02.5	227	54.6 +02.5	228	53.8 +02.4	229	52.9 +02.5	11
12	240	58.8 +02.5	241	58.0 +02.4	242	57.1 +02.5	243	56.2 +02.5	244	55.4 +02.4	12
13	256	01.3 +02.4	257	00.4 +02.5	257	59.6 +02.4	258	58.7 +02.5	259	57.8 +02.5	13
14	271	03.7 +02.5	272	02.9 +02.5	273	02.0 +02.5	274	01.2 +02.4	275	00.3 +02.5	14
15	286	06.2 +02.5	287	05.4 +02.4	288	04.5 +02.5	289	03.6 +02.5	290	02.8 +02.4	15
16	301	08.7 +02.4	302	07.8 +02.5	303	07.0 +02.4	304	06.1 +02.5	305	05.2 +02.5	16
17	316	11.1 +02.5	317	10.3 +02.4	318	09.4 +02.5	319	08.6 +02.4	320	07.7 +02.5	17
18	331	13.6 +02.5	332	12.7 +02.5	333	11.9 +02.4	334	11.0 +02.5	335	10.2 +02.4	18
19	346	16.1 +02.4	347	15.2 +02.5	348	14.3 +02.5	349	13.5 +02.4	350	12.6 +02.5	19
20	1	18.5 +02.5	2	17.7 +02.4	3	16.8 +02.5	4	15.9 +02.5	5	15.1 +02.5	20
21	16	21.0 +02.5	17	20.1 +02.5	18	19.3 +02.4	19	18.4 +02.5	20	17.6 +02.4	21
22	31	23.5 +02.4	32	22.6 +02.5	33	21.7 +02.5	34	20.9 +02.4	35	20.0 +02.5	22
23	46	25.9 +02.5	47	25.1 +02.4	48	24.2 +02.5	49	23.3 +02.5	50	22.5 +02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.8	N 29 13.9	Gienah	175 43.9	S 17 40.7
Ankaa	353 07.1	S 42 10.2	Acrux	173 00.7	S 63 13.9
Schedir	349 30.9	N 56 40.7	Gacrux	171 52.2	S 57 14.8
Diphda	348 47.3	S 17 51.0	Alioth	166 13.6	N 55 49.3
Achernar	335 19.8	S 57 06.7	Spica	158 22.7	S 11 17.3
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.5	N 49 11.2
Polaris	313 38.0	N 89 22.2	Hadar	148 36.8	S 60 29.4
Acamar	315 11.4	S 40 12.3	Menkent	147 57.8	S 36 29.1
Menkar	314 06.0	N 04 11.4	Arcturus	145 47.9	N 19 04.0
Mirfak	308 27.9	N 49 57.1	Rigel Kentaurus	139 38.2	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.4	S 16 08.6
Capella	280 21.7	N 46 01.5	Kocab	137 20.9	N 74 03.0
Rigel	281 03.7	S 08 10.3	Alphecca	126 04.3	N 26 37.9
Bellatrix	278 22.7	N 06 22.4	Antares	112 16.5	S 26 29.2
Elnath	278 01.7	N 28 37.8	Atria	107 11.3	S 69 04.3
Alnilam	275 37.6	S 01 11.1	Sabik	102 03.3	S 15 45.4
Betelgeuze	270 51.9	N 07 24.8	Shaula	96 10.9	S 37 07.3
Canopus	263 52.0	S 52 42.3	Rasalhague	95 59.0	N 12 32.7
Sirius	258 25.9	S 16 44.3	Etamin	90 42.7	N 51 29.2
Adhara	255 05.7	S 29 00.1	Kaus Australis	83 33.0	S 34 22.4
Castor	245 56.9	N 31 50.0	Vega	80 33.7	N 38 48.4
Procyon	244 50.5	N 05 10.1	Nunki	75 48.2	S 26 16.0
Pollux	243 16.9	N 27 57.9	Albireo	67 04.4	N 28 00.8
Avior	234 14.5	S 59 35.0	Altair	62 00.5	N 08 56.0
Suhail	222 46.3	S 43 31.7	Peacock	53 06.2	S 56 39.5
Miaplacidus	221 37.9	S 69 48.8	Deneb	49 26.1	N 45 22.4
Alphard	217 47.8	S 08 45.9	Enif	33 39.0	N 09 59.4
Regulus	207 34.5	N 11 50.8	Alnair	27 33.1	S 46 50.6
Dubhe	193 41.2	N 61 36.8	Formalhaut	15 14.7	S 29 29.5
Denebola	182 25.0	N 14 26.0	Markab	13 30.0	N 15 20.5

2024 - First Point of Aries / Selected Stars

UT	day 331 of 366		day 332 of 366		day 333 of 366		day 334 of 366		day 335 of 366		UT
	November 26		November 27		November 28		November 29		November 30		
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	
00	65	24.9 +02.5	66	24.1 +02.4	67	23.2 +02.5	68	22.4 +02.4	69	21.5 +02.5	00
01	80	27.4 +02.5	81	26.5 +02.5	82	25.7 +02.4	83	24.8 +02.5	84	24.0 +02.4	01
02	95	29.9 +02.4	96	29.0 +02.5	97	28.1 +02.5	98	27.3 +02.5	99	26.4 +02.5	02
03	110	32.3 +02.5	111	31.5 +02.4	112	30.6 +02.5	113	29.8 +02.4	114	28.9 +02.5	03
04	125	34.8 +02.5	126	33.9 +02.5	127	33.1 +02.4	128	32.2 +02.5	129	31.4 +02.4	04
05	140	37.3 +02.4	141	36.4 +02.5	142	35.5 +02.5	143	34.7 +02.4	144	33.8 +02.5	05
06	155	39.7 +02.5	156	38.9 +02.4	157	38.0 +02.5	158	37.1 +02.5	159	36.3 +02.4	06
07	170	42.2 +02.5	171	41.3 +02.5	172	40.5 +02.4	173	39.6 +02.5	174	38.7 +02.5	07
08	185	44.7 +02.4	186	43.8 +02.5	187	42.9 +02.5	188	42.1 +02.4	189	41.2 +02.5	08
09	200	47.1 +02.5	201	46.3 +02.4	202	45.4 +02.5	203	44.5 +02.5	204	43.7 +02.4	09
10	215	49.6 +02.4	216	48.7 +02.5	217	47.9 +02.4	218	47.0 +02.5	219	46.1 +02.5	10
11	230	52.0 +02.5	231	51.2 +02.5	232	50.3 +02.5	233	49.5 +02.4	234	48.6 +02.5	11
12	245	54.5 +02.5	246	53.7 +02.4	247	52.8 +02.5	248	51.9 +02.5	249	51.1 +02.4	12
13	260	57.0 +02.4	261	56.1 +02.5	262	55.3 +02.4	263	54.4 +02.5	264	53.5 +02.5	13
14	275	59.4 +02.5	276	58.6 +02.4	277	57.7 +02.5	278	56.9 +02.4	279	56.0 +02.5	14
15	291	01.9 +02.5	292	01.0 +02.5	293	00.2 +02.4	293	59.3 +02.5	294	58.5 +02.4	15
16	306	04.4 +02.4	307	03.5 +02.5	308	02.6 +02.5	309	01.8 +02.4	310	00.9 +02.5	16
17	321	06.8 +02.5	322	06.0 +02.4	323	05.1 +02.5	324	04.2 +02.5	325	03.4 +02.5	17
18	336	09.3 +02.5	337	08.4 +02.5	338	07.6 +02.4	339	06.7 +02.5	340	05.9 +02.4	18
19	351	11.8 +02.4	352	10.9 +02.5	353	10.0 +02.5	354	09.2 +02.4	355	08.3 +02.5	19
20	6	14.2 +02.5	7	13.4 +02.4	8	12.5 +02.5	9	11.6 +02.5	10	10.8 +02.4	20
21	21	16.7 +02.5	22	15.8 +02.5	23	15.0 +02.4	24	14.1 +02.5	25	13.2 +02.5	21
22	36	19.2 +02.4	37	18.3 +02.5	38	17.4 +02.5	39	16.6 +02.4	40	15.7 +02.5	22
23	51	21.6 +02.5	52	20.8 +02.4	53	19.9 +02.5	54	19.0 +02.5	55	18.2 +02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.8	N 29 13.9	Gienah	175 43.8	S 17 40.7
Ankaa	353 07.1	S 42 10.3	Acrux	173 00.6	S 63 13.9
Schedir	349 30.9	N 56 40.7	Gacrux	171 52.2	S 57 14.8
Diphda	348 47.3	S 17 51.0	Alioth	166 13.5	N 55 49.3
Achernar	335 19.8	S 57 06.7	Spica	158 22.7	S 11 17.4
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.4	N 49 11.2
Polaris	313 38.4	N 89 22.3	Hadar	148 36.8	S 60 29.4
Acamar	315 11.4	S 40 12.3	Menkent	147 57.8	S 36 29.1
Menkar	314 06.0	N 04 11.4	Arcturus	145 47.9	N 19 04.0
Mirfak	308 27.9	N 49 57.1	Rigel Kentaurus	139 38.2	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.4	S 16 08.6
Capella	280 21.6	N 46 01.5	Kocab	137 20.8	N 74 03.0
Rigel	281 03.7	S 08 10.3	Alphecca	126 04.3	N 26 37.9
Bellatrix	278 22.7	N 06 22.4	Antares	112 16.5	S 26 29.2
Elnath	278 01.7	N 28 37.8	Atria	107 11.3	S 69 04.3
Alnilam	275 37.5	S 01 11.1	Sabik	102 03.3	S 15 45.4
Betelgeuze	270 51.9	N 07 24.8	Shaula	96 10.9	S 37 07.3
Canopus	263 52.0	S 52 42.3	Rasalhague	95 59.0	N 12 32.6
Sirius	258 25.9	S 16 44.4	Etamin	90 42.7	N 51 29.2
Adhara	255 05.7	S 29 00.1	Kaus Australis	83 33.0	S 34 22.4
Castor	245 56.9	N 31 50.0	Vega	80 33.8	N 38 48.4
Procyon	244 50.5	N 05 10.1	Nunki	75 48.2	S 26 16.0
Pollux	243 16.8	N 27 57.9	Albireo	67 04.4	N 28 00.8
Avior	234 14.5	S 59 35.0	Altair	62 00.5	N 08 55.9
Suhail	222 46.2	S 43 31.7	Peacock	53 06.2	S 56 39.5
Miaplacidus	221 37.9	S 69 48.8	Deneb	49 26.1	N 45 22.4
Alphard	217 47.8	S 08 45.9	Enif	33 39.0	N 09 59.4
Regulus	207 34.4	N 11 50.7	Alnair	27 33.1	S 46 50.6
Dubhe	193 41.1	N 61 36.8	Formalhaut	15 14.7	S 29 29.5
Denebola	182 25.0	N 14 26.0	Markab	13 30.0	N 15 20.5

2024 - First Point of Aries / Selected Stars

UT	day 336 of 366			day 337 of 366			day 338 of 366			day 339 of 366			day 340 of 366			UT
	<i>December 1</i>			<i>December 2</i>			<i>December 3</i>			<i>December 4</i>			<i>December 5</i>			
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		
00	70	20.6	+02.5	71	19.8	+02.4	72	18.9	+02.5	73	18.1	+02.4	74	17.2	+02.5	00
01	85	23.1	+02.5	86	22.2	+02.5	87	21.4	+02.4	88	20.5	+02.5	89	19.7	+02.4	01
02	100	25.6	+02.4	101	24.7	+02.5	102	23.8	+02.5	103	23.0	+02.5	104	22.1	+02.5	02
03	115	28.0	+02.5	116	27.2	+02.4	117	26.3	+02.5	118	25.5	+02.4	119	24.6	+02.5	03
04	130	30.5	+02.5	131	29.6	+02.5	132	28.8	+02.4	133	27.9	+02.5	134	27.1	+02.4	04
05	145	33.0	+02.4	146	32.1	+02.5	147	31.2	+02.5	148	30.4	+02.4	149	29.5	+02.5	05
06	160	35.4	+02.5	161	34.6	+02.4	162	33.7	+02.5	163	32.8	+02.5	164	32.0	+02.5	06
07	175	37.9	+02.5	176	37.0	+02.5	177	36.2	+02.4	178	35.3	+02.5	179	34.5	+02.4	07
08	190	40.4	+02.4	191	39.5	+02.5	192	38.6	+02.5	193	37.8	+02.4	194	36.9	+02.5	08
09	205	42.8	+02.5	206	42.0	+02.4	207	41.1	+02.5	208	40.2	+02.5	209	39.4	+02.4	09
10	220	45.3	+02.4	221	44.4	+02.5	222	43.6	+02.4	223	42.7	+02.5	224	41.8	+02.5	10
11	235	47.7	+02.5	236	46.9	+02.4	237	46.0	+02.5	238	45.2	+02.4	239	44.3	+02.5	11
12	250	50.2	+02.5	251	49.3	+02.5	252	48.5	+02.5	253	47.6	+02.5	254	46.8	+02.4	12
13	265	52.7	+02.4	266	51.8	+02.5	267	51.0	+02.4	268	50.1	+02.5	269	49.2	+02.5	13
14	280	55.1	+02.5	281	54.3	+02.4	282	53.4	+02.5	283	52.6	+02.4	284	51.7	+02.5	14
15	295	57.6	+02.5	296	56.7	+02.5	297	55.9	+02.4	298	55.0	+02.5	299	54.2	+02.4	15
16	311	00.1	+02.4	311	59.2	+02.5	312	58.3	+02.5	313	57.5	+02.5	314	56.6	+02.5	16
17	326	02.5	+02.5	327	01.7	+02.4	328	00.8	+02.5	328	60.0	+02.4	329	59.1	+02.5	17
18	341	05.0	+02.5	342	04.1	+02.5	343	03.3	+02.4	344	02.4	+02.5	345	01.6	+02.4	18
19	356	07.5	+02.4	357	06.6	+02.5	358	05.7	+02.5	359	04.9	+02.4	0	04.0	+02.5	19
20	11	09.9	+02.5	12	09.1	+02.4	13	08.2	+02.5	14	07.3	+02.5	15	06.5	+02.5	20
21	26	12.4	+02.5	27	11.5	+02.5	28	10.7	+02.4	29	09.8	+02.5	30	09.0	+02.4	21
22	41	14.9	+02.4	42	14.0	+02.5	43	13.1	+02.5	44	12.3	+02.4	45	11.4	+02.5	22
23	56	17.3	+02.5	57	16.5	+02.4	58	15.6	+02.5	59	14.7	+02.5	60	13.9	+02.4	23

	SHA	Dec		SHA	Dec
	° ,	° ,		° ,	° ,
Alpheratz	357 34.8	N 29 13.9	Gienah	175 43.8	S 17 40.7
Ankaa	353 07.2	S 42 10.3	Acrux	173 00.6	S 63 13.9
Schedir	349 30.9	N 56 40.7	Gacrux	171 52.1	S 57 14.8
Diphda	348 47.3	S 17 51.1	Alioth	166 13.5	N 55 49.3
Achernar	335 19.9	S 57 06.8	Spica	158 22.6	S 11 17.4
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.4	N 49 11.2
Polaris	313 38.6	N 89 22.3	Hadar	148 36.7	S 60 29.4
Acamar	315 11.4	S 40 12.3	Menkent	147 57.8	S 36 29.1
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.9	N 19 03.9
Mirfak	308 27.9	N 49 57.1	Rigel Kentaurus	139 38.2	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.4	S 16 08.6
Capella	280 21.6	N 46 01.5	Kocab	137 20.8	N 74 03.0
Rigel	281 03.6	S 08 10.3	Alphecca	126 04.2	N 26 37.9
Bellatrix	278 22.6	N 06 22.4	Antares	112 16.5	S 26 29.2
Elnath	278 01.6	N 28 37.8	Atria	107 11.3	S 69 04.3
Alnilam	275 37.5	S 01 11.1	Sabik	102 03.3	S 15 45.4
Betelgeuze	270 51.9	N 07 24.8	Shaula	96 10.9	S 37 07.3
Canopus	263 52.0	S 52 42.3	Rasalhague	95 59.0	N 12 32.6
Sirius	258 25.8	S 16 44.4	Etamin	90 42.7	N 51 29.2
Adhara	255 05.6	S 29 00.2	Kaus Australis	83 33.0	S 34 22.4
Castor	245 56.8	N 31 50.0	Vega	80 33.8	N 38 48.4
Procyon	244 50.5	N 05 10.1	Nunki	75 48.2	S 26 16.0
Pollux	243 16.8	N 27 57.9	Albireo	67 04.4	N 28 00.8
Avior	234 14.4	S 59 35.1	Altair	62 00.5	N 08 55.9
Suhail	222 46.2	S 43 31.7	Peacock	53 06.2	S 56 39.5
Miaplacidus	221 37.8	S 69 48.8	Deneb	49 26.1	N 45 22.3
Alphard	217 47.8	S 08 45.9	Enif	33 39.0	N 09 59.4
Regulus	207 34.4	N 11 50.7	Alnair	27 33.2	S 46 50.6
Dubhe	193 41.1	N 61 36.7	Formalhaut	15 14.7	S 29 29.5
Denebola	182 25.0	N 14 26.0	Markab	13 30.0	N 15 20.5

2024 - First Point of Aries / Selected Stars

UT	day 341 of 366		day 342 of 366		day 343 of 366		day 344 of 366		day 345 of 366		UT					
	<i>December 6</i>		<i>December 7</i>		<i>December 8</i>		<i>December 9</i>		<i>December 10</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	75	16.3	+02.5	76	15.5	+02.4	77	14.6	+02.5	78	13.8	+02.4	79	12.9	+02.5	00
01	90	18.8	+02.5	91	17.9	+02.5	92	17.1	+02.4	93	16.2	+02.5	94	15.4	+02.4	01
02	105	21.3	+02.4	106	20.4	+02.5	107	19.5	+02.5	108	18.7	+02.5	109	17.8	+02.5	02
03	120	23.7	+02.5	121	22.9	+02.4	122	22.0	+02.5	123	21.2	+02.4	124	20.3	+02.5	03
04	135	26.2	+02.5	136	25.3	+02.5	137	24.5	+02.4	138	23.6	+02.5	139	22.8	+02.4	04
05	150	28.7	+02.4	151	27.8	+02.5	152	26.9	+02.5	153	26.1	+02.4	154	25.2	+02.5	05
06	165	31.1	+02.5	166	30.3	+02.4	167	29.4	+02.5	168	28.5	+02.5	169	27.7	+02.4	06
07	180	33.6	+02.5	181	32.7	+02.5	182	31.9	+02.4	183	31.0	+02.5	184	30.1	+02.5	07
08	195	36.1	+02.4	196	35.2	+02.5	197	34.3	+02.5	198	33.5	+02.4	199	32.6	+02.5	08
09	210	38.5	+02.5	211	37.7	+02.4	212	36.8	+02.5	213	35.9	+02.5	214	35.1	+02.4	09
10	225	41.0	+02.4	226	40.1	+02.5	227	39.3	+02.4	228	38.4	+02.5	229	37.5	+02.5	10
11	240	43.4	+02.5	241	42.6	+02.5	242	41.7	+02.5	243	40.9	+02.4	244	40.0	+02.5	11
12	255	45.9	+02.5	256	45.1	+02.4	257	44.2	+02.5	258	43.3	+02.5	259	42.5	+02.4	12
13	270	48.4	+02.4	271	47.5	+02.5	272	46.7	+02.4	273	45.8	+02.5	274	44.9	+02.5	13
14	285	50.8	+02.5	286	50.0	+02.4	287	49.1	+02.5	288	48.3	+02.4	289	47.4	+02.5	14
15	300	53.3	+02.5	301	52.4	+02.5	302	51.6	+02.4	303	50.7	+02.5	304	49.9	+02.4	15
16	315	55.8	+02.4	316	54.9	+02.5	317	54.0	+02.5	318	53.2	+02.4	319	52.3	+02.5	16
17	330	58.2	+02.5	331	57.4	+02.4	332	56.5	+02.5	333	55.6	+02.5	334	54.8	+02.5	17
18	346	00.7	+02.5	346	59.8	+02.5	347	59.0	+02.4	348	58.1	+02.5	349	57.3	+02.4	18
19	1	03.2	+02.4	2	02.3	+02.5	3	01.4	+02.5	4	00.6	+02.4	4	59.7	+02.5	19
20	16	05.6	+02.5	17	04.8	+02.4	18	03.9	+02.5	19	03.0	+02.5	20	02.2	+02.4	20
21	31	08.1	+02.5	32	07.2	+02.5	33	06.4	+02.4	34	05.5	+02.5	35	04.6	+02.5	21
22	46	10.6	+02.4	47	09.7	+02.5	48	08.8	+02.5	49	08.0	+02.4	50	07.1	+02.5	22
23	61	13.0	+02.5	62	12.2	+02.4	63	11.3	+02.5	64	10.4	+02.5	65	09.6	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.8	N 29	13.9	Gienah	175	43.7	S 17	40.7
Ankaa	353	07.2	S 42	10.3	Acrux	173	00.5	S 63	13.9
Schedir	349	30.9	N 56	40.7	Gacrux	171	52.1	S 57	14.8
Diphda	348	47.3	S 17	51.1	Alioth	166	13.4	N 55	49.2
Achernar	335	19.9	S 57	06.8	Spica	158	22.6	S 11	17.4
Hamal	327	51.1	N 23	35.0	Alkaid	152	52.3	N 49	11.2
Polaris	313	39.0	N 89	22.3	Hadar	148	36.6	S 60	29.3
Acamar	315	11.4	S 40	12.4	Menkent	147	57.7	S 36	29.1
Menkar	314	05.9	N 04	11.3	Arcturus	145	47.8	N 19	03.9
Mirfak	308	27.9	N 49	57.1	Rigel Kentaurus	139	38.1	S 60	56.3
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	56.4	S 16	08.6
Capella	280	21.6	N 46	01.6	Kocab	137	20.8	N 74	02.9
Rigel	281	03.6	S 08	10.3	Alphecca	126	04.2	N 26	37.8
Bellatrix	278	22.6	N 06	22.4	Antares	112	16.4	S 26	29.2
Elnath	278	01.6	N 28	37.8	Atria	107	11.2	S 69	04.3
Alnilam	275	37.5	S 01	11.1	Sabik	102	03.3	S 15	45.4
Betelgeuze	270	51.9	N 07	24.7	Shaula	96	10.9	S 37	07.3
Canopus	263	51.9	S 52	42.4	Rasalhague	95	59.0	N 12	32.6
Sirius	258	25.8	S 16	44.4	Etamin	90	42.8	N 51	29.2
Adhara	255	05.6	S 29	00.2	Kaus Australis	83	33.0	S 34	22.4
Castor	245	56.8	N 31	50.0	Vega	80	33.8	N 38	48.3
Procyon	244	50.4	N 05	10.1	Nunki	75	48.2	S 26	16.0
Pollux	243	16.8	N 27	57.9	Albireo	67	04.4	N 28	00.8
Avior	234	14.4	S 59	35.1	Altair	62	00.5	N 08	55.9
Suhail	222	46.1	S 43	31.7	Peacock	53	06.2	S 56	39.5
Miaplacidus	221	37.7	S 69	48.9	Deneb	49	26.2	N 45	22.3
Alphard	217	47.7	S 08	45.9	Enif	33	39.0	N 09	59.4
Regulus	207	34.3	N 11	50.7	Alnair	27	33.2	S 46	50.6
Dubhe	193	41.0	N 61	36.7	Formalhaut	15	14.8	S 29	29.5
Denebola	182	24.9	N 14	26.0	Markab	13	30.0	N 15	20.5

2024 - First Point of Aries / Selected Stars

UT	day 346 of 366		day 347 of 366		day 348 of 366		day 349 of 366		day 350 of 366		UT					
	<i>December 11</i>		<i>December 12</i>		<i>December 13</i>		<i>December 14</i>		<i>December 15</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "	° ' "	' "						
00	80	12.0	+02.5	81	11.2	+02.4	82	10.3	+02.5	83	09.5	+02.4	84	08.6	+02.5	00
01	95	14.5	+02.5	96	13.6	+02.5	97	12.8	+02.4	98	11.9	+02.5	99	11.1	+02.4	01
02	110	17.0	+02.4	111	16.1	+02.5	112	15.2	+02.5	113	14.4	+02.4	114	13.5	+02.5	02
03	125	19.4	+02.5	126	18.6	+02.4	127	17.7	+02.5	128	16.8	+02.5	129	16.0	+02.5	03
04	140	21.9	+02.5	141	21.0	+02.5	142	20.2	+02.4	143	19.3	+02.5	144	18.5	+02.4	04
05	155	24.4	+02.4	156	23.5	+02.5	157	22.6	+02.5	158	21.8	+02.4	159	20.9	+02.5	05
06	170	26.8	+02.5	171	26.0	+02.4	172	25.1	+02.5	173	24.2	+02.5	174	23.4	+02.4	06
07	185	29.3	+02.4	186	28.4	+02.5	187	27.6	+02.4	188	26.7	+02.5	189	25.8	+02.5	07
08	200	31.7	+02.5	201	30.9	+02.5	202	30.0	+02.5	203	29.2	+02.4	204	28.3	+02.5	08
09	215	34.2	+02.5	216	33.4	+02.4	217	32.5	+02.5	218	31.6	+02.5	219	30.8	+02.4	09
10	230	36.7	+02.4	231	35.8	+02.5	232	35.0	+02.4	233	34.1	+02.5	234	33.2	+02.5	10
11	245	39.1	+02.5	246	38.3	+02.4	247	37.4	+02.5	248	36.6	+02.4	249	35.7	+02.5	11
12	260	41.6	+02.5	261	40.7	+02.5	262	39.9	+02.4	263	39.0	+02.5	264	38.2	+02.4	12
13	275	44.1	+02.4	276	43.2	+02.5	277	42.3	+02.5	278	41.5	+02.5	279	40.6	+02.5	13
14	290	46.5	+02.5	291	45.7	+02.4	292	44.8	+02.5	293	44.0	+02.4	294	43.1	+02.5	14
15	305	49.0	+02.5	306	48.1	+02.5	307	47.3	+02.4	308	46.4	+02.5	309	45.6	+02.4	15
16	320	51.5	+02.4	321	50.6	+02.5	322	49.7	+02.5	323	48.9	+02.4	324	48.0	+02.5	16
17	335	53.9	+02.5	336	53.1	+02.4	337	52.2	+02.5	338	51.3	+02.5	339	50.5	+02.5	17
18	350	56.4	+02.5	351	55.5	+02.5	352	54.7	+02.4	353	53.8	+02.5	354	53.0	+02.4	18
19	5	58.9	+02.4	6	58.0	+02.5	7	57.1	+02.5	8	56.3	+02.4	9	55.4	+02.5	19
20	21	01.3	+02.5	22	00.5	+02.4	22	59.6	+02.5	23	58.7	+02.5	24	57.9	+02.4	20
21	36	03.8	+02.4	37	02.9	+02.5	38	02.1	+02.4	39	01.2	+02.5	40	00.3	+02.5	21
22	51	06.2	+02.5	52	05.4	+02.5	53	04.5	+02.5	54	03.7	+02.4	55	02.8	+02.5	22
23	66	08.7	+02.5	67	07.9	+02.4	68	07.0	+02.5	69	06.1	+02.5	70	05.3	+02.4	23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.8	N 29 13.9	Gienah	175 43.7	S 17 40.7
Ankaa	353 07.2	S 42 10.3	Acrux	173 00.4	S 63 13.9
Schedir	349 31.0	N 56 40.7	Gacrux	171 52.0	S 57 14.8
Diphda	348 47.3	S 17 51.1	Alioth	166 13.4	N 55 49.2
Achernar	335 19.9	S 57 06.8	Spica	158 22.6	S 11 17.4
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.3	N 49 11.1
Polaris	313 40.1	N 89 22.3	Hadar	148 36.6	S 60 29.3
Acamar	315 11.4	S 40 12.4	Menkent	147 57.7	S 36 29.1
Menkar	314 05.9	N 04 11.3	Arcturus	145 47.8	N 19 03.9
Mirfak	308 27.9	N 49 57.1	Rigel Kentaurus	139 38.0	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.3	S 16 08.6
Capella	280 21.6	N 46 01.6	Kocab	137 20.7	N 74 02.9
Rigel	281 03.6	S 08 10.3	Alphecca	126 04.2	N 26 37.8
Bellatrix	278 22.6	N 06 22.4	Antares	112 16.4	S 26 29.2
Elnath	278 01.6	N 28 37.8	Atria	107 11.2	S 69 04.3
Alnilam	275 37.5	S 01 11.1	Sabik	102 03.2	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.9	S 37 07.3
Canopus	263 51.9	S 52 42.4	Rasalhague	95 59.0	N 12 32.6
Sirius	258 25.8	S 16 44.4	Etamin	90 42.8	N 51 29.1
Adhara	255 05.6	S 29 00.2	Kaus Australis	83 33.0	S 34 22.3
Castor	245 56.8	N 31 50.0	Vega	80 33.8	N 38 48.3
Procyon	244 50.4	N 05 10.1	Nunki	75 48.2	S 26 16.0
Pollux	243 16.7	N 27 57.9	Albireo	67 04.5	N 28 00.8
Avior	234 14.3	S 59 35.1	Altair	62 00.5	N 08 55.9
Suhail	222 46.1	S 43 31.7	Peacock	53 06.3	S 56 39.4
Miaplacidus	221 37.6	S 69 48.9	Deneb	49 26.2	N 45 22.3
Alphard	217 47.7	S 08 45.9	Enif	33 39.0	N 09 59.4
Regulus	207 34.3	N 11 50.7	Alnair	27 33.2	S 46 50.6
Dubhe	193 40.9	N 61 36.7	Formalhaut	15 14.8	S 29 29.5
Denebola	182 24.9	N 14 26.0	Markab	13 30.0	N 15 20.5

2024 - First Point of Aries / Selected Stars

UT	day 351 of 366		day 352 of 366		day 353 of 366		day 354 of 366		day 355 of 366		UT					
	<i>December 16</i>		<i>December 17</i>		<i>December 18</i>		<i>December 19</i>		<i>December 20</i>							
	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA	GHA	ddGHA						
	°	'	°	'	°	'	°	'	°	'						
00	85	07.7	+02.5	86	06.9	+02.4	87	06.0	+02.5	88	05.2	+02.4	89	04.3	+02.5	00
01	100	10.2	+02.5	101	09.3	+02.5	102	08.5	+02.5	103	07.6	+02.5	104	06.8	+02.4	01
02	115	12.7	+02.4	116	11.8	+02.5	117	11.0	+02.4	118	10.1	+02.5	119	09.2	+02.5	02
03	130	15.1	+02.5	131	14.3	+02.4	132	13.4	+02.5	133	12.6	+02.4	134	11.7	+02.5	03
04	145	17.6	+02.5	146	16.7	+02.5	147	15.9	+02.4	148	15.0	+02.5	149	14.2	+02.4	04
05	160	20.1	+02.4	161	19.2	+02.5	162	18.3	+02.5	163	17.5	+02.4	164	16.6	+02.5	05
06	175	22.5	+02.5	176	21.7	+02.4	177	20.8	+02.5	178	19.9	+02.5	179	19.1	+02.5	06
07	190	25.0	+02.5	191	24.1	+02.5	192	23.3	+02.4	193	22.4	+02.5	194	21.6	+02.4	07
08	205	27.5	+02.4	206	26.6	+02.5	207	25.7	+02.5	208	24.9	+02.4	209	24.0	+02.5	08
09	220	29.9	+02.5	221	29.1	+02.4	222	28.2	+02.5	223	27.3	+02.5	224	26.5	+02.4	09
10	235	32.4	+02.4	236	31.5	+02.5	237	30.7	+02.4	238	29.8	+02.5	239	28.9	+02.5	10
11	250	34.8	+02.5	251	34.0	+02.5	252	33.1	+02.5	253	32.3	+02.4	254	31.4	+02.5	11
12	265	37.3	+02.5	266	36.5	+02.4	267	35.6	+02.5	268	34.7	+02.5	269	33.9	+02.4	12
13	280	39.8	+02.4	281	38.9	+02.5	282	38.1	+02.4	283	37.2	+02.5	284	36.3	+02.5	13
14	295	42.2	+02.5	296	41.4	+02.4	297	40.5	+02.5	298	39.7	+02.4	299	38.8	+02.5	14
15	310	44.7	+02.5	311	43.8	+02.5	312	43.0	+02.4	313	42.1	+02.5	314	41.3	+02.4	15
16	325	47.2	+02.4	326	46.3	+02.5	327	45.4	+02.5	328	44.6	+02.5	329	43.7	+02.5	16
17	340	49.6	+02.5	341	48.8	+02.4	342	47.9	+02.5	343	47.1	+02.4	344	46.2	+02.5	17
18	355	52.1	+02.5	356	51.2	+02.5	357	50.4	+02.4	358	49.5	+02.5	359	48.7	+02.4	18
19	10	54.6	+02.4	11	53.7	+02.5	12	52.8	+02.5	13	52.0	+02.4	14	51.1	+02.5	19
20	25	57.0	+02.5	26	56.2	+02.4	27	55.3	+02.5	28	54.4	+02.5	29	53.6	+02.4	20
21	40	59.5	+02.5	41	58.6	+02.5	42	57.8	+02.4	43	56.9	+02.5	44	56.0	+02.5	21
22	56	02.0	+02.4	57	01.1	+02.5	58	00.2	+02.5	58	59.4	+02.4	59	58.5	+02.5	22
23	71	04.4	+02.5	72	03.6	+02.4	73	02.7	+02.5	74	01.8	+02.5	75	01.0	+02.4	23

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.9	N 29	13.9	Gienah	175	43.7	S 17	40.7
Ankaa	353	07.2	S 42	10.3	Acrux	173	00.3	S 63	13.9
Schedir	349	31.0	N 56	40.7	Gacrux	171	51.9	S 57	14.8
Diphda	348	47.3	S 17	51.1	Alioth	166	13.3	N 55	49.2
Achernar	335	20.0	S 57	06.8	Spica	158	22.5	S 11	17.4
Hamal	327	51.1	N 23	35.0	Alkaid	152	52.3	N 49	11.1
Polaris	313	40.7	N 89	22.4	Hadar	148	36.5	S 60	29.3
Acamar	315	11.4	S 40	12.4	Menkent	147	57.6	S 36	29.1
Menkar	314	05.9	N 04	11.3	Arcturus	145	47.8	N 19	03.9
Mirfak	308	27.9	N 49	57.1	Rigel Kentaurus	139	38.0	S 60	56.3
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	21.5	N 46	01.6	Kocab	137	20.6	N 74	02.9
Rigel	281	03.6	S 08	10.3	Alphecca	126	04.2	N 26	37.8
Bellatrix	278	22.6	N 06	22.4	Antares	112	16.4	S 26	29.2
Elnath	278	01.6	N 28	37.8	Atria	107	11.2	S 69	04.2
Alnilam	275	37.5	S 01	11.1	Sabik	102	03.2	S 15	45.4
Betelgeuze	270	51.8	N 07	24.7	Shaula	96	10.9	S 37	07.3
Canopus	263	51.9	S 52	42.4	Rasalhague	95	59.0	N 12	32.6
Sirius	258	25.7	S 16	44.4	Etamin	90	42.8	N 51	29.1
Adhara	255	05.5	S 29	00.2	Kaus Australis	83	33.0	S 34	22.3
Castor	245	56.7	N 31	50.0	Vega	80	33.8	N 38	48.3
Procyon	244	50.4	N 05	10.1	Nunki	75	48.2	S 26	16.0
Pollux	243	16.7	N 27	57.9	Albireo	67	04.5	N 28	00.8
Avior	234	14.3	S 59	35.1	Altair	62	00.5	N 08	55.9
Suhail	222	46.1	S 43	31.8	Peacock	53	06.3	S 56	39.4
Miaplacidus	221	37.5	S 69	48.9	Deneb	49	26.2	N 45	22.3
Alphard	217	47.6	S 08	45.9	Enif	33	39.0	N 09	59.4
Regulus	207	34.3	N 11	50.7	Alnair	27	33.2	S 46	50.6
Dubhe	193	40.8	N 61	36.7	Formalhaut	15	14.8	S 29	29.5
Denebola	182	24.8	N 14	25.9	Markab	13	30.0	N 15	20.5

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UT	day 356 of 366			day 357 of 366			day 358 of 366			day 359 of 366			day 360 of 366			UT		
	<i>December 21</i>			<i>December 22</i>			<i>December 23</i>			<i>December 24</i>			<i>December 25</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	90	03.4	+02.5	91	02.6	+02.4	92	01.7	+02.5	93	00.9	+02.4	93	60.0	+02.5	00		
01	105	05.9	+02.5	106	05.0	+02.5	107	04.2	+02.4	108	03.3	+02.5	109	02.5	+02.4	01		
02	120	08.4	+02.4	121	07.5	+02.5	122	06.6	+02.5	123	05.8	+02.4	124	04.9	+02.5	02		
03	135	10.8	+02.5	136	10.0	+02.4	137	09.1	+02.5	138	08.2	+02.5	139	07.4	+02.4	03		
04	150	13.3	+02.5	151	12.4	+02.5	152	11.6	+02.4	153	10.7	+02.5	154	09.8	+02.5	04		
05	165	15.8	+02.4	166	14.9	+02.5	167	14.0	+02.5	168	13.2	+02.4	169	12.3	+02.5	05		
06	180	18.2	+02.5	181	17.4	+02.4	182	16.5	+02.5	183	15.6	+02.5	184	14.8	+02.4	06		
07	195	20.7	+02.5	196	19.8	+02.5	197	19.0	+02.4	198	18.1	+02.5	199	17.2	+02.5	07		
08	210	23.2	+02.4	211	22.3	+02.5	212	21.4	+02.5	213	20.6	+02.4	214	19.7	+02.5	08		
09	225	25.6	+02.5	226	24.8	+02.4	227	23.9	+02.5	228	23.0	+02.5	229	22.2	+02.4	09		
10	240	28.1	+02.4	241	27.2	+02.5	242	26.4	+02.4	243	25.5	+02.5	244	24.6	+02.5	10		
11	255	30.5	+02.5	256	29.7	+02.4	257	28.8	+02.5	258	28.0	+02.4	259	27.1	+02.5	11		
12	270	33.0	+02.5	271	32.1	+02.5	272	31.3	+02.4	273	30.4	+02.5	274	29.6	+02.4	12		
13	285	35.5	+02.4	286	34.6	+02.5	287	33.7	+02.5	288	32.9	+02.5	289	32.0	+02.5	13		
14	300	37.9	+02.5	301	37.1	+02.4	302	36.2	+02.5	303	35.4	+02.4	304	34.5	+02.5	14		
15	315	40.4	+02.5	316	39.5	+02.5	317	38.7	+02.4	318	37.8	+02.5	319	37.0	+02.4	15		
16	330	42.9	+02.4	331	42.0	+02.5	332	41.1	+02.5	333	40.3	+02.4	334	39.4	+02.5	16		
17	345	45.3	+02.5	346	44.5	+02.4	347	43.6	+02.5	348	42.7	+02.5	349	41.9	+02.4	17		
18	0	47.8	+02.5	1	46.9	+02.5	2	46.1	+02.4	3	45.2	+02.5	4	44.3	+02.5	18		
19	15	50.3	+02.4	16	49.4	+02.5	17	48.5	+02.5	18	47.7	+02.4	19	46.8	+02.5	19		
20	30	52.7	+02.5	31	51.9	+02.4	32	51.0	+02.5	33	50.1	+02.5	34	49.3	+02.4	20		
21	45	55.2	+02.5	46	54.3	+02.5	47	53.5	+02.4	48	52.6	+02.5	49	51.7	+02.5	21		
22	60	57.7	+02.4	61	56.8	+02.5	62	55.9	+02.5	63	55.1	+02.4	64	54.2	+02.5	22		
23	76	00.1	+02.5	76	59.3	+02.4	77	58.4	+02.5	78	57.5	+02.5	79	56.7	+02.4	23		

	SHA		Dec			SHA		Dec	
	°	'	°	'		°	'	°	'
Alpheratz	357	34.9	N 29	13.9	Gienah	175	43.6	S 17	40.7
Ankaa	353	07.2	S 42	10.3	Acrux	173	00.3	S 63	13.9
Schedir	349	31.0	N 56	40.8	Gacrux	171	51.9	S 57	14.8
Diphda	348	47.4	S 17	51.1	Alioth	166	13.2	N 55	49.2
Achernar	335	20.0	S 57	06.8	Spica	158	22.5	S 11	17.4
Hamal	327	51.1	N 23	35.0	Alkaid	152	52.2	N 49	11.1
Polaris	313	42.0	N 89	22.4	Hadar	148	36.4	S 60	29.3
Acamar	315	11.4	S 40	12.4	Menkent	147	57.6	S 36	29.1
Menkar	314	05.9	N 04	11.3	Arcturus	145	47.7	N 19	03.8
Mirfak	308	27.9	N 49	57.2	Rigel Kentaurus	139	37.9	S 60	56.3
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	56.3	S 16	08.6
Capella	280	21.5	N 46	01.6	Kocab	137	20.6	N 74	02.9
Rigel	281	03.6	S 08	10.3	Alphecca	126	04.1	N 26	37.7
Bellatrix	278	22.6	N 06	22.4	Antares	112	16.4	S 26	29.2
Elnath	278	01.5	N 28	37.8	Atria	107	11.1	S 69	04.2
Alnilam	275	37.4	S 01	11.1	Sabik	102	03.2	S 15	45.4
Betelgeuze	270	51.8	N 07	24.7	Shaula	96	10.9	S 37	07.3
Canopus	263	51.9	S 52	42.4	Rasalhague	95	59.0	N 12	32.6
Sirius	258	25.7	S 16	44.5	Etamin	90	42.7	N 51	29.1
Adhara	255	05.5	S 29	00.3	Kaus Australis	83	33.0	S 34	22.3
Castor	245	56.7	N 31	50.0	Vega	80	33.8	N 38	48.3
Procyon	244	50.3	N 05	10.1	Nunki	75	48.2	S 26	16.0
Pollux	243	16.6	N 27	57.9	Albireo	67	04.5	N 28	00.7
Avior	234	14.2	S 59	35.2	Altair	62	00.5	N 08	55.9
Suhail	222	46.0	S 43	31.8	Peacock	53	06.3	S 56	39.4
Miaplacidus	221	37.5	S 69	48.9	Deneb	49	26.2	N 45	22.3
Alphard	217	47.6	S 08	46.0	Enif	33	39.0	N 09	59.4
Regulus	207	34.2	N 11	50.7	Alnair	27	33.3	S 46	50.6
Dubhe	193	40.8	N 61	36.7	Formalhaut	15	14.8	S 29	29.5
Denebola	182	24.8	N 14	25.9	Markab	13	30.1	N 15	20.5

2024 - First Point of Aries / Selected Stars

UT	day 361 of 366			day 362 of 366			day 363 of 366			day 364 of 366			day 365 of 366			UT		
	<i>December 26</i>			<i>December 27</i>			<i>December 28</i>			<i>December 29</i>			<i>December 30</i>					
	GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA		GHA	ddGHA				
	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"
00	94	59.1	+02.5	95	58.3	+02.4	96	57.4	+02.5	97	56.6	+02.4	98	55.7	+02.5	00		
01	110	01.6	+02.5	111	00.7	+02.5	111	59.9	+02.4	112	59.0	+02.5	113	58.2	+02.4	01		
02	125	04.1	+02.4	126	03.2	+02.5	127	02.3	+02.5	128	01.5	+02.4	129	00.6	+02.5	02		
03	140	06.5	+02.5	141	05.7	+02.4	142	04.8	+02.5	143	03.9	+02.5	144	03.1	+02.5	03		
04	155	09.0	+02.5	156	08.1	+02.5	157	07.3	+02.4	158	06.4	+02.5	159	05.6	+02.4	04		
05	170	11.5	+02.4	171	10.6	+02.5	172	09.7	+02.5	173	08.9	+02.4	174	08.0	+02.5	05		
06	185	13.9	+02.5	186	13.1	+02.4	187	12.2	+02.5	188	11.3	+02.5	189	10.5	+02.4	06		
07	200	16.4	+02.4	201	15.5	+02.5	202	14.7	+02.4	203	13.8	+02.5	204	12.9	+02.5	07		
08	215	18.8	+02.5	216	18.0	+02.4	217	17.1	+02.5	218	16.3	+02.4	219	15.4	+02.5	08		
09	230	21.3	+02.5	231	20.4	+02.5	232	19.6	+02.5	233	18.7	+02.5	234	17.9	+02.4	09		
10	245	23.8	+02.4	246	22.9	+02.5	247	22.1	+02.4	248	21.2	+02.5	249	20.3	+02.5	10		
11	260	26.2	+02.5	261	25.4	+02.4	262	24.5	+02.5	263	23.7	+02.4	264	22.8	+02.5	11		
12	275	28.7	+02.5	276	27.8	+02.5	277	27.0	+02.4	278	26.1	+02.5	279	25.3	+02.4	12		
13	290	31.2	+02.4	291	30.3	+02.5	292	29.4	+02.5	293	28.6	+02.5	294	27.7	+02.5	13		
14	305	33.6	+02.5	306	32.8	+02.4	307	31.9	+02.5	308	31.1	+02.4	309	30.2	+02.5	14		
15	320	36.1	+02.5	321	35.2	+02.5	322	34.4	+02.4	323	33.5	+02.5	324	32.7	+02.4	15		
16	335	38.6	+02.4	336	37.7	+02.5	337	36.8	+02.5	338	36.0	+02.4	339	35.1	+02.5	16		
17	350	41.0	+02.5	351	40.2	+02.4	352	39.3	+02.5	353	38.4	+02.5	354	37.6	+02.5	17		
18	5	43.5	+02.5	6	42.6	+02.5	7	41.8	+02.4	8	40.9	+02.5	9	40.1	+02.4	18		
19	20	46.0	+02.4	21	45.1	+02.5	22	44.2	+02.5	23	43.4	+02.4	24	42.5	+02.5	19		
20	35	48.4	+02.5	36	47.6	+02.4	37	46.7	+02.5	38	45.8	+02.5	39	45.0	+02.4	20		
21	50	50.9	+02.4	51	50.0	+02.5	52	49.2	+02.4	53	48.3	+02.5	54	47.4	+02.5	21		
22	65	53.3	+02.5	66	52.5	+02.4	67	51.6	+02.5	68	50.8	+02.4	69	49.9	+02.5	22		
23	80	55.8	+02.5	81	54.9	+02.5	82	54.1	+02.5	83	53.2	+02.5	84	52.4	+02.4	23		

	SHA	Dec		SHA	Dec				
	°	'		°	'				
Alpheratz	357	34.9	N 29	13.9	Gienah	175	43.6	S 17	40.8
Ankaa	353	07.3	S 42	10.3	Acrux	173	00.2	S 63	13.9
Schedir	349	31.1	N 56	40.8	Gacrux	171	51.8	S 57	14.8
Diphda	348	47.4	S 17	51.1	Alioth	166	13.2	N 55	49.2
Achernar	335	20.0	S 57	06.8	Spica	158	22.4	S 11	17.4
Hamal	327	51.1	N 23	35.0	Alkaid	152	52.2	N 49	11.1
Polaris	313	43.6	N 89	22.4	Hadar	148	36.4	S 60	29.3
Acamar	315	11.5	S 40	12.4	Menkent	147	57.5	S 36	29.1
Menkar	314	06.0	N 04	11.3	Arcturus	145	47.7	N 19	03.8
Mirfak	308	27.9	N 49	57.2	Rigel Kentaurus	139	37.8	S 60	56.3
Aldebaran	290	39.4	N 16	33.7	Zubenelgenubi	136	56.2	S 16	08.6
Capella	280	21.5	N 46	01.6	Kocab	137	20.5	N 74	02.8
Rigel	281	03.6	S 08	10.4	Alphecca	126	04.1	N 26	37.7
Bellatrix	278	22.6	N 06	22.4	Antares	112	16.3	S 26	29.2
Elnath	278	01.5	N 28	37.8	Atria	107	11.1	S 69	04.2
Alnilam	275	37.4	S 01	11.1	Sabik	102	03.2	S 15	45.4
Betelgeuze	270	51.8	N 07	24.7	Shaula	96	10.8	S 37	07.3
Canopus	263	51.9	S 52	42.5	Rasalhague	95	59.0	N 12	32.5
Sirius	258	25.7	S 16	44.5	Etamin	90	42.7	N 51	29.0
Adhara	255	05.5	S 29	00.3	Kaus Australis	83	33.0	S 34	22.3
Castor	245	56.7	N 31	50.0	Vega	80	33.8	N 38	48.2
Procyon	244	50.3	N 05	10.1	Nunki	75	48.2	S 26	16.0
Pollux	243	16.6	N 27	57.9	Albireo	67	04.5	N 28	00.7
Avior	234	14.2	S 59	35.2	Altair	62	00.5	N 08	55.9
Suhail	222	46.0	S 43	31.8	Peacock	53	06.3	S 56	39.4
Miaplacidus	221	37.4	S 69	48.9	Deneb	49	26.2	N 45	22.3
Alphard	217	47.6	S 08	46.0	Enif	33	39.1	N 09	59.4
Regulus	207	34.2	N 11	50.6	Alnair	27	33.3	S 46	50.6
Dubhe	193	40.7	N 61	36.7	Formalhaut	15	14.8	S 29	29.5
Denebola	182	24.8	N 14	25.9	Markab	13	30.1	N 15	20.5

2024 - First Point of Aries / Selected Stars

day 366 of 366 December 31					
UT	GHA	ddGHA			UT
	° ' "	' "			
00	99 54.8	+02.5			00
01	114 57.3	+02.5			01
02	129 59.8	+02.4			02
03	145 02.2	+02.5			03
04	160 04.7	+02.5			04
05	175 07.2	+02.4			05
06	190 09.6	+02.5			06
07	205 12.1	+02.4			07
08	220 14.5	+02.5			08
09	235 17.0	+02.5			09
10	250 19.5	+02.4			10
11	265 21.9	+02.5			11
12	280 24.4	+02.5			12
13	295 26.9	+02.4			13
14	310 29.3	+02.5			14
15	325 31.8	+02.5			15
16	340 34.3	+02.4			16
17	355 36.7	+02.5			17
18	10 39.2	+02.5			18
19	25 41.7	+02.4			19
20	40 44.1	+02.5			20
21	55 46.6	+02.4			21
22	70 49.0	+02.5			22
23	85 51.5	+02.5			23

	SHA	Dec		SHA	Dec
	° ' "	° ' "		° ' "	° ' "
Alpheratz	357 34.9	N 29 13.9	Gienah	175 43.5	S 17 40.8
Ankaa	353 07.3	S 42 10.3	Acrux	173 00.1	S 63 14.0
Schedir	349 31.1	N 56 40.8	Gacrux	171 51.7	S 57 14.8
Diphda	348 47.4	S 17 51.1	Alioth	166 13.1	N 55 49.1
Achernar	335 20.1	S 57 06.8	Spica	158 22.4	S 11 17.5
Hamal	327 51.1	N 23 35.0	Alkaid	152 52.1	N 49 11.0
Polaris	313 44.9	N 89 22.4	Hadar	148 36.3	S 60 29.3
Acamar	315 11.5	S 40 12.4	Menkent	147 57.5	S 36 29.1
Menkar	314 06.0	N 04 11.3	Arcturus	145 47.7	N 19 03.8
Mirfak	308 27.9	N 49 57.2	Rigel Kentaurus	139 37.8	S 60 56.3
Aldebaran	290 39.4	N 16 33.7	Zubenelgenubi	136 56.2	S 16 08.7
Capella	280 21.5	N 46 01.6	Kocab	137 20.4	N 74 02.8
Rigel	281 03.6	S 08 10.4	Alphecca	126 04.1	N 26 37.7
Bellatrix	278 22.6	N 06 22.4	Antares	112 16.3	S 26 29.2
Elnath	278 01.5	N 28 37.8	Atria	107 11.0	S 69 04.2
Alnilam	275 37.4	S 01 11.2	Sabik	102 03.1	S 15 45.4
Betelgeuze	270 51.8	N 07 24.7	Shaula	96 10.8	S 37 07.3
Canopus	263 51.9	S 52 42.5	Rasalhague	95 58.9	N 12 32.5
Sirius	258 25.7	S 16 44.5	Etamin	90 42.7	N 51 29.0
Adhara	255 05.5	S 29 00.3	Kaus Australis	83 32.9	S 34 22.3
Castor	245 56.6	N 31 50.0	Vega	80 33.8	N 38 48.2
Procyon	244 50.3	N 05 10.0	Nunki	75 48.2	S 26 16.0
Pollux	243 16.6	N 27 57.9	Albireo	67 04.5	N 28 00.7
Avior	234 14.1	S 59 35.2	Altair	62 00.5	N 08 55.9
Suhail	222 45.9	S 43 31.8	Peacock	53 06.3	S 56 39.4
Miaplacidus	221 37.4	S 69 49.0	Deneb	49 26.2	N 45 22.2
Alphard	217 47.5	S 08 46.0	Enif	33 39.1	N 09 59.4
Regulus	207 34.1	N 11 50.6	Alnair	27 33.3	S 46 50.6
Dubhe	193 40.6	N 61 36.7	Formalhaut	15 14.8	S 29 29.5
Denebola	182 24.7	N 14 25.9	Markab	13 30.1	N 15 20.5

Polaris (Pole Star) Tables, 2024

For determining Latitude from Sextant Altitude and for Azimuth

LHA ARIES	000° - 009°	010° - 019°	020° - 029°	030° - 039°	040° - 049°	050° - 059°	060° - 069°	070° - 079°	080° - 089°	090° - 099°	100° - 109°	110° - 119°
	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0
	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
0	0 32.5	0 28.2	0 24.8	0 22.5	0 21.2	0 21.1	0 22.2	0 24.4	0 27.6	0 31.8	0 36.8	0 42.5
1	0 32.0	0 27.8	0 24.5	0 22.3	0 21.2	0 21.2	0 22.4	0 24.7	0 28.0	0 32.3	0 37.4	0 43.1
2	0 31.6	0 27.4	0 24.2	0 22.1	0 21.1	0 21.3	0 22.6	0 25.0	0 28.4	0 32.8	0 37.9	0 43.7
3	0 31.1	0 27.1	0 24.0	0 22.0	0 21.1	0 21.3	0 22.8	0 25.3	0 28.8	0 33.2	0 38.5	0 44.3
4	0 30.7	0 26.7	0 23.7	0 21.8	0 21.1	0 21.4	0 23.0	0 25.6	0 29.2	0 33.7	0 39.0	0 45.0
5	0 30.2	0 26.4	0 23.5	0 21.7	0 21.0	0 21.5	0 23.2	0 25.9	0 29.6	0 34.2	0 39.6	0 45.6
6	0 29.8	0 26.0	0 23.3	0 21.6	0 21.0	0 21.6	0 23.4	0 26.2	0 30.0	0 34.7	0 40.2	0 46.2
7	0 29.4	0 25.7	0 23.0	0 21.5	0 21.0	0 21.8	0 23.6	0 26.6	0 30.5	0 35.3	0 40.8	0 46.8
8	0 29.0	0 25.4	0 22.8	0 21.4	0 21.1	0 21.9	0 23.9	0 26.9	0 30.9	0 35.8	0 41.3	0 47.4
9	0 28.6	0 25.1	0 22.6	0 21.3	0 21.1	0 22.1	0 24.1	0 27.3	0 31.4	0 36.3	0 41.9	0 48.1
Lat.	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "	' "
10	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8
20	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9
30	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9
40	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	0.9
45	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0
50	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0
55	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
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	0.9	1.1	1.1
64	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
66	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2
68	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3
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	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	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	0.8
Jul	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6
Aug	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
Sep	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Oct	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Nov	0.7	0.6	0.6	0.5	0.5	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	0.1	0.1
Lat.	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo
	°	°	°	°	°	°	°	°	°	°	°	°
10	0.4	0.3	0.2	0.1	0.0	359.9	359.8	359.7	359.6	359.5	359.4	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	359.9	359.7	359.6	359.4	359.3	359.2	359.2
50	0.6	0.5	0.4	0.2	0.0	359.8	359.7	359.5	359.4	359.2	359.1	359.1
55	0.7	0.6	0.4	0.2	0.0	359.8	359.6	359.5	359.3	359.2	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	0.3	0.0	359.8	359.5	359.3	359.1	359.0	358.8	358.7
64	1.0	0.8	0.5	0.3	0.0	359.8	359.5	359.3	359.1	358.9	358.7	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	359.2	358.9	358.7	358.5	358.4
70	1.2	1.0	0.7	0.4	0.0	359.7	359.4	359.1	358.8	358.6	358.4	358.3

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

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

Polaris (Pole Star) Tables, 2024

For determining Latitude from Sextant Altitude and for Azimuth

LHA ARIES	120° - 129°	130° - 139°	140° - 149°	150° - 159°	160° - 169°	170° - 179°	180° - 189°	190° - 199°	200° - 209°	210° - 219°	220° - 229°	230° - 239°
	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '	a0 , '
0	0 48.7	0 55.2	1 01.8	1 08.4	1 14.6	1 20.4	1 25.5	1 29.8	1 33.2	1 35.5	1 36.8	1 36.9
1	0 49.4	0 55.9	1 02.5	1 09.0	1 15.2	1 20.9	1 26.0	1 30.2	1 33.5	1 35.7	1 36.8	1 36.8
2	0 50.0	0 56.5	1 03.2	1 09.6	1 15.8	1 21.5	1 26.4	1 30.6	1 33.8	1 35.9	1 36.9	1 36.7
3	0 50.6	0 57.2	1 03.8	1 10.3	1 16.4	1 22.0	1 26.9	1 30.9	1 34.0	1 36.0	1 36.9	1 36.7
4	0 51.3	0 57.9	1 04.5	1 10.9	1 17.0	1 22.5	1 27.3	1 31.3	1 34.3	1 36.2	1 36.9	1 36.6
5	0 51.9	0 58.5	1 05.1	1 11.5	1 17.6	1 23.0	1 27.8	1 31.6	1 34.5	1 36.3	1 37.0	1 36.5
6	0 52.6	0 59.2	1 05.8	1 12.2	1 18.1	1 23.5	1 28.2	1 32.0	1 34.7	1 36.4	1 37.0	1 36.4
7	0 53.2	0 59.9	1 06.4	1 12.8	1 18.7	1 24.0	1 28.6	1 32.3	1 35.0	1 36.5	1 37.0	1 36.2
8	0 53.9	1 00.5	1 07.1	1 13.4	1 19.3	1 24.5	1 29.0	1 32.6	1 35.2	1 36.6	1 36.9	1 36.1
9	0 54.6	1 01.2	1 07.7	1 14.0	1 19.8	1 25.0	1 29.4	1 32.9	1 35.4	1 36.7	1 36.9	1 35.9
Lat.	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '	a1 , '
10	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5
20	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5
30	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.5
40	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.6	0.6	0.5
45	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.5
50	1.1	1.1	1.1	1.1	1.0	0.9	0.9	0.8	0.7	0.6	0.6	0.5
55	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5
60	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
62	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
64	1.2	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.5
66	1.3	1.3	1.3	1.2	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5
68	1.3	1.3	1.3	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.6	0.5
70	1.4	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.6	0.5
Month	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '	a2 , '
Jan	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
Feb	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Mar	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
Apr	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3
May	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4
Jun	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5
Jul	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
Aug	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
Sep	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.8
Oct	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7
Nov	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6
Dec	0.0	0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4
Lat.	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '	Zo , '
10	359.4	359.4	359.4	359.4	359.4	359.5	359.6	359.7	359.8	359.9	360.0	0.1
20	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.8	359.9	360.0	0.1
30	359.3	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.9	360.0	0.1
40	359.2	359.2	359.2	359.2	359.3	359.4	359.5	359.6	359.7	359.8	360.0	0.1
45	359.1	359.1	359.1	359.2	359.2	359.3	359.4	359.5	359.7	359.8	360.0	0.1
50	359.0	359.0	359.0	359.1	359.1	359.2	359.4	359.5	359.7	359.8	360.0	0.2
55	358.9	358.9	358.9	359.0	359.0	359.2	359.3	359.4	359.6	359.8	360.0	0.2
60	358.8	358.7	358.8	358.8	358.9	359.0	359.2	359.4	359.6	359.8	360.0	0.2
62	358.7	358.7	358.7	358.7	358.8	359.0	359.1	359.3	359.5	359.8	360.0	0.2
64	358.6	358.6	358.6	358.6	358.8	358.9	359.1	359.3	359.5	359.7	360.0	0.2
66	358.5	358.4	358.5	358.5	358.7	358.8	359.0	359.2	359.5	359.7	360.0	0.2
68	358.3	358.3	358.3	358.4	358.5	358.7	358.9	359.2	359.4	359.7	360.0	0.3
70	358.2	358.2	358.2	358.3	358.4	358.6	358.8	359.1	359.4	359.7	360.0	0.3

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

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

Polaris (Pole Star) Tables, 2024

For determining Latitude from Sextant Altitude and for Azimuth

LHA ARIES	240° - 249°	250° - 259°	260° - 269°	270° - 279°	280° - 289°	290° - 299°	300° - 309°	310° - 319°	320° - 329°	330° - 339°	340° - 349°	350° - 359°
	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0	a0
	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,
0	1 35.8	1 33.6	1 30.4	1 26.2	1 21.2	1 15.5	1 09.3	1 02.8	0 56.2	0 49.6	0 43.4	0 37.6
1	1 35.6	1 33.3	1 30.0	1 25.7	1 20.6	1 14.9	1 08.6	1 02.1	0 55.5	0 49.0	0 42.8	0 37.1
2	1 35.4	1 33.0	1 29.6	1 25.2	1 20.1	1 14.3	1 08.0	1 01.5	0 54.8	0 48.4	0 42.2	0 36.5
3	1 35.2	1 32.7	1 29.2	1 24.8	1 19.5	1 13.7	1 07.4	1 00.8	0 54.2	0 47.7	0 41.6	0 36.0
4	1 35.0	1 32.4	1 28.8	1 24.3	1 19.0	1 13.0	1 06.7	1 00.1	0 53.5	0 47.1	0 41.0	0 35.5
5	1 34.8	1 32.1	1 28.4	1 23.8	1 18.4	1 12.4	1 06.1	0 59.5	0 52.9	0 46.5	0 40.4	0 35.0
6	1 34.6	1 31.8	1 28.0	1 23.3	1 17.8	1 11.8	1 05.4	0 58.8	0 52.2	0 45.8	0 39.9	0 34.5
7	1 34.4	1 31.4	1 27.5	1 22.7	1 17.2	1 11.2	1 04.8	0 58.1	0 51.6	0 45.2	0 39.3	0 34.0
8	1 34.1	1 31.1	1 27.1	1 22.2	1 16.7	1 10.6	1 04.1	0 57.5	0 50.9	0 44.6	0 38.7	0 33.5
9	1 33.9	1 30.7	1 26.6	1 21.7	1 16.1	1 09.9	1 03.4	0 56.8	0 50.3	0 44.0	0 38.2	0 33.0
Lat.	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,
10	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3
30	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3
45	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
50	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
55	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
60	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
62	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5
64	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
66	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
68	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.5
70	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6
Month	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2	a2
	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,	° ,
Jan	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Feb	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
Mar	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5
Apr	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4
May	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Jun	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Jul	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1
Aug	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2
Sep	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3
Oct	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5
Nov	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
Dec	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
Lat.	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo
	°	°	°	°	°	°	°	°	°	°	°	°
10	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
20	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.5
30	0.2	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6
40	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.6
45	0.3	0.4	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.7
50	0.3	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.8
55	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.0	1.0	0.9
60	0.4	0.6	0.8	0.9	1.1	1.2	1.2	1.3	1.3	1.2	1.1	1.0
62	0.4	0.6	0.8	1.0	1.1	1.3	1.3	1.3	1.3	1.3	1.2	1.1
64	0.5	0.7	0.9	1.1	1.2	1.3	1.4	1.4	1.4	1.4	1.3	1.1
66	0.5	0.7	1.0	1.2	1.3	1.4	1.5	1.6	1.5	1.5	1.4	1.2
68	0.5	0.8	1.0	1.3	1.4	1.6	1.7	1.7	1.7	1.6	1.5	1.3
70	0.6	0.9	1.1	1.4	1.6	1.7	1.8	1.8	1.8	1.8	1.6	1.5

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

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

