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Nautical Almanac (Selected Stars)

2022

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Star Maps
The Nautical Almanac 2022 (Selected Stars)
Polaris Tables 2022

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 Thu Oct 28 11:53:37 2021

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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 : 69.3 s	Apr : 69.3 s	Jul : 69.3 s	Oct : 69.2 s
Feb : 69.3 s	May : 69.3 s	Aug : 69.2 s	Nov : 69.2 s
Mar : 69.3 s	Jun : 69.3 s	Sep : 69.2 s	Dec : 69.2 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 Greenwhich 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/"*

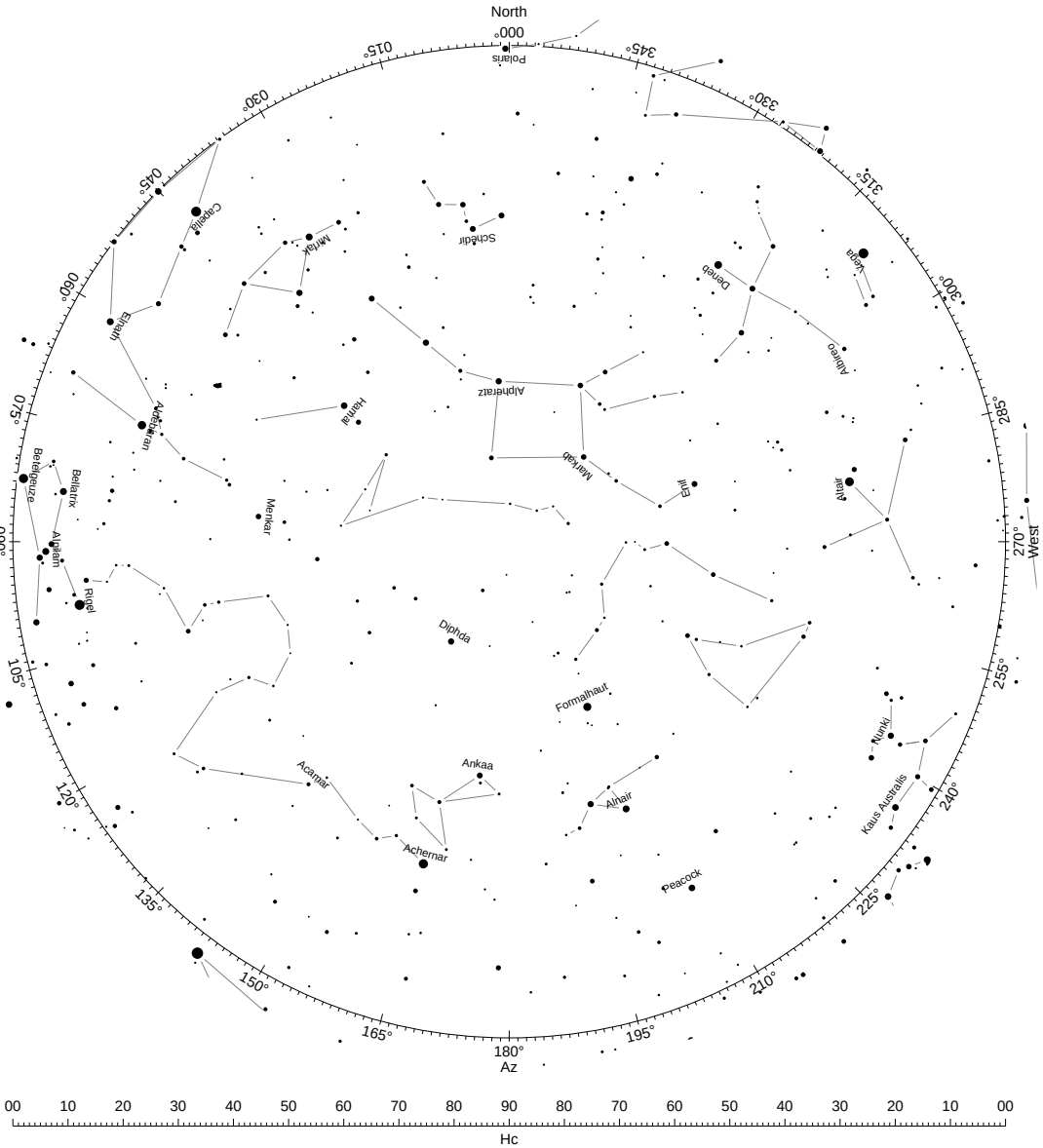
The following table shows the fundamental star data as used in this Almanac. The data refers to Equinox J2000 / Epoch J2000.0.

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
Acrux	12 26 35.9	S 63 05.9	-0.035370	-0.014730	0.010	-11
Gacrux	12 31 09.9	S 57 06.8	0.027940	-0.264330	0.037	21
Alioth	12 54 01.6	N 55 57.6	0.112000	-0.009000	0.040	-9
Spica	13 25 11.6	S 11 09.7	-0.042500	-0.031730	0.012	1
Alkaid	13 47 32.4	N 49 18.8	-0.122000	-0.015600	0.032	-11
Hadar	14 03 49.4	S 60 22.4	-0.033960	-0.025060	0.009	6
Menkent	14 06 41.3	S 36 22.1	-0.519290	-0.517870	0.053	1
Arcturus	14 15 39.7	N 19 10.9	-1.093450	-1.999400	0.089	5
Rigel Kentaurus	14 39 36.5	S 60 50.0	-3.678190	0.481840	0.747	-22
Zubenelgenubi	14 50 52.8	S 16 02.5	-0.106000	-0.067000	0.058	-10
Kocab	14 50 42.3	N 74 09.3	-0.032290	0.011910	0.026	17
Alphecca	15 34 41.3	N 26 42.9	0.120380	-0.089440	0.044	2
Antares	16 29 24.0	S 26 25.9	-0.010160	-0.023210	0.005	-3
Atria	16 48 39.9	S 69 01.7	0.017850	-0.032920	0.008	-3
Sabik	17 10 22.7	S 15 43.5	0.041160	0.097650	0.039	-2
Shaula	17 33 36.5	S 37 06.2	-0.008900	-0.029950	0.005	-3
Rasalhague	17 34 56.1	N 12 33.6	0.110080	-0.222610	0.070	13
Etamin	17 56 36.4	N 51 29.3	-0.008480	-0.022790	0.021	-28
Kaus Australis	18 24 10.3	S 34 23.1	-0.039420	-0.124200	0.023	-15
Vega	18 36 56.3	N 38 47.0	0.201030	0.287470	0.129	-14
Nunki	18 55 15.9	S 26 17.8	0.015140	-0.053430	0.014	-11
Albireo	19 30 43.3	N 27 57.6	0.005000	0.006000	0.009	-24
Altair	19 50 47.0	N 08 52.1	0.536870	0.385570	0.194	-26
Peacock	20 25 38.9	S 56 44.1	0.007710	-0.086150	0.018	2
Deneb	20 41 25.9	N 45 16.8	0.001990	0.001950	0.002	-5
Enif	21 44 11.2	N 09 52.5	0.030020	-0.001380	0.005	3
Alnair	22 08 14.0	S 46 57.7	0.128000	-0.148000	0.032	11
Formalhaut	22 57 39.0	S 29 37.3	0.329220	-0.164220	0.131	7
Markab	23 04 45.6	N 15 12.3	0.060400	-0.041300	0.024	-4

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

Star Name	Bayer designation	Apparent Magnitude
Alpheratz	Alpha Andromedae	2.06
Ankaa	Alpha Phoenicis	2.39
Schedir	Alpha Cassiopeiae	2.23
Diphda	Beta Ceti	2.04
Achernar	Alpha Eridani	0.46
Hamal	Alpha Arietis	2.00
Polaris	Alpha Ursae Minoris	2.02
Acamar	Theta Eridani	3.24
Menkar	Alpha Ceti	2.53
Mirfak	Alpha Persei	1.79
Aldebaran	Alpha Tauri	0.85
Capella	Alpha Aurigae	0.08
Rigel	Beta Orionis	0.12
Bellatrix	Gamma Orionis	1.64
Elnath	Beta Tauri	1.65
Alnilam	Epsilon Orionis	1.70
Betelgeuze	Alpha Orionis	0.50
Canopus	Alpha Carinae	-0.72
Sirius	Alpha Canis Majoris	-1.46
Adhara	Epsilon Canis Majoris	1.50
Castor	Alpha Geminorum	2.88
Procyon	Alpha Canis Minoris	0.38
Pollux	Beta Geminorum	1.14
Avior	Epsilon Carinae	1.86
Suhail	Lambda Velorum	2.21
Miaplacidus	Beta Carinae	1.68
Alphard	Alpha 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

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

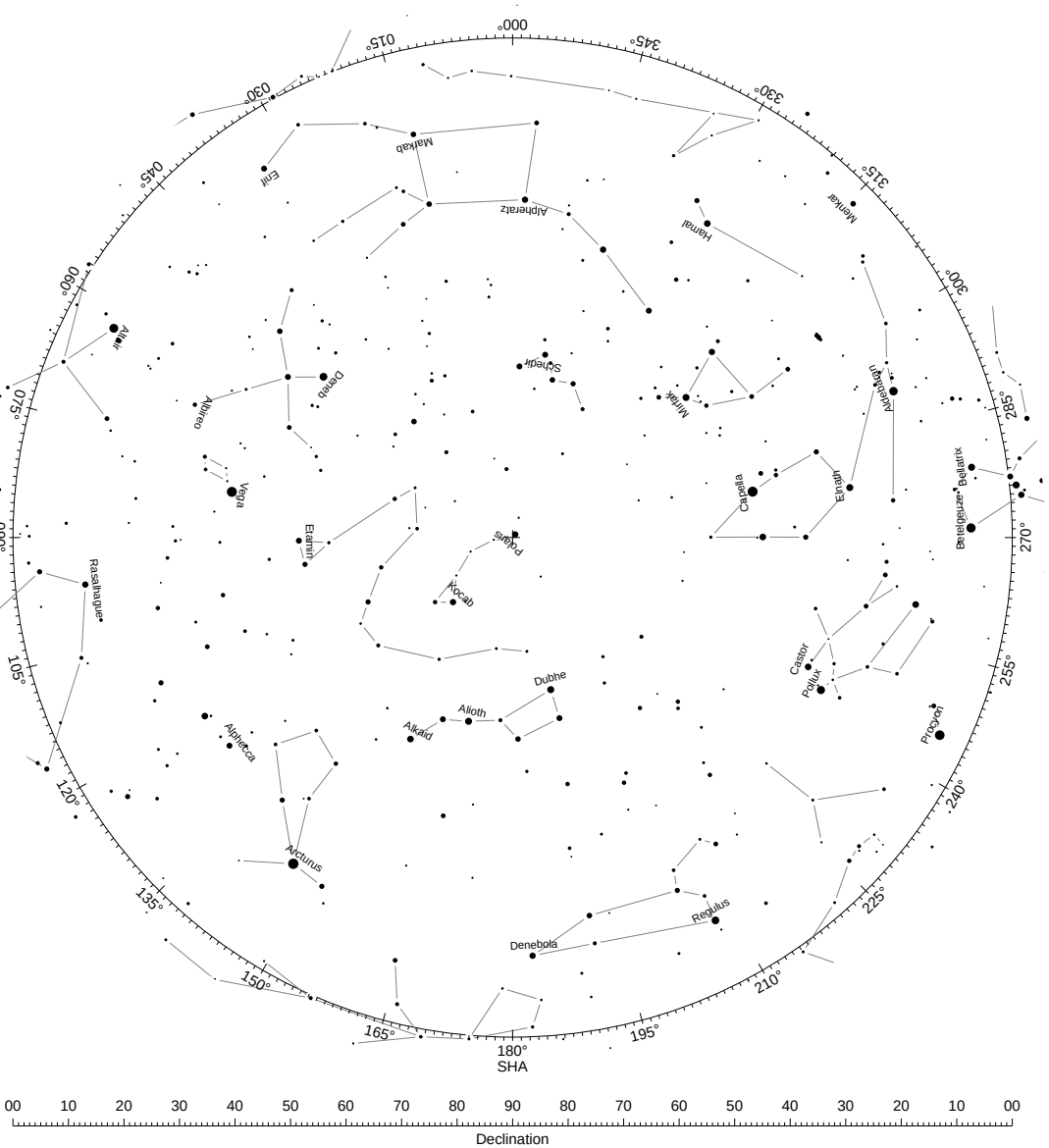


The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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

Position of the Stars on the local hemisphere

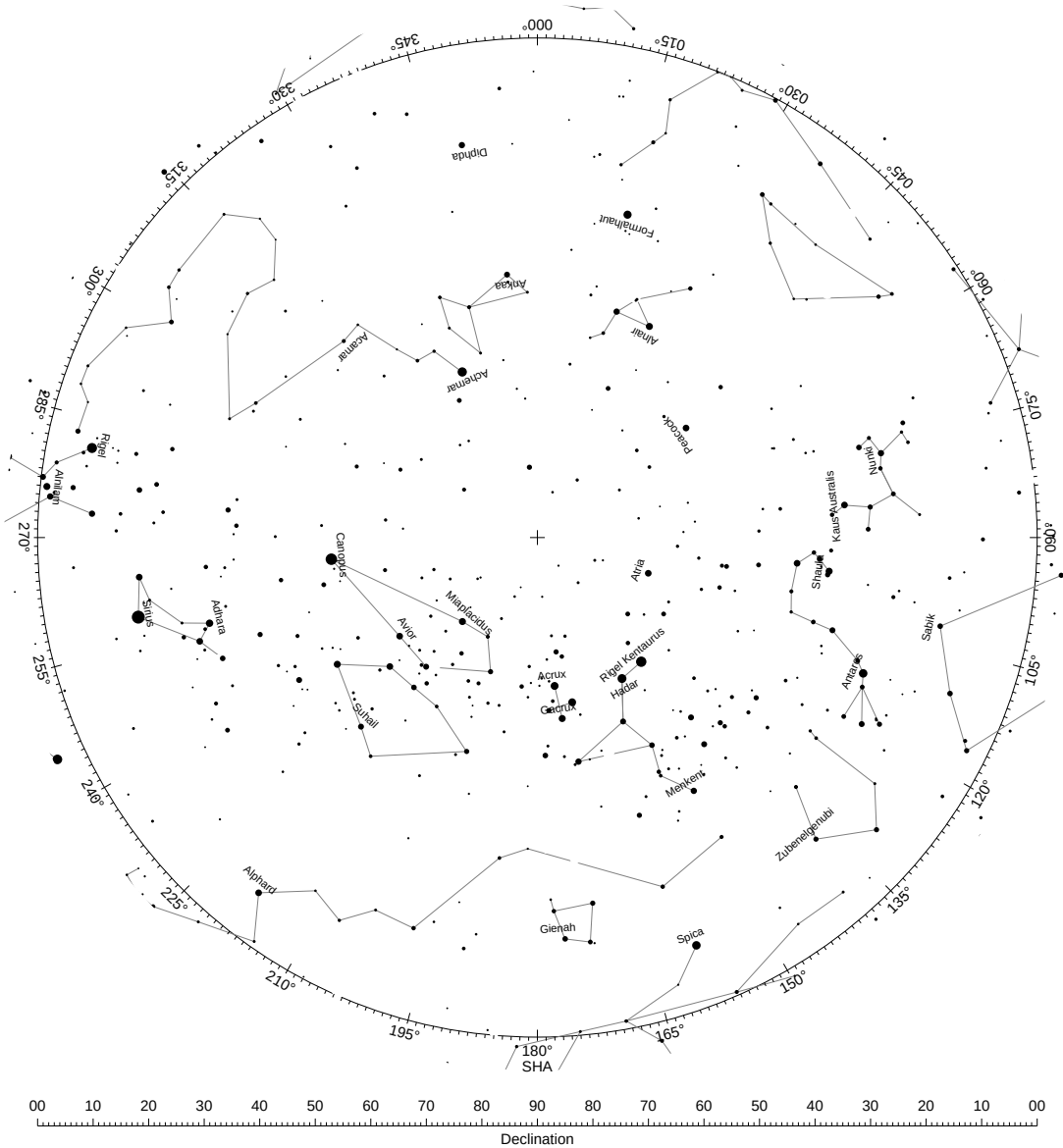
The following pages show different maps of the brightest stars on the night sky (down to magnitude 4.5) as well as some of the standard constellations. On each of the maps, the stars used in this Almanac are labeled with their traditional names.
The first two maps are stereographic maps of the stars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



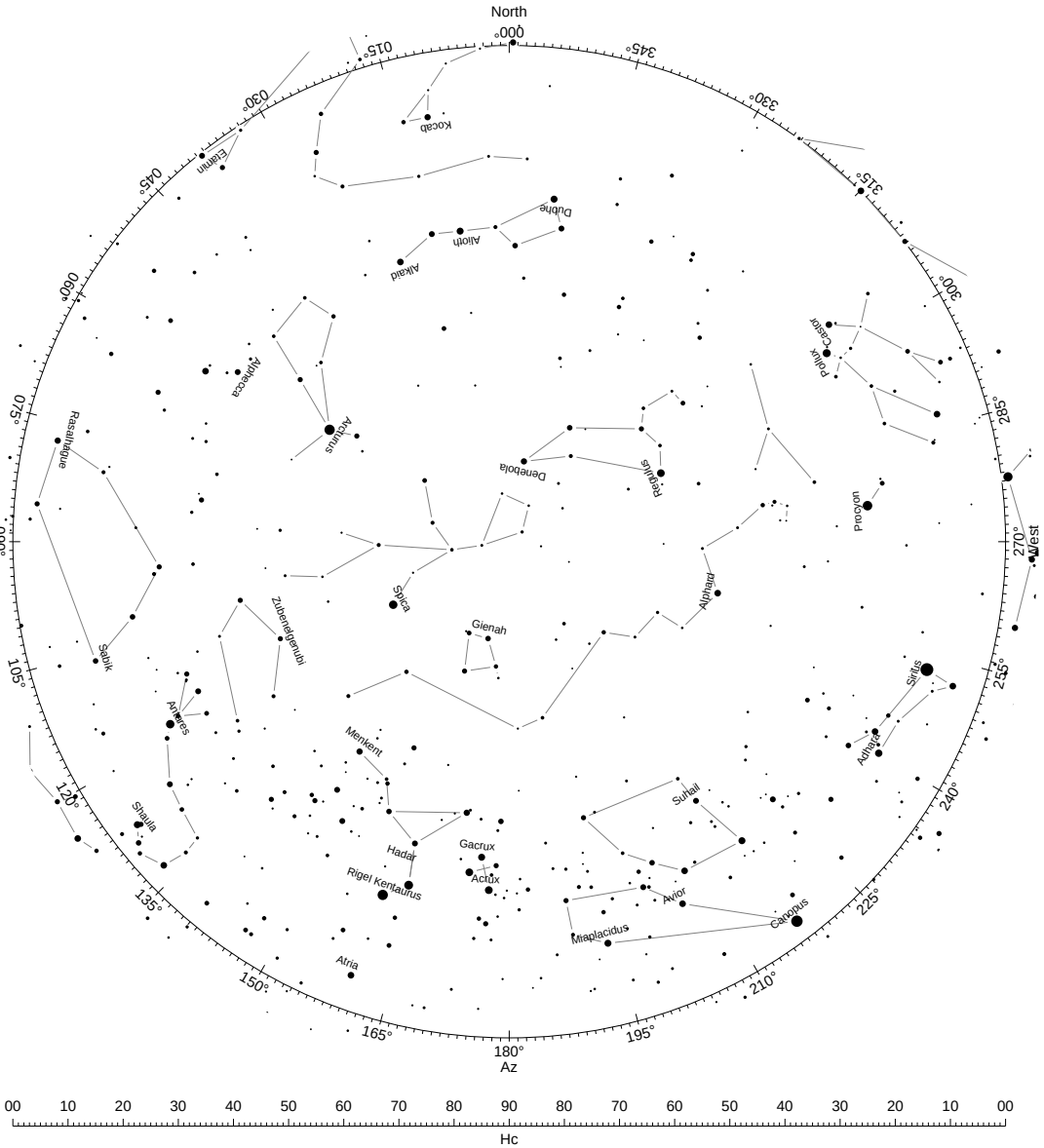
The map is centered on the celestial north pole and shows the brightest stars (up to magnitude 4.5) of the northern celestial hemisphere. The circle of constant declination is shown at 00° (Celestial Equator).
The Sidereal Hour Angle of a specific star can be directly read from the SHA scale plotted 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



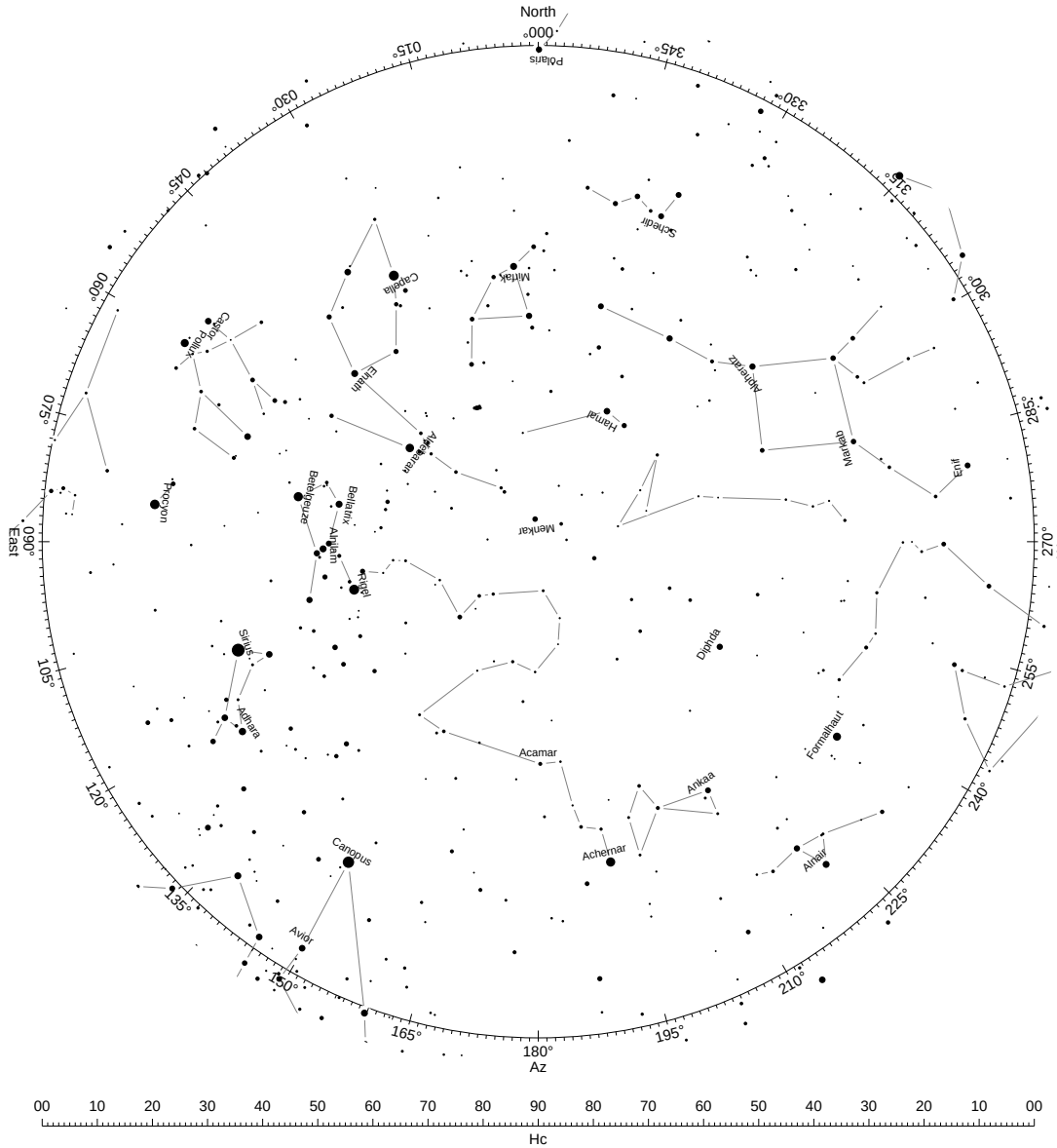
The map is centered on the celestial south pole and shows the brightest stars (up to magnitude 4.5) of the southern celestial hemisphere. The circle of constant declination is shown at 00° (Celestial Equator).
The Sidereal Hour Angle of a specific star can be directly read from the SHA scale plotted 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 V



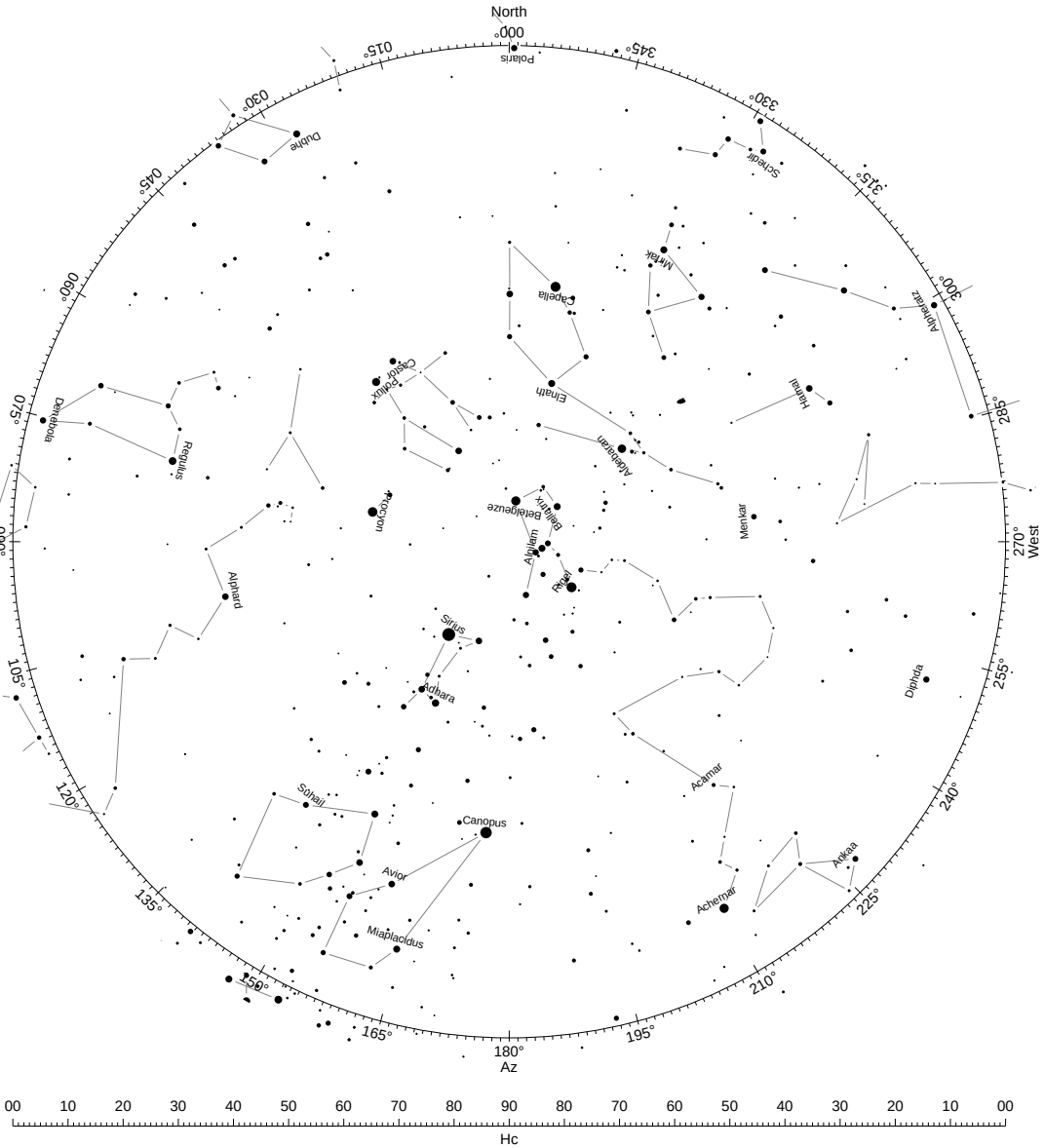
The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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



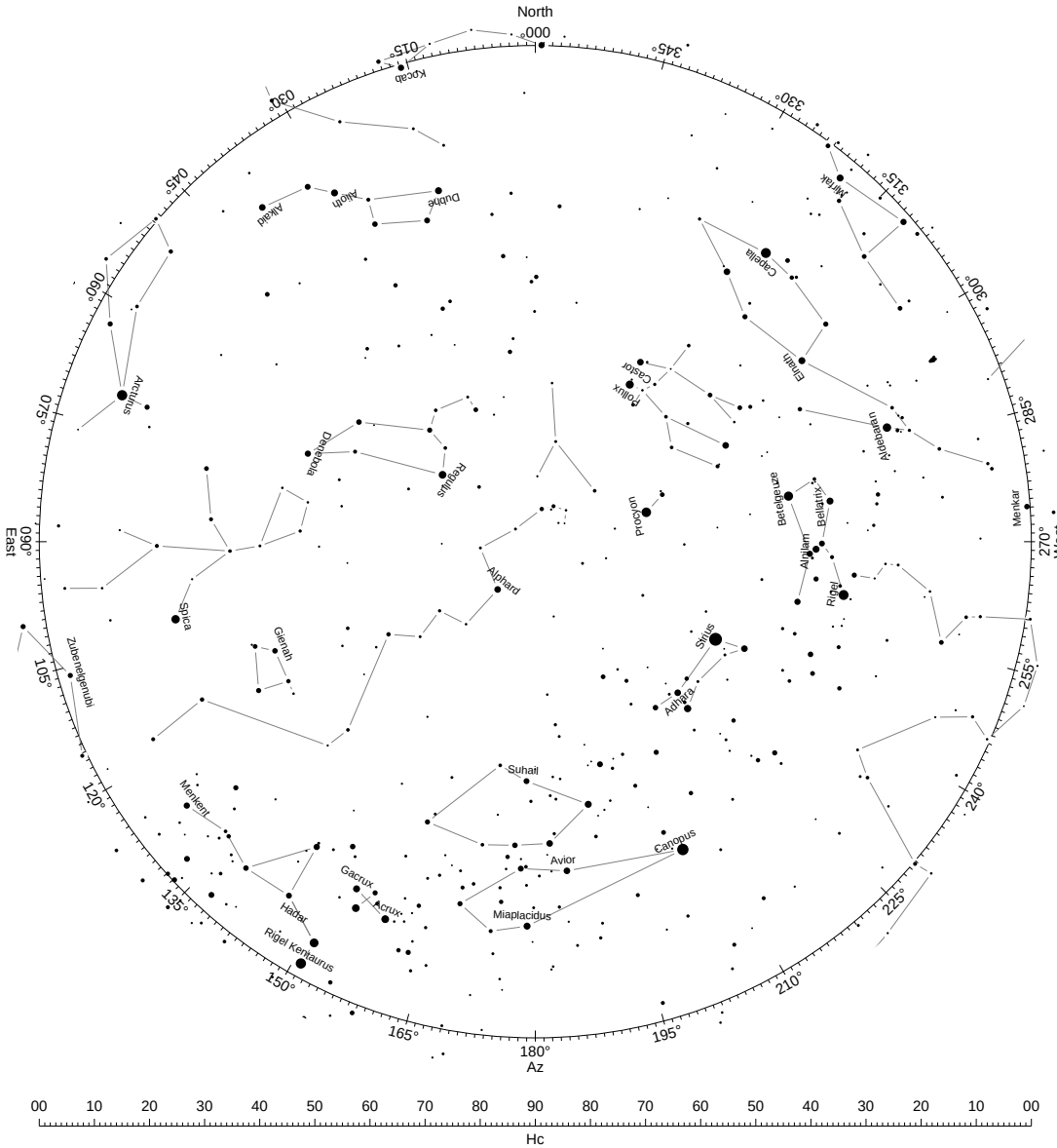
The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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



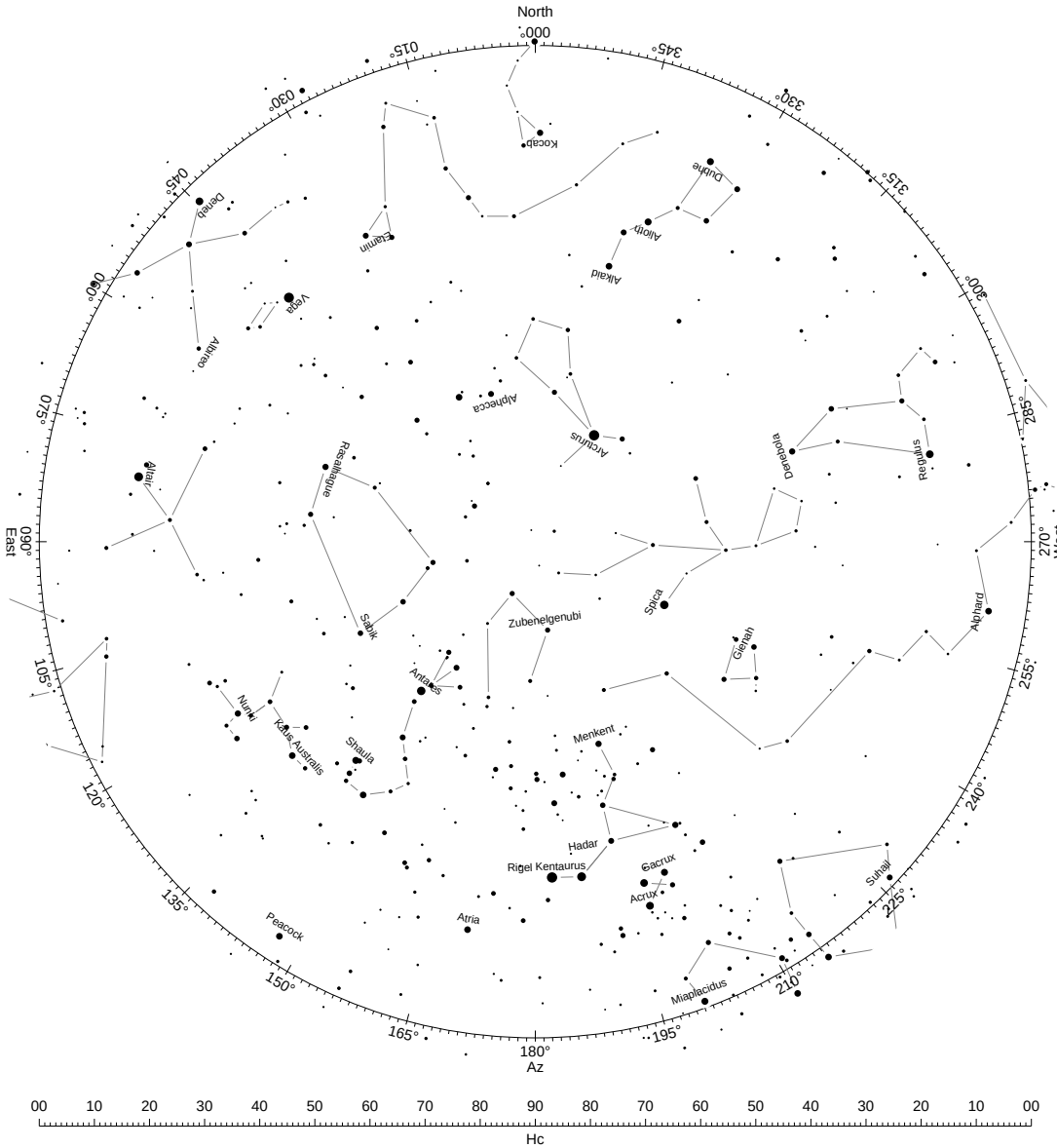
The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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



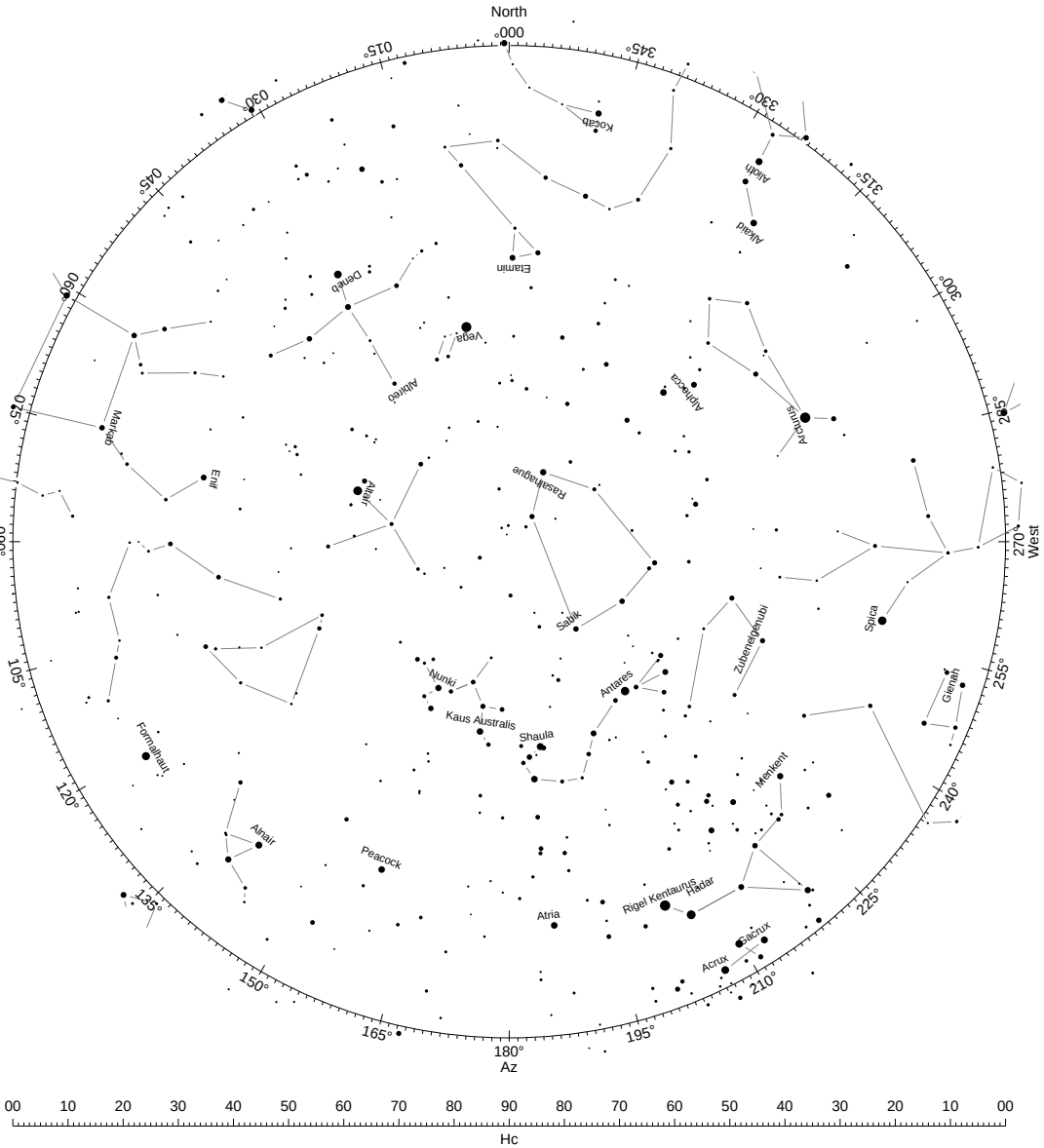
The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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



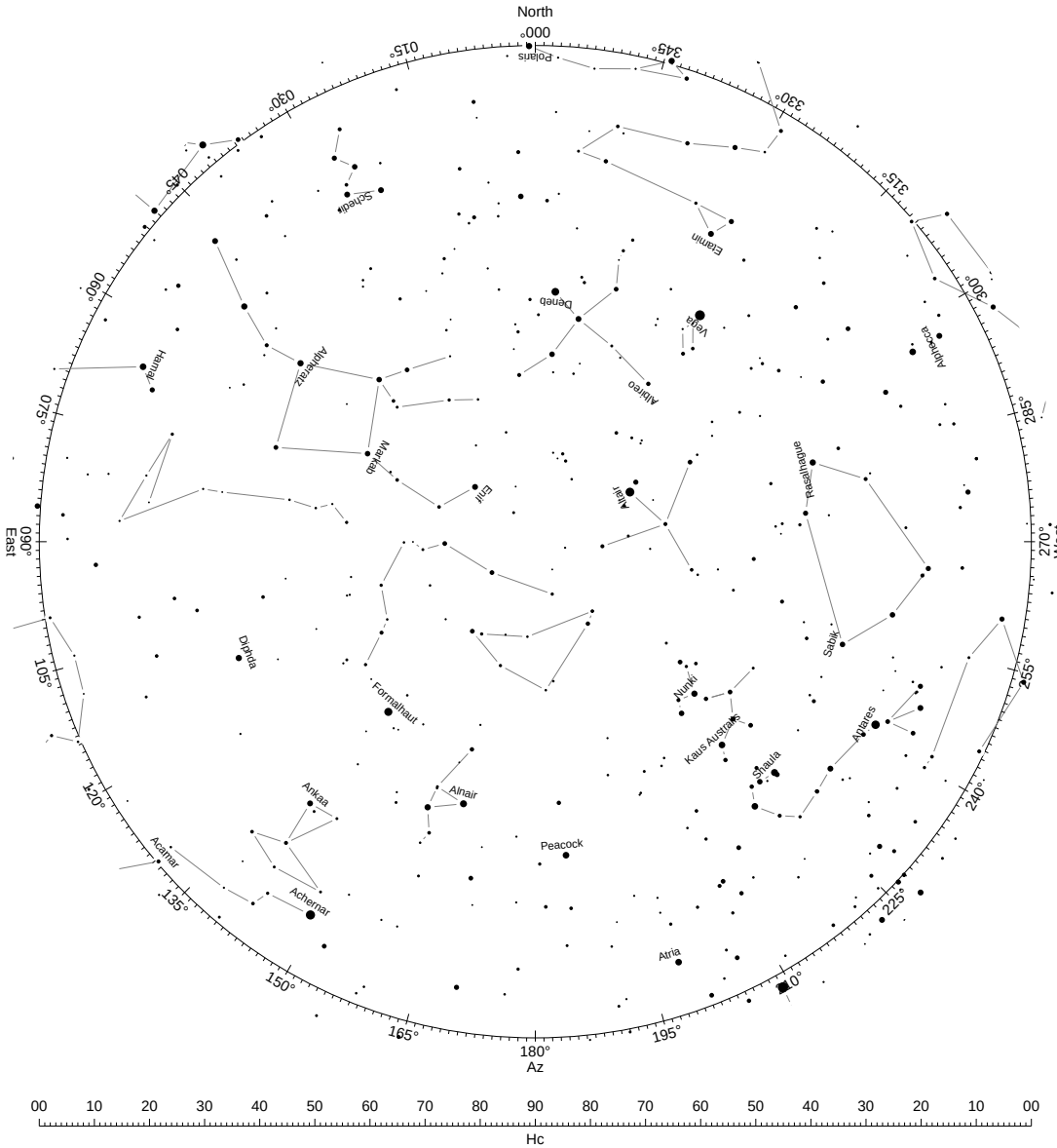
The Horizontal-Coordinate-System map shows the brightest stars (up to magnitude 4.5) of the local hemisphere for a location on the Equator. The stars are plotted with their Altitude (Hc) and Azimuth (Az) coordinates. The Azimuth scale is plotted on the circle of 0°-Altitude (local horizon). The Azimuth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

2022 - First Point of Aries / Selected Stars

UT	day 11 of 365 January 11 GHA ° ′	ddGHA ′	day 12 of 365 January 12 GHA ° ′	ddGHA ′	day 13 of 365 January 13 GHA ° ′	ddGHA ′	day 14 of 365 January 14 GHA ° ′	ddGHA ′	day 15 of 365 January 15 GHA ° ′	ddGHA ′	UT
00	110 29.0	+02.4	111 28.1	+02.5	112 27.3	+02.4	113 26.4	+02.5	114 25.5	+02.5	00
01	125 31.4	+02.5	126 30.6	+02.4	127 29.7	+02.5	128 28.9	+02.4	129 28.0	+02.5	01
02	140 33.9	+02.5	141 33.0	+02.5	142 32.2	+02.5	143 31.3	+02.5	144 30.5	+02.4	02
03	155 36.4	+02.4	156 35.5	+02.5	157 34.7	+02.4	158 33.8	+02.5	159 32.9	+02.5	03
04	170 38.8	+02.5	171 38.0	+02.4	172 37.1	+02.5	173 36.3	+02.4	174 35.4	+02.5	04
05	185 41.3	+02.5	186 40.4	+02.5	187 39.6	+02.4	188 38.7	+02.5	189 37.9	+02.4	05
06	200 43.8	+02.4	201 42.9	+02.5	202 42.0	+02.5	203 41.2	+02.4	204 40.3	+02.5	06
07	215 46.2	+02.5	216 45.4	+02.4	217 44.5	+02.5	218 43.6	+02.5	219 42.8	+02.5	07
08	230 48.7	+02.5	231 47.8	+02.5	232 47.0	+02.4	233 46.1	+02.5	234 45.3	+02.4	08
09	245 51.2	+02.4	246 50.3	+02.5	247 49.4	+02.5	248 48.6	+02.4	249 47.7	+02.5	09
10	260 53.6	+02.5	261 52.8	+02.4	262 51.9	+02.5	263 51.0	+02.5	264 50.2	+02.4	10
11	275 56.1	+02.5	276 55.2	+02.5	277 54.4	+02.4	278 53.5	+02.5	279 52.6	+02.5	11
12	290 58.6	+02.4	291 57.7	+02.5	292 56.8	+02.5	293 56.0	+02.4	294 55.1	+02.5	12
13	306 01.0	+02.5	307 00.2	+02.4	307 59.3	+02.5	308 58.4	+02.5	309 57.6	+02.4	13
14	321 03.5	+02.4	322 02.6	+02.4	323 01.8	+02.4	324 00.9	+02.5	325 00.0	+02.5	14
15	336 05.9	+02.5	337 05.1	+02.4	338 04.2	+02.5	339 03.4	+02.4	340 02.5	+02.5	15
16	351 08.4	+02.5	352 07.5	+02.5	353 06.7	+02.4	354 05.8	+02.5	355 05.0	+02.4	16
17	6 10.9	+02.4	7 10.0	+02.5	8 09.1	+02.5	9 08.3	+02.5	10 07.4	+02.5	17
18	21 13.3	+02.5	22 12.5	+02.4	23 11.6	+02.5	24 10.8	+02.4	25 09.9	+02.5	18
19	36 15.8	+02.5	37 14.9	+02.5	38 14.1	+02.4	39 13.2	+02.5	40 12.4	+02.4	19
20	51 18.3	+02.4	52 17.4	+02.5	53 16.5	+02.5	54 15.7	+02.4	55 14.8	+02.5	20
21	66 20.7	+02.5	67 19.9	+02.4	68 19.0	+02.5	69 18.1	+02.5	70 17.3	+02.5	21
22	81 23.2	+02.5	82 22.3	+02.5	83 21.5	+02.4	84 20.6	+02.5	85 19.8	+02.4	22
23	96 25.7	+02.4	97 24.8	+02.5	98 23.9	+02.5	99 23.1	+02.4	100 22.2	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.8	Gienah	175 46.0	S 17 39.7
Ankaa	353 09.8	S 42 11.4	*Acrux*	173 02.6	S 63 12.9
Schedir	349 33.9	N 56 39.7	*Gacrux*	171 54.2	S 57 13.8
Diphda	348 49.9	S 17 52.2	*Alioth*	166 15.2	N 55 50.2
Achernar	335 22.1	S 57 07.9	Spica	158 24.9	S 11 16.5
Hamal	327 53.9	N 23 34.0	*Alkaid*	152 54.0	N 49 12.0
Polaris	314 58.1	N 89 21.7	*Hadar*	148 39.6	S 60 28.4
Acamar	315 13.4	S 40 13.3	*Menkent*	148 00.3	S 36 28.2
Menkar	314 08.6	N 04 10.5	Arcturus	145 49.9	N 19 04.7
Mirfak	308 31.5	N 49 56.5	*Rigel Kentaurus*	139 41.3	S 60 55.4
Aldebaran	290 42.2	N 16 33.2	Zubenelgenubi	136 58.8	S 16 07.8
Capella	280 25.1	N 46 01.4	*Kocab*	137 20.3	N 74 03.6
Rigel	281 05.9	S 08 10.7	Alphecca	126 06.1	N 26 38.4
Bellatrix	278 25.2	N 06 22.1	Antares	112 19.2	S 26 28.7
Elnath	278 04.6	N 28 37.6	*Atria*	107 16.0	S 69 03.8
Alnilam	275 39.9	S 01 11.4	Sabik	102 05.9	S 15 45.1
Betelgeuze	270 54.4	N 07 24.6	*Shaula*	96 14.1	S 37 07.1
Canopus	263 52.9	S 52 42.5	Rasalhague	96 01.2	N 12 32.7
Sirius	258 27.9	S 16 44.4	*Etamin*	90 43.8	N 51 29.0
Adhara	255 07.4	S 29 00.2	*Kaus Australis*	83 36.2	S 34 22.4
Castor	245 59.7	N 31 50.4	*Vega*	80 35.4	N 38 48.1
Procyon	244 52.8	N 05 10.4	Nunki	75 51.2	S 26 16.1
Pollux	243 19.6	N 27 58.3	Albireo	67 06.4	N 28 00.3
Avior	234 15.0	S 59 34.7	Altair	62 02.9	N 08 55.4
Suhail	222 47.7	S 43 31.1	*Peacock*	53 10.2	S 56 39.9
Miaplacidus	221 37.7	S 69 48.3	*Deneb*	49 27.9	N 45 21.5
Alphard	217 49.9	S 08 45.2	Enif	33 41.5	N 09 58.5
Regulus	207 36.7	N 11 51.5	*Alnair*	27 36.4	S 46 51.5
Dubhe	193 43.6	N 61 37.7	Formalhaut	15 17.6	S 29 30.5
Denebola	182 27.2	N 14 26.9	Markab	13 32.5	N 15 19.4

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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 Greenwhich 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]

2022 - First Point of Aries / Selected Stars

UT	day 1 of 365 January 1 GHA	ddGHA	day 2 of 365 January 2 GHA	ddGHA	day 3 of 365 January 3 GHA	ddGHA	day 4 of 365 January 4 GHA	ddGHA	day 5 of 365 January 5 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	100 37.6	+02.4	101 36.7	+02.5	102 35.9	+02.4	103 35.0	+02.5	104 34.2	+02.4	00
01	115 40.0	+02.5	116 39.2	+02.5	117 38.3	+02.5	118 37.5	+02.4	119 36.6	+02.5	01
02	130 42.5	+02.5	131 41.7	+02.4	132 40.8	+02.5	133 39.9	+02.5	134 39.1	+02.4	02
03	145 45.0	+02.4	146 44.1	+02.5	147 43.3	+02.4	148 42.4	+02.5	149 41.5	+02.5	03
04	160 47.4	+02.5	161 46.6	+02.4	162 45.7	+02.5	163 44.9	+02.4	164 44.0	+02.5	04
05	175 49.9	+02.5	176 49.0	+02.5	177 48.2	+02.5	178 47.3	+02.5	179 46.5	+02.4	05
06	190 52.4	+02.4	191 51.5	+02.5	192 50.7	+02.4	193 49.8	+02.5	194 48.9	+02.5	06
07	205 54.8	+02.5	206 54.0	+02.4	207 53.1	+02.5	208 52.3	+02.4	209 51.4	+02.5	07
08	220 57.3	+02.5	221 56.4	+02.5	222 55.6	+02.4	223 54.7	+02.5	224 53.9	+02.4	08
09	235 59.8	+02.4	236 58.9	+02.5	237 58.0	+02.5	238 57.2	+02.5	239 56.3	+02.5	09
10	251 02.2	+02.5	252 01.4	+02.4	253 00.5	+02.5	253 59.7	+02.4	254 58.8	+02.5	10
11	266 04.7	+02.5	267 03.8	+02.5	268 03.0	+02.4	269 02.1	+02.5	270 01.3	+02.4	11
12	281 07.2	+02.4	282 06.3	+02.5	283 05.4	+02.5	284 04.6	+02.4	285 03.7	+02.5	12
13	296 09.6	+02.5	297 08.8	+02.4	298 07.9	+02.5	299 07.0	+02.5	300 06.2	+02.4	13
14	311 12.1	+02.4	312 11.2	+02.5	313 10.4	+02.4	314 09.5	+02.5	315 08.6	+02.5	14
15	326 14.5	+02.5	327 13.7	+02.5	328 12.8	+02.5	329 12.0	+02.4	330 11.1	+02.5	15
16	341 17.0	+02.5	342 16.2	+02.4	343 15.3	+02.5	344 14.4	+02.5	345 13.6	+02.4	16
17	356 19.5	+02.4	357 18.6	+02.5	358 17.8	+02.4	359 16.9	+02.5	0 16.0	+02.5	17
18	11 21.9	+02.5	12 21.1	+02.4	13 20.2	+02.5	14 19.4	+02.4	15 18.5	+02.5	18
19	26 24.4	+02.5	27 23.5	+02.5	28 22.7	+02.5	29 21.8	+02.5	30 21.0	+02.4	19
20	41 26.9	+02.4	42 26.0	+02.5	43 25.2	+02.4	44 24.3	+02.5	45 23.4	+02.5	20
21	56 29.3	+02.5	57 28.5	+02.4	58 27.6	+02.5	59 26.8	+02.4	60 25.9	+02.5	21
22	71 31.8	+02.5	72 30.9	+02.5	73 30.1	+02.4	74 29.2	+02.5	75 28.4	+02.4	22
23	86 34.3	+02.4	87 33.4	+02.5	88 32.5	+02.5	89 31.7	+02.5	90 30.8	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.4	N 29 12.8
Ankaa	353 09.8	S 42 11.4
Schedir	349 33.8	N 56 39.7
Diphda	348 49.9	S 17 52.2
Achernar	335 22.0	S 57 07.9
Hamal	327 53.9	N 23 34.0
Polaris	314 54.1	N 89 21.6
Acamar	315 13.4	S 40 13.3
Menkar	314 08.5	N 04 10.5
Mirfak	308 31.4	N 49 56.4
Aldebaran	290 42.2	N 16 33.2
Capella	280 25.1	N 46 01.4
Rigel	281 05.9	S 08 10.7
Bellatrix	278 25.2	N 06 22.1
Elnath	278 04.6	N 28 37.6
Alnilam	275 39.9	S 01 11.3
Betelgeuze	270 54.4	N 07 24.6
Canopus	263 52.9	S 52 42.5
Sirius	258 27.9	S 16 44.4
Adhara	255 07.4	S 29 00.1
Castor	245 59.8	N 31 50.4
Procyon	244 52.9	N 05 10.4
Pollux	243 19.6	N 27 58.3
Avior	234 15.1	S 59 34.6
Suhail	222 47.7	S 43 31.1
Miaplacidus	221 37.7	S 69 48.2
Alphard	217 49.9	S 08 45.2
Regulus	207 36.8	N 11 51.6
Dubhe	193 43.7	N 61 37.7
Denebola	182 27.3	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 46.0	S 17 39.7
Acrux	173 02.7	S 63 12.9
Gacrux	171 54.4	S 57 13.7
Alioth	166 15.4	N 55 50.2
Spica	158 25.0	S 11 16.4
Alkaid	152 54.1	N 49 12.0
Hadar	148 39.7	S 60 28.4
Menkent	148 00.4	S 36 28.2
Arcturus	145 50.0	N 19 04.7
Rigel Kentaurus	139 41.4	S 60 55.4
Zubenelgenubi	136 58.9	S 16 07.8
Kocab	137 20.5	N 74 03.7
Alphecca	126 06.2	N 26 38.4
Antares	112 19.3	S 26 28.7
Atria	107 16.2	S 69 03.8
Sabik	102 06.0	S 15 45.1
Shaula	96 14.1	S 37 07.1
Rasalhague	96 01.2	N 12 32.7
Etamin	90 43.9	N 51 29.1
Kaus Australis	83 36.2	S 34 22.4
Vega	80 35.4	N 38 48.1
Nunki	75 51.2	S 26 16.2
Albireo	67 06.4	N 28 00.3
Altair	62 02.9	N 08 55.4
Peacock	53 10.2	S 56 40.0
Deneb	49 27.9	N 45 21.6
Enif	33 41.5	N 09 58.5
Alnair	27 36.4	S 46 51.5
Formalhaut	15 17.6	S 29 30.5
Markab	13 32.5	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 6 of 365 January 6 GHA	ddGHA	day 7 of 365 January 7 GHA	ddGHA	day 8 of 365 January 8 GHA	ddGHA	day 9 of 365 January 9 GHA	ddGHA	day 10 of 365 January 10 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	105 33.3	+02.5	106 32.4	+02.5	107 31.6	+02.4	108 30.7	+02.5	109 29.8	+02.5	00
01	120 35.8	+02.4	121 34.9	+02.5	122 34.0	+02.5	123 33.2	+02.4	124 32.3	+02.5	01
02	135 38.2	+02.5	136 37.4	+02.4	137 36.5	+02.5	138 35.6	+02.5	139 34.8	+02.4	02
03	150 40.7	+02.4	151 39.8	+02.5	152 39.0	+02.4	153 38.1	+02.5	154 37.2	+02.5	03
04	165 43.1	+02.5	166 42.3	+02.4	167 41.4	+02.5	168 40.6	+02.4	169 39.7	+02.5	04
05	180 45.6	+02.5	181 44.7	+02.5	182 43.9	+02.5	183 43.0	+02.5	184 42.2	+02.4	05
06	195 48.1	+02.4	196 47.2	+02.5	197 46.4	+02.4	198 45.5	+02.5	199 44.6	+02.5	06
07	210 50.5	+02.5	211 49.7	+02.4	212 48.8	+02.5	213 48.0	+02.4	214 47.1	+02.5	07
08	225 53.0	+02.5	226 52.1	+02.5	227 51.3	+02.4	228 50.4	+02.5	229 49.6	+02.4	08
09	240 55.5	+02.4	241 54.6	+02.5	242 53.7	+02.5	243 52.9	+02.4	244 52.0	+02.5	09
10	255 57.9	+02.5	256 57.1	+02.4	257 56.2	+02.5	258 55.3	+02.5	259 54.5	+02.4	10
11	271 00.4	+02.5	271 59.5	+02.5	272 58.7	+02.4	273 57.8	+02.5	274 56.9	+02.5	11
12	286 02.9	+02.4	287 02.0	+02.5	288 01.1	+02.5	289 00.3	+02.4	289 59.4	+02.5	12
13	301 05.3	+02.5	302 04.5	+02.4	303 03.6	+02.5	304 02.7	+02.5	305 01.9	+02.4	13
14	316 07.8	+02.5	317 06.9	+02.5	318 06.1	+02.4	319 05.2	+02.5	320 04.3	+02.5	14
15	331 10.3	+02.4	332 09.4	+02.5	333 08.5	+02.5	334 07.7	+02.4	335 06.8	+02.5	15
16	346 12.7	+02.5	347 11.9	+02.4	348 11.0	+02.5	349 10.1	+02.5	350 09.3	+02.4	16
17	1 15.2	+02.4	2 14.3	+02.5	3 13.5	+02.4	4 12.6	+02.5	5 11.7	+02.5	17
18	16 17.6	+02.5	17 16.8	+02.4	18 15.9	+02.5	19 15.1	+02.4	20 14.2	+02.5	18
19	31 20.1	+02.5	32 19.2	+02.5	33 18.4	+02.4	34 17.5	+02.5	35 16.7	+02.4	19
20	46 22.6	+02.4	47 21.7	+02.5	48 20.8	+02.5	49 20.0	+02.5	50 19.1	+02.5	20
21	61 25.0	+02.5	62 24.2	+02.4	63 23.3	+02.5	64 22.5	+02.4	65 21.6	+02.5	21
22	76 27.5	+02.5	77 26.6	+02.5	78 25.8	+02.4	79 24.9	+02.5	80 24.1	+02.4	22
23	91 30.0	+02.4	92 29.1	+02.5	93 28.2	+02.5	94 27.4	+02.4	95 26.5	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.4	N 29 12.8
Ankaa	353 09.8	S 42 11.4
Schedir	349 33.9	N 56 39.7
Diphda	348 49.9	S 17 52.2
Achernar	335 22.0	S 57 07.9
Hamal	327 53.9	N 23 34.0
Polaris	314 55.9	N 89 21.7
Acamar	315 13.4	S 40 13.3
Menkar	314 08.5	N 04 10.5
Mirfak	308 31.4	N 49 56.5
Aldebaran	290 42.2	N 16 33.2
Capella	280 25.1	N 46 01.4
Rigel	281 05.9	S 08 10.7
Bellatrix	278 25.2	N 06 22.1
Elnath	278 04.6	N 28 37.6
Alnilam	275 39.9	S 01 11.3
Betelgeuze	270 54.4	N 07 24.6
Canopus	263 52.9	S 52 42.5
Sirius	258 27.9	S 16 44.4
Adhara	255 07.4	S 29 00.1
Castor	245 59.7	N 31 50.4
Procyon	244 52.9	N 05 10.4
Pollux	243 19.6	N 27 58.3
Avior	234 15.1	S 59 34.7
Suhail	222 47.7	S 43 31.1
Miaplacidus	221 37.7	S 69 48.2
Alphard	217 49.9	S 08 45.2
Regulus	207 36.7	N 11 51.5
Dubhe	193 43.7	N 61 37.7
Denebola	182 27.2	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 46.0	S 17 39.7
Acrux	173 02.7	S 63 12.9
Gacrux	171 54.3	S 57 13.7
Alioth	166 15.3	N 55 50.2
Spica	158 24.9	S 11 16.4
Alkaid	152 54.1	N 49 12.0
Hadar	148 39.6	S 60 28.4
Menkent	148 00.3	S 36 28.2
Arcturus	145 49.9	N 19 04.7
Rigel Kentaurus	139 41.3	S 60 55.4
Zubenelgenubi	136 58.9	S 16 07.8
Kocab	137 20.4	N 74 03.6
Alphecca	126 06.1	N 26 38.4
Antares	112 19.3	S 26 28.7
Atria	107 16.1	S 69 03.8
Sabik	102 05.9	S 15 45.1
Shaula	96 14.1	S 37 07.1
Rasalhague	96 01.2	N 12 32.7
Etamin	90 43.9	N 51 29.1
Kaus Australis	83 36.2	S 34 22.4
Vega	80 35.4	N 38 48.1
Nunki	75 51.2	S 26 16.2
Albireo	67 06.4	N 28 00.3
Altair	62 02.9	N 08 55.4
Peacock	53 10.2	S 56 40.0
Deneb	49 27.9	N 45 21.6
Enif	33 41.5	N 09 58.5
Alnair	27 36.4	S 46 51.5
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2022 - First Point of Aries / Selected Stars

UT	day 31 of 365 *January 31* GHA	ddGHA	day 32 of 365 *February 1* GHA	ddGHA	day 33 of 365 *February 2* GHA	ddGHA	day 34 of 365 *February 3* GHA	ddGHA	day 35 of 365 *February 4* GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	130 11.8	+02.4	131 10.9	+02.5	132 10.1	+02.4	133 09.2	+02.5	134 08.3	+02.5	00
01	145 14.2	+02.5	146 13.4	+02.4	147 12.5	+02.5	148 11.7	+02.4	149 10.8	+02.5	01
02	160 16.7	+02.5	161 15.8	+02.5	162 15.0	+02.4	163 14.1	+02.5	164 13.3	+02.4	02
03	175 19.2	+02.4	176 18.3	+02.5	177 17.4	+02.5	178 16.6	+02.4	179 15.7	+02.5	03
04	190 21.6	+02.5	191 20.8	+02.4	192 19.9	+02.5	193 19.0	+02.5	194 18.2	+02.4	04
05	205 24.1	+02.5	206 23.2	+02.5	207 22.4	+02.4	208 21.5	+02.5	209 20.6	+02.5	05
06	220 26.6	+02.4	221 25.7	+02.5	222 24.8	+02.5	223 24.0	+02.4	224 23.1	+02.5	06
07	235 29.0	+02.5	236 28.2	+02.4	237 27.3	+02.5	238 26.4	+02.5	239 25.6	+02.4	07
08	250 31.5	+02.5	251 30.6	+02.5	252 29.8	+02.4	253 28.9	+02.5	254 28.0	+02.5	08
09	265 34.0	+02.4	266 33.1	+02.5	267 32.2	+02.5	268 31.4	+02.4	269 30.5	+02.5	09
10	280 36.4	+02.5	281 35.6	+02.4	282 34.7	+02.5	283 33.8	+02.5	284 33.0	+02.4	10
11	295 38.9	+02.4	296 38.0	+02.5	297 37.2	+02.4	298 36.3	+02.5	299 35.4	+02.5	11
12	310 41.3	+02.5	311 40.5	+02.4	312 39.6	+02.5	313 38.8	+02.4	314 37.9	+02.5	12
13	325 43.8	+02.5	326 42.9	+02.5	327 42.1	+02.5	328 41.2	+02.5	329 40.4	+02.4	13
14	340 46.3	+02.4	341 45.4	+02.5	342 44.6	+02.4	343 43.7	+02.5	344 42.8	+02.5	14
15	355 48.7	+02.5	356 47.9	+02.4	357 47.0	+02.5	358 46.2	+02.4	359 45.3	+02.5	15
16	10 51.2	+02.5	11 50.3	+02.5	12 49.5	+02.4	13 48.6	+02.5	14 47.8	+02.4	16
17	25 53.7	+02.4	26 52.8	+02.5	27 51.9	+02.5	28 51.1	+02.4	29 50.2	+02.5	17
18	40 56.1	+02.5	41 55.3	+02.4	42 54.4	+02.5	43 53.5	+02.5	44 52.7	+02.4	18
19	55 58.6	+02.5	56 57.7	+02.5	57 56.9	+02.4	58 56.0	+02.5	59 55.1	+02.5	19
20	71 01.1	+02.4	72 00.2	+02.5	72 59.3	+02.5	73 58.5	+02.4	74 57.6	+02.5	20
21	86 03.5	+02.5	87 02.7	+02.4	88 01.8	+02.5	89 00.9	+02.5	90 00.1	+02.4	21
22	101 06.0	+02.4	102 05.1	+02.5	103 04.3	+02.4	104 03.4	+02.5	105 02.5	+02.5	22
23	116 08.4	+02.5	117 07.6	+02.5	118 06.7	+02.5	119 05.9	+02.4	120 05.0	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.8	Gienah	175 45.8	S 17 39.8
Ankaa	353 09.9	S 42 11.4	*Acrux*	173 02.3	S 63 13.0
Schedir	349 34.0	N 56 39.6	*Gacrux*	171 54.0	S 57 13.8
Diphda	348 50.0	S 17 52.2	*Alioth*	166 15.0	N 55 50.2
Achernar	335 22.2	S 57 07.9	Spica	158 24.7	S 11 16.5
Hamal	327 54.0	N 23 34.0	*Alkaid*	152 53.8	N 49 12.0
Polaris	315 06.8	N 89 21.7	*Hadar*	148 39.3	S 60 28.4
Acamar	315 13.5	S 40 13.3	*Menkent*	148 00.1	S 36 28.2
Menkar	314 08.6	N 04 10.5	Arcturus	145 49.7	N 19 04.6
Mirfak	308 31.6	N 49 56.5	*Rigel Kentaurus*	139 41.0	S 60 55.4
Aldebaran	290 42.2	N 16 33.2	Zubenelgenubi	136 58.6	S 16 07.9
Capella	280 25.1	N 46 01.4	*Kocab*	137 19.9	N 74 03.6
Rigel	281 06.0	S 08 10.7	Alphecca	126 05.9	N 26 38.3
Bellatrix	278 25.2	N 06 22.1	Antares	112 19.1	S 26 28.7
Elnath	278 04.6	N 28 37.6	*Atria*	107 15.7	S 69 03.7
Alnilam	275 39.9	S 01 11.4	Sabik	102 05.8	S 15 45.1
Betelgeuze	270 54.4	N 07 24.6	*Shaula*	96 13.9	S 37 07.1
Canopus	263 53.0	S 52 42.6	Rasalhague	96 01.0	N 12 32.6
Sirius	258 27.9	S 16 44.5	*Etamin*	90 43.7	N 51 28.9
Adhara	255 07.4	S 29 00.2	*Kaus Australis*	83 36.0	S 34 22.3
Castor	245 59.7	N 31 50.4	*Vega*	80 35.3	N 38 48.0
Procyon	244 52.8	N 05 10.4	Nunki	75 51.1	S 26 16.1
Pollux	243 19.5	N 27 58.4	Albireo	67 06.3	N 28 00.2
Avior	234 15.0	S 59 34.8	Altair	62 02.8	N 08 55.3
Suhail	222 47.6	S 43 31.3	*Peacock*	53 10.1	S 56 39.9
Miaplacidus	221 37.6	S 69 48.4	*Deneb*	49 27.9	N 45 21.4
Alphard	217 49.8	S 08 45.3	Enif	33 41.5	N 09 58.4
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.5	S 46 51.4
Dubhe	193 43.4	N 61 37.8	Formalhaut	15 17.6	S 29 30.5
Denebola	182 27.0	N 14 26.9	Markab	13 32.6	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 16 of 365 *January 16* GHA	ddGHA	day 17 of 365 *January 17* GHA	ddGHA	day 18 of 365 *January 18* GHA	ddGHA	day 19 of 365 *January 19* GHA	ddGHA	day 20 of 365 *January 20* GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	115 24.7	+02.4	116 23.8	+02.5	117 23.0	+02.4	118 22.1	+02.5	119 21.2	+02.5	00
01	130 27.1	+02.5	131 26.3	+02.4	132 25.4	+02.5	133 24.6	+02.4	134 23.7	+02.5	01
02	145 29.6	+02.5	146 28.7	+02.5	147 27.9	+02.5	148 27.0	+02.5	149 26.2	+02.4	02
03	160 32.1	+02.4	161 31.2	+02.5	162 30.4	+02.4	163 29.5	+02.5	164 28.6	+02.5	03
04	175 34.5	+02.5	176 33.7	+02.4	177 32.8	+02.5	178 32.0	+02.4	179 31.1	+02.5	04
05	190 37.0	+02.5	191 36.1	+02.5	192 35.3	+02.4	193 34.4	+02.5	194 33.6	+02.4	05
06	205 39.5	+02.4	206 38.6	+02.5	207 37.7	+02.5	208 36.9	+02.5	209 36.0	+02.5	06
07	220 41.9	+02.5	221 41.1	+02.4	222 40.2	+02.5	223 39.4	+02.4	224 38.5	+02.5	07
08	235 44.4	+02.5	236 43.5	+02.5	237 42.7	+02.4	238 41.8	+02.5	239 41.0	+02.4	08
09	250 46.9	+02.4	251 46.0	+02.5	252 45.1	+02.5	253 44.3	+02.4	254 43.4	+02.5	09
10	265 49.3	+02.5	266 48.5	+02.4	267 47.6	+02.5	268 46.7	+02.5	269 45.9	+02.4	10
11	280 51.8	+02.5	281 50.9	+02.5	282 50.1	+02.4	283 49.2	+02.5	284 48.3	+02.5	11
12	295 54.3	+02.4	296 53.4	+02.5	297 52.5	+02.5	298 51.7	+02.4	299 50.8	+02.5	12
13	310 56.7	+02.5	311 55.9	+02.4	312 55.0	+02.5	313 54.1	+02.5	314 53.3	+02.4	13
14	325 59.2	+02.4	326 58.3	+02.5	327 57.5	+02.4	328 56.6	+02.5	329 55.7	+02.5	14
15	341 01.6	+02.5	342 00.8	+02.4	342 59.9	+02.5	343 59.1	+02.4	344 58.2	+02.5	15
16	356 04.1	+02.5	357 03.2	+02.5	358 02.4	+02.5	359 01.5	+02.5	0 00.7	+02.4	16
17	11 06.6	+02.4	12 05.7	+02.5	13 04.9	+02.4	14 04.0	+02.5	15 03.1	+02.5	17
18	26 09.0	+02.5	27 08.2	+02.4	28 07.3	+02.5	29 06.5	+02.4	30 05.6	+02.5	18
19	41 11.5	+02.5	42 10.6	+02.5	43 09.8	+02.4	44 08.9	+02.5	45 08.1	+02.4	19
20	56 14.0	+02.4	57 13.1	+02.5	58 12.2	+02.5	59 11.4	+02.4	60 10.5	+02.5	20
21	71 16.4	+02.5	72 15.6	+02.4	73 14.7	+02.5	74 13.8	+02.5	75 13.0	+02.5	21
22	86 18.9	+02.5	87 18.0	+02.5	88 17.2	+02.4	89 16.3	+02.5	90 15.5	+02.4	22
23	101 21.4	+02.4	102 20.5	+02.5	103 19.6	+02.5	104 18.8	+02.4	105 17.9	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.8	Gienah	175 45.9	S 17 39.7
Ankaa	353 09.8	S 42 11.4	*Acrux*	173 02.5	S 63 12.9
Schedir	349 33.9	N 56 39.7	*Gacrux*	171 54.2	S 57 13.8
Diphda	348 49.9	S 17 52.2	*Alioth*	166 15.2	N 55 50.2
Achernar	335 22.1	S 57 07.9	Spica	158 24.8	S 11 16.5
Hamal	327 53.9	N 23 34.0	*Alkaid*	152 54.0	N 49 12.0
Polaris	314 60.0	N 89 21.7	*Hadar*	148 39.5	S 60 28.4
Acamar	315 13.5	S 40 13.3	*Menkent*	148 00.2	S 36 28.2
Menkar	314 08.6	N 04 10.5	Arcturus	145 49.9	N 19 04.7
Mirfak	308 31.5	N 49 56.5	*Rigel Kentaurus*	139 41.2	S 60 55.4
Aldebaran	290 42.2	N 16 33.2	Zubenelgenubi	136 58.8	S 16 07.8
Capella	280 25.1	N 46 01.4	*Kocab*	137 20.2	N 74 03.6
Rigel	281 05.9	S 08 10.7	Alphecca	126 06.1	N 26 38.3
Bellatrix	278 25.2	N 06 22.1	Antares	112 19.2	S 26 28.7
Elnath	278 04.6	N 28 37.6	*Atria*	107 16.0	S 69 03.7
Alnilam	275 39.9	S 01 11.4	Sabik	102 05.9	S 15 45.1
Betelgeuze	270 54.4	N 07 24.6	*Shaula*	96 14.0	S 37 07.1
Canopus	263 52.9	S 52 42.6	Rasalhague	96 01.1	N 12 32.7
Sirius	258 27.9	S 16 44.4	*Etamin*	90 43.8	N 51 29.0
Adhara	255 07.4	S 29 00.2	*Kaus Australis*	83 36.1	S 34 22.4
Castor	245 59.7	N 31 50.4	*Vega*	80 35.4	N 38 48.0
Procyon	244 52.8	N 05 10.4	Nunki	75 51.2	S 26 16.1
Pollux	243 19.6	N 27 58.3	Albireo	67 06.4	N 28 00.3
Avior	234 15.0	S 59 34.7	Altair	62 02.8	N 08 55.4
Suhail	222 47.6	S 43 31.2	*Peacock*	53 10.2	S 56 39.9
Miaplacidus	221 37.6	S 69 48.3	*Deneb*	49 27.9	N 45 21.5
Alphard	217 49.8	S 08 45.2	Enif	33 41.5	N 09 58.5
Regulus	207 36.7	N 11 51.5	*Alnair*	27 36.5	S 46 51.5
Dubhe	193 43.5	N 61 37.7	Formalhaut	15 17.6	S 29 30.5
Denebola	182 27.1	N 14 26.9	Markab	13 32.5	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 21 of 365 January 21 GHA	ddGHA	day 22 of 365 January 22 GHA	ddGHA	day 23 of 365 January 23 GHA	ddGHA	day 24 of 365 January 24 GHA	ddGHA	day 25 of 365 January 25 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	120 20.4	+02.4	121 19.5	+02.5	122 18.7	+02.4	123 17.8	+02.5	124 16.9	+02.5	00
01	135 22.8	+02.5	136 22.0	+02.4	137 21.1	+02.5	138 20.3	+02.4	139 19.4	+02.5	01
02	150 25.3	+02.5	151 24.4	+02.5	152 23.6	+02.4	153 22.7	+02.5	154 21.9	+02.4	02
03	165 27.8	+02.4	166 26.9	+02.5	167 26.0	+02.5	168 25.2	+02.4	169 24.3	+02.5	03
04	180 30.2	+02.5	181 29.4	+02.4	182 28.5	+02.5	183 27.6	+02.5	184 26.8	+02.5	04
05	195 32.7	+02.5	196 31.8	+02.5	197 31.0	+02.4	198 30.1	+02.5	199 29.3	+02.4	05
06	210 35.2	+02.4	211 34.3	+02.5	212 33.4	+02.5	213 32.6	+02.4	214 31.7	+02.5	06
07	225 37.6	+02.5	226 36.8	+02.4	227 35.9	+02.5	228 35.0	+02.5	229 34.2	+02.4	07
08	240 40.1	+02.5	241 39.2	+02.5	242 38.4	+02.4	243 37.5	+02.5	244 36.6	+02.5	08
09	255 42.6	+02.4	256 41.7	+02.5	257 40.8	+02.5	258 40.0	+02.4	259 39.1	+02.5	09
10	270 45.0	+02.5	271 44.2	+02.4	272 43.3	+02.5	273 42.4	+02.5	274 41.6	+02.4	10
11	285 47.5	+02.4	286 46.6	+02.5	287 45.8	+02.4	288 44.9	+02.5	289 44.0	+02.5	11
12	300 49.9	+02.5	301 49.1	+02.5	302 48.2	+02.5	303 47.4	+02.4	304 46.5	+02.5	12
13	315 52.4	+02.5	316 51.6	+02.4	317 50.7	+02.5	318 49.8	+02.5	319 49.0	+02.4	13
14	330 54.9	+02.4	331 54.0	+02.5	332 53.2	+02.4	333 52.3	+02.5	334 51.4	+02.5	14
15	345 57.3	+02.5	346 56.5	+02.4	347 55.6	+02.5	348 54.8	+02.4	349 53.9	+02.5	15
16	0 59.8	+02.5	1 58.9	+02.5	2 58.1	+02.4	3 57.2	+02.5	4 56.4	+02.4	16
17	16 02.3	+02.4	17 01.4	+02.5	18 00.5	+02.5	18 59.7	+02.4	19 58.8	+02.5	17
18	31 04.7	+02.5	32 03.9	+02.4	33 03.0	+02.5	34 02.1	+02.5	35 01.3	+02.4	18
19	46 07.2	+02.5	47 06.3	+02.5	48 05.5	+02.4	49 04.6	+02.5	50 03.7	+02.5	19
20	61 09.7	+02.4	62 08.8	+02.5	63 07.9	+02.5	64 07.1	+02.4	65 06.2	+02.5	20
21	76 12.1	+02.5	77 11.3	+02.4	78 10.4	+02.5	79 09.5	+02.5	80 08.7	+02.4	21
22	91 14.6	+02.5	92 13.7	+02.5	93 12.9	+02.4	94 12.0	+02.5	95 11.1	+02.5	22
23	106 17.1	+02.4	107 16.2	+02.5	108 15.3	+02.5	109 14.5	+02.4	110 13.6	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.8	Gienah	175 45.9	S 17 39.8
Ankaa	353 09.8	S 42 11.4	*Acrux*	173 02.4	S 63 12.9
Schedir	349 34.0	N 56 39.6	*Gacrux*	171 54.1	S 57 13.8
Diphda	348 49.9	S 17 52.2	*Alioth*	166 15.1	N 55 50.2
Achernar	335 22.1	S 57 07.9	Spica	158 24.8	S 11 16.5
Hamal	327 54.0	N 23 34.0	*Alkaid*	152 53.9	N 49 12.0
Polaris	315 02.3	N 89 21.7	*Hadar*	148 39.4	S 60 28.4
Acamar	315 13.5	S 40 13.3	*Menkent*	148 00.2	S 36 28.2
Menkar	314 08.6	N 04 10.5	Arcturus	145 49.8	N 19 04.7
Mirfak	308 31.5	N 49 56.5	*Rigel Kentaurus*	139 41.1	S 60 55.4
Aldebaran	290 42.2	N 16 33.2	Zubenelgenubi	136 58.7	S 16 07.9
Capella	280 25.1	N 46 01.4	*Kocab*	137 20.1	N 74 03.6
Rigel	281 05.9	S 08 10.7	Alphecca	126 06.0	N 26 38.3
Bellatrix	278 25.2	N 06 22.1	Antares	112 19.2	S 26 28.7
Elnath	278 04.6	N 28 37.6	*Atria*	107 15.9	S 69 03.7
Alnilam	275 39.9	S 01 11.4	Sabik	102 05.8	S 15 45.1
Betelgeuze	270 54.4	N 07 24.6	*Shaula*	96 14.0	S 37 07.1
Canopus	263 53.0	S 52 42.6	Rasalhague	96 01.1	N 12 32.6
Sirius	258 27.9	S 16 44.4	*Etamin*	90 43.8	N 51 29.0
Adhara	255 07.4	S 29 00.2	*Kaus Australis*	83 36.1	S 34 22.4
Castor	245 59.7	N 31 50.4	*Vega*	80 35.3	N 38 48.0
Procyon	244 52.8	N 05 10.4	Nunki	75 51.1	S 26 16.1
Pollux	243 19.6	N 27 58.3	Albireo	67 06.4	N 28 00.2
Avior	234 15.0	S 59 34.8	Altair	62 02.8	N 08 55.4
Suhail	222 47.6	S 43 31.2	*Peacock*	53 10.2	S 56 39.9
Miaplacidus	221 37.6	S 69 48.3	*Deneb*	49 27.9	N 45 21.5
Alphard	217 49.8	S 08 45.3	Enif	33 41.5	N 09 58.5
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.5	S 46 51.4
Dubhe	193 43.5	N 61 37.7	Formalhaut	15 17.6	S 29 30.5
Denebola	182 27.1	N 14 26.9	Markab	13 32.6	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 26 of 365 January 26 GHA	ddGHA	day 27 of 365 January 27 GHA	ddGHA	day 28 of 365 January 28 GHA	ddGHA	day 29 of 365 January 29 GHA	ddGHA	day 30 of 365 January 30 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	125 16.1	+02.4	126 15.2	+02.5	127 14.3	+02.5	128 13.5	+02.5	129 12.6	+02.5	00
01	140 18.5	+02.5	141 17.7	+02.4	142 16.8	+02.5	143 16.0	+02.4	144 15.1	+02.5	01
02	155 21.0	+02.5	156 20.1	+02.5	157 19.3	+02.4	158 18.4	+02.5	159 17.6	+02.4	02
03	170 23.5	+02.4	171 22.6	+02.5	172 21.7	+02.5	173 20.9	+02.4	174 20.0	+02.5	03
04	185 25.9	+02.5	186 25.1	+02.4	187 24.2	+02.5	188 23.3	+02.5	189 22.5	+02.5	04
05	200 28.4	+02.5	201 27.5	+02.5	202 26.7	+02.4	203 25.8	+02.5	204 25.0	+02.4	05
06	215 30.9	+02.4	216 30.0	+02.5	217 29.1	+02.5	218 28.3	+02.4	219 27.4	+02.5	06
07	230 33.3	+02.5	231 32.5	+02.4	232 31.6	+02.5	233 30.7	+02.5	234 29.9	+02.4	07
08	245 35.8	+02.4	246 34.9	+02.5	247 34.1	+02.4	248 33.2	+02.5	249 32.3	+02.5	08
09	260 38.2	+02.5	261 37.4	+02.4	262 36.5	+02.5	263 35.7	+02.4	264 34.8	+02.5	09
10	275 40.7	+02.5	276 39.8	+02.5	277 39.0	+02.5	278 38.1	+02.5	279 37.3	+02.4	10
11	290 43.2	+02.4	291 42.3	+02.5	292 41.5	+02.4	293 40.6	+02.5	294 39.7	+02.5	11
12	305 45.6	+02.5	306 44.8	+02.4	307 43.9	+02.5	308 43.1	+02.4	309 42.2	+02.5	12
13	320 48.1	+02.5	321 47.2	+02.5	322 46.4	+02.4	323 45.5	+02.5	324 44.7	+02.4	13
14	335 50.6	+02.4	336 49.7	+02.5	337 48.8	+02.5	338 48.0	+02.5	339 47.1	+02.5	14
15	350 53.0	+02.5	351 52.2	+02.4	352 51.3	+02.5	353 50.5	+02.4	354 49.6	+02.5	15
16	5 55.5	+02.5	6 54.6	+02.5	7 53.8	+02.4	8 52.9	+02.5	9 52.1	+02.4	16
17	20 58.0	+02.4	21 57.1	+02.5	22 56.2	+02.5	23 55.4	+02.4	24 54.5	+02.5	17
18	36 00.4	+02.5	36 59.6	+02.4	37 58.7	+02.5	38 57.8	+02.5	39 57.0	+02.5	18
19	51 02.9	+02.5	52 02.0	+02.5	53 01.2	+02.4	54 00.3	+02.5	54 59.5	+02.4	19
20	66 05.4	+02.4	67 04.5	+02.5	68 03.6	+02.5	69 02.8	+02.4	70 01.9	+02.5	20
21	81 07.8	+02.5	82 07.0	+02.4	83 06.1	+02.5	84 05.2	+02.5	85 04.4	+02.4	21
22	96 10.3	+02.4	97 09.4	+02.5	98 08.6	+02.4	99 07.7	+02.5	100 06.8	+02.5	22
23	111 12.7	+02.5	112 11.9	+02.4	113 11.0	+02.5	114 10.2	+02.4	115 09.3	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.8	Gienah	175 45.8	S 17 39.8
Ankaa	353 09.9	S 42 11.4	*Acrux*	173 02.4	S 63 13.0
Schedir	349 34.0	N 56 39.6	*Gacrux*	171 54.1	S 57 13.8
Diphda	348 49.9	S 17 52.2	*Alioth*	166 15.1	N 55 50.2
Achernar	335 22.2	S 57 07.9	Spica	158 24.8	S 11 16.5
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Aldebaran	290 42.2	N 16 33.2	Zubenelgenubi	136 58.7	S 16 07.9
Capella	280 25.1	N 46 01.4	*Kocab*	137 20.0	N 74 03.6
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Alnilam	275 39.9	S 01 11.4	Sabik	102 05.8	S 15 45.1
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Canopus	263 53.0	S 52 42.6	Rasalhague	96 01.1	N 12 32.6
Sirius	258 27.9	S 16 44.5	*Etamin*	90 43.7	N 51 29.0
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Procyon	244 52.8	N 05 10.4	Nunki	75 51.1	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 06.4	N 28 00.2
Avior	234 15.0	S 59 34.8	Altair	62 02.8	N 08 55.3
Suhail	222 47.6	S 43 31.2	*Peacock*	53 10.2	S 56 39.9
Miaplacidus	221 37.6	S 69 48.4	*Deneb*	49 27.9	N 45 21.5
Alphard	217 49.8	S 08 45.3	Enif	33 41.5	N 09 58.5
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.5	S 46 51.4
Dubhe	193 43.4	N 61 37.8	Formalhaut	15 17.6	S 29 30.5
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2022 - First Point of Aries / Selected Stars

UT	day 51 of 365 February 20 GHA ° ′	ddGHA ′	day 52 of 365 February 21 GHA ° ′	ddGHA ′	day 53 of 365 February 22 GHA ° ′	ddGHA ′	day 54 of 365 February 23 GHA ° ′	ddGHA ′	day 55 of 365 February 24 GHA ° ′	ddGHA ′	UT
00	149 54.5	+02.5	150 53.7	+02.4	151 52.8	+02.5	152 52.0	+02.4	153 51.1	+02.5	00
01	164 57.0	+02.5	165 56.1	+02.5	166 55.3	+02.4	167 54.4	+02.5	168 53.6	+02.4	01
02	179 59.5	+02.4	180 58.6	+02.5	181 57.7	+02.5	182 56.9	+02.4	183 56.0	+02.5	02
03	195 01.9	+02.5	196 01.1	+02.4	197 00.2	+02.5	197 59.3	+02.5	198 58.5	+02.5	03
04	210 04.4	+02.5	211 03.5	+02.5	212 02.7	+02.4	213 01.8	+02.5	214 01.0	+02.4	04
05	225 06.9	+02.4	226 06.0	+02.5	227 05.1	+02.5	228 04.3	+02.4	229 03.4	+02.5	05
06	240 09.3	+02.5	241 08.5	+02.4	242 07.6	+02.5	243 06.7	+02.5	244 05.9	+02.4	06
07	255 11.8	+02.5	256 10.9	+02.5	257 10.1	+02.4	258 09.2	+02.5	259 08.3	+02.5	07
08	270 14.3	+02.4	271 13.4	+02.5	272 12.5	+02.5	273 11.7	+02.4	274 10.8	+02.5	08
09	285 16.7	+02.5	286 15.9	+02.4	287 15.0	+02.5	288 14.1	+02.5	289 13.3	+02.4	09
10	300 19.2	+02.4	301 18.3	+02.5	302 17.5	+02.4	303 16.6	+02.5	304 15.7	+02.5	10
11	315 21.6	+02.5	316 20.8	+02.5	317 19.9	+02.5	318 19.1	+02.4	319 18.2	+02.5	11
12	330 24.1	+02.5	331 23.3	+02.4	332 22.4	+02.5	333 21.5	+02.5	334 20.7	+02.4	12
13	345 26.6	+02.4	346 25.7	+02.5	347 24.9	+02.4	348 24.0	+02.5	349 23.1	+02.5	13
14	0 29.0	+02.5	1 28.2	+02.4	2 27.3	+02.5	3 26.5	+02.4	4 25.6	+02.5	14
15	15 31.5	+02.5	16 30.6	+02.5	17 29.8	+02.4	18 28.9	+02.5	19 28.1	+02.4	15
16	30 34.0	+02.4	31 33.1	+02.5	32 32.2	+02.5	33 31.4	+02.4	34 30.5	+02.5	16
17	45 36.4	+02.5	46 35.6	+02.4	47 34.7	+02.5	48 33.8	+02.5	49 33.0	+02.5	17
18	60 38.9	+02.5	61 38.0	+02.5	62 37.2	+02.4	63 36.3	+02.5	64 35.5	+02.4	18
19	75 41.4	+02.4	76 40.5	+02.5	77 39.6	+02.5	78 38.8	+02.4	79 37.9	+02.5	19
20	90 43.8	+02.5	91 43.0	+02.4	92 42.1	+02.5	93 41.2	+02.5	94 40.4	+02.4	20
21	105 46.3	+02.5	106 45.4	+02.5	107 44.6	+02.4	108 43.7	+02.5	109 42.8	+02.5	21
22	120 48.8	+02.4	121 47.9	+02.5	122 47.0	+02.5	123 46.2	+02.4	124 45.3	+02.5	22
23	135 51.2	+02.5	136 50.4	+02.4	137 49.5	+02.5	138 48.6	+02.5	139 47.8	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.7	Gienah	175 45.7	S 17 39.9
Ankaa	353 09.9	S 42 11.3	*Acrux*	173 02.1	S 63 13.1
Schedir	349 34.2	N 56 39.6	*Gacrux*	171 53.8	S 57 13.9
Diphda	348 50.0	S 17 52.2	*Alioth*	166 14.8	N 55 50.2
Achernar	335 22.4	S 57 07.8	Spica	158 24.6	S 11 16.6
Hamal	327 54.1	N 23 34.0	*Alkaid*	152 53.6	N 49 12.0
Polaris	315 16.8	N 89 21.7	*Hadar*	148 39.0	S 60 28.5
Acamar	315 13.7	S 40 13.3	*Menkent*	147 59.9	S 36 28.3
Menkar	314 08.7	N 04 10.5	Arcturus	145 49.6	N 19 04.6
Mirfak	308 31.7	N 49 56.5	*Rigel Kentaurus*	139 40.7	S 60 55.5
Aldebaran	290 42.3	N 16 33.2	Zubenelgenubi	136 58.5	S 16 07.9
Capella	280 25.2	N 46 01.4	*Kocab*	137 19.5	N 74 03.6
Rigel	281 06.0	S 08 10.7	Alphecca	126 05.8	N 26 38.2
Bellatrix	278 25.3	N 06 22.1	Antares	112 18.9	S 26 28.8
Elnath	278 04.7	N 28 37.6	*Atria*	107 15.3	S 69 03.7
Alnilam	275 40.0	S 01 11.4	Sabik	102 05.6	S 15 45.2
Betelgeuze	270 54.5	N 07 24.6	*Shaula*	96 13.7	S 37 07.1
Canopus	263 53.1	S 52 42.7	Rasalhague	96 00.9	N 12 32.5
Sirius	258 27.9	S 16 44.5	*Etamin*	90 43.5	N 51 28.8
Adhara	255 07.4	S 29 00.3	*Kaus Australis*	83 35.9	S 34 22.3
Castor	245 59.7	N 31 50.4	*Vega*	80 35.2	N 38 47.9
Procyon	244 52.8	N 05 10.4	Nunki	75 50.9	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 06.3	N 28 00.1
Avior	234 15.1	S 59 34.9	Altair	62 02.7	N 08 55.3
Suhail	222 47.6	S 43 31.4	*Peacock*	53 10.0	S 56 39.8
Miaplacidus	221 37.6	S 69 48.5	*Deneb*	49 27.8	N 45 21.3
Alphard	217 49.7	S 08 45.3	Enif	33 41.4	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.4	S 46 51.3
Dubhe	193 43.2	N 61 37.8	Formalhaut	15 17.6	S 29 30.5
Denebola	182 26.9	N 14 26.9	Markab	13 32.6	N 15 19.3

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UT	day 36 of 365 February 5 GHA ° ′	ddGHA ′	day 37 of 365 February 6 GHA ° ′	ddGHA ′	day 38 of 365 February 7 GHA ° ′	ddGHA ′	day 39 of 365 February 8 GHA ° ′	ddGHA ′	day 40 of 365 February 9 GHA ° ′	ddGHA ′	UT
00	135 07.5	+02.4	136 06.6	+02.5	137 05.7	+02.5	138 04.9	+02.4	139 04.0	+02.5	00
01	150 09.9	+02.5	151 09.1	+02.4	152 08.2	+02.5	153 07.3	+02.5	154 06.5	+02.4	01
02	165 12.4	+02.5	166 11.5	+02.5	167 10.7	+02.4	168 09.8	+02.5	169 08.9	+02.5	02
03	180 14.9	+02.4	181 14.0	+02.5	182 13.1	+02.5	183 12.3	+02.4	184 11.4	+02.5	03
04	195 17.3	+02.5	196 16.5	+02.4	197 15.6	+02.5	198 14.7	+02.5	199 13.9	+02.4	04
05	210 19.8	+02.5	211 18.9	+02.5	212 18.1	+02.4	213 17.2	+02.5	214 16.3	+02.5	05
06	225 22.3	+02.4	226 21.4	+02.5	227 20.5	+02.5	228 19.7	+02.4	229 18.8	+02.5	06
07	240 24.7	+02.5	241 23.9	+02.4	242 23.0	+02.5	243 22.1	+02.5	244 21.3	+02.4	07
08	255 27.2	+02.4	256 26.3	+02.5	257 25.5	+02.4	258 24.6	+02.5	259 23.7	+02.5	08
09	270 29.6	+02.5	271 28.8	+02.4	272 27.9	+02.5	273 27.1	+02.4	274 26.2	+02.5	09
10	285 32.1	+02.5	286 31.2	+02.5	287 30.4	+02.4	288 29.5	+02.5	289 28.7	+02.4	10
11	300 34.6	+02.4	301 33.7	+02.5	302 32.8	+02.5	303 32.0	+02.4	304 31.1	+02.5	11
12	315 37.0	+02.5	316 36.2	+02.4	317 35.3	+02.5	318 34.4	+02.5	319 33.6	+02.5	12
13	330 39.5	+02.5	331 38.6	+02.5	332 37.8	+02.4	333 36.9	+02.5	334 36.1	+02.4	13
14	345 42.0	+02.4	346 41.1	+02.5	347 40.2	+02.5	348 39.4	+02.4	349 38.5	+02.5	14
15	0 44.4	+02.5	1 43.6	+02.4	2 42.7	+02.5	3 41.8	+02.5	4 41.0	+02.4	15
16	15 46.9	+02.5	16 46.0	+02.5	17 45.2	+02.4	18 44.3	+02.5	19 43.4	+02.5	16
17	30 49.4	+02.4	31 48.5	+02.5	32 47.6	+02.5	33 46.8	+02.4	34 45.9	+02.5	17
18	45 51.8	+02.5	46 51.0	+02.4	47 50.1	+02.5	48 49.2	+02.5	49 48.4	+02.4	18
19	60 54.3	+02.4	61 53.4	+02.5	62 52.6	+02.4	63 51.7	+02.5	64 50.8	+02.5	19
20	75 56.7	+02.5	76 55.9	+02.4	77 55.0	+02.5	78 54.2	+02.4	79 53.3	+02.5	20
21	90 59.2	+02.5	91 58.3	+02.5	92 57.5	+02.5	93 56.6	+02.5	94 55.8	+02.4	21
22	106 01.7	+02.4	107 00.8	+02.5	107 60.0	+02.4	108 59.1	+02.5	109 58.2	+02.5	22
23	121 04.1	+02.5	122 03.3	+02.4	123 02.4	+02.5	124 01.6	+02.4	125 00.7	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.8	Gienah	175 45.8	S 17 39.8
Ankaa	353 09.9	S 42 11.4	*Acrux*	173 02.3	S 63 13.0
Schedir	349 34.1	N 56 39.6	*Gacrux*	171 53.9	S 57 13.9
Diphda	348 50.0	S 17 52.2	*Alioth*	166 14.9	N 55 50.2
Achernar	335 22.3	S 57 07.9	Spica	158 24.7	S 11 16.5
Hamal	327 54.0	N 23 34.0	*Alkaid*	152 53.7	N 49 12.0
Polaris	315 09.5	N 89 21.7	*Hadar*	148 39.2	S 60 28.4
Acamar	315 13.6	S 40 13.3	*Menkent*	148 00.0	S 36 28.3
Menkar	314 08.6	N 04 10.5	Arcturus	145 49.7	N 19 04.6
Mirfak	308 31.6	N 49 56.5	*Rigel Kentaurus*	139 40.9	S 60 55.4
Aldebaran	290 42.2	N 16 33.2	Zubenelgenubi	136 58.6	S 16 07.9
Capella	280 25.2	N 46 01.4	*Kocab*	137 19.8	N 74 03.6
Rigel	281 06.0	S 08 10.7	Alphecca	126 05.9	N 26 38.3
Bellatrix	278 25.2	N 06 22.1	Antares	112 19.0	S 26 28.7
Elnath	278 04.7	N 28 37.6	*Atria*	107 15.6	S 69 03.7
Alnilam	275 39.9	S 01 11.4	Sabik	102 05.7	S 15 45.1
Betelgeuze	270 54.4	N 07 24.6	*Shaula*	96 13.9	S 37 07.1
Canopus	263 53.0	S 52 42.6	Rasalhague	96 01.0	N 12 32.6
Sirius	258 27.9	S 16 44.5	*Etamin*	90 43.7	N 51 28.9
Adhara	255 07.4	S 29 00.3	*Kaus Australis*	83 36.0	S 34 22.3
Castor	245 59.7	N 31 50.4	*Vega*	80 35.3	N 38 47.9
Procyon	244 52.8	N 05 10.4	Nunki	75 51.0	S 26 16.1
Pollux	243 19.5	N 27 58.4	Albireo	67 06.3	N 28 00.2
Avior	234 15.0	S 59 34.9	Altair	62 02.8	N 08 55.3
Suhail	222 47.6	S 43 31.3	*Peacock*	53 10.1	S 56 39.8
Miaplacidus	221 37.6	S 69 48.4	*Deneb*	49 27.9	N 45 21.4
Alphard	217 49.8	S 08 45.3	Enif	33 41.5	N 09 58.4
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.4	S 46 51.4
Dubhe	193 43.3	N 61 37.8	Formalhaut	15 17.6	S 29 30.5
Denebola	182 27.0	N 14 26.9	Markab	13 32.6	N 15 19.3

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UT	day 41 of 365 February 10 GHA ° ′	ddGHA ′	day 42 of 365 February 11 GHA ° ′	ddGHA ′	day 43 of 365 February 12 GHA ° ′	ddGHA ′	day 44 of 365 February 13 GHA ° ′	ddGHA ′	day 45 of 365 February 14 GHA ° ′	ddGHA ′	UT
00	140 03.2	+02.4	141 02.3	+02.5	142 01.4	+02.5	143 00.6	+02.4	143 59.7	+02.5	00
01	155 05.6	+02.5	156 04.8	+02.4	157 03.9	+02.5	158 03.0	+02.5	159 02.2	+02.4	01
02	170 08.1	+02.4	171 07.2	+02.5	172 06.4	+02.4	173 05.5	+02.5	174 04.6	+02.5	02
03	185 10.5	+02.5	186 09.7	+02.5	187 08.8	+02.5	188 08.0	+02.4	189 07.1	+02.5	03
04	200 13.0	+02.5	201 12.2	+02.4	202 11.3	+02.5	203 10.4	+02.5	204 09.6	+02.4	04
05	215 15.5	+02.4	216 14.6	+02.5	217 13.8	+02.4	218 12.9	+02.5	219 12.0	+02.5	05
06	230 17.9	+02.5	231 17.1	+02.4	232 16.2	+02.5	233 15.4	+02.4	234 14.5	+02.5	06
07	245 20.4	+02.5	246 19.5	+02.5	247 18.7	+02.4	248 17.8	+02.5	249 17.0	+02.4	07
08	260 22.9	+02.4	261 22.0	+02.5	262 21.1	+02.5	263 20.3	+02.5	264 19.4	+02.5	08
09	275 25.3	+02.5	276 24.5	+02.4	277 23.6	+02.5	278 22.8	+02.4	279 21.9	+02.5	09
10	290 27.8	+02.5	291 26.9	+02.5	292 26.1	+02.4	293 25.2	+02.5	294 24.4	+02.4	10
11	305 30.3	+02.4	306 29.4	+02.5	307 28.5	+02.5	308 27.7	+02.4	309 26.8	+02.5	11
12	320 32.7	+02.5	321 31.9	+02.4	322 31.0	+02.5	323 30.1	+02.5	324 29.3	+02.5	12
13	335 35.2	+02.5	336 34.3	+02.5	337 33.5	+02.4	338 32.6	+02.5	339 31.8	+02.4	13
14	350 37.7	+02.4	351 36.8	+02.5	352 35.9	+02.5	353 35.1	+02.4	354 34.2	+02.5	14
15	5 40.1	+02.5	6 39.3	+02.4	7 38.4	+02.5	8 37.5	+02.5	9 36.7	+02.4	15
16	20 42.6	+02.4	21 41.7	+02.5	22 40.9	+02.4	23 40.0	+02.5	24 39.1	+02.5	16
17	35 45.0	+02.5	36 44.2	+02.5	37 43.3	+02.5	38 42.5	+02.4	39 41.6	+02.5	17
18	50 47.5	+02.5	51 46.7	+02.4	52 45.8	+02.5	53 44.9	+02.5	54 44.1	+02.4	18
19	65 50.0	+02.4	66 49.1	+02.5	67 48.3	+02.4	68 47.4	+02.5	69 46.5	+02.5	19
20	80 52.4	+02.5	81 51.6	+02.4	82 50.7	+02.5	83 49.9	+02.4	84 49.0	+02.5	20
21	95 54.9	+02.5	96 54.0	+02.5	97 53.2	+02.4	98 52.3	+02.5	99 51.5	+02.4	21
22	110 57.4	+02.4	111 56.5	+02.5	112 55.6	+02.5	113 54.8	+02.5	114 53.9	+02.5	22
23	125 59.8	+02.5	126 59.0	+02.4	127 58.1	+02.5	128 57.3	+02.4	129 56.4	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.7
Ankaa	353 09.9	S 42 11.3
Schedir	349 34.1	N 56 39.6
Diphda	348 50.0	S 17 52.2
Achernar	335 22.3	S 57 07.8
Hamal	327 54.0	N 23 34.0
Polaris	315 11.8	N 89 21.7
Acamar	315 13.6	S 40 13.3
Menkar	314 08.7	N 04 10.5
Mirfak	308 31.6	N 49 56.5
Aldebaran	290 42.3	N 16 33.2
Capella	280 25.2	N 46 01.4
Rigel	281 06.0	S 08 10.7
Bellatrix	278 25.2	N 06 22.1
Elnath	278 04.7	N 28 37.6
Alnilam	275 40.0	S 01 11.4
Betelgeuze	270 54.5	N 07 24.6
Canopus	263 53.1	S 52 42.7
Sirius	258 27.9	S 16 44.5
Adhara	255 07.4	S 29 00.3
Castor	245 59.7	N 31 50.4
Procyon	244 52.8	N 05 10.4
Pollux	243 19.5	N 27 58.4
Avior	234 15.0	S 59 34.9
Suhail	222 47.6	S 43 31.3
Miaplacidus	221 37.6	S 69 48.5
Alphard	217 49.8	S 08 45.3
Regulus	207 36.6	N 11 51.5
Dubhe	193 43.3	N 61 37.8
Denebola	182 27.0	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.7	S 17 39.8
Acrux	173 02.2	S 63 13.0
Gacrux	171 53.9	S 57 13.9
Alioth	166 14.9	N 55 50.2
Spica	158 24.6	S 11 16.6
Alkaid	152 53.7	N 49 12.0
Hadar	148 39.1	S 60 28.5
Menkent	148 00.0	S 36 28.3
Arcturus	145 49.6	N 19 04.6
Rigel Kentaurus	139 40.8	S 60 55.4
Zubenelgenubi	136 58.6	S 16 07.9
Kocab	137 19.7	N 74 03.6
Alphecca	126 05.8	N 26 38.3
Antares	112 19.0	S 26 28.7
Atria	107 15.5	S 69 03.7
Sabik	102 05.7	S 15 45.2
Shaula	96 13.8	S 37 07.1
Rasalhague	96 01.0	N 12 32.6
Etamin	90 43.6	N 51 28.9
Kaus Australis	83 36.0	S 34 22.3
Vega	80 35.2	N 38 47.9
Nunki	75 51.0	S 26 16.1
Albireo	67 06.3	N 28 00.2
Altair	62 02.8	N 08 55.3
Peacock	53 10.1	S 56 39.8
Deneb	49 27.9	N 45 21.4
Enif	33 41.5	N 09 58.4
Alnair	27 36.4	S 46 51.4
Formalhaut	15 17.6	S 29 30.5
Markab	13 32.6	N 15 19.3

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UT	day 46 of 365 February 15 GHA ° ′	ddGHA ′	day 47 of 365 February 16 GHA ° ′	ddGHA ′	day 48 of 365 February 17 GHA ° ′	ddGHA ′	day 49 of 365 February 18 GHA ° ′	ddGHA ′	day 50 of 365 February 19 GHA ° ′	ddGHA ′	UT
00	144 58.9	+02.4	145 58.0	+02.5	146 57.1	+02.5	147 56.3	+02.4	148 55.4	+02.5	00
01	160 01.3	+02.5	161 00.5	+02.4	161 59.6	+02.5	162 58.7	+02.5	163 57.9	+02.4	01
02	175 03.8	+02.4	176 02.9	+02.5	177 02.1	+02.4	178 01.2	+02.5	179 00.3	+02.5	02
03	190 06.2	+02.5	191 05.4	+02.5	192 04.5	+02.5	193 03.7	+02.4	194 02.8	+02.5	03
04	205 08.7	+02.5	206 07.9	+02.4	207 07.0	+02.5	208 06.1	+02.5	209 05.3	+02.4	04
05	220 11.2	+02.4	221 10.3	+02.5	222 09.5	+02.4	223 08.6	+02.5	224 07.7	+02.5	05
06	235 13.6	+02.5	236 12.8	+02.4	237 11.9	+02.5	238 11.1	+02.4	239 10.2	+02.5	06
07	250 16.1	+02.5	251 15.2	+02.5	252 14.4	+02.4	253 13.5	+02.5	254 12.7	+02.4	07
08	265 18.6	+02.4	266 17.7	+02.5	267 16.8	+02.5	268 16.0	+02.4	269 15.1	+02.5	08
09	280 21.0	+02.5	281 20.2	+02.4	282 19.3	+02.5	283 18.4	+02.5	284 17.6	+02.4	09
10	295 23.5	+02.5	296 22.6	+02.5	297 21.8	+02.4	298 20.9	+02.5	299 20.0	+02.5	10
11	310 26.0	+02.4	311 25.1	+02.5	312 24.2	+02.5	313 23.4	+02.4	314 22.5	+02.5	11
12	325 28.4	+02.5	326 27.6	+02.4	327 26.7	+02.5	328 25.8	+02.5	329 25.0	+02.4	12
13	340 30.9	+02.5	341 30.0	+02.5	342 29.2	+02.4	343 28.3	+02.5	344 27.4	+02.5	13
14	355 33.4	+02.4	356 32.5	+02.5	357 31.6	+02.5	358 30.8	+02.4	359 29.9	+02.5	14
15	10 35.8	+02.5	11 35.0	+02.4	12 34.1	+02.5	13 33.2	+02.5	14 32.4	+02.4	15
16	25 38.3	+02.4	26 37.4	+02.5	27 36.6	+02.4	28 35.7	+02.5	29 34.8	+02.5	16
17	40 40.7	+02.5	41 39.9	+02.4	42 39.0	+02.5	43 38.2	+02.4	44 37.3	+02.5	17
18	55 43.2	+02.5	56 42.3	+02.5	57 41.5	+02.5	58 40.6	+02.5	59 39.8	+02.4	18
19	70 45.7	+02.4	71 44.8	+02.5	72 44.0	+02.4	73 43.1	+02.5	74 42.2	+02.5	19
20	85 48.1	+02.5	86 47.3	+02.4	87 46.4	+02.5	88 45.6	+02.4	89 44.7	+02.5	20
21	100 50.6	+02.5	101 49.7	+02.5	102 48.9	+02.4	103 48.0	+02.5	104 47.2	+02.4	21
22	115 53.1	+02.4	116 52.2	+02.5	117 51.3	+02.5	118 50.5	+02.4	119 49.6	+02.5	22
23	130 55.5	+02.5	131 54.7	+02.4	132 53.8	+02.5	133 52.9	+02.5	134 52.1	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.7
Ankaa	353 09.9	S 42 11.3
Schedir	349 34.1	N 56 39.6
Diphda	348 50.0	S 17 52.2
Achernar	335 22.3	S 57 07.8
Hamal	327 54.1	N 23 34.0
Polaris	315 14.1	N 89 21.7
Acamar	315 13.6	S 40 13.3
Menkar	314 08.7	N 04 10.5
Mirfak	308 31.6	N 49 56.5
Aldebaran	290 42.3	N 16 33.2
Capella	280 25.2	N 46 01.4
Rigel	281 06.0	S 08 10.7
Bellatrix	278 25.3	N 06 22.1
Elnath	278 04.7	N 28 37.6
Alnilam	275 40.0	S 01 11.4
Betelgeuze	270 54.5	N 07 24.6
Canopus	263 53.1	S 52 42.7
Sirius	258 27.9	S 16 44.5
Adhara	255 07.4	S 29 00.3
Castor	245 59.7	N 31 50.4
Procyon	244 52.8	N 05 10.4
Pollux	243 19.5	N 27 58.4
Avior	234 15.1	S 59 34.9
Suhail	222 47.6	S 43 31.3
Miaplacidus	221 37.6	S 69 48.5
Alphard	217 49.7	S 08 45.3
Regulus	207 36.5	N 11 51.5
Dubhe	193 43.2	N 61 37.8
Denebola	182 26.9	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.7	S 17 39.9
Acrux	173 02.2	S 63 13.1
Gacrux	171 53.8	S 57 13.9
Alioth	166 14.8	N 55 50.2
Spica	158 24.6	S 11 16.6
Alkaid	152 53.6	N 49 12.0
Hadar	148 39.1	S 60 28.5
Menkent	147 60.0	S 36 28.3
Arcturus	145 49.6	N 19 04.6
Rigel Kentaurus	139 40.8	S 60 55.5
Zubenelgenubi	136 58.5	S 16 07.9
Kocab	137 19.6	N 74 03.6
Alphecca	126 05.8	N 26 38.2
Antares	112 18.9	S 26 28.8
Atria	107 15.4	S 69 03.7
Sabik	102 05.6	S 15 45.2
Shaula	96 13.8	S 37 07.1
Rasalhague	96 00.9	N 12 32.6
Etamin	90 43.6	N 51 28.9
Kaus Australis	83 35.9	S 34 22.3
Vega	80 35.2	N 38 47.9
Nunki	75 51.0	S 26 16.1
Albireo	67 06.3	N 28 00.1
Altair	62 02.7	N 08 55.3
Peacock	53 10.0	S 56 39.8
Deneb	49 27.8	N 45 21.4
Enif	33 41.5	N 09 58.4
Alnair	27 36.4	S 46 51.4
Formalhaut	15 17.6	S 29 30.5
Markab	13 32.6	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 71 of 365 March 12 GHA	ddGHA	day 72 of 365 March 13 GHA	ddGHA	day 73 of 365 March 14 GHA	ddGHA	day 74 of 365 March 15 GHA	ddGHA	day 75 of 365 March 16 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	169 37.3	+02.5	170 36.5	+02.4	171 35.6	+02.5	172 34.7	+02.5	173 33.9	+02.4	00
01	184 39.8	+02.4	185 38.9	+02.5	186 38.1	+02.4	187 37.2	+02.5	188 36.3	+02.5	01
02	199 42.2	+02.5	200 41.4	+02.4	201 40.5	+02.5	202 39.7	+02.4	203 38.8	+02.5	02
03	214 44.7	+02.5	215 43.8	+02.5	216 43.0	+02.5	217 42.1	+02.5	218 41.3	+02.4	03
04	229 47.2	+02.4	230 46.3	+02.5	231 45.5	+02.4	232 44.6	+02.5	233 43.7	+02.5	04
05	244 49.6	+02.5	245 48.8	+02.4	246 47.9	+02.5	247 47.1	+02.4	248 46.2	+02.5	05
06	259 52.1	+02.5	260 51.2	+02.5	261 50.4	+02.4	262 49.5	+02.5	263 48.7	+02.4	06
07	274 54.6	+02.4	275 53.7	+02.5	276 52.8	+02.5	277 52.0	+02.4	278 51.1	+02.5	07
08	289 57.0	+02.5	290 56.2	+02.4	291 55.3	+02.5	292 54.4	+02.5	293 53.6	+02.4	08
09	304 59.5	+02.5	305 58.6	+02.5	306 57.8	+02.4	307 56.9	+02.5	308 56.0	+02.5	09
10	320 02.0	+02.4	321 01.1	+02.5	322 00.2	+02.5	322 59.4	+02.4	323 58.5	+02.5	10
11	335 04.4	+02.5	336 03.6	+02.4	337 02.7	+02.5	338 01.8	+02.5	339 01.0	+02.4	11
12	350 06.9	+02.4	351 06.0	+02.5	352 05.2	+02.4	353 04.3	+02.5	354 03.4	+02.5	12
13	5 09.3	+02.5	6 08.5	+02.5	7 07.6	+02.5	8 06.8	+02.4	9 05.9	+02.5	13
14	20 11.8	+02.5	21 11.0	+02.4	22 10.1	+02.5	23 09.2	+02.5	24 08.4	+02.4	14
15	35 14.3	+02.4	36 13.4	+02.5	37 12.6	+02.4	38 11.7	+02.5	39 10.8	+02.5	15
16	50 16.7	+02.5	51 15.9	+02.4	52 15.0	+02.5	53 14.2	+02.4	54 13.3	+02.5	16
17	65 19.2	+02.5	66 18.3	+02.5	67 17.5	+02.4	68 16.6	+02.5	69 15.8	+02.4	17
18	80 21.7	+02.4	81 20.8	+02.5	82 19.9	+02.5	83 19.1	+02.5	84 18.2	+02.5	18
19	95 24.1	+02.5	96 23.3	+02.4	97 22.4	+02.5	98 21.6	+02.4	99 20.7	+02.5	19
20	110 26.6	+02.5	111 25.7	+02.5	112 24.9	+02.4	113 24.0	+02.5	114 23.2	+02.4	20
21	125 29.1	+02.4	126 28.2	+02.5	127 27.3	+02.5	128 26.5	+02.4	129 25.6	+02.5	21
22	140 31.5	+02.5	141 30.7	+02.4	142 29.8	+02.5	143 28.9	+02.5	144 28.1	+02.4	22
23	155 34.0	+02.5	156 33.1	+02.5	157 32.3	+02.4	158 31.4	+02.5	159 30.5	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.7	Gienah	175 45.6	S 17 39.9
Ankaa	353 10.0	S 42 11.2	*Acrux*	173 02.0	S 63 13.2
Schedir	349 34.2	N 56 39.5	*Gacrux*	171 53.7	S 57 14.1
Diphda	348 50.0	S 17 52.2	*Alioth*	166 14.6	N 55 50.3
Achernar	335 22.5	S 57 07.7	Spica	158 24.5	S 11 16.6
Hamal	327 54.1	N 23 34.0	*Alkaid*	152 53.4	N 49 12.0
Polaris	315 25.3	N 89 21.7	*Hadar*	148 38.8	S 60 28.6
Acamar	315 13.8	S 40 13.3	*Menkent*	147 59.8	S 36 28.4
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.4	N 19 04.6
Mirfak	308 31.8	N 49 56.4	*Rigel Kentaurus*	139 40.5	S 60 55.6
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 25.4	N 46 01.5	*Kocab*	137 19.1	N 74 03.6
Rigel	281 06.1	S 08 10.8	Alphecca	126 05.6	N 26 38.2
Bellatrix	278 25.4	N 06 22.1	Antares	112 18.7	S 26 28.8
Elnath	278 04.8	N 28 37.6	*Atria*	107 14.9	S 69 03.7
Alnilam	275 40.1	S 01 11.4	Sabik	102 05.4	S 15 45.2
Betelgeuze	270 54.6	N 07 24.6	*Shaula*	96 13.5	S 37 07.1
Canopus	263 53.3	S 52 42.7	Rasalhague	96 00.8	N 12 32.5
Sirius	258 28.0	S 16 44.5	*Etamin*	90 43.3	N 51 28.8
Adhara	255 07.5	S 29 00.3	*Kaus Australis*	83 35.7	S 34 22.3
Castor	245 59.8	N 31 50.5	*Vega*	80 35.0	N 38 47.8
Procyon	244 52.9	N 05 10.4	Nunki	75 50.8	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 06.1	N 28 00.1
Avior	234 15.2	S 59 35.0	Altair	62 02.6	N 08 55.3
Suhail	222 47.6	S 43 31.5	*Peacock*	53 09.8	S 56 39.7
Miaplacidus	221 37.8	S 69 48.6	*Deneb*	49 27.7	N 45 21.3
Alphard	217 49.8	S 08 45.4	Enif	33 41.4	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.3	S 46 51.2
Dubhe	193 43.1	N 61 37.9	Formalhaut	15 17.6	S 29 30.4
Denebola	182 26.8	N 14 26.9	Markab	13 32.6	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 56 of 365 February 25 GHA	ddGHA	day 57 of 365 February 26 GHA	ddGHA	day 58 of 365 February 27 GHA	ddGHA	day 59 of 365 February 28 GHA	ddGHA	day 60 of 365 March 1 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	154 50.2	+02.5	155 49.4	+02.4	156 48.5	+02.5	157 47.7	+02.4	158 46.8	+02.5	00
01	169 52.7	+02.5	170 51.8	+02.5	171 51.0	+02.4	172 50.1	+02.5	173 49.3	+02.4	01
02	184 55.2	+02.4	185 54.3	+02.5	186 53.4	+02.5	187 52.6	+02.5	188 51.7	+02.5	02
03	199 57.6	+02.5	200 56.8	+02.4	201 55.9	+02.5	202 55.1	+02.4	203 54.2	+02.5	03
04	215 00.1	+02.5	215 59.2	+02.5	216 58.4	+02.4	217 57.5	+02.5	218 56.7	+02.4	04
05	230 02.6	+02.4	231 01.7	+02.5	232 00.8	+02.5	232 60.0	+02.4	233 59.1	+02.5	05
06	245 05.0	+02.5	246 04.2	+02.4	247 03.3	+02.5	248 02.4	+02.5	249 01.6	+02.4	06
07	260 07.5	+02.5	261 06.6	+02.5	262 05.8	+02.4	263 04.9	+02.5	264 04.0	+02.5	07
08	275 10.0	+02.4	276 09.1	+02.5	277 08.2	+02.5	278 07.4	+02.4	279 06.5	+02.5	08
09	290 12.4	+02.5	291 11.6	+02.4	292 10.7	+02.5	293 09.8	+02.5	294 09.0	+02.4	09
10	305 14.9	+02.4	306 14.0	+02.5	307 13.2	+02.4	308 12.3	+02.5	309 11.4	+02.5	10
11	320 17.3	+02.5	321 16.5	+02.4	322 15.6	+02.5	323 14.8	+02.4	324 13.9	+02.5	11
12	335 19.8	+02.5	336 18.9	+02.5	337 18.1	+02.5	338 17.2	+02.5	339 16.4	+02.4	12
13	350 22.3	+02.4	351 21.4	+02.5	352 20.6	+02.4	353 19.7	+02.5	354 18.8	+02.5	13
14	5 24.7	+02.5	6 23.9	+02.4	7 23.0	+02.5	8 22.2	+02.4	9 21.3	+02.5	14
15	20 27.2	+02.5	21 26.3	+02.5	22 25.5	+02.4	23 24.6	+02.5	24 23.8	+02.4	15
16	35 29.7	+02.4	36 28.8	+02.5	37 27.9	+02.5	38 27.1	+02.4	39 26.2	+02.5	16
17	50 32.1	+02.5	51 31.3	+02.4	52 30.4	+02.5	53 29.5	+02.5	54 28.7	+02.5	17
18	65 34.6	+02.5	66 33.7	+02.5	67 32.9	+02.4	68 32.0	+02.5	69 31.2	+02.4	18
19	80 37.1	+02.4	81 36.2	+02.5	82 35.3	+02.5	83 34.5	+02.4	84 33.6	+02.5	19
20	95 39.5	+02.5	96 38.7	+02.4	97 37.8	+02.5	98 36.9	+02.5	99 36.1	+02.4	20
21	110 42.0	+02.4	111 41.1	+02.5	112 40.3	+02.4	113 39.4	+02.5	114 38.5	+02.5	21
22	125 44.4	+02.5	126 43.6	+02.5	127 42.7	+02.5	128 41.9	+02.4	129 41.0	+02.5	22
23	140 46.9	+02.5	141 46.1	+02.4	142 45.2	+02.5	143 44.3	+02.5	144 43.5	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.7	Gienah	175 45.7	S 17 39.9
Ankaa	353 10.0	S 42 11.3	*Acrux*	173 02.1	S 63 13.1
Schedir	349 34.2	N 56 39.5	*Gacrux*	171 53.8	S 57 14.0
Diphda	348 50.0	S 17 52.2	*Alioth*	166 14.7	N 55 50.2
Achernar	335 22.4	S 57 07.8	Spica	158 24.5	S 11 16.6
Hamal	327 54.1	N 23 34.0	*Alkaid*	152 53.5	N 49 12.0
Polaris	315 18.9	N 89 21.7	*Hadar*	148 38.9	S 60 28.5
Acamar	315 13.7	S 40 13.3	*Menkent*	147 59.9	S 36 28.3
Menkar	314 08.7	N 04 10.5	Arcturus	145 49.5	N 19 04.6
Mirfak	308 31.7	N 49 56.5	*Rigel Kentaurus*	139 40.6	S 60 55.5
Aldebaran	290 42.3	N 16 33.2	Zubenelgenubi	136 58.4	S 16 08.0
Capella	280 25.3	N 46 01.5	*Kocab*	137 19.4	N 74 03.6
Rigel	281 06.0	S 08 10.8	Alphecca	126 05.7	N 26 38.2
Bellatrix	278 25.3	N 06 22.1	Antares	112 18.9	S 26 28.8
Elnath	278 04.7	N 28 37.6	*Atria*	107 15.2	S 69 03.7
Alnilam	275 40.0	S 01 11.4	Sabik	102 05.6	S 15 45.2
Betelgeuze	270 54.5	N 07 24.6	*Shaula*	96 13.7	S 37 07.1
Canopus	263 53.2	S 52 42.7	Rasalhague	96 00.9	N 12 32.5
Sirius	258 27.9	S 16 44.5	*Etamin*	90 43.5	N 51 28.8
Adhara	255 07.5	S 29 00.3	*Kaus Australis*	83 35.8	S 34 22.3
Castor	245 59.7	N 31 50.4	*Vega*	80 35.1	N 38 47.9
Procyon	244 52.8	N 05 10.4	Nunki	75 50.9	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 06.2	N 28 00.1
Avior	234 15.1	S 59 35.0	Altair	62 02.7	N 08 55.3
Suhail	222 47.6	S 43 31.4	*Peacock*	53 10.0	S 56 39.8
Miaplacidus	221 37.7	S 69 48.6	*Deneb*	49 27.8	N 45 21.3
Alphard	217 49.7	S 08 45.4	Enif	33 41.4	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.4	S 46 51.3
Dubhe	193 43.2	N 61 37.9	Formalhaut	15 17.6	S 29 30.4
Denebola	182 26.9	N 14 26.9	Markab	13 32.6	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 61 of 365 March 2 GHA	ddGHA	day 62 of 365 March 3 GHA	ddGHA	day 63 of 365 March 4 GHA	ddGHA	day 64 of 365 March 5 GHA	ddGHA	day 65 of 365 March 6 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	159 45.9	+02.5	160 45.1	+02.4	161 44.2	+02.5	162 43.3	+02.5	163 42.5	+02.4	00
01	174 48.4	+02.5	175 47.5	+02.5	176 46.7	+02.4	177 45.8	+02.5	178 44.9	+02.5	01
02	189 50.9	+02.4	190 50.0	+02.5	191 49.1	+02.5	192 48.3	+02.4	193 47.4	+02.5	02
03	204 53.3	+02.5	205 52.5	+02.4	206 51.6	+02.5	207 50.7	+02.5	208 49.9	+02.4	03
04	219 55.8	+02.5	220 54.9	+02.5	221 54.1	+02.4	222 53.2	+02.5	223 52.3	+02.5	04
05	234 58.3	+02.4	235 57.4	+02.5	236 56.5	+02.5	237 55.7	+02.4	238 54.8	+02.5	05
06	250 00.7	+02.5	250 59.9	+02.4	251 59.0	+02.5	252 58.1	+02.5	253 57.3	+02.4	06
07	265 03.2	+02.4	266 02.3	+02.5	267 01.5	+02.4	268 00.6	+02.5	268 59.7	+02.5	07
08	280 05.6	+02.5	281 04.8	+02.4	282 03.9	+02.5	283 03.1	+02.4	284 02.2	+02.5	08
09	295 08.1	+02.5	296 07.2	+02.5	297 06.4	+02.5	298 05.5	+02.5	299 04.7	+02.4	09
10	310 10.6	+02.4	311 09.7	+02.5	312 08.9	+02.4	313 08.0	+02.5	314 07.1	+02.5	10
11	325 13.0	+02.5	326 12.2	+02.4	327 11.3	+02.5	328 10.5	+02.4	329 09.6	+02.5	11
12	340 15.5	+02.5	341 14.6	+02.5	342 13.8	+02.4	343 12.9	+02.5	344 12.1	+02.4	12
13	355 18.0	+02.4	356 17.1	+02.5	357 16.2	+02.5	358 15.4	+02.4	359 14.5	+02.5	13
14	10 20.4	+02.5	11 19.6	+02.4	12 18.7	+02.5	13 17.8	+02.5	14 17.0	+02.4	14
15	25 22.9	+02.5	26 22.0	+02.5	27 21.2	+02.4	28 20.3	+02.5	29 19.4	+02.5	15
16	40 25.4	+02.4	41 24.5	+02.5	42 23.6	+02.5	43 22.8	+02.4	44 21.9	+02.5	16
17	55 27.8	+02.5	56 27.0	+02.4	57 26.1	+02.5	58 25.2	+02.5	59 24.4	+02.4	17
18	70 30.3	+02.5	71 29.4	+02.5	72 28.6	+02.4	73 27.7	+02.5	74 26.8	+02.5	18
19	85 32.8	+02.4	86 31.9	+02.5	87 31.0	+02.5	88 30.2	+02.4	89 29.3	+02.5	19
20	100 35.2	+02.5	101 34.4	+02.4	102 33.5	+02.5	103 32.6	+02.5	104 31.8	+02.4	20
21	115 37.7	+02.4	116 36.8	+02.5	117 36.0	+02.4	118 35.1	+02.5	119 34.2	+02.5	21
22	130 40.1	+02.5	131 39.3	+02.4	132 38.4	+02.5	133 37.6	+02.4	134 36.7	+02.5	22
23	145 42.6	+02.5	146 41.7	+02.5	147 40.9	+02.4	148 40.0	+02.5	149 39.2	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.7
Ankaa	353 10.0	S 42 11.3
Schedir	349 34.2	N 56 39.5
Diphda	348 50.0	S 17 52.2
Achernar	335 22.4	S 57 07.8
Hamal	327 54.1	N 23 34.0
Polaris	315 21.2	N 89 21.7
Acamar	315 13.7	S 40 13.3
Menkar	314 08.7	N 04 10.5
Mirfak	308 31.7	N 49 56.5
Aldebaran	290 42.3	N 16 33.2
Capella	280 25.3	N 46 01.5
Rigel	281 06.1	S 08 10.8
Bellatrix	278 25.3	N 06 22.1
Elnath	278 04.8	N 28 37.6
Alnilam	275 40.0	S 01 11.4
Betelgeuze	270 54.5	N 07 24.6
Canopus	263 53.2	S 52 42.7
Sirius	258 27.9	S 16 44.5
Adhara	255 07.5	S 29 00.3
Castor	245 59.7	N 31 50.4
Procyon	244 52.8	N 05 10.4
Pollux	243 19.6	N 27 58.4
Avior	234 15.1	S 59 35.0
Suhail	222 47.6	S 43 31.4
Miaplacidus	221 37.7	S 69 48.6
Alphard	217 49.7	S 08 45.4
Regulus	207 36.5	N 11 51.5
Dubhe	193 43.1	N 61 37.9
Denebola	182 26.9	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 39.9
Acrux	173 02.0	S 63 13.1
Gacrux	171 53.7	S 57 14.0
Alioth	166 14.7	N 55 50.2
Spica	158 24.5	S 11 16.6
Alkaid	152 53.5	N 49 12.0
Hadar	148 38.9	S 60 28.5
Menkent	147 59.8	S 36 28.3
Arcturus	145 49.5	N 19 04.6
Rigel Kentaurus	139 40.6	S 60 55.5
Zubenelgenubi	136 58.4	S 16 08.0
Kocab	137 19.3	N 74 03.6
Alphecca	126 05.7	N 26 38.2
Antares	112 18.8	S 26 28.8
Atria	107 15.1	S 69 03.7
Sabik	102 05.5	S 15 45.2
Shaula	96 13.6	S 37 07.1
Rasalhague	96 00.8	N 12 32.5
Etamin	90 43.4	N 51 28.8
Kaus Australis	83 35.8	S 34 22.3
Vega	80 35.1	N 38 47.8
Nunki	75 50.9	S 26 16.1
Albireo	67 06.2	N 28 00.1
Altair	62 02.6	N 08 55.3
Peacock	53 09.9	S 56 39.7
Deneb	49 27.8	N 45 21.3
Enif	33 41.4	N 09 58.4
Alnair	27 36.4	S 46 51.3
Formalhaut	15 17.6	S 29 30.4
Markab	13 32.6	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 66 of 365 March 7 GHA	ddGHA	day 67 of 365 March 8 GHA	ddGHA	day 68 of 365 March 9 GHA	ddGHA	day 69 of 365 March 10 GHA	ddGHA	day 70 of 365 March 11 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	164 41.6	+02.5	165 40.8	+02.4	166 39.9	+02.5	167 39.0	+02.5	168 38.2	+02.4	00
01	179 44.1	+02.4	180 43.2	+02.5	181 42.4	+02.4	182 41.5	+02.5	183 40.6	+02.5	01
02	194 46.5	+02.5	195 45.7	+02.5	196 44.8	+02.5	197 44.0	+02.4	198 43.1	+02.5	02
03	209 49.0	+02.5	210 48.2	+02.4	211 47.3	+02.5	212 46.4	+02.5	213 45.6	+02.4	03
04	224 51.5	+02.4	225 50.6	+02.5	226 49.8	+02.4	227 48.9	+02.5	228 48.0	+02.5	04
05	239 53.9	+02.5	240 53.1	+02.4	241 52.2	+02.5	242 51.4	+02.4	243 50.5	+02.5	05
06	254 56.4	+02.5	255 55.5	+02.5	256 54.7	+02.4	257 53.8	+02.5	258 53.0	+02.4	06
07	269 58.9	+02.4	270 58.0	+02.5	271 57.1	+02.5	272 56.3	+02.4	273 55.4	+02.5	07
08	285 01.3	+02.5	286 00.5	+02.4	286 59.6	+02.5	287 58.7	+02.5	288 57.9	+02.5	08
09	300 03.8	+02.5	301 02.9	+02.5	302 02.1	+02.4	303 01.2	+02.5	304 00.4	+02.4	09
10	315 06.3	+02.4	316 05.4	+02.5	317 04.5	+02.5	318 03.7	+02.4	319 02.8	+02.5	10
11	330 08.7	+02.5	331 07.9	+02.4	332 07.0	+02.5	333 06.1	+02.5	334 05.3	+02.4	11
12	345 11.2	+02.5	346 10.3	+02.5	347 09.5	+02.4	348 08.6	+02.5	349 07.7	+02.5	12
13	0 13.7	+02.4	1 12.8	+02.5	2 11.9	+02.5	3 11.1	+02.4	4 10.2	+02.5	13
14	15 16.1	+02.5	16 15.3	+02.4	17 14.4	+02.5	18 13.5	+02.5	19 12.7	+02.4	14
15	30 18.6	+02.4	31 17.7	+02.5	32 16.9	+02.4	33 16.0	+02.5	34 15.1	+02.5	15
16	45 21.0	+02.5	46 20.2	+02.4	47 19.3	+02.5	48 18.5	+02.4	49 17.6	+02.5	16
17	60 23.5	+02.5	61 22.6	+02.5	62 21.8	+02.5	63 20.9	+02.5	64 20.1	+02.4	17
18	75 26.0	+02.4	76 25.1	+02.5	77 24.3	+02.4	78 23.4	+02.5	79 22.5	+02.5	18
19	90 28.4	+02.5	91 27.6	+02.4	92 26.7	+02.5	93 25.9	+02.4	94 25.0	+02.5	19
20	105 30.9	+02.5	106 30.0	+02.5	107 29.2	+02.4	108 28.3	+02.5	109 27.5	+02.4	20
21	120 33.4	+02.4	121 32.5	+02.5	122 31.6	+02.5	123 30.8	+02.4	124 29.9	+02.5	21
22	135 35.8	+02.5	136 35.0	+02.4	137 34.1	+02.5	138 33.2	+02.5	139 32.4	+02.5	22
23	150 38.3	+02.5	151 37.4	+02.5	152 36.6	+02.4	153 35.7	+02.5	154 34.9	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.7
Ankaa	353 10.0	S 42 11.3
Schedir	349 34.2	N 56 39.5
Diphda	348 50.0	S 17 52.2
Achernar	335 22.5	S 57 07.8
Hamal	327 54.1	N 23 34.0
Polaris	315 23.5	N 89 21.7
Acamar	315 13.7	S 40 13.3
Menkar	314 08.7	N 04 10.5
Mirfak	308 31.8	N 49 56.5
Aldebaran	290 42.4	N 16 33.2
Capella	280 25.3	N 46 01.5
Rigel	281 06.1	S 08 10.8
Bellatrix	278 25.3	N 06 22.1
Elnath	278 04.8	N 28 37.6
Alnilam	275 40.1	S 01 11.4
Betelgeuze	270 54.5	N 07 24.6
Canopus	263 53.3	S 52 42.7
Sirius	258 28.0	S 16 44.5
Adhara	255 07.5	S 29 00.3
Castor	245 59.7	N 31 50.4
Procyon	244 52.9	N 05 10.4
Pollux	243 19.6	N 27 58.4
Avior	234 15.2	S 59 35.0
Suhail	222 47.6	S 43 31.4
Miaplacidus	221 37.7	S 69 48.6
Alphard	217 49.7	S 08 45.4
Regulus	207 36.5	N 11 51.5
Dubhe	193 43.1	N 61 37.9
Denebola	182 26.9	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 39.9
Acrux	173 02.0	S 63 13.2
Gacrux	171 53.7	S 57 14.0
Alioth	166 14.7	N 55 50.3
Spica	158 24.5	S 11 16.6
Alkaid	152 53.5	N 49 12.0
Hadar	148 38.8	S 60 28.6
Menkent	147 59.8	S 36 28.4
Arcturus	145 49.5	N 19 04.6
Rigel Kentaurus	139 40.5	S 60 55.5
Zubenelgenubi	136 58.4	S 16 08.0
Kocab	137 19.2	N 74 03.6
Alphecca	126 05.6	N 26 38.2
Antares	112 18.8	S 26 28.8
Atria	107 15.0	S 69 03.7
Sabik	102 05.5	S 15 45.2
Shaula	96 13.6	S 37 07.1
Rasalhague	96 00.8	N 12 32.5
Etamin	90 43.4	N 51 28.8
Kaus Australis	83 35.7	S 34 22.3
Vega	80 35.0	N 38 47.8
Nunki	75 50.8	S 26 16.1
Albireo	67 06.2	N 28 00.1
Altair	62 02.6	N 08 55.3
Peacock	53 09.9	S 56 39.7
Deneb	49 27.8	N 45 21.3
Enif	33 41.4	N 09 58.4
Alnair	27 36.4	S 46 51.3
Formalhaut	15 17.6	S 29 30.4
Markab	13 32.6	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 91 of 365 April 1 GHA	ddGHA	day 92 of 365 April 2 GHA	ddGHA	day 93 of 365 April 3 GHA	ddGHA	day 94 of 365 April 4 GHA	ddGHA	day 95 of 365 April 5 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	189 20.1	+02.4	190 19.2	+02.5	191 18.4	+02.4	192 17.5	+02.5	193 16.6	+02.5	00
01	204 22.5	+02.5	205 21.7	+02.4	206 20.8	+02.5	207 20.0	+02.4	208 19.1	+02.5	01
02	219 25.0	+02.5	220 24.1	+02.5	221 23.3	+02.4	222 22.4	+02.5	223 21.6	+02.4	02
03	234 27.5	+02.4	235 26.6	+02.5	236 25.7	+02.5	237 24.9	+02.4	238 24.0	+02.5	03
04	249 29.9	+02.5	250 29.1	+02.4	251 28.2	+02.5	252 27.3	+02.5	253 26.5	+02.5	04
05	264 32.4	+02.5	265 31.5	+02.5	266 30.7	+02.4	267 29.8	+02.5	268 29.0	+02.4	05
06	279 34.9	+02.4	280 34.0	+02.5	281 33.1	+02.5	282 32.3	+02.4	283 31.4	+02.5	06
07	294 37.3	+02.5	295 36.5	+02.4	296 35.6	+02.5	297 34.7	+02.5	298 33.9	+02.4	07
08	309 39.8	+02.5	310 38.9	+02.5	311 38.1	+02.4	312 37.2	+02.5	313 36.3	+02.5	08
09	324 42.3	+02.4	325 41.4	+02.5	326 40.5	+02.5	327 39.7	+02.4	328 38.8	+02.5	09
10	339 44.7	+02.5	340 43.9	+02.4	341 43.0	+02.5	342 42.1	+02.5	343 41.3	+02.4	10
11	354 47.2	+02.5	355 46.3	+02.5	356 45.5	+02.4	357 44.6	+02.5	358 43.7	+02.5	11
12	9 49.7	+02.4	10 48.8	+02.5	11 47.9	+02.5	12 47.1	+02.4	13 46.2	+02.5	12
13	24 52.1	+02.5	25 51.3	+02.4	26 50.4	+02.5	27 49.5	+02.5	28 48.7	+02.4	13
14	39 54.6	+02.4	40 53.7	+02.5	41 52.9	+02.4	42 52.0	+02.5	43 51.1	+02.5	14
15	54 57.0	+02.5	55 56.2	+02.4	56 55.3	+02.5	57 54.5	+02.4	58 53.6	+02.5	15
16	69 59.5	+02.5	70 58.6	+02.5	71 57.8	+02.4	72 56.9	+02.5	73 56.1	+02.4	16
17	85 02.0	+02.4	86 01.1	+02.5	87 00.2	+02.5	87 59.4	+02.4	88 58.5	+02.5	17
18	100 04.4	+02.5	101 03.6	+02.4	102 02.7	+02.5	103 01.8	+02.5	104 01.0	+02.5	18
19	115 06.9	+02.5	116 06.0	+02.5	117 05.2	+02.4	118 04.3	+02.5	119 03.5	+02.4	19
20	130 09.4	+02.4	131 08.5	+02.5	132 07.6	+02.5	133 06.8	+02.4	134 05.9	+02.5	20
21	145 11.8	+02.5	146 11.0	+02.4	147 10.1	+02.5	148 09.2	+02.5	149 08.4	+02.4	21
22	160 14.3	+02.5	161 13.4	+02.5	162 12.6	+02.4	163 11.7	+02.5	164 10.8	+02.5	22
23	175 16.8	+02.4	176 15.9	+02.5	177 15.0	+02.5	178 14.2	+02.4	179 13.3	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 10.0	S 42 11.1	*Acrux*	173 01.9	S 63 13.3
Schedir	349 34.2	N 56 39.4	*Gacrux*	171 53.6	S 57 14.2
Diphda	348 50.0	S 17 52.1	*Alioth*	166 14.6	N 55 50.3
Achernar	335 22.5	S 57 07.6	Spica	158 24.4	S 11 16.7
Hamal	327 54.2	N 23 33.9	*Alkaid*	152 53.3	N 49 12.1
Polaris	315 32.0	N 89 21.6	*Hadar*	148 38.6	S 60 28.7
Acamar	315 13.8	S 40 13.2	*Menkent*	147 59.7	S 36 28.5
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.3	N 19 04.6
Mirfak	308 31.9	N 49 56.4	*Rigel Kentaurus*	139 40.3	S 60 55.7
Aldebaran	290 42.5	N 16 33.2	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.5	N 46 01.4	*Kocab*	137 18.8	N 74 03.7
Rigel	281 06.2	S 08 10.7	Alphecca	126 05.5	N 26 38.3
Bellatrix	278 25.4	N 06 22.1	Antares	112 18.6	S 26 28.8
Elnath	278 04.9	N 28 37.6	*Atria*	107 14.5	S 69 03.8
Alnilam	275 40.2	S 01 11.4	Sabik	102 05.3	S 15 45.2
Betelgeuze	270 54.6	N 07 24.6	*Shaula*	96 13.4	S 37 07.1
Canopus	263 53.5	S 52 42.7	Rasalhague	96 00.6	N 12 32.5
Sirius	258 28.1	S 16 44.5	*Etamin*	90 43.1	N 51 28.8
Adhara	255 07.6	S 29 00.4	*Kaus Australis*	83 35.5	S 34 22.3
Castor	245 59.8	N 31 50.5	*Vega*	80 34.8	N 38 47.8
Procyon	244 52.9	N 05 10.4	Nunki	75 50.6	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 06.0	N 28 00.1
Avior	234 15.4	S 59 35.1	Altair	62 02.4	N 08 55.3
Suhail	222 47.7	S 43 31.5	*Peacock*	53 09.6	S 56 39.6
Miaplacidus	221 38.0	S 69 48.7	*Deneb*	49 27.6	N 45 21.2
Alphard	217 49.8	S 08 45.4	Enif	33 41.3	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.2	S 46 51.2
Dubhe	193 43.1	N 61 38.0	Formalhaut	15 17.5	S 29 30.3
Denebola	182 26.8	N 14 26.9	Markab	13 32.5	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 76 of 365 March 17 GHA	ddGHA	day 77 of 365 March 18 GHA	ddGHA	day 78 of 365 March 19 GHA	ddGHA	day 79 of 365 March 20 GHA	ddGHA	day 80 of 365 March 21 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	174 33.0	+02.5	175 32.1	+02.5	176 31.3	+02.4	177 30.4	+02.5	178 29.6	+02.4	00
01	189 35.5	+02.4	190 34.6	+02.5	191 33.7	+02.5	192 32.9	+02.4	193 32.0	+02.5	01
02	204 37.9	+02.5	205 37.1	+02.4	206 36.2	+02.5	207 35.3	+02.5	208 34.5	+02.4	02
03	219 40.4	+02.5	220 39.5	+02.5	221 38.7	+02.4	222 37.8	+02.5	223 36.9	+02.5	03
04	234 42.9	+02.4	235 42.0	+02.5	236 41.1	+02.5	237 40.3	+02.4	238 39.4	+02.5	04
05	249 45.3	+02.5	250 44.5	+02.4	251 43.6	+02.5	252 42.7	+02.5	253 41.9	+02.4	05
06	264 47.8	+02.5	265 46.9	+02.5	266 46.1	+02.4	267 45.2	+02.5	268 44.3	+02.5	06
07	279 50.3	+02.4	280 49.4	+02.5	281 48.5	+02.5	282 47.7	+02.4	283 46.8	+02.5	07
08	294 52.7	+02.5	295 51.9	+02.4	296 51.0	+02.5	297 50.1	+02.5	298 49.3	+02.4	08
09	309 55.2	+02.4	310 54.3	+02.5	311 53.5	+02.4	312 52.6	+02.5	313 51.7	+02.5	09
10	324 57.6	+02.5	325 56.8	+02.4	326 55.9	+02.5	327 55.1	+02.4	328 54.2	+02.5	10
11	340 00.1	+02.5	340 59.2	+02.5	341 58.4	+02.5	342 57.5	+02.5	343 56.7	+02.4	11
12	355 02.6	+02.4	356 01.7	+02.5	357 00.9	+02.4	357 60.0	+02.5	358 59.1	+02.5	12
13	10 05.0	+02.5	11 04.2	+02.4	12 03.3	+02.5	13 02.5	+02.4	14 01.6	+02.5	13
14	25 07.5	+02.5	26 06.6	+02.5	27 05.8	+02.4	28 04.9	+02.5	29 04.1	+02.4	14
15	40 10.0	+02.4	41 09.1	+02.5	42 08.2	+02.5	43 07.4	+02.4	44 06.5	+02.5	15
16	55 12.4	+02.5	56 11.6	+02.4	57 10.7	+02.5	58 09.8	+02.5	59 09.0	+02.4	16
17	70 14.9	+02.5	71 14.0	+02.5	72 13.2	+02.4	73 12.3	+02.5	74 11.4	+02.5	17
18	85 17.4	+02.4	86 16.5	+02.5	87 15.6	+02.5	88 14.8	+02.4	89 13.9	+02.5	18
19	100 19.8	+02.5	101 19.0	+02.4	102 18.1	+02.5	103 17.2	+02.5	104 16.4	+02.4	19
20	115 22.3	+02.5	116 21.4	+02.5	117 20.6	+02.4	118 19.7	+02.5	119 18.8	+02.5	20
21	130 24.8	+02.4	131 23.9	+02.5	132 23.0	+02.5	133 22.2	+02.4	134 21.3	+02.5	21
22	145 27.2	+02.5	146 26.4	+02.4	147 25.5	+02.5	148 24.6	+02.5	149 23.8	+02.4	22
23	160 29.7	+02.4	161 28.8	+02.5	162 28.0	+02.4	163 27.1	+02.5	164 26.2	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.7	Gienah	175 45.6	S 17 39.9
Ankaa	353 10.0	S 42 11.2	*Acrux*	173 02.0	S 63 13.2
Schedir	349 34.2	N 56 39.5	*Gacrux*	171 53.7	S 57 14.1
Diphda	348 50.0	S 17 52.1	*Alioth*	166 14.6	N 55 50.3
Achernar	335 22.5	S 57 07.7	Spica	158 24.4	S 11 16.6
Hamal	327 54.1	N 23 34.0	*Alkaid*	152 53.4	N 49 12.0
Polaris	315 27.3	N 89 21.7	*Hadar*	148 38.7	S 60 28.6
Acamar	315 13.8	S 40 13.3	*Menkent*	147 59.7	S 36 28.4
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.4	N 19 04.6
Mirfak	308 31.8	N 49 56.4	*Rigel Kentaurus*	139 40.4	S 60 55.6
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 25.4	N 46 01.5	*Kocab*	137 19.0	N 74 03.6
Rigel	281 06.1	S 08 10.8	Alphecca	126 05.6	N 26 38.2
Bellatrix	278 25.4	N 06 22.1	Antares	112 18.7	S 26 28.8
Elnath	278 04.8	N 28 37.6	*Atria*	107 14.8	S 69 03.7
Alnilam	275 40.1	S 01 11.4	Sabik	102 05.4	S 15 45.2
Betelgeuze	270 54.6	N 07 24.6	*Shaula*	96 13.5	S 37 07.1
Canopus	263 53.3	S 52 42.7	Rasalhague	96 00.7	N 12 32.5
Sirius	258 28.0	S 16 44.5	*Etamin*	90 43.3	N 51 28.8
Adhara	255 07.6	S 29 00.4	*Kaus Australis*	83 35.6	S 34 22.3
Castor	245 59.8	N 31 50.5	*Vega*	80 35.0	N 38 47.8
Procyon	244 52.9	N 05 10.4	Nunki	75 50.7	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 06.1	N 28 00.1
Avior	234 15.3	S 59 35.1	Altair	62 02.5	N 08 55.3
Suhail	222 47.6	S 43 31.5	*Peacock*	53 09.8	S 56 39.7
Miaplacidus	221 37.8	S 69 48.7	*Deneb*	49 27.7	N 45 21.2
Alphard	217 49.8	S 08 45.4	Enif	33 41.4	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.3	S 46 51.2
Dubhe	193 43.1	N 61 37.9	Formalhaut	15 17.6	S 29 30.4
Denebola	182 26.8	N 14 26.9	Markab	13 32.5	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 81 of 365 March 22 GHA	ddGHA	day 82 of 365 March 23 GHA	ddGHA	day 83 of 365 March 24 GHA	ddGHA	day 84 of 365 March 25 GHA	ddGHA	day 85 of 365 March 26 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	179 28.7	+02.5	180 27.8	+02.5	181 27.0	+02.4	182 26.1	+02.5	183 25.3	+02.4	00
01	194 31.2	+02.4	195 30.3	+02.5	196 29.4	+02.5	197 28.6	+02.4	198 27.7	+02.5	01
02	209 33.6	+02.5	210 32.8	+02.4	211 31.9	+02.5	212 31.0	+02.5	213 30.2	+02.4	02
03	224 36.1	+02.5	225 35.2	+02.5	226 34.4	+02.4	227 33.5	+02.5	228 32.6	+02.5	03
04	239 38.6	+02.4	240 37.7	+02.5	241 36.8	+02.5	242 36.0	+02.4	243 35.1	+02.5	04
05	254 41.0	+02.5	255 40.2	+02.4	256 39.3	+02.5	257 38.4	+02.5	258 37.6	+02.4	05
06	269 43.5	+02.4	270 42.6	+02.5	271 41.8	+02.4	272 40.9	+02.5	273 40.0	+02.5	06
07	284 45.9	+02.5	285 45.1	+02.4	286 44.2	+02.5	287 43.4	+02.4	288 42.5	+02.5	07
08	299 48.4	+02.5	300 47.5	+02.5	301 46.7	+02.5	302 45.8	+02.5	303 45.0	+02.4	08
09	314 50.9	+02.4	315 50.0	+02.5	316 49.2	+02.4	317 48.3	+02.5	318 47.4	+02.5	09
10	329 53.3	+02.5	330 52.5	+02.4	331 51.6	+02.5	332 50.8	+02.4	333 49.9	+02.5	10
11	344 55.8	+02.5	345 54.9	+02.5	346 54.1	+02.4	347 53.2	+02.5	348 52.4	+02.4	11
12	359 58.3	+02.4	0 57.4	+02.5	1 56.5	+02.5	2 55.7	+02.4	3 54.8	+02.5	12
13	15 00.7	+02.5	15 59.9	+02.4	16 59.0	+02.5	17 58.1	+02.5	18 57.3	+02.5	13
14	30 03.2	+02.5	31 02.3	+02.5	32 01.5	+02.4	33 00.6	+02.5	33 59.8	+02.4	14
15	45 05.7	+02.4	46 04.8	+02.5	47 03.9	+02.5	48 03.1	+02.4	49 02.2	+02.5	15
16	60 08.1	+02.5	61 07.3	+02.4	62 06.4	+02.5	63 05.5	+02.5	64 04.7	+02.4	16
17	75 10.6	+02.4	76 09.7	+02.5	77 08.9	+02.4	78 08.0	+02.5	79 07.1	+02.5	17
18	90 13.0	+02.5	91 12.2	+02.5	92 11.3	+02.5	93 10.5	+02.4	94 09.6	+02.5	18
19	105 15.5	+02.5	106 14.7	+02.4	107 13.8	+02.5	108 12.9	+02.5	109 12.1	+02.4	19
20	120 18.0	+02.4	121 17.1	+02.5	122 16.3	+02.4	123 15.4	+02.5	124 14.5	+02.5	20
21	135 20.4	+02.5	136 19.6	+02.4	137 18.7	+02.5	138 17.9	+02.4	139 17.0	+02.5	21
22	150 22.9	+02.5	151 22.0	+02.5	152 21.2	+02.4	153 20.3	+02.5	154 19.5	+02.4	22
23	165 25.4	+02.4	166 24.5	+02.5	167 23.6	+02.5	168 22.8	+02.5	169 21.9	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 10.0	S 42 11.2	*Acrux*	173 01.9	S 63 13.3
Schedir	349 34.2	N 56 39.4	*Gacrux*	171 53.7	S 57 14.1
Diphda	348 50.0	S 17 52.1	*Alioth*	166 14.6	N 55 50.3
Achernar	335 22.5	S 57 07.7	Spica	158 24.4	S 11 16.6
Hamal	327 54.2	N 23 34.0	*Alkaid*	152 53.4	N 49 12.0
Polaris	315 29.1	N 89 21.6	*Hadar*	148 38.7	S 60 28.6
Acamar	315 13.8	S 40 13.2	*Menkent*	147 59.7	S 36 28.4
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.4	N 19 04.6
Mirfak	308 31.9	N 49 56.4	*Rigel Kentaurus*	139 40.4	S 60 55.6
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 25.4	N 46 01.5	*Kocab*	137 18.9	N 74 03.6
Rigel	281 06.2	S 08 10.8	Alphecca	126 05.5	N 26 38.2
Bellatrix	278 25.4	N 06 22.1	Antares	112 18.6	S 26 28.8
Elnath	278 04.9	N 28 37.6	*Atria*	107 14.7	S 69 03.7
Alnilam	275 40.1	S 01 11.4	Sabik	102 05.4	S 15 45.2
Betelgeuze	270 54.6	N 07 24.6	*Shaula*	96 13.5	S 37 07.1
Canopus	263 53.4	S 52 42.7	Rasalhague	96 00.7	N 12 32.5
Sirius	258 28.0	S 16 44.5	*Etamin*	90 43.2	N 51 28.8
Adhara	255 07.6	S 29 00.4	*Kaus Australis*	83 35.6	S 34 22.3
Castor	245 59.8	N 31 50.5	*Vega*	80 34.9	N 38 47.8
Procyon	244 52.9	N 05 10.4	Nunki	75 50.7	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 06.1	N 28 00.1
Avior	234 15.3	S 59 35.1	Altair	62 02.5	N 08 55.3
Suhail	222 47.7	S 43 31.5	*Peacock*	53 09.7	S 56 39.7
Miaplacidus	221 37.9	S 69 48.7	*Deneb*	49 27.7	N 45 21.2
Alphard	217 49.8	S 08 45.4	Enif	33 41.3	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.3	S 46 51.2
Dubhe	193 43.1	N 61 38.0	Formalhaut	15 17.5	S 29 30.4
Denebola	182 26.8	N 14 26.9	Markab	13 32.5	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 86 of 365 March 27 GHA	ddGHA	day 87 of 365 March 28 GHA	ddGHA	day 88 of 365 March 29 GHA	ddGHA	day 89 of 365 March 30 GHA	ddGHA	day 90 of 365 March 31 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	184 24.4	+02.5	185 23.5	+02.5	186 22.7	+02.4	187 21.8	+02.5	188 20.9	+02.5	00
01	199 26.9	+02.4	200 26.0	+02.5	201 25.1	+02.5	202 24.3	+02.4	203 23.4	+02.5	01
02	214 29.3	+02.5	215 28.5	+02.4	216 27.6	+02.5	217 26.7	+02.5	218 25.9	+02.4	02
03	229 31.8	+02.5	230 30.9	+02.5	231 30.1	+02.4	232 29.2	+02.5	233 28.3	+02.5	03
04	244 34.3	+02.4	245 33.4	+02.5	246 32.5	+02.5	247 31.7	+02.4	248 30.8	+02.5	04
05	259 36.7	+02.5	260 35.9	+02.4	261 35.0	+02.5	262 34.1	+02.5	263 33.3	+02.4	05
06	274 39.2	+02.4	275 38.3	+02.5	276 37.5	+02.4	277 36.6	+02.5	278 35.7	+02.5	06
07	289 41.6	+02.5	290 40.8	+02.4	291 39.9	+02.5	292 39.1	+02.4	293 38.2	+02.5	07
08	304 44.1	+02.5	305 43.2	+02.5	306 42.4	+02.4	307 41.5	+02.5	308 40.7	+02.4	08
09	319 46.6	+02.4	320 45.7	+02.5	321 44.8	+02.5	322 44.0	+02.4	323 43.1	+02.5	09
10	334 49.0	+02.5	335 48.2	+02.4	336 47.3	+02.5	337 46.4	+02.5	338 45.6	+02.4	10
11	349 51.5	+02.5	350 50.6	+02.5	351 49.8	+02.4	352 48.9	+02.5	353 48.0	+02.5	11
12	4 54.0	+02.4	5 53.1	+02.5	6 52.2	+02.5	7 51.4	+02.4	8 50.5	+02.5	12
13	19 56.4	+02.5	20 55.6	+02.4	21 54.7	+02.5	22 53.8	+02.5	23 53.0	+02.4	13
14	34 58.9	+02.5	35 58.0	+02.5	36 57.2	+02.4	37 56.3	+02.5	38 55.4	+02.5	14
15	50 01.4	+02.4	51 00.5	+02.5	51 59.6	+02.5	52 58.8	+02.4	53 57.9	+02.5	15
16	65 03.8	+02.5	66 03.0	+02.4	67 02.1	+02.5	68 01.2	+02.5	69 00.4	+02.4	16
17	80 06.3	+02.4	81 05.4	+02.5	82 04.6	+02.4	83 03.7	+02.5	84 02.8	+02.5	17
18	95 08.7	+02.5	96 07.9	+02.5	97 07.0	+02.5	98 06.2	+02.4	99 05.3	+02.5	18
19	110 11.2	+02.5	111 10.4	+02.4	112 09.5	+02.5	113 08.6	+02.5	114 07.8	+02.4	19
20	125 13.7	+02.4	126 12.8	+02.5	127 12.0	+02.4	128 11.1	+02.5	129 10.2	+02.5	20
21	140 16.1	+02.5	141 15.3	+02.4	142 14.4	+02.5	143 13.6	+02.4	144 12.7	+02.5	21
22	155 18.6	+02.5	156 17.7	+02.5	157 16.9	+02.4	158 16.0	+02.5	159 15.2	+02.4	22
23	170 21.1	+02.4	171 20.2	+02.5	172 19.3	+02.5	173 18.5	+02.4	174 17.6	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.6	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 10.0	S 42 11.2	*Acrux*	173 01.9	S 63 13.3
Schedir	349 34.2	N 56 39.4	*Gacrux*	171 53.6	S 57 14.1
Diphda	348 50.0	S 17 52.1	*Alioth*	166 14.6	N 55 50.3
Achernar	335 22.5	S 57 07.7	Spica	158 24.4	S 11 16.7
Hamal	327 54.2	N 23 34.0	*Alkaid*	152 53.3	N 49 12.0
Polaris	315 30.3	N 89 21.6	*Hadar*	148 38.7	S 60 28.7
Acamar	315 13.8	S 40 13.2	*Menkent*	147 59.7	S 36 28.4
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.4	N 19 04.6
Mirfak	308 31.9	N 49 56.4	*Rigel Kentaurus*	139 40.3	S 60 55.6
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.5	N 46 01.4	*Kocab*	137 18.8	N 74 03.7
Rigel	281 06.2	S 08 10.8	Alphecca	126 05.5	N 26 38.2
Bellatrix	278 25.4	N 06 22.1	Antares	112 18.6	S 26 28.8
Elnath	278 04.9	N 28 37.6	*Atria*	107 14.6	S 69 03.7
Alnilam	275 40.1	S 01 11.4	Sabik	102 05.3	S 15 45.2
Betelgeuze	270 54.6	N 07 24.6	*Shaula*	96 13.4	S 37 07.1
Canopus	263 53.4	S 52 42.7	Rasalhague	96 00.6	N 12 32.5
Sirius	258 28.1	S 16 44.5	*Etamin*	90 43.2	N 51 28.8
Adhara	255 07.6	S 29 00.4	*Kaus Australis*	83 35.5	S 34 22.3
Castor	245 59.8	N 31 50.5	*Vega*	80 34.9	N 38 47.8
Procyon	244 52.9	N 05 10.4	Nunki	75 50.7	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 06.0	N 28 00.1
Avior	234 15.3	S 59 35.1	Altair	62 02.5	N 08 55.3
Suhail	222 47.7	S 43 31.5	*Peacock*	53 09.6	S 56 39.7
Miaplacidus	221 37.9	S 69 48.7	*Deneb*	49 27.6	N 45 21.2
Alphard	217 49.8	S 08 45.4	Enif	33 41.3	N 09 58.4
Regulus	207 36.5	N 11 51.5	*Alnair*	27 36.3	S 46 51.2
Dubhe	193 43.1	N 61 38.0	Formalhaut	15 17.5	S 29 30.4
Denebola	182 26.8	N 14 26.9	Markab	13 32.5	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 111 of 365 April 21 GHA	ddGHA	day 112 of 365 April 22 GHA	ddGHA	day 113 of 365 April 23 GHA	ddGHA	day 114 of 365 April 24 GHA	ddGHA	day 115 of 365 April 25 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	209 02.9	+02.4	210 02.0	+02.5	211 01.1	+02.5	212 00.3	+02.4	212 59.4	+02.5	00
01	224 05.3	+02.5	225 04.5	+02.4	226 03.6	+02.5	227 02.7	+02.5	228 01.9	+02.4	01
02	239 07.8	+02.4	240 06.9	+02.5	241 06.1	+02.4	242 05.2	+02.5	243 04.3	+02.5	02
03	254 10.2	+02.5	255 09.4	+02.4	256 08.5	+02.5	257 07.7	+02.4	258 06.8	+02.5	03
04	269 12.7	+02.5	270 11.8	+02.5	271 11.0	+02.5	272 10.1	+02.5	273 09.3	+02.4	04
05	284 15.2	+02.4	285 14.3	+02.5	286 13.5	+02.4	287 12.6	+02.5	288 11.7	+02.5	05
06	299 17.6	+02.5	300 16.8	+02.4	301 15.9	+02.5	302 15.1	+02.4	303 14.2	+02.5	06
07	314 20.1	+02.5	315 19.2	+02.5	316 18.4	+02.4	317 17.5	+02.5	318 16.7	+02.4	07
08	329 22.6	+02.4	330 21.7	+02.5	331 20.8	+02.5	332 20.0	+02.4	333 19.1	+02.5	08
09	344 25.0	+02.5	345 24.2	+02.4	346 23.3	+02.5	347 22.4	+02.5	348 21.6	+02.5	09
10	359 27.5	+02.5	0 26.6	+02.5	1 25.8	+02.4	2 24.9	+02.5	3 24.1	+02.4	10
11	14 30.0	+02.4	15 29.1	+02.5	16 28.2	+02.5	17 27.4	+02.4	18 26.5	+02.5	11
12	29 32.4	+02.5	30 31.6	+02.4	31 30.7	+02.5	32 29.8	+02.5	33 29.0	+02.4	12
13	44 34.9	+02.4	45 34.0	+02.5	46 33.2	+02.4	47 32.3	+02.5	48 31.4	+02.5	13
14	59 37.3	+02.5	60 36.5	+02.5	61 35.6	+02.5	62 34.8	+02.4	63 33.9	+02.5	14
15	74 39.8	+02.5	75 39.0	+02.4	76 38.1	+02.5	77 37.2	+02.5	78 36.4	+02.4	15
16	89 42.3	+02.4	90 41.4	+02.5	91 40.6	+02.4	92 39.7	+02.5	93 38.8	+02.5	16
17	104 44.7	+02.5	105 43.9	+02.4	106 43.0	+02.5	107 42.2	+02.4	108 41.3	+02.5	17
18	119 47.2	+02.5	120 46.3	+02.5	121 45.5	+02.5	122 44.6	+02.5	123 43.8	+02.4	18
19	134 49.7	+02.4	135 48.8	+02.5	136 48.0	+02.4	137 47.1	+02.5	138 46.2	+02.5	19
20	149 52.1	+02.5	150 51.3	+02.4	151 50.4	+02.5	152 49.6	+02.4	153 48.7	+02.5	20
21	164 54.6	+02.5	165 53.7	+02.5	166 52.9	+02.4	167 52.0	+02.5	168 51.2	+02.4	21
22	179 57.1	+02.4	180 56.2	+02.5	181 55.3	+02.5	182 54.5	+02.4	183 53.6	+02.5	22
23	194 59.5	+02.5	195 58.7	+02.4	196 57.8	+02.5	197 56.9	+02.5	198 56.1	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.6
Ankaa	353 09.9	S 42 11.0
Schedir	349 34.2	N 56 39.3
Diphda	348 50.0	S 17 52.0
Achernar	335 22.5	S 57 07.5
Hamal	327 54.2	N 23 33.9
Polaris	315 35.0	N 89 21.5
Acamar	315 13.9	S 40 13.1
Menkar	314 08.8	N 04 10.5
Mirfak	308 32.0	N 49 56.3
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.4
Rigel	281 06.3	S 08 10.7
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.2	S 01 11.4
Betelgeuze	270 54.7	N 07 24.6
Canopus	263 53.6	S 52 42.7
Sirius	258 28.2	S 16 44.5
Adhara	255 07.7	S 29 00.3
Castor	245 59.9	N 31 50.5
Procyon	244 53.0	N 05 10.4
Pollux	243 19.8	N 27 58.4
Avior	234 15.6	S 59 35.1
Suhail	222 47.8	S 43 31.6
Miaplacidus	221 38.3	S 69 48.8
Alphard	217 49.9	S 08 45.4
Regulus	207 36.6	N 11 51.5
Dubhe	193 43.2	N 61 38.1
Denebola	182 26.8	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 01.9	S 63 13.4
Gacrux	171 53.6	S 57 14.3
Alioth	166 14.6	N 55 50.4
Spica	158 24.4	S 11 16.7
Alkaid	152 53.3	N 49 12.2
Hadar	148 38.5	S 60 28.8
Menkent	147 59.6	S 36 28.5
Arcturus	145 49.3	N 19 04.7
Rigel Kentaurus	139 40.1	S 60 55.7
Zubenelgenubi	136 58.1	S 16 08.0
Kocab	137 18.6	N 74 03.8
Alphecca	126 05.4	N 26 38.3
Antares	112 18.4	S 26 28.8
Atria	107 14.2	S 69 03.8
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.1
Rasalhague	96 00.5	N 12 32.6
Etamin	90 42.9	N 51 28.9
Kaus Australis	83 35.3	S 34 22.3
Vega	80 34.7	N 38 47.8
Nunki	75 50.5	S 26 16.1
Albireo	67 05.8	N 28 00.1
Altair	62 02.3	N 08 55.3
Peacock	53 09.3	S 56 39.6
Deneb	49 27.4	N 45 21.2
Enif	33 41.2	N 09 58.4
Alnair	27 36.1	S 46 51.1
Formalhaut	15 17.4	S 29 30.3
Markab	13 32.4	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 96 of 365 April 6 GHA	ddGHA	day 97 of 365 April 7 GHA	ddGHA	day 98 of 365 April 8 GHA	ddGHA	day 99 of 365 April 9 GHA	ddGHA	day 100 of 365 April 10 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	194 15.8	+02.4	195 14.9	+02.5	196 14.1	+02.4	197 13.2	+02.5	198 12.3	+02.5	00
01	209 18.2	+02.5	210 17.4	+02.4	211 16.5	+02.5	212 15.7	+02.4	213 14.8	+02.5	01
02	224 20.7	+02.5	225 19.8	+02.5	226 19.0	+02.4	227 18.1	+02.5	228 17.3	+02.4	02
03	239 23.2	+02.4	240 22.3	+02.5	241 21.4	+02.5	242 20.6	+02.4	243 19.7	+02.5	03
04	254 25.6	+02.5	255 24.8	+02.4	256 23.9	+02.5	257 23.0	+02.5	258 22.2	+02.4	04
05	269 28.1	+02.5	270 27.2	+02.5	271 26.4	+02.4	272 25.5	+02.5	273 24.6	+02.5	05
06	284 30.6	+02.4	285 29.7	+02.5	286 28.8	+02.5	287 28.0	+02.4	288 27.1	+02.5	06
07	299 33.0	+02.5	300 32.2	+02.4	301 31.3	+02.5	302 30.4	+02.5	303 29.6	+02.4	07
08	314 35.5	+02.4	315 34.6	+02.5	316 33.8	+02.4	317 32.9	+02.5	318 32.0	+02.5	08
09	329 37.9	+02.5	330 37.1	+02.5	331 36.2	+02.5	332 35.4	+02.4	333 34.5	+02.5	09
10	344 40.4	+02.5	345 39.6	+02.4	346 38.7	+02.5	347 37.8	+02.5	348 37.0	+02.4	10
11	359 42.9	+02.4	0 42.0	+02.5	1 41.2	+02.4	2 40.3	+02.5	3 39.4	+02.5	11
12	14 45.3	+02.5	15 44.5	+02.4	16 43.6	+02.5	17 42.8	+02.4	18 41.9	+02.5	12
13	29 47.8	+02.5	30 46.9	+02.5	31 46.1	+02.4	32 45.2	+02.5	33 44.4	+02.4	13
14	44 50.3	+02.4	45 49.4	+02.5	46 48.5	+02.5	47 47.7	+02.5	48 46.8	+02.5	14
15	59 52.7	+02.5	60 51.9	+02.4	61 51.0	+02.5	62 50.2	+02.4	63 49.3	+02.5	15
16	74 55.2	+02.5	75 54.3	+02.5	76 53.5	+02.4	77 52.6	+02.5	78 51.8	+02.4	16
17	89 57.7	+02.4	90 56.8	+02.5	91 55.9	+02.5	92 55.1	+02.4	93 54.2	+02.5	17
18	105 00.1	+02.5	105 59.3	+02.4	106 58.4	+02.5	107 57.5	+02.5	108 56.7	+02.4	18
19	120 02.6	+02.5	121 01.7	+02.5	122 00.9	+02.4	123 00.0	+02.5	123 59.1	+02.5	19
20	135 05.1	+02.4	136 04.2	+02.5	137 03.3	+02.5	138 02.5	+02.4	139 01.6	+02.5	20
21	150 07.5	+02.5	151 06.7	+02.4	152 05.8	+02.5	153 04.9	+02.5	154 04.1	+02.4	21
22	165 10.0	+02.4	166 09.1	+02.5	167 08.3	+02.4	168 07.4	+02.5	169 06.5	+02.5	22
23	180 12.4	+02.5	181 11.6	+02.5	182 10.7	+02.5	183 09.9	+02.4	184 09.0	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.6
Ankaa	353 09.9	S 42 11.1
Schedir	349 34.2	N 56 39.4
Diphda	348 50.0	S 17 52.1
Achernar	335 22.6	S 57 07.6
Hamal	327 54.2	N 23 33.9
Polaris	315 33.0	N 89 21.6
Acamar	315 13.9	S 40 13.2
Menkar	314 08.8	N 04 10.5
Mirfak	308 31.9	N 49 56.4
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.5	N 46 01.4
Rigel	281 06.2	S 08 10.7
Bellatrix	278 25.5	N 06 22.1
Elnath	278 04.9	N 28 37.6
Alnilam	275 40.2	S 01 11.4
Betelgeuze	270 54.7	N 07 24.6
Canopus	263 53.5	S 52 42.7
Sirius	258 28.1	S 16 44.5
Adhara	255 07.7	S 29 00.4
Castor	245 59.9	N 31 50.5
Procyon	244 53.0	N 05 10.4
Pollux	243 19.7	N 27 58.4
Avior	234 15.4	S 59 35.1
Suhail	222 47.7	S 43 31.5
Miaplacidus	221 38.1	S 69 48.7
Alphard	217 49.8	S 08 45.4
Regulus	207 36.6	N 11 51.5
Dubhe	193 43.2	N 61 38.0
Denebola	182 26.8	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 01.9	S 63 13.4
Gacrux	171 53.6	S 57 14.2
Alioth	166 14.6	N 55 50.4
Spica	158 24.4	S 11 16.7
Alkaid	152 53.3	N 49 12.1
Hadar	148 38.6	S 60 28.7
Menkent	147 59.6	S 36 28.5
Arcturus	145 49.3	N 19 04.6
Rigel Kentaurus	139 40.2	S 60 55.7
Zubenelgenubi	136 58.2	S 16 08.0
Kocab	137 18.7	N 74 03.7
Alphecca	126 05.5	N 26 38.3
Antares	112 18.5	S 26 28.8
Atria	107 14.4	S 69 03.8
Sabik	102 05.3	S 15 45.2
Shaula	96 13.3	S 37 07.1
Rasalhague	96 00.6	N 12 32.5
Etamin	90 43.1	N 51 28.8
Kaus Australis	83 35.5	S 34 22.3
Vega	80 34.8	N 38 47.8
Nunki	75 50.6	S 26 16.1
Albireo	67 05.9	N 28 00.1
Altair	62 02.4	N 08 55.3
Peacock	53 09.5	S 56 39.6
Deneb	49 27.5	N 45 21.2
Enif	33 41.3	N 09 58.4
Alnair	27 36.2	S 46 51.1
Formalhaut	15 17.5	S 29 30.3
Markab	13 32.5	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 101 of 365 *April 11* GHA ° ′	ddGHA ′	day 102 of 365 *April 12* GHA ° ′	ddGHA ′	day 103 of 365 *April 13* GHA ° ′	ddGHA ′	day 104 of 365 *April 14* GHA ° ′	ddGHA ′	day 105 of 365 *April 15* GHA ° ′	ddGHA ′	UT
00	199 11.5	+02.4	200 10.6	+02.5	201 09.7	+02.5	202 08.9	+02.4	203 08.0	+02.5	00
01	214 13.9	+02.5	215 13.1	+02.4	216 12.2	+02.5	217 11.3	+02.5	218 10.5	+02.4	01
02	229 16.4	+02.5	230 15.5	+02.5	231 14.7	+02.4	232 13.8	+02.5	233 12.9	+02.5	02
03	244 18.9	+02.4	245 18.0	+02.5	246 17.1	+02.5	247 16.3	+02.4	248 15.4	+02.5	03
04	259 21.3	+02.5	260 20.5	+02.4	261 19.6	+02.5	262 18.7	+02.5	263 17.9	+02.4	04
05	274 23.8	+02.5	275 22.9	+02.5	276 22.1	+02.4	277 21.2	+02.5	278 20.3	+02.5	05
06	289 26.3	+02.4	290 25.4	+02.5	291 24.5	+02.5	292 23.7	+02.4	293 22.8	+02.5	06
07	304 28.7	+02.5	305 27.9	+02.4	306 27.0	+02.5	307 26.1	+02.5	308 25.3	+02.4	07
08	319 31.2	+02.4	320 30.3	+02.5	321 29.5	+02.4	322 28.6	+02.5	323 27.7	+02.5	08
09	334 33.6	+02.5	335 32.8	+02.4	336 31.9	+02.5	337 31.1	+02.4	338 30.2	+02.5	09
10	349 36.1	+02.5	350 35.2	+02.5	351 34.4	+02.4	352 33.5	+02.5	353 32.7	+02.4	10
11	4 38.6	+02.4	5 37.7	+02.5	6 36.8	+02.5	7 36.0	+02.5	8 35.1	+02.5	11
12	19 41.0	+02.5	20 40.2	+02.4	21 39.3	+02.5	22 38.5	+02.4	23 37.6	+02.5	12
13	34 43.5	+02.5	35 42.6	+02.5	36 41.8	+02.4	37 40.9	+02.5	38 40.1	+02.4	13
14	49 46.0	+02.4	50 45.1	+02.5	51 44.2	+02.5	52 43.4	+02.4	53 42.5	+02.5	14
15	64 48.4	+02.5	65 47.6	+02.4	66 46.7	+02.5	67 45.8	+02.5	68 45.0	+02.4	15
16	79 50.9	+02.5	80 50.0	+02.5	81 49.2	+02.4	82 48.3	+02.5	83 47.4	+02.5	16
17	94 53.4	+02.4	95 52.5	+02.5	96 51.6	+02.5	97 50.8	+02.4	98 49.9	+02.5	17
18	109 55.8	+02.5	110 55.0	+02.4	111 54.1	+02.5	112 53.2	+02.5	113 52.4	+02.4	18
19	124 58.3	+02.5	125 57.4	+02.5	126 56.6	+02.4	127 55.7	+02.5	128 54.8	+02.5	19
20	140 00.8	+02.4	140 59.9	+02.5	141 59.0	+02.5	142 58.2	+02.4	143 57.3	+02.5	20
21	155 03.2	+02.5	156 02.4	+02.4	157 01.5	+02.5	158 00.6	+02.5	158 59.8	+02.4	21
22	170 05.7	+02.4	171 04.8	+02.5	172 04.0	+02.4	173 03.1	+02.5	174 02.2	+02.5	22
23	185 08.1	+02.5	186 07.3	+02.4	187 06.4	+02.5	188 05.6	+02.4	189 04.7	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 09.9	S 42 11.1	*Acrux*	173 01.9	S 63 13.4
Schedir	349 34.2	N 56 39.4	*Gacrux*	171 53.6	S 57 14.2
Diphda	348 50.0	S 17 52.1	*Alioth*	166 14.5	N 55 50.4
Achernar	335 22.6	S 57 07.6	Spica	158 24.4	S 11 16.7
Hamal	327 54.2	N 23 33.9	*Alkaid*	152 53.3	N 49 12.1
Polaris	315 33.8	N 89 21.6	*Hadar*	148 38.6	S 60 28.7
Acamar	315 13.9	S 40 13.2	*Menkent*	147 59.6	S 36 28.5
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.3	N 19 04.6
Mirfak	308 31.9	N 49 56.4	*Rigel Kentaurus*	139 40.2	S 60 55.7
Aldebaran	290 42.5	N 16 33.2	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.5	N 46 01.4	*Kocab*	137 18.7	N 74 03.7
Rigel	281 06.2	S 08 10.7	Alphecca	126 05.4	N 26 38.3
Bellatrix	278 25.5	N 06 22.1	Antares	112 18.5	S 26 28.8
Elnath	278 04.9	N 28 37.6	*Atria*	107 14.3	S 69 03.8
Alnilam	275 40.2	S 01 11.4	Sabik	102 05.2	S 15 45.2
Betelgeuze	270 54.7	N 07 24.6	*Shaula*	96 13.3	S 37 07.1
Canopus	263 53.6	S 52 42.7	Rasalhague	96 00.5	N 12 32.5
Sirius	258 28.1	S 16 44.5	*Etamin*	90 43.0	N 51 28.8
Adhara	255 07.7	S 29 00.4	*Kaus Australis*	83 35.4	S 34 22.3
Castor	245 59.9	N 31 50.5	*Vega*	80 34.7	N 38 47.8
Procyon	244 53.0	N 05 10.4	Nunki	75 50.5	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 05.9	N 28 00.1
Avior	234 15.5	S 59 35.1	Altair	62 02.4	N 08 55.3
Suhail	222 47.8	S 43 31.6	*Peacock*	53 09.5	S 56 39.6
Miaplacidus	221 38.1	S 69 48.8	*Deneb*	49 27.5	N 45 21.2
Alphard	217 49.8	S 08 45.4	Enif	33 41.2	N 09 58.4
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.1	S 46 51.1
Dubhe	193 43.2	N 61 38.0	Formalhaut	15 17.4	S 29 30.3
Denebola	182 26.8	N 14 26.9	Markab	13 32.4	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 106 of 365 *April 16* GHA ° ′	ddGHA ′	day 107 of 365 *April 17* GHA ° ′	ddGHA ′	day 108 of 365 *April 18* GHA ° ′	ddGHA ′	day 109 of 365 *April 19* GHA ° ′	ddGHA ′	day 110 of 365 *April 20* GHA ° ′	ddGHA ′	UT
00	204 07.2	+02.4	205 06.3	+02.5	206 05.4	+02.5	207 04.6	+02.4	208 03.7	+02.5	00
01	219 09.6	+02.5	220 08.8	+02.4	221 07.9	+02.5	222 07.0	+02.5	223 06.2	+02.4	01
02	234 12.1	+02.4	235 11.2	+02.5	236 10.4	+02.4	237 09.5	+02.5	238 08.6	+02.5	02
03	249 14.5	+02.5	250 13.7	+02.4	251 12.8	+02.5	252 12.0	+02.4	253 11.1	+02.5	03
04	264 17.0	+02.5	265 16.1	+02.5	266 15.3	+02.5	267 14.4	+02.5	268 13.6	+02.4	04
05	279 19.5	+02.4	280 18.6	+02.5	281 17.8	+02.4	282 16.9	+02.5	283 16.0	+02.5	05
06	294 21.9	+02.5	295 21.1	+02.4	296 20.2	+02.5	297 19.4	+02.4	298 18.5	+02.5	06
07	309 24.4	+02.5	310 23.5	+02.5	311 22.7	+02.4	312 21.8	+02.5	313 21.0	+02.4	07
08	324 26.9	+02.4	325 26.0	+02.5	326 25.1	+02.5	327 24.3	+02.4	328 23.4	+02.5	08
09	339 29.3	+02.5	340 28.5	+02.4	341 27.6	+02.5	342 26.7	+02.5	343 25.9	+02.5	09
10	354 31.8	+02.5	355 30.9	+02.5	356 30.1	+02.4	357 29.2	+02.5	358 28.4	+02.4	10
11	9 34.3	+02.4	10 33.4	+02.5	11 32.5	+02.5	12 31.7	+02.4	13 30.8	+02.5	11
12	24 36.7	+02.5	25 35.9	+02.4	26 35.0	+02.5	27 34.1	+02.5	28 33.3	+02.4	12
13	39 39.2	+02.5	40 38.3	+02.5	41 37.5	+02.4	42 36.6	+02.5	43 35.7	+02.5	13
14	54 41.7	+02.4	55 40.8	+02.5	56 39.9	+02.5	57 39.1	+02.4	58 38.2	+02.5	14
15	69 44.1	+02.5	70 43.3	+02.4	71 42.4	+02.5	72 41.5	+02.5	73 40.7	+02.4	15
16	84 46.6	+02.4	85 45.7	+02.5	86 44.9	+02.4	87 44.0	+02.5	88 43.1	+02.5	16
17	99 49.0	+02.5	100 48.2	+02.4	101 47.3	+02.5	102 46.5	+02.4	103 45.6	+02.5	17
18	114 51.5	+02.5	115 50.6	+02.5	116 49.8	+02.4	117 48.9	+02.5	118 48.1	+02.4	18
19	129 54.0	+02.4	130 53.1	+02.5	131 52.2	+02.5	132 51.4	+02.5	133 50.5	+02.5	19
20	144 56.4	+02.5	145 55.6	+02.4	146 54.7	+02.5	147 53.9	+02.4	148 53.0	+02.5	20
21	159 58.9	+02.5	160 58.0	+02.5	161 57.2	+02.4	162 56.3	+02.5	163 55.5	+02.4	21
22	175 01.4	+02.4	176 00.5	+02.5	176 59.6	+02.5	177 58.8	+02.4	178 57.9	+02.5	22
23	190 03.8	+02.5	191 03.0	+02.4	192 02.1	+02.5	193 01.2	+02.5	194 00.4	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.5	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 09.9	S 42 11.1	*Acrux*	173 01.9	S 63 13.4
Schedir	349 34.2	N 56 39.3	*Gacrux*	171 53.6	S 57 14.2
Diphda	348 50.0	S 17 52.1	*Alioth*	166 14.6	N 55 50.4
Achernar	335 22.6	S 57 07.5	Spica	158 24.4	S 11 16.7
Hamal	327 54.2	N 23 33.9	*Alkaid*	152 53.3	N 49 12.1
Polaris	315 34.8	N 89 21.5	*Hadar*	148 38.6	S 60 28.8
Acamar	315 13.9	S 40 13.1	*Menkent*	147 59.6	S 36 28.5
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.3	N 19 04.7
Mirfak	308 32.0	N 49 56.4	*Rigel Kentaurus*	139 40.2	S 60 55.7
Aldebaran	290 42.5	N 16 33.2	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.6	N 46 01.4	*Kocab*	137 18.6	N 74 03.7
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Elnath	278 05.0	N 28 37.6	*Atria*	107 14.3	S 69 03.8
Alnilam	275 40.2	S 01 11.4	Sabik	102 05.2	S 15 45.2
Betelgeuze	270 54.7	N 07 24.6	*Shaula*	96 13.2	S 37 07.1
Canopus	263 53.6	S 52 42.7	Rasalhague	96 00.5	N 12 32.5
Sirius	258 28.2	S 16 44.5	*Etamin*	90 43.0	N 51 28.8
Adhara	255 07.7	S 29 00.4	*Kaus Australis*	83 35.4	S 34 22.3
Castor	245 59.9	N 31 50.5	*Vega*	80 34.7	N 38 47.8
Procyon	244 53.0	N 05 10.4	Nunki	75 50.5	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.9	N 28 00.1
Avior	234 15.5	S 59 35.1	Altair	62 02.3	N 08 55.3
Suhail	222 47.8	S 43 31.6	*Peacock*	53 09.4	S 56 39.6
Miaplacidus	221 38.2	S 69 48.8	*Deneb*	49 27.4	N 45 21.2
Alphard	217 49.8	S 08 45.4	Enif	33 41.2	N 09 58.4
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.1	S 46 51.1
Dubhe	193 43.2	N 61 38.1	Formalhaut	15 17.4	S 29 30.3
Denebola	182 26.8	N 14 26.9	Markab	13 32.4	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 131 of 365 May 11 GHA	ddGHA	day 132 of 365 May 12 GHA	ddGHA	day 133 of 365 May 13 GHA	ddGHA	day 134 of 365 May 14 GHA	ddGHA	day 135 of 365 May 15 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	228 45.6	+02.5	229 44.8	+02.4	230 43.9	+02.5	231 43.0	+02.5	232 42.2	+02.4	00
01	243 48.1	+02.5	244 47.2	+02.5	245 46.4	+02.4	246 45.5	+02.5	247 44.6	+02.5	01
02	258 50.6	+02.4	259 49.7	+02.5	260 48.8	+02.5	261 48.0	+02.4	262 47.1	+02.5	02
03	273 53.0	+02.5	274 52.2	+02.4	275 51.3	+02.5	276 50.4	+02.5	277 49.6	+02.4	03
04	288 55.5	+02.5	289 54.6	+02.5	290 53.8	+02.4	291 52.9	+02.5	292 52.0	+02.5	04
05	303 58.0	+02.4	304 57.1	+02.5	305 56.2	+02.5	306 55.4	+02.4	307 54.5	+02.5	05
06	319 00.4	+02.5	319 59.6	+02.4	320 58.7	+02.5	321 57.8	+02.5	322 57.0	+02.4	06
07	334 02.9	+02.4	335 02.0	+02.5	336 01.2	+02.4	337 00.3	+02.5	337 59.4	+02.5	07
08	349 05.3	+02.5	350 04.5	+02.4	351 03.6	+02.5	352 02.8	+02.4	353 01.9	+02.5	08
09	4 07.8	+02.5	5 06.9	+02.5	6 06.1	+02.4	7 05.2	+02.5	8 04.4	+02.4	09
10	19 10.3	+02.4	20 09.4	+02.5	21 08.5	+02.5	22 07.7	+02.4	23 06.8	+02.5	10
11	34 12.7	+02.5	35 11.9	+02.4	36 11.0	+02.5	37 10.1	+02.5	38 09.3	+02.4	11
12	49 15.2	+02.5	50 14.3	+02.5	51 13.5	+02.4	52 12.6	+02.5	53 11.7	+02.5	12
13	64 17.7	+02.4	65 16.8	+02.5	66 15.9	+02.5	67 15.1	+02.4	68 14.2	+02.5	13
14	79 20.1	+02.5	80 19.3	+02.4	81 18.4	+02.5	82 17.5	+02.5	83 16.7	+02.4	14
15	94 22.6	+02.5	95 21.7	+02.5	96 20.9	+02.4	97 20.0	+02.5	98 19.1	+02.5	15
16	109 25.1	+02.4	110 24.2	+02.5	111 23.3	+02.5	112 22.5	+02.4	113 21.6	+02.5	16
17	124 27.5	+02.5	125 26.7	+02.4	126 25.8	+02.5	127 24.9	+02.5	128 24.1	+02.4	17
18	139 30.0	+02.4	140 29.1	+02.5	141 28.3	+02.4	142 27.4	+02.5	143 26.5	+02.5	18
19	154 32.4	+02.5	155 31.6	+02.4	156 30.7	+02.5	157 29.9	+02.4	158 29.0	+02.5	19
20	169 34.9	+02.5	170 34.0	+02.5	171 33.2	+02.4	172 32.3	+02.5	173 31.5	+02.4	20
21	184 37.4	+02.4	185 36.5	+02.5	186 35.6	+02.5	187 34.8	+02.5	188 33.9	+02.5	21
22	199 39.8	+02.5	200 39.0	+02.4	201 38.1	+02.5	202 37.3	+02.4	203 36.4	+02.5	22
23	214 42.3	+02.5	215 41.4	+02.5	216 40.6	+02.4	217 39.7	+02.5	218 38.9	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.3	N 29 12.6
Ankaa	353 09.8	S 42 10.9
Schedir	349 34.0	N 56 39.3
Diphda	348 49.9	S 17 52.0
Achernar	335 22.5	S 57 07.4
Hamal	327 54.1	N 23 33.9
Polaris	315 34.8	N 89 21.4
Acamar	315 13.9	S 40 13.0
Menkar	314 08.8	N 04 10.5
Mirfak	308 31.9	N 49 56.3
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.4
Rigel	281 06.3	S 08 10.7
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.3	S 01 11.4
Betelgeuze	270 54.8	N 07 24.6
Canopus	263 53.8	S 52 42.7
Sirius	258 28.2	S 16 44.5
Adhara	255 07.8	S 29 00.3
Castor	246 00.0	N 31 50.5
Procyon	244 53.1	N 05 10.4
Pollux	243 19.9	N 27 58.4
Avior	234 15.8	S 59 35.1
Suhail	222 47.9	S 43 31.6
Miaplacidus	221 38.6	S 69 48.8
Alphard	217 49.9	S 08 45.4
Regulus	207 36.6	N 11 51.5
Dubhe	193 43.4	N 61 38.1
Denebola	182 26.9	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 02.0	S 63 13.5
Gacrux	171 53.7	S 57 14.4
Alioth	166 14.6	N 55 50.5
Spica	158 24.3	S 11 16.7
Alkaid	152 53.3	N 49 12.2
Hadar	148 38.5	S 60 28.9
Menkent	147 59.5	S 36 28.6
Arcturus	145 49.2	N 19 04.7
Rigel Kentaurus	139 40.1	S 60 55.8
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 18.6	N 74 03.9
Alphecca	126 05.3	N 26 38.4
Antares	112 18.3	S 26 28.9
Atria	107 13.9	S 69 03.9
Sabik	102 05.0	S 15 45.2
Shaula	96 13.0	S 37 07.1
Rasalhague	96 00.3	N 12 32.6
Etamin	90 42.8	N 51 28.9
Kaus Australis	83 35.2	S 34 22.3
Vega	80 34.5	N 38 47.9
Nunki	75 50.3	S 26 16.1
Albireo	67 05.7	N 28 00.1
Altair	62 02.1	N 08 55.3
Peacock	53 09.1	S 56 39.6
Deneb	49 27.2	N 45 21.2
Enif	33 41.0	N 09 58.4
Alnair	27 35.9	S 46 51.0
Formalhaut	15 17.2	S 29 30.2
Markab	13 32.3	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 116 of 365 April 26 GHA	ddGHA	day 117 of 365 April 27 GHA	ddGHA	day 118 of 365 April 28 GHA	ddGHA	day 119 of 365 April 29 GHA	ddGHA	day 120 of 365 April 30 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	213 58.5	+02.5	214 57.7	+02.5	215 56.8	+02.5	216 56.0	+02.4	217 55.1	+02.5	00
01	229 01.0	+02.5	230 00.2	+02.4	230 59.3	+02.5	231 58.4	+02.5	232 57.6	+02.4	01
02	244 03.5	+02.4	245 02.6	+02.5	246 01.8	+02.4	247 00.9	+02.5	248 00.0	+02.5	02
03	259 05.9	+02.5	260 05.1	+02.4	261 04.2	+02.5	262 03.4	+02.4	263 02.5	+02.5	03
04	274 08.4	+02.5	275 07.5	+02.5	276 06.7	+02.4	277 05.8	+02.5	278 05.0	+02.4	04
05	289 10.9	+02.4	290 10.0	+02.5	291 09.1	+02.5	292 08.3	+02.4	293 07.4	+02.5	05
06	304 13.3	+02.5	305 12.5	+02.4	306 11.6	+02.5	307 10.7	+02.5	308 09.9	+02.4	06
07	319 15.8	+02.5	320 14.9	+02.5	321 14.1	+02.4	322 13.2	+02.5	323 12.3	+02.5	07
08	334 18.3	+02.4	335 17.4	+02.5	336 16.5	+02.5	337 15.7	+02.4	338 14.8	+02.5	08
09	349 20.7	+02.5	350 19.9	+02.4	351 19.0	+02.5	352 18.1	+02.5	353 17.3	+02.4	09
10	4 23.2	+02.5	5 22.3	+02.5	6 21.5	+02.4	7 20.6	+02.5	8 19.7	+02.5	10
11	19 25.7	+02.4	20 24.8	+02.5	21 23.9	+02.5	22 23.1	+02.4	23 22.2	+02.5	11
12	34 28.1	+02.5	35 27.3	+02.4	36 26.4	+02.5	37 25.5	+02.5	38 24.7	+02.4	12
13	49 30.6	+02.4	50 29.7	+02.5	51 28.9	+02.4	52 28.0	+02.5	53 27.1	+02.5	13
14	64 33.0	+02.5	65 32.2	+02.4	66 31.3	+02.5	67 30.5	+02.4	68 29.6	+02.5	14
15	79 35.5	+02.5	80 34.6	+02.5	81 33.8	+02.4	82 32.9	+02.5	83 32.1	+02.4	15
16	94 38.0	+02.4	95 37.1	+02.5	96 36.2	+02.5	97 35.4	+02.4	98 34.5	+02.5	16
17	109 40.4	+02.5	110 39.6	+02.4	111 38.7	+02.5	112 37.8	+02.5	113 37.0	+02.5	17
18	124 42.9	+02.5	125 42.0	+02.5	126 41.2	+02.4	127 40.3	+02.5	128 39.5	+02.4	18
19	139 45.4	+02.4	140 44.5	+02.5	141 43.6	+02.5	142 42.8	+02.4	143 41.9	+02.5	19
20	154 47.8	+02.5	155 47.0	+02.4	156 46.1	+02.5	157 45.2	+02.5	158 44.4	+02.4	20
21	169 50.3	+02.5	170 49.4	+02.5	171 48.6	+02.4	172 47.7	+02.5	173 46.8	+02.5	21
22	184 52.8	+02.4	185 51.9	+02.5	186 51.0	+02.5	187 50.2	+02.4	188 49.3	+02.5	22
23	199 55.2	+02.5	200 54.4	+02.4	201 53.5	+02.5	202 52.6	+02.5	203 51.8	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.4	N 29 12.6
Ankaa	353 09.9	S 42 11.0
Schedir	349 34.1	N 56 39.3
Diphda	348 49.9	S 17 52.0
Achernar	335 22.5	S 57 07.5
Hamal	327 54.1	N 23 33.9
Polaris	315 35.3	N 89 21.5
Acamar	315 13.9	S 40 13.1
Menkar	314 08.8	N 04 10.5
Mirfak	308 32.0	N 49 56.3
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.4
Rigel	281 06.3	S 08 10.7
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.2	S 01 11.4
Betelgeuze	270 54.7	N 07 24.6
Canopus	263 53.7	S 52 42.7
Sirius	258 28.2	S 16 44.5
Adhara	255 07.8	S 29 00.3
Castor	245 60.0	N 31 50.5
Procyon	244 53.0	N 05 10.4
Pollux	243 19.8	N 27 58.4
Avior	234 15.6	S 59 35.1
Suhail	222 47.9	S 43 31.6
Miaplacidus	221 38.4	S 69 48.8
Alphard	217 49.9	S 08 45.4
Regulus	207 36.6	N 11 51.5
Dubhe	193 43.3	N 61 38.1
Denebola	182 26.8	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 01.9	S 63 13.5
Gacrux	171 53.6	S 57 14.3
Alioth	166 14.6	N 55 50.5
Spica	158 24.3	S 11 16.7
Alkaid	152 53.3	N 49 12.2
Hadar	148 38.5	S 60 28.8
Menkent	147 59.6	S 36 28.5
Arcturus	145 49.3	N 19 04.7
Rigel Kentaurus	139 40.1	S 60 55.8
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 18.6	N 74 03.8
Alphecca	126 05.4	N 26 38.3
Antares	112 18.4	S 26 28.8
Atria	107 14.1	S 69 03.8
Sabik	102 05.1	S 15 45.2
Shaula	96 13.1	S 37 07.1
Rasalhague	96 00.4	N 12 32.6
Etamin	90 42.9	N 51 28.9
Kaus Australis	83 35.3	S 34 22.3
Vega	80 34.6	N 38 47.9
Nunki	75 50.4	S 26 16.1
Albireo	67 05.8	N 28 00.1
Altair	62 02.3	N 08 55.3
Peacock	53 09.3	S 56 39.6
Deneb	49 27.3	N 45 21.2
Enif	33 41.1	N 09 58.4
Alnair	27 36.0	S 46 51.1
Formalhaut	15 17.3	S 29 30.2
Markab	13 32.4	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 121 of 365 May 1 GHA	ddGHA	day 122 of 365 May 2 GHA	ddGHA	day 123 of 365 May 3 GHA	ddGHA	day 124 of 365 May 4 GHA	ddGHA	day 125 of 365 May 5 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	218 54.2	+02.5	219 53.4	+02.4	220 52.5	+02.5	221 51.7	+02.4	222 50.8	+02.5	00
01	233 56.7	+02.5	234 55.8	+02.5	235 55.0	+02.4	236 54.1	+02.5	237 53.3	+02.4	01
02	248 59.2	+02.4	249 58.3	+02.5	250 57.4	+02.5	251 56.6	+02.4	252 55.7	+02.5	02
03	264 01.6	+02.5	265 00.8	+02.4	265 59.9	+02.5	266 59.0	+02.5	267 58.2	+02.5	03
04	279 04.1	+02.5	280 03.2	+02.5	281 02.4	+02.4	282 01.5	+02.5	283 00.7	+02.4	04
05	294 06.6	+02.5	295 05.7	+02.5	296 04.8	+02.5	297 04.0	+02.4	298 03.1	+02.5	05
06	309 09.0	+02.5	310 08.2	+02.4	311 07.3	+02.5	312 06.4	+02.5	313 05.6	+02.4	06
07	324 11.5	+02.4	325 10.6	+02.5	326 09.8	+02.4	327 08.9	+02.5	328 08.0	+02.5	07
08	339 13.9	+02.5	340 13.1	+02.5	341 12.2	+02.5	342 11.4	+02.4	343 10.5	+02.5	08
09	354 16.4	+02.5	355 15.6	+02.4	356 14.7	+02.5	357 13.8	+02.5	358 13.0	+02.4	09
10	9 18.9	+02.4	10 18.0	+02.5	11 17.2	+02.4	12 16.3	+02.5	13 15.4	+02.5	10
11	24 21.3	+02.5	25 20.5	+02.4	26 19.6	+02.5	27 18.8	+02.4	28 17.9	+02.5	11
12	39 23.8	+02.5	40 22.9	+02.5	41 22.1	+02.4	42 21.2	+02.5	43 20.4	+02.4	12
13	54 26.3	+02.4	55 25.4	+02.5	56 24.5	+02.5	57 23.7	+02.5	58 22.8	+02.5	13
14	69 28.7	+02.5	70 27.9	+02.4	71 27.0	+02.5	72 26.2	+02.4	73 25.3	+02.5	14
15	84 31.2	+02.5	85 30.3	+02.5	86 29.5	+02.4	87 28.6	+02.5	88 27.8	+02.4	15
16	99 33.7	+02.4	100 32.8	+02.5	101 31.9	+02.5	102 31.1	+02.4	103 30.2	+02.5	16
17	114 36.1	+02.5	115 35.3	+02.4	116 34.4	+02.5	117 33.5	+02.5	118 32.7	+02.4	17
18	129 38.6	+02.5	130 37.7	+02.5	131 36.9	+02.4	132 36.0	+02.5	133 35.1	+02.5	18
19	144 41.1	+02.4	145 40.2	+02.5	146 39.3	+02.5	147 38.5	+02.4	148 37.6	+02.5	19
20	159 43.5	+02.5	160 42.7	+02.4	161 41.8	+02.5	162 40.9	+02.5	163 40.1	+02.4	20
21	174 46.0	+02.4	175 45.1	+02.5	176 44.3	+02.4	177 43.4	+02.5	178 42.5	+02.5	21
22	189 48.4	+02.5	190 47.6	+02.4	191 46.7	+02.5	192 45.9	+02.4	193 45.0	+02.5	22
23	204 50.9	+02.5	205 50.0	+02.5	206 49.2	+02.5	207 48.3	+02.5	208 47.5	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.4	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 09.8	S 42 11.0	*Acrux*	173 02.0	S 63 13.5
Schedir	349 34.1	N 56 39.3	*Gacrux*	171 53.7	S 57 14.3
Diphda	348 49.9	S 17 52.0	*Alioth*	166 14.6	N 55 50.5
Achernar	335 22.5	S 57 07.4	Spica	158 24.3	S 11 16.7
Hamal	327 54.1	N 23 33.9	*Alkaid*	152 53.3	N 49 12.2
Polaris	315 35.5	N 89 21.4	*Hadar*	148 38.5	S 60 28.8
Acamar	315 13.9	S 40 13.1	*Menkent*	147 59.6	S 36 28.5
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.3	N 19 04.7
Mirfak	308 32.0	N 49 56.3	*Rigel Kentaurus*	139 40.1	S 60 55.8
Aldebaran	290 42.5	N 16 33.2	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.6	N 46 01.4	*Kocab*	137 18.6	N 74 03.8
Rigel	281 06.3	S 08 10.7	Alphecca	126 05.3	N 26 38.3
Bellatrix	278 25.5	N 06 22.1	Antares	112 18.4	S 26 28.8
Elnath	278 05.0	N 28 37.6	*Atria*	107 14.1	S 69 03.9
Alnilam	275 40.3	S 01 11.4	Sabik	102 05.1	S 15 45.2
Betelgeuze	270 54.8	N 07 24.6	*Shaula*	96 13.1	S 37 07.1
Canopus	263 53.7	S 52 42.7	Rasalhague	96 00.4	N 12 32.6
Sirius	258 28.2	S 16 44.5	*Etamin*	90 42.9	N 51 28.9
Adhara	255 07.8	S 29 00.3	*Kaus Australis*	83 35.2	S 34 22.3
Castor	245 60.0	N 31 50.5	*Vega*	80 34.6	N 38 47.9
Procyon	244 53.1	N 05 10.4	Nunki	75 50.4	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.7	N 28 00.1
Avior	234 15.7	S 59 35.1	Altair	62 02.2	N 08 55.3
Suhail	222 47.9	S 43 31.6	*Peacock*	53 09.2	S 56 39.6
Miaplacidus	221 38.4	S 69 48.8	*Deneb*	49 27.3	N 45 21.2
Alphard	217 49.9	S 08 45.4	Enif	33 41.1	N 09 58.4
Regulus	207 36.6	N 11 51.5	*Alnair*	27 36.0	S 46 51.0
Dubhe	193 43.3	N 61 38.1	Formalhaut	15 17.3	S 29 30.2
Denebola	182 26.8	N 14 26.9	Markab	13 32.3	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 126 of 365 May 6 GHA	ddGHA	day 127 of 365 May 7 GHA	ddGHA	day 128 of 365 May 8 GHA	ddGHA	day 129 of 365 May 9 GHA	ddGHA	day 130 of 365 May 10 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	223 49.9	+02.5	224 49.1	+02.4	225 48.2	+02.5	226 47.4	+02.4	227 46.5	+02.5	00
01	238 52.4	+02.5	239 51.5	+02.5	240 50.7	+02.4	241 49.8	+02.5	242 49.0	+02.4	01
02	253 54.9	+02.4	254 54.0	+02.5	255 53.1	+02.5	256 52.3	+02.4	257 51.4	+02.5	02
03	268 57.3	+02.5	269 56.5	+02.4	270 55.6	+02.5	271 54.7	+02.5	272 53.9	+02.4	03
04	283 59.8	+02.5	284 58.9	+02.5	285 58.1	+02.4	286 57.2	+02.5	287 56.3	+02.5	04
05	299 02.3	+02.4	300 01.4	+02.5	301 00.5	+02.5	301 59.7	+02.4	302 58.8	+02.5	05
06	314 04.7	+02.5	315 03.9	+02.4	316 03.0	+02.5	317 02.1	+02.5	318 01.3	+02.4	06
07	329 07.2	+02.4	330 06.3	+02.5	331 05.5	+02.4	332 04.6	+02.5	333 03.7	+02.5	07
08	344 09.6	+02.5	345 08.8	+02.5	346 07.9	+02.5	347 07.1	+02.4	348 06.2	+02.5	08
09	359 12.1	+02.5	0 11.3	+02.4	1 10.4	+02.5	2 09.5	+02.5	3 08.7	+02.4	09
10	14 14.6	+02.4	15 13.7	+02.5	16 12.9	+02.4	17 12.0	+02.5	18 11.1	+02.5	10
11	29 17.0	+02.5	30 16.2	+02.4	31 15.3	+02.5	32 14.5	+02.4	33 13.6	+02.5	11
12	44 19.5	+02.5	45 18.6	+02.5	46 17.8	+02.4	47 16.9	+02.5	48 16.1	+02.4	12
13	59 22.0	+02.4	60 21.1	+02.5	61 20.2	+02.5	62 19.4	+02.5	63 18.5	+02.5	13
14	74 24.4	+02.5	75 23.6	+02.4	76 22.7	+02.5	77 21.9	+02.4	78 21.0	+02.5	14
15	89 26.9	+02.5	90 26.0	+02.5	91 25.2	+02.4	92 24.3	+02.5	93 23.5	+02.4	15
16	104 29.4	+02.4	105 28.5	+02.5	106 27.6	+02.5	107 26.8	+02.4	108 25.9	+02.5	16
17	119 31.8	+02.5	120 31.0	+02.4	121 30.1	+02.5	122 29.2	+02.5	123 28.4	+02.4	17
18	134 34.3	+02.5	135 33.4	+02.5	136 32.6	+02.4	137 31.7	+02.5	138 30.8	+02.5	18
19	149 36.8	+02.4	150 35.9	+02.5	151 35.0	+02.5	152 34.2	+02.4	153 33.3	+02.5	19
20	164 39.2	+02.5	165 38.4	+02.4	166 37.5	+02.5	167 36.6	+02.5	168 35.8	+02.4	20
21	179 41.7	+02.4	180 40.8	+02.5	181 40.0	+02.4	182 39.1	+02.5	183 38.2	+02.5	21
22	194 44.1	+02.5	195 43.3	+02.4	196 42.4	+02.5	197 41.6	+02.4	198 40.7	+02.5	22
23	209 46.6	+02.5	210 45.7	+02.5	211 44.9	+02.5	212 44.0	+02.5	213 43.2	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.4	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 09.8	S 42 11.0	*Acrux*	173 02.0	S 63 13.5
Schedir	349 34.1	N 56 39.3	*Gacrux*	171 53.7	S 57 14.3
Diphda	348 49.9	S 17 52.0	*Alioth*	166 14.6	N 55 50.5
Achernar	335 22.5	S 57 07.4	Spica	158 24.3	S 11 16.7
Hamal	327 54.1	N 23 33.9	*Alkaid*	152 53.3	N 49 12.2
Polaris	315 35.0	N 89 21.4	*Hadar*	148 38.5	S 60 28.9
Acamar	315 13.9	S 40 13.0	*Menkent*	147 59.6	S 36 28.6
Menkar	314 08.8	N 04 10.5	Arcturus	145 49.3	N 19 04.7
Mirfak	308 31.9	N 49 56.3	*Rigel Kentaurus*	139 40.1	S 60 55.8
Aldebaran	290 42.5	N 16 33.2	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.6	N 46 01.4	*Kocab*	137 18.6	N 74 03.9
Rigel	281 06.3	S 08 10.7	Alphecca	126 05.3	N 26 38.4
Bellatrix	278 25.5	N 06 22.1	Antares	112 18.3	S 26 28.9
Elnath	278 05.0	N 28 37.6	*Atria*	107 14.0	S 69 03.9
Alnilam	275 40.3	S 01 11.4	Sabik	102 05.1	S 15 45.2
Betelgeuze	270 54.8	N 07 24.6	*Shaula*	96 13.1	S 37 07.1
Canopus	263 53.7	S 52 42.7	Rasalhague	96 00.4	N 12 32.6
Sirius	258 28.2	S 16 44.5	*Etamin*	90 42.8	N 51 28.9
Adhara	255 07.8	S 29 00.3	*Kaus Australis*	83 35.2	S 34 22.3
Castor	245 60.0	N 31 50.5	*Vega*	80 34.5	N 38 47.9
Procyon	244 53.1	N 05 10.4	Nunki	75 50.3	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.7	N 28 00.1
Avior	234 15.7	S 59 35.1	Altair	62 02.2	N 08 55.3
Suhail	222 47.9	S 43 31.6	*Peacock*	53 09.1	S 56 39.6
Miaplacidus	221 38.5	S 69 48.8	*Deneb*	49 27.2	N 45 21.2
Alphard	217 49.9	S 08 45.4	Enif	33 41.0	N 09 58.4
Regulus	207 36.6	N 11 51.5	*Alnair*	27 35.9	S 46 51.0
Dubhe	193 43.3	N 61 38.1	Formalhaut	15 17.3	S 29 30.2
Denebola	182 26.9	N 14 26.9	Markab	13 32.3	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 151 of 365 May 31 GHA	ddGHA	day 152 of 365 June 1 GHA	ddGHA	day 153 of 365 June 2 GHA	ddGHA	day 154 of 365 June 3 GHA	ddGHA	day 155 of 365 June 4 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	248 28.4	+02.5	249 27.6	+02.4	250 26.7	+02.5	251 25.8	+02.5	252 25.0	+02.4	00
01	263 30.9	+02.4	264 30.0	+02.5	265 29.2	+02.4	266 28.3	+02.5	267 27.4	+02.5	01
02	278 33.3	+02.5	279 32.5	+02.4	280 31.6	+02.5	281 30.8	+02.4	282 29.9	+02.5	02
03	293 35.8	+02.5	294 34.9	+02.5	295 34.1	+02.5	296 33.2	+02.5	297 32.4	+02.4	03
04	308 38.3	+02.4	309 37.4	+02.5	310 36.6	+02.4	311 35.7	+02.5	312 34.8	+02.5	04
05	323 40.7	+02.4	324 39.9	+02.4	325 39.0	+02.5	326 38.2	+02.4	327 37.3	+02.5	05
06	338 43.2	+02.5	339 42.3	+02.5	340 41.5	+02.4	341 40.6	+02.5	342 39.8	+02.4	06
07	353 45.7	+02.4	354 44.8	+02.5	355 43.9	+02.5	356 43.1	+02.4	357 42.2	+02.5	07
08	8 48.1	+02.5	9 47.3	+02.4	10 46.4	+02.5	11 45.5	+02.5	12 44.7	+02.5	08
09	23 50.6	+02.5	24 49.7	+02.5	25 48.9	+02.4	26 48.0	+02.5	27 47.2	+02.4	09
10	38 53.1	+02.4	39 52.2	+02.5	40 51.3	+02.5	41 50.5	+02.4	42 49.6	+02.5	10
11	53 55.5	+02.5	54 54.7	+02.4	55 53.8	+02.5	56 52.9	+02.5	57 52.1	+02.4	11
12	68 58.0	+02.4	69 57.1	+02.5	70 56.3	+02.4	71 55.4	+02.5	72 54.5	+02.5	12
13	84 00.4	+02.5	84 59.6	+02.5	85 58.7	+02.5	86 57.9	+02.4	87 57.0	+02.5	13
14	99 02.9	+02.5	100 02.1	+02.4	101 01.2	+02.5	102 00.3	+02.5	102 59.5	+02.4	14
15	114 05.4	+02.4	115 04.5	+02.5	116 03.7	+02.4	117 02.8	+02.5	118 01.9	+02.5	15
16	129 07.8	+02.5	130 07.0	+02.4	131 06.1	+02.5	132 05.3	+02.4	133 04.4	+02.5	16
17	144 10.3	+02.5	145 09.4	+02.5	146 08.6	+02.4	147 07.7	+02.5	148 06.9	+02.4	17
18	159 12.8	+02.4	160 11.9	+02.5	161 11.0	+02.5	162 10.2	+02.5	163 09.3	+02.5	18
19	174 15.2	+02.5	175 14.4	+02.4	176 13.5	+02.5	177 12.7	+02.4	178 11.8	+02.5	19
20	189 17.7	+02.5	190 16.8	+02.5	191 16.0	+02.4	192 15.1	+02.5	193 14.3	+02.4	20
21	204 20.2	+02.4	205 19.3	+02.5	206 18.4	+02.5	207 17.6	+02.4	208 16.7	+02.5	21
22	219 22.6	+02.5	220 21.8	+02.4	221 20.9	+02.5	222 20.0	+02.5	223 19.2	+02.5	22
23	234 25.1	+02.5	235 24.2	+02.5	236 23.4	+02.4	237 22.5	+02.5	238 21.7	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.2	N 29 12.6
Ankaa	353 09.6	S 42 10.8
Schedir	349 33.8	N 56 39.3
Diphda	348 49.7	S 17 51.9
Achernar	335 22.3	S 57 07.3
Hamal	327 54.0	N 23 33.9
Polaris	315 30.9	N 89 21.3
Acamar	315 13.8	S 40 12.9
Menkar	314 08.7	N 04 10.6
Mirfak	308 31.8	N 49 56.2
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.3
Rigel	281 06.3	S 08 10.6
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.3	S 01 11.3
Betelgeuze	270 54.8	N 07 24.6
Canopus	263 53.9	S 52 42.6
Sirius	258 28.3	S 16 44.4
Adhara	255 07.9	S 29 00.2
Castor	246 00.1	N 31 50.5
Procyon	244 53.1	N 05 10.4
Pollux	243 19.9	N 27 58.4
Avior	234 16.0	S 59 35.1
Suhail	222 48.1	S 43 31.6
Miaplacidus	221 38.9	S 69 48.8
Alphard	217 50.0	S 08 45.4
Regulus	207 36.7	N 11 51.6
Dubhe	193 43.5	N 61 38.2
Denebola	182 26.9	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 02.1	S 63 13.6
Gacrux	171 53.8	S 57 14.4
Alioth	166 14.7	N 55 50.6
Spica	158 24.4	S 11 16.7
Alkaid	152 53.3	N 49 12.3
Hadar	148 38.5	S 60 29.0
Menkent	147 59.5	S 36 28.6
Arcturus	145 49.3	N 19 04.8
Rigel Kentaurus	139 40.1	S 60 55.9
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 18.7	N 74 04.0
Alphecca	126 05.3	N 26 38.4
Antares	112 18.2	S 26 28.9
Atria	107 13.7	S 69 04.0
Sabik	102 04.9	S 15 45.2
Shaula	96 12.9	S 37 07.1
Rasalhague	96 00.3	N 12 32.7
Etamin	90 42.7	N 51 29.0
Kaus Australis	83 35.0	S 34 22.3
Vega	80 34.4	N 38 48.0
Nunki	75 50.1	S 26 16.1
Albireo	67 05.5	N 28 00.2
Altair	62 02.0	N 08 55.4
Peacock	53 08.8	S 56 39.6
Deneb	49 27.0	N 45 21.3
Enif	33 40.8	N 09 58.5
Alnair	27 35.6	S 46 51.0
Formalhaut	15 17.1	S 29 30.1
Markab	13 32.1	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 136 of 365 May 16 GHA	ddGHA	day 137 of 365 May 17 GHA	ddGHA	day 138 of 365 May 18 GHA	ddGHA	day 139 of 365 May 19 GHA	ddGHA	day 140 of 365 May 20 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	233 41.3	+02.5	234 40.5	+02.4	235 39.6	+02.5	236 38.7	+02.5	237 37.9	+02.4	00
01	248 43.8	+02.4	249 42.9	+02.5	250 42.1	+02.4	251 41.2	+02.5	252 40.3	+02.5	01
02	263 46.2	+02.5	264 45.4	+02.5	265 44.5	+02.5	266 43.7	+02.4	267 42.8	+02.5	02
03	278 48.7	+02.5	279 47.9	+02.4	280 47.0	+02.5	281 46.1	+02.5	282 45.3	+02.4	03
04	293 51.2	+02.4	294 50.3	+02.5	295 49.5	+02.4	296 48.6	+02.5	297 47.7	+02.5	04
05	308 53.6	+02.5	309 52.8	+02.4	310 51.9	+02.5	311 51.1	+02.4	312 50.2	+02.5	05
06	323 56.1	+02.5	324 55.2	+02.5	325 54.4	+02.5	326 53.5	+02.5	327 52.7	+02.4	06
07	338 58.6	+02.4	339 57.7	+02.5	340 56.9	+02.4	341 56.0	+02.5	342 55.1	+02.5	07
08	354 01.0	+02.5	355 00.2	+02.4	355 59.3	+02.5	356 58.5	+02.4	357 57.6	+02.5	08
09	9 03.5	+02.5	10 02.6	+02.5	11 01.8	+02.4	12 00.9	+02.5	13 00.1	+02.4	09
10	24 06.0	+02.4	25 05.1	+02.5	26 04.2	+02.5	27 03.4	+02.4	28 02.5	+02.5	10
11	39 08.4	+02.5	40 07.6	+02.4	41 06.7	+02.5	42 05.8	+02.5	43 05.0	+02.5	11
12	54 10.9	+02.5	55 10.0	+02.5	56 09.2	+02.4	57 08.3	+02.5	58 07.5	+02.4	12
13	69 13.4	+02.4	70 12.5	+02.5	71 11.6	+02.5	72 10.8	+02.4	73 09.9	+02.5	13
14	84 15.8	+02.5	85 15.0	+02.4	86 14.1	+02.5	87 13.2	+02.5	88 12.4	+02.4	14
15	99 18.3	+02.4	100 17.4	+02.5	101 16.6	+02.4	102 15.7	+02.5	103 14.8	+02.5	15
16	114 20.7	+02.5	115 19.9	+02.5	116 19.0	+02.5	117 18.2	+02.4	118 17.3	+02.5	16
17	129 23.2	+02.5	130 22.4	+02.4	131 21.5	+02.5	132 20.6	+02.5	133 19.8	+02.4	17
18	144 25.7	+02.4	145 24.8	+02.5	146 24.0	+02.4	147 23.1	+02.5	148 22.2	+02.5	18
19	159 28.1	+02.5	160 27.3	+02.4	161 26.4	+02.5	162 25.6	+02.4	163 24.7	+02.5	19
20	174 30.6	+02.5	175 29.7	+02.5	176 28.9	+02.5	177 28.0	+02.5	178 27.2	+02.4	20
21	189 33.1	+02.4	190 32.2	+02.5	191 31.4	+02.4	192 30.5	+02.5	193 29.6	+02.5	21
22	204 35.5	+02.5	205 34.7	+02.4	206 33.8	+02.5	207 33.0	+02.4	208 32.1	+02.5	22
23	219 38.0	+02.5	220 37.1	+02.5	221 36.3	+02.4	222 35.4	+02.5	223 34.6	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.3	N 29 12.6
Ankaa	353 09.7	S 42 10.9
Schedir	349 34.0	N 56 39.3
Diphda	348 49.8	S 17 51.9
Achernar	335 22.4	S 57 07.4
Hamal	327 54.1	N 23 33.9
Polaris	315 34.2	N 89 21.4
Acamar	315 13.9	S 40 13.0
Menkar	314 08.8	N 04 10.5
Mirfak	308 31.9	N 49 56.3
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.4
Rigel	281 06.3	S 08 10.7
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.3	S 01 11.4
Betelgeuze	270 54.8	N 07 24.6
Canopus	263 53.8	S 52 42.6
Sirius	258 28.3	S 16 44.5
Adhara	255 07.8	S 29 00.3
Castor	246 00.0	N 31 50.5
Procyon	244 53.1	N 05 10.4
Pollux	243 19.9	N 27 58.4
Avior	234 15.8	S 59 35.1
Suhail	222 48.0	S 43 31.6
Miaplacidus	221 38.7	S 69 48.8
Alphard	217 50.0	S 08 45.4
Regulus	207 36.7	N 11 51.5
Dubhe	193 43.4	N 61 38.1
Denebola	182 26.9	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 02.0	S 63 13.5
Gacrux	171 53.7	S 57 14.4
Alioth	166 14.6	N 55 50.5
Spica	158 24.3	S 11 16.7
Alkaid	152 53.3	N 49 12.3
Hadar	148 38.5	S 60 28.9
Menkent	147 59.5	S 36 28.6
Arcturus	145 49.3	N 19 04.7
Rigel Kentaurus	139 40.1	S 60 55.9
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 18.6	N 74 03.9
Alphecca	126 05.3	N 26 38.4
Antares	112 18.3	S 26 28.9
Atria	107 13.9	S 69 03.9
Sabik	102 05.0	S 15 45.2
Shaula	96 13.0	S 37 07.1
Rasalhague	96 00.3	N 12 32.6
Etamin	90 42.8	N 51 29.0
Kaus Australis	83 35.1	S 34 22.3
Vega	80 34.5	N 38 47.9
Nunki	75 50.3	S 26 16.1
Albireo	67 05.6	N 28 00.2
Altair	62 02.1	N 08 55.3
Peacock	53 09.0	S 56 39.6
Deneb	49 27.2	N 45 21.3
Enif	33 41.0	N 09 58.4
Alnair	27 35.8	S 46 51.0
Formalhaut	15 17.2	S 29 30.2
Markab	13 32.2	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 141 of 365 May 21 GHA	ddGHA	day 142 of 365 May 22 GHA	ddGHA	day 143 of 365 May 23 GHA	ddGHA	day 144 of 365 May 24 GHA	ddGHA	day 145 of 365 May 25 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	238 37.0	+02.5	239 36.2	+02.4	240 35.3	+02.5	241 34.4	+02.5	242 33.6	+02.4	00
01	253 39.5	+02.5	254 38.6	+02.5	255 37.8	+02.4	256 36.9	+02.5	257 36.0	+02.5	01
02	268 42.0	+02.4	269 41.1	+02.5	270 40.2	+02.5	271 39.4	+02.4	272 38.5	+02.5	02
03	283 44.4	+02.5	284 43.6	+02.4	285 42.7	+02.5	286 41.8	+02.5	287 41.0	+02.4	03
04	298 46.9	+02.4	299 46.0	+02.5	300 45.2	+02.4	301 44.3	+02.5	302 43.4	+02.5	04
05	313 49.3	+02.5	314 48.5	+02.4	315 47.6	+02.5	316 46.8	+02.4	317 45.9	+02.5	05
06	328 51.8	+02.5	329 50.9	+02.5	330 50.1	+02.5	331 49.2	+02.5	332 48.4	+02.4	06
07	343 54.3	+02.4	344 53.4	+02.5	345 52.6	+02.4	346 51.7	+02.5	347 50.8	+02.5	07
08	358 56.7	+02.5	359 55.9	+02.4	0 55.0	+02.5	1 54.2	+02.4	2 53.3	+02.5	08
09	13 59.2	+02.5	14 58.3	+02.5	15 57.5	+02.4	16 56.6	+02.5	17 55.8	+02.4	09
10	29 01.7	+02.4	30 00.8	+02.5	30 59.9	+02.5	31 59.1	+02.4	32 58.2	+02.5	10
11	44 04.1	+02.5	45 03.3	+02.4	46 02.4	+02.5	47 01.5	+02.5	48 00.7	+02.4	11
12	59 06.6	+02.5	60 05.7	+02.5	61 04.9	+02.4	62 04.0	+02.5	63 03.1	+02.5	12
13	74 09.1	+02.4	75 08.2	+02.5	76 07.3	+02.5	77 06.5	+02.4	78 05.6	+02.5	13
14	89 11.5	+02.5	90 10.7	+02.4	91 09.8	+02.5	92 08.9	+02.5	93 08.1	+02.4	14
15	104 14.0	+02.5	105 13.1	+02.5	106 12.3	+02.4	107 11.4	+02.5	108 10.5	+02.5	15
16	119 16.5	+02.4	120 15.6	+02.5	121 14.7	+02.5	122 13.9	+02.4	123 13.0	+02.5	16
17	134 18.9	+02.5	135 18.1	+02.4	136 17.2	+02.5	137 16.3	+02.5	138 15.5	+02.4	17
18	149 21.4	+02.4	150 20.5	+02.5	151 19.7	+02.4	152 18.8	+02.5	153 17.9	+02.5	18
19	164 23.8	+02.5	165 23.0	+02.4	166 22.1	+02.5	167 21.3	+02.4	168 20.4	+02.5	19
20	179 26.3	+02.5	180 25.4	+02.5	181 24.6	+02.4	182 23.7	+02.5	183 22.9	+02.4	20
21	194 28.8	+02.4	195 27.9	+02.5	196 27.0	+02.5	197 26.2	+02.5	198 25.3	+02.5	21
22	209 31.2	+02.5	210 30.4	+02.4	211 29.5	+02.5	212 28.7	+02.4	213 27.8	+02.5	22
23	224 33.7	+02.5	225 32.8	+02.5	226 32.0	+02.4	227 31.1	+02.5	228 30.3	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.3	N 29 12.6
Ankaa	353 09.7	S 42 10.9
Schedir	349 33.9	N 56 39.3
Diphda	348 49.8	S 17 51.9
Achernar	335 22.4	S 57 07.3
Hamal	327 54.0	N 23 33.9
Polaris	315 33.0	N 89 21.4
Acamar	315 13.8	S 40 13.0
Menkar	314 08.8	N 04 10.5
Mirfak	308 31.9	N 49 56.3
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.4
Rigel	281 06.3	S 08 10.7
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.3	S 01 11.4
Betelgeuze	270 54.8	N 07 24.6
Canopus	263 53.8	S 52 42.6
Sirius	258 28.3	S 16 44.5
Adhara	255 07.8	S 29 00.3
Castor	246 00.0	N 31 50.5
Procyon	244 53.1	N 05 10.4
Pollux	243 19.9	N 27 58.4
Avior	234 15.9	S 59 35.1
Suhail	222 48.0	S 43 31.6
Miaplacidus	221 38.7	S 69 48.8
Alphard	217 50.0	S 08 45.4
Regulus	207 36.7	N 11 51.5
Dubhe	193 43.5	N 61 38.2
Denebola	182 26.9	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 02.1	S 63 13.6
Gacrux	171 53.7	S 57 14.4
Alioth	166 14.6	N 55 50.6
Spica	158 24.3	S 11 16.7
Alkaid	152 53.3	N 49 12.3
Hadar	148 38.5	S 60 28.9
Menkent	147 59.5	S 36 28.6
Arcturus	145 49.2	N 19 04.7
Rigel Kentaurus	139 40.0	S 60 55.9
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 18.6	N 74 03.9
Alphecca	126 05.3	N 26 38.4
Antares	112 18.3	S 26 28.9
Atria	107 13.8	S 69 03.9
Sabik	102 05.0	S 15 45.2
Shaula	96 13.0	S 37 07.1
Rasalhague	96 00.3	N 12 32.6
Etamin	90 42.7	N 51 29.0
Kaus Australis	83 35.1	S 34 22.3
Vega	80 34.4	N 38 48.0
Nunki	75 50.2	S 26 16.1
Albireo	67 05.6	N 28 00.2
Altair	62 02.1	N 08 55.4
Peacock	53 08.9	S 56 39.6
Deneb	49 27.1	N 45 21.3
Enif	33 40.9	N 09 58.5
Alnair	27 35.7	S 46 51.0
Formalhaut	15 17.1	S 29 30.1
Markab	13 32.2	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 146 of 365 May 26 GHA	ddGHA	day 147 of 365 May 27 GHA	ddGHA	day 148 of 365 May 28 GHA	ddGHA	day 149 of 365 May 29 GHA	ddGHA	day 150 of 365 May 30 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	243 32.7	+02.5	244 31.9	+02.4	245 31.0	+02.5	246 30.1	+02.5	247 29.3	+02.4	00
01	258 35.2	+02.4	259 34.3	+02.5	260 33.5	+02.4	261 32.6	+02.5	262 31.7	+02.5	01
02	273 37.6	+02.5	274 36.8	+02.4	275 35.9	+02.5	276 35.1	+02.4	277 34.2	+02.5	02
03	288 40.1	+02.5	289 39.2	+02.5	290 38.4	+02.5	291 37.5	+02.5	292 36.7	+02.4	03
04	303 42.6	+02.4	304 41.7	+02.5	305 40.9	+02.4	306 40.0	+02.5	307 39.1	+02.5	04
05	318 45.0	+02.5	319 44.2	+02.4	320 43.3	+02.5	321 42.5	+02.4	322 41.6	+02.5	05
06	333 47.5	+02.5	334 46.6	+02.5	335 45.8	+02.4	336 44.9	+02.5	337 44.1	+02.4	06
07	348 50.0	+02.4	349 49.1	+02.5	350 48.2	+02.5	351 47.4	+02.4	352 46.5	+02.5	07
08	3 52.4	+02.5	4 51.6	+02.4	5 50.7	+02.5	6 49.8	+02.5	7 49.0	+02.4	08
09	18 54.9	+02.5	19 54.0	+02.5	20 53.2	+02.4	21 52.3	+02.5	22 51.4	+02.5	09
10	33 57.4	+02.4	34 56.5	+02.5	35 55.6	+02.5	36 54.8	+02.4	37 53.9	+02.5	10
11	48 59.8	+02.5	49 59.0	+02.4	50 58.1	+02.5	51 57.2	+02.5	52 56.4	+02.4	11
12	64 02.3	+02.5	65 01.4	+02.5	66 00.6	+02.4	66 59.7	+02.5	67 58.8	+02.5	12
13	79 04.8	+02.4	80 03.9	+02.5	81 03.0	+02.5	82 02.2	+02.4	83 01.3	+02.5	13
14	94 07.2	+02.5	95 06.4	+02.4	96 05.5	+02.5	97 04.6	+02.5	98 03.8	+02.4	14
15	109 09.7	+02.4	110 08.8	+02.5	111 08.0	+02.4	112 07.1	+02.5	113 06.2	+02.5	15
16	124 12.1	+02.5	125 11.3	+02.4	126 10.4	+02.5	127 09.6	+02.4	128 08.7	+02.5	16
17	139 14.6	+02.5	140 13.7	+02.5	141 12.9	+02.4	142 12.0	+02.5	143 11.2	+02.4	17
18	154 17.1	+02.4	155 16.2	+02.5	156 15.3	+02.5	157 14.5	+02.5	158 13.6	+02.5	18
19	169 19.5	+02.5	170 18.7	+02.4	171 17.8	+02.5	172 17.0	+02.4	173 16.1	+02.5	19
20	184 22.0	+02.5	185 21.1	+02.5	186 20.3	+02.4	187 19.4	+02.5	188 18.6	+02.4	20
21	199 24.5	+02.4	200 23.6	+02.5	201 22.7	+02.5	202 21.9	+02.4	203 21.0	+02.5	21
22	214 26.9	+02.5	215 26.1	+02.4	216 25.2	+02.5	217 24.3	+02.5	218 23.5	+02.4	22
23	229 29.4	+02.5	230 28.5	+02.5	231 27.7	+02.4	232 26.8	+02.5	233 25.9	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 37.2	N 29 12.6
Ankaa	353 09.7	S 42 10.9
Schedir	349 33.9	N 56 39.3
Diphda	348 49.8	S 17 51.9
Achernar	335 22.4	S 57 07.3
Hamal	327 54.0	N 23 33.9
Polaris	315 32.3	N 89 21.3
Acamar	315 13.8	S 40 12.9
Menkar	314 08.7	N 04 10.5
Mirfak	308 31.9	N 49 56.3
Aldebaran	290 42.5	N 16 33.2
Capella	280 25.6	N 46 01.3
Rigel	281 06.3	S 08 10.6
Bellatrix	278 25.5	N 06 22.1
Elnath	278 05.0	N 28 37.6
Alnilam	275 40.3	S 01 11.3
Betelgeuze	270 54.8	N 07 24.6
Canopus	263 53.9	S 52 42.6
Sirius	258 28.3	S 16 44.5
Adhara	255 07.9	S 29 00.3
Castor	246 00.0	N 31 50.5
Procyon	244 53.1	N 05 10.4
Pollux	243 19.9	N 27 58.4
Avior	234 15.9	S 59 35.1
Suhail	222 48.0	S 43 31.6
Miaplacidus	221 38.8	S 69 48.8
Alphard	217 50.0	S 08 45.4
Regulus	207 36.7	N 11 51.5
Dubhe	193 43.5	N 61 38.2
Denebola	182 26.9	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 40.0
Acrux	173 02.1	S 63 13.6
Gacrux	171 53.8	S 57 14.4
Alioth	166 14.7	N 55 50.6
Spica	158 24.3	S 11 16.7
Alkaid	152 53.3	N 49 12.3
Hadar	148 38.5	S 60 28.9
Menkent	147 59.5	S 36 28.6
Arcturus	145 49.2	N 19 04.8
Rigel Kentaurus	139 40.1	S 60 55.9
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 18.7	N 74 04.0
Alphecca	126 05.3	N 26 38.4
Antares	112 18.2	S 26 28.9
Atria	107 13.8	S 69 04.0
Sabik	102 05.0	S 15 45.2
Shaula	96 12.9	S 37 07.1
Rasalhague	96 00.3	N 12 32.6
Etamin	90 42.7	N 51 29.0
Kaus Australis	83 35.0	S 34 22.3
Vega	80 34.4	N 38 48.0
Nunki	75 50.2	S 26 16.1
Albireo	67 05.6	N 28 00.2
Altair	62 02.0	N 08 55.4
Peacock	53 08.9	S 56 39.6
Deneb	49 27.1	N 45 21.3
Enif	33 40.9	N 09 58.5
Alnair	27 35.7	S 46 51.0
Formalhaut	15 17.1	S 29 30.1
Markab	13 32.1	N 15 19.3

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2022 - First Point of Aries / Selected Stars

UT	day 171 of 365 June 20 GHA	ddGHA	day 172 of 365 June 21 GHA	ddGHA	day 173 of 365 June 22 GHA	ddGHA	day 174 of 365 June 23 GHA	ddGHA	day 175 of 365 June 24 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	268 11.2	+02.5	269 10.3	+02.5	270 09.5	+02.4	271 08.6	+02.5	272 07.8	+02.4	00
01	283 13.7	+02.4	284 12.8	+02.5	285 11.9	+02.5	286 11.1	+02.5	287 10.2	+02.5	01
02	298 16.1	+02.5	299 15.3	+02.4	300 14.4	+02.5	301 13.6	+02.4	302 12.7	+02.5	02
03	313 18.6	+02.5	314 17.7	+02.5	315 16.9	+02.4	316 16.0	+02.5	317 15.2	+02.4	03
04	328 21.1	+02.4	329 20.2	+02.5	330 19.3	+02.5	331 18.5	+02.4	332 17.6	+02.5	04
05	343 23.5	+02.5	344 22.7	+02.4	345 21.8	+02.5	346 20.9	+02.5	347 20.1	+02.4	05
06	358 26.0	+02.5	359 25.1	+02.5	0 24.3	+02.4	1 23.4	+02.5	2 22.5	+02.5	06
07	13 28.5	+02.4	14 27.6	+02.5	15 26.7	+02.5	16 25.9	+02.4	17 25.0	+02.5	07
08	28 30.9	+02.5	29 30.1	+02.4	30 29.2	+02.5	31 28.3	+02.5	32 27.5	+02.4	08
09	43 33.4	+02.5	44 32.5	+02.5	45 31.7	+02.4	46 30.8	+02.5	47 29.9	+02.5	09
10	58 35.9	+02.4	59 35.0	+02.5	60 34.1	+02.5	61 33.3	+02.4	62 32.4	+02.5	10
11	73 38.3	+02.5	74 37.5	+02.4	75 36.6	+02.5	76 35.7	+02.5	77 34.9	+02.4	11
12	88 40.8	+02.4	89 39.9	+02.5	90 39.1	+02.4	91 38.2	+02.5	92 37.3	+02.5	12
13	103 43.2	+02.5	104 42.4	+02.4	105 41.5	+02.5	106 40.7	+02.4	107 39.8	+02.5	13
14	118 45.7	+02.5	119 44.8	+02.5	120 44.0	+02.4	121 43.1	+02.5	122 42.3	+02.4	14
15	133 48.2	+02.4	134 47.3	+02.5	135 46.4	+02.5	136 45.6	+02.4	137 44.7	+02.5	15
16	148 50.6	+02.5	149 49.8	+02.4	150 48.9	+02.5	151 48.0	+02.5	152 47.2	+02.5	16
17	163 53.1	+02.5	164 52.2	+02.5	165 51.4	+02.4	166 50.5	+02.5	167 49.7	+02.4	17
18	178 55.6	+02.4	179 54.7	+02.5	180 53.8	+02.5	181 53.0	+02.4	182 52.1	+02.5	18
19	193 58.0	+02.5	194 57.2	+02.4	195 56.3	+02.5	196 55.4	+02.5	197 54.6	+02.4	19
20	209 00.5	+02.5	209 59.6	+02.5	210 58.8	+02.4	211 57.9	+02.5	212 57.0	+02.5	20
21	224 03.0	+02.4	225 02.1	+02.5	226 01.2	+02.5	227 00.4	+02.4	227 59.5	+02.5	21
22	239 05.4	+02.5	240 04.6	+02.4	241 03.7	+02.5	242 02.8	+02.5	243 02.0	+02.4	22
23	254 07.9	+02.4	255 07.0	+02.5	256 06.2	+02.4	257 05.3	+02.5	258 04.4	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.0	N 29 12.7	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.4	S 42 10.8	*Acrux*	173 02.3	S 63 13.6
Schedir	349 33.6	N 56 39.3	*Gacrux*	171 53.9	S 57 14.4
Diphda	348 49.6	S 17 51.8	*Alioth*	166 14.8	N 55 50.6
Achernar	335 22.1	S 57 07.2	Spica	158 24.4	S 11 16.7
Hamal	327 53.8	N 23 34.0	*Alkaid*	152 53.4	N 49 12.4
Polaris	315 24.2	N 89 21.2	*Hadar*	148 38.6	S 60 29.0
Acamar	315 13.7	S 40 12.8	*Menkent*	147 59.6	S 36 28.6
Menkar	314 08.6	N 04 10.6	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.7	N 49 56.2	*Rigel Kentaurus*	139 40.1	S 60 56.0
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.5	N 46 01.3	*Kocab*	137 18.9	N 74 04.0
Rigel	281 06.2	S 08 10.6	Alphecca	126 05.3	N 26 38.5
Bellatrix	278 25.5	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.9	N 28 37.6	*Atria*	107 13.6	S 69 04.1
Alnilam	275 40.2	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.7	N 07 24.6	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.9	S 52 42.5	Rasalhague	96 00.2	N 12 32.7
Sirius	258 28.3	S 16 44.4	*Etamin*	90 42.6	N 51 29.1
Adhara	255 07.9	S 29 00.2	*Kaus Australis*	83 34.9	S 34 22.3
Castor	246 00.1	N 31 50.5	*Vega*	80 34.3	N 38 48.1
Procyon	244 53.1	N 05 10.4	Nunki	75 50.0	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.4	N 28 00.3
Avior	234 16.1	S 59 35.0	Altair	62 01.9	N 08 55.5
Suhail	222 48.1	S 43 31.5	*Peacock*	53 08.6	S 56 39.6
Miaplacidus	221 39.1	S 69 48.8	*Deneb*	49 26.9	N 45 21.4
Alphard	217 50.0	S 08 45.4	Enif	33 40.7	N 09 58.6
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.4	S 46 50.9
Dubhe	193 43.7	N 61 38.2	Formalhaut	15 16.9	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.9	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 156 of 365 June 5 GHA	ddGHA	day 157 of 365 June 6 GHA	ddGHA	day 158 of 365 June 7 GHA	ddGHA	day 159 of 365 June 8 GHA	ddGHA	day 160 of 365 June 9 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	253 24.1	+02.5	254 23.3	+02.4	255 22.4	+02.5	256 21.5	+02.5	257 20.7	+02.4	00
01	268 26.6	+02.4	269 25.7	+02.5	270 24.9	+02.4	271 24.0	+02.5	272 23.1	+02.5	01
02	283 29.0	+02.5	284 28.2	+02.4	285 27.3	+02.5	286 26.5	+02.4	287 25.6	+02.5	02
03	298 31.5	+02.5	299 30.6	+02.5	300 29.8	+02.4	301 28.9	+02.5	302 28.1	+02.4	03
04	313 34.0	+02.4	314 33.1	+02.5	315 32.2	+02.5	316 31.4	+02.5	317 30.5	+02.5	04
05	328 36.4	+02.5	329 35.6	+02.4	330 34.7	+02.5	331 33.9	+02.4	332 33.0	+02.5	05
06	343 38.9	+02.5	344 38.0	+02.5	345 37.2	+02.4	346 36.3	+02.5	347 35.5	+02.4	06
07	358 41.4	+02.4	359 40.5	+02.5	0 39.6	+02.5	1 38.8	+02.4	2 37.9	+02.5	07
08	13 43.8	+02.5	14 43.0	+02.4	15 42.1	+02.5	16 41.2	+02.5	17 40.4	+02.4	08
09	28 46.3	+02.5	29 45.4	+02.5	30 44.6	+02.4	31 43.7	+02.5	32 42.8	+02.5	09
10	43 48.8	+02.4	44 47.9	+02.5	45 47.0	+02.5	46 46.2	+02.4	47 45.3	+02.5	10
11	58 51.2	+02.5	59 50.4	+02.4	60 49.5	+02.5	61 48.6	+02.5	62 47.8	+02.4	11
12	73 53.7	+02.4	74 52.8	+02.5	75 52.0	+02.4	76 51.1	+02.5	77 50.2	+02.5	12
13	88 56.1	+02.5	89 55.3	+02.5	90 54.4	+02.5	91 53.6	+02.4	92 52.7	+02.5	13
14	103 58.6	+02.5	104 57.8	+02.4	105 56.9	+02.5	106 56.0	+02.5	107 55.2	+02.4	14
15	119 01.1	+02.4	120 00.2	+02.5	120 59.4	+02.4	121 58.5	+02.5	122 57.6	+02.5	15
16	134 03.5	+02.5	135 02.7	+02.4	136 01.8	+02.5	137 01.0	+02.4	138 00.1	+02.5	16
17	149 06.0	+02.5	150 05.1	+02.5	151 04.3	+02.4	152 03.4	+02.5	153 02.6	+02.4	17
18	164 08.5	+02.4	165 07.6	+02.5	166 06.7	+02.5	167 05.9	+02.4	168 05.0	+02.5	18
19	179 10.9	+02.5	180 10.1	+02.4	181 09.2	+02.5	182 08.3	+02.5	183 07.5	+02.4	19
20	194 13.4	+02.5	195 12.5	+02.5	196 11.7	+02.4	197 10.8	+02.5	198 09.9	+02.5	20
21	209 15.9	+02.4	210 15.0	+02.5	211 14.1	+02.5	212 13.3	+02.4	213 12.4	+02.5	21
22	224 18.3	+02.5	225 17.5	+02.4	226 16.6	+02.5	227 15.7	+02.5	228 14.9	+02.4	22
23	239 20.8	+02.5	240 19.9	+02.5	241 19.1	+02.4	242 18.2	+02.5	243 17.3	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.1	N 29 12.6	Gienah	175 45.6	S 17 40.0
Ankaa	353 09.6	S 42 10.8	*Acrux*	173 02.2	S 63 13.6
Schedir	349 33.7	N 56 39.3	*Gacrux*	171 53.8	S 57 14.4
Diphda	348 49.7	S 17 51.9	*Alioth*	166 14.7	N 55 50.6
Achernar	335 22.3	S 57 07.2	Spica	158 24.4	S 11 16.7
Hamal	327 54.0	N 23 33.9	*Alkaid*	152 53.3	N 49 12.3
Polaris	315 29.4	N 89 21.3	*Hadar*	148 38.5	S 60 29.0
Acamar	315 13.8	S 40 12.9	*Menkent*	147 59.5	S 36 28.6
Menkar	314 08.7	N 04 10.6	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.8	N 49 56.2	*Rigel Kentaurus*	139 40.1	S 60 55.9
Aldebaran	290 42.5	N 16 33.2	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.6	N 46 01.3	*Kocab*	137 18.8	N 74 04.0
Rigel	281 06.3	S 08 10.6	Alphecca	126 05.3	N 26 38.5
Bellatrix	278 25.5	N 06 22.1	Antares	112 18.2	S 26 28.9
Elnath	278 05.0	N 28 37.6	*Atria*	107 13.7	S 69 04.0
Alnilam	275 40.3	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.8	N 07 24.6	*Shaula*	96 12.9	S 37 07.1
Canopus	263 53.9	S 52 42.5	Rasalhague	96 00.2	N 12 32.7
Sirius	258 28.3	S 16 44.4	*Etamin*	90 42.7	N 51 29.1
Adhara	255 07.9	S 29 00.2	*Kaus Australis*	83 35.0	S 34 22.3
Castor	246 00.1	N 31 50.5	*Vega*	80 34.4	N 38 48.0
Procyon	244 53.1	N 05 10.4	Nunki	75 50.1	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.5	N 28 00.2
Avior	234 16.0	S 59 35.1	Altair	62 02.0	N 08 55.4
Suhail	222 48.1	S 43 31.5	*Peacock*	53 08.8	S 56 39.6
Miaplacidus	221 38.9	S 69 48.8	*Deneb*	49 27.0	N 45 21.3
Alphard	217 50.0	S 08 45.4	Enif	33 40.8	N 09 58.5
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.6	S 46 50.9
Dubhe	193 43.6	N 61 38.2	Formalhaut	15 17.0	S 29 30.1
Denebola	182 26.9	N 14 27.0	Markab	13 32.1	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 161 of 365 June 10 GHA	ddGHA	day 162 of 365 June 11 GHA	ddGHA	day 163 of 365 June 12 GHA	ddGHA	day 164 of 365 June 13 GHA	ddGHA	day 165 of 365 June 14 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	258 19.8	+02.5	259 18.9	+02.5	260 18.1	+02.4	261 17.2	+02.5	262 16.4	+02.4	00
01	273 22.3	+02.4	274 21.4	+02.5	275 20.5	+02.5	276 19.7	+02.5	277 18.8	+02.5	01
02	288 24.7	+02.5	289 23.9	+02.4	290 23.0	+02.5	291 22.2	+02.4	292 21.3	+02.5	02
03	303 27.2	+02.5	304 26.3	+02.5	305 25.5	+02.4	306 24.6	+02.5	307 23.8	+02.4	03
04	318 29.7	+02.4	319 28.8	+02.5	320 27.9	+02.5	321 27.1	+02.4	322 26.2	+02.5	04
05	333 32.1	+02.5	334 31.3	+02.4	335 30.4	+02.5	336 29.5	+02.5	337 28.7	+02.5	05
06	348 34.6	+02.5	349 33.7	+02.5	350 32.9	+02.4	351 32.0	+02.5	352 31.2	+02.4	06
07	3 37.1	+02.4	4 36.2	+02.5	5 35.3	+02.5	6 34.5	+02.4	7 33.6	+02.5	07
08	18 39.5	+02.5	19 38.7	+02.4	20 37.8	+02.5	21 36.9	+02.5	22 36.1	+02.4	08
09	33 42.0	+02.4	34 41.1	+02.5	35 40.3	+02.4	36 39.4	+02.5	37 38.5	+02.5	09
10	48 44.4	+02.5	49 43.6	+02.4	50 42.7	+02.5	51 41.9	+02.4	52 41.0	+02.5	10
11	63 46.9	+02.5	64 46.0	+02.5	65 45.2	+02.5	66 44.3	+02.5	67 43.5	+02.4	11
12	78 49.4	+02.4	79 48.5	+02.5	80 47.7	+02.4	81 46.8	+02.5	82 45.9	+02.5	12
13	93 51.8	+02.5	94 51.0	+02.4	95 50.1	+02.5	96 49.3	+02.4	97 48.4	+02.5	13
14	108 54.3	+02.5	109 53.4	+02.5	110 52.6	+02.4	111 51.7	+02.5	112 50.9	+02.4	14
15	123 56.8	+02.4	124 55.9	+02.5	125 55.0	+02.5	126 54.2	+02.5	127 53.3	+02.5	15
16	138 59.2	+02.5	139 58.4	+02.4	140 57.5	+02.5	141 56.7	+02.4	142 55.8	+02.5	16
17	154 01.7	+02.5	155 00.8	+02.5	155 60.0	+02.4	156 59.1	+02.5	157 58.3	+02.4	17
18	169 04.2	+02.4	170 03.3	+02.5	171 02.4	+02.5	172 01.6	+02.4	173 00.7	+02.5	18
19	184 06.6	+02.5	185 05.8	+02.4	186 04.9	+02.5	187 04.0	+02.5	188 03.2	+02.5	19
20	199 09.1	+02.5	200 08.2	+02.5	201 07.4	+02.4	202 06.5	+02.5	203 05.7	+02.4	20
21	214 11.6	+02.4	215 10.7	+02.5	216 09.8	+02.5	217 09.0	+02.4	218 08.1	+02.5	21
22	229 14.0	+02.5	230 13.2	+02.4	231 12.3	+02.5	232 11.4	+02.5	233 10.6	+02.4	22
23	244 16.5	+02.4	245 15.6	+02.5	246 14.8	+02.4	247 13.9	+02.5	248 13.0	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.1	N 29 12.6	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.5	S 42 10.8	*Acrux*	173 02.2	S 63 13.6
Schedir	349 33.7	N 56 39.3	*Gacrux*	171 53.8	S 57 14.4
Diphda	348 49.7	S 17 51.8	*Alioth*	166 14.8	N 55 50.6
Achernar	335 22.2	S 57 07.2	Spica	158 24.4	S 11 16.7
Hamal	327 53.9	N 23 34.0	*Alkaid*	152 53.4	N 49 12.3
Polaris	315 28.0	N 89 21.3	*Hadar*	148 38.5	S 60 29.0
Acamar	315 13.8	S 40 12.9	*Menkent*	147 59.6	S 36 28.6
Menkar	314 08.7	N 04 10.6	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.8	N 49 56.2	*Rigel Kentaurus*	139 40.1	S 60 56.0
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.6	N 46 01.3	*Kocab*	137 18.8	N 74 04.0
Rigel	281 06.3	S 08 10.6	Alphecca	126 05.3	N 26 38.5
Bellatrix	278 25.5	N 06 22.1	Antares	112 18.2	S 26 28.9
Elnath	278 05.0	N 28 37.6	*Atria*	107 13.7	S 69 04.0
Alnilam	275 40.2	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.8	N 07 24.6	*Shaula*	96 12.9	S 37 07.2
Canopus	263 53.9	S 52 42.5	Rasalhague	96 00.2	N 12 32.7
Sirius	258 28.3	S 16 44.4	*Etamin*	90 42.6	N 51 29.1
Adhara	255 07.9	S 29 00.2	*Kaus Australis*	83 35.0	S 34 22.3
Castor	246 00.1	N 31 50.5	*Vega*	80 34.3	N 38 48.0
Procyon	244 53.1	N 05 10.4	Nunki	75 50.1	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.5	N 28 00.3
Avior	234 16.0	S 59 35.1	Altair	62 01.9	N 08 55.4
Suhail	222 48.1	S 43 31.5	*Peacock*	53 08.7	S 56 39.6
Miaplacidus	221 39.0	S 69 48.8	*Deneb*	49 26.9	N 45 21.3
Alphard	217 50.0	S 08 45.4	Enif	33 40.8	N 09 58.5
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.5	S 46 50.9
Dubhe	193 43.6	N 61 38.2	Formalhaut	15 17.0	S 29 30.1
Denebola	182 26.9	N 14 27.0	Markab	13 32.0	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 166 of 365 June 15 GHA	ddGHA	day 167 of 365 June 16 GHA	ddGHA	day 168 of 365 June 17 GHA	ddGHA	day 169 of 365 June 18 GHA	ddGHA	day 170 of 365 June 19 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	263 15.5	+02.5	264 14.6	+02.5	265 13.8	+02.5	266 12.9	+02.5	267 12.1	+02.4	00
01	278 18.0	+02.4	279 17.1	+02.5	280 16.3	+02.4	281 15.4	+02.5	282 14.5	+02.5	01
02	293 20.4	+02.5	294 19.6	+02.4	295 18.7	+02.5	296 17.9	+02.4	297 17.0	+02.5	02
03	308 22.9	+02.5	309 22.0	+02.5	310 21.2	+02.4	311 20.3	+02.5	312 19.5	+02.4	03
04	323 25.4	+02.4	324 24.5	+02.5	325 23.6	+02.5	326 22.8	+02.5	327 21.9	+02.5	04
05	338 27.8	+02.5	339 27.0	+02.4	340 26.1	+02.5	341 25.3	+02.4	342 24.4	+02.5	05
06	353 30.3	+02.5	354 29.4	+02.5	355 28.6	+02.4	356 27.7	+02.5	357 26.9	+02.4	06
07	8 32.8	+02.4	9 31.9	+02.5	10 31.0	+02.5	11 30.2	+02.4	12 29.3	+02.5	07
08	23 35.2	+02.5	24 34.4	+02.4	25 33.5	+02.5	26 32.6	+02.5	27 31.8	+02.4	08
09	38 37.7	+02.5	39 36.8	+02.5	40 36.0	+02.4	41 35.1	+02.5	42 34.2	+02.5	09
10	53 40.2	+02.4	54 39.3	+02.5	55 38.4	+02.5	56 37.6	+02.4	57 36.7	+02.5	10
11	68 42.6	+02.5	69 41.8	+02.4	70 40.9	+02.5	71 40.0	+02.5	72 39.2	+02.4	11
12	83 45.1	+02.4	84 44.2	+02.5	85 43.4	+02.4	86 42.5	+02.5	87 41.6	+02.5	12
13	98 47.5	+02.5	99 46.7	+02.4	100 45.8	+02.5	101 45.0	+02.4	102 44.1	+02.5	13
14	113 50.0	+02.5	114 49.1	+02.5	115 48.3	+02.5	116 47.4	+02.5	117 46.6	+02.4	14
15	128 52.5	+02.4	129 51.6	+02.5	130 50.8	+02.4	131 49.9	+02.5	132 49.0	+02.5	15
16	143 54.9	+02.5	144 54.1	+02.4	145 53.2	+02.5	146 52.4	+02.4	147 51.5	+02.5	16
17	158 57.4	+02.5	159 56.5	+02.5	160 55.7	+02.4	161 54.8	+02.5	162 54.0	+02.4	17
18	173 59.9	+02.4	174 59.0	+02.5	175 58.1	+02.5	176 57.3	+02.5	177 56.4	+02.5	18
19	189 02.3	+02.5	190 01.5	+02.4	191 00.6	+02.5	191 59.8	+02.4	192 58.9	+02.5	19
20	204 04.8	+02.5	205 03.9	+02.5	206 03.1	+02.4	207 02.2	+02.5	208 01.4	+02.4	20
21	219 07.3	+02.4	220 06.4	+02.5	221 05.5	+02.5	222 04.7	+02.4	223 03.8	+02.5	21
22	234 09.7	+02.5	235 08.9	+02.4	236 08.0	+02.5	237 07.1	+02.5	238 06.3	+02.4	22
23	249 12.2	+02.4	250 11.3	+02.5	251 10.5	+02.4	252 09.6	+02.5	253 08.7	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.1	N 29 12.7	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.5	S 42 10.8	*Acrux*	173 02.2	S 63 13.6
Schedir	349 33.6	N 56 39.3	*Gacrux*	171 53.9	S 57 14.4
Diphda	348 49.6	S 17 51.8	*Alioth*	166 14.8	N 55 50.6
Achernar	335 22.2	S 57 07.2	Spica	158 24.4	S 11 16.7
Hamal	327 53.9	N 23 34.0	*Alkaid*	152 53.4	N 49 12.4
Polaris	315 25.9	N 89 21.3	*Hadar*	148 38.6	S 60 29.0
Acamar	315 13.7	S 40 12.8	*Menkent*	147 59.6	S 36 28.6
Menkar	314 08.6	N 04 10.6	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.7	N 49 56.2	*Rigel Kentaurus*	139 40.1	S 60 56.0
Aldebaran	290 42.4	N 16 33.2	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.6	N 46 01.3	*Kocab*	137 18.9	N 74 04.0
Rigel	281 06.3	S 08 10.6	Alphecca	126 05.3	N 26 38.5
Bellatrix	278 25.5	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 05.0	N 28 37.6	*Atria*	107 13.7	S 69 04.0
Alnilam	275 40.2	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.7	N 07 24.6	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.9	S 52 42.5	Rasalhague	96 00.2	N 12 32.7
Sirius	258 28.3	S 16 44.4	*Etamin*	90 42.6	N 51 29.1
Adhara	255 07.9	S 29 00.2	*Kaus Australis*	83 34.9	S 34 22.3
Castor	246 00.1	N 31 50.5	*Vega*	80 34.3	N 38 48.1
Procyon	244 53.1	N 05 10.4	Nunki	75 50.0	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.4	N 28 00.3
Avior	234 16.1	S 59 35.0	Altair	62 01.9	N 08 55.4
Suhail	222 48.1	S 43 31.5	*Peacock*	53 08.6	S 56 39.6
Miaplacidus	221 39.1	S 69 48.8	*Deneb*	49 26.9	N 45 21.4
Alphard	217 50.0	S 08 45.4	Enif	33 40.7	N 09 58.5
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.5	S 46 50.9
Dubhe	193 43.7	N 61 38.2	Formalhaut	15 16.9	S 29 30.1
Denebola	182 26.9	N 14 27.0	Markab	13 32.0	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 191 of 365 July 10 GHA	ddGHA	day 192 of 365 July 11 GHA	ddGHA	day 193 of 365 July 12 GHA	ddGHA	day 194 of 365 July 13 GHA	ddGHA	day 195 of 365 July 14 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	287 54.0	+02.5	288 53.1	+02.5	289 52.3	+02.4	290 51.4	+02.5	291 50.6	+02.4	00
01	302 56.5	+02.4	303 55.6	+02.5	304 54.7	+02.5	305 53.9	+02.4	306 53.0	+02.5	01
02	317 58.9	+02.5	318 58.1	+02.4	319 57.2	+02.5	320 56.3	+02.5	321 55.5	+02.5	02
03	333 01.4	+02.4	334 00.5	+02.5	334 59.7	+02.4	335 58.8	+02.5	336 58.0	+02.4	03
04	348 03.8	+02.5	349 03.0	+02.5	350 02.1	+02.5	351 01.3	+02.4	352 00.4	+02.5	04
05	3 06.3	+02.5	4 05.5	+02.4	5 04.6	+02.5	6 03.7	+02.5	7 02.9	+02.4	05
06	18 08.8	+02.4	19 07.9	+02.5	20 07.1	+02.4	21 06.2	+02.5	22 05.3	+02.5	06
07	33 11.2	+02.5	34 10.4	+02.4	35 09.5	+02.5	36 08.7	+02.4	37 07.8	+02.5	07
08	48 13.7	+02.5	49 12.8	+02.5	50 12.0	+02.5	51 11.1	+02.5	52 10.3	+02.4	08
09	63 16.2	+02.4	64 15.3	+02.5	65 14.5	+02.4	66 13.6	+02.5	67 12.7	+02.5	09
10	78 18.6	+02.5	79 17.8	+02.4	80 16.9	+02.5	81 16.1	+02.4	82 15.2	+02.5	10
11	93 21.1	+02.5	94 20.2	+02.5	95 19.4	+02.4	96 18.5	+02.5	97 17.7	+02.4	11
12	108 23.6	+02.4	109 22.7	+02.5	110 21.8	+02.5	111 21.0	+02.5	112 20.1	+02.5	12
13	123 26.0	+02.5	124 25.2	+02.4	125 24.3	+02.5	126 23.5	+02.4	127 22.6	+02.5	13
14	138 28.5	+02.5	139 27.6	+02.5	140 26.8	+02.4	141 25.9	+02.5	142 25.1	+02.4	14
15	153 31.0	+02.4	154 30.1	+02.5	155 29.2	+02.5	156 28.4	+02.4	157 27.5	+02.5	15
16	168 33.4	+02.5	169 32.6	+02.4	170 31.7	+02.5	171 30.8	+02.5	172 30.0	+02.5	16
17	183 35.9	+02.4	184 35.0	+02.5	185 34.2	+02.4	186 33.3	+02.5	187 32.5	+02.4	17
18	198 38.3	+02.5	199 37.5	+02.5	200 36.6	+02.5	201 35.8	+02.4	202 34.9	+02.5	18
19	213 40.8	+02.5	214 40.0	+02.4	215 39.1	+02.5	216 38.2	+02.5	217 37.4	+02.4	19
20	228 43.3	+02.4	229 42.4	+02.5	230 41.6	+02.4	231 40.7	+02.5	232 39.8	+02.5	20
21	243 45.7	+02.5	244 44.9	+02.4	245 44.0	+02.5	246 43.2	+02.4	247 42.3	+02.5	21
22	258 48.2	+02.5	259 47.3	+02.5	260 46.5	+02.5	261 45.6	+02.5	262 44.8	+02.4	22
23	273 50.7	+02.4	274 49.8	+02.5	275 49.0	+02.4	276 48.1	+02.5	277 47.2	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.9	N 29 12.7	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.2	S 42 10.7	*Acrux*	173 02.5	S 63 13.6
Schedir	349 33.3	N 56 39.3	*Gacrux*	171 54.0	S 57 14.4
Diphda	348 49.4	S 17 51.7	*Alioth*	166 15.0	N 55 50.6
Achernar	335 21.9	S 57 07.1	Spica	158 24.4	S 11 16.7
Hamal	327 53.7	N 23 34.0	*Alkaid*	152 53.5	N 49 12.4
Polaris	315 15.4	N 89 21.2	*Hadar*	148 38.7	S 60 29.1
Acamar	315 13.5	S 40 12.7	*Menkent*	147 59.6	S 36 28.7
Menkar	314 08.5	N 04 10.7	Arcturus	145 49.3	N 19 04.9
Mirfak	308 31.5	N 49 56.2	*Rigel Kentaurus*	139 40.2	S 60 56.0
Aldebaran	290 42.3	N 16 33.3	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.4	N 46 01.3	*Kocab*	137 19.2	N 74 04.1
Rigel	281 06.2	S 08 10.5	Alphecca	126 05.3	N 26 38.6
Bellatrix	278 25.4	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.8	N 28 37.6	*Atria*	107 13.7	S 69 04.2
Alnilam	275 40.1	S 01 11.2	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.7	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.9	S 52 42.4	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.2	S 16 44.3	*Etamin*	90 42.6	N 51 29.2
Adhara	255 07.9	S 29 00.1	*Kaus Australis*	83 34.8	S 34 22.4
Castor	246 00.0	N 31 50.4	*Vega*	80 34.3	N 38 48.2
Procyon	244 53.1	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.3	N 28 00.4
Avior	234 16.2	S 59 34.9	Altair	62 01.8	N 08 55.5
Suhail	222 48.2	S 43 31.4	*Peacock*	53 08.4	S 56 39.6
Miaplacidus	221 39.3	S 69 48.7	*Deneb*	49 26.8	N 45 21.5
Alphard	217 50.1	S 08 45.3	Enif	33 40.6	N 09 58.6
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.2	S 46 50.9
Dubhe	193 43.8	N 61 38.1	Formalhaut	15 16.7	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.8	N 15 19.5

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2022 - First Point of Aries / Selected Stars

UT	day 176 of 365 June 25 GHA	ddGHA	day 177 of 365 June 26 GHA	ddGHA	day 178 of 365 June 27 GHA	ddGHA	day 179 of 365 June 28 GHA	ddGHA	day 180 of 365 June 29 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	273 06.9	+02.5	274 06.0	+02.5	275 05.2	+02.4	276 04.3	+02.5	277 03.5	+02.4	00
01	288 09.4	+02.4	289 08.5	+02.5	290 07.6	+02.5	291 06.8	+02.5	292 05.9	+02.5	01
02	303 11.8	+02.5	304 11.0	+02.4	305 10.1	+02.5	306 09.3	+02.4	307 08.4	+02.5	02
03	318 14.3	+02.5	319 13.4	+02.5	320 12.6	+02.4	321 11.7	+02.5	322 10.9	+02.4	03
04	333 16.8	+02.4	334 15.9	+02.5	335 15.0	+02.5	336 14.2	+02.4	337 13.3	+02.5	04
05	348 19.2	+02.5	349 18.4	+02.4	350 17.5	+02.5	351 16.6	+02.5	352 15.8	+02.4	05
06	3 21.7	+02.5	4 20.8	+02.5	5 20.0	+02.4	6 19.1	+02.5	7 18.2	+02.5	06
07	18 24.2	+02.4	19 23.3	+02.5	20 22.4	+02.5	21 21.6	+02.4	22 20.7	+02.5	07
08	33 26.6	+02.5	34 25.8	+02.4	35 24.9	+02.5	36 24.0	+02.5	37 23.2	+02.4	08
09	48 29.1	+02.4	49 28.2	+02.5	50 27.4	+02.4	51 26.5	+02.5	52 25.6	+02.5	09
10	63 31.5	+02.5	64 30.7	+02.4	65 29.8	+02.5	66 29.0	+02.4	67 28.1	+02.5	10
11	78 34.0	+02.5	79 33.1	+02.5	80 32.3	+02.5	81 31.4	+02.5	82 30.6	+02.4	11
12	93 36.5	+02.4	94 35.6	+02.5	95 34.8	+02.4	96 33.9	+02.5	97 33.0	+02.5	12
13	108 38.9	+02.5	109 38.1	+02.4	110 37.2	+02.5	111 36.4	+02.4	112 35.5	+02.5	13
14	123 41.4	+02.5	124 40.5	+02.5	125 39.7	+02.4	126 38.8	+02.5	127 38.0	+02.4	14
15	138 43.9	+02.4	139 43.0	+02.5	140 42.1	+02.5	141 41.3	+02.4	142 40.4	+02.5	15
16	153 46.3	+02.5	154 45.5	+02.4	155 44.6	+02.5	156 43.7	+02.5	157 42.9	+02.5	16
17	168 48.8	+02.5	169 47.9	+02.5	170 47.1	+02.4	171 46.2	+02.5	172 45.4	+02.4	17
18	183 51.3	+02.4	184 50.4	+02.5	185 49.5	+02.5	186 48.7	+02.4	187 47.8	+02.5	18
19	198 53.7	+02.5	199 52.9	+02.4	200 52.0	+02.5	201 51.1	+02.5	202 50.3	+02.4	19
20	213 56.2	+02.4	214 55.3	+02.5	215 54.5	+02.4	216 53.6	+02.5	217 52.7	+02.5	20
21	228 58.6	+02.5	229 57.8	+02.5	230 56.9	+02.5	231 56.1	+02.4	232 55.2	+02.5	21
22	244 01.1	+02.5	245 00.3	+02.4	245 59.4	+02.5	246 58.5	+02.5	247 57.7	+02.4	22
23	259 03.6	+02.4	260 02.7	+02.5	261 01.9	+02.4	262 01.0	+02.5	263 00.1	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 37.0	N 29 12.7	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.4	S 42 10.7	*Acrux*	173 02.3	S 63 13.6
Schedir	349 33.5	N 56 39.3	*Gacrux*	171 53.9	S 57 14.4
Diphda	348 49.5	S 17 51.8	*Alioth*	166 14.9	N 55 50.6
Achernar	335 22.1	S 57 07.1	Spica	158 24.4	S 11 16.7
Hamal	327 53.8	N 23 34.0	*Alkaid*	152 53.4	N 49 12.4
Polaris	315 22.2	N 89 21.2	*Hadar*	148 38.6	S 60 29.0
Acamar	315 13.7	S 40 12.8	*Menkent*	147 59.6	S 36 28.6
Menkar	314 08.6	N 04 10.6	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.6	N 49 56.2	*Rigel Kentaurus*	139 40.1	S 60 56.0
Aldebaran	290 42.4	N 16 33.3	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.5	N 46 01.3	*Kocab*	137 19.0	N 74 04.1
Rigel	281 06.2	S 08 10.5	Alphecca	126 05.3	N 26 38.5
Bellatrix	278 25.5	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.9	N 28 37.6	*Atria*	107 13.6	S 69 04.1
Alnilam	275 40.2	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.7	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.9	S 52 42.4	Rasalhague	96 00.2	N 12 32.7
Sirius	258 28.3	S 16 44.4	*Etamin*	90 42.6	N 51 29.2
Adhara	255 07.9	S 29 00.1	*Kaus Australis*	83 34.9	S 34 22.3
Castor	246 00.1	N 31 50.5	*Vega*	80 34.3	N 38 48.1
Procyon	244 53.1	N 05 10.4	Nunki	75 50.0	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.4	N 28 00.3
Avior	234 16.1	S 59 35.0	Altair	62 01.9	N 08 55.5
Suhail	222 48.2	S 43 31.5	*Peacock*	53 08.5	S 56 39.6
Miaplacidus	221 39.2	S 69 48.7	*Deneb*	49 26.8	N 45 21.4
Alphard	217 50.0	S 08 45.3	Enif	33 40.7	N 09 58.6
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.4	S 46 50.9
Dubhe	193 43.7	N 61 38.2	Formalhaut	15 16.8	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.9	N 15 19.4

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2022 - First Point of Aries / Selected Stars

UT	day 181 of 365 *June 30* GHA ° ′	ddGHA ′	day 182 of 365 *July 1* GHA ° ′	ddGHA ′	day 183 of 365 *July 2* GHA ° ′	ddGHA ′	day 184 of 365 *July 3* GHA ° ′	ddGHA ′	day 185 of 365 *July 4* GHA ° ′	ddGHA ′	UT
00	278 02.6	+02.5	279 01.7	+02.5	280 00.9	+02.4	281 00.0	+02.5	281 59.2	+02.4	00
01	293 05.1	+02.4	294 04.2	+02.5	295 03.3	+02.5	296 02.5	+02.5	297 01.6	+02.5	01
02	308 07.5	+02.5	309 06.7	+02.4	310 05.8	+02.5	311 05.0	+02.4	312 04.1	+02.5	02
03	323 10.0	+02.5	324 09.1	+02.5	325 08.3	+02.4	326 07.4	+02.5	327 06.6	+02.4	03
04	338 12.5	+02.4	339 11.6	+02.5	340 10.7	+02.5	341 09.9	+02.4	342 09.0	+02.5	04
05	353 14.9	+02.5	354 14.1	+02.4	355 13.2	+02.5	356 12.3	+02.5	357 11.5	+02.4	05
06	8 17.4	+02.5	9 16.5	+02.5	10 15.7	+02.4	11 14.8	+02.5	12 13.9	+02.5	06
07	23 19.9	+02.4	24 19.0	+02.5	25 18.1	+02.5	26 17.3	+02.4	27 16.4	+02.5	07
08	38 22.3	+02.5	39 21.5	+02.4	40 20.6	+02.5	41 19.7	+02.5	42 18.9	+02.4	08
09	53 24.8	+02.4	54 23.9	+02.5	55 23.1	+02.4	56 22.2	+02.5	57 21.3	+02.5	09
10	68 27.2	+02.5	69 26.4	+02.4	70 25.5	+02.5	71 24.7	+02.4	72 23.8	+02.5	10
11	83 29.7	+02.5	84 28.8	+02.5	85 28.0	+02.5	86 27.1	+02.5	87 26.3	+02.4	11
12	98 32.2	+02.4	99 31.3	+02.5	100 30.5	+02.4	101 29.6	+02.5	102 28.7	+02.5	12
13	113 34.6	+02.5	114 33.8	+02.4	115 32.9	+02.5	116 32.1	+02.4	117 31.2	+02.5	13
14	128 37.1	+02.5	129 36.2	+02.5	130 35.4	+02.4	131 34.5	+02.5	132 33.7	+02.4	14
15	143 39.6	+02.4	144 38.7	+02.5	145 37.8	+02.5	146 37.0	+02.4	147 36.1	+02.5	15
16	158 42.0	+02.5	159 41.2	+02.4	160 40.3	+02.5	161 39.4	+02.5	162 38.6	+02.5	16
17	173 44.5	+02.5	174 43.6	+02.5	175 42.8	+02.4	176 41.9	+02.5	177 41.1	+02.4	17
18	188 47.0	+02.4	189 46.1	+02.5	190 45.2	+02.5	191 44.4	+02.4	192 43.5	+02.5	18
19	203 49.4	+02.5	204 48.6	+02.4	205 47.7	+02.5	206 46.8	+02.5	207 46.0	+02.4	19
20	218 51.9	+02.5	219 51.0	+02.5	220 50.2	+02.4	221 49.3	+02.5	222 48.4	+02.5	20
21	233 54.4	+02.4	234 53.5	+02.5	235 52.6	+02.5	236 51.8	+02.4	237 50.9	+02.5	21
22	248 56.8	+02.5	249 56.0	+02.4	250 55.1	+02.5	251 54.2	+02.5	252 53.4	+02.4	22
23	263 59.3	+02.4	264 58.4	+02.5	265 57.6	+02.4	266 56.7	+02.5	267 55.8	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.9	N 29 12.7	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.3	S 42 10.7	*Acrux*	173 02.4	S 63 13.6
Schedir	349 33.4	N 56 39.3	*Gacrux*	171 54.0	S 57 14.4
Diphda	348 49.5	S 17 51.8	*Alioth*	166 14.9	N 55 50.6
Achernar	335 22.0	S 57 07.1	Spica	158 24.4	S 11 16.7
Hamal	327 53.8	N 23 34.0	*Alkaid*	152 53.5	N 49 12.4
Polaris	315 19.8	N 89 21.2	*Hadar*	148 38.6	S 60 29.0
Acamar	315 13.6	S 40 12.7	*Menkent*	147 59.6	S 36 28.6
Menkar	314 08.5	N 04 10.6	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.6	N 49 56.2	*Rigel Kentaurus*	139 40.2	S 60 56.0
Aldebaran	290 42.3	N 16 33.3	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.5	N 46 01.3	*Kocab*	137 19.1	N 74 04.1
Rigel	281 06.2	S 08 10.5	Alphecca	126 05.3	N 26 38.5
Bellatrix	278 25.4	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.9	N 28 37.6	*Atria*	107 13.6	S 69 04.1
Alnilam	275 40.2	S 01 11.3	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.7	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.9	S 52 42.4	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.2	S 16 44.3	*Etamin*	90 42.6	N 51 29.2
Adhara	255 07.9	S 29 00.1	*Kaus Australis*	83 34.9	S 34 22.3
Castor	246 00.0	N 31 50.4	*Vega*	80 34.3	N 38 48.1
Procyon	244 53.1	N 05 10.5	Nunki	75 50.0	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.4	N 28 00.3
Avior	234 16.1	S 59 35.0	Altair	62 01.8	N 08 55.5
Suhail	222 48.2	S 43 31.5	*Peacock*	53 08.5	S 56 39.6
Miaplacidus	221 39.2	S 69 48.7	*Deneb*	49 26.8	N 45 21.5
Alphard	217 50.0	S 08 45.3	Enif	33 40.6	N 09 58.6
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.3	S 46 50.9
Dubhe	193 43.8	N 61 38.1	Formalhaut	15 16.8	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.9	N 15 19.5

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2022 - First Point of Aries / Selected Stars

UT	day 186 of 365 *July 5* GHA ° ′	ddGHA ′	day 187 of 365 *July 6* GHA ° ′	ddGHA ′	day 188 of 365 *July 7* GHA ° ′	ddGHA ′	day 189 of 365 *July 8* GHA ° ′	ddGHA ′	day 190 of 365 *July 9* GHA ° ′	ddGHA ′	UT
00	282 58.3	+02.5	283 57.4	+02.5	284 56.6	+02.4	285 55.7	+02.5	286 54.9	+02.4	00
01	298 00.8	+02.4	298 59.9	+02.5	299 59.0	+02.5	300 58.2	+02.4	301 57.3	+02.5	01
02	313 03.2	+02.5	314 02.4	+02.4	315 01.5	+02.5	316 00.6	+02.5	316 59.8	+02.4	02
03	328 05.7	+02.5	329 04.8	+02.5	330 04.0	+02.4	331 03.1	+02.5	332 02.2	+02.5	03
04	343 08.2	+02.4	344 07.3	+02.5	345 06.4	+02.5	346 05.6	+02.4	347 04.7	+02.5	04
05	358 10.6	+02.5	359 09.8	+02.4	0 08.9	+02.5	1 08.0	+02.5	2 07.2	+02.4	05
06	13 13.1	+02.4	14 12.2	+02.5	15 11.4	+02.4	16 10.5	+02.5	17 09.6	+02.5	06
07	28 15.5	+02.5	29 14.7	+02.5	30 13.8	+02.5	31 13.0	+02.4	32 12.1	+02.5	07
08	43 18.0	+02.5	44 17.2	+02.4	45 16.3	+02.5	46 15.4	+02.5	47 14.6	+02.4	08
09	58 20.5	+02.4	59 19.6	+02.5	60 18.8	+02.4	61 17.9	+02.5	62 17.0	+02.5	09
10	73 22.9	+02.5	74 22.1	+02.4	75 21.2	+02.5	76 20.4	+02.4	77 19.5	+02.5	10
11	88 25.4	+02.5	89 24.5	+02.5	90 23.7	+02.4	91 22.8	+02.5	92 22.0	+02.4	11
12	103 27.9	+02.4	104 27.0	+02.5	105 26.1	+02.5	106 25.3	+02.4	107 24.4	+02.5	12
13	118 30.3	+02.5	119 29.5	+02.4	120 28.6	+02.5	121 27.7	+02.5	122 26.9	+02.5	13
14	133 32.8	+02.5	134 31.9	+02.5	135 31.1	+02.4	136 30.2	+02.5	137 29.4	+02.4	14
15	148 35.3	+02.4	149 34.4	+02.5	150 33.5	+02.5	151 32.7	+02.4	152 31.8	+02.5	15
16	163 37.7	+02.5	164 36.9	+02.4	165 36.0	+02.5	166 35.1	+02.5	167 34.3	+02.4	16
17	178 40.2	+02.5	179 39.3	+02.5	180 38.5	+02.4	181 37.6	+02.5	182 36.7	+02.5	17
18	193 42.7	+02.4	194 41.8	+02.5	195 40.9	+02.5	196 40.1	+02.4	197 39.2	+02.5	18
19	208 45.1	+02.5	209 44.3	+02.4	210 43.4	+02.5	211 42.5	+02.5	212 41.7	+02.4	19
20	223 47.6	+02.4	224 46.7	+02.5	225 45.9	+02.4	226 45.0	+02.5	227 44.1	+02.5	20
21	238 50.0	+02.5	239 49.2	+02.4	240 48.3	+02.5	241 47.5	+02.4	242 46.6	+02.5	21
22	253 52.5	+02.5	254 51.6	+02.5	255 50.8	+02.4	256 49.9	+02.5	257 49.1	+02.4	22
23	268 55.0	+02.4	269 54.1	+02.5	270 53.2	+02.5	271 52.4	+02.5	272 51.5	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.9	N 29 12.7	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.3	S 42 10.7	*Acrux*	173 02.4	S 63 13.6
Schedir	349 33.4	N 56 39.3	*Gacrux*	171 54.0	S 57 14.4
Diphda	348 49.5	S 17 51.7	*Alioth*	166 14.9	N 55 50.6
Achernar	335 22.0	S 57 07.1	Spica	158 24.4	S 11 16.7
Hamal	327 53.7	N 23 34.0	*Alkaid*	152 53.5	N 49 12.4
Polaris	315 17.8	N 89 21.2	*Hadar*	148 38.7	S 60 29.1
Acamar	315 13.6	S 40 12.7	*Menkent*	147 59.6	S 36 28.7
Menkar	314 08.5	N 04 10.7	Arcturus	145 49.3	N 19 04.8
Mirfak	308 31.5	N 49 56.2	*Rigel Kentaurus*	139 40.2	S 60 56.0
Aldebaran	290 42.3	N 16 33.3	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.4	N 46 01.3	*Kocab*	137 19.2	N 74 04.1
Rigel	281 06.2	S 08 10.5	Alphecca	126 05.3	N 26 38.6
Bellatrix	278 25.4	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.9	N 28 37.6	*Atria*	107 13.6	S 69 04.1
Alnilam	275 40.2	S 01 11.2	Sabik	102 04.8	S 15 45.2
Betelgeuze	270 54.7	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.9	S 52 42.4	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.2	S 16 44.3	*Etamin*	90 42.6	N 51 29.2
Adhara	255 07.9	S 29 00.1	*Kaus Australis*	83 34.8	S 34 22.4
Castor	246 00.0	N 31 50.4	*Vega*	80 34.3	N 38 48.2
Procyon	244 53.1	N 05 10.5	Nunki	75 50.0	S 26 16.1
Pollux	243 19.9	N 27 58.4	Albireo	67 05.3	N 28 00.4
Avior	234 16.2	S 59 34.9	Altair	62 01.8	N 08 55.5
Suhail	222 48.2	S 43 31.4	*Peacock*	53 08.4	S 56 39.6
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2022 - First Point of Aries / Selected Stars

UT	day 211 of 365 July 30 GHA	ddGHA	day 212 of 365 July 31 GHA	ddGHA	day 213 of 365 August 1 GHA	ddGHA	day 214 of 365 August 2 GHA	ddGHA	day 215 of 365 August 3 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	307 36.8	+02.5	308 35.9	+02.5	309 35.1	+02.4	310 34.2	+02.5	311 33.3	+02.5	00
01	322 39.3	+02.4	323 38.4	+02.5	324 37.5	+02.5	325 36.7	+02.4	326 35.8	+02.5	01
02	337 41.7	+02.5	338 40.9	+02.4	339 40.0	+02.5	340 39.1	+02.5	341 38.3	+02.4	02
03	352 44.2	+02.4	353 43.3	+02.5	354 42.5	+02.4	355 41.6	+02.5	356 40.7	+02.5	03
04	7 46.6	+02.5	8 45.8	+02.4	9 44.9	+02.5	10 44.1	+02.4	11 43.2	+02.5	04
05	22 49.1	+02.4	23 48.2	+02.5	24 47.4	+02.4	25 46.5	+02.5	26 45.7	+02.4	05
06	37 51.6	+02.4	38 50.7	+02.5	39 49.8	+02.5	40 49.0	+02.4	41 48.1	+02.5	06
07	52 54.0	+02.5	53 53.2	+02.4	54 52.3	+02.5	55 51.4	+02.5	56 50.6	+02.5	07
08	67 56.5	+02.5	68 55.6	+02.5	69 54.8	+02.4	70 53.9	+02.5	71 53.1	+02.4	08
09	82 59.0	+02.4	83 58.1	+02.5	84 57.2	+02.5	85 56.4	+02.4	86 55.5	+02.5	09
10	98 01.4	+02.5	99 00.6	+02.4	99 59.7	+02.5	100 58.8	+02.5	101 58.0	+02.4	10
11	113 03.9	+02.5	114 03.0	+02.5	115 02.2	+02.4	116 01.3	+02.5	117 00.4	+02.5	11
12	128 06.4	+02.4	129 05.5	+02.5	130 04.6	+02.5	131 03.8	+02.4	132 02.9	+02.5	12
13	143 08.8	+02.5	144 08.0	+02.4	145 07.1	+02.5	146 06.2	+02.5	147 05.4	+02.4	13
14	158 11.3	+02.4	159 10.4	+02.5	160 09.6	+02.4	161 08.7	+02.5	162 07.8	+02.5	14
15	173 13.7	+02.5	174 12.9	+02.5	175 12.0	+02.5	176 11.2	+02.4	177 10.3	+02.5	15
16	188 16.2	+02.5	189 15.4	+02.4	190 14.5	+02.5	191 13.6	+02.5	192 12.8	+02.4	16
17	203 18.7	+02.4	204 17.8	+02.5	205 17.0	+02.4	206 16.1	+02.5	207 15.2	+02.5	17
18	218 21.1	+02.5	219 20.3	+02.4	220 19.4	+02.5	221 18.6	+02.4	222 17.7	+02.5	18
19	233 23.6	+02.5	234 22.7	+02.5	235 21.9	+02.4	236 21.0	+02.5	237 20.2	+02.4	19
20	248 26.1	+02.4	249 25.2	+02.5	250 24.3	+02.5	251 23.5	+02.4	252 22.6	+02.5	20
21	263 28.5	+02.5	264 27.7	+02.4	265 26.8	+02.5	266 25.9	+02.5	267 25.1	+02.4	21
22	278 31.0	+02.5	279 30.1	+02.5	280 29.3	+02.4	281 28.4	+02.5	282 27.5	+02.5	22
23	293 33.5	+02.4	294 32.6	+02.5	295 31.7	+02.5	296 30.9	+02.4	297 30.0	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
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Rigel	281 06.0	S 08 10.4	Alphecca	126 05.4	N 26 38.6
Bellatrix	278 25.3	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.7	N 28 37.6	*Atria*	107 13.8	S 69 04.2
Alnilam	275 40.0	S 01 11.2	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.5	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.8	S 52 42.3	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.1	S 16 44.2	*Etamin*	90 42.7	N 51 29.3
Adhara	255 07.8	S 28 60.0	*Kaus Australis*	83 34.8	S 34 22.4
Castor	245 59.9	N 31 50.4	*Vega*	80 34.3	N 38 48.3
Procyon	244 53.0	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.3	N 28 00.5
Avior	234 16.2	S 59 34.8	Altair	62 01.8	N 08 55.6
Suhail	222 48.2	S 43 31.3	*Peacock*	53 08.3	S 56 39.7
Miaplacidus	221 39.4	S 69 48.6	*Deneb*	49 26.7	N 45 21.6
Alphard	217 50.0	S 08 45.3	Enif	33 40.5	N 09 58.7
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.1	S 46 50.9
Dubhe	193 43.9	N 61 38.1	Formalhaut	15 16.6	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.7	N 15 19.6

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2022 - First Point of Aries / Selected Stars

UT	day 196 of 365 July 15 GHA	ddGHA	day 197 of 365 July 16 GHA	ddGHA	day 198 of 365 July 17 GHA	ddGHA	day 199 of 365 July 18 GHA	ddGHA	day 200 of 365 July 19 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	292 49.7	+02.5	293 48.8	+02.5	294 48.0	+02.4	295 47.1	+02.5	296 46.3	+02.4	00
01	307 52.2	+02.4	308 51.3	+02.5	309 50.4	+02.5	310 49.6	+02.4	311 48.7	+02.5	01
02	322 54.6	+02.5	323 53.8	+02.4	324 52.9	+02.5	325 52.0	+02.5	326 51.2	+02.4	02
03	337 57.1	+02.5	338 56.2	+02.5	339 55.4	+02.4	340 54.5	+02.5	341 53.6	+02.5	03
04	352 59.6	+02.4	353 58.7	+02.5	354 57.8	+02.5	355 57.0	+02.4	356 56.1	+02.5	04
05	8 02.0	+02.5	9 01.2	+02.4	10 00.3	+02.5	10 59.4	+02.5	11 58.6	+02.4	05
06	23 04.5	+02.4	24 03.6	+02.5	25 02.8	+02.4	26 01.9	+02.5	27 01.0	+02.5	06
07	38 06.9	+02.5	39 06.1	+02.5	40 05.2	+02.5	41 04.4	+02.4	42 03.5	+02.5	07
08	53 09.4	+02.5	54 08.6	+02.4	55 07.7	+02.5	56 06.8	+02.5	57 06.0	+02.4	08
09	68 11.9	+02.4	69 11.0	+02.5	70 10.2	+02.4	71 09.3	+02.5	72 08.4	+02.5	09
10	83 14.3	+02.5	84 13.5	+02.4	85 12.6	+02.5	86 11.8	+02.4	87 10.9	+02.5	10
11	98 16.8	+02.5	99 15.9	+02.5	100 15.1	+02.4	101 14.2	+02.5	102 13.4	+02.4	11
12	113 19.3	+02.4	114 18.4	+02.5	115 17.5	+02.5	116 16.7	+02.4	117 15.8	+02.5	12
13	128 21.7	+02.5	129 20.9	+02.4	130 20.0	+02.5	131 19.1	+02.5	132 18.3	+02.5	13
14	143 24.2	+02.5	144 23.3	+02.5	145 22.5	+02.4	146 21.6	+02.5	147 20.8	+02.4	14
15	158 26.7	+02.4	159 25.8	+02.5	160 24.9	+02.5	161 24.1	+02.4	162 23.2	+02.5	15
16	173 29.1	+02.5	174 28.3	+02.4	175 27.4	+02.5	176 26.5	+02.5	177 25.7	+02.4	16
17	188 31.6	+02.5	189 30.7	+02.5	190 29.9	+02.4	191 29.0	+02.5	192 28.1	+02.5	17
18	203 34.1	+02.4	204 33.2	+02.5	205 32.3	+02.5	206 31.5	+02.4	207 30.6	+02.5	18
19	218 36.5	+02.5	219 35.7	+02.4	220 34.8	+02.5	221 33.9	+02.5	222 33.1	+02.4	19
20	233 39.0	+02.4	234 38.1	+02.5	235 37.3	+02.4	236 36.4	+02.5	237 35.5	+02.5	20
21	248 41.4	+02.5	249 40.6	+02.4	250 39.7	+02.5	251 38.9	+02.4	252 38.0	+02.5	21
22	263 43.9	+02.5	264 43.0	+02.5	265 42.2	+02.5	266 41.3	+02.5	267 40.5	+02.4	22
23	278 46.4	+02.4	279 45.5	+02.5	280 44.7	+02.4	281 43.8	+02.5	282 42.9	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.8	N 29 12.8	Gienah	175 45.7	S 17 40.0
Ankaa	353 09.2	S 42 10.7	*Acrux*	173 02.5	S 63 13.6
Schedir	349 33.3	N 56 39.3	*Gacrux*	171 54.1	S 57 14.4
Diphda	348 49.4	S 17 51.7	*Alioth*	166 15.0	N 55 50.6
Achernar	335 21.8	S 57 07.1	Spica	158 24.4	S 11 16.7
Hamal	327 53.6	N 23 34.0	*Alkaid*	152 53.5	N 49 12.4
Polaris	315 12.7	N 89 21.2	*Hadar*	148 38.7	S 60 29.1
Acamar	315 13.5	S 40 12.7	*Menkent*	147 59.6	S 36 28.7
Menkar	314 08.4	N 04 10.7	Arcturus	145 49.3	N 19 04.9
Mirfak	308 31.4	N 49 56.2	*Rigel Kentaurus*	139 40.2	S 60 56.0
Aldebaran	290 42.2	N 16 33.3	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.3	N 46 01.3	*Kocab*	137 19.3	N 74 04.1
Rigel	281 06.1	S 08 10.5	Alphecca	126 05.3	N 26 38.6
Bellatrix	278 25.4	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.8	N 28 37.6	*Atria*	107 13.7	S 69 04.2
Alnilam	275 40.1	S 01 11.2	Sabik	102 04.8	S 15 45.2
Betelgeuze	270 54.6	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.8	S 52 42.3	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.2	S 16 44.3	*Etamin*	90 42.6	N 51 29.3
Adhara	255 07.8	S 29 00.1	*Kaus Australis*	83 34.8	S 34 22.4
Castor	245 60.0	N 31 50.4	*Vega*	80 34.3	N 38 48.2
Procyon	244 53.1	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.3	N 28 00.4
Avior	234 16.2	S 59 34.9	Altair	62 01.8	N 08 55.5
Suhail	222 48.2	S 43 31.4	*Peacock*	53 08.4	S 56 39.6
Miaplacidus	221 39.3	S 69 48.7	*Deneb*	49 26.7	N 45 21.5
Alphard	217 50.0	S 08 45.3	Enif	33 40.5	N 09 58.7
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.2	S 46 50.9
Dubhe	193 43.8	N 61 38.1	Formalhaut	15 16.7	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.7	N 15 19.5

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2022 - First Point of Aries / Selected Stars

UT	day 201 of 365 July 20 GHA	ddGHA	day 202 of 365 July 21 GHA	ddGHA	day 203 of 365 July 22 GHA	ddGHA	day 204 of 365 July 23 GHA	ddGHA	day 205 of 365 July 24 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	297 45.4	+02.5	298 44.5	+02.5	299 43.7	+02.4	300 42.8	+02.5	301 41.9	+02.5	00
01	312 47.9	+02.4	313 47.0	+02.5	314 46.1	+02.5	315 45.3	+02.4	316 44.4	+02.5	01
02	327 50.3	+02.5	328 49.5	+02.4	329 48.6	+02.5	330 47.7	+02.5	331 46.9	+02.4	02
03	342 52.8	+02.4	343 51.9	+02.5	344 51.1	+02.4	345 50.2	+02.5	346 49.3	+02.5	03
04	357 55.2	+02.5	358 54.4	+02.4	359 53.5	+02.5	0 52.7	+02.4	1 51.8	+02.5	04
05	12 57.7	+02.5	13 56.8	+02.5	14 56.0	+02.5	15 55.1	+02.5	16 54.3	+02.4	05
06	28 00.2	+02.4	28 59.3	+02.5	29 58.5	+02.4	30 57.6	+02.5	31 56.7	+02.5	06
07	43 02.6	+02.5	44 01.8	+02.4	45 00.9	+02.5	46 00.1	+02.4	46 59.2	+02.5	07
08	58 05.1	+02.5	59 04.2	+02.5	60 03.4	+02.4	61 02.5	+02.5	62 01.7	+02.4	08
09	73 07.6	+02.4	74 06.7	+02.5	75 05.8	+02.5	76 05.0	+02.4	77 04.1	+02.5	09
10	88 10.0	+02.5	89 09.2	+02.4	90 08.3	+02.5	91 07.4	+02.5	92 06.6	+02.5	10
11	103 12.5	+02.5	104 11.6	+02.5	105 10.8	+02.4	106 09.9	+02.5	107 09.1	+02.4	11
12	118 15.0	+02.4	119 14.1	+02.5	120 13.2	+02.5	121 12.4	+02.4	122 11.5	+02.5	12
13	133 17.4	+02.5	134 16.6	+02.4	135 15.7	+02.5	136 14.8	+02.5	137 14.0	+02.4	13
14	148 19.9	+02.5	149 19.0	+02.5	150 18.2	+02.4	151 17.3	+02.5	152 16.4	+02.5	14
15	163 22.4	+02.4	164 21.5	+02.5	165 20.6	+02.5	166 19.8	+02.4	167 18.9	+02.5	15
16	178 24.8	+02.5	179 24.0	+02.4	180 23.1	+02.5	181 22.2	+02.5	182 21.4	+02.4	16
17	193 27.3	+02.4	194 26.4	+02.5	195 25.6	+02.4	196 24.7	+02.5	197 23.8	+02.5	17
18	208 29.7	+02.5	209 28.9	+02.4	210 28.0	+02.5	211 27.2	+02.4	212 26.3	+02.5	18
19	223 32.2	+02.5	224 31.3	+02.5	225 30.5	+02.5	226 29.6	+02.5	227 28.8	+02.4	19
20	238 34.7	+02.4	239 33.8	+02.5	240 33.0	+02.4	241 32.1	+02.5	242 31.2	+02.5	20
21	253 37.1	+02.5	254 36.3	+02.4	255 35.4	+02.5	256 34.6	+02.4	257 33.7	+02.5	21
22	268 39.6	+02.5	269 38.7	+02.5	270 37.9	+02.4	271 37.0	+02.5	272 36.2	+02.4	22
23	283 42.1	+02.4	284 41.2	+02.5	285 40.3	+02.5	286 39.5	+02.4	287 38.6	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.8	N 29 12.8	Gienah	175 45.8	S 17 40.0
Ankaa	353 09.1	S 42 10.7	*Acrux*	173 02.6	S 63 13.6
Schedir	349 33.2	N 56 39.4	*Gacrux*	171 54.1	S 57 14.4
Diphda	348 49.3	S 17 51.7	*Alioth*	166 15.0	N 55 50.6
Achernar	335 21.8	S 57 07.1	Spica	158 24.5	S 11 16.7
Hamal	327 53.6	N 23 34.0	*Alkaid*	152 53.6	N 49 12.4
Polaris	315 10.5	N 89 21.2	*Hadar*	148 38.8	S 60 29.1
Acamar	315 13.4	S 40 12.7	*Menkent*	147 59.7	S 36 28.7
Menkar	314 08.4	N 04 10.7	Arcturus	145 49.4	N 19 04.9
Mirfak	308 31.4	N 49 56.2	*Rigel Kentaurus*	139 40.3	S 60 56.0
Aldebaran	290 42.2	N 16 33.3	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 25.3	N 46 01.3	*Kocab*	137 19.4	N 74 04.1
Rigel	281 06.1	S 08 10.5	Alphecca	126 05.3	N 26 38.6
Bellatrix	278 25.3	N 06 22.2	Antares	112 18.2	S 26 28.9
Elnath	278 04.8	N 28 37.6	*Atria*	107 13.7	S 69 04.2
Alnilam	275 40.1	S 01 11.2	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.6	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.8	S 52 42.3	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.2	S 16 44.3	*Etamin*	90 42.6	N 51 29.3
Adhara	255 07.8	S 29 00.0	*Kaus Australis*	83 34.8	S 34 22.4
Castor	245 60.0	N 31 50.4	*Vega*	80 34.3	N 38 48.2
Procyon	244 53.1	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.3	N 28 00.4
Avior	234 16.2	S 59 34.9	Altair	62 01.8	N 08 55.6
Suhail	222 48.2	S 43 31.4	*Peacock*	53 08.3	S 56 39.6
Miaplacidus	221 39.4	S 69 48.6	*Deneb*	49 26.7	N 45 21.6
Alphard	217 50.0	S 08 45.3	Enif	33 40.5	N 09 58.7
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.1	S 46 50.9
Dubhe	193 43.9	N 61 38.1	Formalhaut	15 16.6	S 29 30.0
Denebola	182 27.0	N 14 27.0	Markab	13 31.7	N 15 19.5

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2022 - First Point of Aries / Selected Stars

UT	day 206 of 365 July 25 GHA	ddGHA	day 207 of 365 July 26 GHA	ddGHA	day 208 of 365 July 27 GHA	ddGHA	day 209 of 365 July 28 GHA	ddGHA	day 210 of 365 July 29 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	302 41.1	+02.5	303 40.2	+02.5	304 39.4	+02.4	305 38.5	+02.5	306 37.6	+02.5	00
01	317 43.6	+02.4	318 42.7	+02.5	319 41.8	+02.5	320 41.0	+02.4	321 40.1	+02.5	01
02	332 46.0	+02.5	333 45.2	+02.4	334 44.3	+02.5	335 43.4	+02.5	336 42.6	+02.4	02
03	347 48.5	+02.4	348 47.6	+02.5	349 46.8	+02.4	350 45.9	+02.5	351 45.0	+02.5	03
04	2 50.9	+02.5	3 50.1	+02.4	4 49.2	+02.5	5 48.4	+02.4	6 47.5	+02.5	04
05	17 53.4	+02.5	18 52.5	+02.5	19 51.7	+02.5	20 50.8	+02.5	21 50.0	+02.4	05
06	32 55.9	+02.4	33 55.0	+02.5	34 54.2	+02.4	35 53.3	+02.5	36 52.4	+02.5	06
07	47 58.3	+02.5	48 57.5	+02.4	49 56.6	+02.5	50 55.8	+02.4	51 54.9	+02.5	07
08	63 00.8	+02.5	63 59.9	+02.5	64 59.1	+02.4	65 58.2	+02.5	66 57.4	+02.4	08
09	78 03.3	+02.4	79 02.4	+02.5	80 01.5	+02.5	81 00.7	+02.5	81 59.8	+02.5	09
10	93 05.7	+02.5	94 04.9	+02.4	95 04.0	+02.5	96 03.2	+02.4	97 02.3	+02.5	10
11	108 08.2	+02.5	109 07.3	+02.5	110 06.5	+02.4	111 05.6	+02.5	112 04.8	+02.4	11
12	123 10.7	+02.4	124 09.8	+02.5	125 08.9	+02.5	126 08.1	+02.4	127 07.2	+02.5	12
13	138 13.1	+02.5	139 12.3	+02.4	140 11.4	+02.5	141 10.5	+02.5	142 09.7	+02.4	13
14	153 15.6	+02.5	154 14.7	+02.5	155 13.9	+02.4	156 13.0	+02.5	157 12.1	+02.5	14
15	168 18.1	+02.4	169 17.2	+02.5	170 16.3	+02.5	171 15.5	+02.4	172 14.6	+02.5	15
16	183 20.5	+02.5	184 19.7	+02.4	185 18.8	+02.5	186 17.9	+02.5	187 17.1	+02.4	16
17	198 23.0	+02.4	199 22.1	+02.5	200 21.3	+02.4	201 20.4	+02.5	202 19.5	+02.5	17
18	213 25.4	+02.5	214 24.6	+02.4	215 23.7	+02.5	216 22.9	+02.4	217 22.0	+02.5	18
19	228 27.9	+02.5	229 27.0	+02.5	230 26.2	+02.5	231 25.3	+02.5	232 24.5	+02.4	19
20	243 30.4	+02.4	244 29.5	+02.5	245 28.7	+02.4	246 27.8	+02.5	247 26.9	+02.5	20
21	258 32.8	+02.5	259 32.0	+02.4	260 31.1	+02.5	261 30.3	+02.4	262 29.4	+02.5	21
22	273 35.3	+02.5	274 34.4	+02.5	275 33.6	+02.4	276 32.7	+02.5	277 31.9	+02.4	22
23	288 37.8	+02.4	289 36.9	+02.5	290 36.0	+02.5	291 35.2	+02.4	292 34.3	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.7	N 29 12.8	Gienah	175 45.8	S 17 40.0
Ankaa	353 09.1	S 42 10.7	*Acrux*	173 02.6	S 63 13.6
Schedir	349 33.1	N 56 39.4	*Gacrux*	171 54.1	S 57 14.4
Diphda	348 49.3	S 17 51.7	*Alioth*	166 15.1	N 55 50.6
Achernar	335 21.7	S 57 07.1	Spica	158 24.5	S 11 16.7
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Capella	280 25.3	N 46 01.2	*Kocab*	137 19.5	N 74 04.1
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Canopus	263 53.8	S 52 42.3	Rasalhague	96 00.2	N 12 32.8
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Pollux	243 19.8	N 27 58.4	Albireo	67 05.3	N 28 00.5
Avior	234 16.2	S 59 34.8	Altair	62 01.8	N 08 55.6
Suhail	222 48.2	S 43 31.4	*Peacock*	53 08.3	S 56 39.7
Miaplacidus	221 39.4	S 69 48.6	*Deneb*	49 26.7	N 45 21.6
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2022 - First Point of Aries / Selected Stars

UT	day 231 of 365 *August 19* GHA ° ′	ddGHA ′	day 232 of 365 *August 20* GHA ° ′	ddGHA ′	day 233 of 365 *August 21* GHA ° ′	ddGHA ′	day 234 of 365 *August 22* GHA ° ′	ddGHA ′	day 235 of 365 *August 23* GHA ° ′	ddGHA ′	UT
00	327 19.6	+02.4	328 18.7	+02.5	329 17.8	+02.5	330 17.0	+02.4	331 16.1	+02.5	00
01	342 22.0	+02.5	343 21.2	+02.4	344 20.3	+02.5	345 19.4	+02.5	346 18.6	+02.4	01
02	357 24.5	+02.5	358 23.6	+02.5	359 22.8	+02.4	0 21.9	+02.5	1 21.0	+02.5	02
03	12 27.0	+02.4	13 26.1	+02.5	14 25.2	+02.5	15 24.4	+02.4	16 23.5	+02.5	03
04	27 29.4	+02.5	28 28.6	+02.4	29 27.7	+02.5	30 26.8	+02.5	31 26.0	+02.4	04
05	42 31.9	+02.5	43 31.0	+02.5	44 30.2	+02.4	45 29.3	+02.5	46 28.4	+02.5	05
06	57 34.3	+02.5	58 33.5	+02.4	59 32.6	+02.5	60 31.8	+02.4	61 30.9	+02.5	06
07	72 36.8	+02.5	73 35.9	+02.5	74 35.1	+02.5	75 34.2	+02.5	76 33.4	+02.4	07
08	87 39.3	+02.4	88 38.4	+02.5	89 37.6	+02.4	90 36.7	+02.5	91 35.8	+02.5	08
09	102 41.7	+02.5	103 40.9	+02.4	104 40.0	+02.5	105 39.2	+02.4	106 38.3	+02.5	09
10	117 44.2	+02.5	118 43.3	+02.5	119 42.5	+02.4	120 41.6	+02.5	121 40.8	+02.4	10
11	132 46.7	+02.4	133 45.8	+02.5	134 44.9	+02.5	135 44.1	+02.4	136 43.2	+02.5	11
12	147 49.1	+02.5	148 48.3	+02.4	149 47.4	+02.5	150 46.5	+02.5	151 45.7	+02.5	12
13	162 51.6	+02.5	163 50.7	+02.5	164 49.9	+02.4	165 49.0	+02.5	166 48.2	+02.4	13
14	177 54.1	+02.4	178 53.2	+02.5	179 52.3	+02.5	180 51.5	+02.4	181 50.6	+02.5	14
15	192 56.5	+02.5	193 55.7	+02.4	194 54.8	+02.5	195 53.9	+02.5	196 53.1	+02.4	15
16	207 59.0	+02.5	208 58.1	+02.5	209 57.3	+02.4	210 56.4	+02.5	211 55.5	+02.5	16
17	223 01.5	+02.4	224 00.6	+02.5	224 59.7	+02.5	225 58.9	+02.4	226 58.0	+02.5	17
18	238 03.9	+02.5	239 03.1	+02.4	240 02.2	+02.5	241 01.3	+02.5	242 00.5	+02.4	18
19	253 06.4	+02.4	254 05.5	+02.5	255 04.7	+02.4	256 03.8	+02.5	257 02.9	+02.5	19
20	268 08.8	+02.5	269 08.0	+02.4	270 07.1	+02.5	271 06.3	+02.4	272 05.4	+02.5	20
21	283 11.3	+02.5	284 10.4	+02.5	285 09.6	+02.5	286 08.7	+02.5	287 07.9	+02.4	21
22	298 13.8	+02.4	299 12.9	+02.5	300 12.1	+02.4	301 11.2	+02.5	302 10.3	+02.5	22
23	313 16.2	+02.5	314 15.4	+02.4	315 14.5	+02.5	316 13.7	+02.4	317 12.8	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.6	N 29 12.9	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.9	S 42 10.7	*Acrux*	173 02.8	S 63 13.5
Schedir	349 32.9	N 56 39.5	*Gacrux*	171 54.3	S 57 14.4
Diphda	348 49.1	S 17 51.7	*Alioth*	166 15.2	N 55 50.6
Achernar	335 21.4	S 57 07.1	Spica	158 24.5	S 11 16.6
Hamal	327 53.4	N 23 34.1	*Alkaid*	152 53.7	N 49 12.4
Polaris	314 54.9	N 89 21.2	*Hadar*	148 39.0	S 60 29.0
Acamar	315 13.2	S 40 12.6	*Menkent*	147 59.8	S 36 28.6
Menkar	314 08.2	N 04 10.8	Arcturus	145 49.5	N 19 04.9
Mirfak	308 31.0	N 49 56.3	*Rigel Kentaurus*	139 40.5	S 60 56.0
Aldebaran	290 42.0	N 16 33.3	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.0	N 46 01.2	*Kocab*	137 20.0	N 74 04.1
Rigel	281 05.9	S 08 10.4	Alphecca	126 05.5	N 26 38.6
Bellatrix	278 25.1	N 06 22.3	Antares	112 18.3	S 26 28.9
Elnath	278 04.5	N 28 37.6	*Atria*	107 14.0	S 69 04.3
Alnilam	275 39.9	S 01 11.1	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.4	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.6	S 52 42.2	Rasalhague	96 00.2	N 12 32.9
Sirius	258 28.0	S 16 44.2	*Etamin*	90 42.8	N 51 29.4
Adhara	255 07.7	S 28 59.9	*Kaus Australis*	83 34.8	S 34 22.4
Castor	245 59.8	N 31 50.4	*Vega*	80 34.3	N 38 48.4
Procyon	244 52.9	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 05.3	N 28 00.6
Avior	234 16.1	S 59 34.7	Altair	62 01.8	N 08 55.6
Suhail	222 48.2	S 43 31.3	*Peacock*	53 08.3	S 56 39.7
Miaplacidus	221 39.4	S 69 48.5	*Deneb*	49 26.7	N 45 21.7
Alphard	217 50.0	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.0	S 46 51.0
Dubhe	193 44.0	N 61 38.0	Formalhaut	15 16.5	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.6	N 15 19.6

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2022 - First Point of Aries / Selected Stars

UT	day 216 of 365 *August 4* GHA ° ′	ddGHA ′	day 217 of 365 *August 5* GHA ° ′	ddGHA ′	day 218 of 365 *August 6* GHA ° ′	ddGHA ′	day 219 of 365 *August 7* GHA ° ′	ddGHA ′	day 220 of 365 *August 8* GHA ° ′	ddGHA ′	UT
00	312 32.5	+02.4	313 31.6	+02.5	314 30.8	+02.4	315 29.9	+02.5	316 29.0	+02.5	00
01	327 34.9	+02.5	328 34.1	+02.4	329 33.2	+02.5	330 32.4	+02.4	331 31.5	+02.5	01
02	342 37.4	+02.5	343 36.5	+02.5	344 35.7	+02.4	345 34.8	+02.5	346 34.0	+02.4	02
03	357 39.9	+02.4	358 39.0	+02.5	359 38.1	+02.5	0 37.3	+02.4	1 36.4	+02.5	03
04	12 42.3	+02.5	13 41.5	+02.4	14 40.6	+02.5	15 39.7	+02.5	16 38.9	+02.5	04
05	27 44.8	+02.5	28 43.9	+02.5	29 43.1	+02.4	30 42.2	+02.5	31 41.4	+02.4	05
06	42 47.3	+02.4	43 46.4	+02.5	44 45.5	+02.5	45 44.7	+02.4	46 43.8	+02.5	06
07	57 49.7	+02.5	58 48.9	+02.4	59 48.0	+02.5	60 47.1	+02.5	61 46.3	+02.4	07
08	72 52.2	+02.5	73 51.3	+02.5	74 50.5	+02.4	75 49.6	+02.5	76 48.7	+02.5	08
09	87 54.7	+02.4	88 53.8	+02.5	89 52.9	+02.5	90 52.1	+02.4	91 51.2	+02.5	09
10	102 57.1	+02.5	103 56.3	+02.4	104 55.4	+02.5	105 54.5	+02.5	106 53.7	+02.4	10
11	117 59.6	+02.4	118 58.7	+02.5	119 57.9	+02.4	120 57.0	+02.5	121 56.1	+02.5	11
12	133 02.0	+02.5	134 01.2	+02.4	135 00.3	+02.5	135 59.5	+02.4	136 58.6	+02.5	12
13	148 04.5	+02.5	149 03.6	+02.5	150 02.8	+02.5	151 01.9	+02.5	152 01.1	+02.4	13
14	163 07.0	+02.4	164 06.1	+02.5	165 05.3	+02.4	166 04.4	+02.5	167 03.5	+02.5	14
15	178 09.4	+02.5	179 08.6	+02.4	180 07.7	+02.5	181 06.9	+02.4	182 06.0	+02.5	15
16	193 11.9	+02.5	194 11.0	+02.5	195 10.2	+02.4	196 09.3	+02.5	197 08.5	+02.4	16
17	208 14.4	+02.4	209 13.5	+02.5	210 12.6	+02.5	211 11.8	+02.4	212 10.9	+02.5	17
18	223 16.8	+02.5	224 16.0	+02.4	225 15.1	+02.5	226 14.2	+02.5	227 13.4	+02.5	18
19	238 19.3	+02.5	239 18.4	+02.5	240 17.6	+02.4	241 16.7	+02.5	242 15.9	+02.4	19
20	253 21.8	+02.4	254 20.9	+02.5	255 20.0	+02.5	256 19.2	+02.4	257 18.3	+02.5	20
21	268 24.2	+02.5	269 23.4	+02.4	270 22.5	+02.5	271 21.6	+02.5	272 20.8	+02.4	21
22	283 26.7	+02.4	284 25.8	+02.5	285 25.0	+02.4	286 24.1	+02.5	287 23.2	+02.5	22
23	298 29.1	+02.5	299 28.3	+02.5	300 27.4	+02.5	301 26.6	+02.4	302 25.7	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.7	N 29 12.8	Gienah	175 45.8	S 17 40.0
Ankaa	353 09.0	S 42 10.7	*Acrux*	173 02.7	S 63 13.6
Schedir	349 33.0	N 56 39.4	*Gacrux*	171 54.2	S 57 14.4
Diphda	348 49.2	S 17 51.7	*Alioth*	166 15.1	N 55 50.6
Achernar	335 21.6	S 57 07.1	Spica	158 24.5	S 11 16.6
Hamal	327 53.5	N 23 34.1	*Alkaid*	152 53.7	N 49 12.4
Polaris	315 02.8	N 89 21.2	*Hadar*	148 38.9	S 60 29.1
Acamar	315 13.3	S 40 12.6	*Menkent*	147 59.7	S 36 28.6
Menkar	314 08.3	N 04 10.7	Arcturus	145 49.4	N 19 04.9
Mirfak	308 31.2	N 49 56.2	*Rigel Kentaurus*	139 40.4	S 60 56.1
Aldebaran	290 42.1	N 16 33.3	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.2	N 46 01.2	*Kocab*	137 19.7	N 74 04.1
Rigel	281 06.0	S 08 10.4	Alphecca	126 05.4	N 26 38.6
Bellatrix	278 25.2	N 06 22.3	Antares	112 18.2	S 26 28.9
Elnath	278 04.7	N 28 37.6	*Atria*	107 13.8	S 69 04.2
Alnilam	275 40.0	S 01 11.2	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.5	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.7	S 52 42.2	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.1	S 16 44.2	*Etamin*	90 42.7	N 51 29.3
Adhara	255 07.8	S 28 60.0	*Kaus Australis*	83 34.8	S 34 22.4
Castor	245 59.9	N 31 50.4	*Vega*	80 34.3	N 38 48.3
Procyon	244 53.0	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.8	N 27 58.4	Albireo	67 05.3	N 28 00.5
Avior	234 16.2	S 59 34.8	Altair	62 01.8	N 08 55.6
Suhail	222 48.2	S 43 31.3	*Peacock*	53 08.3	S 56 39.7
Miaplacidus	221 39.4	S 69 48.6	*Deneb*	49 26.7	N 45 21.6
Alphard	217 50.0	S 08 45.3	Enif	33 40.4	N 09 58.7
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.1	S 46 50.9
Dubhe	193 43.9	N 61 38.0	Formalhaut	15 16.5	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.6	N 15 19.6

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2022 - First Point of Aries / Selected Stars

UT	day 221 of 365 **August 9** GHA	ddGHA	day 222 of 365 **August 10** GHA	ddGHA	day 223 of 365 **August 11** GHA	ddGHA	day 224 of 365 **August 12** GHA	ddGHA	day 225 of 365 **August 13** GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	317 28.2	+02.4	318 27.3	+02.5	319 26.5	+02.4	320 25.6	+02.5	321 24.7	+02.5	00
01	332 30.6	+02.5	333 29.8	+02.4	334 28.9	+02.5	335 28.1	+02.4	336 27.2	+02.5	01
02	347 33.1	+02.5	348 32.2	+02.5	349 31.4	+02.4	350 30.5	+02.5	351 29.7	+02.4	02
03	2 35.6	+02.4	3 34.7	+02.5	4 33.8	+02.5	5 33.0	+02.5	6 32.1	+02.5	03
04	17 38.0	+02.5	18 37.2	+02.4	19 36.3	+02.5	20 35.5	+02.4	21 34.6	+02.5	04
05	32 40.5	+02.5	33 39.6	+02.5	34 38.8	+02.4	35 37.9	+02.5	36 37.1	+02.4	05
06	47 43.0	+02.4	48 42.1	+02.5	49 41.2	+02.5	50 40.4	+02.4	51 39.5	+02.5	06
07	62 45.4	+02.5	63 44.6	+02.4	64 43.7	+02.5	65 42.8	+02.5	66 42.0	+02.4	07
08	77 47.9	+02.5	78 47.0	+02.5	79 46.2	+02.4	80 45.3	+02.5	81 44.4	+02.5	08
09	92 50.4	+02.4	93 49.5	+02.5	94 48.6	+02.5	95 47.8	+02.4	96 46.9	+02.5	09
10	107 52.8	+02.5	108 52.0	+02.4	109 51.1	+02.5	110 50.2	+02.5	111 49.4	+02.4	10
11	122 55.3	+02.4	123 54.4	+02.5	124 53.6	+02.4	125 52.7	+02.5	126 51.8	+02.5	11
12	137 57.7	+02.5	138 56.9	+02.5	139 56.0	+02.5	140 55.2	+02.4	141 54.3	+02.5	12
13	153 00.2	+02.5	153 59.4	+02.4	154 58.5	+02.5	155 57.6	+02.5	156 56.8	+02.4	13
14	168 02.7	+02.4	169 01.8	+02.5	170 01.0	+02.4	171 00.1	+02.5	171 59.2	+02.5	14
15	183 05.1	+02.5	184 04.3	+02.4	185 03.4	+02.5	186 02.6	+02.4	187 01.7	+02.5	15
16	198 07.6	+02.5	199 06.7	+02.5	200 05.9	+02.4	201 05.0	+02.5	202 04.2	+02.4	16
17	213 10.1	+02.4	214 09.2	+02.5	215 08.3	+02.5	216 07.5	+02.5	217 06.6	+02.5	17
18	228 12.5	+02.5	229 11.7	+02.4	230 10.8	+02.5	231 10.0	+02.4	232 09.1	+02.5	18
19	243 15.0	+02.5	244 14.1	+02.5	245 13.3	+02.4	246 12.4	+02.5	247 11.6	+02.4	19
20	258 17.5	+02.4	259 16.6	+02.5	260 15.7	+02.5	261 14.9	+02.4	262 14.0	+02.5	20
21	273 19.9	+02.5	274 19.1	+02.4	275 18.2	+02.5	276 17.3	+02.5	277 16.5	+02.4	21
22	288 22.4	+02.5	289 21.5	+02.5	290 20.7	+02.4	291 19.8	+02.5	292 18.9	+02.5	22
23	303 24.9	+02.4	304 24.0	+02.5	305 23.1	+02.5	306 22.3	+02.4	307 21.4	+02.5	23

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Alnilam	275 40.0	S 01 11.2	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.5	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.7	S 52 42.2	Rasalhague	96 00.2	N 12 32.8
Sirius	258 28.1	S 16 44.2	*Etamin*	90 42.7	N 51 29.4
Adhara	255 07.7	S 28 60.0	*Kaus Australis*	83 34.8	S 34 22.4
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Procyon	244 53.0	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 05.3	N 28 00.5
Avior	234 16.2	S 59 34.8	Altair	62 01.7	N 08 55.6
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Miaplacidus	221 39.4	S 69 48.5	*Deneb*	49 26.7	N 45 21.7
Alphard	217 50.0	S 08 45.3	Enif	33 40.4	N 09 58.7
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.0	S 46 51.0
Dubhe	193 43.9	N 61 38.0	Formalhaut	15 16.5	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.6	N 15 19.6

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2022 - First Point of Aries / Selected Stars

UT	day 226 of 365 **August 14** GHA	ddGHA	day 227 of 365 **August 15** GHA	ddGHA	day 228 of 365 **August 16** GHA	ddGHA	day 229 of 365 **August 17** GHA	ddGHA	day 230 of 365 **August 18** GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	322 23.9	+02.4	323 23.0	+02.5	324 22.1	+02.5	325 21.3	+02.4	326 20.4	+02.5	00
01	337 26.3	+02.5	338 25.5	+02.4	339 24.6	+02.5	340 23.7	+02.5	341 22.9	+02.5	01
02	352 28.8	+02.5	353 27.9	+02.5	354 27.1	+02.4	355 26.2	+02.5	356 25.4	+02.4	02
03	7 31.3	+02.4	8 30.4	+02.5	9 29.5	+02.5	10 28.7	+02.4	11 27.8	+02.5	03
04	22 33.7	+02.5	23 32.9	+02.4	24 32.0	+02.5	25 31.1	+02.5	26 30.3	+02.4	04
05	37 36.2	+02.5	38 35.3	+02.5	39 34.5	+02.4	40 33.6	+02.5	41 32.7	+02.5	05
06	52 38.7	+02.4	53 37.8	+02.5	54 36.9	+02.5	55 36.1	+02.4	56 35.2	+02.5	06
07	67 41.1	+02.5	68 40.3	+02.4	69 39.4	+02.5	70 38.5	+02.5	71 37.7	+02.4	07
08	82 43.6	+02.4	83 42.7	+02.5	84 41.9	+02.4	85 41.0	+02.5	86 40.1	+02.5	08
09	97 46.0	+02.5	98 45.2	+02.5	99 44.3	+02.5	100 43.5	+02.4	101 42.6	+02.5	09
10	112 48.5	+02.5	113 47.7	+02.4	114 46.8	+02.5	115 45.9	+02.5	116 45.1	+02.4	10
11	127 51.0	+02.4	128 50.1	+02.5	129 49.3	+02.4	130 48.4	+02.5	131 47.5	+02.5	11
12	142 53.4	+02.5	143 52.6	+02.4	144 51.7	+02.5	145 50.9	+02.4	146 50.0	+02.5	12
13	157 55.9	+02.5	158 55.0	+02.5	159 54.2	+02.4	160 53.3	+02.5	161 52.5	+02.4	13
14	172 58.4	+02.4	173 57.5	+02.5	174 56.6	+02.5	175 55.8	+02.4	176 54.9	+02.5	14
15	188 00.8	+02.5	188 60.0	+02.4	189 59.1	+02.5	190 58.2	+02.5	191 57.4	+02.4	15
16	203 03.3	+02.5	204 02.4	+02.5	205 01.6	+02.4	206 00.7	+02.5	206 59.8	+02.5	16
17	218 05.8	+02.4	219 04.9	+02.5	220 04.0	+02.5	221 03.2	+02.4	222 02.3	+02.5	17
18	233 08.2	+02.5	234 07.4	+02.4	235 06.5	+02.5	236 05.6	+02.5	237 04.8	+02.4	18
19	248 10.7	+02.5	249 09.8	+02.5	250 09.0	+02.4	251 08.1	+02.5	252 07.2	+02.5	19
20	263 13.2	+02.4	264 12.3	+02.5	265 11.4	+02.5	266 10.6	+02.4	267 09.7	+02.5	20
21	278 15.6	+02.5	279 14.8	+02.4	280 13.9	+02.5	281 13.0	+02.5	282 12.2	+02.4	21
22	293 18.1	+02.4	294 17.2	+02.5	295 16.4	+02.4	296 15.5	+02.5	297 14.6	+02.5	22
23	308 20.5	+02.5	309 19.7	+02.4	310 18.8	+02.5	311 18.0	+02.4	312 17.1	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.6	N 29 12.9	Gienah	175 45.8	S 17 40.0
Ankaa	353 08.9	S 42 10.7	*Acrux*	173 02.7	S 63 13.6
Schedir	349 32.9	N 56 39.5	*Gacrux*	171 54.3	S 57 14.4
Diphda	348 49.1	S 17 51.7	*Alioth*	166 15.2	N 55 50.6
Achernar	335 21.5	S 57 07.1	Spica	158 24.5	S 11 16.6
Hamal	327 53.4	N 23 34.1	*Alkaid*	152 53.7	N 49 12.4
Polaris	314 57.5	N 89 21.2	*Hadar*	148 39.0	S 60 29.1
Acamar	315 13.2	S 40 12.6	*Menkent*	147 59.8	S 36 28.6
Menkar	314 08.2	N 04 10.8	Arcturus	145 49.4	N 19 04.9
Mirfak	308 31.1	N 49 56.3	*Rigel Kentaurus*	139 40.5	S 60 56.0
Aldebaran	290 42.0	N 16 33.3	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 25.1	N 46 01.2	*Kocab*	137 19.9	N 74 04.1
Rigel	281 05.9	S 08 10.4	Alphecca	126 05.4	N 26 38.6
Bellatrix	278 25.2	N 06 22.3	Antares	112 18.3	S 26 28.9
Elnath	278 04.6	N 28 37.6	*Atria*	107 13.9	S 69 04.3
Alnilam	275 39.9	S 01 11.1	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.4	N 07 24.7	*Shaula*	96 12.8	S 37 07.2
Canopus	263 53.7	S 52 42.2	Rasalhague	96 00.2	N 12 32.9
Sirius	258 28.1	S 16 44.2	*Etamin*	90 42.8	N 51 29.4
Adhara	255 07.7	S 28 59.9	*Kaus Australis*	83 34.8	S 34 22.4
Castor	245 59.9	N 31 50.4	*Vega*	80 34.3	N 38 48.3
Procyon	244 53.0	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.7	N 27 58.4	Albireo	67 05.3	N 28 00.5
Avior	234 16.1	S 59 34.7	Altair	62 01.7	N 08 55.6
Suhail	222 48.2	S 43 31.3	*Peacock*	53 08.3	S 56 39.7
Miaplacidus	221 39.4	S 69 48.5	*Deneb*	49 26.7	N 45 21.7
Alphard	217 50.0	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.8	N 11 51.6	*Alnair*	27 35.0	S 46 51.0
Dubhe	193 43.9	N 61 38.0	Formalhaut	15 16.5	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.6	N 15 19.6

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2022 - First Point of Aries / Selected Stars

UT	day 251 of 365 **September 8** GHA ° ′	ddGHA ′	day 252 of 365 **September 9** GHA ° ′	ddGHA ′	day 253 of 365 **September 10** GHA ° ′	ddGHA ′	day 254 of 365 **September 11** GHA ° ′	ddGHA ′	day 255 of 365 **September 12** GHA ° ′	ddGHA ′	UT
00	347 02.3	+02.5	348 01.5	+02.4	349 00.6	+02.5	349 59.8	+02.4	350 58.9	+02.5	00
01	2 04.8	+02.5	3 03.9	+02.5	4 03.1	+02.4	5 02.2	+02.5	6 01.4	+02.4	01
02	17 07.3	+02.4	18 06.4	+02.5	19 05.5	+02.5	20 04.7	+02.4	21 03.8	+02.5	02
03	32 09.7	+02.5	33 08.9	+02.4	34 08.0	+02.5	35 07.1	+02.5	36 06.3	+02.4	03
04	47 12.2	+02.5	48 11.3	+02.5	49 10.5	+02.4	50 09.6	+02.5	51 08.7	+02.5	04
05	62 14.7	+02.4	63 13.8	+02.5	64 12.9	+02.5	65 12.1	+02.4	66 11.2	+02.5	05
06	77 17.1	+02.5	78 16.3	+02.4	79 15.4	+02.5	80 14.5	+02.5	81 13.7	+02.4	06
07	92 19.6	+02.5	93 18.7	+02.5	94 17.9	+02.4	95 17.0	+02.5	96 16.1	+02.5	07
08	107 22.1	+02.4	108 21.2	+02.5	109 20.3	+02.5	110 19.5	+02.4	111 18.6	+02.5	08
09	122 24.5	+02.5	123 23.7	+02.4	124 22.8	+02.5	125 21.9	+02.5	126 21.1	+02.4	09
10	137 27.0	+02.4	138 26.1	+02.5	139 25.3	+02.4	140 24.4	+02.5	141 23.5	+02.5	10
11	152 29.4	+02.5	153 28.6	+02.4	154 27.7	+02.5	155 26.9	+02.4	156 26.0	+02.5	11
12	167 31.9	+02.5	168 31.0	+02.5	169 30.2	+02.4	170 29.3	+02.5	171 28.5	+02.4	12
13	182 34.4	+02.4	183 33.5	+02.5	184 32.6	+02.5	185 31.8	+02.4	186 30.9	+02.5	13
14	197 36.8	+02.5	198 36.0	+02.4	199 35.1	+02.5	200 34.2	+02.5	201 33.4	+02.4	14
15	212 39.3	+02.5	213 38.4	+02.5	214 37.6	+02.4	215 36.7	+02.5	216 35.8	+02.5	15
16	227 41.8	+02.4	228 40.9	+02.5	229 40.0	+02.5	230 39.2	+02.4	231 38.3	+02.5	16
17	242 44.2	+02.5	243 43.4	+02.4	244 42.5	+02.5	245 41.6	+02.5	246 40.8	+02.4	17
18	257 46.7	+02.5	258 45.8	+02.5	259 45.0	+02.4	260 44.1	+02.5	261 43.2	+02.5	18
19	272 49.2	+02.4	273 48.3	+02.5	274 47.4	+02.5	275 46.6	+02.4	276 45.7	+02.5	19
20	287 51.6	+02.5	288 50.8	+02.4	289 49.9	+02.5	290 49.0	+02.5	291 48.2	+02.4	20
21	302 54.1	+02.4	303 53.2	+02.5	304 52.4	+02.4	305 51.5	+02.5	306 50.6	+02.5	21
22	317 56.5	+02.5	318 55.7	+02.5	319 54.8	+02.5	320 54.0	+02.4	321 53.1	+02.5	22
23	332 59.0	+02.5	333 58.2	+02.4	334 57.3	+02.5	335 56.4	+02.5	336 55.6	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.0
Ankaa	353 08.8	S 42 10.7
Schedir	349 32.7	N 56 39.6
Diphda	348 49.0	S 17 51.6
Achernar	335 21.2	S 57 07.1
Hamal	327 53.2	N 23 34.2
Polaris	314 44.8	N 89 21.3
Acamar	315 13.0	S 40 12.6
Menkar	314 08.0	N 04 10.8
Mirfak	308 30.8	N 49 56.3
Aldebaran	290 41.8	N 16 33.4
Capella	280 24.8	N 46 01.2
Rigel	281 05.7	S 08 10.4
Bellatrix	278 25.0	N 06 22.3
Elnath	278 04.4	N 28 37.6
Alnilam	275 39.7	S 01 11.1
Betelgeuze	270 54.3	N 07 24.8
Canopus	263 53.5	S 52 42.1
Sirius	258 27.9	S 16 44.1
Adhara	255 07.5	S 28 59.9
Castor	245 59.7	N 31 50.4
Procyon	244 52.8	N 05 10.5
Pollux	243 19.6	N 27 58.3
Avior	234 16.0	S 59 34.6
Suhail	222 48.1	S 43 31.2
Miaplacidus	221 39.3	S 69 48.4
Alphard	217 49.9	S 08 45.2
Regulus	207 36.7	N 11 51.6
Dubhe	193 43.9	N 61 37.9
Denebola	182 27.1	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 45.8	S 17 39.9
Acrux	173 02.9	S 63 13.5
Gacrux	171 54.4	S 57 14.3
Alioth	166 15.3	N 55 50.5
Spica	158 24.6	S 11 16.6
Alkaid	152 53.8	N 49 12.3
Hadar	148 39.2	S 60 29.0
Menkent	147 59.9	S 36 28.6
Arcturus	145 49.5	N 19 04.8
Rigel Kentaurus	139 40.7	S 60 56.0
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.3	N 74 04.0
Alphecca	126 05.5	N 26 38.6
Antares	112 18.4	S 26 28.9
Atria	107 14.2	S 69 04.3
Sabik	102 05.0	S 15 45.2
Shaula	96 12.9	S 37 07.3
Rasalhague	96 00.3	N 12 32.9
Etamin	90 42.9	N 51 29.4
Kaus Australis	83 34.9	S 34 22.4
Vega	80 34.4	N 38 48.4
Nunki	75 50.0	S 26 16.1
Albireo	67 05.4	N 28 00.6
Altair	62 01.8	N 08 55.7
Peacock	53 08.3	S 56 39.8
Deneb	49 26.7	N 45 21.8
Enif	33 40.4	N 09 58.8
Alnair	27 34.9	S 46 51.0
Formalhaut	15 16.4	S 29 30.0
Markab	13 31.5	N 15 19.7

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2022 - First Point of Aries / Selected Stars

UT	day 236 of 365 **August 24** GHA ° ′	ddGHA ′	day 237 of 365 **August 25** GHA ° ′	ddGHA ′	day 238 of 365 **August 26** GHA ° ′	ddGHA ′	day 239 of 365 **August 27** GHA ° ′	ddGHA ′	day 240 of 365 **August 28** GHA ° ′	ddGHA ′	UT
00	332 15.3	+02.4	333 14.4	+02.5	334 13.5	+02.5	335 12.7	+02.4	336 11.8	+02.5	00
01	347 17.7	+02.5	348 16.9	+02.4	349 16.0	+02.5	350 15.1	+02.5	351 14.3	+02.4	01
02	2 20.2	+02.5	3 19.3	+02.5	4 18.5	+02.4	5 17.6	+02.5	6 16.7	+02.5	02
03	17 22.7	+02.4	18 21.8	+02.5	19 20.9	+02.5	20 20.1	+02.4	21 19.2	+02.5	03
04	32 25.1	+02.5	33 24.3	+02.4	34 23.4	+02.5	35 22.5	+02.5	36 21.7	+02.4	04
05	47 27.6	+02.4	48 26.7	+02.5	49 25.9	+02.4	50 25.0	+02.5	51 24.1	+02.5	05
06	62 30.0	+02.5	63 29.2	+02.4	64 28.3	+02.5	65 27.5	+02.4	66 26.6	+02.5	06
07	77 32.5	+02.5	78 31.6	+02.5	79 30.8	+02.4	80 29.9	+02.5	81 29.1	+02.4	07
08	92 35.0	+02.4	93 34.1	+02.5	94 33.2	+02.5	95 32.4	+02.5	96 31.5	+02.5	08
09	107 37.4	+02.5	108 36.6	+02.4	109 35.7	+02.5	110 34.9	+02.4	111 34.0	+02.5	09
10	122 39.9	+02.5	123 39.0	+02.5	124 38.2	+02.4	125 37.3	+02.5	126 36.5	+02.4	10
11	137 42.4	+02.4	138 41.5	+02.5	139 40.6	+02.5	140 39.8	+02.4	141 38.9	+02.5	11
12	152 44.8	+02.5	153 44.0	+02.4	154 43.1	+02.5	155 42.2	+02.5	156 41.4	+02.4	12
13	167 47.3	+02.5	168 46.4	+02.5	169 45.6	+02.4	170 44.7	+02.5	171 43.8	+02.5	13
14	182 49.8	+02.4	183 48.9	+02.5	184 48.0	+02.5	185 47.2	+02.4	186 46.3	+02.5	14
15	197 52.2	+02.5	198 51.4	+02.4	199 50.5	+02.5	200 49.6	+02.5	201 48.8	+02.4	15
16	212 54.7	+02.4	213 53.8	+02.5	214 53.0	+02.4	215 52.1	+02.5	216 51.2	+02.5	16
17	227 57.1	+02.5	228 56.3	+02.5	229 55.4	+02.5	230 54.6	+02.4	231 53.7	+02.5	17
18	242 59.6	+02.5	243 58.8	+02.4	244 57.9	+02.5	245 57.0	+02.5	246 56.2	+02.4	18
19	258 02.1	+02.4	259 01.2	+02.5	260 00.4	+02.4	260 59.5	+02.5	261 58.6	+02.5	19
20	273 04.5	+02.5	274 03.7	+02.4	275 02.8	+02.5	276 02.0	+02.4	277 01.1	+02.5	20
21	288 07.0	+02.5	289 06.1	+02.5	290 05.3	+02.4	291 04.4	+02.5	292 03.6	+02.4	21
22	303 09.5	+02.4	304 08.6	+02.5	305 07.7	+02.5	306 06.9	+02.4	307 06.0	+02.5	22
23	318 11.9	+02.5	319 11.1	+02.4	320 10.2	+02.5	321 09.3	+02.5	322 08.5	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 12.9
Ankaa	353 08.8	S 42 10.7
Schedir	349 32.9	N 56 39.5
Diphda	348 49.1	S 17 51.6
Achernar	335 21.4	S 57 07.1
Hamal	327 53.3	N 23 34.2
Polaris	314 52.2	N 89 21.2
Acamar	315 13.1	S 40 12.6
Menkar	314 08.1	N 04 10.8
Mirfak	308 31.0	N 49 56.3
Aldebaran	290 41.9	N 16 33.3
Capella	280 25.0	N 46 01.2
Rigel	281 05.9	S 08 10.4
Bellatrix	278 25.1	N 06 22.3
Elnath	278 04.5	N 28 37.6
Alnilam	275 39.9	S 01 11.1
Betelgeuze	270 54.4	N 07 24.8
Canopus	263 53.6	S 52 42.1
Sirius	258 28.0	S 16 44.2
Adhara	255 07.6	S 28 59.9
Castor	245 59.8	N 31 50.4
Procyon	244 52.9	N 05 10.5
Pollux	243 19.7	N 27 58.4
Avior	234 16.1	S 59 34.7
Suhail	222 48.2	S 43 31.2
Miaplacidus	221 39.4	S 69 48.5
Alphard	217 50.0	S 08 45.2
Regulus	207 36.7	N 11 51.6
Dubhe	193 44.0	N 61 37.9
Denebola	182 27.1	N 14 27.0

	SHA ° ′	Dec ° ′
Gienah	175 45.8	S 17 39.9
Acrux	173 02.8	S 63 13.5
Gacrux	171 54.3	S 57 14.3
Alioth	166 15.2	N 55 50.5
Spica	158 24.5	S 11 16.6
Alkaid	152 53.8	N 49 12.4
Hadar	148 39.1	S 60 29.0
Menkent	147 59.8	S 36 28.6
Arcturus	145 49.5	N 19 04.9
Rigel Kentaurus	139 40.6	S 60 56.0
Zubenelgenubi	136 58.2	S 16 08.0
Kocab	137 20.1	N 74 04.1
Alphecca	126 05.5	N 26 38.6
Antares	112 18.3	S 26 28.9
Atria	107 14.0	S 69 04.3
Sabik	102 04.9	S 15 45.2
Shaula	96 12.8	S 37 07.3
Rasalhague	96 00.3	N 12 32.9
Etamin	90 42.8	N 51 29.4
Kaus Australis	83 34.9	S 34 22.4
Vega	80 34.4	N 38 48.4
Nunki	75 49.9	S 26 16.1
Albireo	67 05.3	N 28 00.6
Altair	62 01.8	N 08 55.6
Peacock	53 08.3	S 56 39.8
Deneb	49 26.7	N 45 21.7
Enif	33 40.4	N 09 58.8
Alnair	27 35.0	S 46 51.0
Formalhaut	15 16.4	S 29 30.0
Markab	13 31.5	N 15 19.7

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2022 - First Point of Aries / Selected Stars

UT	day 241 of 365 ***August 29*** GHA ° ′	ddGHA ′	day 242 of 365 ***August 30*** GHA ° ′	ddGHA ′	day 243 of 365 ***August 31*** GHA ° ′	ddGHA ′	day 244 of 365 ***September 1*** GHA ° ′	ddGHA ′	day 245 of 365 ***September 2*** GHA ° ′	ddGHA ′	UT
00	337 10.9	+02.5	338 10.1	+02.5	339 09.2	+02.5	340 08.4	+02.4	341 07.5	+02.5	00
01	352 13.4	+02.5	353 12.6	+02.4	354 11.7	+02.5	355 10.8	+02.5	356 10.0	+02.4	01
02	7 15.9	+02.4	8 15.0	+02.5	9 14.2	+02.4	10 13.3	+02.5	11 12.4	+02.5	02
03	22 18.3	+02.5	23 17.5	+02.4	24 16.6	+02.5	25 15.8	+02.4	26 14.9	+02.5	03
04	37 20.8	+02.5	38 19.9	+02.5	39 19.1	+02.4	40 18.2	+02.5	41 17.4	+02.4	04
05	52 23.3	+02.4	53 22.4	+02.5	54 21.5	+02.5	55 20.7	+02.4	56 19.8	+02.5	05
06	67 25.7	+02.5	68 24.9	+02.4	69 24.0	+02.5	70 23.1	+02.5	71 22.3	+02.4	06
07	82 28.2	+02.5	83 27.3	+02.5	84 26.5	+02.4	85 25.6	+02.5	86 24.7	+02.5	07
08	97 30.7	+02.4	98 29.8	+02.5	99 28.9	+02.5	100 28.1	+02.4	101 27.2	+02.5	08
09	112 33.1	+02.5	113 32.3	+02.4	114 31.4	+02.5	115 30.5	+02.5	116 29.7	+02.4	09
10	127 35.6	+02.5	128 34.7	+02.5	129 33.9	+02.4	130 33.0	+02.5	131 32.1	+02.5	10
11	142 38.1	+02.4	143 37.2	+02.5	144 36.3	+02.5	145 35.5	+02.4	146 34.6	+02.5	11
12	157 40.5	+02.5	158 39.7	+02.4	159 38.8	+02.5	160 37.9	+02.5	161 37.1	+02.4	12
13	172 43.0	+02.4	173 42.1	+02.5	174 41.3	+02.4	175 40.4	+02.5	176 39.5	+02.5	13
14	187 45.4	+02.5	188 44.6	+02.4	189 43.7	+02.5	190 42.9	+02.4	191 42.0	+02.5	14
15	202 47.9	+02.5	203 47.0	+02.5	204 46.2	+02.4	205 45.3	+02.5	206 44.5	+02.4	15
16	217 50.4	+02.4	218 49.5	+02.5	219 48.6	+02.5	220 47.8	+02.4	221 46.9	+02.5	16
17	232 52.8	+02.5	233 52.0	+02.4	234 51.1	+02.5	235 50.2	+02.5	236 49.4	+02.5	17
18	247 55.3	+02.5	248 54.4	+02.5	249 53.6	+02.4	250 52.7	+02.5	251 51.9	+02.4	18
19	262 57.8	+02.4	263 56.9	+02.5	264 56.0	+02.5	265 55.2	+02.4	266 54.3	+02.5	19
20	278 00.2	+02.5	278 59.4	+02.4	279 58.5	+02.5	280 57.6	+02.5	281 56.8	+02.4	20
21	293 02.7	+02.5	294 01.8	+02.5	295 01.0	+02.4	296 00.1	+02.5	296 59.2	+02.5	21
22	308 05.2	+02.4	309 04.3	+02.5	310 03.4	+02.5	311 02.6	+02.4	312 01.7	+02.5	22
23	323 07.6	+02.5	324 06.8	+02.4	325 05.9	+02.5	326 05.0	+02.5	327 04.2	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.0	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.8	S 42 10.7	*Acrux*	173 02.8	S 63 13.5
Schedir	349 32.8	N 56 39.5	*Gacrux*	171 54.3	S 57 14.3
Diphda	348 49.1	S 17 51.6	*Alioth*	166 15.2	N 55 50.5
Achernar	335 21.3	S 57 07.1	Spica	158 24.6	S 11 16.6
Hamal	327 53.3	N 23 34.2	*Alkaid*	152 53.8	N 49 12.3
Polaris	314 49.9	N 89 21.2	*Hadar*	148 39.1	S 60 29.0
Acamar	315 13.1	S 40 12.6	*Menkent*	147 59.8	S 36 28.6
Menkar	314 08.1	N 04 10.8	Arcturus	145 49.5	N 19 04.9
Mirfak	308 30.9	N 49 56.3	*Rigel Kentaurus*	139 40.6	S 60 56.0
Aldebaran	290 41.9	N 16 33.4	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 24.9	N 46 01.2	*Kocab*	137 20.2	N 74 04.1
Rigel	281 05.8	S 08 10.4	Alphecca	126 05.5	N 26 38.6
Bellatrix	278 25.1	N 06 22.3	Antares	112 18.3	S 26 28.9
Elnath	278 04.4	N 28 37.6	*Atria*	107 14.1	S 69 04.3
Alnilam	275 39.8	S 01 11.1	Sabik	102 04.9	S 15 45.2
Betelgeuze	270 54.3	N 07 24.8	*Shaula*	96 12.9	S 37 07.3
Canopus	263 53.5	S 52 42.1	Rasalhague	96 00.3	N 12 32.9
Sirius	258 28.0	S 16 44.2	*Etamin*	90 42.9	N 51 29.4
Adhara	255 07.6	S 28 59.9	*Kaus Australis*	83 34.9	S 34 22.4
Castor	245 59.8	N 31 50.4	*Vega*	80 34.4	N 38 48.4
Procyon	244 52.9	N 05 10.5	Nunki	75 49.9	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 05.4	N 28 00.6
Avior	234 16.1	S 59 34.7	Altair	62 01.8	N 08 55.7
Suhail	222 48.1	S 43 31.2	*Peacock*	53 08.3	S 56 39.8
Miaplacidus	221 39.4	S 69 48.4	*Deneb*	49 26.7	N 45 21.8
Alphard	217 50.0	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.0	S 46 51.0
Dubhe	193 43.9	N 61 37.9	Formalhaut	15 16.4	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.5	N 15 19.7

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2022 - First Point of Aries / Selected Stars

UT	day 246 of 365 ***September 3*** GHA ° ′	ddGHA ′	day 247 of 365 ***September 4*** GHA ° ′	ddGHA ′	day 248 of 365 ***September 5*** GHA ° ′	ddGHA ′	day 249 of 365 ***September 6*** GHA ° ′	ddGHA ′	day 250 of 365 ***September 7*** GHA ° ′	ddGHA ′	UT
00	342 06.6	+02.5	343 05.8	+02.4	344 04.9	+02.5	345 04.1	+02.4	346 03.2	+02.5	00
01	357 09.1	+02.5	358 08.2	+02.5	359 07.4	+02.4	0 06.5	+02.5	1 05.7	+02.4	01
02	12 11.6	+02.4	13 10.7	+02.5	14 09.8	+02.5	15 09.0	+02.5	16 08.1	+02.5	02
03	27 14.0	+02.5	28 13.2	+02.4	29 12.3	+02.5	30 11.5	+02.4	31 10.6	+02.5	03
04	42 16.5	+02.5	43 15.6	+02.5	44 14.8	+02.4	45 13.9	+02.5	46 13.1	+02.4	04
05	57 19.0	+02.4	58 18.1	+02.5	59 17.2	+02.5	60 16.4	+02.4	61 15.5	+02.5	05
06	72 21.4	+02.5	73 20.6	+02.4	74 19.7	+02.5	75 18.8	+02.5	76 18.0	+02.4	06
07	87 23.9	+02.5	88 23.0	+02.5	89 22.2	+02.4	90 21.3	+02.5	91 20.4	+02.5	07
08	102 26.4	+02.4	103 25.5	+02.5	104 24.6	+02.5	105 23.8	+02.4	106 22.9	+02.5	08
09	117 28.8	+02.5	118 28.0	+02.4	119 27.1	+02.5	120 26.2	+02.5	121 25.4	+02.4	09
10	132 31.3	+02.4	133 30.4	+02.5	134 29.6	+02.4	135 28.7	+02.5	136 27.8	+02.5	10
11	147 33.7	+02.5	148 32.9	+02.4	149 32.0	+02.5	150 31.2	+02.4	151 30.3	+02.5	11
12	162 36.2	+02.5	163 35.3	+02.5	164 34.5	+02.5	165 33.6	+02.5	166 32.8	+02.4	12
13	177 38.7	+02.4	178 37.8	+02.5	179 37.0	+02.4	180 36.1	+02.5	181 35.2	+02.5	13
14	192 41.1	+02.5	193 40.3	+02.4	194 39.4	+02.5	195 38.6	+02.4	196 37.7	+02.5	14
15	207 43.6	+02.5	208 42.7	+02.5	209 41.9	+02.4	210 41.0	+02.5	211 40.2	+02.4	15
16	222 46.1	+02.4	223 45.2	+02.5	224 44.3	+02.5	225 43.5	+02.4	226 42.6	+02.5	16
17	237 48.5	+02.5	238 47.7	+02.4	239 46.8	+02.5	240 45.9	+02.5	241 45.1	+02.5	17
18	252 51.0	+02.5	253 50.1	+02.5	254 49.3	+02.4	255 48.4	+02.5	256 47.6	+02.4	18
19	267 53.5	+02.4	268 52.6	+02.5	269 51.7	+02.5	270 50.9	+02.4	271 50.0	+02.5	19
20	282 55.9	+02.5	283 55.1	+02.4	284 54.2	+02.5	285 53.3	+02.5	286 52.5	+02.4	20
21	297 58.4	+02.4	298 57.5	+02.5	299 56.7	+02.4	300 55.8	+02.5	301 54.9	+02.5	21
22	313 00.8	+02.5	313 60.0	+02.5	314 59.1	+02.5	315 58.3	+02.4	316 57.4	+02.5	22
23	328 03.3	+02.5	329 02.5	+02.4	330 01.6	+02.5	331 00.7	+02.5	331 59.9	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.0	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.8	S 42 10.7	*Acrux*	173 02.9	S 63 13.5
Schedir	349 32.8	N 56 39.6	*Gacrux*	171 54.4	S 57 14.3
Diphda	348 49.0	S 17 51.6	*Alioth*	166 15.3	N 55 50.5
Achernar	335 21.3	S 57 07.1	Spica	158 24.6	S 11 16.6
Hamal	327 53.2	N 23 34.2	*Alkaid*	152 53.8	N 49 12.3
Polaris	314 47.4	N 89 21.3	*Hadar*	148 39.1	S 60 29.0
Acamar	315 13.1	S 40 12.6	*Menkent*	147 59.9	S 36 28.6
Menkar	314 08.1	N 04 10.8	Arcturus	145 49.5	N 19 04.9
Mirfak	308 30.9	N 49 56.3	*Rigel Kentaurus*	139 40.7	S 60 56.0
Aldebaran	290 41.9	N 16 33.4	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 24.9	N 46 01.2	*Kocab*	137 20.3	N 74 04.1
Rigel	281 05.8	S 08 10.4	Alphecca	126 05.5	N 26 38.6
Bellatrix	278 25.0	N 06 22.3	Antares	112 18.3	S 26 28.9
Elnath	278 04.4	N 28 37.6	*Atria*	107 14.2	S 69 04.3
Alnilam	275 39.8	S 01 11.1	Sabik	102 05.0	S 15 45.2
Betelgeuze	270 54.3	N 07 24.8	*Shaula*	96 12.9	S 37 07.3
Canopus	263 53.5	S 52 42.1	Rasalhague	96 00.3	N 12 32.9
Sirius	258 27.9	S 16 44.1	*Etamin*	90 42.9	N 51 29.4
Adhara	255 07.6	S 28 59.9	*Kaus Australis*	83 34.9	S 34 22.4
Castor	245 59.7	N 31 50.4	*Vega*	80 34.4	N 38 48.4
Procyon	244 52.9	N 05 10.5	Nunki	75 50.0	S 26 16.1
Pollux	243 19.6	N 27 58.4	Albireo	67 05.4	N 28 00.6
Avior	234 16.0	S 59 34.6	Altair	62 01.8	N 08 55.7
Suhail	222 48.1	S 43 31.2	*Peacock*	53 08.3	S 56 39.8
Miaplacidus	221 39.3	S 69 48.4	*Deneb*	49 26.7	N 45 21.8
Alphard	217 50.0	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.0	S 46 51.0
Dubhe	193 43.9	N 61 37.9	Formalhaut	15 16.4	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.5	N 15 19.7

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2022 - First Point of Aries / Selected Stars

UT	day 271 of 365 **September 28** GHA ° ′	ddGHA ′	day 272 of 365 **September 29** GHA ° ′	ddGHA ′	day 273 of 365 **September 30** GHA ° ′	ddGHA ′	day 274 of 365 **October 1** GHA ° ′	ddGHA ′	day 275 of 365 **October 2** GHA ° ′	ddGHA ′	UT
00	6 45.1	+02.5	7 44.2	+02.5	8 43.4	+02.4	9 42.5	+02.5	10 41.7	+02.4	00
01	21 47.6	+02.4	22 46.7	+02.5	23 45.8	+02.5	24 45.0	+02.4	25 44.1	+02.5	01
02	36 50.0	+02.5	37 49.2	+02.4	38 48.3	+02.5	39 47.4	+02.5	40 46.6	+02.4	02
03	51 52.5	+02.5	52 51.6	+02.5	53 50.8	+02.4	54 49.9	+02.5	55 49.0	+02.5	03
04	66 55.0	+02.4	67 54.1	+02.5	68 53.2	+02.5	69 52.4	+02.4	70 51.5	+02.5	04
05	81 57.4	+02.5	82 56.6	+02.4	83 55.7	+02.5	84 54.8	+02.5	85 54.0	+02.4	05
06	96 59.9	+02.4	97 59.0	+02.5	98 58.2	+02.4	99 57.3	+02.5	100 56.4	+02.5	06
07	112 02.3	+02.5	113 01.5	+02.4	114 00.6	+02.5	114 59.8	+02.4	115 58.9	+02.5	07
08	127 04.8	+02.5	128 03.9	+02.5	129 03.1	+02.5	130 02.2	+02.5	131 01.4	+02.4	08
09	142 07.3	+02.4	143 06.4	+02.5	144 05.6	+02.4	145 04.7	+02.5	146 03.8	+02.5	09
10	157 09.7	+02.5	158 08.9	+02.4	159 08.0	+02.5	160 07.2	+02.4	161 06.3	+02.5	10
11	172 12.2	+02.5	173 11.3	+02.5	174 10.5	+02.4	175 09.6	+02.5	176 08.8	+02.4	11
12	187 14.7	+02.4	188 13.8	+02.5	189 12.9	+02.5	190 12.1	+02.4	191 11.2	+02.5	12
13	202 17.1	+02.5	203 16.3	+02.4	204 15.4	+02.5	205 14.5	+02.5	206 13.7	+02.5	13
14	217 19.6	+02.5	218 18.7	+02.5	219 17.9	+02.4	220 17.0	+02.5	221 16.2	+02.4	14
15	232 22.1	+02.4	233 21.2	+02.5	234 20.3	+02.5	235 19.5	+02.4	236 18.6	+02.5	15
16	247 24.5	+02.5	248 23.7	+02.4	249 22.8	+02.5	250 21.9	+02.5	251 21.1	+02.4	16
17	262 27.0	+02.4	263 26.1	+02.5	264 25.3	+02.4	265 24.4	+02.5	266 23.5	+02.5	17
18	277 29.4	+02.5	278 28.6	+02.5	279 27.7	+02.5	280 26.9	+02.4	281 26.0	+02.5	18
19	292 31.9	+02.5	293 31.1	+02.4	294 30.2	+02.5	295 29.3	+02.5	296 28.5	+02.4	19
20	307 34.4	+02.4	308 33.5	+02.5	309 32.7	+02.4	310 31.8	+02.5	311 30.9	+02.5	20
21	322 36.8	+02.5	323 36.0	+02.4	324 35.1	+02.5	325 34.3	+02.4	326 33.4	+02.5	21
22	337 39.3	+02.5	338 38.4	+02.5	339 37.6	+02.4	340 36.7	+02.5	341 35.9	+02.4	22
23	352 41.8	+02.4	353 40.9	+02.5	354 40.0	+02.5	355 39.2	+02.5	356 38.3	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.7	S 42 10.8	*Acrux*	173 02.9	S 63 13.4
Schedir	349 32.7	N 56 39.7	*Gacrux*	171 54.4	S 57 14.2
Diphda	348 49.0	S 17 51.7	*Alioth*	166 15.3	N 55 50.4
Achernar	335 21.1	S 57 07.2	Spica	158 24.6	S 11 16.6
Hamal	327 53.1	N 23 34.3	*Alkaid*	152 53.9	N 49 12.2
Polaris	314 36.6	N 89 21.4	*Hadar*	148 39.3	S 60 28.9
Acamar	315 12.9	S 40 12.6	*Menkent*	147 59.9	S 36 28.5
Menkar	314 07.9	N 04 10.8	Arcturus	145 49.6	N 19 04.8
Mirfak	308 30.6	N 49 56.4	*Rigel Kentaurus*	139 40.8	S 60 55.9
Aldebaran	290 41.7	N 16 33.4	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 24.6	N 46 01.3	*Kocab*	137 20.6	N 74 03.9
Rigel	281 05.6	S 08 10.3	Alphecca	126 05.6	N 26 38.6
Bellatrix	278 24.8	N 06 22.3	Antares	112 18.4	S 26 28.9
Elnath	278 04.2	N 28 37.6	*Atria*	107 14.5	S 69 04.3
Alnilam	275 39.6	S 01 11.1	Sabik	102 05.1	S 15 45.2
Betelgeuze	270 54.1	N 07 24.8	*Shaula*	96 13.0	S 37 07.3
Canopus	263 53.3	S 52 42.1	Rasalhague	96 00.4	N 12 32.9
Sirius	258 27.8	S 16 44.1	*Etamin*	90 43.1	N 51 29.4
Adhara	255 07.4	S 28 59.8	*Kaus Australis*	83 35.0	S 34 22.4
Castor	245 59.5	N 31 50.3	*Vega*	80 34.6	N 38 48.4
Procyon	244 52.7	N 05 10.5	Nunki	75 50.1	S 26 16.1
Pollux	243 19.4	N 27 58.3	Albireo	67 05.5	N 28 00.6
Avior	234 15.8	S 59 34.6	Altair	62 01.9	N 08 55.7
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Regulus	207 36.6	N 11 51.5	*Alnair*	27 35.0	S 46 51.1
Dubhe	193 43.9	N 61 37.8	Formalhaut	15 16.4	S 29 30.1
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UT	day 256 of 365 **September 13** GHA ° ′	ddGHA ′	day 257 of 365 **September 14** GHA ° ′	ddGHA ′	day 258 of 365 **September 15** GHA ° ′	ddGHA ′	day 259 of 365 **September 16** GHA ° ′	ddGHA ′	day 260 of 365 **September 17** GHA ° ′	ddGHA ′	UT
00	351 58.0	+02.5	352 57.2	+02.4	353 56.3	+02.5	354 55.4	+02.5	355 54.6	+02.4	00
01	7 00.5	+02.5	7 59.6	+02.5	8 58.8	+02.4	9 57.9	+02.5	10 57.0	+02.5	01
02	22 03.0	+02.4	23 02.1	+02.5	24 01.2	+02.5	25 00.4	+02.4	25 59.5	+02.5	02
03	37 05.4	+02.5	38 04.6	+02.4	39 03.7	+02.5	40 02.8	+02.5	41 02.0	+02.4	03
04	52 07.9	+02.4	53 07.0	+02.5	54 06.2	+02.4	55 05.3	+02.5	56 04.4	+02.5	04
05	67 10.3	+02.5	68 09.5	+02.4	69 08.6	+02.5	70 07.8	+02.4	71 06.9	+02.5	05
06	82 12.8	+02.5	83 11.9	+02.5	84 11.1	+02.4	85 10.2	+02.5	86 09.4	+02.4	06
07	97 15.3	+02.4	98 14.4	+02.5	99 13.5	+02.5	100 12.7	+02.5	101 11.8	+02.5	07
08	112 17.7	+02.5	113 16.9	+02.4	114 16.0	+02.5	115 15.2	+02.4	116 14.3	+02.5	08
09	127 20.2	+02.5	128 19.3	+02.5	129 18.5	+02.4	130 17.6	+02.5	131 16.8	+02.4	09
10	142 22.7	+02.4	143 21.8	+02.5	144 20.9	+02.5	145 20.1	+02.4	146 19.2	+02.5	10
11	157 25.1	+02.5	158 24.3	+02.4	159 23.4	+02.5	160 22.5	+02.5	161 21.7	+02.4	11
12	172 27.6	+02.5	173 26.7	+02.5	174 25.9	+02.4	175 25.0	+02.5	176 24.1	+02.5	12
13	187 30.1	+02.4	188 29.2	+02.5	189 28.3	+02.5	190 27.5	+02.4	191 26.6	+02.5	13
14	202 32.5	+02.5	203 31.7	+02.4	204 30.8	+02.5	205 29.9	+02.5	206 29.1	+02.4	14
15	217 35.0	+02.4	218 34.1	+02.5	219 33.3	+02.4	220 32.4	+02.5	221 31.5	+02.5	15
16	232 37.4	+02.5	233 36.6	+02.5	234 35.7	+02.5	235 34.9	+02.4	236 34.0	+02.5	16
17	247 39.9	+02.5	248 39.1	+02.4	249 38.2	+02.5	250 37.3	+02.5	251 36.5	+02.4	17
18	262 42.4	+02.4	263 41.5	+02.5	264 40.7	+02.4	265 39.8	+02.5	266 38.9	+02.5	18
19	277 44.8	+02.5	278 44.0	+02.4	279 43.1	+02.5	280 42.3	+02.4	281 41.4	+02.5	19
20	292 47.3	+02.5	293 46.4	+02.5	294 45.6	+02.4	295 44.7	+02.5	296 43.9	+02.4	20
21	307 49.8	+02.4	308 48.9	+02.5	309 48.0	+02.5	310 47.2	+02.4	311 46.3	+02.5	21
22	322 52.2	+02.5	323 51.4	+02.4	324 50.5	+02.5	325 49.6	+02.5	326 48.8	+02.5	22
23	337 54.7	+02.5	338 53.8	+02.5	339 53.0	+02.4	340 52.1	+02.5	341 51.3	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.0	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.7	S 42 10.7	*Acrux*	173 02.9	S 63 13.4
Schedir	349 32.7	N 56 39.6	*Gacrux*	171 54.4	S 57 14.3
Diphda	348 49.0	S 17 51.6	*Alioth*	166 15.3	N 55 50.4
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Rigel	281 05.7	S 08 10.3	Alphecca	126 05.6	N 26 38.6
Bellatrix	278 24.9	N 06 22.3	Antares	112 18.4	S 26 28.9
Elnath	278 04.3	N 28 37.6	*Atria*	107 14.3	S 69 04.3
Alnilam	275 39.7	S 01 11.1	Sabik	102 05.0	S 15 45.2
Betelgeuze	270 54.2	N 07 24.8	*Shaula*	96 12.9	S 37 07.3
Canopus	263 53.4	S 52 42.1	Rasalhague	96 00.3	N 12 32.9
Sirius	258 27.9	S 16 44.1	*Etamin*	90 43.0	N 51 29.4
Adhara	255 07.5	S 28 59.9	*Kaus Australis*	83 34.9	S 34 22.4
Castor	245 59.7	N 31 50.4	*Vega*	80 34.5	N 38 48.4
Procyon	244 52.8	N 05 10.5	Nunki	75 50.0	S 26 16.1
Pollux	243 19.5	N 27 58.3	Albireo	67 05.4	N 28 00.6
Avior	234 16.0	S 59 34.6	Altair	62 01.8	N 08 55.7
Suhail	222 48.1	S 43 31.2	*Peacock*	53 08.3	S 56 39.8
Miaplacidus	221 39.3	S 69 48.4	*Deneb*	49 26.8	N 45 21.8
Alphard	217 49.9	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.7	N 11 51.6	*Alnair*	27 34.9	S 46 51.1
Dubhe	193 43.9	N 61 37.8	Formalhaut	15 16.4	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.5	N 15 19.7

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2022 - First Point of Aries / Selected Stars

UT	day 261 of 365 **September 18** GHA ° ′	ddGHA ′	day 262 of 365 **September 19** GHA ° ′	ddGHA ′	day 263 of 365 **September 20** GHA ° ′	ddGHA ′	day 264 of 365 **September 21** GHA ° ′	ddGHA ′	day 265 of 365 **September 22** GHA ° ′	ddGHA ′	UT
00	356 53.7	+02.5	357 52.9	+02.4	358 52.0	+02.5	359 51.1	+02.5	0 50.3	+02.4	00
01	11 56.2	+02.4	12 55.3	+02.5	13 54.5	+02.4	14 53.6	+02.5	15 52.7	+02.5	01
02	26 58.6	+02.5	27 57.8	+02.4	28 56.9	+02.5	29 56.1	+02.4	30 55.2	+02.5	02
03	42 01.1	+02.5	43 00.2	+02.5	43 59.4	+02.5	44 58.5	+02.5	45 57.7	+02.4	03
04	57 03.6	+02.4	58 02.7	+02.5	59 01.9	+02.4	60 01.0	+02.5	61 00.1	+02.5	04
05	72 06.0	+02.5	73 05.2	+02.4	74 04.3	+02.5	75 03.5	+02.4	76 02.6	+02.5	05
06	87 08.5	+02.5	88 07.6	+02.5	89 06.8	+02.4	90 05.9	+02.5	91 05.1	+02.4	06
07	102 11.0	+02.4	103 10.1	+02.5	104 09.2	+02.5	105 08.4	+02.4	106 07.5	+02.5	07
08	117 13.4	+02.5	118 12.6	+02.4	119 11.7	+02.5	120 10.8	+02.5	121 10.0	+02.5	08
09	132 15.9	+02.5	133 15.0	+02.5	134 14.2	+02.4	135 13.3	+02.5	136 12.5	+02.4	09
10	147 18.4	+02.4	148 17.5	+02.5	149 16.6	+02.5	150 15.8	+02.4	151 14.9	+02.5	10
11	162 20.8	+02.5	163 20.0	+02.4	164 19.1	+02.5	165 18.2	+02.5	166 17.4	+02.4	11
12	177 23.3	+02.5	178 22.4	+02.5	179 21.6	+02.4	180 20.7	+02.5	181 19.8	+02.5	12
13	192 25.8	+02.4	193 24.9	+02.5	194 24.0	+02.5	195 23.2	+02.4	196 22.3	+02.5	13
14	207 28.2	+02.5	208 27.4	+02.4	209 26.5	+02.5	210 25.6	+02.5	211 24.8	+02.4	14
15	222 30.7	+02.4	223 29.8	+02.5	224 29.0	+02.4	225 28.1	+02.5	226 27.2	+02.5	15
16	237 33.1	+02.5	238 32.3	+02.4	239 31.4	+02.5	240 30.6	+02.4	241 29.7	+02.5	16
17	252 35.6	+02.5	253 34.7	+02.5	254 33.9	+02.5	255 33.0	+02.5	256 32.2	+02.4	17
18	267 38.1	+02.4	268 37.2	+02.5	269 36.4	+02.4	270 35.5	+02.5	271 34.6	+02.5	18
19	282 40.5	+02.5	283 39.7	+02.4	284 38.8	+02.5	285 38.0	+02.4	286 37.1	+02.5	19
20	297 43.0	+02.5	298 42.1	+02.5	299 41.3	+02.4	300 40.4	+02.5	301 39.6	+02.4	20
21	312 45.5	+02.4	313 44.6	+02.5	314 43.7	+02.5	315 42.9	+02.4	316 42.0	+02.5	21
22	327 47.9	+02.5	328 47.1	+02.4	329 46.2	+02.5	330 45.3	+02.5	331 44.5	+02.4	22
23	342 50.4	+02.5	343 49.5	+02.5	344 48.7	+02.4	345 47.8	+02.5	346 46.9	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.0	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.7	S 42 10.8	*Acrux*	173 02.9	S 63 13.4
Schedir	349 32.7	N 56 39.7	*Gacrux*	171 54.4	S 57 14.2
Diphda	348 49.0	S 17 51.7	*Alioth*	166 15.3	N 55 50.4
Achernar	335 21.2	S 57 07.1	Spica	158 24.6	S 11 16.6
Hamal	327 53.2	N 23 34.2	*Alkaid*	152 53.9	N 49 12.3
Polaris	314 40.4	N 89 21.3	*Hadar*	148 39.2	S 60 29.0
Acamar	315 12.9	S 40 12.6	*Menkent*	147 59.9	S 36 28.6
Menkar	314 07.9	N 04 10.8	Arcturus	145 49.5	N 19 04.8
Mirfak	308 30.7	N 49 56.3	*Rigel Kentaurus*	139 40.8	S 60 56.0
Aldebaran	290 41.7	N 16 33.4	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 24.7	N 46 01.2	*Kocab*	137 20.5	N 74 04.0
Rigel	281 05.7	S 08 10.3	Alphecca	126 05.6	N 26 38.6
Bellatrix	278 24.9	N 06 22.3	Antares	112 18.4	S 26 28.9
Elnath	278 04.3	N 28 37.6	*Atria*	107 14.3	S 69 04.3
Alnilam	275 39.7	S 01 11.1	Sabik	102 05.0	S 15 45.2
Betelgeuze	270 54.2	N 07 24.8	*Shaula*	96 13.0	S 37 07.3
Canopus	263 53.4	S 52 42.1	Rasalhague	96 00.4	N 12 32.9
Sirius	258 27.8	S 16 44.1	*Etamin*	90 43.0	N 51 29.4
Adhara	255 07.5	S 28 59.9	*Kaus Australis*	83 35.0	S 34 22.4
Castor	245 59.6	N 31 50.3	*Vega*	80 34.5	N 38 48.4
Procyon	244 52.8	N 05 10.5	Nunki	75 50.0	S 26 16.1
Pollux	243 19.5	N 27 58.3	Albireo	67 05.4	N 28 00.6
Avior	234 15.9	S 59 34.6	Altair	62 01.8	N 08 55.7
Suhail	222 48.0	S 43 31.1	*Peacock*	53 08.4	S 56 39.8
Miaplacidus	221 39.2	S 69 48.3	*Deneb*	49 26.8	N 45 21.9
Alphard	217 49.9	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.7	N 11 51.6	*Alnair*	27 35.0	S 46 51.1
Dubhe	193 43.9	N 61 37.8	Formalhaut	15 16.4	S 29 30.0
Denebola	182 27.1	N 14 27.0	Markab	13 31.5	N 15 19.7

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UT	day 266 of 365 **September 23** GHA ° ′	ddGHA ′	day 267 of 365 **September 24** GHA ° ′	ddGHA ′	day 268 of 365 **September 25** GHA ° ′	ddGHA ′	day 269 of 365 **September 26** GHA ° ′	ddGHA ′	day 270 of 365 **September 27** GHA ° ′	ddGHA ′	UT
00	1 49.4	+02.5	2 48.5	+02.5	3 47.7	+02.5	4 46.8	+02.5	5 46.0	+02.4	00
01	16 51.9	+02.4	17 51.0	+02.5	18 50.2	+02.4	19 49.3	+02.5	20 48.4	+02.5	01
02	31 54.3	+02.5	32 53.5	+02.4	33 52.6	+02.5	34 51.8	+02.4	35 50.9	+02.5	02
03	46 56.8	+02.5	47 55.9	+02.5	48 55.1	+02.4	49 54.2	+02.5	50 53.4	+02.4	03
04	61 59.3	+02.4	62 58.4	+02.5	63 57.5	+02.5	64 56.7	+02.4	65 55.8	+02.5	04
05	77 01.7	+02.5	78 00.9	+02.4	79 00.0	+02.5	79 59.1	+02.5	80 58.3	+02.4	05
06	92 04.2	+02.5	93 03.3	+02.5	94 02.5	+02.4	95 01.6	+02.5	96 00.7	+02.5	06
07	107 06.7	+02.4	108 05.8	+02.5	109 04.9	+02.5	110 04.1	+02.4	111 03.2	+02.5	07
08	122 09.1	+02.5	123 08.3	+02.4	124 07.4	+02.5	125 06.5	+02.5	126 05.7	+02.4	08
09	137 11.6	+02.5	138 10.7	+02.5	139 09.9	+02.4	140 09.0	+02.5	141 08.1	+02.5	09
10	152 14.1	+02.4	153 13.2	+02.5	154 12.3	+02.5	155 11.5	+02.4	156 10.6	+02.5	10
11	167 16.5	+02.5	168 15.7	+02.4	169 14.8	+02.5	170 13.9	+02.5	171 13.1	+02.4	11
12	182 19.0	+02.4	183 18.1	+02.5	184 17.3	+02.4	185 16.4	+02.5	186 15.5	+02.5	12
13	197 21.4	+02.5	198 20.6	+02.4	199 19.7	+02.5	200 18.9	+02.4	201 18.0	+02.5	13
14	212 23.9	+02.5	213 23.0	+02.5	214 22.2	+02.4	215 21.3	+02.5	216 20.5	+02.4	14
15	227 26.4	+02.4	228 25.5	+02.5	229 24.6	+02.5	230 23.8	+02.4	231 22.9	+02.5	15
16	242 28.8	+02.5	243 28.0	+02.4	244 27.1	+02.5	245 26.2	+02.5	246 25.4	+02.4	16
17	257 31.3	+02.5	258 30.4	+02.5	259 29.6	+02.4	260 28.7	+02.5	261 27.8	+02.5	17
18	272 33.8	+02.4	273 32.9	+02.5	274 32.0	+02.5	275 31.2	+02.4	276 30.3	+02.5	18
19	287 36.2	+02.5	288 35.4	+02.4	289 34.5	+02.5	290 33.6	+02.5	291 32.8	+02.4	19
20	302 38.7	+02.5	303 37.8	+02.5	304 37.0	+02.4	305 36.1	+02.5	306 35.2	+02.5	20
21	317 41.2	+02.4	318 40.3	+02.5	319 39.4	+02.5	320 38.6	+02.4	321 37.7	+02.5	21
22	332 43.6	+02.5	333 42.8	+02.4	334 41.9	+02.5	335 41.0	+02.5	336 40.2	+02.4	22
23	347 46.1	+02.4	348 45.2	+02.5	349 44.4	+02.4	350 43.5	+02.5	351 42.6	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.7	S 42 10.8	*Acrux*	173 02.9	S 63 13.4
Schedir	349 32.7	N 56 39.7	*Gacrux*	171 54.4	S 57 14.2
Diphda	348 49.0	S 17 51.7	*Alioth*	166 15.3	N 55 50.4
Achernar	335 21.1	S 57 07.1	Spica	158 24.6	S 11 16.6
Hamal	327 53.1	N 23 34.2	*Alkaid*	152 53.9	N 49 12.2
Polaris	314 38.3	N 89 21.3	*Hadar*	148 39.2	S 60 28.9
Acamar	315 12.9	S 40 12.6	*Menkent*	147 59.9	S 36 28.6
Menkar	314 07.9	N 04 10.8	Arcturus	145 49.6	N 19 04.8
Mirfak	308 30.7	N 49 56.4	*Rigel Kentaurus*	139 40.8	S 60 56.0
Aldebaran	290 41.7	N 16 33.4	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 24.7	N 46 01.3	*Kocab*	137 20.6	N 74 04.0
Rigel	281 05.6	S 08 10.3	Alphecca	126 05.6	N 26 38.6
Bellatrix	278 24.9	N 06 22.3	Antares	112 18.4	S 26 28.9
Elnath	278 04.2	N 28 37.6	*Atria*	107 14.4	S 69 04.3
Alnilam	275 39.6	S 01 11.1	Sabik	102 05.0	S 15 45.2
Betelgeuze	270 54.1	N 07 24.8	*Shaula*	96 13.0	S 37 07.3
Canopus	263 53.3	S 52 42.1	Rasalhague	96 00.4	N 12 32.9
Sirius	258 27.8	S 16 44.1	*Etamin*	90 43.1	N 51 29.4
Adhara	255 07.4	S 28 59.9	*Kaus Australis*	83 35.0	S 34 22.4
Castor	245 59.6	N 31 50.3	*Vega*	80 34.5	N 38 48.4
Procyon	244 52.7	N 05 10.5	Nunki	75 50.0	S 26 16.1
Pollux	243 19.4	N 27 58.3	Albireo	67 05.5	N 28 00.6
Avior	234 15.9	S 59 34.6	Altair	62 01.8	N 08 55.7
Suhail	222 48.0	S 43 31.1	*Peacock*	53 08.4	S 56 39.9
Miaplacidus	221 39.2	S 69 48.3	*Deneb*	49 26.8	N 45 21.9
Alphard	217 49.9	S 08 45.2	Enif	33 40.4	N 09 58.8
Regulus	207 36.6	N 11 51.5	*Alnair*	27 35.0	S 46 51.1
Dubhe	193 43.9	N 61 37.8	Formalhaut	15 16.4	S 29 30.1
Denebola	182 27.0	N 14 27.0	Markab	13 31.5	N 15 19.7

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UT	day 291 of 365 **October 18** GHA ° ′	ddGHA ′	day 292 of 365 **October 19** GHA ° ′	ddGHA ′	day 293 of 365 **October 20** GHA ° ′	ddGHA ′	day 294 of 365 **October 21** GHA ° ′	ddGHA ′	day 295 of 365 **October 22** GHA ° ′	ddGHA ′	UT
00	26 27.9	+02.4	27 27.0	+02.5	28 26.1	+02.5	29 25.3	+02.5	30 24.4	+02.5	00
01	41 30.3	+02.5	42 29.5	+02.4	43 28.6	+02.5	44 27.8	+02.4	45 26.9	+02.5	01
02	56 32.8	+02.5	57 31.9	+02.5	58 31.1	+02.4	59 30.2	+02.5	60 29.4	+02.4	02
03	71 35.3	+02.4	72 34.4	+02.5	73 33.5	+02.5	74 32.7	+02.4	75 31.8	+02.5	03
04	86 37.7	+02.5	87 36.9	+02.4	88 36.0	+02.5	89 35.1	+02.5	90 34.3	+02.4	04
05	101 40.2	+02.5	102 39.3	+02.5	103 38.5	+02.4	104 37.6	+02.5	105 36.7	+02.5	05
06	116 42.7	+02.4	117 41.8	+02.5	118 40.9	+02.5	119 40.1	+02.4	120 39.2	+02.5	06
07	131 45.1	+02.5	132 44.3	+02.4	133 43.4	+02.5	134 42.5	+02.5	135 41.7	+02.4	07
08	146 47.6	+02.4	147 46.7	+02.5	148 45.9	+02.4	149 45.0	+02.5	150 44.1	+02.5	08
09	161 50.0	+02.5	162 49.2	+02.5	163 48.3	+02.5	164 47.5	+02.4	165 46.6	+02.5	09
10	176 52.5	+02.5	177 51.7	+02.4	178 50.8	+02.5	179 49.9	+02.5	180 49.1	+02.4	10
11	191 55.0	+02.4	192 54.1	+02.5	193 53.3	+02.4	194 52.4	+02.5	195 51.5	+02.5	11
12	206 57.4	+02.5	207 56.6	+02.4	208 55.7	+02.5	209 54.9	+02.4	210 54.0	+02.5	12
13	221 59.9	+02.5	222 59.0	+02.5	223 58.2	+02.4	224 57.3	+02.5	225 56.5	+02.4	13
14	237 02.4	+02.4	238 01.5	+02.5	239 00.6	+02.5	239 59.8	+02.4	240 58.9	+02.5	14
15	252 04.8	+02.5	253 04.0	+02.4	254 03.1	+02.5	255 02.2	+02.5	256 01.4	+02.4	15
16	267 07.3	+02.5	268 06.4	+02.5	269 05.6	+02.4	270 04.7	+02.5	271 03.8	+02.5	16
17	282 09.8	+02.4	283 08.9	+02.5	284 08.0	+02.5	285 07.2	+02.4	286 06.3	+02.5	17
18	297 12.2	+02.5	298 11.4	+02.4	299 10.5	+02.5	300 09.6	+02.5	301 08.8	+02.4	18
19	312 14.7	+02.5	313 13.8	+02.5	314 13.0	+02.4	315 12.1	+02.5	316 11.2	+02.5	19
20	327 17.2	+02.4	328 16.3	+02.5	329 15.4	+02.5	330 14.6	+02.4	331 13.7	+02.5	20
21	342 19.6	+02.5	343 18.8	+02.4	344 17.9	+02.5	345 17.0	+02.5	346 16.2	+02.4	21
22	357 22.1	+02.4	358 21.2	+02.5	359 20.4	+02.4	0 19.5	+02.5	1 18.6	+02.5	22
23	12 24.5	+02.5	13 23.7	+02.4	14 22.8	+02.5	15 22.0	+02.4	16 21.1	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1
Ankaa	353 08.7	S 42 10.9
Schedir	349 32.6	N 56 39.8
Diphda	348 48.9	S 17 51.7
Achernar	335 21.1	S 57 07.3
Hamal	327 53.0	N 23 34.3
Polaris	314 29.7	N 89 21.5
Acamar	315 12.8	S 40 12.7
Menkar	314 07.8	N 04 10.8
Mirfak	308 30.5	N 49 56.4
Aldebaran	290 41.5	N 16 33.4
Capella	280 24.4	N 46 01.3
Rigel	281 05.5	S 08 10.4
Bellatrix	278 24.7	N 06 22.3
Elnath	278 04.0	N 28 37.6
Alnilam	275 39.5	S 01 11.1
Betelgeuze	270 54.0	N 07 24.8
Canopus	263 53.0	S 52 42.1
Sirius	258 27.6	S 16 44.1
Adhara	255 07.2	S 28 59.9
Castor	245 59.3	N 31 50.3
Procyon	244 52.5	N 05 10.5
Pollux	243 19.2	N 27 58.3
Avior	234 15.6	S 59 34.5
Suhail	222 47.8	S 43 31.1
Miaplacidus	221 38.8	S 69 48.3
Alphard	217 49.7	S 08 45.2
Regulus	207 36.5	N 11 51.5
Dubhe	193 43.7	N 61 37.6
Denebola	182 27.0	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.8	S 17 39.9
Acrux	173 02.8	S 63 13.3
Gacrux	171 54.3	S 57 14.1
Alioth	166 15.3	N 55 50.3
Spica	158 24.6	S 11 16.6
Alkaid	152 53.9	N 49 12.1
Hadar	148 39.3	S 60 28.8
Menkent	147 59.9	S 36 28.5
Arcturus	145 49.6	N 19 04.8
Rigel Kentaurus	139 40.9	S 60 55.9
Zubenelgenubi	136 58.4	S 16 08.0
Kocab	137 20.9	N 74 03.8
Alphecca	126 05.7	N 26 38.5
Antares	112 18.5	S 26 28.9
Atria	107 14.7	S 69 04.2
Sabik	102 05.1	S 15 45.2
Shaula	96 13.1	S 37 07.2
Rasalhague	96 00.5	N 12 32.9
Etamin	90 43.3	N 51 29.4
Kaus Australis	83 35.1	S 34 22.4
Vega	80 34.7	N 38 48.4
Nunki	75 50.1	S 26 16.1
Albireo	67 05.6	N 28 00.6
Altair	62 01.9	N 08 55.7
Peacock	53 08.6	S 56 39.9
Deneb	49 27.0	N 45 21.9
Enif	33 40.5	N 09 58.9
Alnair	27 35.0	S 46 51.2
Formalhaut	15 16.4	S 29 30.1
Markab	13 31.5	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 276 of 365 **October 3** GHA ° ′	ddGHA ′	day 277 of 365 **October 4** GHA ° ′	ddGHA ′	day 278 of 365 **October 5** GHA ° ′	ddGHA ′	day 279 of 365 **October 6** GHA ° ′	ddGHA ′	day 280 of 365 **October 7** GHA ° ′	ddGHA ′	UT
00	11 40.8	+02.5	12 39.9	+02.5	13 39.1	+02.4	14 38.2	+02.5	15 37.4	+02.4	00
01	26 43.3	+02.4	27 42.4	+02.5	28 41.5	+02.5	29 40.7	+02.4	30 39.8	+02.5	01
02	41 45.7	+02.5	42 44.9	+02.4	43 44.0	+02.5	44 43.1	+02.5	45 42.3	+02.4	02
03	56 48.2	+02.5	57 47.3	+02.5	58 46.5	+02.4	59 45.6	+02.5	60 44.7	+02.5	03
04	71 50.7	+02.4	72 49.8	+02.5	73 48.9	+02.5	74 48.1	+02.4	75 47.2	+02.5	04
05	86 53.1	+02.5	87 52.3	+02.4	88 51.4	+02.5	89 50.5	+02.5	90 49.7	+02.4	05
06	101 55.6	+02.4	102 54.7	+02.5	103 53.9	+02.4	104 53.0	+02.5	105 52.1	+02.5	06
07	116 58.0	+02.5	117 57.2	+02.4	118 56.3	+02.5	119 55.5	+02.4	120 54.6	+02.5	07
08	132 00.5	+02.5	132 59.6	+02.5	133 58.8	+02.5	134 57.9	+02.5	135 57.1	+02.4	08
09	147 03.0	+02.4	148 02.1	+02.5	149 01.3	+02.4	150 00.4	+02.5	150 59.5	+02.5	09
10	162 05.4	+02.5	163 04.6	+02.4	164 03.7	+02.5	165 02.9	+02.4	166 02.0	+02.5	10
11	177 07.9	+02.5	178 07.0	+02.5	179 06.2	+02.4	180 05.3	+02.5	181 04.5	+02.4	11
12	192 10.4	+02.4	193 09.5	+02.5	194 08.6	+02.5	195 07.8	+02.4	196 06.9	+02.5	12
13	207 12.8	+02.5	208 12.0	+02.4	209 11.1	+02.5	210 10.2	+02.5	211 09.4	+02.4	13
14	222 15.3	+02.5	223 14.4	+02.5	224 13.6	+02.4	225 12.7	+02.5	226 11.8	+02.5	14
15	237 17.8	+02.4	238 16.9	+02.5	239 16.0	+02.5	240 15.2	+02.4	241 14.3	+02.5	15
16	252 20.2	+02.5	253 19.4	+02.4	254 18.5	+02.5	255 17.6	+02.5	256 16.8	+02.4	16
17	267 22.7	+02.4	268 21.8	+02.5	269 21.0	+02.4	270 20.1	+02.5	271 19.2	+02.5	17
18	282 25.1	+02.5	283 24.3	+02.5	284 23.4	+02.5	285 22.6	+02.4	286 21.7	+02.5	18
19	297 27.6	+02.5	298 26.8	+02.4	299 25.9	+02.5	300 25.0	+02.5	301 24.2	+02.4	19
20	312 30.1	+02.4	313 29.2	+02.5	314 28.4	+02.4	315 27.5	+02.5	316 26.6	+02.5	20
21	327 32.5	+02.5	328 31.7	+02.4	329 30.8	+02.5	330 30.0	+02.4	331 29.1	+02.5	21
22	342 35.0	+02.5	343 34.1	+02.5	344 33.3	+02.4	345 32.4	+02.5	346 31.6	+02.4	22
23	357 37.5	+02.4	358 36.6	+02.5	359 35.7	+02.5	0 34.9	+02.5	1 34.0	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1
Ankaa	353 08.7	S 42 10.8
Schedir	349 32.7	N 56 39.7
Diphda	348 48.9	S 17 51.7
Achernar	335 21.1	S 57 07.2
Hamal	327 53.1	N 23 34.3
Polaris	314 34.4	N 89 21.4
Acamar	315 12.8	S 40 12.6
Menkar	314 07.9	N 04 10.8
Mirfak	308 30.6	N 49 56.4
Aldebaran	290 41.6	N 16 33.4
Capella	280 24.6	N 46 01.3
Rigel	281 05.6	S 08 10.3
Bellatrix	278 24.8	N 06 22.3
Elnath	278 04.1	N 28 37.6
Alnilam	275 39.6	S 01 11.1
Betelgeuze	270 54.1	N 07 24.8
Canopus	263 53.2	S 52 42.1
Sirius	258 27.7	S 16 44.1
Adhara	255 07.4	S 28 59.9
Castor	245 59.5	N 31 50.3
Procyon	244 52.7	N 05 10.5
Pollux	243 19.4	N 27 58.3
Avior	234 15.8	S 59 34.6
Suhail	222 47.9	S 43 31.1
Miaplacidus	221 39.0	S 69 48.3
Alphard	217 49.8	S 08 45.2
Regulus	207 36.6	N 11 51.5
Dubhe	193 43.8	N 61 37.7
Denebola	182 27.0	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.8	S 17 39.9
Acrux	173 02.9	S 63 13.3
Gacrux	171 54.4	S 57 14.2
Alioth	166 15.3	N 55 50.3
Spica	158 24.6	S 11 16.6
Alkaid	152 53.9	N 49 12.2
Hadar	148 39.3	S 60 28.9
Menkent	147 59.9	S 36 28.5
Arcturus	145 49.6	N 19 04.8
Rigel Kentaurus	139 40.8	S 60 55.9
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.7	N 74 03.9
Alphecca	126 05.6	N 26 38.6
Antares	112 18.5	S 26 28.9
Atria	107 14.5	S 69 04.3
Sabik	102 05.1	S 15 45.2
Shaula	96 13.0	S 37 07.3
Rasalhague	96 00.4	N 12 32.9
Etamin	90 43.2	N 51 29.4
Kaus Australis	83 35.0	S 34 22.4
Vega	80 34.6	N 38 48.4
Nunki	75 50.1	S 26 16.1
Albireo	67 05.5	N 28 00.6
Altair	62 01.9	N 08 55.7
Peacock	53 08.5	S 56 39.9
Deneb	49 26.9	N 45 21.9
Enif	33 40.4	N 09 58.9
Alnair	27 35.0	S 46 51.1
Formalhaut	15 16.4	S 29 30.1
Markab	13 31.5	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 281 of 365 **October 8** GHA ° ′	ddGHA ′	day 282 of 365 **October 9** GHA ° ′	ddGHA ′	day 283 of 365 **October 10** GHA ° ′	ddGHA ′	day 284 of 365 **October 11** GHA ° ′	ddGHA ′	day 285 of 365 **October 12** GHA ° ′	ddGHA ′	UT
00	16 36.5	+02.5	17 35.6	+02.5	18 34.8	+02.4	19 33.9	+02.5	20 33.0	+02.5	00
01	31 39.0	+02.4	32 38.1	+02.5	33 37.2	+02.5	34 36.4	+02.4	35 35.5	+02.5	01
02	46 41.4	+02.5	47 40.6	+02.4	48 39.7	+02.5	49 38.8	+02.5	50 38.0	+02.4	02
03	61 43.9	+02.4	62 43.0	+02.5	63 42.2	+02.4	64 41.3	+02.5	65 40.4	+02.5	03
04	76 46.3	+02.5	77 45.5	+02.4	78 44.6	+02.5	79 43.8	+02.4	80 42.9	+02.5	04
05	91 48.8	+02.5	92 47.9	+02.5	93 47.1	+02.4	94 46.2	+02.5	95 45.4	+02.4	05
06	106 51.3	+02.4	107 50.4	+02.5	108 49.5	+02.5	109 48.7	+02.4	110 47.8	+02.5	06
07	121 53.7	+02.5	122 52.9	+02.4	123 52.0	+02.5	124 51.1	+02.5	125 50.3	+02.4	07
08	136 56.2	+02.5	137 55.3	+02.5	138 54.5	+02.4	139 53.6	+02.5	140 52.7	+02.5	08
09	151 58.7	+02.4	152 57.8	+02.5	153 56.9	+02.5	154 56.1	+02.4	155 55.2	+02.5	09
10	167 01.1	+02.5	168 00.3	+02.4	168 59.4	+02.5	169 58.5	+02.5	170 57.7	+02.4	10
11	182 03.6	+02.5	183 02.7	+02.5	184 01.9	+02.4	185 01.0	+02.5	186 00.1	+02.5	11
12	197 06.1	+02.4	198 05.2	+02.5	199 04.3	+02.5	200 03.5	+02.4	201 02.6	+02.5	12
13	212 08.5	+02.5	213 07.7	+02.4	214 06.8	+02.5	215 05.9	+02.5	216 05.1	+02.4	13
14	227 11.0	+02.4	228 10.1	+02.5	229 09.3	+02.4	230 08.4	+02.5	231 07.5	+02.5	14
15	242 13.4	+02.5	243 12.6	+02.4	244 11.7	+02.5	245 10.9	+02.4	246 10.0	+02.5	15
16	257 15.9	+02.5	258 15.0	+02.5	259 14.2	+02.4	260 13.3	+02.5	261 12.5	+02.4	16
17	272 18.4	+02.4	273 17.5	+02.5	274 16.6	+02.5	275 15.8	+02.5	276 14.9	+02.5	17
18	287 20.8	+02.5	288 20.0	+02.4	289 19.1	+02.5	290 18.3	+02.4	291 17.4	+02.5	18
19	302 23.3	+02.5	303 22.4	+02.5	304 21.6	+02.4	305 20.7	+02.5	306 19.9	+02.4	19
20	317 25.8	+02.4	318 24.9	+02.5	319 24.0	+02.5	320 23.2	+02.4	321 22.3	+02.5	20
21	332 28.2	+02.5	333 27.4	+02.4	334 26.5	+02.5	335 25.6	+02.5	336 24.8	+02.4	21
22	347 30.7	+02.5	348 29.8	+02.5	349 29.0	+02.4	350 28.1	+02.5	351 27.2	+02.5	22
23	2 33.2	+02.4	3 32.3	+02.5	4 31.4	+02.5	5 30.6	+02.4	6 29.7	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.7	S 42 10.8	*Acrux*	173 02.9	S 63 13.3
Schedir	349 32.6	N 56 39.8	*Gacrux*	171 54.4	S 57 14.2
Diphda	348 48.9	S 17 51.7	*Alioth*	166 15.3	N 55 50.3
Achernar	335 21.1	S 57 07.2	Spica	158 24.6	S 11 16.6
Hamal	327 53.1	N 23 34.3	*Alkaid*	152 53.9	N 49 12.2
Polaris	314 32.9	N 89 21.4	*Hadar*	148 39.3	S 60 28.9
Acamar	315 12.8	S 40 12.7	*Menkent*	147 59.9	S 36 28.5
Menkar	314 07.8	N 04 10.8	Arcturus	145 49.6	N 19 04.8
Mirfak	308 30.6	N 49 56.4	*Rigel Kentaurus*	139 40.8	S 60 55.9
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 58.3	S 16 08.0
Capella	280 24.5	N 46 01.3	*Kocab*	137 20.8	N 74 03.9
Rigel	281 05.5	S 08 10.3	Alphecca	126 05.7	N 26 38.5
Bellatrix	278 24.8	N 06 22.3	Antares	112 18.5	S 26 28.9
Elnath	278 04.1	N 28 37.6	*Atria*	107 14.6	S 69 04.2
Alnilam	275 39.5	S 01 11.1	Sabik	102 05.1	S 15 45.2
Betelgeuze	270 54.0	N 07 24.8	*Shaula*	96 13.1	S 37 07.3
Canopus	263 53.1	S 52 42.1	Rasalhague	96 00.4	N 12 32.9
Sirius	258 27.7	S 16 44.1	*Etamin*	90 43.2	N 51 29.4
Adhara	255 07.3	S 28 59.9	*Kaus Australis*	83 35.1	S 34 22.4
Castor	245 59.4	N 31 50.3	*Vega*	80 34.6	N 38 48.4
Procyon	244 52.6	N 05 10.5	Nunki	75 50.1	S 26 16.1
Pollux	243 19.3	N 27 58.3	Albireo	67 05.5	N 28 00.6
Avior	234 15.7	S 59 34.6	Altair	62 01.9	N 08 55.7
Suhail	222 47.9	S 43 31.1	*Peacock*	53 08.5	S 56 39.9
Miaplacidus	221 39.0	S 69 48.3	*Deneb*	49 26.9	N 45 21.9
Alphard	217 49.8	S 08 45.2	Enif	33 40.4	N 09 58.9
Regulus	207 36.6	N 11 51.5	*Alnair*	27 35.0	S 46 51.1
Dubhe	193 43.8	N 61 37.7	Formalhaut	15 16.4	S 29 30.1
Denebola	182 27.0	N 14 26.9	Markab	13 31.5	N 15 19.8

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UT	day 286 of 365 **October 13** GHA ° ′	ddGHA ′	day 287 of 365 **October 14** GHA ° ′	ddGHA ′	day 288 of 365 **October 15** GHA ° ′	ddGHA ′	day 289 of 365 **October 16** GHA ° ′	ddGHA ′	day 290 of 365 **October 17** GHA ° ′	ddGHA ′	UT
00	21 32.2	+02.4	22 31.3	+02.5	23 30.5	+02.4	24 29.6	+02.5	25 28.7	+02.5	00
01	36 34.6	+02.5	37 33.8	+02.4	38 32.9	+02.5	39 32.1	+02.4	40 31.2	+02.5	01
02	51 37.1	+02.5	52 36.2	+02.5	53 35.4	+02.4	54 34.5	+02.5	55 33.7	+02.4	02
03	66 39.6	+02.4	67 38.7	+02.5	68 37.8	+02.5	69 37.0	+02.4	70 36.1	+02.5	03
04	81 42.0	+02.5	82 41.2	+02.4	83 40.3	+02.5	84 39.4	+02.5	85 38.6	+02.5	04
05	96 44.5	+02.5	97 43.6	+02.5	98 42.8	+02.4	99 41.9	+02.5	100 41.1	+02.4	05
06	111 47.0	+02.4	112 46.1	+02.5	113 45.2	+02.5	114 44.4	+02.4	115 43.5	+02.5	06
07	126 49.4	+02.5	127 48.6	+02.4	128 47.7	+02.5	129 46.8	+02.5	130 46.0	+02.4	07
08	141 51.9	+02.5	142 51.0	+02.5	143 50.2	+02.4	144 49.3	+02.5	145 48.4	+02.5	08
09	156 54.4	+02.4	157 53.5	+02.5	158 52.6	+02.5	159 51.8	+02.4	160 50.9	+02.5	09
10	171 56.8	+02.5	172 56.0	+02.4	173 55.1	+02.5	174 54.2	+02.5	175 53.4	+02.4	10
11	186 59.3	+02.4	187 58.4	+02.5	188 57.6	+02.4	189 56.7	+02.5	190 55.8	+02.5	11
12	202 01.7	+02.5	203 00.9	+02.4	204 00.0	+02.5	204 59.2	+02.4	205 58.3	+02.5	12
13	217 04.2	+02.5	218 03.3	+02.5	219 02.5	+02.5	220 01.6	+02.5	221 00.8	+02.4	13
14	232 06.7	+02.4	233 05.8	+02.5	234 05.0	+02.4	235 04.1	+02.5	236 03.2	+02.5	14
15	247 09.1	+02.5	248 08.3	+02.4	249 07.4	+02.5	250 06.6	+02.4	251 05.7	+02.5	15
16	262 11.6	+02.5	263 10.7	+02.5	264 09.9	+02.4	265 09.0	+02.5	266 08.2	+02.4	16
17	277 14.1	+02.4	278 13.2	+02.5	279 12.3	+02.5	280 11.5	+02.4	281 10.6	+02.5	17
18	292 16.5	+02.5	293 15.7	+02.4	294 14.8	+02.5	295 13.9	+02.5	296 13.1	+02.5	18
19	307 19.0	+02.5	308 18.1	+02.5	309 17.3	+02.4	310 16.4	+02.5	311 15.6	+02.4	19
20	322 21.5	+02.4	323 20.6	+02.5	324 19.7	+02.5	325 18.9	+02.4	326 18.0	+02.5	20
21	337 23.9	+02.5	338 23.1	+02.4	339 22.2	+02.5	340 21.3	+02.5	341 20.5	+02.4	21
22	352 26.4	+02.4	353 25.5	+02.5	354 24.7	+02.4	355 23.8	+02.5	356 22.9	+02.5	22
23	7 28.8	+02.5	8 28.0	+02.5	9 27.1	+02.5	10 26.3	+02.4	11 25.4	+02.5	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1	Gienah	175 45.8	S 17 39.9
Ankaa	353 08.7	S 42 10.8	*Acrux*	173 02.9	S 63 13.3
Schedir	349 32.6	N 56 39.8	*Gacrux*	171 54.3	S 57 14.1
Diphda	348 48.9	S 17 51.7	*Alioth*	166 15.3	N 55 50.3
Achernar	335 21.1	S 57 07.2	Spica	158 24.6	S 11 16.6
Hamal	327 53.0	N 23 34.3	*Alkaid*	152 53.9	N 49 12.1
Polaris	314 31.3	N 89 21.4	*Hadar*	148 39.3	S 60 28.9
Acamar	315 12.8	S 40 12.7	*Menkent*	147 59.9	S 36 28.5
Menkar	314 07.8	N 04 10.8	Arcturus	145 49.6	N 19 04.8
Mirfak	308 30.5	N 49 56.4	*Rigel Kentaurus*	139 40.9	S 60 55.9
Aldebaran	290 41.6	N 16 33.4	Zubenelgenubi	136 58.4	S 16 08.0
Capella	280 24.5	N 46 01.3	*Kocab*	137 20.8	N 74 03.9
Rigel	281 05.5	S 08 10.4	Alphecca	126 05.7	N 26 38.5
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Elnath	278 04.1	N 28 37.6	*Atria*	107 14.6	S 69 04.2
Alnilam	275 39.5	S 01 11.1	Sabik	102 05.1	S 15 45.2
Betelgeuze	270 54.0	N 07 24.8	*Shaula*	96 13.1	S 37 07.3
Canopus	263 53.1	S 52 42.1	Rasalhague	96 00.5	N 12 32.9
Sirius	258 27.6	S 16 44.1	*Etamin*	90 43.2	N 51 29.4
Adhara	255 07.3	S 28 59.9	*Kaus Australis*	83 35.1	S 34 22.4
Castor	245 59.4	N 31 50.3	*Vega*	80 34.7	N 38 48.4
Procyon	244 52.6	N 05 10.5	Nunki	75 50.1	S 26 16.1
Pollux	243 19.3	N 27 58.3	Albireo	67 05.6	N 28 00.6
Avior	234 15.6	S 59 34.5	Altair	62 01.9	N 08 55.7
Suhail	222 47.9	S 43 31.1	*Peacock*	53 08.5	S 56 39.9
Miaplacidus	221 38.9	S 69 48.3	*Deneb*	49 26.9	N 45 21.9
Alphard	217 49.8	S 08 45.2	Enif	33 40.5	N 09 58.9
Regulus	207 36.5	N 11 51.5	*Alnair*	27 35.0	S 46 51.1
Dubhe	193 43.7	N 61 37.7	Formalhaut	15 16.4	S 29 30.1
Denebola	182 27.0	N 14 26.9	Markab	13 31.5	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 311 of 365 November 7 GHA	ddGHA	day 312 of 365 November 8 GHA	ddGHA	day 313 of 365 November 9 GHA	ddGHA	day 314 of 365 November 10 GHA	ddGHA	day 315 of 365 November 11 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	46 10.6	+02.5	47 09.8	+02.4	48 08.9	+02.5	49 08.1	+02.4	50 07.2	+02.5	00
01	61 13.1	+02.5	62 12.2	+02.5	63 11.4	+02.4	64 10.5	+02.5	65 09.7	+02.4	01
02	76 15.6	+02.4	77 14.7	+02.5	78 13.8	+02.5	79 13.0	+02.5	80 12.1	+02.5	02
03	91 18.0	+02.5	92 17.2	+02.4	93 16.3	+02.5	94 15.5	+02.4	95 14.6	+02.5	03
04	106 20.5	+02.5	107 19.6	+02.5	108 18.8	+02.4	109 17.9	+02.5	110 17.1	+02.4	04
05	121 23.0	+02.4	122 22.1	+02.5	123 21.2	+02.5	124 20.4	+02.4	125 19.5	+02.5	05
06	136 25.4	+02.5	137 24.6	+02.4	138 23.7	+02.5	139 22.8	+02.5	140 22.0	+02.4	06
07	151 27.9	+02.5	152 27.0	+02.5	153 26.2	+02.4	154 25.3	+02.5	155 24.4	+02.5	07
08	166 30.4	+02.4	167 29.5	+02.5	168 28.6	+02.5	169 27.8	+02.4	170 26.9	+02.5	08
09	181 32.8	+02.5	182 32.0	+02.4	183 31.1	+02.5	184 30.2	+02.5	185 29.4	+02.4	09
10	196 35.3	+02.4	197 34.4	+02.5	198 33.6	+02.4	199 32.7	+02.5	200 31.8	+02.5	10
11	211 37.7	+02.5	212 36.9	+02.5	213 36.0	+02.5	214 35.2	+02.4	215 34.3	+02.5	11
12	226 40.2	+02.5	227 39.4	+02.4	228 38.5	+02.5	229 37.6	+02.5	230 36.8	+02.4	12
13	241 42.7	+02.4	242 41.8	+02.5	243 41.0	+02.4	244 40.1	+02.5	245 39.2	+02.5	13
14	256 45.1	+02.5	257 44.3	+02.4	258 43.4	+02.5	259 42.6	+02.4	260 41.7	+02.5	14
15	271 47.6	+02.5	272 46.7	+02.5	273 45.9	+02.4	274 45.0	+02.5	275 44.2	+02.4	15
16	286 50.1	+02.4	287 49.2	+02.5	288 48.3	+02.5	289 47.5	+02.5	290 46.6	+02.5	16
17	301 52.5	+02.5	302 51.7	+02.4	303 50.8	+02.5	304 50.0	+02.4	305 49.1	+02.5	17
18	316 55.0	+02.5	317 54.1	+02.5	318 53.3	+02.4	319 52.4	+02.5	320 51.6	+02.4	18
19	331 57.5	+02.4	332 56.6	+02.5	333 55.7	+02.5	334 54.9	+02.4	335 54.0	+02.5	19
20	346 59.9	+02.5	347 59.1	+02.4	348 58.2	+02.5	349 57.3	+02.5	350 56.5	+02.4	20
21	2 02.4	+02.5	3 01.5	+02.5	4 00.7	+02.4	4 59.8	+02.5	5 58.9	+02.5	21
22	17 04.9	+02.4	18 04.0	+02.5	19 03.1	+02.5	20 02.3	+02.4	21 01.4	+02.5	22
23	32 07.3	+02.5	33 06.5	+02.4	34 05.6	+02.5	35 04.7	+02.5	36 03.9	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.2
Ankaa	353 08.7	S 42 10.9
Schedir	349 32.7	N 56 39.9
Diphda	348 48.9	S 17 51.7
Achernar	335 21.1	S 57 07.4
Hamal	327 53.0	N 23 34.3
Polaris	314 26.2	N 89 21.6
Acamar	315 12.7	S 40 12.8
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.4	N 49 56.5
Aldebaran	290 41.4	N 16 33.4
Capella	280 24.2	N 46 01.3
Rigel	281 05.3	S 08 10.4
Bellatrix	278 24.6	N 06 22.3
Elnath	278 03.9	N 28 37.6
Alnilam	275 39.3	S 01 11.1
Betelgeuze	270 53.8	N 07 24.7
Canopus	263 52.9	S 52 42.2
Sirius	258 27.5	S 16 44.2
Adhara	255 07.1	S 28 59.9
Castor	245 59.2	N 31 50.3
Procyon	244 52.4	N 05 10.5
Pollux	243 19.1	N 27 58.3
Avior	234 15.3	S 59 34.6
Suhail	222 47.6	S 43 31.1
Miaplacidus	221 38.5	S 69 48.3
Alphard	217 49.6	S 08 45.2
Regulus	207 36.4	N 11 51.4
Dubhe	193 43.5	N 61 37.5
Denebola	182 26.9	N 14 26.8

	SHA ° ′	Dec ° ′
Gienah	175 45.7	S 17 39.9
Acrux	173 02.7	S 63 13.2
Gacrux	171 54.2	S 57 14.1
Alioth	166 15.2	N 55 50.1
Spica	158 24.5	S 11 16.6
Alkaid	152 53.9	N 49 12.0
Hadar	148 39.2	S 60 28.8
Menkent	147 59.9	S 36 28.5
Arcturus	145 49.5	N 19 04.7
Rigel Kentaurus	139 40.8	S 60 55.8
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.9	N 74 03.7
Alphecca	126 05.7	N 26 38.4
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.1
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.5	N 12 32.8
Etamin	90 43.4	N 51 29.3
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.8	N 38 48.4
Nunki	75 50.2	S 26 16.1
Albireo	67 05.7	N 28 00.6
Altair	62 02.0	N 08 55.7
Peacock	53 08.7	S 56 39.9
Deneb	49 27.1	N 45 21.9
Enif	33 40.5	N 09 58.9
Alnair	27 35.1	S 46 51.2
Formalhaut	15 16.5	S 29 30.2
Markab	13 31.6	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 296 of 365 October 23 GHA	ddGHA	day 297 of 365 October 24 GHA	ddGHA	day 298 of 365 October 25 GHA	ddGHA	day 299 of 365 October 26 GHA	ddGHA	day 300 of 365 October 27 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	31 23.6	+02.4	32 22.7	+02.5	33 21.8	+02.5	34 21.0	+02.4	35 20.1	+02.5	00
01	46 26.0	+02.5	47 25.2	+02.4	48 24.3	+02.5	49 23.4	+02.5	50 22.6	+02.4	01
02	61 28.5	+02.5	62 27.6	+02.5	63 26.8	+02.4	64 25.9	+02.5	65 25.0	+02.5	02
03	76 31.0	+02.4	77 30.1	+02.5	78 29.2	+02.5	79 28.4	+02.4	80 27.5	+02.5	03
04	91 33.4	+02.5	92 32.6	+02.4	93 31.7	+02.5	94 30.8	+02.5	95 30.0	+02.4	04
05	106 35.9	+02.4	107 35.0	+02.5	108 34.2	+02.4	109 33.3	+02.5	110 32.4	+02.5	05
06	121 38.3	+02.5	122 37.5	+02.4	123 36.6	+02.5	124 35.8	+02.4	125 34.9	+02.5	06
07	136 40.8	+02.5	137 39.9	+02.5	138 39.1	+02.4	139 38.2	+02.5	140 37.4	+02.4	07
08	151 43.3	+02.4	152 42.4	+02.5	153 41.5	+02.5	154 40.7	+02.5	155 39.8	+02.5	08
09	166 45.7	+02.5	167 44.9	+02.4	168 44.0	+02.5	169 43.2	+02.4	170 42.3	+02.5	09
10	181 48.2	+02.5	182 47.3	+02.5	183 46.5	+02.4	184 45.6	+02.5	185 44.8	+02.4	10
11	196 50.7	+02.4	197 49.8	+02.5	198 48.9	+02.5	199 48.1	+02.4	200 47.2	+02.5	11
12	211 53.1	+02.5	212 52.3	+02.4	213 51.4	+02.5	214 50.5	+02.5	215 49.7	+02.4	12
13	226 55.6	+02.5	227 54.7	+02.5	228 53.9	+02.4	229 53.0	+02.5	230 52.1	+02.5	13
14	241 58.1	+02.4	242 57.2	+02.5	243 56.3	+02.5	244 55.5	+02.4	245 54.6	+02.5	14
15	257 00.5	+02.5	257 59.7	+02.4	258 58.8	+02.5	259 57.9	+02.5	260 57.1	+02.4	15
16	272 03.0	+02.5	273 02.1	+02.5	274 01.3	+02.4	275 00.4	+02.5	275 59.5	+02.5	16
17	287 05.5	+02.4	288 04.6	+02.5	289 03.7	+02.5	290 02.9	+02.4	291 02.0	+02.5	17
18	302 07.9	+02.5	303 07.1	+02.4	304 06.2	+02.5	305 05.3	+02.5	306 04.5	+02.4	18
19	317 10.4	+02.4	318 09.5	+02.5	319 08.7	+02.4	320 07.8	+02.5	321 06.9	+02.5	19
20	332 12.8	+02.5	333 12.0	+02.4	334 11.1	+02.5	335 10.3	+02.4	336 09.4	+02.5	20
21	347 15.3	+02.5	348 14.4	+02.5	349 13.6	+02.4	350 12.7	+02.5	351 11.9	+02.4	21
22	2 17.8	+02.4	3 16.9	+02.5	4 16.0	+02.5	5 15.2	+02.4	6 14.3	+02.5	22
23	17 20.2	+02.5	18 19.4	+02.4	19 18.5	+02.5	20 17.6	+02.5	21 16.8	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1
Ankaa	353 08.7	S 42 10.9
Schedir	349 32.6	N 56 39.8
Diphda	348 48.9	S 17 51.7
Achernar	335 21.0	S 57 07.3
Hamal	327 53.0	N 23 34.3
Polaris	314 28.8	N 89 21.5
Acamar	315 12.7	S 40 12.7
Menkar	314 07.8	N 04 10.8
Mirfak	308 30.4	N 49 56.5
Aldebaran	290 41.5	N 16 33.4
Capella	280 24.4	N 46 01.3
Rigel	281 05.4	S 08 10.4
Bellatrix	278 24.6	N 06 22.3
Elnath	278 04.0	N 28 37.6
Alnilam	275 39.4	S 01 11.1
Betelgeuze	270 53.9	N 07 24.8
Canopus	263 53.0	S 52 42.1
Sirius	258 27.6	S 16 44.1
Adhara	255 07.2	S 28 59.9
Castor	245 59.3	N 31 50.3
Procyon	244 52.5	N 05 10.5
Pollux	243 19.2	N 27 58.3
Avior	234 15.5	S 59 34.5
Suhail	222 47.8	S 43 31.1
Miaplacidus	221 38.7	S 69 48.2
Alphard	217 49.7	S 08 45.2
Regulus	207 36.5	N 11 51.5
Dubhe	193 43.6	N 61 37.6
Denebola	182 27.0	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.7	S 17 39.9
Acrux	173 02.8	S 63 13.3
Gacrux	171 54.3	S 57 14.1
Alioth	166 15.3	N 55 50.2
Spica	158 24.6	S 11 16.6
Alkaid	152 53.9	N 49 12.1
Hadar	148 39.3	S 60 28.8
Menkent	147 59.9	S 36 28.5
Arcturus	145 49.6	N 19 04.7
Rigel Kentaurus	139 40.9	S 60 55.8
Zubenelgenubi	136 58.4	S 16 08.0
Kocab	137 20.9	N 74 03.8
Alphecca	126 05.7	N 26 38.5
Antares	112 18.5	S 26 28.9
Atria	107 14.7	S 69 04.2
Sabik	102 05.2	S 15 45.2
Shaula	96 13.1	S 37 07.2
Rasalhague	96 00.5	N 12 32.8
Etamin	90 43.3	N 51 29.4
Kaus Australis	83 35.1	S 34 22.4
Vega	80 34.7	N 38 48.4
Nunki	75 50.2	S 26 16.1
Albireo	67 05.6	N 28 00.6
Altair	62 02.0	N 08 55.7
Peacock	53 08.6	S 56 39.9
Deneb	49 27.0	N 45 21.9
Enif	33 40.5	N 09 58.9
Alnair	27 35.1	S 46 51.2
Formalhaut	15 16.4	S 29 30.1
Markab	13 31.5	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 301 of 365 **October 28** GHA ° ′	ddGHA ′	day 302 of 365 **October 29** GHA ° ′	ddGHA ′	day 303 of 365 **October 30** GHA ° ′	ddGHA ′	day 304 of 365 **October 31** GHA ° ′	ddGHA ′	day 305 of 365 **November 1** GHA ° ′	ddGHA ′	UT
00	36 19.3	+02.4	37 18.4	+02.5	38 17.5	+02.5	39 16.7	+02.4	40 15.8	+02.5	00
01	51 21.7	+02.5	52 20.9	+02.4	53 20.0	+02.5	54 19.1	+02.5	55 18.3	+02.4	01
02	66 24.2	+02.4	67 23.3	+02.5	68 22.5	+02.4	69 21.6	+02.5	70 20.7	+02.5	02
03	81 26.6	+02.5	82 25.8	+02.4	83 24.9	+02.5	84 24.1	+02.4	85 23.2	+02.5	03
04	96 29.1	+02.5	97 28.2	+02.5	98 27.4	+02.5	99 26.5	+02.5	100 25.7	+02.4	04
05	111 31.6	+02.4	112 30.7	+02.5	113 29.9	+02.4	114 29.0	+02.5	115 28.1	+02.5	05
06	126 34.0	+02.5	127 33.2	+02.4	128 32.3	+02.5	129 31.5	+02.4	130 30.6	+02.5	06
07	141 36.5	+02.5	142 35.6	+02.5	143 34.8	+02.4	144 33.9	+02.5	145 33.1	+02.4	07
08	156 39.0	+02.4	157 38.1	+02.5	158 37.2	+02.5	159 36.4	+02.5	160 35.5	+02.5	08
09	171 41.4	+02.5	172 40.6	+02.4	173 39.7	+02.5	174 38.9	+02.4	175 38.0	+02.5	09
10	186 43.9	+02.5	187 43.0	+02.5	188 42.2	+02.4	189 41.3	+02.5	190 40.5	+02.4	10
11	201 46.4	+02.4	202 45.5	+02.5	203 44.6	+02.5	204 43.8	+02.4	205 42.9	+02.5	11
12	216 48.8	+02.5	217 48.0	+02.4	218 47.1	+02.5	219 46.2	+02.5	220 45.4	+02.4	12
13	231 51.3	+02.5	232 50.4	+02.5	233 49.6	+02.4	234 48.7	+02.5	235 47.8	+02.5	13
14	246 53.8	+02.4	247 52.9	+02.5	248 52.0	+02.5	249 51.2	+02.4	250 50.3	+02.5	14
15	261 56.2	+02.5	262 55.4	+02.4	263 54.5	+02.5	264 53.6	+02.5	265 52.8	+02.4	15
16	276 58.7	+02.4	277 57.8	+02.5	278 57.0	+02.4	279 56.1	+02.5	280 55.2	+02.5	16
17	292 01.1	+02.5	293 00.3	+02.4	293 59.4	+02.5	294 58.6	+02.4	295 57.7	+02.5	17
18	307 03.6	+02.5	308 02.7	+02.5	309 01.9	+02.5	310 01.0	+02.5	311 00.2	+02.4	18
19	322 06.1	+02.4	323 05.2	+02.5	324 04.4	+02.4	325 03.5	+02.5	326 02.6	+02.5	19
20	337 08.5	+02.5	338 07.7	+02.4	339 06.8	+02.5	340 06.0	+02.4	341 05.1	+02.5	20
21	352 11.0	+02.5	353 10.1	+02.5	354 09.3	+02.4	355 08.4	+02.5	356 07.6	+02.4	21
22	7 13.5	+02.4	8 12.6	+02.5	9 11.7	+02.5	10 10.9	+02.5	11 10.0	+02.5	22
23	22 15.9	+02.5	23 15.1	+02.4	24 14.2	+02.5	25 13.4	+02.4	26 12.5	+02.5	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.1
Ankaa	353 08.7	S 42 10.9
Schedir	349 32.6	N 56 39.9
Diphda	348 48.9	S 17 51.7
Achernar	335 21.1	S 57 07.3
Hamal	327 53.0	N 23 34.3
Polaris	314 27.6	N 89 21.5
Acamar	315 12.7	S 40 12.7
Menkar	314 07.8	N 04 10.8
Mirfak	308 30.4	N 49 56.5
Aldebaran	290 41.5	N 16 33.4
Capella	280 24.3	N 46 01.3
Rigel	281 05.4	S 08 10.4
Bellatrix	278 24.6	N 06 22.3
Elnath	278 04.0	N 28 37.6
Alnilam	275 39.4	S 01 11.1
Betelgeuze	270 53.9	N 07 24.8
Canopus	263 53.0	S 52 42.1
Sirius	258 27.5	S 16 44.2
Adhara	255 07.2	S 28 59.9
Castor	245 59.3	N 31 50.3
Procyon	244 52.5	N 05 10.5
Pollux	243 19.2	N 27 58.3
Avior	234 15.5	S 59 34.6
Suhail	222 47.7	S 43 31.1
Miaplacidus	221 38.7	S 69 48.2
Alphard	217 49.7	S 08 45.2
Regulus	207 36.4	N 11 51.5
Dubhe	193 43.6	N 61 37.6
Denebola	182 26.9	N 14 26.9

	SHA ° ′	Dec ° ′
Gienah	175 45.7	S 17 39.9
Acrux	173 02.8	S 63 13.2
Gacrux	171 54.3	S 57 14.1
Alioth	166 15.2	N 55 50.2
Spica	158 24.6	S 11 16.6
Alkaid	152 53.9	N 49 12.1
Hadar	148 39.3	S 60 28.8
Menkent	147 59.9	S 36 28.5
Arcturus	145 49.6	N 19 04.7
Rigel Kentaurus	139 40.9	S 60 55.8
Zubenelgenubi	136 58.4	S 16 08.0
Kocab	137 20.9	N 74 03.8
Alphecca	126 05.7	N 26 38.5
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.2
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.5	N 12 32.8
Etamin	90 43.4	N 51 29.4
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.8	N 38 48.4
Nunki	75 50.2	S 26 16.1
Albireo	67 05.6	N 28 00.6
Altair	62 02.0	N 08 55.7
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Deneb	49 27.0	N 45 21.9
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Alnair	27 35.1	S 46 51.2
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2022 - First Point of Aries / Selected Stars

UT	day 306 of 365 **November 2** GHA ° ′	ddGHA ′	day 307 of 365 **November 3** GHA ° ′	ddGHA ′	day 308 of 365 **November 4** GHA ° ′	ddGHA ′	day 309 of 365 **November 5** GHA ° ′	ddGHA ′	day 310 of 365 **November 6** GHA ° ′	ddGHA ′	UT
00	41 15.0	+02.4	42 14.1	+02.5	43 13.2	+02.5	44 12.4	+02.4	45 11.5	+02.5	00
01	56 17.4	+02.5	57 16.6	+02.4	58 15.7	+02.5	59 14.8	+02.5	60 14.0	+02.4	01
02	71 19.9	+02.4	72 19.0	+02.5	73 18.2	+02.4	74 17.3	+02.5	75 16.4	+02.5	02
03	86 22.3	+02.5	87 21.5	+02.4	88 20.6	+02.5	89 19.8	+02.4	90 18.9	+02.5	03
04	101 24.8	+02.5	102 23.9	+02.5	103 23.1	+02.5	104 22.2	+02.5	105 21.4	+02.4	04
05	116 27.3	+02.4	117 26.4	+02.5	118 25.6	+02.4	119 24.7	+02.5	120 23.8	+02.5	05
06	131 29.7	+02.5	132 28.9	+02.4	133 28.0	+02.5	134 27.2	+02.4	135 26.3	+02.5	06
07	146 32.2	+02.5	147 31.3	+02.5	148 30.5	+02.4	149 29.6	+02.5	150 28.8	+02.4	07
08	161 34.7	+02.4	162 33.8	+02.5	163 32.9	+02.5	164 32.1	+02.4	165 31.2	+02.5	08
09	176 37.1	+02.5	177 36.3	+02.4	178 35.4	+02.5	179 34.5	+02.5	180 33.7	+02.4	09
10	191 39.6	+02.5	192 38.7	+02.5	193 37.9	+02.4	194 37.0	+02.5	195 36.1	+02.5	10
11	206 42.1	+02.4	207 41.2	+02.5	208 40.3	+02.5	209 39.5	+02.4	210 38.6	+02.5	11
12	221 44.5	+02.5	222 43.7	+02.4	223 42.8	+02.5	224 41.9	+02.5	225 41.1	+02.4	12
13	236 47.0	+02.5	237 46.1	+02.5	238 45.3	+02.4	239 44.4	+02.5	240 43.5	+02.5	13
14	251 49.5	+02.4	252 48.6	+02.5	253 47.7	+02.5	254 46.9	+02.4	255 46.0	+02.5	14
15	266 51.9	+02.5	267 51.1	+02.4	268 50.2	+02.5	269 49.3	+02.5	270 48.5	+02.4	15
16	281 54.4	+02.4	282 53.5	+02.5	283 52.7	+02.4	284 51.8	+02.5	285 50.9	+02.5	16
17	296 56.8	+02.5	297 56.0	+02.4	298 55.1	+02.5	299 54.3	+02.4	300 53.4	+02.5	17
18	311 59.3	+02.5	312 58.4	+02.5	313 57.6	+02.4	314 56.7	+02.5	315 55.9	+02.4	18
19	327 01.8	+02.4	328 00.9	+02.5	329 00.0	+02.5	329 59.2	+02.4	330 58.3	+02.5	19
20	342 04.2	+02.5	343 03.4	+02.4	344 02.5	+02.5	345 01.6	+02.5	346 00.8	+02.5	20
21	357 06.7	+02.5	358 05.8	+02.5	359 05.0	+02.4	0 04.1	+02.5	1 03.3	+02.4	21
22	12 09.2	+02.4	13 08.3	+02.5	14 07.4	+02.5	15 06.6	+02.4	16 05.7	+02.5	22
23	27 11.6	+02.5	28 10.8	+02.4	29 09.9	+02.5	30 09.0	+02.5	31 08.2	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.4	N 29 13.2
Ankaa	353 08.7	S 42 10.9
Schedir	349 32.6	N 56 39.9
Diphda	348 48.9	S 17 51.7
Achernar	335 21.0	S 57 07.3
Hamal	327 53.0	N 23 34.3
Polaris	314 26.6	N 89 21.6
Acamar	315 12.7	S 40 12.8
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.4	N 49 56.5
Aldebaran	290 41.4	N 16 33.4
Capella	280 24.3	N 46 01.3
Rigel	281 05.4	S 08 10.4
Bellatrix	278 24.6	N 06 22.3
Elnath	278 03.9	N 28 37.6
Alnilam	275 39.3	S 01 11.1
Betelgeuze	270 53.9	N 07 24.7
Canopus	263 52.9	S 52 42.2
Sirius	258 27.5	S 16 44.2
Adhara	255 07.1	S 28 59.9
Castor	245 59.2	N 31 50.3
Procyon	244 52.4	N 05 10.5
Pollux	243 19.1	N 27 58.3
Avior	234 15.4	S 59 34.6
Suhail	222 47.7	S 43 31.1
Miaplacidus	221 38.6	S 69 48.3
Alphard	217 49.6	S 08 45.2
Regulus	207 36.4	N 11 51.4
Dubhe	193 43.5	N 61 37.6
Denebola	182 26.9	N 14 26.8

	SHA ° ′	Dec ° ′
Gienah	175 45.7	S 17 39.9
Acrux	173 02.7	S 63 13.2
Gacrux	171 54.2	S 57 14.1
Alioth	166 15.2	N 55 50.2
Spica	158 24.5	S 11 16.6
Alkaid	152 53.9	N 49 12.0
Hadar	148 39.2	S 60 28.8
Menkent	147 59.9	S 36 28.5
Arcturus	145 49.6	N 19 04.7
Rigel Kentaurus	139 40.8	S 60 55.8
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.9	N 74 03.7
Alphecca	126 05.7	N 26 38.5
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.2
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.5	N 12 32.8
Etamin	90 43.4	N 51 29.4
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.8	N 38 48.4
Nunki	75 50.2	S 26 16.1
Albireo	67 05.7	N 28 00.6
Altair	62 02.0	N 08 55.7
Peacock	53 08.7	S 56 39.9
Deneb	49 27.1	N 45 21.9
Enif	33 40.5	N 09 58.9
Alnair	27 35.1	S 46 51.2
Formalhaut	15 16.5	S 29 30.1
Markab	13 31.6	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 331 of 365 November 27 GHA	ddGHA	day 332 of 365 November 28 GHA	ddGHA	day 333 of 365 November 29 GHA	ddGHA	day 334 of 365 November 30 GHA	ddGHA	day 335 of 365 December 1 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	65 53.4	+02.5	66 52.6	+02.4	67 51.7	+02.5	68 50.9	+02.4	69 50.0	+02.5	00
01	80 55.9	+02.5	81 55.0	+02.5	82 54.2	+02.4	83 53.3	+02.5	84 52.5	+02.4	01
02	95 58.4	+02.4	96 57.5	+02.5	97 56.6	+02.5	98 55.8	+02.4	99 54.9	+02.5	02
03	111 00.8	+02.5	111 60.0	+02.4	112 59.1	+02.5	113 58.2	+02.5	114 57.4	+02.4	03
04	126 03.3	+02.5	127 02.4	+02.5	128 01.6	+02.4	129 00.7	+02.5	129 59.8	+02.5	04
05	141 05.8	+02.4	142 04.9	+02.5	143 04.0	+02.5	144 03.2	+02.4	145 02.3	+02.5	05
06	156 08.2	+02.5	157 07.4	+02.4	158 06.5	+02.5	159 05.6	+02.5	160 04.8	+02.4	06
07	171 10.7	+02.4	172 09.8	+02.5	173 09.0	+02.4	174 08.1	+02.5	175 07.2	+02.5	07
08	186 13.1	+02.5	187 12.3	+02.5	188 11.4	+02.5	189 10.6	+02.4	190 09.7	+02.5	08
09	201 15.6	+02.5	202 14.8	+02.4	203 13.9	+02.5	204 13.0	+02.5	205 12.2	+02.4	09
10	216 18.1	+02.4	217 17.2	+02.5	218 16.4	+02.4	219 15.5	+02.5	220 14.6	+02.5	10
11	231 20.5	+02.5	232 19.7	+02.4	233 18.8	+02.5	234 18.0	+02.4	235 17.1	+02.5	11
12	246 23.0	+02.5	247 22.1	+02.5	248 21.3	+02.4	249 20.4	+02.5	250 19.6	+02.4	12
13	261 25.5	+02.4	262 24.6	+02.5	263 23.7	+02.5	264 22.9	+02.5	265 22.0	+02.5	13
14	276 27.9	+02.5	277 27.1	+02.4	278 26.2	+02.5	279 25.4	+02.4	280 24.5	+02.5	14
15	291 30.4	+02.5	292 29.5	+02.5	293 28.7	+02.4	294 27.8	+02.5	295 27.0	+02.4	15
16	306 32.9	+02.4	307 32.0	+02.5	308 31.1	+02.5	309 30.3	+02.4	310 29.4	+02.5	16
17	321 35.3	+02.5	322 34.5	+02.4	323 33.6	+02.5	324 32.7	+02.5	325 31.9	+02.4	17
18	336 37.8	+02.5	337 36.9	+02.5	338 36.1	+02.4	339 35.2	+02.5	340 34.3	+02.5	18
19	351 40.3	+02.4	352 39.4	+02.5	353 38.5	+02.5	354 37.7	+02.4	355 36.8	+02.5	19
20	6 42.7	+02.5	7 41.9	+02.4	8 41.0	+02.5	9 40.1	+02.5	10 39.3	+02.4	20
21	21 45.2	+02.4	22 44.3	+02.5	23 43.5	+02.4	24 42.6	+02.5	25 41.7	+02.5	21
22	36 47.6	+02.5	37 46.8	+02.5	38 45.9	+02.5	39 45.1	+02.4	40 44.2	+02.5	22
23	51 50.1	+02.5	52 49.3	+02.4	53 48.4	+02.5	54 47.5	+02.5	55 46.7	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2
Ankaa	353 08.8	S 42 11.0
Schedir	349 32.7	N 56 40.0
Diphda	348 49.0	S 17 51.8
Achernar	335 21.1	S 57 07.4
Hamal	327 53.0	N 23 34.4
Polaris	314 25.3	N 89 21.7
Acamar	315 12.7	S 40 12.9
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.6
Aldebaran	290 41.3	N 16 33.4
Capella	280 24.1	N 46 01.4
Rigel	281 05.2	S 08 10.5
Bellatrix	278 24.4	N 06 22.3
Elnath	278 03.7	N 28 37.7
Alnilam	275 39.2	S 01 11.2
Betelgeuze	270 53.7	N 07 24.7
Canopus	263 52.7	S 52 42.3
Sirius	258 27.3	S 16 44.3
Adhara	255 06.9	S 28 60.0
Castor	245 59.0	N 31 50.3
Procyon	244 52.2	N 05 10.4
Pollux	243 18.9	N 27 58.2
Avior	234 15.1	S 59 34.6
Suhail	222 47.4	S 43 31.2
Miaplacidus	221 38.1	S 69 48.3
Alphard	217 49.4	S 08 45.3
Regulus	207 36.2	N 11 51.4
Dubhe	193 43.2	N 61 37.5
Denebola	182 26.7	N 14 26.7

	SHA ° ′	Dec ° ′
Gienah	175 45.5	S 17 39.9
Acrux	173 02.4	S 63 13.2
Gacrux	171 54.0	S 57 14.0
Alioth	166 15.0	N 55 50.0
Spica	158 24.4	S 11 16.7
Alkaid	152 53.8	N 49 11.9
Hadar	148 39.1	S 60 28.7
Menkent	147 59.8	S 36 28.4
Arcturus	145 49.5	N 19 04.6
Rigel Kentaurus	139 40.7	S 60 55.7
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.9	N 74 03.6
Alphecca	126 05.7	N 26 38.3
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.1
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.6	N 12 32.8
Etamin	90 43.5	N 51 29.3
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.9	N 38 48.3
Nunki	75 50.3	S 26 16.1
Albireo	67 05.8	N 28 00.6
Altair	62 02.1	N 08 55.6
Peacock	53 08.8	S 56 39.9
Deneb	49 27.2	N 45 21.9
Enif	33 40.6	N 09 58.8
Alnair	27 35.2	S 46 51.2
Formalhaut	15 16.6	S 29 30.2
Markab	13 31.6	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 316 of 365 November 12 GHA	ddGHA	day 317 of 365 November 13 GHA	ddGHA	day 318 of 365 November 14 GHA	ddGHA	day 319 of 365 November 15 GHA	ddGHA	day 320 of 365 November 16 GHA	ddGHA	UT
	° ′	′	° ′	′	° ′	′	° ′	′	° ′	′	
00	51 06.3	+02.5	52 05.5	+02.4	53 04.6	+02.5	54 03.8	+02.4	55 02.9	+02.5	00
01	66 08.8	+02.5	67 07.9	+02.5	68 07.1	+02.4	69 06.2	+02.5	70 05.4	+02.4	01
02	81 11.3	+02.4	82 10.4	+02.5	83 09.5	+02.5	84 08.7	+02.5	85 07.8	+02.5	02
03	96 13.7	+02.5	97 12.9	+02.4	98 12.0	+02.5	99 11.2	+02.4	100 10.3	+02.5	03
04	111 16.2	+02.5	112 15.3	+02.5	113 14.5	+02.4	114 13.6	+02.5	115 12.8	+02.4	04
05	126 18.7	+02.4	127 17.8	+02.5	128 16.9	+02.5	129 16.1	+02.4	130 15.2	+02.5	05
06	141 21.1	+02.5	142 20.3	+02.4	143 19.4	+02.5	144 18.5	+02.5	145 17.7	+02.4	06
07	156 23.6	+02.5	157 22.7	+02.5	158 21.9	+02.4	159 21.0	+02.5	160 20.1	+02.5	07
08	171 26.1	+02.4	172 25.2	+02.5	173 24.3	+02.5	174 23.5	+02.4	175 22.6	+02.5	08
09	186 28.5	+02.5	187 27.7	+02.4	188 26.8	+02.5	189 25.9	+02.5	190 25.1	+02.4	09
10	201 31.0	+02.4	202 30.1	+02.5	203 29.3	+02.4	204 28.4	+02.5	205 27.5	+02.5	10
11	216 33.4	+02.5	217 32.6	+02.5	218 31.7	+02.5	219 30.9	+02.4	220 30.0	+02.5	11
12	231 35.9	+02.5	232 35.1	+02.4	233 34.2	+02.5	234 33.3	+02.5	235 32.5	+02.4	12
13	246 38.4	+02.4	247 37.5	+02.5	248 36.7	+02.4	249 35.8	+02.5	250 34.9	+02.5	13
14	261 40.8	+02.5	262 40.0	+02.4	263 39.1	+02.5	264 38.3	+02.4	265 37.4	+02.5	14
15	276 43.3	+02.5	277 42.4	+02.5	278 41.6	+02.4	279 40.7	+02.5	280 39.9	+02.4	15
16	291 45.8	+02.4	292 44.9	+02.5	293 44.0	+02.5	294 43.2	+02.5	295 42.3	+02.5	16
17	306 48.2	+02.5	307 47.4	+02.4	308 46.5	+02.5	309 45.7	+02.4	310 44.8	+02.5	17
18	321 50.7	+02.5	322 49.8	+02.5	323 49.0	+02.4	324 48.1	+02.5	325 47.3	+02.4	18
19	336 53.2	+02.4	337 52.3	+02.5	338 51.4	+02.5	339 50.6	+02.4	340 49.7	+02.5	19
20	351 55.6	+02.5	352 54.8	+02.4	353 53.9	+02.5	354 53.0	+02.5	355 52.2	+02.4	20
21	6 58.1	+02.5	7 57.2	+02.5	8 56.4	+02.4	9 55.5	+02.5	10 54.6	+02.5	21
22	22 00.6	+02.4	22 59.7	+02.5	23 58.8	+02.5	24 58.0	+02.4	25 57.1	+02.5	22
23	37 03.0	+02.5	38 02.2	+02.4	39 01.3	+02.5	40 00.4	+02.5	40 59.6	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2
Ankaa	353 08.7	S 42 10.9
Schedir	349 32.7	N 56 39.9
Diphda	348 48.9	S 17 51.7
Achernar	335 21.1	S 57 07.4
Hamal	327 53.0	N 23 34.3
Polaris	314 25.5	N 89 21.6
Acamar	315 12.7	S 40 12.8
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.5
Aldebaran	290 41.4	N 16 33.4
Capella	280 24.2	N 46 01.3
Rigel	281 05.3	S 08 10.4
Bellatrix	278 24.5	N 06 22.3
Elnath	278 03.8	N 28 37.6
Alnilam	275 39.3	S 01 11.2
Betelgeuze	270 53.8	N 07 24.7
Canopus	263 52.8	S 52 42.2
Sirius	258 27.4	S 16 44.2
Adhara	255 07.0	S 28 59.9
Castor	245 59.1	N 31 50.3
Procyon	244 52.4	N 05 10.4
Pollux	243 19.0	N 27 58.2
Avior	234 15.3	S 59 34.6
Suhail	222 47.6	S 43 31.1
Miaplacidus	221 38.4	S 69 48.3
Alphard	217 49.5	S 08 45.3
Regulus	207 36.3	N 11 51.4
Dubhe	193 43.4	N 61 37.5
Denebola	182 26.8	N 14 26.8

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 39.9
Acrux	173 02.6	S 63 13.2
Gacrux	171 54.1	S 57 14.1
Alioth	166 15.1	N 55 50.1
Spica	158 24.5	S 11 16.6
Alkaid	152 53.9	N 49 12.0
Hadar	148 39.2	S 60 28.8
Menkent	147 59.8	S 36 28.5
Arcturus	145 49.5	N 19 04.7
Rigel Kentaurus	139 40.8	S 60 55.8
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.9	N 74 03.7
Alphecca	126 05.7	N 26 38.4
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.1
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.6	N 12 32.8
Etamin	90 43.4	N 51 29.3
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.8	N 38 48.4
Nunki	75 50.2	S 26 16.1
Albireo	67 05.7	N 28 00.6
Altair	62 02.0	N 08 55.7
Peacock	53 08.7	S 56 39.9
Deneb	49 27.1	N 45 21.9
Enif	33 40.6	N 09 58.9
Alnair	27 35.2	S 46 51.2
Formalhaut	15 16.5	S 29 30.2
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2022 - First Point of Aries / Selected Stars

UT	day 321 of 365 November 17 GHA ° ′	ddGHA ′	day 322 of 365 November 18 GHA ° ′	ddGHA ′	day 323 of 365 November 19 GHA ° ′	ddGHA ′	day 324 of 365 November 20 GHA ° ′	ddGHA ′	day 325 of 365 November 21 GHA ° ′	ddGHA ′	UT
00	56 02.0	+02.5	57 01.2	+02.4	58 00.3	+02.5	58 59.5	+02.4	59 58.6	+02.5	00
01	71 04.5	+02.5	72 03.6	+02.5	73 02.8	+02.4	74 01.9	+02.5	75 01.1	+02.4	01
02	86 07.0	+02.4	87 06.1	+02.5	88 05.2	+02.5	89 04.4	+02.4	90 03.5	+02.5	02
03	101 09.4	+02.5	102 08.6	+02.4	103 07.7	+02.5	104 06.8	+02.5	105 06.0	+02.4	03
04	116 11.9	+02.5	117 11.0	+02.5	118 10.2	+02.4	119 09.3	+02.5	120 08.4	+02.5	04
05	131 14.4	+02.5	132 13.5	+02.5	133 12.6	+02.5	134 11.8	+02.4	135 10.9	+02.5	05
06	146 16.8	+02.5	147 16.0	+02.4	148 15.1	+02.5	149 14.2	+02.5	150 13.4	+02.4	06
07	161 19.3	+02.5	162 18.4	+02.5	163 17.6	+02.4	164 16.7	+02.5	165 15.8	+02.5	07
08	176 21.8	+02.4	177 20.9	+02.5	178 20.0	+02.5	179 19.2	+02.4	180 18.3	+02.5	08
09	191 24.2	+02.5	192 23.4	+02.4	193 22.5	+02.5	194 21.6	+02.5	195 20.8	+02.4	09
10	206 26.7	+02.4	207 25.8	+02.5	208 25.0	+02.4	209 24.1	+02.5	210 23.2	+02.5	10
11	221 29.1	+02.5	222 28.3	+02.4	223 27.4	+02.5	224 26.6	+02.4	225 25.7	+02.5	11
12	236 31.6	+02.5	237 30.7	+02.5	238 29.9	+02.4	239 29.0	+02.5	240 28.2	+02.4	12
13	251 34.1	+02.4	252 33.2	+02.5	253 32.3	+02.5	254 31.5	+02.4	255 30.6	+02.5	13
14	266 36.5	+02.5	267 35.7	+02.4	268 34.8	+02.5	269 33.9	+02.5	270 33.1	+02.5	14
15	281 39.0	+02.5	282 38.1	+02.5	283 37.3	+02.4	284 36.4	+02.5	285 35.6	+02.4	15
16	296 41.5	+02.4	297 40.6	+02.5	298 39.7	+02.5	299 38.9	+02.4	300 38.0	+02.5	16
17	311 43.9	+02.5	312 43.1	+02.4	313 42.2	+02.5	314 41.3	+02.5	315 40.5	+02.4	17
18	326 46.4	+02.5	327 45.5	+02.5	328 44.7	+02.4	329 43.8	+02.5	330 42.9	+02.5	18
19	341 48.9	+02.4	342 48.0	+02.5	343 47.1	+02.5	344 46.3	+02.4	345 45.4	+02.5	19
20	356 51.3	+02.5	357 50.5	+02.4	358 49.6	+02.5	359 48.7	+02.5	0 47.9	+02.4	20
21	11 53.8	+02.4	12 52.9	+02.5	13 52.1	+02.4	14 51.2	+02.5	15 50.3	+02.5	21
22	26 56.2	+02.5	27 55.4	+02.5	28 54.5	+02.5	29 53.7	+02.4	30 52.8	+02.5	22
23	41 58.7	+02.5	42 57.9	+02.4	43 57.0	+02.5	44 56.1	+02.5	45 55.3	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2
Ankaa	353 08.7	S 42 11.0
Schedir	349 32.7	N 56 39.9
Diphda	348 48.9	S 17 51.8
Achernar	335 21.1	S 57 07.4
Hamal	327 53.0	N 23 34.3
Polaris	314 25.3	N 89 21.7
Acamar	315 12.7	S 40 12.8
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.6
Aldebaran	290 41.4	N 16 33.4
Capella	280 24.1	N 46 01.3
Rigel	281 05.3	S 08 10.4
Bellatrix	278 24.5	N 06 22.3
Elnath	278 03.8	N 28 37.7
Alnilam	275 39.3	S 01 11.2
Betelgeuze	270 53.8	N 07 24.7
Canopus	263 52.8	S 52 42.2
Sirius	258 27.4	S 16 44.2
Adhara	255 07.0	S 28 59.9
Castor	245 59.1	N 31 50.3
Procyon	244 52.3	N 05 10.4
Pollux	243 19.0	N 27 58.2
Avior	234 15.2	S 59 34.6
Suhail	222 47.5	S 43 31.1
Miaplacidus	221 38.3	S 69 48.3
Alphard	217 49.5	S 08 45.3
Regulus	207 36.3	N 11 51.4
Dubhe	193 43.3	N 61 37.5
Denebola	182 26.8	N 14 26.8

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 39.9
Acrux	173 02.6	S 63 13.2
Gacrux	171 54.1	S 57 14.0
Alioth	166 15.1	N 55 50.1
Spica	158 24.5	S 11 16.6
Alkaid	152 53.8	N 49 11.9
Hadar	148 39.1	S 60 28.7
Menkent	147 59.8	S 36 28.5
Arcturus	145 49.5	N 19 04.6
Rigel Kentaurus	139 40.8	S 60 55.8
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.9	N 74 03.6
Alphecca	126 05.7	N 26 38.4
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.1
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.6	N 12 32.8
Etamin	90 43.5	N 51 29.3
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.8	N 38 48.3
Nunki	75 50.2	S 26 16.1
Albireo	67 05.7	N 28 00.6
Altair	62 02.1	N 08 55.7
Peacock	53 08.8	S 56 39.9
Deneb	49 27.2	N 45 21.9
Enif	33 40.6	N 09 58.9
Alnair	27 35.2	S 46 51.2
Formalhaut	15 16.5	S 29 30.2
Markab	13 31.6	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 326 of 365 November 22 GHA ° ′	ddGHA ′	day 327 of 365 November 23 GHA ° ′	ddGHA ′	day 328 of 365 November 24 GHA ° ′	ddGHA ′	day 329 of 365 November 25 GHA ° ′	ddGHA ′	day 330 of 365 November 26 GHA ° ′	ddGHA ′	UT
00	60 57.7	+02.5	61 56.9	+02.4	62 56.0	+02.5	63 55.1	+02.5	64 54.3	+02.5	00
01	76 00.2	+02.5	76 59.3	+02.5	77 58.5	+02.4	78 57.6	+02.5	79 56.8	+02.4	01
02	91 02.7	+02.4	92 01.8	+02.5	93 00.9	+02.5	94 00.1	+02.4	94 59.2	+02.5	02
03	106 05.1	+02.5	107 04.3	+02.4	108 03.4	+02.5	109 02.5	+02.5	110 01.7	+02.4	03
04	121 07.6	+02.4	122 06.7	+02.5	123 05.9	+02.4	124 05.0	+02.5	125 04.1	+02.5	04
05	136 10.0	+02.5	137 09.2	+02.5	138 08.3	+02.5	139 07.5	+02.4	140 06.6	+02.5	05
06	151 12.5	+02.5	152 11.7	+02.4	153 10.8	+02.5	154 09.9	+02.5	155 09.1	+02.4	06
07	166 15.0	+02.4	167 14.1	+02.5	168 13.3	+02.4	169 12.4	+02.5	170 11.5	+02.5	07
08	181 17.4	+02.5	182 16.6	+02.4	183 15.7	+02.5	184 14.9	+02.4	185 14.0	+02.5	08
09	196 19.9	+02.5	197 19.0	+02.5	198 18.2	+02.4	199 17.3	+02.5	200 16.5	+02.4	09
10	211 22.4	+02.4	212 21.5	+02.5	213 20.6	+02.5	214 19.8	+02.5	215 18.9	+02.5	10
11	226 24.8	+02.5	227 24.0	+02.4	228 23.1	+02.5	229 22.3	+02.4	230 21.4	+02.5	11
12	241 27.3	+02.5	242 26.4	+02.5	243 25.6	+02.4	244 24.7	+02.5	245 23.9	+02.4	12
13	256 29.8	+02.4	257 28.9	+02.5	258 28.0	+02.5	259 27.2	+02.4	260 26.3	+02.5	13
14	271 32.2	+02.5	272 31.4	+02.4	273 30.5	+02.5	274 29.6	+02.5	275 28.8	+02.5	14
15	286 34.7	+02.5	287 33.8	+02.5	288 33.0	+02.4	289 32.1	+02.5	290 31.3	+02.4	15
16	301 37.2	+02.4	302 36.3	+02.5	303 35.4	+02.5	304 34.6	+02.4	305 33.7	+02.5	16
17	316 39.6	+02.5	317 38.8	+02.4	318 37.9	+02.5	319 37.0	+02.5	320 36.2	+02.4	17
18	331 42.1	+02.4	332 41.2	+02.5	333 40.4	+02.4	334 39.5	+02.5	335 38.6	+02.5	18
19	346 44.5	+02.5	347 43.7	+02.5	348 42.8	+02.5	349 42.0	+02.4	350 41.1	+02.5	19
20	1 47.0	+02.5	2 46.2	+02.4	3 45.3	+02.5	4 44.4	+02.5	5 43.6	+02.4	20
21	16 49.5	+02.4	17 48.6	+02.5	18 47.8	+02.4	19 46.9	+02.5	20 46.0	+02.5	21
22	31 51.9	+02.5	32 51.1	+02.4	33 50.2	+02.5	34 49.4	+02.4	35 48.5	+02.5	22
23	46 54.4	+02.5	47 53.5	+02.5	48 52.7	+02.4	49 51.8	+02.5	50 51.0	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2
Ankaa	353 08.8	S 42 11.0
Schedir	349 32.7	N 56 40.0
Diphda	348 49.0	S 17 51.8
Achernar	335 21.1	S 57 07.4
Hamal	327 53.0	N 23 34.3
Polaris	314 25.5	N 89 21.7
Acamar	315 12.7	S 40 12.8
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.6
Aldebaran	290 41.4	N 16 33.4
Capella	280 24.1	N 46 01.4
Rigel	281 05.3	S 08 10.4
Bellatrix	278 24.5	N 06 22.3
Elnath	278 03.8	N 28 37.7
Alnilam	275 39.2	S 01 11.2
Betelgeuze	270 53.7	N 07 24.7
Canopus	263 52.7	S 52 42.2
Sirius	258 27.4	S 16 44.2
Adhara	255 07.0	S 28 60.0
Castor	245 59.0	N 31 50.3
Procyon	244 52.3	N 05 10.4
Pollux	243 18.9	N 27 58.2
Avior	234 15.2	S 59 34.6
Suhail	222 47.5	S 43 31.1
Miaplacidus	221 38.2	S 69 48.3
Alphard	217 49.5	S 08 45.3
Regulus	207 36.2	N 11 51.4
Dubhe	193 43.3	N 61 37.5
Denebola	182 26.8	N 14 26.8

	SHA ° ′	Dec ° ′
Gienah	175 45.6	S 17 39.9
Acrux	173 02.5	S 63 13.2
Gacrux	171 54.0	S 57 14.0
Alioth	166 15.1	N 55 50.0
Spica	158 24.4	S 11 16.6
Alkaid	152 53.8	N 49 11.9
Hadar	148 39.1	S 60 28.7
Menkent	147 59.8	S 36 28.4
Arcturus	145 49.5	N 19 04.6
Rigel Kentaurus	139 40.7	S 60 55.7
Zubenelgenubi	136 58.3	S 16 08.0
Kocab	137 20.9	N 74 03.6
Alphecca	126 05.7	N 26 38.4
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.1
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.6	N 12 32.8
Etamin	90 43.5	N 51 29.3
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.9	N 38 48.3
Nunki	75 50.3	S 26 16.1
Albireo	67 05.7	N 28 00.6
Altair	62 02.1	N 08 55.6
Peacock	53 08.8	S 56 39.9
Deneb	49 27.2	N 45 21.9
Enif	33 40.6	N 09 58.8
Alnair	27 35.2	S 46 51.2
Formalhaut	15 16.5	S 29 30.2
Markab	13 31.6	N 15 19.8

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UT	day 351 of 365 **December 17** GHA ° ′	ddGHA ′	day 352 of 365 **December 18** GHA ° ′	ddGHA ′	day 353 of 365 **December 19** GHA ° ′	ddGHA ′	day 354 of 365 **December 20** GHA ° ′	ddGHA ′	day 355 of 365 **December 21** GHA ° ′	ddGHA ′	UT
00	85 36.2	+02.5	86 35.4	+02.4	87 34.5	+02.5	88 33.6	+02.5	89 32.8	+02.4	00
01	100 38.7	+02.5	101 37.8	+02.5	102 37.0	+02.4	103 36.1	+02.5	104 35.2	+02.5	01
02	115 41.2	+02.4	116 40.3	+02.5	117 39.4	+02.5	118 38.6	+02.4	119 37.7	+02.5	02
03	130 43.6	+02.5	131 42.8	+02.4	132 41.9	+02.5	133 41.0	+02.5	134 40.2	+02.4	03
04	145 46.1	+02.4	146 45.2	+02.5	147 44.4	+02.4	148 43.5	+02.5	149 42.6	+02.5	04
05	160 48.5	+02.5	161 47.7	+02.4	162 46.8	+02.5	163 46.0	+02.4	164 45.1	+02.5	05
06	175 51.0	+02.5	176 50.1	+02.5	177 49.3	+02.4	178 48.4	+02.5	179 47.6	+02.4	06
07	190 53.5	+02.4	191 52.6	+02.5	192 51.7	+02.5	193 50.9	+02.5	194 50.0	+02.5	07
08	205 55.9	+02.5	206 55.1	+02.4	207 54.2	+02.5	208 53.4	+02.4	209 52.5	+02.5	08
09	220 58.4	+02.5	221 57.5	+02.5	222 56.7	+02.4	223 55.8	+02.5	224 55.0	+02.4	09
10	236 00.9	+02.4	237 00.0	+02.5	237 59.1	+02.5	238 58.3	+02.4	239 57.4	+02.5	10
11	251 03.3	+02.5	252 02.5	+02.4	253 01.6	+02.5	254 00.7	+02.5	254 59.9	+02.4	11
12	266 05.8	+02.5	267 04.9	+02.5	268 04.1	+02.4	269 03.2	+02.5	270 02.3	+02.5	12
13	281 08.3	+02.4	282 07.4	+02.5	283 06.5	+02.5	284 05.7	+02.4	285 04.8	+02.5	13
14	296 10.7	+02.5	297 09.9	+02.4	298 09.0	+02.5	299 08.1	+02.5	300 07.3	+02.4	14
15	311 13.2	+02.4	312 12.3	+02.5	313 11.5	+02.4	314 10.6	+02.5	315 09.7	+02.5	15
16	326 15.6	+02.5	327 14.8	+02.5	328 13.9	+02.5	329 13.1	+02.4	330 12.2	+02.5	16
17	341 18.1	+02.5	342 17.3	+02.4	343 16.4	+02.5	344 15.5	+02.5	345 14.7	+02.4	17
18	356 20.6	+02.4	357 19.7	+02.5	358 18.9	+02.4	359 18.0	+02.5	0 17.1	+02.5	18
19	11 23.0	+02.5	12 22.2	+02.4	13 21.3	+02.5	14 20.5	+02.4	15 19.6	+02.5	19
20	26 25.5	+02.5	27 24.6	+02.5	28 23.8	+02.4	29 22.9	+02.5	30 22.1	+02.4	20
21	41 28.0	+02.4	42 27.1	+02.5	43 26.2	+02.5	44 25.4	+02.4	45 24.5	+02.5	21
22	56 30.4	+02.5	57 29.6	+02.4	58 28.7	+02.5	59 27.8	+02.5	60 27.0	+02.5	22
23	71 32.9	+02.5	72 32.0	+02.5	73 31.2	+02.4	74 30.3	+02.5	75 29.5	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.6	N 29 13.2	Gienah	175 45.4	S 17 40.0
Ankaa	353 08.9	S 42 11.0	*Acrux*	173 02.1	S 63 13.2
Schedir	349 32.9	N 56 40.0	*Gacrux*	171 53.7	S 57 14.0
Diphda	348 49.0	S 17 51.8	*Alioth*	166 14.8	N 55 49.9
Achernar	335 21.2	S 57 07.5	Spica	158 24.3	S 11 16.7
Hamal	327 53.0	N 23 34.4	*Alkaid*	152 53.6	N 49 11.8
Polaris	314 28.6	N 89 21.8	*Hadar*	148 38.8	S 60 28.7
Acamar	315 12.7	S 40 12.9	*Menkent*	147 59.6	S 36 28.5
Menkar	314 07.7	N 04 10.8	Arcturus	145 49.3	N 19 04.5
Mirfak	308 30.3	N 49 56.7	*Rigel Kentaurus*	139 40.5	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 58.1	S 16 08.1
Capella	280 24.0	N 46 01.4	*Kocab*	137 20.7	N 74 03.5
Rigel	281 05.2	S 08 10.5	Alphecca	126 05.6	N 26 38.2
Bellatrix	278 24.4	N 06 22.2	Antares	112 18.4	S 26 28.9
Elnath	278 03.7	N 28 37.7	*Atria*	107 14.7	S 69 04.0
Alnilam	275 39.1	S 01 11.2	Sabik	102 05.1	S 15 45.2
Betelgeuze	270 53.6	N 07 24.7	*Shaula*	96 13.1	S 37 07.2
Canopus	263 52.6	S 52 42.4	Rasalhague	96 00.5	N 12 32.7
Sirius	258 27.2	S 16 44.3	*Etamin*	90 43.5	N 51 29.1
Adhara	255 06.8	S 29 00.1	*Kaus Australis*	83 35.2	S 34 22.4
Castor	245 58.8	N 31 50.3	*Vega*	80 34.9	N 38 48.2
Procyon	244 52.1	N 05 10.4	Nunki	75 50.3	S 26 16.1
Pollux	243 18.7	N 27 58.2	Albireo	67 05.8	N 28 00.5
Avior	234 14.9	S 59 34.7	Altair	62 02.1	N 08 55.6
Suhail	222 47.3	S 43 31.2	*Peacock*	53 08.9	S 56 39.8
Miaplacidus	221 37.8	S 69 48.4	*Deneb*	49 27.3	N 45 21.8
Alphard	217 49.2	S 08 45.4	Enif	33 40.7	N 09 58.8
Regulus	207 36.0	N 11 51.3	*Alnair*	27 35.3	S 46 51.2
Dubhe	193 42.9	N 61 37.4	Formalhaut	15 16.6	S 29 30.2
Denebola	182 26.6	N 14 26.7	Markab	13 31.7	N 15 19.8

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UT	day 336 of 365 **December 2** GHA ° ′	ddGHA ′	day 337 of 365 **December 3** GHA ° ′	ddGHA ′	day 338 of 365 **December 4** GHA ° ′	ddGHA ′	day 339 of 365 **December 5** GHA ° ′	ddGHA ′	day 340 of 365 **December 6** GHA ° ′	ddGHA ′	UT
00	70 49.1	+02.5	71 48.3	+02.4	72 47.4	+02.5	73 46.5	+02.5	74 45.7	+02.4	00
01	85 51.6	+02.5	86 50.7	+02.5	87 49.9	+02.4	88 49.0	+02.5	89 48.1	+02.5	01
02	100 54.1	+02.4	101 53.2	+02.5	102 52.3	+02.5	103 51.5	+02.4	104 50.6	+02.5	02
03	115 56.5	+02.5	116 55.7	+02.4	117 54.8	+02.5	118 53.9	+02.5	119 53.1	+02.4	03
04	130 59.0	+02.5	131 58.1	+02.5	132 57.3	+02.4	133 56.4	+02.5	134 55.5	+02.5	04
05	146 01.5	+02.4	147 00.6	+02.5	147 59.7	+02.5	148 58.9	+02.4	149 58.0	+02.5	05
06	161 03.9	+02.5	162 03.1	+02.4	163 02.2	+02.5	164 01.3	+02.5	165 00.5	+02.4	06
07	176 06.4	+02.4	177 05.5	+02.5	178 04.7	+02.4	179 03.8	+02.5	180 02.9	+02.5	07
08	191 08.8	+02.5	192 08.0	+02.4	193 07.1	+02.5	194 06.3	+02.4	195 05.4	+02.5	08
09	206 11.3	+02.5	207 10.4	+02.5	208 09.6	+02.4	209 08.7	+02.5	210 07.9	+02.4	09
10	221 13.8	+02.4	222 12.9	+02.5	223 12.0	+02.5	224 11.2	+02.5	225 10.3	+02.5	10
11	236 16.2	+02.5	237 15.4	+02.4	238 14.5	+02.5	239 13.7	+02.4	240 12.8	+02.5	11
12	251 18.7	+02.5	252 17.8	+02.5	253 17.0	+02.4	254 16.1	+02.5	255 15.3	+02.4	12
13	266 21.2	+02.4	267 20.3	+02.5	268 19.4	+02.5	269 18.6	+02.4	270 17.7	+02.5	13
14	281 23.6	+02.5	282 22.8	+02.4	283 21.9	+02.5	284 21.0	+02.5	285 20.2	+02.4	14
15	296 26.1	+02.5	297 25.2	+02.5	298 24.4	+02.4	299 23.5	+02.5	300 22.6	+02.5	15
16	311 28.6	+02.4	312 27.7	+02.5	313 26.8	+02.5	314 26.0	+02.4	315 25.1	+02.5	16
17	326 31.0	+02.5	327 30.2	+02.4	328 29.3	+02.5	329 28.4	+02.5	330 27.6	+02.4	17
18	341 33.5	+02.4	342 32.6	+02.5	343 31.8	+02.4	344 30.9	+02.5	345 30.0	+02.5	18
19	356 35.9	+02.5	357 35.1	+02.5	358 34.2	+02.5	359 33.4	+02.4	0 32.5	+02.5	19
20	11 38.4	+02.5	12 37.6	+02.4	13 36.7	+02.5	14 35.8	+02.5	15 35.0	+02.4	20
21	26 40.9	+02.4	27 40.0	+02.5	28 39.2	+02.4	29 38.3	+02.5	30 37.4	+02.5	21
22	41 43.3	+02.5	42 42.5	+02.4	43 41.6	+02.5	44 40.8	+02.4	45 39.9	+02.5	22
23	56 45.8	+02.5	57 44.9	+02.5	58 44.1	+02.4	59 43.2	+02.5	60 42.4	+02.4	23

	SHA ° ′	Dec ° ′		SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2	Gienah	175 45.5	S 17 39.9
Ankaa	353 08.8	S 42 11.0	*Acrux*	173 02.4	S 63 13.2
Schedir	349 32.8	N 56 40.0	*Gacrux*	171 53.9	S 57 14.0
Diphda	348 49.0	S 17 51.8	*Alioth*	166 15.0	N 55 50.0
Achernar	335 21.1	S 57 07.5	Spica	158 24.4	S 11 16.7
Hamal	327 53.0	N 23 34.4	*Alkaid*	152 53.7	N 49 11.8
Polaris	314 26.0	N 89 21.8	*Hadar*	148 39.0	S 60 28.7
Acamar	315 12.7	S 40 12.9	*Menkent*	147 59.7	S 36 28.4
Menkar	314 07.7	N 04 10.8	Arcturus	145 49.4	N 19 04.6
Mirfak	308 30.3	N 49 56.6	*Rigel Kentaurus*	139 40.6	S 60 55.7
Aldebaran	290 41.3	N 16 33.4	Zubenelgenubi	136 58.2	S 16 08.0
Capella	280 24.0	N 46 01.4	*Kocab*	137 20.8	N 74 03.5
Rigel	281 05.2	S 08 10.5	Alphecca	126 05.6	N 26 38.3
Bellatrix	278 24.4	N 06 22.3	Antares	112 18.5	S 26 28.9
Elnath	278 03.7	N 28 37.7	*Atria*	107 14.8	S 69 04.0
Alnilam	275 39.2	S 01 11.2	Sabik	102 05.2	S 15 45.2
Betelgeuze	270 53.7	N 07 24.7	*Shaula*	96 13.2	S 37 07.2
Canopus	263 52.7	S 52 42.3	Rasalhague	96 00.6	N 12 32.7
Sirius	258 27.3	S 16 44.3	*Etamin*	90 43.5	N 51 29.2
Adhara	255 06.9	S 29 00.0	*Kaus Australis*	83 35.2	S 34 22.4
Castor	245 58.9	N 31 50.3	*Vega*	80 34.9	N 38 48.3
Procyon	244 52.2	N 05 10.4	Nunki	75 50.3	S 26 16.1
Pollux	243 18.8	N 27 58.2	Albireo	67 05.8	N 28 00.6
Avior	234 15.0	S 59 34.7	Altair	62 02.1	N 08 55.6
Suhail	222 47.4	S 43 31.2	*Peacock*	53 08.9	S 56 39.9
Miaplacidus	221 38.1	S 69 48.3	*Deneb*	49 27.2	N 45 21.9
Alphard	217 49.4	S 08 45.3	Enif	33 40.6	N 09 58.8
Regulus	207 36.2	N 11 51.4	*Alnair*	27 35.3	S 46 51.2
Dubhe	193 43.1	N 61 37.4	Formalhaut	15 16.6	S 29 30.2
Denebola	182 26.7	N 14 26.7	Markab	13 31.6	N 15 19.8

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UT	day 341 of 365 **December 7** GHA ° ′	ddGHA ′	day 342 of 365 **December 8** GHA ° ′	ddGHA ′	day 343 of 365 **December 9** GHA ° ′	ddGHA ′	day 344 of 365 **December 10** GHA ° ′	ddGHA ′	day 345 of 365 **December 11** GHA ° ′	ddGHA ′	UT
00	75 44.8	+02.5	76 44.0	+02.4	77 43.1	+02.5	78 42.2	+02.5	79 41.4	+02.5	00
01	90 47.3	+02.5	91 46.4	+02.5	92 45.6	+02.4	93 44.7	+02.5	94 43.9	+02.4	01
02	105 49.8	+02.4	106 48.9	+02.5	107 48.0	+02.5	108 47.2	+02.4	109 46.3	+02.5	02
03	120 52.2	+02.5	121 51.4	+02.4	122 50.5	+02.5	123 49.6	+02.5	124 48.8	+02.4	03
04	135 54.7	+02.4	136 53.8	+02.5	137 53.0	+02.4	138 52.1	+02.5	139 51.2	+02.5	04
05	150 57.1	+02.5	151 56.3	+02.4	152 55.4	+02.5	153 54.6	+02.4	154 53.7	+02.5	05
06	165 59.6	+02.5	166 58.7	+02.5	167 57.9	+02.5	168 57.0	+02.5	169 56.2	+02.4	06
07	181 02.1	+02.4	182 01.2	+02.5	183 00.4	+02.4	183 59.5	+02.5	184 58.6	+02.5	07
08	196 04.5	+02.5	197 03.7	+02.4	198 02.8	+02.5	199 02.0	+02.4	200 01.1	+02.5	08
09	211 07.0	+02.5	212 06.1	+02.5	213 05.3	+02.4	214 04.4	+02.5	215 03.6	+02.4	09
10	226 09.5	+02.4	227 08.6	+02.5	228 07.7	+02.5	229 06.9	+02.5	230 06.0	+02.5	10
11	241 11.9	+02.5	242 11.1	+02.4	243 10.2	+02.5	244 09.4	+02.4	245 08.5	+02.5	11
12	256 14.4	+02.5	257 13.5	+02.5	258 12.7	+02.4	259 11.8	+02.5	260 11.0	+02.4	12
13	271 16.9	+02.4	272 16.0	+02.5	273 15.1	+02.5	274 14.3	+02.4	275 13.4	+02.5	13
14	286 19.3	+02.5	287 18.5	+02.4	288 17.6	+02.5	289 16.7	+02.5	290 15.9	+02.5	14
15	301 21.8	+02.5	302 20.9	+02.5	303 20.1	+02.4	304 19.2	+02.5	305 18.4	+02.4	15
16	316 24.3	+02.4	317 23.4	+02.5	318 22.5	+02.5	319 21.7	+02.4	320 20.8	+02.5	16
17	331 26.7	+02.5	332 25.9	+02.4	333 25.0	+02.5	334 24.1	+02.5	335 23.3	+02.4	17
18	346 29.2	+02.4	347 28.3	+02.5	348 27.5	+02.4	349 26.6	+02.5	350 25.7	+02.5	18
19	1 31.6	+02.5	2 30.8	+02.4	3 29.9	+02.5	4 29.1	+02.4	5 28.2	+02.5	19
20	16 34.1	+02.5	17 33.2	+02.5	18 32.4	+02.5	19 31.5	+02.5	20 30.7	+02.4	20
21	31 36.6	+02.4	32 35.7	+02.5	33 34.9	+02.4	34 34.0	+02.5	35 33.1	+02.5	21
22	46 39.0	+02.5	47 38.2	+02.4	48 37.3	+02.5	49 36.5	+02.4	50 35.6	+02.5	22
23	61 41.5	+02.5	62 40.6	+02.5	63 39.8	+02.4	64 38.9	+02.5	65 38.1	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2
Ankaa	353 08.8	S 42 11.0
Schedir	349 32.8	N 56 40.0
Diphda	348 49.0	S 17 51.8
Achernar	335 21.2	S 57 07.5
Hamal	327 53.0	N 23 34.4
Polaris	314 26.6	N 89 21.8
Acamar	315 12.7	S 40 12.9
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.6
Aldebaran	290 41.3	N 16 33.4
Capella	280 24.0	N 46 01.4
Rigel	281 05.2	S 08 10.5
Bellatrix	278 24.4	N 06 22.2
Elnath	278 03.7	N 28 37.7
Alnilam	275 39.2	S 01 11.2
Betelgeuze	270 53.7	N 07 24.7
Canopus	263 52.7	S 52 42.3
Sirius	258 27.3	S 16 44.3
Adhara	255 06.9	S 29 00.0
Castor	245 58.9	N 31 50.3
Procyon	244 52.2	N 05 10.4
Pollux	243 18.8	N 27 58.2
Avior	234 15.0	S 59 34.7
Suhail	222 47.3	S 43 31.2
Miaplacidus	221 38.0	S 69 48.3
Alphard	217 49.3	S 08 45.3
Regulus	207 36.1	N 11 51.3
Dubhe	193 43.1	N 61 37.4
Denebola	182 26.6	N 14 26.7

	SHA ° ′	Dec ° ′
Gienah	175 45.4	S 17 40.0
Acrux	173 02.3	S 63 13.2
Gacrux	171 53.9	S 57 14.0
Alioth	166 14.9	N 55 50.0
Spica	158 24.3	S 11 16.7
Alkaid	152 53.7	N 49 11.8
Hadar	148 38.9	S 60 28.7
Menkent	147 59.7	S 36 28.4
Arcturus	145 49.4	N 19 04.5
Rigel Kentaurus	139 40.6	S 60 55.7
Zubenelgenubi	136 58.2	S 16 08.0
Kocab	137 20.8	N 74 03.5
Alphecca	126 05.6	N 26 38.3
Antares	112 18.5	S 26 28.9
Atria	107 14.8	S 69 04.0
Sabik	102 05.2	S 15 45.2
Shaula	96 13.2	S 37 07.2
Rasalhague	96 00.6	N 12 32.7
Etamin	90 43.5	N 51 29.2
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.9	N 38 48.3
Nunki	75 50.3	S 26 16.1
Albireo	67 05.8	N 28 00.5
Altair	62 02.1	N 08 55.6
Peacock	53 08.9	S 56 39.9
Deneb	49 27.3	N 45 21.9
Enif	33 40.6	N 09 58.8
Alnair	27 35.3	S 46 51.2
Formalhaut	15 16.6	S 29 30.2
Markab	13 31.7	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 346 of 365 **December 12** GHA ° ′	ddGHA ′	day 347 of 365 **December 13** GHA ° ′	ddGHA ′	day 348 of 365 **December 14** GHA ° ′	ddGHA ′	day 349 of 365 **December 15** GHA ° ′	ddGHA ′	day 350 of 365 **December 16** GHA ° ′	ddGHA ′	UT
00	80 40.5	+02.5	81 39.7	+02.4	82 38.8	+02.5	83 37.9	+02.5	84 37.1	+02.4	00
01	95 43.0	+02.5	96 42.1	+02.5	97 41.3	+02.4	98 40.4	+02.5	99 39.5	+02.5	01
02	110 45.5	+02.4	111 44.6	+02.5	112 43.7	+02.5	113 42.9	+02.4	114 42.0	+02.5	02
03	125 47.9	+02.5	126 47.1	+02.4	127 46.2	+02.5	128 45.3	+02.5	129 44.5	+02.4	03
04	140 50.4	+02.4	141 49.5	+02.5	142 48.7	+02.4	143 47.8	+02.5	144 46.9	+02.5	04
05	155 52.8	+02.5	156 52.0	+02.5	157 51.1	+02.5	158 50.3	+02.4	159 49.4	+02.5	05
06	170 55.3	+02.5	171 54.5	+02.4	172 53.6	+02.5	173 52.7	+02.5	174 51.9	+02.4	06
07	185 57.8	+02.4	186 56.9	+02.5	187 56.1	+02.4	188 55.2	+02.5	189 54.3	+02.5	07
08	201 00.2	+02.5	201 59.4	+02.4	202 58.5	+02.5	203 57.7	+02.4	204 56.8	+02.5	08
09	216 02.7	+02.5	217 01.8	+02.5	218 01.0	+02.4	219 00.1	+02.5	219 59.3	+02.4	09
10	231 05.2	+02.4	232 04.3	+02.5	233 03.4	+02.5	234 02.6	+02.5	235 01.7	+02.5	10
11	246 07.6	+02.5	247 06.8	+02.4	248 05.9	+02.5	249 05.1	+02.4	250 04.2	+02.5	11
12	261 10.1	+02.5	262 09.2	+02.5	263 08.4	+02.4	264 07.5	+02.5	265 06.7	+02.4	12
13	276 12.6	+02.4	277 11.7	+02.5	278 10.8	+02.5	279 10.0	+02.4	280 09.1	+02.5	13
14	291 15.0	+02.5	292 14.2	+02.4	293 13.3	+02.5	294 12.4	+02.5	295 11.6	+02.4	14
15	306 17.5	+02.5	307 16.6	+02.5	308 15.8	+02.4	309 14.9	+02.5	310 14.0	+02.5	15
16	321 20.0	+02.4	322 19.1	+02.5	323 18.2	+02.5	324 17.4	+02.4	325 16.5	+02.5	16
17	336 22.4	+02.5	337 21.6	+02.4	338 20.7	+02.5	339 19.8	+02.5	340 19.0	+02.4	17
18	351 24.9	+02.4	352 24.0	+02.5	353 23.2	+02.4	354 22.3	+02.5	355 21.4	+02.5	18
19	6 27.3	+02.5	7 26.5	+02.5	8 25.6	+02.5	9 24.8	+02.4	10 23.9	+02.5	19
20	21 29.8	+02.5	22 29.0	+02.4	23 28.1	+02.5	24 27.2	+02.5	25 26.4	+02.4	20
21	36 32.3	+02.4	37 31.4	+02.5	38 30.6	+02.4	39 29.7	+02.5	40 28.8	+02.5	21
22	51 34.7	+02.5	52 33.9	+02.4	53 33.0	+02.5	54 32.2	+02.4	55 31.3	+02.5	22
23	66 37.2	+02.5	67 36.3	+02.5	68 35.5	+02.4	69 34.6	+02.5	70 33.8	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.5	N 29 13.2
Ankaa	353 08.8	S 42 11.0
Schedir	349 32.8	N 56 40.0
Diphda	348 49.0	S 17 51.8
Achernar	335 21.2	S 57 07.5
Hamal	327 53.0	N 23 34.4
Polaris	314 27.2	N 89 21.8
Acamar	315 12.7	S 40 12.9
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.6
Aldebaran	290 41.3	N 16 33.4
Capella	280 24.0	N 46 01.4
Rigel	281 05.2	S 08 10.5
Bellatrix	278 24.4	N 06 22.2
Elnath	278 03.7	N 28 37.7
Alnilam	275 39.1	S 01 11.2
Betelgeuze	270 53.6	N 07 24.7
Canopus	263 52.6	S 52 42.3
Sirius	258 27.2	S 16 44.3
Adhara	255 06.9	S 29 00.1
Castor	245 58.9	N 31 50.3
Procyon	244 52.1	N 05 10.4
Pollux	243 18.8	N 27 58.2
Avior	234 14.9	S 59 34.7
Suhail	222 47.3	S 43 31.2
Miaplacidus	221 37.9	S 69 48.4
Alphard	217 49.3	S 08 45.4
Regulus	207 36.1	N 11 51.3
Dubhe	193 43.0	N 61 37.4
Denebola	182 26.6	N 14 26.7

	SHA ° ′	Dec ° ′
Gienah	175 45.4	S 17 40.0
Acrux	173 02.2	S 63 13.2
Gacrux	171 53.8	S 57 14.0
Alioth	166 14.9	N 55 49.9
Spica	158 24.3	S 11 16.7
Alkaid	152 53.6	N 49 11.8
Hadar	148 38.9	S 60 28.7
Menkent	147 59.6	S 36 28.5
Arcturus	145 49.4	N 19 04.5
Rigel Kentaurus	139 40.5	S 60 55.7
Zubenelgenubi	136 58.2	S 16 08.0
Kocab	137 20.7	N 74 03.5
Alphecca	126 05.6	N 26 38.3
Antares	112 18.4	S 26 28.9
Atria	107 14.7	S 69 04.0
Sabik	102 05.1	S 15 45.2
Shaula	96 13.1	S 37 07.2
Rasalhague	96 00.5	N 12 32.7
Etamin	90 43.5	N 51 29.2
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.9	N 38 48.2
Nunki	75 50.3	S 26 16.1
Albireo	67 05.8	N 28 00.5
Altair	62 02.1	N 08 55.6
Peacock	53 08.9	S 56 39.9
Deneb	49 27.3	N 45 21.9
Enif	33 40.6	N 09 58.8
Alnair	27 35.3	S 46 51.2
Formalhaut	15 16.6	S 29 30.2
Markab	13 31.7	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 356 of 365 **December 22** GHA ° ′	ddGHA ′	day 357 of 365 **December 23** GHA ° ′	ddGHA ′	day 358 of 365 **December 24** GHA ° ′	ddGHA ′	day 359 of 365 **December 25** GHA ° ′	ddGHA ′	day 360 of 365 **December 26** GHA ° ′	ddGHA ′	UT
00	90 31.9	+02.5	91 31.1	+02.4	92 30.2	+02.5	93 29.3	+02.5	94 28.5	+02.5	00
01	105 34.4	+02.4	106 33.5	+02.5	107 32.7	+02.4	108 31.8	+02.5	109 31.0	+02.4	01
02	120 36.8	+02.5	121 36.0	+02.5	122 35.1	+02.5	123 34.3	+02.4	124 33.4	+02.5	02
03	135 39.3	+02.5	136 38.5	+02.4	137 37.6	+02.5	138 36.7	+02.5	139 35.9	+02.4	03
04	150 41.8	+02.4	151 40.9	+02.5	152 40.1	+02.4	153 39.2	+02.5	154 38.3	+02.5	04
05	165 44.2	+02.5	166 43.4	+02.4	167 42.5	+02.5	168 41.7	+02.4	169 40.8	+02.5	05
06	180 46.7	+02.5	181 45.8	+02.5	182 45.0	+02.5	183 44.1	+02.5	184 43.3	+02.4	06
07	195 49.2	+02.4	196 48.3	+02.5	197 47.5	+02.4	198 46.6	+02.5	199 45.7	+02.5	07
08	210 51.6	+02.5	211 50.8	+02.4	212 49.9	+02.5	213 49.1	+02.4	214 48.2	+02.5	08
09	225 54.1	+02.5	226 53.2	+02.5	227 52.4	+02.4	228 51.5	+02.5	229 50.7	+02.4	09
10	240 56.6	+02.4	241 55.7	+02.5	242 54.8	+02.5	243 54.0	+02.5	244 53.1	+02.5	10
11	255 59.0	+02.5	256 58.2	+02.4	257 57.3	+02.5	258 56.5	+02.4	259 55.6	+02.5	11
12	271 01.5	+02.5	272 00.6	+02.5	272 59.8	+02.4	273 58.9	+02.5	274 58.1	+02.4	12
13	286 04.0	+02.4	287 03.1	+02.5	288 02.2	+02.5	289 01.4	+02.4	290 00.5	+02.5	13
14	301 06.4	+02.5	302 05.6	+02.4	303 04.7	+02.5	304 03.8	+02.5	305 03.0	+02.4	14
15	316 08.9	+02.4	317 08.0	+02.5	318 07.2	+02.4	319 06.3	+02.5	320 05.4	+02.5	15
16	331 11.3	+02.5	332 10.5	+02.5	333 09.6	+02.5	334 08.8	+02.4	335 07.9	+02.5	16
17	346 13.8	+02.5	347 13.0	+02.4	348 12.1	+02.5	349 11.2	+02.5	350 10.4	+02.4	17
18	1 16.3	+02.4	2 15.4	+02.5	3 14.6	+02.4	4 13.7	+02.5	5 12.8	+02.5	18
19	16 18.7	+02.5	17 17.9	+02.4	18 17.0	+02.5	19 16.2	+02.4	20 15.3	+02.5	19
20	31 21.2	+02.5	32 20.3	+02.5	33 19.5	+02.5	34 18.6	+02.5	35 17.8	+02.4	20
21	46 23.7	+02.4	47 22.8	+02.5	48 22.0	+02.4	49 21.1	+02.5	50 20.2	+02.5	21
22	61 26.1	+02.5	62 25.3	+02.4	63 24.4	+02.5	64 23.6	+02.4	65 22.7	+02.5	22
23	76 28.6	+02.5	77 27.7	+02.5	78 26.9	+02.4	79 26.0	+02.5	80 25.2	+02.4	23

	SHA ° ′	Dec ° ′
Alpheratz	357 36.6	N 29 13.2
Ankaa	353 08.9	S 42 11.0
Schedir	349 32.9	N 56 40.0
Diphda	348 49.0	S 17 51.8
Achernar	335 21.3	S 57 07.5
Hamal	327 53.0	N 23 34.4
Polaris	314 29.7	N 89 21.9
Acamar	315 12.7	S 40 13.0
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.7
Aldebaran	290 41.3	N 16 33.4
Capella	280 24.0	N 46 01.4
Rigel	281 05.2	S 08 10.5
Bellatrix	278 24.4	N 06 22.2
Elnath	278 03.6	N 28 37.7
Alnilam	275 39.1	S 01 11.2
Betelgeuze	270 53.6	N 07 24.7
Canopus	263 52.6	S 52 42.4
Sirius	258 27.2	S 16 44.4
Adhara	255 06.8	S 29 00.1
Castor	245 58.8	N 31 50.3
Procyon	244 52.1	N 05 10.4
Pollux	243 18.7	N 27 58.2
Avior	234 14.9	S 59 34.8
Suhail	222 47.2	S 43 31.3
Miaplacidus	221 37.8	S 69 48.4
Alphard	217 49.2	S 08 45.4
Regulus	207 36.0	N 11 51.3
Dubhe	193 42.8	N 61 37.4
Denebola	182 26.5	N 14 26.6

	SHA ° ′	Dec ° ′
Gienah	175 45.3	S 17 40.0
Acrux	173 02.1	S 63 13.2
Gacrux	171 53.7	S 57 14.1
Alioth	166 14.7	N 55 49.9
Spica	158 24.2	S 11 16.7
Alkaid	152 53.6	N 49 11.7
Hadar	148 38.8	S 60 28.7
Menkent	147 59.6	S 36 28.5
Arcturus	145 49.3	N 19 04.5
Rigel Kentaurus	139 40.4	S 60 55.7
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 20.6	N 74 03.4
Alphecca	126 05.6	N 26 38.2
Antares	112 18.4	S 26 28.9
Atria	107 14.6	S 69 04.0
Sabik	102 05.1	S 15 45.2
Shaula	96 13.1	S 37 07.2
Rasalhague	96 00.5	N 12 32.7
Etamin	90 43.5	N 51 29.1
Kaus Australis	83 35.2	S 34 22.4
Vega	80 34.9	N 38 48.2
Nunki	75 50.3	S 26 16.1
Albireo	67 05.8	N 28 00.5
Altair	62 02.1	N 08 55.6
Peacock	53 08.9	S 56 39.8
Deneb	49 27.3	N 45 21.8
Enif	33 40.7	N 09 58.8
Alnair	27 35.4	S 46 51.2
Formalhaut	15 16.6	S 29 30.2
Markab	13 31.7	N 15 19.8

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2022 - First Point of Aries / Selected Stars

UT	day 361 of 365 **December 27** GHA ° ′	ddGHA ′	day 362 of 365 **December 28** GHA ° ′	ddGHA ′	day 363 of 365 **December 29** GHA ° ′	ddGHA ′	day 364 of 365 **December 30** GHA ° ′	ddGHA ′	day 365 of 365 **December 31** GHA ° ′	ddGHA ′	UT
00	95 27.6	+02.5	96 26.8	+02.4	97 25.9	+02.5	98 25.0	+02.5	99 24.2	+02.4	**00**
01	110 30.1	+02.5	111 29.2	+02.5	112 28.4	+02.4	113 27.5	+02.5	114 26.6	+02.5	**01**
02	125 32.6	+02.4	126 31.7	+02.5	127 30.8	+02.5	128 30.0	+02.4	129 29.1	+02.5	**02**
03	140 35.0	+02.5	141 34.2	+02.4	142 33.3	+02.5	143 32.4	+02.5	144 31.6	+02.4	**03**
04	155 37.5	+02.4	156 36.6	+02.5	157 35.8	+02.4	158 34.9	+02.5	159 34.0	+02.5	**04**
05	170 39.9	+02.5	171 39.1	+02.5	172 38.2	+02.5	173 37.4	+02.4	174 36.5	+02.5	**05**
06	185 42.4	+02.5	186 41.6	+02.4	187 40.7	+02.5	188 39.8	+02.5	189 39.0	+02.4	**06**
07	200 44.9	+02.4	201 44.0	+02.5	202 43.2	+02.4	203 42.3	+02.5	204 41.4	+02.5	**07**
08	215 47.3	+02.5	216 46.5	+02.4	217 45.6	+02.5	218 44.8	+02.4	219 43.9	+02.5	**08**
09	230 49.8	+02.5	231 48.9	+02.5	232 48.1	+02.4	233 47.2	+02.5	234 46.4	+02.4	**09**
10	245 52.3	+02.4	246 51.4	+02.5	247 50.5	+02.5	248 49.7	+02.4	249 48.8	+02.5	**10**
11	260 54.7	+02.5	261 53.9	+02.4	262 53.0	+02.5	263 52.1	+02.5	264 51.3	+02.4	**11**
12	275 57.2	+02.5	276 56.3	+02.5	277 55.5	+02.4	278 54.6	+02.5	279 53.7	+02.5	**12**
13	290 59.7	+02.4	291 58.8	+02.5	292 57.9	+02.5	293 57.1	+02.4	294 56.2	+02.5	**13**
14	306 02.1	+02.5	307 01.3	+02.4	308 00.4	+02.5	308 59.5	+02.5	309 58.7	+02.4	**14**
15	321 04.6	+02.5	322 03.7	+02.5	323 02.9	+02.4	324 02.0	+02.5	325 01.1	+02.5	**15**
16	336 07.1	+02.4	337 06.2	+02.5	338 05.3	+02.5	339 04.5	+02.4	340 03.6	+02.5	**16**
17	351 09.5	+02.5	352 08.7	+02.4	353 07.8	+02.5	354 06.9	+02.5	355 06.1	+02.4	**17**
18	6 12.0	+02.4	7 11.1	+02.5	8 10.3	+02.4	9 09.4	+02.5	10 08.5	+02.5	**18**
19	21 14.4	+02.5	22 13.6	+02.4	23 12.7	+02.5	24 11.9	+02.4	25 11.0	+02.5	**19**
20	36 16.9	+02.5	37 16.0	+02.5	38 15.2	+02.4	39 14.3	+02.5	40 13.5	+02.4	**20**
21	51 19.4	+02.4	52 18.5	+02.5	53 17.6	+02.5	54 16.8	+02.5	55 15.9	+02.5	**21**
22	66 21.8	+02.5	67 21.0	+02.4	68 20.1	+02.5	69 19.3	+02.4	70 18.4	+02.5	**22**
23	81 24.3	+02.5	82 23.4	+02.5	83 22.6	+02.4	84 21.7	+02.5	85 20.9	+02.4	**23**

	SHA ° ′	Dec ° ′
Alpheratz	357 36.6	N 29 13.2
Ankaa	353 08.9	S 42 11.0
Schedir	349 32.9	N 56 40.0
Diphda	348 49.0	S 17 51.8
Achernar	335 21.3	S 57 07.5
Hamal	327 53.0	N 23 34.4
Polaris	314 31.0	N 89 21.9
Acamar	315 12.7	S 40 13.0
Menkar	314 07.7	N 04 10.8
Mirfak	308 30.3	N 49 56.7
Aldebaran	290 41.2	N 16 33.4
Capella	280 23.9	N 46 01.4
Rigel	281 05.2	S 08 10.5
Bellatrix	278 24.3	N 06 22.2
Elnath	278 03.6	N 28 37.7
Alnilam	275 39.1	S 01 11.3
Betelgeuze	270 53.6	N 07 24.7
Canopus	263 52.6	S 52 42.4
Sirius	258 27.2	S 16 44.4
Adhara	255 06.8	S 29 00.1
Castor	245 58.8	N 31 50.3
Procyon	244 52.0	N 05 10.3
Pollux	243 18.7	N 27 58.2
Avior	234 14.8	S 59 34.8
Suhail	222 47.2	S 43 31.3
Miaplacidus	221 37.7	S 69 48.4
Alphard	217 49.2	S 08 45.4
Regulus	207 35.9	N 11 51.3
Dubhe	193 42.8	N 61 37.4
Denebola	182 26.5	N 14 26.6

	SHA ° ′	Dec ° ′
Gienah	175 45.3	S 17 40.0
Acrux	173 02.0	S 63 13.2
Gacrux	171 53.6	S 57 14.1
Alioth	166 14.7	N 55 49.9
Spica	158 24.2	S 11 16.7
Alkaid	152 53.5	N 49 11.7
Hadar	148 38.7	S 60 28.7
Menkent	147 59.5	S 36 28.5
Arcturus	145 49.3	N 19 04.4
Rigel Kentaurus	139 40.3	S 60 55.7
Zubenelgenubi	136 58.1	S 16 08.1
Kocab	137 20.5	N 74 03.4
Alphecca	126 05.5	N 26 38.2
Antares	112 18.4	S 26 28.9
Atria	107 14.5	S 69 03.9
Sabik	102 05.1	S 15 45.2
Shaula	96 13.1	S 37 07.2
Rasalhague	96 00.5	N 12 32.7
Etamin	90 43.5	N 51 29.1
Kaus Australis	83 35.1	S 34 22.4
Vega	80 34.9	N 38 48.2
Nunki	75 50.2	S 26 16.1
Albireo	67 05.8	N 28 00.5
Altair	62 02.1	N 08 55.6
Peacock	53 08.9	S 56 39.8
Deneb	49 27.3	N 45 21.8
Enif	33 40.7	N 09 58.8
Alnair	27 35.4	S 46 51.2
Formalhaut	15 16.6	S 29 30.2
Markab	13 31.7	N 15 19.8

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Polaris (Pole Star) Tables, 2022

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 31.7	0 27.4	0 24.1	0 21.8	0 20.6	0 20.6	0 21.8	0 24.1	0 27.5	0 31.8	0 36.9	0 42.7
1	0 31.3	0 27.1	0 23.8	0 21.6	0 20.6	0 20.7	0 22.0	0 24.4	0 27.9	0 32.3	0 37.5	0 43.4
2	0 30.8	0 26.7	0 23.5	0 21.5	0 20.5	0 20.8	0 22.2	0 24.7	0 28.3	0 32.8	0 38.0	0 44.0
3	0 30.4	0 26.3	0 23.3	0 21.3	0 20.5	0 20.9	0 22.4	0 25.0	0 28.7	0 33.3	0 38.6	0 44.6
4	0 29.9	0 26.0	0 23.0	0 21.2	0 20.5	0 21.0	0 22.6	0 25.3	0 29.1	0 33.8	0 39.2	0 45.2
5	0 29.5	0 25.6	0 22.8	0 21.1	0 20.5	0 21.1	0 22.8	0 25.7	0 29.5	0 34.3	0 39.8	0 45.9
6	0 29.1	0 25.3	0 22.6	0 21.0	0 20.5	0 21.2	0 23.1	0 26.0	0 30.0	0 34.8	0 40.4	0 46.5
7	0 28.6	0 25.0	0 22.4	0 20.9	0 20.5	0 21.3	0 23.3	0 26.4	0 30.4	0 35.3	0 40.9	0 47.1
8	0 28.2	0 24.7	0 22.2	0 20.8	0 20.5	0 21.5	0 23.6	0 26.7	0 30.9	0 35.8	0 41.5	0 47.8
9	0 27.8	0 24.4	0 22.0	0 20.7	0 20.6	0 21.6	0 23.8	0 27.1	0 31.3	0 36.4	0 42.1	0 48.4
Lat.	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1	a1
	'	'	'	'	'	'	'	'	'	'	'	'
10	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8
20	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9
30	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	0.9
40	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0
45	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0
50	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.0
55	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1
60	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1
62	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.1	1.2
64	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.9	1.0	1.1	1.2
66	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.9	1.0	1.1	1.2
68	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.8	0.9	1.0	1.2	1.3
70	0.5	0.4	0.4	0.4	0.5	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	0.7	0.8	0.8	0.8	0.8	0.7
May	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8
Jun	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7
Jul	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6
Aug	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
Sep	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Oct	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Nov	0.7	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1
Dec	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.2	0.1
Lat.	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo	Zo
	°	°	°	°	°	°	°	°	°	°	°	°
10	0.4	0.3	0.2	0.1	360.0	359.9	359.8	359.7	359.6	359.5	359.4	359.4
20	0.4	0.3	0.2	0.1	360.0	359.9	359.8	359.7	359.6	359.5	359.4	359.4
30	0.5	0.4	0.3	0.1	360.0	359.9	359.7	359.6	359.5	359.4	359.4	359.3
40	0.5	0.4	0.3	0.1	360.0	359.9	359.7	359.6	359.5	359.4	359.3	359.2
45	0.6	0.5	0.3	0.2	360.0	359.8	359.7	359.5	359.4	359.3	359.2	359.1
50	0.6	0.5	0.3	0.2	360.0	359.8	359.7	359.5	359.4	359.2	359.1	359.1
55	0.7	0.6	0.4	0.2	360.0	359.8	359.6	359.4	359.3	359.1	359.0	358.9
60	0.8	0.7	0.4	0.2	360.0	359.8	359.6	359.3	359.2	359.0	358.9	358.8
62	0.9	0.7	0.5	0.2	360.0	359.8	359.5	359.3	359.1	358.9	358.8	358.7
64	1.0	0.7	0.5	0.3	360.0	359.7	359.5	359.3	359.0	358.9	358.7	358.6
66	1.0	0.8	0.6	0.3	360.0	359.7	359.4	359.2	359.0	358.8	358.6	358.5
68	1.1	0.9	0.6	0.3	360.0	359.7	359.4	359.1	358.9	358.7	358.5	358.4
70	1.2	1.0	0.7	0.3	360.0	359.7	359.3	359.0	358.8	358.5	358.3	358.2

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

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

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Polaris (Pole Star) Tables, 2022

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 49.1	0 55.7	1 02.4	1 09.0	1 15.3	1 21.1	1 26.3	1 30.6	1 33.9	1 36.2	1 37.4	1 37.4
1	0 49.7	0 56.3	1 03.1	1 09.6	1 15.9	1 21.7	1 26.7	1 30.9	1 34.2	1 36.4	1 37.4	1 37.3
2	0 50.4	0 57.0	1 03.7	1 10.3	1 16.5	1 22.2	1 27.2	1 31.3	1 34.5	1 36.5	1 37.5	1 37.2
3	0 51.0	0 57.7	1 04.4	1 10.9	1 17.1	1 22.7	1 27.6	1 31.7	1 34.7	1 36.7	1 37.5	1 37.1
4	0 51.7	0 58.4	1 05.1	1 11.6	1 17.7	1 23.3	1 28.1	1 32.0	1 35.0	1 36.8	1 37.5	1 37.0
5	0 52.3	0 59.0	1 05.7	1 12.2	1 18.3	1 23.8	1 28.5	1 32.4	1 35.2	1 36.9	1 37.5	1 36.9
6	0 53.0	0 59.7	1 06.4	1 12.8	1 18.9	1 24.3	1 28.9	1 32.7	1 35.4	1 37.0	1 37.5	1 36.8
7	0 53.7	1 00.4	1 07.0	1 13.5	1 19.4	1 24.8	1 29.4	1 33.0	1 35.6	1 37.1	1 37.5	1 36.7
8	0 54.3	1 01.0	1 07.7	1 14.1	1 20.0	1 25.3	1 29.8	1 33.3	1 35.8	1 37.2	1 37.5	1 36.5
9	0 55.0	1 01.7	1 08.3	1 14.7	1 20.6	1 25.8	1 30.2	1 33.6	1 36.0	1 37.3	1 37.4	1 36.4
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	0.5	0.5
20	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.5
30	0.9	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.5
40	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.5
45	1.0	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.5
50	1.1	1.1	1.1	1.1	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.5
55	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.5
60	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5
62	1.2	1.2	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5
64	1.3	1.3	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5
66	1.3	1.3	1.3	1.3	1.2	1.1	0.9	0.8	0.7	0.6	0.5	0.5
68	1.3	1.4	1.4	1.3	1.2	1.1	1.0	0.8	0.7	0.6	0.5	0.5
70	1.4	1.4	1.4	1.3	1.3	1.1	1.0	0.9	0.7	0.6	0.5	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	0.3	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	0.6	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	0.7	0.7	0.7	0.6	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	0.6	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	0.7	0.7	0.7
Nov	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	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	359.3	359.4	359.4	359.4	359.5	359.6	359.7	359.8	359.9	0.0	0.1
20	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.8	359.9	0.0	0.1
30	359.3	359.3	359.3	359.3	359.4	359.4	359.5	359.6	359.7	359.9	0.0	0.1
40	359.2	359.2	359.2	359.2	359.3	359.4	359.5	359.6	359.7	359.9	0.0	0.1
45	359.1	359.1	359.1	359.2	359.2	359.3	359.4	359.6	359.7	359.8	0.0	0.2
50	359.0	359.0	359.0	359.1	359.1	359.2	359.4	359.5	359.7	359.8	0.0	0.2
55	358.9	358.9	358.9	359.0	359.0	359.2	359.3	359.4	359.6	359.8	0.0	0.2
60	358.7	358.7	358.7	358.8	358.9	359.0	359.2	359.4	359.6	359.8	0.0	0.2
62	358.6	358.6	358.7	358.7	358.8	359.0	359.1	359.3	359.5	359.8	0.0	0.2
64	358.6	358.5	358.6	358.6	358.7	358.9	359.1	359.3	359.5	359.8	0.0	0.2
66	358.4	358.4	358.5	358.5	358.7	358.8	359.0	359.2	359.5	359.7	0.0	0.3
68	358.3	358.3	358.3	358.4	358.5	358.7	358.9	359.2	359.4	359.7	0.0	0.3
70	358.1	358.1	358.2	358.3	358.4	358.6	358.8	359.1	359.4	359.7	0.0	0.3

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

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

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Polaris (Pole Star) Tables, 2022

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 36.2	1 33.9	1 30.5	1 26.2	1 21.1	1 15.3	1 08.9	1 02.3	0 55.6	0 49.0	0 42.7	0 36.9
1	1 36.0	1 33.6	1 30.1	1 25.7	1 20.5	1 14.6	1 08.3	1 01.7	0 54.9	0 48.4	0 42.1	0 36.3
2	1 35.8	1 33.3	1 29.7	1 25.2	1 20.0	1 14.0	1 07.6	1 01.0	0 54.3	0 47.7	0 41.5	0 35.8
3	1 35.6	1 33.0	1 29.3	1 24.7	1 19.4	1 13.4	1 07.0	1 00.3	0 53.6	0 47.1	0 40.9	0 35.3
4	1 35.4	1 32.7	1 28.9	1 24.2	1 18.8	1 12.8	1 06.3	0 59.6	0 52.9	0 46.4	0 40.3	0 34.7
5	1 35.2	1 32.3	1 28.5	1 23.7	1 18.2	1 12.1	1 05.7	0 59.0	0 52.3	0 45.8	0 39.7	0 34.2
6	1 34.9	1 32.0	1 28.0	1 23.2	1 17.6	1 11.5	1 05.0	0 58.3	0 51.6	0 45.2	0 39.1	0 33.7
7	1 34.7	1 31.6	1 27.6	1 22.7	1 17.1	1 10.9	1 04.3	0 57.6	0 51.0	0 44.5	0 38.6	0 33.2
8	1 34.4	1 31.3	1 27.1	1 22.2	1 16.5	1 10.2	1 03.7	0 57.0	0 50.3	0 43.9	0 38.0	0 32.7
9	1 34.2	1 30.9	1 26.7	1 21.6	1 15.9	1 09.6	1 03.0	0 56.3	0 49.7	0 43.3	0 37.4	0 32.2
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	0.4	0.4	0.4	0.3	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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	0.8	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	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Feb	0.3	0.4	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	0.3	0.3	0.3	0.4	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	0.3	0.3	0.4
May	0.3	0.3	0.2	0.2	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	0.3	0.3	0.2	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	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5
Nov	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7	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	0.7	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	0.3	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	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.7
50	0.3	0.5	0.6	0.8	0.9	0.9	1.0	1.0	1.0	0.9	0.9	0.8
55	0.4	0.6	0.7	0.8	1.0	1.0	1.1	1.1	1.1	1.1	1.0	0.9
60	0.4	0.6	0.8	1.0	1.1	1.2	1.3	1.3	1.3	1.2	1.1	1.0
62	0.5	0.7	0.9	1.0	1.2	1.3	1.3	1.4	1.4	1.3	1.2	1.1
64	0.5	0.7	0.9	1.1	1.3	1.4	1.4	1.5	1.4	1.4	1.3	1.1
66	0.5	0.8	1.0	1.2	1.4	1.5	1.5	1.6	1.6	1.5	1.4	1.2
68	0.6	0.8	1.1	1.3	1.5	1.6	1.7	1.7	1.7	1.6	1.5	1.3
70	0.6	0.9	1.2	1.4	1.6	1.7	1.8	1.9	1.9	1.8	1.6	1.5

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

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

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