This sample of 314 stars, our own Sun included ("Sample S"), is found to lie in a region, around 3000 ly in radius, essentially confined to the sandwich-filler, or "thin disk," part of the overall galactic disk. Of the few Sample-S interlopers born outside the sandwich filling, and now temporarily passing through it on orbits oblique to the thin disk, the best known is α Boo. It is convenient here to use the term "Population P" for the ensemble of non-brown-dwarf, non-white-dwarf, stars in the much larger, 3000-ly radius, subdisk-of-the-thin-disk from which our (tiny) Sample S is drawn. This P-region is itself only a (tiny) fraction of the overall galactic thin-disk region, ~50,000 ly in radius.

Sample S, being formally defined by an apparent-magnitude cutoff as opposed to a distance cutoff, is itself far from statistically representative of Population P. (a) In P, the O stars are vanishingly rare. A tabulation by Glenn Ledrew, in *JRASC* 95 (2001), pp. 32ff, suggests an O-star frequency within P of just 0.00003%. By contrast, O stars comprise a hefty 2% of S. A similar overrepresentation occurs for the B, A, F, G, and K stars, with Ledrew's tabulation suggesting that these MK temperature types might have a respective frequency within P of 0.1%, 0.6%, 3.2%, 8.0%, and 12.9%. (A small caveat: unavoidable rounding errors make our various percentages, throughout this discussion, capable of adding up to 99% instead of 100%, or to 99.9% instead of 100.0%.) By contrast, these five types comprise 28%, 19%, 9%, 13%, and 21%, respectively, of S. (b) In P, something on the order of 76% or 78%–different authorities are perhaps mildly discrepant–must be M stars. (Ledrew's tabulation, in particular, suggests an M-star frequency of 78.2%.) Only a few of these (the Ledrew tabulation suggests 0.04%) have evolved to beyond the main-sequence stage of stable core hydrogen fusion. By contrast, the M stars comprise just 7% of S. All of them have evolved beyond the main sequence, having started their lives as types hotter than M or K.

The statistically anomalous character of S is further illustrated by the fact that in S, in each of the Big Six MK temperature types hotter than M, the stars that have ended stable core hydrogen fusion (and so have evolved out of Main Sequence MK luminosity class V into one of the brighter MK luminosity classes IV, III, II, or I) are in the numerical majority. In Ledrew's tabulation, the percentages of evolved stars in F, G, and K, as a percentage of the overall respective F, G, and K populations, are just 2.0%, 2.5%, and 3.8%. Consistently with this, the 1991 Gliese-Jahreiss catalogue of the nearest 1000 stars (containing, we admit, not only the local OBAFGKM VI, V, IV, III, II, and I stars, but also at least many of the local white dwarfs) assigns less than 1% of its population to MK luminosity classes IV, III, II, or I.

Sample S–so rich, we stress, in varieties of star statistically infrequent within Population P–harbours physical extremes. Although the extremes are for the most part not written into our table, they can be studied easily, from such sources as Prof. James Kaler's http://stars.astro.illinois.edu/sow/sowlist.html:

Around 58 of our 314 each radiate, across the full spectrum from X-ray through UV and optical to IR and radio, at least as much power as is radiated by 10,000 Suns. The most dramatic is ζ Ori, with a bolometric luminosity of 375,000 Suns–making ζ Ori notable not within S alone, but even within the overall Galaxy. Several others are not far behind, among them ζ Pup (360,000 Suns, suggests Kaler, as of 2008 July revising his earlier, circa-1999, suggestion of ~750,000 Suns). Just two stars in Sample S, nearby τ Cet and nearby α Cen B, radiate more feebly than our Sun, each at about 0.5 of the Sun's bolometric luminosity. – The principal determinant of stellar luminosity, for any given phase in stellar evolution, is mass, with even small variations in mass translating into large variations in energy output. The exceptional luminosities of ζ Ori and ζ Pup, in particular, are a consequence of their exceptionally high respective masses, 20 Msolar and 40 Msolar. (Kaler now suggests 40 Msolar for ζ Pup, while having previously suggested 60 Msolar. He additionally notes from the literature the lower suggested value of 22.5 Msolar . – Theory does predict, although our small Sample S does not manage to illustrate, the possibility of masses up to the Eddington stellar mass limit, somewhere above 100 Msolar , and even of some "super-Eddington" stars. Eddington's limit is by definition attained when luminosity rises to high as to make the outward radiation push, tending to tear a star apart, exceed the inward gravitational pull.)

Rotation periods in Sample S vary from far in excess of our Sun's to far short of our Sun's (which we may here take as a nominal 27 d; refined treatments of solar rotation provide for rotation-period variations both with solar latitude and with solar depth). Spectroscopy yields for γ Cep a period of 781 d, i.e., of 2.14 y. Kaler suggests that the respective rotation periods of α Hya and ε Crv could be as long as 2.4 y and 3.9 y. At the other extreme, Kaler suggests for ζ Aql A, α Aql, and ζ Lep, respectively, 16 h, at most 10 h, and around 6 h.

Radii (as distance from centre to outermost opaque layer, perpendicular to the axis of stellar rotation) are typically greater than the solar radius. Two notable instances of stellar expansion–in other words, of notably tenuous stellar atmosphere–are α Sco (with a radius of 3.4 AU, not far short of the Sun-Jupiter distance) and α Ori (with a radius of 4.1 AU or 4.6 AU from interferometry, or alternatively 3.1 AU or 3.4 AU from luminosity-temperature deductions). Results in these extreme cases depend strongly on the wavelength selected for evaluating opacity. – Observations within Population P do indicate, although our sample S does not necessarily succeed in illustrating, the possibility of still more extreme stellar radii, to values approaching ~10 AU.

The broad range of temperatures is reflected in the fact that all of the Big Seven temperature-type bins in the MK classification scheme are well occupied, however statistically skewed (as we have argued above) is the distribution in the MK Big Five luminosity-class bins (with 7 O stars, 89 B stars, 61 A stars, 28 F stars, 41 G stars, 66 K stars, and 22 M stars). At the MK temperature extremes are the hot ζ Pup (O5; 42,000 K) and the cool o [omicron] Cet (M5-10; a typical temperature for this variable is variously suggested as ~2000 K or ~3000 K).

Interesting spectral anomalies in Sample S include the sky's brightest Wolf-Rayet star (of exotic MK type W, rather than in the everyday gamut OBAFGKM), as one component in the γ2 Vel pair, and several Be, or emission-line, stars (marked in our table, and where appropriate accompanied by notations indicating "shell", or circumstellar ejecta disk aligned nearly edge-on with the observatory line of sight). Especially worth monitoring at the moment, both photometrically and (for possible Be behaviour) spectroscopically is δ Sco, a binary system stimulated into outburst by periastron passage in 2000 and 2011, and therefore perhaps due for another outburst around 2022.

We use the flags "+nP" (n = 1, 2, ... ) for companions of sub-stellar mass, such as have been found outside our solar system, in an accelerating tempo of discovery that has eventually reached even the tiny Sample S, from the 1990s onward. Such companions are typically planets, but could in principle also be brown dwarfs. We do not attempt here to define formally the difference between a planet and a brown-dwarf companion.

In a departure from our practice since 2017, we now give star names in all and only those cases in which star names are formally promulgated in the International Astronomical Union star-naming project, as launched in 2016 at https://www.iau.org/public/themes/naming_stars/. Readers requiring further information on names could start with the individual star descriptions in http://stars.astro.illinois.edu/sow/sowlist.html. Richard Hinckley Allen's 1899 book Star Names: Their Lore and Meaning has been much cited over the decades. More recent scholarship, with duly professional attention to Arabic philology, is, however, presented in Paul Kunitzsch and Tim Smart, Short Guide to Modern Star Names and their Derivations (Wiesbaden, 1986), and (by the same pair of authors) Dictionary of Modern Star Names: A Short Guide to 254 Star Names and their Derivations (Cambridge, MA, c2006).

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sun+8P | | | −26.75 | 0.63 | G2 V | | 4.8 | 8 lm | | | | | |
| α And | 0 09.3 | +29 12 | 2.07 | −0.04 | B9p IV: (HgMn) | 34 | −0.3 | 97 | 0.214 | 140 | −12 SB | | **Alpheratz** |
| β Cas | 0 10.2 | +59 15 | 2.28v | 0.38 | F2 III | 60 | 1.2 | 55 | 0.554 | 109 | +12 SB | var.: 2.25–2.31, 0.10 d | Caph |
| | | | | | | | | | | | | E(B-V)=0.00 | |
| γ Peg | 0 14.2 | +15 17 | 2.83v | −0.19 | B2 IV | 8 | −2.6 | 400 | 0.009 | 168 | +4 SB | var.: 2.78–2.89, 0.15 d | Algenib |
| | | | | | | | | | | | | E(B-V)=+0.01 | |
| β Hyi | 0 26.7 | −77 09 | 2.82 | 0.62 | G1 IV | 134.1 | 3.5 | 24.3 | 2.243 | 82 | +23 | | |
| α Phe | 0 27.2 | −42 12 | 2.40 | 1.08 | K0 IIIb | 38.5 | 0.3 | ~85 | 0.426 | 147 | +75 SB | | **Ankaa** |
| δ And A | 0 40.3 | +30 58 | 3.27 | 1.27 | K3 III | ~30.9 | 0.7 | 106 | 0.142 | 126 | −7 SB | | |
| α Cas | 0 41.6 | +56 38 | 2.24 | 1.17 | K0 IIIa | ~14.3 | −2.0 | 230 | 0.060 | 122 | −4 V? | | **Schedar** |
| β Cet | 0 44.5 | −17 53 | 2.04 | 1.02 | K0 III | ~33.9 | −0.3 | 96 | 0.235 | 82 | +13 V? | | **Diphda** |
| η Cas A | 0 50.2 | +57 55 | 3.46 | 0.59 | G0 V | 168 | 4.6 | 19.4 | 1.222 | 117 | +9 SB | B:7.51, K4 Ve, 12.9″, PA:62°→324°, 1779→2016 | |
| | | | | | | | | | | | | orbit 480 y | |
| γ Cas | 0 57.8 | +60 49 | 2.15v | −0.05 | B0 IVnpe (shell) | 5 | −4.2 | 600 | 0.026 | 98 | −7 SB | var.:1.6-3.0; B: 8.8, 2.1″, PA:255°→259°, 1888→2002 | |
| | | | | | | | | | | | | orbit > 1500 y | |
| | | | | | | | | | | | | first Be discovery (Secchi, 1866); outburst 1937 | |
| | | | | | | | | | | | | for background on Be phenomena and γ Cas, consult | |
| | | | | | | | | | | | | https://www.aavso.org/vsots_gammacas | |
| β Phe AB | 1 06.9 | −46 37 | 3.32 | 0.88 | G8 III | 16 | 0.3: | 150 | 0.088 | 293 | −1 | AB similar, 0.7″, PA:26°→84°, 1891→2016 | |
| | | | | | | | | | | | | orbit 168 y | |
| η Cet +2P | 1 09.5 | −10 05 | 3.46 | 1.16 | K1.5 III CN1 | 26.3 | 0.6 | 124 | 0.257 | 123 | +12V | | |
| β And | 1 10.8 | +35 43 | 2.07 | 1.58 | M0 IIIa | 17 | −1.8 | 200 | 0.209 | 123 | +3 V | | Mirach |
| δ Cas | 1 27.0 | +60 20 | 2.66v | 0.16 | A5 IV | 32.8 | 0.2 | 99 | 0.301 | 99 | +7 SB | ecl.? 2.68–2.76, 759 d | Ruchbah |
| | | | | | | | | | | | | E(B-V)=+0.27 | |
| γ Phe | 1 29.2 | −43 13 | 3.41v | 1.54 | K7 IIIa | 14 | −0.9 | 230 | 0.209 | 185 | +26 SB | irreg. var.: 3.39–3.49 | |
| α Eri | 1 38.4 | −57 09 | 0.45 | −0.16 | B3 Vnp (shell?) | 23 | −2.7 | 140 | 0.095 | 114 | +16 V | | **Achernar** |
| τ Cet | 1 44.9 | −15 50 | 3.49 | 0.73 | G8 V | ~274.0 | 5.7 | 11.9 | 1.921 | 296 | −16 V | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| α Tri | 1 54.1 | +29 40 | 3.42 | 0.49 | F6 IV | 52 | 2.0 | 63 | 0.234 | 177 | −13 SB | | Mothallah |
| β Ari | 1 55.7 | +20 54 | 2.64 | 0.16 | A4 V | 56 | 1.4 | 59 | 0.148 | 138 | −2 SB | | Sheratan |
| ε Cas | 1 55.7 | +63 46 | 3.35 | −0.15 | B3 IV:p (shell) | 8 | −2.2 | 400 | 0.037 | 121 | −8 V | | |
| α Hyi | 1 59.4 | −61 29 | 2.86 | 0.29 | F0n III–IV | 45 | 1.1 | 72 | 0.265 | 84 | +1 V | | |
| γ And A | 2 05.0 | +42 25 | 2.10 | 1.37 | K3 IIb | 9 | −3.1 | 400 | ~0.065 | ~139 | −12 SB | B: 5.4, B9 V, 9.8″; C: 6.2, A0 V; BC 0.2″ | Almach |
| | | | | | | | | | | | | BC orbit: 63.7 y | |
| α Ari +1P | 2 08.2 | +23 33 | 2.01 | 1.15 | K2 IIIab | ~49.6 | 0.5 | 66 | 0.240 | 128 | −14 SB | calcium weak? | **Hamal** |
| β Tri | 2 10.7 | +35 04 | 3.00 | 0.14 | A5 IV | 26 | 0.1 | 130 | 0.154 | 105 | +10 SB2 | | |
| ο Cet Aa | 2 20.3 | −2 54 | 6.47v | 0.97 | M5–10 IIIe | 11 | 1.7 | 300 | 0.238 | 178 | +64 V | LPV, 2–10; Ab(VZCet): WD, 10.4, 0.5″,~400y | Mira |
| γ Cet AB | 2 44.3 | +3 19 | 3.47 | 0.09 | A2 Va | 41 | 1.5 | 80 | 0.207 | 225 | −5 V | A: 3.57; B: 6.23, 2.0″, PA:283°→299°, 1825→2015 | |
| | | | | | | | | | | | | orbit ≥ 320 y | |
| α UMi A | 2 55.0 | +89 21 | 1.97v | 0.64 | F5–8 Ib | 7.5 | −3.6 | 430 | ~0.046 | ~105? | −17 SB | low-amp. Cep., 4.0 d; B: 9.1, F3 V, 18″(2013) | **Polaris** |
| | | | | | | | | | | | | amplitude range and period are varying, | |
| | | | | | | | | | | | | with pulsation mode and evoln. history controverted | |
| | | | | | | | | | | | | B has E(B-V)=0.0 | |
| θ Eri A | 2 59.0 | −40 14 | 3.28 | 0.17 | A5 IV | 30 | 0.5 | 100 | 0.057 | 293 | +12 SB2 | B: 4.35, A1 Va, 8.6″, PA:82°→91°, 1835→2013 | **Acamar** |
| α Cet | 3 03.2 | +4 10 | 2.54 | 1.63 | M2 III | 13 | −1.9 | 250 | 0.078 | 188 | −26 V | | **Menkar** |
| γ Per | 3 06.1 | +53 35 | 2.91 | 0.72 | G8 III + A2 V | 13 | −1.5 | 240 | 0.006 | 175 | +3 SB2 | composite spectrum; orbit 14.6 y, next eclipse 2019 | |
| | | | | | | | | | | | | eclipse duration < 2 weeks | |
| | | | | | | | | | | | | eclipse variation ~ threshold of naked-eye detection | |
| ρ Per | 3 06.4 | +38 55 | 3.32v | 1.53 | M4 II | 11 | −1.6 | 310 | 0.167 | 129 | +28 | semiregular var.: 3.3–4.0 | |
| β Per | 3 09.4 | +41 02 | 2.09v | 0.00 | B8 V + F: | 36 | −0.1 | 90 | 0.003 | 119 | +4 SB | ecl.: 2.12–3.39, 2.9 d; composite | Algol |
| | | | | | | | | | | | | E(B-V)=+0.03 | |
| α Per | 3 25.7 | +49 56 | 1.79 | 0.48 | F5 Ib | ~6.4 | −4.2 | 510 | 0.035 | 138 | −2 V | in open cluster | **Mirfak** |
| δ Eri | 3 44.1 | −9 42 | 3.52 | 0.92 | K0 IV | 111 | 3.7 | 29.5 | 0.749 | 353 | −6 | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| δ Per | 3 44.2 | +47 51 | 3.01 | −0.12 | B5 IIIn | 6 | −3.0 | 500 | 0.050 | 149 | +4 SB | | |
| | | | | | | | | | | | | E(B-V)=+0.04 | |
| γ Hyi | 3 47.0 | −74 11 | 3.26 | 1.59 | M2 III | 15.2 | −0.8 | ~214 | 0.126 | 24 | +16 | | |
| η Tau | 3 48.6 | +24 10 | 2.85 | −0.09 | B7 IIIn | 8 | −2.6 | 400 | 0.048 | 156 | +10 V? | in Pleiades | Alcyone |
| | | | | | | | | | | | | E(B-V)=+0.03 | |
| | | | | | | | | | | | | BSC5 : "rotationally unstable Be shell star" | |
| ζ Per A | 3 55.3 | +31 56 | 2.84 | 0.27 | B1 Ib | 4 | −4.0 | 800 | 0.011 | 150 | +20 SB | B: 9.16, B8 V, 12.9″, PA:205°→209°, 1824→2012 | |
| | | | | | | | | | | | | orbit ≥ 50,000 y | |
| | | | | | | | | | | | | E(B-V)=+0.33 (pronounced reddening) | |
| γ Eri | 3 58.9 | −13 27 | 2.97 | 1.59 | M1 IIIb | 16 | −1.0 | 200 | 0.129 | 151 | +62 | calcium, chromium weak | Zaurak |
| ε Per A | 3 59.1 | +40 04 | 2.90 | −0.20 | B0.5 IV | 5 | −3.6 | 600 | 0.028 | 149 | +1 SB2 | B: 7.39, B9.5 V, 8.7″, PA:10°→10°, 1821→2012 | |
| | | | | | | | | | | | | orbit≥ 16,000 y | |
| | | | | | | | | | | | | one of the most extreme spectr. variables | |
| | | | | | | | | | | | | (periods 2.27 h and 8.46 h) | |
| | | | | | | | | | | | | E(B-V)=+0.10 | |
| λ Tau A | 4 01.7 | +12 32 | 3.41v | −0.10 | B3 V | 7 | −2.4 | 480 | 0.017 | 209 | +18 SB2 | ecl.: 3.37–3.91, 4.0 d; B: A4 IV | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| α Ret A | 4 14.7 | −62 26 | 3.33 | 0.92 | G8 II–III | 20.2 | −0.1 | 162 | 0.065 | 40 | +36 SB? | | |
| ε Tau +1P | 4 29.7 | +19 13 | 3.53 | 1.01 | K0 III | 22.2 | 0.3 | 150 | 0.113 | 110 | +39 V? | in Hyades | Ain |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| $\theta^2$ Tau | 4 29.7 | +15 55 | 3.40 | 0.18 | A7 III | 22 | 0.1 | 150 | 0.112 | 104 | +40 SB | in Hyades | |
| α Dor AB | 4 34.4 | −55 00 | 3.30 | −0.08 | A0p V: (Si) | 19 | −0.3 | 169 | ~0.059 | ~79? | +26 | A: 3.8; B: 4.3, B9 IV; 0.3″ (2014); orbit 12 y | |
| α Tau A | 4 37.0 | +16 33 | 0.87v | 1.54 | K5 III | 49 | −0.7 | 67 | 0.199 | 161 | +54 SB | irregular var.: 0.75–0.95 | **Aldebaran** |
| | | | | | | | | | | | | foreground star, not true Hyades member | |
| | | | | | | | | | | | | BSC5 says“MgII emissions indicate | |
| | | | | | | | | | | | | a cooler shell surrounding the supergiant”, | |
| | | | | | | | | | | | | notes variable emission in Ca H and K lines | |
| $\pi^3$ Ori | 4 50.8 | +7 00 | 3.19 | 0.48 | F6 V | 124 | 3.7 | 26.3 | 0.464 | 89 | +24 SB2 | | |
| ι Aur | 4 58.2 | +33 12 | 2.69v | 1.49 | K3 II | 7 | −3.2 | 500 | 0.016 | 155 | +18 V | var.: 2.63-2.78 | |
| ε Aur A | 5 03.3 | +43 51 | 3.03v | 0.54 | F0Iab? + ~B5V | <2? | −8.0: | ~2000 | ~0.003 | n.a. | −3 SB | ecl.: 2.92–3.83, 9892 d (dim ~700d) | Almaaz |
| | | | | | | | | | | | | in place of lab, | |
| | | | | | | | | | | | | II-III is also suggested (Hoard et al, 2010); | |
| | | | | | | | | | | | | BSC5: “shell star”, “spectrum var. even outside | |
| | | | | | | | | | | | | eclipse”; for 2009-2011 AAVSO on ε Aur, consult | |
| | | | | | | | | | | | | http://www.citizensky.org | |
| ε Lep | 5 06.2 | −22 21 | 3.19 | 1.46 | K4 III | 15 | −0.9 | 210 | 0.076 | 164 | +1 | | |
| η Aur | 5 07.8 | +41 15 | 3.18 | −0.15 | B3 V | 13 | −1.2 | 240 | 0.075 | 155 | +7 V? | | |
| β Eri | 5 08.8 | −5 04 | 2.78 | 0.16 | A3 IVn | 36 | 0.6 | 89 | 0.112 | 228 | −9 | | Cursa |
| μ Lep | 5 13.8 | −16 11 | 3.29v | −0.11 | B9p IV: (HgMn) | 18 | −0.5 | 190 | 0.050 | 109 | +28 | var.: 2.97–3.41, 2 d | |
| β Ori A | 5 15.4 | −8 11 | 0.18 | −0.03 | B8 Ia | 4 | −6.9 | 900 | 0.001 | 69 | +21 SB | B: 6.8, B5 V, 9.5″(2014); C: 7.6; BC: 0.1″ | **Rigel** |
| | | | | | | | | | | | | A-BC orbit ≥ 25,000 y, BC orbit ~400 y | |
| | | | | | | | | | | | | E(B-V)=+0.00 | |
| α Aur Aa+Ab | 5 18.1 | +46 01 | 0.08 | 0.80 | G6:III + G2:III | 76 | −0.5 | 43 | 0.433 | 170 | +30 SB2 | composite; Aa: 0.7; Ab: 0.9, 0.0—~0.1″ | **Capella** |
| | | | | | | | | | | | | orbit 104.0 y | |
| η Ori AB | 5 25.4 | −2 23 | 3.35v | −0.24 | B0.5 V + B | 3 | −4.0 | 1000 | ~0.004? | n.a. | +20 SB2 | ecl.: 3.31–3.60, 8.0 d; A: 3.6; B: 5.0, 1.8″ (2015) | |
| | | | | | | | | | | | | PA: 87°→77°, 1848→2015, orbit ≥ 2000 y | |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell” | |
| γ Ori | 5 26.1 | +6 22 | 1.64 | −0.22 | B2 III | 13 | −2.8 | 250 | 0.015 | 212 | +18 SB? | | **Bellatrix** |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell” | |
| β Tau | 5 27.5 | +28.37 | 1.65 | -0.13 | B7 III | 24 | -1.4 | 130 | 0.175 | 173 | +9 V | | **Elnath** |
| | | | | | | | | | | | | E(B-V)=0.00 | |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell” | |
| β Lep A | 5 29.0 | −20 45 | 2.81 | 0.81 | G5 II | ~20.3 | −0.6 | 160 | 0.086 | 183 | −14 V? | B: 7.5, 2.7″, PA:268°→8°, 1875→2015 | Nihal |
| δ Ori A | 5 33.0 | −0 17 | 2.25v | −0.18 | O9.5 II | 5 | −4.4 | 700 | 0.001 | 137 | +16 SB | ecl.: 2.14–2.26, 5.7 d | Mintaka |
| | | | | | | | | | | | | E(B-V)=+0.07 | |
| α Lep | 5 33.5 | −17 49 | 2.58 | 0.21 | F0 Ib | 1.5 | −6.6 | 2000 | 0.004 | 72 | +24 | | Arneb |
| β Dor | 5 33.8 | −62 29 | 3.76v | 0.64 | F7–G2 Ib | 3.2 | −3.7 | 1000 | 0.013 | 4 | +7 V | Cepheid var.: 3.46–4.08, 9.8 d | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| λ Ori A | 5 36.2 | +9 57 | 3.39 | −0.16 | O8 IIIf | 3 | −4.2 | ~1100 | 0.004 | 216 | +34 | B: 5.61, B0 V, 4.5″, PA:45°→44°, 1779→2015 | Meissa |
| | | | | | | | | | | | | E(B-V)=+0.12 | |
| ι Ori A | 5 36.3 | −5 54 | 2.75 | −0.21 | O9 III | ~1.4 | −6.5 | 2000 | 0.001 | 108 | +22 SB2 | B: 7.3, B7 IIIp (He wk), 11.6″, PA:134°→141°, 1779→2012 | |
| | | | | | | | | | | | | orbit ≥ 700,000 y | |
| | | | | | | | | | | | | E(B-V)=+0.07 | |
| ε Ori | 5 37.2 | −1 11 | 1.69 | −0.18 | B0 Ia | 2 | −7.2 | 2000 | 0.002 | 118 | +26 SB | | **Alnilam** |
| | | | | | | | | | | | | E(B-V)=+0.08 | |
| ζ Tau | 5 38.8 | +21 09 | 2.97v | −0.15 | B2 IIIpe (shell) | 7 | −2.7 | 400 | 0.020 | 175 | +20 SB | ecl., var.: 2.88–3.17, 133 d; B: 5.0, 0.007″, 0.36 y | |
| | | | | | | | | | | | | E(B-V)=+0.09 | |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell”; | |
| | | | | | | | | | | | | “shell-line velocities do not correspond to | |
| | | | | | | | | | | | | orbital elements; possible gaseous ring” ; | |
| | | | | | | | | | | | | “unstable shell star with pseud-periodic | |
| | | | | | | | | | | | | phenomena” | |
| | | | | | | | | | | | | BSC5: “Widths H-lines vary in about 10 min. | |
| | | | | | | | | | | | | Polarization at H beta changes in tens of | |
| | | | | | | | | | | | | minutes, probably due to circumstellar matter” | |
| α Col A | 5 40.3 | −34 04 | 2.65 | −0.12 | B7 IV | 12 | −1.9 | 260 | 0.025 | 176 | +35 V? | | Phact |
| | | | | | | | | | | | | E(B-V)=0.00 | |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell”, | |
| | | | | | | | | | | | | and Hα is variable, and Hβ profile | |
| | | | | | | | | | | | | varies rapidly | |
| ζ Ori A | 5 41.7 | −1 56 | 1.74 | −0.20 | O9.5 Ib | 4 | −5.0 | 700 | 0.005 | 58 | +18 SB | B: 4.2, B0 III, 2.4″, PA:152°→167°, 1822→2013 | Alnitak |
| | | | | | | | | | | | | orbit ≥ 1500 y | |
| | | | | | | | | | | | | E(B-V)=+0.09 | |
| ζ Lep | 5 47.8 | −14 49 | 3.55 | 0.10 | A2 Vann | ~46.3 | 1.9 | ~70.5 | 0.015 | 266 | +20 SB? | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| κ Ori | 5 48.6 | −9 40 | 2.07 | −0.17 | B0.5 Ia | 5 | −4.4 | 600 | 0.002 | 131 | +21 V? | | Saiph |
| | | | | | | | | | | | | E(B-V)=+0.07 | |
| β Col | 5 51.6 | −35 46 | 3.12 | 1.15 | K1.5 III | 37.4 | 1.0 | 87 | 0.408 | 8 | +89 V | | Wazn |
| α Ori | 5 56.2 | +7 25 | 0.45v | 1.50 | M2 Iab | 7 | −5.5 | 500 | 0.030 | 68 | +21 SB | semiregular var.: 0.0–1.3 | **Betelgeuse** |
| | | | | | | | | | | | | BSC5 discusses shells (gas, dust; UV and | |
| | | | | | | | | | | | | radio are cited) | |
| β Aur | 6 00.9 | +44 57 | 1.90v | 0.08 | A1 IV | ~40.2 | −0.1 | 81 | 0.056 | 269 | −18 SB2 | ecl.: 1.89–1.98, 4.0 d (mags. equal) | Menkalinan |
| θ Aur AB | 6 01.0 | +37 13 | 2.65 | −0.08 | A0p II: (Si) | ~19.7 | −0.9 | 166 | ~0.086 | ~149 | +30 SB | B: 7.2, G2 V, 4.0″, PA:7°→304°, 1871→2014 | |
| | | | | | | | | | | | | orbit ≥ 1200 y | |
| η Gem | 6 16.0 | +22 30 | 3.31v | 1.60 | M3 III | 8 | −2.0 | 400 | ~0.064 | ~259 | +19 SB | ecl., var.: 3.2–3.9, 233 d; B: 6.2, 1.7″ (2012) | Propus |
| | | | | | | | | | | | | orbit ≥ 700 y | |
| ζ CMa | 6 21.0 | −30 04 | 3.02 | −0.16 | B2.5 V | 9.0 | −2.2 | 360 | 0.008 | 61 | +32 SB | | Furud |
| β CMa | 6 23.5 | −17 58 | 1.98v | −0.24 | B1 II–III | 7 | −3.9 | ~490 | 0.003 | 256 | +34 SB | var.: 1.93–2.00, 0.25 d | Mirzam |
| | | | | | | | | | | | | E(B-V)=+0.01 | |
| μ Gem | 6 24.1 | +22 30 | 2.87v | 1.62 | M3 IIIab | 14 | −1.4 | 230 | 0.124 | 153 | +55 V? | irregular var.: 2.75–3.02 | Tejat |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| α | Car | 6 24.4 | −52 42 | −0.62 | 0.16 | A9 Ib | 11 | −5.5 | ~310 | 0.031 | 41 | +21 | | **Canopus** |
| ν | Pup | 6 38.3 | −43 13 | 3.17 | −0.10 | B8 IIIn | 9 | −2.1 | 370 | 0.004 | 186 | +28 SB | | |
| γ | Gem | 6 38.8 | +16 23 | 1.93 | 0.00 | A1 IVs | 30 | −0.7 | 110 | 0.057 | 166 | −13 SB | | Alhena |
| | | | | | | | | | | | | | E(B-V)=+0.03 | |
| ε | Gem | 6 45.1 | +25 07 | 3.06 | 1.38 | G8 Ib | 4 | −4.0 | 800 | 0.014 | 204 | +10 SB | | Mebsuta |
| α | CMa A | 6 46.0 | −16 45 | −1.44 | 0.01 | A0mA1 Va | ~379 | 1.5 | 8.6 | ~1.339 | ~204 | −8 SB | B: 8.5, WDA; 10.7″ (2016) ; orbit 50.1 y | **Sirius** |
| | | | | | | | | | | | | | E(B-V)=-0.03 | |
| ξ | Gem | 6 46.3 | +12 52 | 3.35 | 0.44 | F5 IV | 56 | 2.1 | 58.7 | 0.223 | 211 | +25 V? | | |
| α | Pic | 6 48.4 | −61 58 | 3.24 | 0.22 | A6 Vn | ~34 | 0.9 | 100 | 0.252 | 345 | +21 | | |
| τ | Pup | 6 50.4 | −50 38 | 2.94 | 1.21 | K1 III | 18 | −0.8 | 180 | 0.077 | 154 | +36 SB | | |
| ε | CMa A | 6 59.4 | −29 00 | 1.50 | −0.21 | B2 II | 8.0 | −4.0 | 410 | 0.004 | 68 | +27 | | **Adhara** |
| | | | | | | | | | | | | | E(B-V)=+0.02 | |
| σ | CMa | 7 02.5 | −27 58 | 3.49v | 1.73 | K7 Ib | 3 | −4.2 | 1100 | 0.008 | 308 | +22 | irregular var.: 3.43–3.51 | |
| | | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| $o^2$ | CMa | 7 03.8 | −23 52 | 3.02 | −0.08 | B3 Ia | 1 | −6.6 | 3000 | 0.004 | 329 | +48 SB | | |
| | | | | | | | | | | | | | E(B-V)=+0.03 | |
| δ | CMa | 7 09.1 | −26 25 | 1.83 | 0.67 | F8 Ia | 2 | −6.6 | 2000 | 0.005 | 317 | +34 SB | | Wezen |
| | | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| π | Pup | 7 17.8 | −37 08 | 2.71 | 1.62 | K3 Ib | 4 | −4.3 | 800 | 0.012 | 303 | +16 | | |
| δ | Gem AB | 7 21.2 | +21 57 | 3.50 | 0.37 | F0 IV | 54 | 2.2 | 60 | 0.018 | 237 | +4 SB | B: 8.2, K3 V, 5.5″, PA:198°→230°, 1822→2016 | Wasat |
| | | | | | | | | | | | | | orbit 1200 y | |
| | | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| η | CMa | 7 24.8 | −29 20 | 2.45 | −0.08 | B5 Ia | 2 | −6.5 | 2000 | 0.007 | 325 | +41 V | | Aludra |
| | | | | | | | | | | | | | E(B-V)=+0.02 | |
| | | | | | | | | | | | | | BSC5: “circumstellar shell” | |
| β | CMi | 7 28.2 | +8 15 | 2.89 | −0.10 | B8 V | ~20.2 | −0.6 | ~162 | 0.064 | 234 | +22 SB | | Gomeisa |
| | | | | | | | | | | | | | BSC5: “rotationally unstable Be shell star” | |
| σ | Pup A | 7 29.8 | −43 20 | 3.25 | 1.51 | K5 III | 17 | −0.6 | 190 | 0.198 | 342 | +88 SB | B: 8.6, G5: V, 21.5″, PA:90°→73°, 1826→2011 | |
| | | | | | | | | | | | | | orbit ≥ 27,000 y | |
| α | Gem A | 7 35.8 | +31 51 | 1.93 | 0.03 | A1mA2 Va | 63 | 0.9 | 52 | ~0.254 | ~234 | +6 SB | orbit 445 y; max = 6.5″, in 1880; | |
| α | Gem B | 7 35.8 | +31 51 | 2.97 | 0.03 | A2mA5 V: | 63 | 2.0 | 52 | ~0.254 | ~234 | −1 SB | min = 1.8″, in 1965; 5.0″ (2016) | Castor |
| α | CMi A | 7 40.3 | +5 11 | 0.40 | 0.43 | F5 IV–V | 285 | 2.7 | 11.5 | ~1.259 | ~215 | −3 SB | B: 10.3, WD; 3.8″ (2014); orbit 41 y | **Procyon** |
| β | Gem +1P | 7 46.4 | +27 59 | 1.16 | 0.99 | K0 IIIb | 97 | 1.1 | 33.8 | 0.628 | 266 | +3 V | | **Pollux** |
| ξ | Pup | 7 50.1 | −24 54 | 3.34 | 1.22 | G6 Iab–Ib | 3 | −4.5 | 1200 | 0.005 | 260 | +3 SB | | |
| χ | Car | 7 57.2 | −53 02 | 3.46 | −0.18 | B3 IVp | 7 | −2.3 | 500 | 0.035 | 304 | +19 V | Si II strong | |
| ζ | Pup | 8 04.2 | −40 03 | 2.21 | −0.27 | O5 Iafn | 3.0 | −5.4 | 1080 | 0.034 | 299 | −24 V? | | Naos |
| | | | | | | | | | | | | | E(B-V)=+0.04 | |
| ρ | Pup | 8 08.3 | −24 22 | 2.83v | 0.46 | F2mF5 II: (var) | 51.3 | 1.4 | 64 | 0.095 | 299 | +46 SB | var.: 2.68–2.87, 0.14 d  Tureis | |
| | | | | | | | | | | | | | prototype of the “ ρ Pup stars” (these combine | |
| | | | | | | | | | | | | | δ Sct variability with Am-like abundance anomalies) | |
| $\gamma^2$ | Vel | 8 10.1 | −47 24 | 1.75v | −0.14 | O9 1: + WC8 | 3 | −5.9 | 1100 | 0.012 | 330 | +35 SB2 | var.: 1.81–1.87 | |
| | | | | | | | | | | | | | the Wolf-Rayet component is | |
| | | | | | | | | | | | | | the visually brightest of all WR stars, | |
| | | | | | | | | | | | | | is an exceptionally massive WR, | |
| | | | | | | | | | | | | | and is approaching its supernova stage; | |
| | | | | | | | | | | | | | “Spectral Gem of Southern Skies”; | |
| | | | | | | | | | | | | | BSC5: “symmetric shell” | |
| β | Cnc +1P | 8 17.5 | +9 08 | 3.53 | 1.48 | K4 III | 11 | −1.3 | 300 | 0.068 | 224 | +22 V? | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| ε | Car | 8 22.9 | −59 34 | 1.86v | 1.20 | K3:III + B2:V | 5 | −4.5 | 600 | 0.034 | 311 | +2 | ecl.?: 1.82–1.94 | **Avior** |
| ο | UMa A +1P | 8 31.8 | +60 39 | 3.35v? | 0.86 | G5 III | ~18.2 | −0.3 | ~179 | 0.172 | 231 | +20 | var.?: 3.30?-3.36?  Muscida | |
| δ | Vel AB | 8 45.2 | −54 47 | 1.93 | 0.04 | A1 Va | 40 | 0.0 | 81 | ~0.107 | ~164 | + 2 V? | B: 5.0, 0.4″, PA:177°→263°, 1894→2013 | |
| | | | | | | | | | | | | | orbit 142 y (min angular separation was in 2000) | |
| ε | Hya ABC | 8 47.8 | +6 21 | 3.38 | 0.68 | G5:III + A: | 25 | 0.4 | 130 | ~0.232 | ~259 | +36 SB | composite A: 3.8; B: 4.7, 0.3″(2014); C: 7.8, 2.8″(2016) | |
| | | | | | | | | | | | | | AB orbit 15.09 y, AB-C orbit 590 y | |
| ζ | Hya | 8 56.4 | +5 52 | 3.11 | 0.98 | G9 II–III | ~19.5 | −0.4 | ~167 | 0.101 | 279 | +23 | | |
| ι | UMa A | 9 00.5 | +47 58 | 3.12 | 0.22 | A7 IVn | ~68.9 | 2.3 | 47.3 | ~0.491 | ~244 | +9 SB | BC: 10.8, M1 V, 2.4″, PA:349°→82°, 1831→2012 | Talitha |
| | | | | | | | | | | | | | orbit 818 y | |
| λ | Vel | 9 08.7 | −43 30 | 2.23v | 1.66 | K4 Ib–IIa | 6.0 | −3.9 | 540 | 0.028 | 299 | +18 | var.: 2.14–2.30 | **Suhail** |
| a | Car | 9 11.5 | −59 03 | 3.43v | −0.19 | B2 IV–V | 7 | −2.3 | 500 | 0.022 | 312 | +23 SB2 | ecl.?: 3.41–3.44 | HR 3659 |
| β | Car | 9 13.4 | −69 48 | 1.67 | 0.07 | A1 III | 28.8 | −1.0 | 113 | 0.191 | 305 | −5 V? | | **Miaplacidus** |
| ι | Car | 9 17.6 | −59 21 | 2.21v | 0.19 | A7 Ib | 4.3 | −4.6 | 800 | 0.022 | 302 | +13 | var.: 2.23–2.28 | Aspidiske |
| α | Lyn | 9 22.2 | +34 19 | 3.14 | 1.55 | K7 IIIab | 16 | −0.8 | ~203 | 0.224 | 274 | +38 | | |
| κ | Vel | 9 22.7 | −55 05 | 2.47 | −0.14 | B2 IV–V | 6 | −3.8 | 600 | 0.016 | 315 | +22 SB | | |
| α | Hya | 9 28.5 | −8 44 | 1.99 | 1.44 | K3 II–III | 18 | −1.7 | 180 | 0.038 | 336 | −4 V? | | **Alphard** |
| N | Vel | 9 31.8 | −57 07 | 3.16 | 1.54 | K5 III | 13.6 | −1.2 | 240 | 0.033 | 280 | −14 | | HR 3803 |
| θ | UMa | 9 34.1 | +51 36 | 3.17 | 0.48 | F6 IV | 74.2 | 2.5 | 44.0 | 1.088 | 241 | +15 SB | | |
| ο | Leo AB | 9 42.1 | +9 48 | 3.52v | 0.52 | F5 II + A5? | 25 | 0.5 | 130 | 0.148 | 255 | +27 SB | A: occ. bin. (mags. equal) | Subra |
| | | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| l | Car | 9 45.8 | −62 36 | 3.69v | 1.01 | F9–G5 Ib | 2 | −4.7 | 2000 | 0.015 | 302 | +3 V | Cepheid var.: 3.28–4.18, 36 d | HR 3884 |
| | | | | | | | | | | | | | BSC5: “possible circumstellar shell” | |
| | | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| ε | Leo | 9 46.9 | +23 41 | 2.97 | 0.81 | G1 II | 13.2 | −1.4 | 250 | 0.047 | 259 | +4 V? | | |
| υ | Car AB | 9 47.6 | −65 09 | 2.92 | 0.29 | A6 II | 2.3 | −5.3 | ~1400 | 0.028 | 307 | +14 | A: 3.01; B: 5.99, B7 III, 5.0″,  PA:126°→126°, 1836→2010 | |
| | | | | | | | | | | | | | orbit ≥ 20,000 y | |
| φ | Vel | 9 57.5 | −54 39 | 3.52 | −0.07 | B5 Ib | 2.0 | −4.9 | 1600 | 0.014 | 285 | +14 | | |
| | | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| η | Leo | 10 08.3 | +16 40 | 3.48 | −0.03 | A0 Ib | 3 | −4.5 | 1300 | ~0.003 | n.a. | +3 V | B: 4.5, 0.1″, PA:84°→309°, 1937→1993 | |
| | | | | | | | | | | | | | BSC5: “chromospheric shell” | |
| α | Leo A | 10 09.4 | +11 53 | 1.36 | −0.09 | B7 Vn | 41 | −0.6 | 79 | 0.249 | 271 | +6 SB | | **Regulus** |
| | | | | | | | | | | | | | E(B-V)=+0.01 | |
| ω | Car | 10 14.2 | −70 08 | 3.29 | −0.07 | B8 IIIn | 9.5 | −1.8 | 340 | 0.037 | 281 | +7 V | | |
| | | | | | | | | | | | | | BSC5: variable Hα; shell | |
| q | Car | 10 17.7 | −61 26 | 3.39v | 1.54 | K3 IIa | 5.0 | −3.1 | 660 | 0.026 | 286 | +8 | irregular var.: 3.36–3.44 | HR 4050 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ζ Leo | 10 17.7 | +23 19 | 3.43 | 0.31 | F0 IIIa | 12 | −1.2 | 270 | 0.020 | 110 | −16 SB | | Adhafera |
| λ UMa | 10 18.2 | +42 49 | 3.45 | 0.03 | A1 IV | 24 | 0.3 | 140 | 0.186 | 256 | +18 V | | Tania Borealis |
| γ Leo A+1P | 10 21.0 | +19 45 | 2.61 | 1.13 | K1 IIIb Fe−0.5 | 26 | −0.3 | 130 | ~0.333 | ~118 | −37 SB | 4.7″ (2016), PA:99° →126°, 1820→ 2016 (510.3 y); | |
| γ Leo B | 10 21.0 | +19 45 | 3.16 | 1.42 | G7 III Fe−1 | 26 | 0.2 | 130 | ~0.346 | ~118 | −36 V | max ~5″, around 2100 | Algieba |
| μ UMa | 10 23.4 | +41 24 | 3.06 | 1.60 | M0 IIIp | 14 | −1.2 | 230 | 0.089 | 293 | −21 SB | Ca II emission | Tania Australis |
| p Car | 10 32.7 | −61 47 | 3.30v | −0.09 | B4 Vne | 7 | −2.6 | 500 | 0.021 | 304 | +26 | irregular var.: 3.27–3.37 | HR 4140 |
| | | | | | | | | | | | | BSC5: shell; variable Balmer-line profiles | |
| θ Car | 10 43.6 | −64 30 | 2.74 | −0.22 | B0.5 Vp | 7 | −3.0 | 460 | 0.022 | 303 | +24 SB | nitrogen enhanced | |
| | | | | | | | | | | | | E(B-V)=+0.06 | |
| μ Vel AB | 10 47.6 | −49 31 | 2.69 | 1.07 | G5 III + F8:V | 28 | −0.1 | ~117 | 0.083 | 131 | +6 SB | A: 2.72; B: 5.92, 2.3″, PA:55°→57°, 1880→2016 | |
| | | | | | | | | | | | | orbit 138 y | |
| ν Hya | 10 50.5 | −16 17 | 3.11 | 1.23 | K2 III | 23 | −0.1 | 144 | 0.220 | 25 | −1 | | |
| β UMa | 11 02.9 | +56 17 | 2.34 | 0.03 | A0mA1 IV–V | ~40.9 | 0.4 | 80 | 0.088 | 68 | −12 SB | | Merak |
| α UMa AB | 11 04.9 | +61 39 | 1.81 | 1.06 | K0 IIIa | 27 | −1.1 | 120 | 0.139 | 255 | −9 SB | A: 1.86; B: 4.8, A8 V, 0.7″ (2014) | **Dubhe** |
| | | | | | | | | | | | | orbit 44 y | |
| ψ UMa | 11 10.7 | +44 24 | 3.00 | 1.14 | K1 III | 22.6 | −0.2 | 145 | 0.068 | 246 | −4 V? | | |
| δ Leo | 11 15.1 | +20 25 | 2.56 | 0.13 | A4 IV | 56 | 1.3 | 58 | 0.193 | 132 | −20 V | | Zosma |
| θ Leo | 11 15.2 | +15 20 | 3.33 | 0.00 | A2 IV | ~19.8 | −0.2 | 165 | 0.099 | 217 | +8 V | (K-line var.) | Chertan |
| ν UMa | 11 19.5 | +33 00 | 3.49 | 1.40 | K3 III Ba0.3 | ~8.2 | −1.9 | 400 | 0.039 | 317 | −9 SB | B: 9.5, 7.8″, PA:145°→145°, 1827→2015 | Alula Borealis |
| | | | | | | | | | | | | orbit ≥ 12,000 y | |
| | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| ξ Hya | 11 33.9 | −31 58 | 3.54 | 0.95 | G7 III | ~25.2 | 0.5 | 130 | 0.214 | 259 | −5 V | | |
| | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] | |
| λ Cen | 11 36.6 | −63 07 | 3.11 | −0.04 | B9.5 IIn | 8 | −2.4 | 400 | 0.034 | 258 | −1 V | | |
| β Leo | 11 50.0 | +14 28 | 2.14 | 0.09 | A3 Va | 91 | 1.9 | 36 | 0.511 | 257 | 0 V | | **Denebola** |
| γ UMa | 11 54.8 | +53 36 | 2.41 | 0.04 | A0 Van | 39 | 0.4 | 83 | 0.108 | 84 | −13 SB | | Phecda |
| | | | | | | | | | | | | E(B-V)=0.00 | |
| δ Cen | 12 09.3 | −50 50 | 2.58v | −0.13 | B2 IVne | 8 | −2.9 | 400 | 0.050 | 262 | +11 V | irregular var.: 2.51–2.65 | |
| | | | | | | | | | | | | BSC5: shell; equivalent width of Hα varies | |
| ε Crv | 12 11.1 | −22 43 | 3.02 | 1.33 | K2 III | ~10.3 | −1.9 | 320 | 0.072 | 278 | +5 | | |
| δ Cru | 12 16.1 | −58 51 | 2.79v | −0.19 | B2 IV | 9.4 | −2.3 | 350 | 0.037 | 254 | +22 V? | var.: 2.78–2.84, 0.15 d | |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell” | |
| δ UMa | 12 16.3 | +56 56 | 3.32 | 0.08 | A2 Van | 40.5 | 1.4 | 81 | 0.104 | 86 | −13 V | | Megrez |
| γ Crv | 12 16.8 | −17 39 | 2.58 | −0.11 | B8 III | 21 | −0.8 | 154 | 0.160 | 278 | −4 SB | sp. var.? | **Gienah** |
| | | | | | | | | | | | | BSC5: “expanding cirumstellar shell” | |
| α Cru A | 12 27.6 | −63 12 | 1.25 | −0.20 | B0.5 IV | 10 | −3.7 | ~320 | 0.037 | 251 | −11 SB | 5.4″ (1826); 4.2″ (2016) | **Acrux** |
| α Cru B | 12 27.6 | −63 12 | 1.64 | −0.18 | B1 Vn | 10 | −3.3 | ~320 | 0.037? | 251? | −1 | PA: 114°→112°, 1826→2016 | |
| | | | | | | | | | | | | orbit ≥ 1300 y | |
| δ Crv A | 12 30.8 | −16 37 | 2.94 | −0.01 | B9.5 IVn | ~37.6 | 0.8 | 87 | 0.252 | 237 | +9 V | B:8.26, K2 V, 24.6″, PA: 216°→213°, 1782→2012 | Algorab |
| | | | | | | | | | | | | orbit ≥ 9400 y | |
| γ Cru | 12 32.2 | −57 13 | 1.59v | 1.60 | M3.5 III | 37 | −0.6 | 89 | 0.267 | 174 | +21 | var.: 1.60–1.67 | **Gacrux** |
| β Crv | 12 35.4 | −23 30 | 2.65 | 0.89 | G5 II | 22 | −0.6 | 146 | 0.057 | 179 | −8 V | | |
| α Mus | 12 38.3 | −69 14 | 2.69v | −0.18 | B2 IV–V | 10.3 | −2.2 | 320 | 0.042 | 252 | +13 V | var.: 2.68–2.73, 0.090 d | |
| γ Cen A | 12 42.5 | −49 04 | 2.95 | −0.02 | A1 IV | 25 | −0.1 | 130 | ~0.194 | ~267 | −6 | orbit 84 y; min = 0.2″ ; 0.4″ (2010), | |
| γ Cen B | 12 42.5 | −49 04 | 2.85 | −0.02 | A0 IV | 25 | −0.2 | 130 | ~0.194 | ~267 | −6 | 0.2″ (2014) max = 1.7″ | |
| γ Vir AB | 12 42.6 | −1 33 | 2.74 | 0.37 | F1 V + F0mF2 V | 85 | 2.4 | 39 | ~0.619 | ~276 | −20 | A: 3.48; B: 3.50; 0.8″ (2007); 2.5″ (2016) | Porrima |
| | | | | | | | | | | | | orbit 169 y | |
| β Mus AB | 12 47.4 | −68 13 | 3.04 | −0.18 | B2 V + B2.5 V | ~9.6 | −2.1 | 340 | ~0.043 | ~258 | +42 V | A: 3.51; B: 4.00, 1.1″, PA:317°→53°, 1880→2016 | |
| | | | | | | | | | | | | orbit 194 y | |
| β Cru | 12 48.8 | −59 47 | 1.25v | −0.24 | B0.5 III | 12 | −3.4 | 300 | 0.046 | 249 | +16 SB | var.: 1.23–1.31, 0.24 d | Mimosa |
| ε UMa | 12 54.8 | +55 52 | 1.76v | −0.02 | A0p IV: (CrEu) | ~39.5 | −0.3 | 83 | 0.112 | 94 | −9 SB? | var.: 1.76–1.78, 5.1 d | **Alioth** |
| δ Vir | 12 56.5 | +3 18 | 3.39 | 1.57 | M3 III | 16 | −0.5 | ~198 | 0.473 | 264 | −18 V? | | |
| $\alpha^2$ CVn A | 12 56.9 | +38 13 | 2.85 | −0.06 | A0p (SiEu) | 28 | 0.1 | 110 | 0.241 | 283 | −3 V | B:5.6, F0 V, 20.0″, PA:234°→229°, 1777→2016 | Cor Caroli |
| | | | | | | | | | | | | orbit ≥ 8300 y (c.p.m .has confirmed true binarity) | |
| ε Vir | 13 03.1 | +10 52 | 2.85 | 0.93 | G9 IIIab | 29.8 | 0.2 | 110 | 0.275 | 274 | −14 V? | | Vindemiatrix |
| γ Hya | 13 19.9 | −23 16 | 2.99 | 0.92 | G8 IIIa | ~24.4 | −0.1 | 134 | 0.081 | 121 | −5 V? | | |
| ι Cen | 13 21.6 | −36 49 | 2.75 | 0.07 | A2 Va | 55 | 1.5 | 59 | 0.352 | 256 | 0 | | |
| ζ UMa A | 13 24.7 | +54 50 | 2.23 | 0.06 | A1 Va | 40 | 0.1 | 90 | 0.123 | 100 | −6 SB2 | B:3.94, A1mA7 IV–V, 14.4″; period >5000 y? | Mizar |
| | | | | | | | | | | | | not only are A+B a true binary; it is now additionally | |
| | | | | | | | | | | | | believed that Alcor is gravitationally bound to A+B | |
| | | | | | | | | | | | | (Bob King, *Sky & Tel.*, 2015-03-25) | |
| α Vir | 13 26.2 | −11 15 | 0.98v | −0.24 | B1 V | 13 | −3.4 | 250 | 0.052 | 234 | +1 SB2 | var.: 0.95–1.05, 4.0 d; mult. 3.1, 4.5, 7.5 | **Spica** |
| | | | | | | | | | | | | E(B-V)=+0.03 | |
| ζ Vir | 13 35.6 | −0 41 | 3.38 | 0.11 | A2 IV | 44 | 1.6 | 74 | 0.285 | 280 | −13 | | |
| ε Cen | 13 41.1 | −53 34 | 2.29 | −0.17 | B1 III | 8 | −3.3 | 400 | 0.019 | 233 | +3 | | |
| η UMa | 13 48.3 | +49 13 | 1.85 | −0.10 | B3 V | 31 | −0.7 | 104 | 0.122 | 263 | −11 SB? | | **Alkaid** |
| | | | | | | | | | | | | E(B-V)=+0.02 | |
| ν Cen | 13 50.6 | −41 47 | 3.41 | −0.22 | B2 IV | ~7.5 | −2.2 | 440 | 0.034 | 233 | +9 SB | | |
| μ Cen | 13 50.7 | −42 34 | 3.47v | −0.17 | B2 IV–Vpne | ~6.4 | −2.5 | 510 | 0.031 | 232 | +9 SB | variable shell: 2.92–3.47 | |
| | | | | | | | | | | | | BSC5: “line profiles of MgII 4481 change in | |
| | | | | | | | | | | | | period 0.505d, about five times the | |
| | | | | | | | | | | | | period of weaker absorption”; variable Hα; | |
| | | | | | | | | | | | | “variable line profiles” | |
| η Boo | 13 55.6 | +18 18 | 2.68 | 0.58 | G0 IV | 88 | 2.4 | 37 | 0.361 | 190 | 0 SB | | Muphrid |
| ζ Cen | 13 56.7 | −47 23 | 2.55 | −0.18 | B2.5 IV | 8.5 | −2.8 | 380 | 0.073 | 232 | +7 SB2 | | |
| | | | | | | | | | | | | E(B-V)=-0.02 | |
| | | | | | | | | | | | | BSC5: “expanding circumstellar shell” | |
| β Cen AB | 14 05.1 | −60 28 | 0.58v | −0.23 | B1 III | 8 | −4.8 | 400 | 0.041 | 235 | +6 SB | B:3.94, A1mA7 IV–V, 0.4″; period 1500y? | **Hadar** |
| | | | | | | | | | | | | E(B-V)=+0.02 | |
| π Hya | 14 07.4 | −26 46 | 3.25 | 1.09 | K2 IIIb | ~32.3 | 0.8 | 101 | 0.148 | 163 | +27 V | | |
| θ Cen | 14 07.8 | −36 28 | 2.06 | 1.01 | K0 IIIb | 55 | 0.8 | 59 | 0.734 | 225 | +1 | | **Menkent** |
| α Boo | 14 16.5 | +19 05 | −0.05 | 1.24 | K1.5 III Fe−0.5 | 89 | −0.3 | 37 | 2.279 | 209 | −5 V | high space velocity | **Arcturus** |
| ι Lup | 14 20.6 | −46 09 | 3.55 | −0.18 | B2.5 IVn | ~9.6 | −1.5 | 340 | 0.013 | 249 | +22 | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] |
| γ Boo | 14 32.8 | +38 14 | 3.04 | 0.19 | A7 IV+ | 37.6 | 0.9 | 87 | 0.190 | 323 | −37 V | Seginus |
| η Cen | 14 36.7 | −42 14 | 2.33v | −0.16 | B1.5 IVpne | 11 | −2.5 | 310 | 0.048 | 227 | 0 SB | variable shell: 2.30–2.41 |
| | | | | | | | | | | | | BSC5: Hα variable, Hβ "sometimes bright, |
| | | | | | | | | | | | | sometimes dark and double or multiple" |
| α Cen B | 14 40.9 | −60 55 | 1.35 | 0.9 | K1 V | 750 | 5.7 | 4.3 | ~3.703 | ~283 | −21 V? | AB 4.1″ (2016); orbit 79.9 y; min = 2″(1955); max 22″ |
| | | | | | | | | | | | | 2012 exoplanet claim now discounted |
| α Cen A | 14 40.9 | −60 55 | −0.01 | 0.71 | G2 V | 750 | 4.4 | 4.3 | ~3.710 | ~277 | −22 SB | C: Proxima, 12.4, M5e, 212° **Rigil Kentaurus** |
| α Lup | 14 43.2 | −47 28 | 2.30v | −0.15 | B1.5 III | 7 | −3.5 | 460 | 0.032 | 221 | +5 SB | var.: 2.29–2.34, 0.26 d |
| α Cir | 14 44.0 | −65 03 | 3.18 | 0.26 | A7p (Sr) | 60.4 | 2.1 | 54.1 | 0.303 | 220 | +7 SB? | B: 8.6, K5 V, 15.7″, PA:263°→224°, 1826→2016 |
| | | | | | | | | | | | | AB probably true binary, with orbit ≥ 2600 y |
| ε Boo AB | 14 45.8 | +27 00 | 2.35 | 1.34 | K0 II–III+A0 V | 16 | −1.6 | 200 | 0.044 | 288 | −17 V | A:2.50; B:4.66, 2.9″,PA:318°→343°,1822→2015 Izar |
| | | | | | | | | | | | | orbit well over 1000 y |
| | | | | | | | | | | | | F.G.W. von Struve: "pulcherrima" ("the loveliest") |
| β Umi +1P | 14 50.7 | +74 05 | 2.07 | 1.46 | K4 III | 24.9 | −0.9 | 131 | 0.035 | 289 | +17 V | **Kochab** |
| $\alpha^2$ Lib | 14 51.9 | −16 07 | 2.75 | 0.15 | A3 III–IV | 43 | 0.9 | 76 | 0.126 | 237 | −10 SB | **Zubenelgenubi** |
| β Lup | 14 59.8 | −43 12 | 2.68 | −0.18 | B2 IV | 9 | −2.7 | 380 | 0.054 | 222 | 0 SB | |
| κ Cen | 15 00.4 | −42 11 | 3.13 | −0.21 | B2 V | 9 | −2.2 | 400 | 0.029 | 218 | +8 SB | |
| β Boo | 15 02.6 | +40 19 | 3.49 | 0.96 | G8 IIIa | 14.5 | −0.7 | 230 | 0.049 | 234 | −20 V? | Ba 0.4, Fe −0.5 Nekkar |
| | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] |
| σ Lib | 15 05.2 | −25 21 | 3.25v | 1.67 | M2.5 III | 11 | −1.5 | 290 | 0.083 | 239 | −4 | semiregular var.: 3.20–3.46 |
| ζ Lup | 15 13.6 | −52 10 | 3.41 | 0.92 | G8 III | ~27.8 | 0.6 | 117 | 0.133 | 238 | −10 | |
| δ Boo | 15 16.2 | +33 15 | 3.46 | 0.96 | G8 III Fe–1 | ~26.8 | 0.6 | 122 | 0.140 | 143 | −12 SB | |
| β Lib | 15 18.0 | −9 27 | 2.61 | −0.07 | B8 IIIn | ~17.6 | −1.2 | 190 | 0.100 | 259 | −35 SB | Zubeneschamali |
| | | | | | | | | | | | | E(B-V)=-0.02 |
| γ TrA | 15 20.7 | −68 45 | 2.87 | 0.01 | A1 IIIn | 17.7 | −0.9 | 184 | 0.074 | 244 | −3 V | |
| γ UMi | 15 20.7 | +71 46 | 3.00 | 0.06 | A3 III | 6.7 | −2.9 | 490 | 0.025 | 315 | −4 V | Pherkad |
| | | | | | | | | | | | | BSC5: "shell possibly variable", H and CaII variable |
| δ Lup | 15 22.6 | −40 43 | 3.22 | −0.23 | B1.5 IVn | 4 | −3.9 | 900 | 0.032 | 218 | 0 V? | |
| ε Lup AB | 15 23.9 | −44 45 | 3.37 | −0.19 | B2 IV–V | 6 | −2.6 | 500 | ~0.030 | ~230 | +8 SB2 | A: 3.56; B: 5.04, 0.2″, PA:285°→95°, 1883→2014 |
| | | | | | | | | | | | | orbit 737 y |
| ι Dra +1P | 15 25.3 | +58 54 | 3.29 | 1.17 | K2 III | 32.2 | 0.8 | 101 | 0.019 | 334 | −11 | Edasich |
| α CrB | 15 35.5 | +26 39 | 2.22v | 0.03 | A0 IV (composite) | 43 | 0.4 | 75 | 0.150 | 127 | +2 SB | ecl.: 2.21–2.32, 17 d **Alphecca** |
| γ Lup AB | 15 36.4 | −41 14 | 2.80 | −0.22 | B2 IVn | 8 | −2.8 | 400 | ~0.030 | ~212 | +2 V | A: 3.5; B: 3.6; similar spectra 1.0″ (2016) |
| | | | | | | | | | | | | PA: 94°→277°, 1835→2016; |
| | | | | | | | | | | | | max angular separation 1980, min ang.sep. 2075; |
| | | | | | | | | | | | | orbit 190 y |
| | | | | | | | | | | | | BSC5 asserts expanding cirumstellar shell, |
| | | | | | | | | | | | | and (citing 1987 Vainu Bappu spectra) |
| | | | | | | | | | | | | notes emission peaks in Hα profiles, |
| | | | | | | | | | | | | says star may be in transition from B to Be |
| α Ser | 15 45.2 | +6 22 | 2.63v? | 1.17 | K2 IIIb CN1 | 44 | 0.9 | 74 | 0.141 | 71 | +3 V? | var.? Unukalhai |
| μ Ser | 15 50.6 | −3 29 | 3.54 | −0.04 | A0 III | 19 | 0.0 | 170 | 0.104 | 255 | −9 SB | |
| | | | | | | | | | | | | [THIS STAR ONLY IN ONLINE VERSION OF TABLE] |
| β TrA | 15 56.8 | −63 29 | 2.83 | 0.32 | F0 IV | ~80.8 | 2.4 | 40.4 | 0.444 | 205 | 0 | |
| π Sco A | 16 00.0 | −26 10 | 2.89 | −0.18 | B1 V + B2 V | 6 | −3.4 | 600 | 0.029 | 203 | −3 SB2 | A: occ. Bin.: 3.4 + 4.5, 1.57 d |
| | | | | | | | | | | | | E(B-V)=+0.08 |
| T CrB | 16 00.3 | +25 52 | 10.08v | 1.34 | gM3: + Bep | - | 0.6 | 2500? | 0.011 | 329 | −29 SB | recurrent nova 1866 (mag. 3), 1946 (mag. 2) |
| η Lup A | 16 01.4 | −38 27 | 3.42 | −0.21 | B2.5 IVn | 7 | −2.2 | 440 | 0.033 | 211 | +8 V | A: 3.47; B: 7.70, 15.0″, PA:22°→15°, 1834→2016 |
| | | | | | | | | | | | | orbit ≥ 26,000 y |
| δ Sco AB | 16 01.4 | −22 40 | 2.29 | −0.12 | B0.3 IVe+B3V | 7 | −3.6 | 500 | ~0.037 | ~196 | −7 SB | AB: 10.8 y, 0.2″(2015), periastron outbursts 2000, 2011 |
| | | | | | | | | | | | | for 2000-2011 AAVSO on δ Sco, consult |
| | | | | | | | | | | | | https://www.aavso.org/vsots_delsco |
| | | | | | | | | | | | | Dschubba |
| | | | | | | | | | | | | E(B-V)=+0.16 |
| β Sco AB | 16 06.5 | −19 51 | 2.56 | −0.06 | B0.5 V | 8 | −2.9 | 400 | 0.025 | 192 | −1 SB | A: 2.78; B: 5.04, ~0.3″; C: 4.93, 14″ Acrab |
| | | | | | | | | | | | | period > 16,000 y |
| δ Oph | 16 15.3 | −3 44 | 2.73 | 1.58 | M1 III | ~19.1 | −0.9 | 171 | 0.150 | 198 | −20 V | Yed Prior |
| ε Oph | 16 19.3 | −4 44 | 3.23 | 0.97 | G9.5 IIIb | 31 | 0.7 | 106 | 0.093 | 64 | −10 V | Yed Posterior |
| σ Sco A | 16 22.3 | −25 38 | 2.91v | 0.13 | B1 III | 5 | −3.7 | 700 | 0.019 | 213 | +3 SB | var.: 2.86–2.94, 0.25 d; B: 8.3, B9 V, 20.3″ (2016) |
| | | | | | | | | | | | | E(B-V)=+0.40 (pronounced reddening) Alniyat |
| η Dra A | 16 24.2 | +61 28 | 2.73 | 0.91 | G8 IIIab | 35.4 | 0.5 | 92 | 0.059 | 343 | −14 SB? | B: 8.7, 4.4″, PA:150°→143°, 1843→2015 |
| | | | | | | | | | | | | orbit ≥1000 y |
| α Sco A | 16 30.5 | −26 28 | 1.06v | 1.86 | M1.5 Iab | 6 | −5.1 | 600 | 0.026 | 207 | −3 SB | irregular var.: 0.88–1.16; B: 5.37, 3.2″(2016) |
| | | | | | | | | | | | | PA: 273°→276°, 1847→2016; orbit 2500 y? |
| β Her | 16 31.0 | +21 27 | 2.78 | 0.95 | G7 IIIa | 23 | −0.4 | 140 | 0.100 | 261 | −26 SB | Kornephoros |
| τ Sco | 16 37.0 | −28 15 | 2.82 | −0.21 | B0 V | 7 | −3.0 | 500 | 0.025 | 203 | +2 V | |
| | | | | | | | | | | | | E(B-V)=+0.06 |
| ζ Oph | 16 38.2 | −10 36 | 2.54 | 0.04 | O9.5 Vn | 9 | −2.7 | 370 | 0.029 | 32 | −15 V | |
| | | | | | | | | | | | | E(B-V)=+0.32 (pronounced reddening) |
| | | | | | | | | | | | | BSC5 discusses shell, gives some history |
| | | | | | | | | | | | | of Hα absorption, Hα emission |
| ζ Her AB | 16 42.0 | +31 34 | 2.81 | 0.65 | G1 IV | 93 | 2.7 | 35 | ~0.575 | ~307 | −70 SB | A: 2.90; B: 5.53, G7 V, 1.5″ (2016), orbit 34 y |
| η Her | 16 43.5 | +38 53 | 3.48 | 0.92 | G7.5 IIIb Fe–1 | 30.0 | 0.9 | 109 | 0.092 | 157 | +8 V? | |
| α TrA | 16 50.6 | −69 04 | 1.91 | 1.45 | K2 IIb–IIIa | ~8.4 | −3.5 | 390 | 0.036 | 150 | −3 | **Atria** |
| ε Sco | 16 51.4 | −34 20 | 2.29 | 1.14 | K2 III | 51 | 0.8 | 64 | 0.666 | 247 | −3 | |
| $\mu^1$ Sco | 16 53.1 | −38 05 | 3.00v | −0.20 | B1.5 IVn | 7 | −2.9 | 500 | 0.024 | 206 | −25 SB2 | ecl.: 2.94–3.22, 1.4 d |
| κ Oph | 16 58.5 | +9 21 | 3.19 | 1.16 | K2 III | 36 | 1.0 | 91 | 0.292 | 268 | −56 V | |
| ζ Ara | 17 00.2 | −56 01 | 3.12 | 1.55 | K4 III | 7 | −2.7 | 490 | 0.041 | 206 | −6 | |
| ζ Dra | 17 08.8 | +65 42 | 3.17 | −0.12 | B6 III | 10 | −1.8 | 330 | 0.028 | 314 | −17 V | |
| | | | | | | | | | | | | E(B-V)=+0.03 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| η Oph AB | 17 11.4 | −15 45 | 2.43 | 0.06 | A2.5 Va | 37 | 0.3 | 90 | ~0.107 | ~22 | −1 SB | A: 3.0; B: 3.5, A3 V, 0.6″ (2016), orbit 87.6 y | **Sabik** |
| η Sco | 17 13.5 | −43 16 | 3.32 | 0.44 | F2 V:p (Cr) | ~44.4 | 1.6 | 73 | 0.290 | 175 | −28 | | |
| α Her AB | 17 15.5 | +14 22 | 2.78v | 1.16 | M5 Ib–II | 9 | −2.4 | 400 | 0.032 | 347 | −33 V | semiregular var.: 2.7–4.0; B: 5.4, 4.8″(2016) | Rasalgethi |
| | | | | | | | | | | | | PA: 117°→104°, 1777→2016; orbit > 3000 y | |
| π Her | 17 15.7 | +36 47 | 3.16 | 1.44 | K3 IIab | 8.7 | −2.2 | 380 | 0.027 | 276 | −26 V? | | |
| δ Her | 17 15.8 | +24 49 | 3.12 | 0.08 | A1 Vann | 43.4 | 1.3 | 75 | ~0.158 | ~188 | −40 SB | B: 8.8, 12.7″(2013) is optical companion | Sarin |
| θ Oph | 17 23.1 | −25 01 | 3.27v | −0.19 | B2 IV | ~7.5 | −2.4 | 440 | 0.025 | 197 | −2 SB | occ. bin.: 3.4, 5.4; var.: 3.25–3.31, 0.14 d | |
| β Ara | 17 26.8 | −55 33 | 2.84 | 1.48 | K3 Ib–IIa | 5 | −3.6 | 600 | 0.027 | 199 | 0 | | |
| γ Ara A | 17 27.0 | −56 24 | 3.31 | −0.15 | B1 Ib | ~2.9 | −4.4 | 1100 | 0.016 | 182 | −3 V | broad lines for Ib; B:10.0,18.1″,PA:324°→326°, 1835→2016 | |
| | | | | | | | | | | | | orbit ≥ 135,000 y | |
| | | | | | | | | | | | | E(B-V)=+0.08 | |
| β Dra A | 17 30.9 | +52 17 | 2.79 | 0.95 | G2 Ib–IIa | 8.6 | −2.5 | 380 | 0.020 | 308 | −20 V | B: 11.5, 4.4″, PA:13°→12°, 1889→1934 | Rastaban |
| | | | | | | | | | | | | orbit ≥ 4000 y | |
| υ Sco | 17 32.0 | −37 19 | 2.70 | −0.18 | B2 IV | 6 | −3.5 | 600 | 0.030 | 185 | +8 SB | | Lesath |
| | | | | | | | | | | | | E(B-V)=+0.02 | Lesa |
| α Ara | 17 33.3 | −49 53 | 2.84 | −0.14 | B2 Vne | 12 | −1.7 | 300 | 0.075 | 206 | 0 SB | | |
| | | | | | | | | | | | | BSC5: shell, variable Hα emission | |
| λ Sco | 17 34.9 | −37 07 | 1.62v | −0.23 | B1.5 IV | 6 | −4.6 | 600 | 0.032 | 195 | -3 SB2 | ecl.?, var: 1.62−1.68, 0.21 d | **Shaula** |
| | | | | | | | | | | | | E(B-V)=+0.03 | |
| α Oph | 17 35.8 | +12 33 | 2.08 | 0.16 | A5 Vnn | 67 | 1.2 | 49 | 0.247 | 154 | +13 SB? | | **Rasalhague** |
| ξ Ser | 17 38.6 | −15 25 | 3.54 | 0.26 | F0 IIIb | 31 | 1.0 | 105 | 0.073 | 215 | −43 SB | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| θ Sco | 17 38.6 | −43 00 | 1.86 | 0.41 | F1 III | ~11 | −3.0 | 300 | 0.006 | 119 | +1 | | Sargas |
| κ Sco | 17 43.8 | −39 02 | 2.39v | −0.17 | B1.5 III | 7 | −3.5 | 480 | 0.026 | 193 | −14 SB | var.: 2.41–2.42, 0.20 d | |
| β Oph | 17 44.4 | +4 34 | 2.76 | 1.17 | K2 III | ~39.8 | 0.8 | 82 | 0.165 | 345 | −12 V | | Cebalrai |
| μ Her A | 17 47.2 | +27 43 | 3.42 | 0.75 | G5 IV | ~120.3 | 3.8 | 27.1 | 0.804 | 201 | −16 V | BC: 9.78, 35.5″, PA:240°→249°, 1781→2015 | |
| | | | | | | | | | | | | orbit ≥ 3700 y | |
| ι[1] Sco | 17 48.9 | −40 08 | 2.99 | 0.51 | F2 Ia | 2 | −5.9 | 2000 | 0.006 | 180 | −28 SB | | |
| G Sco | 17 51.1 | −37 03 | 3.19 | 1.19 | K2 III | 25.9 | 0.3 | 126 | 0.049 | 56 | +25 | | HR 6630 |
| γ Dra | 17 57.0 | +51 29 | 2.24 | 1.52 | K5 III | 21.1 | −1.1 | 154 | 0.024 | 200 | −28 | | **Eltanin** |
| ν Oph +2P | 18 00.0 | −9 46 | 3.32 | 0.99 | G9.5 IIIa | 22 | 0.0 | 150 | 0.117 | 185 | +13 | | |
| γ[2] Sgr | 18 07.0 | −30 25 | 2.98 | 0.98 | K0 III | 34 | 0.6 | 97 | 0.189 | 197 | +22 SB | | Alnasl |
| η Sgr A | 18 18.9 | −36 45 | 3.10v | 1.5 | M3.5 IIIab | 22 | −0.2 | ~146 | 0.211 | 218 | +1 V? | irreg. var.: 3.05–3.12; B: 8.33, G8: IV:, 3.5″ (2016) | |
| | | | | | | | | | | | | PA: 100°→110°, 1879 →2016; orbit ≥1270 y | |
| δ Sgr | 18 22.2 | −29 49 | 2.72 | 1.38 | K2.5 IIIa | 9 | −2.4 | 350 | 0.041 | 128 | −20 V? | | Kaus Meridionalis |
| η Ser | 18 22.3 | −2 54 | 3.23 | 0.94 | K0 III–IV | 54 | 1.9 | ~60.5 | 0.890 | 218 | +9 V? | | |
| ε Sgr | 18 25.4 | −34 22 | 1.79 | −0.03 | A0 IIn (shell?) | 23 | −1.4 | ~143 | 0.130 | 198 | −15 | | **Kaus Australis** |
| α Tel | 18 28.3 | −45 57 | 3.49 | −0.18 | B3 IV | 12 | −1.2 | 280 | 0.056 | 198 | 0 V? | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| λ Sgr | 18 29.1 | −25 25 | 2.82 | 1.02 | K1 IIIb | ~41.7 | 0.9 | 78 | 0.191 | 194 | −43 V? | | Kaus Media |
| α Lyr | 18 37.6 | +38 48 | 0.03 | 0.00 | A0 Va | 130 | 0.6 | 25.0 | 0.350 | 35 | −14 V | protoplanetary debris? | **Vega** |
| | | | | | | | | | | | | E(B-V)=0.00 | |
| φ Sgr | 18 46.8 | −26 58 | 3.17 | −0.11 | B8 III | 14 | −1.2 | 240 | 0.051 | 89 | +22 SB | apparent duplicity now discounted | |
| β Lyr | 18 50.8 | +33 23 | 3.52v | 0.00 | B7 Vpe (shell) | ~3.4 | −3.8 | ~960 | 0.004 | 152 | −19 SB | ecl.: 3.25–4.36, 13 d | Sheliak |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| σ Sgr | 18 56.4 | −26 16 | 2.05 | −0.13 | B3 IV | 14 | −2.2 | 230 | 0.056 | 164 | −11V | | **Nunki** |
| | | | | | | | | | | | | E(B-V)=+0.02 | |
| ξ[2] Sgr | 18 58.8 | −21 05 | 3.52 | 1.15 | K1 III | 9 | −1.7 | 400 | 0.034 | 113 | −20 | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| γ Lyr | 18 59.6 | +32 43 | 3.25 | −0.05 | B9 II | 5 | −3.1 | 600 | 0.003 | 290 | −21 V | | Sulafat |
| ζ Sgr AB | 19 03.8 | −29 51 | 2.60 | 0.06 | A2 IV–V + A4:V: | 37 | 0.4 | 90 | n.a. | n.a. | +22 SB | A: 3.2; B: 3.5, 0.6″ (2016), orbit 21.1 y | |
| ζ Aql A | 19 06.3 | +13 54 | 2.99 | 0.01 | A0 Vann | ~39.3 | 1.0 | 83 | 0.096 | 184 | −25 SB | | |
| λ Aql | 19 07.2 | −4 51 | 3.43 | −0.10 | B9 Vnp (kB7HeA0) | 26 | 0.5 | 120 | 0.093 | 192 | −12 V | | |
| τ Sgr | 19 08.1 | −27 38 | 3.32 | 1.17 | K1.5 IIIb | 27 | 0.5 | 120 | 0.255 | 191 | +45 SB | | |
| π Sgr ABC | 19 10.9 | −21 00 | 2.88 | 0.38 | F2 II–III | 6 | −3.1 | 500 | 0.036 | 182 | −10 | A: 3.7; B: 3.8 0.1″ (1989); C: 6.0, AB-CD<1″? | |
| δ Dra | 19 12.6 | +67 42 | 3.07 | 0.99 | G9 III | 33.5 | 0.7 | 97 | 0.133 | 46 | +25 V | | Altais |
| δ Aql | 19 26.4 | +3 09 | 3.36 | 0.32 | F2 IV | 64 | 2.4 | 51 | 0.268 | 72 | −30 SB | | |
| β Cyg A | 19 31.5 | +28 00 | 3.36 | 1.09 | K3 II + B9.5 V | 8 | −2.3 | 430 | 0.009 | 229 | −24 V | B: 5.11, 35″; Aa, Ac: Δm = 1.5, 0.4″ (2008) | Albireo |
| | | | | | | | | | | | | if AB is true binary, orbit is posibly ≥ 100,000 y; | |
| | | | | | | | | | | | | the competing mere-optical-companions thesis | |
| | | | | | | | | | | | | is argued by Bob King in *Sky & Tel.* 2016-09-21 | |
| δ Cyg AB | 19 45.6 | +45 11 | 2.86 | 0.00 | B9.5 III | 20 | −0.7 | 160 | ~0.066 | ~42 | −20 SB | B: 6.4, F1 V; 2.7″, PA:41°→215°, 1826→2016 | |
| | | | | | | | | | | | | orbit 780 y | |
| | | | | | | | | | | | | E(B-V)=+0.05 | |
| γ Aql | 19 47.1 | +10 40 | 2.72 | 1.51 | K3 II | ~8.3 | −2.7 | 390 | 0.017 | 100 | −2 V | | Tarazed |
| α Aql | 19 51.7 | +8 55 | 0.76 | 0.22 | A7 Vnn | 195 | 2.2 | 16.7 | 0.660 | 54 | −26 | | **Altair** |
| η Aql | 19 53.4 | +1 03 | 3.87v | 0.63 | F6–G1 Ib | 2 | −4.3 | 1000 | 0.011 | 140 | −15 SB | Cepheid var.: 3.48–4.39, 7.2 d | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| γ Sge | 19 59.6 | +19 33 | 3.51 | 1.57 | M0 III | 13 | −1.0 | 260 | 0.070 | 71 | −33 V? | | |
| | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| θ Aql | 20 12.3 | −0 46 | 3.24 | −0.07 | B9.5 III | 11 | −1.5 | 290 | 0.036 | 81 | −27 SB2 | | |
| β Cap A | 20 22.0 | −14 43 | 3.05 | 0.79 | K0: II: + A5: V:n | 10 | −2.0 | 300 | 0.046 | 81 | −19 SB | A: mult.: 4.0 + 4.3 + 4.8 + 6.7, <1″ | Dabih |
| γ Cyg | 20 22.9 | +40 19 | 2.23 | 0.67 | F8 Ib | 2 | −6.5 | 2000 | 0.003 | 111 | −8 V | | Sadr |
| α Pav | 20 27.1 | −56 40 | 1.94 | −0.12 | B2.5 V | 18 | −1.8 | 180 | 0.086 | 175 | +2 SB | | **Peacock** |
| | | | | | | | | | | | | E(B-V)=+0.02 | |
| α Ind | 20 38.9 | −47 14 | 3.11 | 1.00 | K0 III CN–1 | 33 | 0.7 | 98 | 0.083 | 37 | −1 | | |
| α Cyg | 20 42.1 | +45 21 | 1.25 | 0.09 | A2 Ia | 2 | −6.9 | ~1400 | 0.003 | 47 | −5 SB | | **Deneb** |
| η Cep | 20 45.7 | +61 55 | 3.41 | 0.91 | K0 IV | 70.1 | 2.6 | 46.5 | 0.823 | 6 | −87 | | |
| β Pav | 20 46.6 | −66 08 | 3.42 | 0.16 | A6 IV | ~24.1 | 0.3 | 135 | 0.044 | 283 | +10 | | |
| ε Cyg | 20 47.0 | +34 02 | 2.48 | 1.02 | K0 III | 44.9 | 0.7 | 73 | 0.486 | 47 | −11 SB? | B(75″): optical; C: shared p-motion, 78″ | |
| | | | | | | | | | | | | AC orbit ≥ 50,000 y; no PA change seen yet | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ζ | Cyg | 21 13.7 | +30 18 | 3.21 | 0.99 | G8 IIIa Ba 0.5 | 23 | 0.0 | 140 | 0.069 | 175 | +17 SB | | |
| α | Cep | 21 19.0 | +62 40 | 2.45 | 0.26 | A7 Van | 66.5 | 1.6 | 49.1 | 0.158 | 72 | −10 V | | Alderamin |
| β | Cep | 21 28.9 | +70 39 | 3.23v | −0.20 | B1 III | 5 | −3.4 | 700 | 0.015 | 56 | −8 SB | var.: 3.16–3.27, 0.19 d; B: 7.8; 13.5″ (2016) | Alfirk |
| | | | | | | | | | | | | | PA: 255°→251°, 1779 →2016; orbit ≥ 40,000 y | |
| | | | | | | | | | | | | | prototype β Cep variable | |
| β | Aqr | 21 32.5 | −5 29 | 2.9 | 0.83 | G0 Ib | 6 | −3.2 | 500 | 0.020 | 114 | +7 V? | | Sadalsuud |
| ε | Peg | 21 45.1 | +9 58 | 2.38v | 1.52 | K2 Ib | 5 | −4.2 | 700 | 0.027 | 89 | +5 V | irregular var.: 0.7–3.5 (flare in 1972) | **Enif** |
| | | | | | | | | | | | | | BSC5 suggests "cooler shell surrounding" | |
| δ | Cap | 21 48.1 | −16 03 | 2.85v | 0.18 | A3mF2 IV: | 84 | 2.5 | 38.7 | 0.396 | 139 | −6 SB | occ. bin.: 2.81–3.05, 1.0 d, 3.2 + 5.2 | Deneb Algedi |
| γ | Gru | 21 55.0 | −37 17 | 3.00 | −0.08 | B8 IV–Vs | 15 | −1.1 | 210 | 0.099 | 98 | −2 V? | | |
| α | Aqr | 22 06.7 | −0 14 | 2.95 | 0.97 | G2 Ib | 6 | −3.1 | ~520 | 0.021 | 117 | +8 V? | | Sadalmelik |
| α | Gru | 22 09.4 | −46 52 | 1.73 | −0.07 | B7 Vn | 32 | −0.7 | 101 | 0.194 | 139 | +12 | | **Alnair** |
| | | | | | | | | | | | | | E(B-V)=-0.02 | |
| θ | Peg | 22 11.1 | +6 17 | 3.52 | 0.09 | A2mA1 IV–V | 35 | 1.3 | 90 | 0.284 | 84 | −6 SB2 | | Biham |
| | | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| ζ | Cep | 22 11.5 | +58 18 | 3.39 | 1.56 | K1.5 Ib | 3.9 | −3.7 | 800 | 0.014 | 69 | −18 SB | | |
| α | Tuc | 22 19.8 | −60 10 | 2.87 | 1.39 | K3 III | 16 | −1.1 | 200 | 0.081 | 241 | +42 SB | | |
| δ | Cep A | 22 29.9 | +58 31 | 4.07v | 0.78 | F5–G2 Ib | 4 | −3.0 | 900 | 0.016 | 77 | −15 SB | prototype Cepheid var.: 3.48–4.37, 5.4 d | |
| | | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| ζ | Peg | 22 42.4 | +10 56 | 3.41 | −0.09 | B8.5 III | 16 | −0.6 | 210 | 0.078 | 98 | +7 V? | | Homam |
| β | Gru | 22 43.8 | −46 47 | 2.07v | 1.61 | M5 III | 18 | −1.6 | 180 | 0.135 | 92 | +2 | irregular var.: 2.0–2.3 | |
| η | Peg | 22 43.9 | +30 19 | 2.93 | 0.85 | G8 II + F0 V | 15 | −1.2 | 210 | 0.029 | 153 | +4 SB | | Matar |
| ε | Gru | 22 49.7 | −51 13 | 3.49 | 0.08 | A2 Va | 25 | 0.5 | 130 | 0.126 | 121 | 0 V | | |
| | | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| ι | Cep | 22 50.3 | +66 18 | 3.50 | 1.05 | K0 III | 28.3 | 0.8 | 115 | 0.141 | 208 | −12 | | |
| | | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| μ | Peg | 22 50.9 | +24 42 | 3.51 | 0.93 | G8 III | 31 | 0.9 | 106 | 0.151 | 106 | +14 | | Sadalbari |
| | | | | | | | | | | | | | **[THIS STAR ONLY IN ONLINE VERSION OF TABLE]** | |
| δ | Aqr | 22 55.6 | −15 43 | 3.27 | 0.07 | A3 IV–V | 20 | −0.2 | 160 | 0.051 | 237 | +18 V | (wk λ4481) | Skat |
| α | PsA +1P | 22 58.7 | −29 31 | 1.17 | 0.14 | A3 Va | 130 | 1.7 | 25.1 | 0.368 1 | 17 | +7 | exoplanet image published 2008 | **Fomalhaut** |
| β | Peg | 23 04.7 | +28 11 | 2.44v | 1.66 | M2 II–III | 16.6 | −1.5 | ~196 | 0.232 | 54 | +9 V | irregular var.: 2.31–2.74 | Scheat |
| α | Peg | 23 05.7 | +15 18 | 2.49 | 0.00 | A0 III–IV | 24 | −0.6 | 133 | 0.073 | 124 | −4 SB | | **Markab** |
| γ | Cep +1P | 23 40.1 | +77 44 | 3.21 | 1.03 | K1 III–IV | 71 | 2.5 | 46 | 0.135 | 339 | −42 V? | | Errai |