

## CELESTIAL COORDINATES OF BRIGHT STARS

This list of Bright Stars is designed to closely match section H of the Astronomical Almanac. Where the AA lists "Designation" the list below lists designation and magnitude (where the star has a proper name this list gives the name, rather than the designation), and adds the magnitude as formerly listed in section H of the AA.

Each listed star is uniquely identified by its number in the Yale Bright Star Catalog (BSC).

The listed coordinates give the coordinates of the star corrected for proper motion and precession, and should agree with the AA to plus or minus one or two in the least significant digit.

In those cases where a reliable assessment of the star's proper motion is lacking the star has been omitted from this listing.

You may also find AA data at <https://aa.usno.navy.mil/publications/>  
However, much of the data you will see there is years out of date.

The reference date for this list is  $J2024.5 = 2024 \text{ July } 2.125 = \text{JD}2460493.625$



| Designation and Magnitude  | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------|------|-----------------|----|------|-------------|----|----|
|                            |      | h               | m  | s    | deg         | m  | s  |
| pi Phoenicis 5.13          | 9069 | 0               | 00 | 11.3 | -52         | 36 | 32 |
| theta Octantis 4.78        | 9084 | 0               | 02 | 49.1 | -76         | 55 | 50 |
| 30 YY Piscium 4.37         | 9089 | 0               | 03 | 12.8 | -5          | 52 | 41 |
| 2 Ceti 4.55                | 9098 | 0               | 04 | 59.5 | -17         | 11 | 59 |
| 33 BC Piscium 4.61         | 3    | 0               | 06 | 35.3 | -5          | 34 | 14 |
| Alpheratz 2.07             | 15   | 0               | 09 | 39.5 | 29          | 13 | 32 |
| Caph 2.28                  | 21   | 0               | 10 | 30.0 | 59          | 17 | 05 |
| epsilon Phoenicis 3.88     | 25   | 0               | 10 | 38.7 | -45         | 36 | 45 |
| 22 Andromedae 5.01         | 27   | 0               | 11 | 36.2 | 46          | 12 | 31 |
| kappa^2 Sculptoris 5.41    | 34   | 0               | 12 | 48.7 | -27         | 39 | 49 |
| theta Sculptoris 5.24      | 35   | 0               | 12 | 58.3 | -34         | 59 | 46 |
| Algenib 2.83               | 39   | 0               | 14 | 29.8 | 15          | 19 | 11 |
| 89 chi Pegasi 4.79         | 45   | 0               | 15 | 52.4 | 20          | 20 | 34 |
| 7 AE Ceti 4.44             | 48   | 0               | 15 | 52.8 | -18         | 47 | 51 |
| 25 sigma Andromedae 4.51   | 68   | 0               | 19 | 36.8 | 36          | 55 | 16 |
| 8 iota Ceti 3.56           | 74   | 0               | 20 | 40.4 | -8          | 41 | 17 |
| zeta Tucanae 4.23          | 77   | 0               | 21 | 19.8 | -64         | 43 | 51 |
| 41 Piscium 5.38            | 80   | 0               | 21 | 51.5 | 8           | 19 | 34 |
| 27 rho Andromedae 5.16     | 82   | 0               | 22 | 25.1 | 38          | 06 | 14 |
| R Andromedae 10.71         | 90   | 0               | 25 | 19.9 | 38          | 42 | 44 |
| beta Hydri 2.82            | 98   | 0               | 27 | 00.1 | -77         | 07 | 00 |
| kappa Phoenicis 3.93       | 100  | 0               | 27 | 24.0 | -43         | 32 | 39 |
| Ankaa 2.4                  | 99   | 0               | 27 | 29.3 | -42         | 10 | 23 |
| BSC118 5.17                | 118  | 0               | 31 | 35.8 | -23         | 39 | 09 |
| lambda^1 Phoenicis 4.76    | 125  | 0               | 32 | 35.3 | -48         | 40 | 06 |
| beta^1 Tucanae 4.36        | 126  | 0               | 32 | 39.3 | -62         | 49 | 24 |
| 15 kappa Cassiopeiae 4.17  | 130  | 0               | 34 | 24.7 | 63          | 04 | 00 |
| 29 pi Andromedae 4.34      | 154  | 0               | 38 | 11.6 | 33          | 51 | 13 |
| 17 zeta Cassiopeiae 3.69   | 153  | 0               | 38 | 20.9 | 54          | 01 | 52 |
| BSC157 5.45                | 157  | 0               | 38 | 40.3 | 35          | 32 | 03 |
| 30 epsilon Andromedae 4.34 | 163  | 0               | 39 | 51.3 | 29          | 26 | 40 |
| 31 delta Andromedae 3.27   | 165  | 0               | 40 | 38.5 | 30          | 59 | 41 |
| Schedar 2.24               | 168  | 0               | 41 | 54.7 | 56          | 40 | 17 |
| mu Phoenicis 4.59          | 180  | 0               | 42 | 28.5 | -45         | 57 | 03 |
| eta Phoenicis 4.36         | 191  | 0               | 44 | 26.7 | -57         | 19 | 45 |
| Diphda 2.04                | 188  | 0               | 44 | 48.9 | -17         | 51 | 09 |
| 22 o Cassiopeiae 4.48      | 193  | 0               | 46 | 06.1 | 48          | 25 | 05 |
| 34 zeta Andromedae 4.08    | 215  | 0               | 48 | 38.5 | 24          | 24 | 00 |
| lambda Hydri 5.09          | 236  | 0               | 49 | 25.9 | -74         | 47 | 26 |
| 63 delta Piscium 4.44      | 224  | 0               | 49 | 57.2 | 7           | 43 | 05 |
| 64 Piscium 5.07            | 225  | 0               | 50 | 16.1 | 17          | 04 | 21 |
| 24 eta Cassiopeiae 3.46    | 219  | 0               | 50 | 36.3 | 57          | 56 | 39 |
| 35 nu Andromedae 4.53      | 226  | 0               | 51 | 10.4 | 41          | 12 | 43 |
| 19 phi^2 Ceti 5.17         | 235  | 0               | 51 | 21.1 | -10         | 30 | 46 |
| BSC233 5.35                | 233  | 0               | 52 | 14.1 | 64          | 22 | 49 |

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| 20 Ceti 4.78              | 248  | 0               | 54 | 15.6 | -1          | 00 | 42 |
| lambda^2 Tucanae 5.45     | 270  | 0               | 55 | 54.6 | -69         | 23 | 42 |
| 37 mu Andromedae 3.86     | 269  | 0               | 58 | 07.2 | 38          | 37 | 55 |
| 27 gamma Cassiopeiae 2.15 | 264  | 0               | 58 | 12.4 | 60          | 50 | 55 |
| 38 eta Andromedae 4.4     | 271  | 0               | 58 | 31.1 | 23          | 32 | 58 |
| 68 Piscium 5.44           | 274  | 0               | 59 | 10.0 | 29          | 07 | 27 |
| alpha Sculptoris 4.3      | 280  | 0               | 59 | 46.9 | -29         | 13 | 32 |
| sigma Sculptoris 5.5      | 293  | 1               | 03 | 36.3 | -31         | 25 | 14 |
| 71 epsilon Piscium 4.27   | 294  | 1               | 04 | 12.9 | 8           | 01 | 18 |
| beta Phoenicis 3.32       | 322  | 1               | 07 | 10.2 | -46         | 35 | 14 |
| iota Tucanae 5.36         | 332  | 1               | 08 | 16.4 | -61         | 38 | 42 |
| upsilon Phoenicis 5.21    | 331  | 1               | 08 | 54.7 | -41         | 21 | 23 |
| zeta Phoenicis 3.94       | 338  | 1               | 09 | 24.4 | -55         | 06 | 55 |
| 31 eta Ceti 3.46          | 334  | 1               | 09 | 49.2 | -10         | 03 | 11 |
| 30 mu Cassiopeiae 5.17    | 321  | 1               | 09 | 55.3 | 55          | 02 | 23 |
| 42 phi Andromedae 4.26    | 335  | 1               | 10 | 56.1 | 47          | 22 | 18 |
| Mirach 2.07               | 337  | 1               | 11 | 06.6 | 35          | 44 | 59 |
| 33 theta Cassiopeiae 4.34 | 343  | 1               | 12 | 36.6 | 55          | 16 | 46 |
| BSC285 4.24               | 285  | 1               | 12 | 36.8 | 86          | 23 | 13 |
| 84 chi Piscium 4.66       | 351  | 1               | 12 | 46.4 | 21          | 09 | 51 |
| 83 tau Piscium 4.51       | 352  | 1               | 13 | 00.9 | 30          | 13 | 09 |
| 86 zeta Piscium 5.21      | 361  | 1               | 15 | 00.7 | 7           | 42 | 16 |
| 89 Piscium 5.13           | 378  | 1               | 19 | 03.8 | 3           | 44 | 34 |
| 90 epsilon Piscium 4.74   | 383  | 1               | 20 | 49.1 | 27          | 23 | 32 |
| 34 phi Cassiopeiae 4.95   | 382  | 1               | 21 | 38.5 | 58          | 21 | 35 |
| Adhil 4.87                | 390  | 1               | 23 | 47.6 | 45          | 39 | 23 |
| 45 theta Ceti 3.6         | 402  | 1               | 25 | 14.8 | -8          | 03 | 27 |
| Ruchbah 2.66              | 403  | 1               | 27 | 26.3 | 60          | 21 | 42 |
| 36 psi Cassiopeiae 4.72   | 399  | 1               | 27 | 41.8 | 68          | 15 | 25 |
| 94 Piscium 5.5            | 414  | 1               | 28 | 01.2 | 19          | 22 | 00 |
| 48 omega Andromedae 4.83  | 417  | 1               | 29 | 07.9 | 45          | 31 | 57 |
| gamma Phoenicis 3.41      | 429  | 1               | 29 | 25.5 | -43         | 11 | 36 |
| 48 Ceti 5.11              | 433  | 1               | 30 | 46.6 | -21         | 30 | 12 |
| delta Phoenicis 3.93      | 440  | 1               | 32 | 16.0 | -48         | 56 | 45 |
| 99 eta Piscium 3.62       | 437  | 1               | 32 | 47.8 | 15          | 28 | 16 |
| Titawin 4.1               | 458  | 1               | 38 | 14.6 | 41          | 31 | 37 |
| Achernar 0.45             | 472  | 1               | 38 | 37.2 | -57         | 06 | 47 |
| 51 Andromedae 3.59        | 464  | 1               | 39 | 30.5 | 48          | 45 | 04 |
| 40 Cassiopeiae 5.28       | 456  | 1               | 40 | 31.4 | 73          | 09 | 49 |
| 106 nu Piscium 4.45       | 489  | 1               | 42 | 42.5 | 5           | 36 | 39 |
| pi Sculptoris 5.25        | 497  | 1               | 43 | 14.7 | -32         | 12 | 16 |
| BSC500 4.98               | 500  | 1               | 43 | 57.8 | -3          | 34 | 04 |
| 52 tau Ceti 3.49          | 509  | 1               | 45 | 12.3 | -15         | 48 | 33 |
| phi Persei 4.01           | 496  | 1               | 45 | 12.6 | 50          | 48 | 40 |
| 110 o Piscium 4.26        | 510  | 1               | 46 | 41.4 | 9           | 16 | 48 |

| Designation and Magnitude    | BSC# | Right Ascension |    |      | Declination |    |    |
|------------------------------|------|-----------------|----|------|-------------|----|----|
|                              |      | h               | m  | s    | deg         | m  | s  |
| epsilon Sculptoris 5.29      | 514  | 1               | 46 | 47.4 | -24         | 55 | 52 |
| BSC513 5.37                  | 513  | 1               | 47 | 13.0 | -5          | 36 | 42 |
| 53 chi Ceti 4.66             | 531  | 1               | 50 | 47.3 | -10         | 33 | 58 |
| Baten Kaitos 3.74            | 539  | 1               | 52 | 40.2 | -10         | 12 | 53 |
| Mothallah 3.42               | 544  | 1               | 54 | 29.0 | 29          | 41 | 50 |
| psi Phoenicis 4.39           | 555  | 1               | 54 | 37.3 | -46         | 11 | 01 |
| 111 xi Piscium 4.61          | 549  | 1               | 54 | 49.5 | 3           | 18 | 27 |
| phi Phoenicis 5.12           | 558  | 1               | 55 | 22.8 | -42         | 22 | 39 |
| eta <sup>2</sup> Hydri 4.68  | 570  | 1               | 55 | 33.5 | -67         | 31 | 38 |
| Sheratan 2.64                | 553  | 1               | 55 | 59.9 | 20          | 55 | 37 |
| 45 epsilon Cassiopeiae 3.35  | 542  | 1               | 56 | 11.1 | 63          | 47 | 22 |
| chi Eridani 3.69             | 566  | 1               | 56 | 54.5 | -51         | 29 | 16 |
| alpha Hydri 2.86             | 591  | 1               | 59 | 32.3 | -61         | 27 | 05 |
| 59 upsilon Ceti 3.99         | 585  | 2               | 01 | 09.4 | -20         | 57 | 36 |
| Alrescha 3.82                | 596  | 2               | 03 | 19.0 | 2           | 52 | 53 |
| 4 Persei 4.99                | 590  | 2               | 03 | 57.0 | 54          | 36 | 17 |
| Almach 2.1                   | 603  | 2               | 05 | 24.8 | 42          | 26 | 45 |
| 50 Cassiopeiae 3.95          | 580  | 2               | 05 | 34.7 | 72          | 32 | 18 |
| nu Fornacis 4.68             | 612  | 2               | 05 | 35.2 | -29         | 10 | 48 |
| Hamal 2.01                   | 617  | 2               | 08 | 33.5 | 23          | 34 | 38 |
| 4 beta Trianguli 3           | 622  | 2               | 11 | 00.6 | 35          | 06 | 07 |
| mu Fornacis 5.27             | 652  | 2               | 13 | 59.0 | -30         | 36 | 36 |
| 65 xi <sup>1</sup> Ceti 4.36 | 649  | 2               | 14 | 18.0 | 8           | 57 | 38 |
| BSC645 5.31                  | 645  | 2               | 15 | 15.0 | 51          | 10 | 42 |
| BSC641 6.43                  | 641  | 2               | 15 | 26.6 | 58          | 40 | 26 |
| phi Eridani 3.56             | 674  | 2               | 17 | 22.9 | -51         | 23 | 59 |
| 67 Ceti 5.51                 | 666  | 2               | 18 | 12.4 | -6          | 18 | 38 |
| 9 gamma Trianguli 4.03       | 664  | 2               | 18 | 46.6 | 33          | 57 | 34 |
| Mira 6.47                    | 681  | 2               | 20 | 35.1 | -2          | 52 | 03 |
| 62 Andromedae 5.31           | 670  | 2               | 20 | 52.3 | 47          | 29 | 30 |
| delta Hydri 4.08             | 705  | 2               | 22 | 11.4 | -68         | 32 | 54 |
| kappa Hydri 5.99             | 715  | 2               | 23 | 02.2 | -73         | 32 | 06 |
| kappa Fornacis 5.19          | 695  | 2               | 23 | 39.6 | -23         | 42 | 21 |
| lambda Horologii 5.36        | 714  | 2               | 25 | 35.0 | -60         | 12 | 11 |
| 72 rho Ceti 4.88             | 708  | 2               | 27 | 08.0 | -12         | 10 | 52 |
| kappa Eridani 4.24           | 721  | 2               | 27 | 52.9 | -47         | 35 | 41 |
| 73 xi <sup>2</sup> Ceti 4.3  | 718  | 2               | 29 | 27.8 | 8           | 34 | 06 |
| 12 Trianguli 5.29            | 717  | 2               | 29 | 36.5 | 29          | 46 | 38 |
| iota Cassiopeiae 4.46        | 707  | 2               | 31 | 07.0 | 67          | 30 | 39 |
| mu Hydri 5.27                | 776  | 2               | 31 | 13.0 | -79         | 00 | 07 |
| 76 sigma Ceti 4.74           | 740  | 2               | 33 | 14.9 | -15         | 08 | 18 |
| 14 Trianguli 5.15            | 736  | 2               | 33 | 36.3 | 36          | 15 | 16 |
| 78 nu Ceti 4.87              | 754  | 2               | 37 | 09.7 | 5           | 41 | 56 |
| BSC753 5.79                  | 753  | 2               | 37 | 25.6 | 7           | 00 | 09 |

epsilon Hydri 4.12                      806            2 39 58.4            -68 09 45

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 4

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| 32 nu Arietis 5.45        | 773  | 2               | 40 | 12.7 | 22          | 03 | 57 |
| BSC743 5.17               | 743  | 2               | 40 | 25.1 | 72          | 55 | 23 |
| 82 delta Ceti 4.08        | 779  | 2               | 40 | 44.4 | 0           | 25 | 59 |
| zeta Horologii 5.21       | 802  | 2               | 41 | 25.3 | -54         | 26 | 45 |
| iota Eridani 4.11         | 794  | 2               | 41 | 37.9 | -39         | 45 | 05 |
| 86 gamma Ceti 3.47        | 804  | 2               | 44 | 34.3 | 3           | 20 | 16 |
| 35 Arietis 4.65           | 801  | 2               | 44 | 53.6 | 27          | 48 | 35 |
| 89 pi Ceti 4.24           | 811  | 2               | 45 | 17.2 | -13         | 45 | 22 |
| 14 Persei 5.43            | 800  | 2               | 45 | 41.5 | 44          | 23 | 58 |
| 13 theta Persei 4.1       | 799  | 2               | 45 | 53.1 | 49          | 19 | 50 |
| 1 tau^1 Eridani 4.47      | 818  | 2               | 46 | 14.7 | -18         | 28 | 12 |
| 87 mu Ceti 4.27           | 813  | 2               | 46 | 16.1 | 10          | 12 | 59 |
| beta Fornacis 4.45        | 841  | 2               | 50 | 06.9 | -32         | 18 | 14 |
| 41 Arietis 3.61           | 838  | 2               | 51 | 25.9 | 27          | 21 | 35 |
| 16 Persei 4.22            | 840  | 2               | 52 | 08.2 | 38          | 25 | 04 |
| 2 tau^2 Eridani 4.76      | 850  | 2               | 52 | 08.9 | -20         | 54 | 15 |
| 15 eta Persei 3.77        | 834  | 2               | 52 | 30.1 | 55          | 59 | 43 |
| 43 sigma Arietis 5.52     | 847  | 2               | 52 | 50.9 | 15          | 10 | 54 |
| R Horologii 7.22          | 868  | 2               | 54 | 41.5 | -49         | 47 | 25 |
| 18 tau Persei 3.93        | 854  | 2               | 56 | 00.6 | 52          | 51 | 40 |
| Azha 3.89                 | 874  | 2               | 57 | 37.4 | -8          | 48 | 08 |
| BSC875 5.16               | 875  | 2               | 57 | 51.2 | -3          | 36 | 55 |
| Acamar 2.88               | 897  | 2               | 59 | 11.3 | -40         | 12 | 28 |
| 24 Persei 4.94            | 882  | 3               | 00 | 35.1 | 35          | 16 | 47 |
| 91 lambda Ceti 4.71       | 896  | 3               | 01 | 01.9 | 9           | 00 | 12 |
| theta Hydri 5.51          | 939  | 3               | 02 | 19.4 | -71         | 48 | 25 |
| 11 tau^3 Eridani 4.08     | 919  | 3               | 03 | 28.3 | -23         | 31 | 47 |
| Menkar 2.54               | 911  | 3               | 03 | 33.6 | 4           | 11 | 04 |
| Polaris 1.97              | 424  | 3               | 03 | 41.0 | 89          | 21 | 56 |
| mu Horologii 5.12         | 934  | 3               | 04 | 11.5 | -59         | 38 | 36 |
| 23 gamma Persei 2.91      | 915  | 3               | 06 | 35.1 | 53          | 36 | 02 |
| 25 rho Persei 3.32        | 921  | 3               | 06 | 45.2 | 38          | 56 | 00 |
| BSC881 5.49               | 881  | 3               | 09 | 31.5 | 79          | 30 | 41 |
| Algol 2.09                | 936  | 3               | 09 | 46.3 | 41          | 02 | 53 |
| iota Persei 4.05          | 937  | 3               | 10 | 50.8 | 49          | 42 | 17 |
| 27 kappa Persei 3.79      | 941  | 3               | 11 | 09.4 | 44          | 56 | 55 |
| Botein 4.35               | 951  | 3               | 13 | 02.1 | 19          | 49 | 04 |
| alpha Fornacis 3.8        | 963  | 3               | 13 | 07.1 | -28         | 53 | 34 |
| TW Horologii 5.71         | 977  | 3               | 13 | 10.4 | -57         | 13 | 50 |
| 94 Ceti 5.07              | 962  | 3               | 14 | 01.5 | -1          | 06 | 22 |
| 58 zeta Arietis 4.87      | 972  | 3               | 16 | 18.8 | 21          | 08 | 00 |
| Zibal 4.8                 | 984  | 3               | 17 | 01.4 | -8          | 43 | 48 |
| 29 Persei 5.16            | 987  | 3               | 20 | 23.1 | 50          | 18 | 36 |

|                                 |      |   |    |      |     |    |    |
|---------------------------------|------|---|----|------|-----|----|----|
| 16 tau <sup>4</sup> Eridani 3.7 | 1003 | 3 | 20 | 36.3 | -21 | 40 | 12 |
| 96 kappa Ceti 4.84              | 996  | 3 | 20 | 38.8 | 3   | 27 | 31 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 5

| Designation and Magnitude        | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------------|------|-----------------|----|------|-------------|----|----|
|                                  |      | h               | m  | s    | deg         | m  | s  |
| BSC1008 4.26                     | 1008 | 3               | 20 | 54.3 | -42         | 58 | 39 |
| BSC999 4.47                      | 999  | 3               | 21 | 49.6 | 29          | 08 | 08 |
| 61 tau Arietis 5.27              | 1005 | 3               | 22 | 38.7 | 21          | 14 | 01 |
| BSC961 5.44                      | 961  | 3               | 23 | 32.0 | 77          | 49 | 16 |
| Mirfak 1.79                      | 1017 | 3               | 26 | 05.0 | 49          | 56 | 47 |
| 1 o Tauri 3.61                   | 1030 | 3               | 26 | 08.0 | 9           | 06 | 48 |
| BSC1009 5.13                     | 1009 | 3               | 26 | 49.7 | 64          | 40 | 15 |
| BSC1029 6.09                     | 1029 | 3               | 27 | 42.3 | 49          | 12 | 18 |
| 2 xi Tauri 3.73                  | 1038 | 3               | 28 | 29.9 | 9           | 49 | 00 |
| kappa Reticuli 4.71              | 1083 | 3               | 29 | 48.6 | -62         | 51 | 07 |
| BSC1035 4.21                     | 1035 | 3               | 31 | 04.3 | 60          | 01 | 24 |
| 17 Eridani 4.74                  | 1070 | 3               | 31 | 50.0 | -4          | 59 | 33 |
| BSC1040 4.55                     | 1040 | 3               | 31 | 53.1 | 58          | 57 | 41 |
| 5 Tauri 4.14                     | 1066 | 3               | 32 | 13.6 | 13          | 01 | 08 |
| 35 sigma Persei 4.36             | 1052 | 3               | 32 | 18.8 | 48          | 04 | 39 |
| Ran 3.72                         | 1084 | 3               | 34 | 05.1 | -9          | 22 | 36 |
| 19 tau <sup>5</sup> Eridani 4.26 | 1088 | 3               | 34 | 52.2 | -21         | 33 | 08 |
| 20 EG Eridani 5.24               | 1100 | 3               | 37 | 24.3 | -17         | 23 | 15 |
| BSC1106 4.57                     | 1106 | 3               | 37 | 58.4 | -40         | 11 | 43 |
| 10 Tauri 4.29                    | 1101 | 3               | 38 | 07.4 | 0           | 28 | 40 |
| 37 psi Persei 4.32               | 1087 | 3               | 38 | 14.5 | 48          | 16 | 18 |
| delta Fornacis 4.99              | 1134 | 3               | 43 | 13.3 | -31         | 51 | 41 |
| BD Camelopardalis 5.06           | 1105 | 3               | 44 | 18.2 | 63          | 17 | 38 |
| 23 delta Eridani 3.52            | 1136 | 3               | 44 | 25.4 | -9          | 40 | 56 |
| beta Reticuli 3.84               | 1175 | 3               | 44 | 30.7 | -64         | 43 | 50 |
| 39 delta Persei 3.01             | 1122 | 3               | 44 | 40.7 | 47          | 51 | 49 |
| 24 Eridani 5.24                  | 1146 | 3               | 45 | 45.2 | -1          | 05 | 14 |
| Atik 3.84                        | 1131 | 3               | 45 | 51.6 | 32          | 21 | 50 |
| Electra 3.72                     | 1142 | 3               | 46 | 20.1 | 24          | 11 | 19 |
| Taygeta 4.3                      | 1145 | 3               | 46 | 40.2 | 24          | 32 | 32 |
| 41 nu Persei 3.77                | 1135 | 3               | 46 | 51.9 | 42          | 39 | 14 |
| gamma Hydri 3.26                 | 1208 | 3               | 46 | 53.1 | -74         | 09 | 48 |
| 29 Tauri 5.34                    | 1153 | 3               | 46 | 58.7 | 6           | 07 | 30 |
| Maia 3.87                        | 1149 | 3               | 47 | 17.3 | 24          | 26 | 33 |
| 26 pi Eridani 4.43               | 1162 | 3               | 47 | 18.0 | -12         | 01 | 35 |
| Merope 4.14                      | 1156 | 3               | 47 | 47.0 | 24          | 01 | 23 |
| 27 tau <sup>6</sup> Eridani 4.22 | 1173 | 3               | 47 | 54.1 | -23         | 10 | 44 |
| Alcyone 2.85                     | 1165 | 3               | 48 | 56.7 | 24          | 10 | 45 |
| BSC1195 4.17                     | 1195 | 3               | 50 | 22.1 | -36         | 07 | 38 |
| Atlas 3.62                       | 1178 | 3               | 50 | 37.4 | 24          | 07 | 35 |
| BE Camelopardalis 4.39           | 1155 | 3               | 51 | 47.4 | 65          | 35 | 56 |
| gamma Camelopardalis 4.59        | 1148 | 3               | 52 | 59.1 | 71          | 24 | 16 |

|                     |      |   |    |      |     |    |    |
|---------------------|------|---|----|------|-----|----|----|
| Atik 2.84           | 1203 | 3 | 55 | 40.6 | 31  | 57 | 16 |
| delta Reticuli 4.56 | 1247 | 3 | 59 | 08.3 | -61 | 19 | 53 |
| Zaurak 2.97         | 1231 | 3 | 59 | 10.3 | -13 | 26 | 25 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 6

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| 45 epsilon Persei 2.9     | 1220 | 3               | 59 | 30.3 | 40          | 04 | 44 |
| Menkib 3.98               | 1228 | 4               | 00 | 33.6 | 35          | 51 | 34 |
| 35 lambda Tauri 3.41      | 1239 | 4               | 02 | 02.4 | 12          | 33 | 28 |
| 35 Eridani 5.28           | 1244 | 4               | 02 | 46.6 | -1          | 28 | 57 |
| 38 nu Tauri 3.91          | 1251 | 4               | 04 | 27.7 | 6           | 03 | 20 |
| 37 Tauri 4.36             | 1256 | 4               | 06 | 08.7 | 22          | 08 | 49 |
| 47 lambda Persei 4.25     | 1261 | 4               | 08 | 25.1 | 50          | 24 | 55 |
| BSC1279 6.02              | 1279 | 4               | 09 | 05.3 | 15          | 13 | 35 |
| 48 MX Persei 3.96         | 1273 | 4               | 10 | 26.9 | 47          | 46 | 32 |
| 43 Tauri 5.51             | 1283 | 4               | 10 | 35.7 | 19          | 40 | 19 |
| BSC1270 6.29              | 1270 | 4               | 11 | 32.9 | 59          | 58 | 15 |
| 44 IM Tauri 5.39          | 1287 | 4               | 12 | 19.6 | 26          | 32 | 34 |
| Beid 4.04                 | 1298 | 4               | 13 | 03.7 | -6          | 46 | 31 |
| alpha Reticuli 3.33       | 1336 | 4               | 14 | 44.6 | -62         | 24 | 46 |
| alpha Horologii 3.85      | 1326 | 4               | 14 | 48.9 | -42         | 14 | 07 |
| Keid 4.43                 | 1325 | 4               | 16 | 23.9 | -7          | 36 | 59 |
| gamma Doradus 4.26        | 1338 | 4               | 16 | 40.2 | -51         | 25 | 32 |
| 51 mu Persei 4.12         | 1303 | 4               | 16 | 42.3 | 48          | 28 | 08 |
| 49 mu Tauri 4.27          | 1320 | 4               | 16 | 52.0 | 8           | 57 | 08 |
| epsilon Reticuli 4.44     | 1355 | 4               | 16 | 54.6 | -59         | 14 | 38 |
| 48 Tauri 6.31             | 1319 | 4               | 17 | 09.8 | 15          | 27 | 36 |
| 41 Eridani 3.55           | 1347 | 4               | 18 | 49.2 | -33         | 44 | 24 |
| 54 gamma Tauri 3.65       | 1346 | 4               | 21 | 11.3 | 15          | 41 | 05 |
| 57v483 Tau 5.58           | 1351 | 4               | 21 | 20.6 | 14          | 05 | 32 |
| BSC1367 5.38              | 1367 | 4               | 21 | 43.1 | -20         | 34 | 58 |
| 54 Persei 4.93            | 1343 | 4               | 22 | 00.4 | 34          | 37 | 25 |
| eta Reticuli 5.24         | 1395 | 4               | 22 | 09.5 | -63         | 19 | 43 |
| BSC1327 5.26              | 1327 | 4               | 22 | 59.8 | 65          | 11 | 49 |
| 61 delta Tauri 3.77       | 1373 | 4               | 24 | 21.0 | 17          | 35 | 53 |
| 63 Tauri 5.64             | 1376 | 4               | 24 | 49.5 | 16          | 49 | 56 |
| 42 xi Eridani 5.17        | 1383 | 4               | 24 | 54.1 | -3          | 41 | 26 |
| 43 Eridani 3.97           | 1393 | 4               | 24 | 57.4 | -33         | 57 | 40 |
| 65 kappa^1 Tauri 4.21     | 1387 | 4               | 26 | 49.9 | 22          | 20 | 52 |
| 68v776 Tau 4.3            | 1389 | 4               | 26 | 54.6 | 17          | 58 | 55 |
| 71v777 Tau 4.48           | 1394 | 4               | 27 | 44.5 | 15          | 40 | 19 |
| 69 upsilon Tauri 4.28     | 1392 | 4               | 27 | 46.6 | 22          | 52 | 02 |
| 77 theta^1 Tauri 3.84     | 1411 | 4               | 29 | 58.5 | 16          | 00 | 53 |
| Ain 3.53                  | 1409 | 4               | 30 | 03.0 | 19          | 13 | 58 |
| 78 theta^2 Tauri 3.4      | 1412 | 4               | 30 | 03.8 | 15          | 55 | 24 |
| delta Caeli 5.07          | 1443 | 4               | 31 | 35.1 | -44         | 54 | 07 |
| 50 upsilon^1 Eri 4.49     | 1453 | 4               | 34 | 28.1 | -29         | 43 | 05 |

|                                  |      |   |    |      |     |    |    |
|----------------------------------|------|---|----|------|-----|----|----|
| alpha Doradus 3.3                | 1465 | 4 | 34 | 31.6 | -54 | 59 | 42 |
| 86 rho Tauri 4.65                | 1444 | 4 | 35 | 14.4 | 14  | 53 | 38 |
| 52 upsilon <sup>2</sup> Eri 3.81 | 1464 | 4 | 36 | 30.1 | -30 | 30 | 49 |
| 88 Tauri 4.25                    | 1458 | 4 | 37 | 00.0 | 10  | 12 | 32 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 7

| Designation and Magnitude       | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------------|------|-----------------|----|------|-------------|----|----|
|                                 |      | h               | m  | s    | deg         | m  | s  |
| R Doradus 5.59                  | 1492 | 4               | 37 | 02.8 | -62         | 01 | 46 |
| Aldebaran 0.87                  | 1457 | 4               | 37 | 19.7 | 16          | 33 | 23 |
| 48 nu Eridani 3.93              | 1463 | 4               | 37 | 32.6 | -3          | 18 | 14 |
| 58 Persei 4.25                  | 1454 | 4               | 38 | 23.5 | 41          | 18 | 46 |
| 53 Eridani 3.86                 | 1481 | 4               | 39 | 18.1 | -14         | 15 | 29 |
| 90 Tauri 4.27                   | 1473 | 4               | 39 | 31.6 | 12          | 33 | 30 |
| alpha Caeli 4.44                | 1502 | 4               | 41 | 21.0 | -41         | 49 | 05 |
| 54 DM Eridani 4.32              | 1496 | 4               | 41 | 30.7 | -19         | 37 | 34 |
| beta Caeli 5.04                 | 1503 | 4               | 42 | 55.4 | -37         | 05 | 52 |
| 94 tau Tauri 4.27               | 1497 | 4               | 43 | 43.1 | 23          | 00 | 06 |
| 57 mu Eridani 4.01              | 1520 | 4               | 46 | 43.6 | -3          | 12 | 41 |
| 4 Camelopardalis 5.29           | 1511 | 4               | 50 | 03.2 | 56          | 47 | 52 |
| 1 pi <sup>3</sup> Orionis 3.19  | 1543 | 4               | 51 | 10.3 | 7           | 00 | 08 |
| BSC1533 4.89                    | 1533 | 4               | 51 | 33.8 | 37          | 31 | 45 |
| 2 pi <sup>2</sup> Orionis 4.35  | 1544 | 4               | 51 | 56.8 | 8           | 56 | 25 |
| 3 pi <sup>4</sup> Orionis 3.68  | 1552 | 4               | 52 | 30.7 | 5           | 38 | 42 |
| 97v480 Tau 5.08                 | 1547 | 4               | 52 | 48.5 | 18          | 52 | 46 |
| 4 o <sup>1</sup> Orionis 4.71   | 1556 | 4               | 53 | 55.2 | 14          | 17 | 22 |
| 61 omega Eridani 4.36           | 1560 | 4               | 54 | 05.9 | -5          | 24 | 49 |
| eta Mensae 5.47                 | 1629 | 4               | 54 | 30.0 | -74         | 53 | 54 |
| 8 pi <sup>5</sup> Orionis 3.71  | 1567 | 4               | 55 | 31.7 | 2           | 28 | 45 |
| 9 alpha Camelopardalis 4.26     | 1542 | 4               | 56 | 30.1 | 66          | 22 | 51 |
| 9 o <sup>2</sup> Orionis 4.06   | 1580 | 4               | 57 | 45.0 | 13          | 33 | 04 |
| 3 iota Aurigae 2.69             | 1577 | 4               | 58 | 35.5 | 33          | 12 | 09 |
| 7 Camelopardalis 4.43           | 1568 | 4               | 59 | 15.4 | 53          | 47 | 19 |
| 10 pi <sup>6</sup> Orionis 4.47 | 1601 | 4               | 59 | 49.1 | 1           | 44 | 59 |
| 7 epsilon Aurigae 3.03          | 1605 | 5               | 03 | 43.8 | 43          | 51 | 25 |
| 8 zeta Aurigae 3.69             | 1612 | 5               | 04 | 11.6 | 41          | 06 | 33 |
| 102 iota Tauri 4.62             | 1620 | 5               | 04 | 33.7 | 21          | 37 | 21 |
| eta <sup>2</sup> Pictoris 5.05  | 1663 | 5               | 05 | 36.2 | -49         | 32 | 44 |
| 10 beta Camelopardalis 4.03     | 1603 | 5               | 05 | 36.4 | 60          | 28 | 29 |
| zeta Doradus 4.71               | 1674 | 5               | 05 | 55.9 | -57         | 26 | 24 |
| 11vl032 Ori 4.65                | 1638 | 5               | 05 | 58.2 | 15          | 26 | 10 |
| 2 epsilon Leporis 3.19          | 1654 | 5               | 06 | 29.8 | -22         | 20 | 22 |
| 10 eta Aurigae 3.18             | 1641 | 5               | 08 | 14.1 | 41          | 15 | 55 |
| Cursa 2.78                      | 1666 | 5               | 09 | 03.2 | -5          | 03 | 24 |
| 69 lambda Eridani 4.25          | 1679 | 5               | 10 | 19.1 | -8          | 43 | 28 |
| 16 Orionis 5.43                 | 1672 | 5               | 10 | 40.5 | 9           | 51 | 33 |
| 3 iota Leporis 4.45             | 1696 | 5               | 13 | 26.4 | -11         | 50 | 30 |
| theta Doradus 4.81              | 1744 | 5               | 13 | 44.6 | -67         | 09 | 28 |

|                      |      |   |    |      |     |    |    |
|----------------------|------|---|----|------|-----|----|----|
| 5 mu Leporis 3.29    | 1702 | 5 | 14 | 01.9 | -16 | 10 | 41 |
| 4 kappa Leporis 4.36 | 1705 | 5 | 14 | 21.7 | -12 | 54 | 50 |
| 17 rho Orionis 4.46  | 1698 | 5 | 14 | 34.3 | 2   | 53 | 19 |
| 11 mu Aurigae 4.82   | 1689 | 5 | 15 | 06.4 | 38  | 30 | 40 |
| Rigel 0.18           | 1713 | 5 | 15 | 42.9 | -8  | 10 | 31 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 8

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| o Columbae 4.81           | 1743 | 5               | 18 | 22.1 | -34         | 52 | 21 |
| Capella 0.08              | 1708 | 5               | 18 | 30.0 | 46          | 01 | 12 |
| 20 tau Orionis 3.59       | 1735 | 5               | 18 | 47.7 | -6          | 49 | 12 |
| zeta Pictoris 5.44        | 1767 | 5               | 19 | 58.1 | -50         | 34 | 49 |
| 6 lambda Leporis 4.29     | 1756 | 5               | 20 | 42.2 | -13         | 09 | 12 |
| 15 lambda Aurigae 4.69    | 1729 | 5               | 20 | 52.0 | 40          | 07 | 05 |
| 22 Orionis 4.72           | 1765 | 5               | 23 | 00.8 | -0          | 21 | 37 |
| 29 Orionis 4.13           | 1784 | 5               | 25 | 07.7 | -7          | 47 | 15 |
| 28 eta Orionis 3.35       | 1788 | 5               | 25 | 42.5 | -2          | 22 | 35 |
| Bellatrix 1.64            | 1790 | 5               | 26 | 26.7 | 6           | 22 | 11 |
| BSC1686 5.08              | 1686 | 5               | 26 | 38.4 | 79          | 15 | 12 |
| Elnath 1.65               | 1791 | 5               | 27 | 50.5 | 28          | 37 | 33 |
| 115 Tauri 5.4             | 1808 | 5               | 28 | 35.8 | 17          | 58 | 52 |
| Nihal 2.81                | 1829 | 5               | 29 | 17.6 | -20         | 44 | 29 |
| BSC1856 5.46              | 1856 | 5               | 30 | 49.9 | -47         | 03 | 39 |
| gamma Mensae 5.18         | 1953 | 5               | 30 | 55.7 | -76         | 19 | 19 |
| epsilon Columbae 3.86     | 1862 | 5               | 32 | 04.9 | -35         | 27 | 15 |
| 32 Orionis 4.2            | 1839 | 5               | 32 | 05.7 | 5           | 57 | 54 |
| 17 Camelopardalis 5.43    | 1802 | 5               | 32 | 29.3 | 63          | 05 | 04 |
| Mintaka 2.25              | 1852 | 5               | 33 | 15.5 | -0          | 16 | 58 |
| 119 CE Tauri 4.32         | 1845 | 5               | 33 | 38.9 | 18          | 36 | 37 |
| Arneb 2.58                | 1865 | 5               | 33 | 48.6 | -17         | 48 | 23 |
| beta Doradus 3.76         | 1922 | 5               | 33 | 50.4 | -62         | 28 | 27 |
| 25 chi Aurigae 4.71       | 1843 | 5               | 34 | 19.3 | 32          | 12 | 28 |
| 37 phi^1 Orionis 4.39     | 1876 | 5               | 36 | 09.9 | 9           | 30 | 15 |
| Meissa 3.39               | 1879 | 5               | 36 | 29.2 | 9           | 56 | 54 |
| v1046 Orionis 6.57        | 1890 | 5               | 36 | 34.5 | -4          | 28 | 49 |
| BSC1891 6.24              | 1891 | 5               | 36 | 35.0 | -4          | 24 | 36 |
| 44 iota Orionis 2.75      | 1899 | 5               | 36 | 37.8 | -5          | 53 | 45 |
| Alnilam 1.69              | 1903 | 5               | 37 | 27.4 | -1          | 11 | 17 |
| 40 phi^2 Orionis 4.09     | 1907 | 5               | 38 | 15.1 | 9           | 18 | 07 |
| 123 zeta Tauri 2.97       | 1910 | 5               | 39 | 06.5 | 21          | 09 | 19 |
| 48 sigma Orionis 3.77     | 1931 | 5               | 39 | 58.5 | -2          | 35 | 17 |
| Phact 2.65                | 1956 | 5               | 40 | 32.2 | -34         | 03 | 45 |
| Alnitak 1.74              | 1948 | 5               | 41 | 59.7 | -1          | 55 | 53 |
| delta Doradus 4.34        | 2015 | 5               | 44 | 49.1 | -65         | 43 | 35 |
| 13 gamma Leporis 3.59     | 1983 | 5               | 45 | 29.0 | -22         | 26 | 32 |
| 27 o Aurigae 5.46         | 1971 | 5               | 47 | 47.9 | 49          | 50 | 02 |
| beta Pictoris 3.85        | 2020 | 5               | 47 | 51.8 | -51         | 03 | 31 |
| 14 zeta Leporis 3.55      | 1998 | 5               | 48 | 03.9 | -14         | 48 | 53 |

|                    |      |   |    |      |     |    |    |
|--------------------|------|---|----|------|-----|----|----|
| 130 Tauri 5.47     | 1990 | 5 | 48 | 51.9 | 17  | 44 | 10 |
| Saiph 2.07         | 2004 | 5 | 48 | 55.1 | -9  | 39 | 46 |
| gamma Pictoris 4.5 | 2042 | 5 | 50 | 16.3 | -56 | 09 | 40 |
| BSC2049 5.16       | 2049 | 5 | 51 | 26.5 | -52 | 06 | 15 |
| Wazn 3.12          | 2040 | 5 | 51 | 49.4 | -35 | 45 | 37 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 9

| Designation and Magnitude        | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------------|------|-----------------|----|------|-------------|----|----|
|                                  |      | h               | m  | s    | deg         | m  | s  |
| 15 delta Leporis 3.76            | 2035 | 5               | 52 | 22.5 | -20         | 52 | 43 |
| 32 nu Aurigae 3.97               | 2012 | 5               | 53 | 11.3 | 39          | 09 | 10 |
| 136 Tauri 4.56                   | 2034 | 5               | 54 | 52.1 | 27          | 36 | 57 |
| 54 chi <sup>1</sup> Orionis 4.39 | 2047 | 5               | 55 | 50.1 | 20          | 16 | 43 |
| Betelgeuse 0.45                  | 2061 | 5               | 56 | 29.8 | 7           | 24 | 35 |
| 30 xi Aurigae 4.96               | 2029 | 5               | 56 | 54.0 | 55          | 42 | 34 |
| 16 eta Leporis 3.71              | 2085 | 5               | 57 | 31.2 | -14         | 09 | 54 |
| gamma Columbae 4.36              | 2106 | 5               | 58 | 24.3 | -35         | 16 | 55 |
| eta Columbae 3.96                | 2120 | 5               | 59 | 53.7 | -42         | 48 | 54 |
| 60 Orionis 5.21                  | 2103 | 6               | 00 | 05.1 | 0           | 33 | 12 |
| Menkalinan 1.9                   | 2088 | 6               | 01 | 19.5 | 44          | 56 | 49 |
| 37 theta Aurigae 2.65            | 2095 | 6               | 01 | 23.4 | 37          | 12 | 42 |
| 33 delta Aurigae 3.72            | 2077 | 6               | 01 | 32.7 | 54          | 17 | 00 |
| 35 pi Aurigae 4.3                | 2091 | 6               | 01 | 45.1 | 45          | 56 | 10 |
| 61 mu Orionis 4.12               | 2124 | 6               | 03 | 43.8 | 9           | 38 | 43 |
| 62 chi <sup>2</sup> Orionis 4.64 | 2135 | 6               | 05 | 22.4 | 20          | 08 | 08 |
| 1 Geminorum 4.16                 | 2134 | 6               | 05 | 36.5 | 23          | 15 | 34 |
| 17 SS Leporis 4.92               | 2148 | 6               | 06 | 04.7 | -16         | 29 | 16 |
| nu Doradus 5.06                  | 2221 | 6               | 08 | 34.7 | -68         | 50 | 54 |
| 67 nu Orionis 4.42               | 2159 | 6               | 08 | 58.1 | 14          | 45 | 48 |
| alpha Mensae 5.08                | 2261 | 6               | 09 | 30.4 | -74         | 45 | 37 |
| BSC2180 5.49                     | 2180 | 6               | 09 | 59.6 | -22         | 26 | 00 |
| delta Pictoris 4.72              | 2212 | 6               | 10 | 46.5 | -54         | 58 | 30 |
| 70 xi Orionis 4.45               | 2199 | 6               | 13 | 19.9 | 14          | 12 | 04 |
| 36 Camelopardalis 5.36           | 2165 | 6               | 15 | 18.8 | 65          | 42 | 35 |
| 5 gamma Monocerotis 3.99         | 2227 | 6               | 16 | 03.0 | -6          | 17 | 02 |
| Propus 3.31                      | 2216 | 6               | 16 | 21.3 | 22          | 29 | 51 |
| 44 kappa Aurigae 4.32            | 2219 | 6               | 16 | 56.2 | 29          | 29 | 12 |
| kappa Columbae 4.37              | 2256 | 6               | 17 | 25.4 | -35         | 09 | 01 |
| 74 Orionis 5.04                  | 2241 | 6               | 17 | 49.1 | 12          | 15 | 48 |
| 7 Monocerotis 5.27               | 2273 | 6               | 20 | 53.5 | -7          | 50 | 06 |
| Furud 3.02                       | 2282 | 6               | 21 | 15.1 | -30         | 04 | 32 |
| BSC2209 4.76                     | 2209 | 6               | 21 | 32.4 | 69          | 18 | 25 |
| 2 UZ Lyncis 4.44                 | 2238 | 6               | 21 | 46.8 | 58          | 59 | 56 |
| delta Columbae 3.85              | 2296 | 6               | 23 | 00.5 | -33         | 27 | 00 |
| Mirzam 1.98                      | 2294 | 6               | 23 | 46.6 | -17         | 58 | 12 |
| 13 mu Geminorum 2.87             | 2286 | 6               | 24 | 26.5 | 22          | 29 | 56 |
| Canopus -0.62                    | 2326 | 6               | 24 | 29.7 | -52         | 42 | 35 |
| 8 Monocerotis 4.39               | 2298 | 6               | 25 | 03.9 | 4           | 34 | 42 |

|                                      |      |   |    |      |     |    |    |
|--------------------------------------|------|---|----|------|-----|----|----|
| BSC2305 5.21                         | 2305 | 6 | 25 | 18.8 | -11 | 32 | 42 |
| 46 psi <sup>1</sup> Aurigae 4.92     | 2289 | 6 | 26 | 46.9 | 49  | 16 | 21 |
| lambda Canis Majoris 4.47            | 2361 | 6 | 29 | 04.7 | -32 | 35 | 49 |
| 10 Monocerotis 5.06                  | 2344 | 6 | 29 | 10.1 | -4  | 46 | 45 |
| 18 nu Geminorum 4.13                 | 2343 | 6 | 30 | 25.0 | 20  | 11 | 40 |
| 4 xi <sup>1</sup> Canis Majoris 4.34 | 2387 | 6 | 32 | 52.5 | -23 | 26 | 15 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 10

| Designation and Magnitude            | BSC# | Right Ascension |    |      | Declination |    |    |
|--------------------------------------|------|-----------------|----|------|-------------|----|----|
|                                      |      | h               | m  | s    | deg         | m  | s  |
| BSC2392 6.3                          | 2392 | 6               | 33 | 55.7 | -11         | 11 | 09 |
| 13 Monocerotis 4.47                  | 2385 | 6               | 34 | 13.7 | 7           | 18 | 47 |
| BSC2395 5.09                         | 2395 | 6               | 34 | 52.5 | -1          | 14 | 26 |
| BSC2435 4.35                         | 2435 | 6               | 35 | 30.9 | -52         | 59 | 48 |
| 5 xi <sup>2</sup> Canis Majoris 4.54 | 2414 | 6               | 36 | 04.9 | -22         | 59 | 09 |
| 7 nu <sup>2</sup> Canis Majoris 3.95 | 2429 | 6               | 37 | 45.1 | -19         | 16 | 42 |
| nu Puppis 3.17                       | 2451 | 6               | 38 | 30.6 | -43         | 13 | 07 |
| 8 nu <sup>3</sup> Canis Majoris 4.42 | 2443 | 6               | 38 | 58.0 | -18         | 15 | 37 |
| Alhena 1.93                          | 2421 | 6               | 39 | 07.5 | 16          | 22 | 33 |
| 15 S Monocerotis 4.66                | 2456 | 6               | 42 | 19.5 | 9           | 52 | 16 |
| 30 Geminorum 4.49                    | 2478 | 6               | 45 | 22.1 | 13          | 12 | 04 |
| Mebstata 3.06                        | 2473 | 6               | 45 | 26.2 | 25          | 06 | 16 |
| BSC2513 6.56                         | 2513 | 6               | 45 | 59.9 | -52         | 13 | 41 |
| Sirius -1.44                         | 2491 | 6               | 46 | 13.0 | -16         | 45 | 07 |
| 31 xi Geminorum 3.35                 | 2484 | 6               | 46 | 39.7 | 12          | 52 | 02 |
| BSC2518 5.27                         | 2518 | 6               | 48 | 11.6 | -37         | 57 | 29 |
| alpha Pictoris 3.24                  | 2550 | 6               | 48 | 26.4 | -61         | 58 | 06 |
| 56 psi <sup>5</sup> Aurigae 5.24     | 2483 | 6               | 48 | 30.0 | 43          | 33 | 02 |
| 18 Monocerotis 4.48                  | 2506 | 6               | 49 | 08.2 | 2           | 23 | 00 |
| 57 psi <sup>6</sup> Aurigae 5.22     | 2487 | 6               | 49 | 31.2 | 48          | 45 | 40 |
| BSC2401 5.44                         | 2401 | 6               | 50 | 22.0 | 79          | 31 | 55 |
| v415 Carinae 4.41                    | 2554 | 6               | 50 | 23.1 | -53         | 39 | 07 |
| tau Puppis 2.94                      | 2553 | 6               | 50 | 32.5 | -50         | 38 | 40 |
| 13 kappa Canis Majoris 3.5           | 2538 | 6               | 50 | 45.3 | -32         | 32 | 17 |
| iota Volantis 5.41                   | 2602 | 6               | 51 | 09.6 | -70         | 59 | 37 |
| v592 Monocerotis 6.31                | 2534 | 6               | 51 | 53.0 | -8          | 04 | 17 |
| 34 theta Geminorum 3.6               | 2540 | 6               | 54 | 24.0 | 33          | 55 | 46 |
| 16 o <sup>1</sup> Canis Majoris 3.89 | 2580 | 6               | 55 | 08.8 | -24         | 12 | 59 |
| NP Puppis 6.32                       | 2591 | 6               | 55 | 12.9 | -42         | 23 | 51 |
| 14 theta Canis Majoris 4.08          | 2574 | 6               | 55 | 19.6 | -12         | 04 | 16 |
| 43 Camelopardalis 5.11               | 2511 | 6               | 56 | 19.8 | 68          | 51 | 21 |
| 20 iota Canis Majoris 4.36           | 2596 | 6               | 57 | 13.8 | -17         | 05 | 16 |
| 15 Lyncis 4.35                       | 2560 | 6               | 59 | 23.4 | 58          | 23 | 16 |
| Adhara 1.5                           | 2618 | 6               | 59 | 35.3 | -29         | 00 | 25 |
| 22 sigma Canis Majoris 3.49          | 2646 | 7               | 02 | 41.7 | -27         | 58 | 18 |
| BSC2527 4.55                         | 2527 | 7               | 03 | 36.1 | 76          | 56 | 27 |
| 42 omega Geminorum 5.2               | 2630 | 7               | 03 | 54.2 | 24          | 10 | 42 |
| 24 o <sup>2</sup> Canis Majoris 3.02 | 2653 | 7               | 04 | 02.7 | -23         | 52 | 14 |

|                       |      |   |    |      |     |    |    |
|-----------------------|------|---|----|------|-----|----|----|
| v386 Carinae 5.14     | 2683 | 7 | 04 | 45.6 | -56 | 47 | 16 |
| BSC2666 5.2           | 2666 | 7 | 04 | 49.3 | -42 | 22 | 29 |
| Muliphein 4.11        | 2657 | 7 | 04 | 51.9 | -15 | 40 | 17 |
| Mekbuda 4.01          | 2650 | 7 | 05 | 33.5 | 20  | 31 | 56 |
| gamma^2 Volantis 3.78 | 2736 | 7 | 08 | 31.8 | -70 | 32 | 19 |
| Wezen 1.83            | 2693 | 7 | 09 | 23.1 | -26 | 26 | 01 |
| 20 Monocerotis 4.91   | 2701 | 7 | 11 | 26.6 | -4  | 16 | 37 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 11

| Designation and Magnitude   | BSC# | Right Ascension |    |      | Declination |    |    |
|-----------------------------|------|-----------------|----|------|-------------|----|----|
|                             |      | h               | m  | s    | deg         | m  | s  |
| 46 tau Geminorum 4.41       | 2697 | 7               | 12 | 41.6 | 30          | 12 | 10 |
| 22 delta Monocerotis 4.15   | 2714 | 7               | 13 | 06.7 | -0          | 32 | 07 |
| QW Puppis 4.49              | 2740 | 7               | 13 | 15.5 | -46         | 48 | 04 |
| 63 Aurigae 4.91             | 2696 | 7               | 13 | 20.1 | 39          | 16 | 41 |
| 48 Geminorum 5.85           | 2706 | 7               | 13 | 55.5 | 24          | 05 | 08 |
| L_2 Pup 4.42                | 2748 | 7               | 14 | 17.0 | -44         | 40 | 50 |
| 51 BQ Geminorum 5.07        | 2717 | 7               | 14 | 46.5 | 16          | 06 | 55 |
| 27 EW Canis Majoris 4.42    | 2745 | 7               | 15 | 15.1 | -26         | 23 | 47 |
| 28 omega Canis Majoris 4.01 | 2749 | 7               | 15 | 48.2 | -26         | 49 | 00 |
| delta Volantis 3.97         | 2803 | 7               | 16 | 48.6 | -68         | 00 | 08 |
| pi Puppis 2.71              | 2773 | 7               | 18 | 00.4 | -37         | 08 | 34 |
| 54 lambda Geminorum 3.58    | 2763 | 7               | 19 | 29.8 | 16          | 29 | 39 |
| 30 tau Canis Majoris 4.37   | 2782 | 7               | 19 | 43.3 | -25         | 00 | 02 |
| Wasat 3.5                   | 2777 | 7               | 21 | 34.9 | 21          | 56 | 06 |
| Aludra 2.45                 | 2827 | 7               | 25 | 03.7 | -29         | 21 | 09 |
| 66 Aurigae 5.23             | 2805 | 7               | 25 | 49.8 | 40          | 37 | 22 |
| 60 iota Geminorum 3.78      | 2821 | 7               | 27 | 14.6 | 27          | 44 | 50 |
| Gomeisa 2.89                | 2845 | 7               | 28 | 28.6 | 8           | 14 | 16 |
| 4 gamma Canis Minoris 4.33  | 2854 | 7               | 29 | 29.7 | 8           | 52 | 26 |
| sigma Puppis 3.25           | 2878 | 7               | 30 | 00.4 | -43         | 21 | 08 |
| 62 rho Geminorum 4.16       | 2852 | 7               | 30 | 41.0 | 31          | 44 | 02 |
| 6 Canis Minoris 4.55        | 2864 | 7               | 31 | 09.4 | 11          | 57 | 14 |
| BSC2906 4.44                | 2906 | 7               | 35 | 06.0 | -22         | 21 | 01 |
| Castor 1.58                 | 2891 | 7               | 36 | 09.1 | 31          | 49 | 54 |
| 66 alpha^2 Geminorum 2.97   | 2890 | 7               | 36 | 09.5 | 31          | 49 | 57 |
| BSC2934 4.93                | 2934 | 7               | 36 | 16.0 | -52         | 35 | 22 |
| 69 epsilon Geminorum 4.06   | 2905 | 7               | 37 | 25.6 | 26          | 50 | 21 |
| BSC2937 4.53                | 2937 | 7               | 38 | 16.4 | -35         | 01 | 30 |
| 25 Monocerotis 5.14         | 2927 | 7               | 38 | 29.7 | -4          | 10 | 03 |
| Procyon 0.4                 | 2943 | 7               | 40 | 35.1 | 5           | 09 | 35 |
| zeta Volantis 3.93          | 3024 | 7               | 41 | 30.1 | -72         | 39 | 52 |
| R Puppis 6.6                | 2974 | 7               | 41 | 49.5 | -31         | 43 | 11 |
| 26 alpha Monocerotis 3.94   | 2970 | 7               | 42 | 25.0 | -9          | 36 | 36 |
| 3 Puppis 3.94               | 2996 | 7               | 44 | 47.5 | -29         | 00 | 53 |
| 75 sigma Geminorum 4.23     | 2973 | 7               | 44 | 50.2 | 28          | 49 | 19 |
| 24 Lyncis 4.93              | 2946 | 7               | 45 | 03.9 | 58          | 39 | 01 |
| 77 kappa Geminorum 3.57     | 2985 | 7               | 45 | 55.4 | 24          | 20 | 14 |

|                       |      |           |           |
|-----------------------|------|-----------|-----------|
| BSC3017 3.62          | 3017 | 7 46 07.6 | -38 01 46 |
| Pollux 1.16           | 2990 | 7 46 48.6 | 27 57 54  |
| 4 Puppis 5.03         | 3015 | 7 47 04.5 | -14 37 30 |
| 81 Geminorum 4.89     | 3003 | 7 47 32.3 | 18 26 55  |
| 11 Canis Minoris 5.25 | 3008 | 7 47 36.9 | 10 42 25  |
| BSC3037 5.22          | 3037 | 7 48 15.9 | -46 40 12 |
| BSC2999 5.15          | 2999 | 7 48 16.9 | 37 27 21  |
| 80 pi Geminorum 5.14  | 3013 | 7 49 04.7 | 33 21 13  |

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| Designation and Magnitude  | BSC# | Right Ascension |           |   | Declination |   |   |
|----------------------------|------|-----------------|-----------|---|-------------|---|---|
|                            |      | h               | m         | s | deg         | m | s |
| o Puppis 4.4               | 3034 | 7 49 06.1       | -25 59 58 |   |             |   |   |
| BSC3055 4.1                | 3055 | 7 49 58.9       | -46 26 09 |   |             |   |   |
| 7 xi Puppis 3.34           | 3045 | 7 50 19.4       | -24 55 22 |   |             |   |   |
| OV Cephei 5.05             | 2609 | 7 51 01.4       | 86 57 34  |   |             |   |   |
| 13 zeta Canis Minoris 5.12 | 3059 | 7 52 58.0       | 1 42 09   |   |             |   |   |
| BSC3080 3.71               | 3080 | 7 53 03.5       | -40 38 25 |   |             |   |   |
| QZ Puppis 4.49             | 3084 | 7 53 30.6       | -38 55 39 |   |             |   |   |
| BSC3090 4.22               | 3090 | 7 54 01.3       | -48 10 04 |   |             |   |   |
| 83 phi Geminorum 4.97      | 3067 | 7 54 59.5       | 26 42 01  |   |             |   |   |
| 26 Lyncis 5.47             | 3066 | 7 56 29.2       | 47 29 56  |   |             |   |   |
| chi Carinae 3.46           | 3117 | 7 57 23.9       | -53 02 56 |   |             |   |   |
| 11 Puppis 4.2              | 3102 | 7 57 54.7       | -22 56 49 |   |             |   |   |
| BSC3113 4.76               | 3113 | 7 58 38.7       | -30 24 06 |   |             |   |   |
| V Puppis 4.47              | 3129 | 7 58 56.7       | -49 18 45 |   |             |   |   |
| BSC3153 5.19               | 3153 | 8 00 02.4       | -60 39 18 |   |             |   |   |
| 27 Monocerotis 4.93        | 3122 | 8 00 57.5       | -3 44 52  |   |             |   |   |
| BSC3131 4.61               | 3131 | 8 00 57.8       | -18 28 05 |   |             |   |   |
| BSC3075 5.37               | 3075 | 8 03 04.7       | 73 50 55  |   |             |   |   |
| BSC3145 4.39               | 3145 | 8 03 32.2       | 2 15 56   |   |             |   |   |
| Naos 2.21                  | 3165 | 8 04 26.6       | -40 04 24 |   |             |   |   |
| chi Geminorum 4.94         | 3149 | 8 05 01.0       | 27 43 26  |   |             |   |   |
| epsilon Volantis 4.35      | 3223 | 8 07 59.9       | -68 41 20 |   |             |   |   |
| Tureis 2.83                | 3185 | 8 08 35.1       | -24 22 35 |   |             |   |   |
| 29 zeta Monocerotis 4.36   | 3188 | 8 09 49.4       | -3 03 24  |   |             |   |   |
| 16 Puppis 4.4              | 3192 | 8 10 07.2       | -19 19 06 |   |             |   |   |
| Regor 1.75                 | 3207 | 8 10 17.2       | -47 24 34 |   |             |   |   |
| 27 Lyncis 4.78             | 3173 | 8 10 17.3       | 51 26 01  |   |             |   |   |
| NS Puppis 4.44             | 3225 | 8 12 14.0       | -39 41 33 |   |             |   |   |
| 20 Puppis 4.99             | 3229 | 8 14 27.4       | -15 51 48 |   |             |   |   |
| BSC3243 4.42               | 3243 | 8 14 55.1       | -40 25 26 |   |             |   |   |
| BSC3182 5.34               | 3182 | 8 15 13.1       | 68 23 56  |   |             |   |   |
| 17 beta Cancri 3.53        | 3249 | 8 17 50.4       | 9 06 30   |   |             |   |   |
| alpha Chamaeleontis 4.05   | 3318 | 8 17 51.1       | -76 59 46 |   |             |   |   |
| BSC3270 4.44               | 3270 | 8 19 28.3       | -36 44 11 |   |             |   |   |
| theta Chamaeleontis 4.34   | 3340 | 8 19 51.8       | -77 33 45 |   |             |   |   |
| 18 chi Cancri 5.13         | 3262 | 8 21 32.8       | 27 08 11  |   |             |   |   |

|                    |      |           |           |
|--------------------|------|-----------|-----------|
| BSC3282 4.83       | 3282 | 8 22 20.9 | -33 08 01 |
| Avior 1.86         | 3307 | 8 23 00.7 | -59 35 20 |
| 31 Lyncis 4.25     | 3275 | 8 24 30.1 | 43 06 27  |
| beta Volantis 3.77 | 3347 | 8 25 59.7 | -66 13 08 |
| BSC3315 5.32       | 3315 | 8 26 07.2 | -24 07 38 |
| BSC3314 3.91       | 3314 | 8 26 53.0 | -3 59 16  |
| Muscida 3.35       | 3323 | 8 32 16.6 | 60 38 01  |
| 33 eta Cancri 5.33 | 3366 | 8 34 07.1 | 20 21 23  |
| BSC3426 4.11       | 3426 | 8 38 30.2 | -43 04 32 |

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| Designation and Magnitude | BSC# | Right Ascension |           |   | Declination |   |   |
|---------------------------|------|-----------------|-----------|---|-------------|---|---|
|                           |      | h               | m         | s | deg         | m | s |
| 4 delta Hydrae 4.14       | 3410 | 8 38 57.0       | 5 37 00   |   |             |   |   |
| 5 sigma Hydrae 4.45       | 3418 | 8 40 02.1       | 3 15 14   |   |             |   |   |
| eta Chamaeleontis 5.46    | 3502 | 8 40 25.8       | -79 03 04 |   |             |   |   |
| o Velorum 3.6             | 3447 | 8 40 59.6       | -53 00 34 |   |             |   |   |
| beta Pyxidis 3.97         | 3438 | 8 41 03.6       | -35 23 47 |   |             |   |   |
| v343 Carinae 4.31         | 3457 | 8 41 09.3       | -59 50 57 |   |             |   |   |
| 6 Hydrae 4.98             | 3431 | 8 41 11.0       | -12 33 48 |   |             |   |   |
| BSC3445 3.77              | 3445 | 8 41 26.2       | -46 44 13 |   |             |   |   |
| 34 Lyncis 5.35            | 3422 | 8 42 42.0       | 45 44 46  |   |             |   |   |
| 7 eta Hydrae 4.3          | 3454 | 8 44 30.1       | 3 18 33   |   |             |   |   |
| alpha Pyxidis 3.68        | 3468 | 8 44 34.6       | -33 16 33 |   |             |   |   |
| Asellus Borealis 4.66     | 3449 | 8 44 41.9       | 21 22 44  |   |             |   |   |
| BSC3477 4.05              | 3477 | 8 45 16.3       | -42 44 20 |   |             |   |   |
| delta Velorum 1.93        | 3485 | 8 45 22.7       | -54 47 59 |   |             |   |   |
| Asellus Australis 3.94    | 3461 | 8 46 04.3       | 18 03 46  |   |             |   |   |
| BSC3487 3.87              | 3487 | 8 46 51.4       | -46 07 55 |   |             |   |   |
| v344 Carinae 4.5          | 3498 | 8 47 20.4       | -56 51 38 |   |             |   |   |
| 12 Hydrae 4.32            | 3484 | 8 47 31.9       | -13 38 19 |   |             |   |   |
| 11 epsilon Hydrae 3.38    | 3482 | 8 48 04.1       | 6 19 39   |   |             |   |   |
| 48 iota Cancri 4.03       | 3475 | 8 48 10.4       | 28 40 07  |   |             |   |   |
| 13 rho Hydrae 4.35        | 3492 | 8 49 43.6       | 5 44 45   |   |             |   |   |
| 14 KX Hydrae 5.3          | 3500 | 8 50 35.5       | -3 32 08  |   |             |   |   |
| gamma Pyxidis 4.02        | 3518 | 8 51 34.3       | -27 48 06 |   |             |   |   |
| zeta Octantis 5.43        | 3678 | 8 52 38.0       | -85 45 25 |   |             |   |   |
| BSC3571 3.84              | 3571 | 8 55 35.9       | -60 44 19 |   |             |   |   |
| 16 zeta Hydrae 3.11       | 3547 | 8 56 41.1       | 5 51 03   |   |             |   |   |
| v376 Carinae 4.93         | 3582 | 8 57 34.2       | -59 19 28 |   |             |   |   |
| Acubens 4.26              | 3572 | 8 59 49.3       | 11 45 41  |   |             |   |   |
| Talitha 3.12              | 3569 | 9 00 52.4       | 47 56 39  |   |             |   |   |
| BSC3591 4.45              | 3591 | 9 01 00.2       | -41 21 00 |   |             |   |   |
| 64 sigma^3 Cancri 5.23    | 3575 | 9 01 02.5       | 32 19 18  |   |             |   |   |
| BSC3579 3.96              | 3579 | 9 02 13.1       | 41 41 03  |   |             |   |   |
| alpha Volantis 4          | 3615 | 9 02 49.6       | -66 29 40 |   |             |   |   |
| 8 rho Ursae Majoris 4.74  | 3576 | 9 04 43.1       | 67 31 54  |   |             |   |   |
| BSC3614 3.75              | 3614 | 9 04 59.9       | -47 11 46 |   |             |   |   |

|                             |      |   |    |      |     |    |    |
|-----------------------------|------|---|----|------|-----|----|----|
| BSC3643 4.47                | 3643 | 9 | 05 | 11.5 | -72 | 42 | 05 |
| 12 kappa Ursae Majoris 3.57 | 3594 | 9 | 05 | 17.1 | 47  | 03 | 27 |
| BSC3612 4.56                | 3612 | 9 | 08 | 04.6 | 38  | 21 | 10 |
| Suhail 2.23                 | 3634 | 9 | 08 | 53.9 | -43 | 31 | 57 |
| 76 kappa Cancri 5.23        | 3623 | 9 | 09 | 04.1 | 10  | 34 | 06 |
| 15 Ursae Majoris 4.46       | 3619 | 9 | 10 | 35.0 | 51  | 30 | 14 |
| 77 xi Cancri 5.16           | 3627 | 9 | 10 | 45.7 | 21  | 56 | 41 |
| v357 Carinae 3.43           | 3659 | 9 | 11 | 36.7 | -59 | 04 | 04 |
| BSC3663 3.96                | 3663 | 9 | 11 | 50.0 | -62 | 25 | 05 |
| Miaplacidus 1.67            | 3685 | 9 | 13 | 27.4 | -69 | 49 | 06 |

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| Designation and Magnitude   | BSC# | Right Ascension |    |      | Declination |    |    |
|-----------------------------|------|-----------------|----|------|-------------|----|----|
|                             |      | h               | m  | s    | deg         | m  | s  |
| 36 Lyncis 5.3               | 3652 | 9               | 15 | 23.7 | 43          | 06 | 54 |
| 22 theta Hydrae 3.89        | 3665 | 9               | 15 | 38.1 | 2           | 12 | 35 |
| BSC3696 4.34                | 3696 | 9               | 16 | 53.4 | -57         | 38 | 41 |
| Aspidiske 2.21              | 3699 | 9               | 17 | 44.6 | -59         | 22 | 43 |
| 38 Lyncis 3.82              | 3690 | 9               | 20 | 21.5 | 36          | 41 | 51 |
| 40 alpha Lyncis 3.14        | 3705 | 9               | 22 | 32.3 | 34          | 17 | 15 |
| theta Pyxidis 4.71          | 3718 | 9               | 22 | 34.6 | -26         | 04 | 15 |
| kappa Velorum 2.47          | 3734 | 9               | 22 | 52.2 | -55         | 06 | 58 |
| 1 kappa Leonis 4.47         | 3731 | 9               | 26 | 04.5 | 26          | 04 | 32 |
| Alphard 1.99                | 3748 | 9               | 28 | 47.4 | -8          | 45 | 58 |
| epsilon Antliae 4.51        | 3765 | 9               | 30 | 15.4 | -36         | 03 | 33 |
| psi Velorum 3.6             | 3786 | 9               | 31 | 40.0 | -40         | 34 | 31 |
| BSC3821 5.46                | 3821 | 9               | 31 | 46.2 | -73         | 11 | 23 |
| BSC3803 3.16                | 3803 | 9               | 31 | 57.9 | -57         | 08 | 35 |
| R Carinae 7.43              | 3816 | 9               | 32 | 51.4 | -62         | 53 | 52 |
| Alterf 4.32                 | 3773 | 9               | 33 | 06.8 | 22          | 51 | 31 |
| 5 xi Leonis 4.99            | 3782 | 9               | 33 | 15.8 | 11          | 11 | 24 |
| 23 Ursae Majoris 3.65       | 3757 | 9               | 33 | 25.9 | 62          | 57 | 11 |
| BSC3808 5.02                | 3808 | 9               | 34 | 20.1 | -21         | 13 | 30 |
| 25 theta Ursae Majoris 3.17 | 3775 | 9               | 34 | 28.8 | 51          | 33 | 51 |
| BSC3825 4.08                | 3825 | 9               | 35 | 09.2 | -59         | 20 | 23 |
| 10 SU Leonis Minoris 4.54   | 3800 | 9               | 35 | 42.9 | 36          | 17 | 15 |
| 26 Ursae Majoris 4.47       | 3799 | 9               | 36 | 29.2 | 51          | 56 | 27 |
| 24 DK Ursae Majoris 4.54    | 3771 | 9               | 36 | 36.1 | 69          | 43 | 14 |
| BSC3836 4.34                | 3836 | 9               | 37 | 42.2 | -49         | 27 | 55 |
| BSC3834 4.68                | 3834 | 9               | 39 | 43.7 | 4           | 32 | 16 |
| BSC3751 4.28                | 3751 | 9               | 40 | 23.6 | 81          | 12 | 55 |
| 35 iota Hydrae 3.9          | 3845 | 9               | 41 | 06.2 | -1          | 15 | 18 |
| 38 kappa Hydrae 5.07        | 3849 | 9               | 41 | 28.7 | -14         | 26 | 40 |
| Subra 3.52                  | 3852 | 9               | 42 | 27.3 | 9           | 46 | 47 |
| 16 psi Leonis 5.36          | 3866 | 9               | 45 | 03.6 | 13          | 54 | 30 |
| theta Antliae 4.78          | 3871 | 9               | 45 | 17.5 | -27         | 52 | 57 |
| lambda Carinae 3.69         | 3884 | 9               | 45 | 55.1 | -62         | 37 | 17 |
| 17 epsilon Leonis 2.97      | 3873 | 9               | 47 | 14.1 | 23          | 39 | 38 |
| upsilon Carinae 2.92        | 3890 | 9               | 47 | 42.7 | -65         | 11 | 10 |

|                                  |      |    |    |      |     |    |    |
|----------------------------------|------|----|----|------|-----|----|----|
| R Leonis 10.35                   | 3882 | 9  | 48 | 52.3 | 11  | 18 | 51 |
| BSC3881 5.08                     | 3881 | 9  | 50 | 09.4 | 45  | 54 | 20 |
| 39 epsilon <sup>1</sup> Hya 4.11 | 3903 | 9  | 52 | 39.3 | -14 | 57 | 45 |
| 29 epsilon Ursae Majoris 3.78    | 3888 | 9  | 52 | 42.5 | 58  | 55 | 20 |
| Rasalas 3.88                     | 3905 | 9  | 54 | 09.0 | 25  | 53 | 25 |
|                                  |      |    |    |      |     |    |    |
| BSC3923 4.94                     | 3923 | 9  | 56 | 01.5 | -19 | 07 | 35 |
| phi Velorum 3.52                 | 3940 | 9  | 57 | 43.3 | -54 | 41 | 07 |
| 19 Leonis Minoris 5.11           | 3928 | 9  | 59 | 10.4 | 40  | 56 | 16 |
| eta Antliae 5.23                 | 3947 | 9  | 59 | 55.4 | -36 | 00 | 32 |
| 29 pi Leonis 4.68                | 3950 | 10 | 01 | 30.3 | 7   | 55 | 32 |

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| Designation and Magnitude       | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------------|------|-----------------|----|------|-------------|----|----|
|                                 |      | h               | m  | s    | deg         | m  | s  |
| 20 Leonis Minoris 5.37          | 3951 | 10              | 02 | 24.9 | 31          | 48 | 08 |
| 40 epsilon <sup>2</sup> Hya 4.6 | 3970 | 10              | 06 | 19.0 | -13         | 11 | 04 |
| 30 eta Leonis 3.48              | 3975 | 10              | 08 | 39.7 | 16          | 38 | 31 |
| 21 Leonis Minoris 4.49          | 3974 | 10              | 08 | 51.9 | 35          | 07 | 28 |
| 15 alpha Sextantis 4.48         | 3981 | 10              | 09 | 11.4 | -0          | 29 | 33 |
|                                 |      |                 |    |      |             |    |    |
| 31 Leonis 4.39                  | 3980 | 10              | 09 | 12.0 | 9           | 52 | 35 |
| Regulus 1.36                    | 3982 | 10              | 09 | 40.3 | 11          | 50 | 47 |
| 41 lambda Hydrae 3.61           | 3994 | 10              | 11 | 46.8 | -12         | 28 | 33 |
| omega Carinae 3.29              | 4037 | 10              | 14 | 18.9 | -70         | 09 | 35 |
| BSC4023 3.85                    | 4023 | 10              | 15 | 45.9 | -42         | 14 | 39 |
|                                 |      |                 |    |      |             |    |    |
| v337 Carinae 3.39               | 4050 | 10              | 17 | 54.2 | -61         | 27 | 18 |
| Adhafera 3.43                   | 4031 | 10              | 18 | 02.9 | 23          | 17 | 40 |
| Tania Borealis 3.45             | 4033 | 10              | 18 | 33.7 | 42          | 47 | 28 |
| 22 epsilon Sextantis 5.25       | 4042 | 10              | 18 | 50.8 | -8          | 11 | 32 |
| AG Antliae 5.52                 | 4049 | 10              | 19 | 15.0 | -29         | 06 | 55 |
|                                 |      |                 |    |      |             |    |    |
| Algieba 2.01                    | 4057 | 10              | 21 | 19.1 | 19          | 43 | 00 |
| BSC4080 4.82                    | 4080 | 10              | 23 | 22.8 | -41         | 46 | 26 |
| Tania Australis 3.06            | 4069 | 10              | 23 | 46.7 | 41          | 22 | 32 |
| BSC4086 5.34                    | 4086 | 10              | 24 | 33.8 | -38         | 08 | 05 |
| BSC4102 3.99                    | 4102 | 10              | 24 | 52.4 | -74         | 09 | 23 |
|                                 |      |                 |    |      |             |    |    |
| BSC4072 4.94                    | 4072 | 10              | 25 | 51.9 | 65          | 26 | 30 |
| 42 mu Hydrae 3.83               | 4094 | 10              | 27 | 16.5 | -16         | 57 | 43 |
| alpha Antliae 4.28              | 4104 | 10              | 28 | 16.4 | -31         | 11 | 36 |
| BSC4114 3.81                    | 4114 | 10              | 28 | 46.9 | -58         | 51 | 54 |
| 31 beta Leonis Minoris 4.2      | 4100 | 10              | 29 | 17.4 | 36          | 34 | 50 |
|                                 |      |                 |    |      |             |    |    |
| 29 delta Sextantis 5.19         | 4116 | 10              | 30 | 43.3 | -2          | 51 | 54 |
| 36 Ursae Majoris 4.82           | 4112 | 10              | 32 | 10.5 | 55          | 51 | 14 |
| PP Carinae 3.3                  | 4140 | 10              | 32 | 54.0 | -61         | 48 | 43 |
| 46 Leonis 5.43                  | 4127 | 10              | 33 | 29.9 | 14          | 00 | 38 |
| BSC4084 5.25                    | 4084 | 10              | 33 | 51.5 | 82          | 25 | 55 |
|                                 |      |                 |    |      |             |    |    |
| BSC4143 5.02                    | 4143 | 10              | 33 | 59.0 | -47         | 07 | 49 |
| 47 rho Leonis 3.84              | 4133 | 10              | 34 | 05.8 | 9           | 10 | 47 |
| 44 Hydrae 5.08                  | 4145 | 10              | 35 | 10.8 | -23         | 52 | 19 |
| gamma Chamaeleontis 4.11        | 4174 | 10              | 35 | 44.2 | -78         | 44 | 06 |

|                            |      |    |    |      |     |    |    |
|----------------------------|------|----|----|------|-----|----|----|
| BSC4159 4.45               | 4159 | 10 | 36 | 32.0 | -57 | 41 | 06 |
| 37 Ursae Majoris 5.16      | 4141 | 10 | 36 | 43.2 | 56  | 57 | 20 |
| BSC4126 4.86               | 4126 | 10 | 37 | 06.3 | 75  | 35 | 07 |
| BSC4167 3.84               | 4167 | 10 | 38 | 20.1 | -48 | 21 | 11 |
| 37 Leonis Minoris 4.68     | 4166 | 10 | 40 | 05.4 | 31  | 50 | 54 |
| BSC4180 4.29               | 4180 | 10 | 40 | 17.1 | -55 | 43 | 53 |
| theta Carinae 2.74         | 4199 | 10 | 43 | 50.1 | -64 | 31 | 24 |
| 41 Leonis Minoris 5.08     | 4192 | 10 | 44 | 44.5 | 23  | 03 | 34 |
| BSC4181 5.01               | 4181 | 10 | 44 | 47.1 | 68  | 56 | 50 |
| BSC4191 5.18               | 4191 | 10 | 44 | 58.6 | 46  | 04 | 28 |
| delta^2 Chamaeleontis 4.45 | 4234 | 10 | 45 | 59.0 | -80 | 40 | 10 |

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| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| 42 Leonis Minoris 5.36    | 4203 | 10              | 47 | 13.2 | 30          | 33 | 10 |
| 51 Leonis 5.5             | 4208 | 10              | 47 | 43.4 | 18          | 45 | 43 |
| mu Velorum 2.69           | 4216 | 10              | 47 | 49.7 | -49         | 33 | 01 |
| 53 Leonis 5.32            | 4227 | 10              | 50 | 32.5 | 10          | 24 | 54 |
| nu Hydrae 3.11            | 4232 | 10              | 50 | 50.0 | -16         | 19 | 21 |
| BSC4257 3.78              | 4257 | 10              | 54 | 29.8 | -58         | 59 | 01 |
| 46 Leonis Minoris 3.79    | 4247 | 10              | 54 | 40.4 | 34          | 04 | 56 |
| 54 Leonis 4.3             | 4259 | 10              | 56 | 56.0 | 24          | 37 | 06 |
| iota Antliae 4.6          | 4273 | 10              | 57 | 51.7 | -37         | 16 | 12 |
| Chalawan 5.03             | 4277 | 11              | 00 | 49.7 | 40          | 17 | 56 |
| Alkes 4.08                | 4287 | 11              | 00 | 58.0 | -18         | 25 | 46 |
| BSC4293 4.37              | 4293 | 11              | 01 | 16.9 | -42         | 21 | 27 |
| 58 Leonis 4.84            | 4291 | 11              | 01 | 49.4 | 3           | 29 | 07 |
| Merak 2.34                | 4295 | 11              | 03 | 18.1 | 56          | 15 | 01 |
| 60 Leonis 4.42            | 4300 | 11              | 03 | 37.9 | 20          | 02 | 53 |
| Dubhe 1.81                | 4301 | 11              | 05 | 12.9 | 61          | 37 | 06 |
| 63 chi Leonis 4.62        | 4310 | 11              | 06 | 16.6 | 7           | 12 | 11 |
| chi^1 Hydrae 4.92         | 4314 | 11              | 06 | 30.8 | -27         | 25 | 35 |
| v382 Carinae 3.93         | 4337 | 11              | 09 | 38.6 | -59         | 06 | 29 |
| 52 psi Ursae Majoris 3    | 4335 | 11              | 11 | 01.8 | 44          | 21 | 54 |
| 11 beta Crateris 4.46     | 4343 | 11              | 12 | 51.8 | -22         | 57 | 36 |
| BSC4350 5.37              | 4350 | 11              | 13 | 40.3 | -49         | 14 | 03 |
| Zosma 2.56                | 4357 | 11              | 15 | 24.4 | 20          | 23 | 20 |
| Chertan 3.33              | 4359 | 11              | 15 | 31.4 | 15          | 17 | 43 |
| 74 phi Leonis 4.45        | 4368 | 11              | 17 | 54.4 | -3          | 47 | 09 |
| SV Crateris 6.11          | 4369 | 11              | 18 | 12.6 | -7          | 16 | 07 |
| Alula Borealis 3.49       | 4377 | 11              | 19 | 47.6 | 32          | 57 | 37 |
| 55 Ursae Majoris 4.76     | 4380 | 11              | 20 | 27.5 | 38          | 03 | 03 |
| 12 delta Crateris 3.56    | 4382 | 11              | 20 | 33.9 | -14         | 54 | 41 |
| pi Centauri 3.9           | 4390 | 11              | 22 | 07.8 | -54         | 37 | 31 |
| 77 sigma Leonis 4.05      | 4386 | 11              | 22 | 23.8 | 5           | 53 | 41 |
| 78 iota Leonis 4          | 4399 | 11              | 25 | 11.8 | 10          | 23 | 40 |
| 15 gamma Crateris 4.06    | 4405 | 11              | 26 | 06.4 | -17         | 49 | 08 |

|                       |      |    |    |      |     |    |    |
|-----------------------|------|----|----|------|-----|----|----|
| 84 tau Leonis 4.95    | 4418 | 11 | 29 | 11.7 | 2   | 43 | 16 |
| Giausar 3.82          | 4434 | 11 | 32 | 49.7 | 69  | 11 | 45 |
| xi Hydrae 3.54        | 4450 | 11 | 34 | 12.6 | -31 | 59 | 35 |
| lambda Centauri 3.11  | 4467 | 11 | 36 | 55.3 | -63 | 09 | 20 |
| BSC4466 5.26          | 4466 | 11 | 37 | 07.2 | -47 | 46 | 40 |
| 21 theta Crateris 4.7 | 4468 | 11 | 37 | 55.5 | -9  | 56 | 17 |
| 91 upsilon Leonis 4.3 | 4471 | 11 | 38 | 12.1 | -0  | 57 | 33 |
| o Hydrae 4.7          | 4494 | 11 | 41 | 26.1 | -34 | 52 | 50 |
| 61 Ursae Majoris 5.31 | 4496 | 11 | 42 | 19.9 | 34  | 03 | 47 |
| 3 Draconis 5.32       | 4504 | 11 | 43 | 49.0 | 66  | 36 | 33 |
| v810 Centauri 5       | 4511 | 11 | 44 | 42.0 | -62 | 37 | 32 |
| 27 zeta Crateris 4.71 | 4514 | 11 | 46 | 00.4 | -18 | 29 | 13 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 17

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| lambda Muscae 3.63        | 4520 | 11              | 46 | 46.7 | -66         | 51 | 53 |
| 3 nu Virginis 4.04        | 4517 | 11              | 47 | 07.0 | 6           | 23 | 31 |
| 63 chi Ursae Majoris 3.69 | 4518 | 11              | 47 | 19.9 | 47          | 38 | 36 |
| BSC4522 4.11              | 4522 | 11              | 47 | 42.6 | -61         | 18 | 53 |
| 93 DQ Leonis 4.5          | 4527 | 11              | 49 | 14.7 | 20          | 04 | 58 |
| II Hydrae 5.1             | 4532 | 11              | 49 | 59.4 | -26         | 53 | 10 |
| Denebola 2.14             | 4534 | 11              | 50 | 18.3 | 14          | 26 | 06 |
| BSC4537 4.3               | 4537 | 11              | 50 | 53.3 | -63         | 55 | 29 |
| Zavijava 3.59             | 4540 | 11              | 51 | 58.1 | 1           | 37 | 35 |
| BSC4546 4.47              | 4546 | 11              | 52 | 22.5 | -45         | 18 | 35 |
| beta Hydrae 4.29          | 4552 | 11              | 54 | 08.9 | -34         | 02 | 40 |
| Phecda 2.41               | 4554 | 11              | 55 | 06.5 | 53          | 33 | 31 |
| 95 Leonis 5.53            | 4564 | 11              | 56 | 55.9 | 15          | 30 | 38 |
| 30 eta Crateris 5.17      | 4567 | 11              | 57 | 16.0 | -17         | 17 | 14 |
| 8 pi Virginis 4.65        | 4589 | 12              | 02 | 07.6 | 6           | 28 | 40 |
| theta^1 Crucis 4.32       | 4599 | 12              | 04 | 17.2 | -63         | 26 | 57 |
| BSC4600 5.15              | 4600 | 12              | 04 | 56.1 | -42         | 34 | 16 |
| 9 o Virginis 4.12         | 4608 | 12              | 06 | 27.3 | 8           | 35 | 49 |
| eta Crucis 4.14           | 4616 | 12              | 08 | 10.6 | -64         | 45 | 02 |
| BSC4618 4.46              | 4618 | 12              | 09 | 21.9 | -50         | 47 | 51 |
| delta Centauri 2.58       | 4621 | 12              | 09 | 38.2 | -50         | 51 | 31 |
| Alchiba 4.02              | 4623 | 12              | 09 | 40.8 | -24         | 51 | 55 |
| 2 epsilon Corvi 3.02      | 4630 | 12              | 11 | 23.1 | -22         | 45 | 21 |
| rho Centauri 3.97         | 4638 | 12              | 12 | 56.5 | -52         | 30 | 17 |
| BSC4646 5.14              | 4646 | 12              | 13 | 19.0 | 77          | 28 | 49 |
| delta Crucis 2.79         | 4656 | 12              | 16 | 27.6 | -58         | 53 | 06 |
| Megrez 3.32               | 4660 | 12              | 16 | 37.5 | 56          | 53 | 48 |
| Gienah 2.58               | 4662 | 12              | 17 | 04.0 | -17         | 40 | 40 |
| epsilon Muscae 4.06       | 4671 | 12              | 18 | 55.0 | -68         | 05 | 49 |
| zeta Crucis 4.06          | 4679 | 12              | 19 | 47.0 | -64         | 08 | 21 |
| beta Chamaeleontis 4.24   | 4674 | 12              | 19 | 50.3 | -79         | 26 | 53 |
| 3 Canum Venaticorum 5.28  | 4690 | 12              | 21 | 00.6 | 48          | 50 | 54 |

|                               |      |    |    |      |     |    |    |
|-------------------------------|------|----|----|------|-----|----|----|
| Zaniah 3.89                   | 4689 | 12 | 21 | 09.5 | -0  | 48 | 10 |
| 16 Virginis 4.97              | 4695 | 12 | 21 | 35.6 | 3   | 10 | 35 |
| epsilon Crucis 3.59           | 4700 | 12 | 22 | 41.8 | -60 | 32 | 10 |
| 12 Comae Berenices 4.78       | 4707 | 12 | 23 | 43.9 | 25  | 42 | 37 |
| 6 Canum Venaticorum 5.01      | 4728 | 12 | 27 | 02.9 | 38  | 52 | 58 |
| Acrux 0.77                    | 4730 | 12 | 27 | 58.7 | -63 | 14 | 04 |
| 15 gamma Comae Berenices 4.35 | 4737 | 12 | 28 | 09.3 | 28  | 07 | 57 |
| sigma Centauri 3.91           | 4743 | 12 | 29 | 22.4 | -50 | 21 | 57 |
| BSC4748 5.45                  | 4748 | 12 | 29 | 40.9 | -39 | 10 | 35 |
| 74 Ursae Majoris 5.37         | 4760 | 12 | 31 | 05.4 | 58  | 16 | 16 |
| Algorab 2.94                  | 4757 | 12 | 31 | 07.9 | -16 | 39 | 06 |
| Gacrux 1.59                   | 4763 | 12 | 32 | 32.3 | -57 | 15 | 01 |
| 8 eta Corvi 4.3               | 4775 | 12 | 33 | 20.1 | -16 | 19 | 53 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 18

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| gamma Muscae 3.84         | 4773 | 12              | 33 | 57.6 | -72         | 16 | 05 |
| 5 kappa Draconis 3.85     | 4787 | 12              | 34 | 30.8 | 69          | 39 | 12 |
| BSC4783 5.42              | 4783 | 12              | 34 | 51.0 | 33          | 06 | 45 |
| Chara 4.24                | 4785 | 12              | 34 | 53.9 | 41          | 13 | 29 |
| 9 beta Corvi 2.65         | 4786 | 12              | 35 | 40.6 | -23         | 31 | 55 |
| 23 Comae Berenices 4.8    | 4789 | 12              | 36 | 04.1 | 22          | 29 | 42 |
| 24 Comae Berenices 5.03   | 4792 | 12              | 36 | 21.3 | 18          | 14 | 34 |
| alpha Muscae 2.69         | 4798 | 12              | 38 | 40.2 | -69         | 16 | 13 |
| tau Centauri 3.85         | 4802 | 12              | 39 | 03.2 | -48         | 40 | 33 |
| 26 chi Virginis 4.66      | 4813 | 12              | 40 | 30.7 | -8          | 07 | 49 |
| gamma Centauri 2.2        | 4819 | 12              | 42 | 52.8 | -49         | 05 | 38 |
| 29 gamma^2 Virginis 2.74  | 4826 | 12              | 42 | 54.0 | -1          | 34 | 59 |
| Porrina 2.74              | 4825 | 12              | 42 | 54.0 | -1          | 35 | 01 |
| 30 rho Virginis 4.88      | 4828 | 12              | 43 | 07.3 | 10          | 06 | 03 |
| BSC4839 5.46              | 4839 | 12              | 45 | 19.2 | -28         | 27 | 29 |
| Y Canum Venaticorum 5.42  | 4846 | 12              | 46 | 16.5 | 45          | 18 | 24 |
| 32 FM Virginis 5.22       | 4847 | 12              | 46 | 51.1 | 7           | 32 | 23 |
| beta Muscae 3.04          | 4844 | 12              | 47 | 48.5 | -68         | 14 | 30 |
| Mimosa 1.25               | 4853 | 12              | 49 | 10.1 | -59         | 49 | 20 |
| BSC4874 4.9               | 4874 | 12              | 52 | 01.2 | -34         | 07 | 56 |
| 31 Comae Berenices 4.93   | 4883 | 12              | 52 | 53.3 | 27          | 24 | 28 |
| BSC4888 4.33              | 4888 | 12              | 54 | 30.6 | -49         | 04 | 34 |
| BSC4889 4.25              | 4889 | 12              | 54 | 48.1 | -40         | 18 | 42 |
| Alioth 1.76               | 4905 | 12              | 55 | 05.9 | 55          | 49 | 38 |
| 40 psi Virginis 4.77      | 4902 | 12              | 55 | 37.6 | -9          | 40 | 18 |
| mu^1 Crucis 4.03          | 4898 | 12              | 56 | 02.9 | -57         | 18 | 38 |
| 8 Draconis 5.23           | 4916 | 12              | 56 | 26.5 | 65          | 18 | 21 |
| 43 delta Virginis 3.39    | 4910 | 12              | 56 | 50.2 | 3           | 15 | 53 |
| Cor Caroli 2.89           | 4915 | 12              | 57 | 10.0 | 38          | 11 | 12 |
| iota Octantis 5.45        | 4870 | 12              | 57 | 50.2 | -85         | 15 | 19 |
| 78 Ursae Majoris 4.93     | 4931 | 13              | 01 | 46.3 | 56          | 14 | 05 |

|                              |      |    |    |      |     |    |    |
|------------------------------|------|----|----|------|-----|----|----|
| Vindemiatrix 2.85            | 4932 | 13 | 03 | 23.7 | 10  | 49 | 40 |
| delta Muscae 3.61            | 4923 | 13 | 03 | 59.6 | -71 | 40 | 49 |
| 14 Canum Venaticorum 5.2     | 4943 | 13 | 06 | 52.8 | 35  | 40 | 06 |
| xi^2 Centauri 4.27           | 4942 | 13 | 08 | 21.1 | -50 | 02 | 13 |
| 51 theta Virginis 4.38       | 4963 | 13 | 11 | 13.2 | -5  | 40 | 09 |
| 43 beta Comae Berenices 4.23 | 4983 | 13 | 13 | 00.7 | 27  | 45 | 16 |
| eta Muscae 4.79              | 4993 | 13 | 16 | 56.3 | -68 | 01 | 25 |
| BSC5006 5.1                  | 5006 | 13 | 18 | 15.1 | -31 | 38 | 07 |
| 20 AO Canum Venaticorum 4.72 | 5017 | 13 | 18 | 38.2 | 40  | 26 | 39 |
| 60 sigma Virginis 4.78       | 5015 | 13 | 18 | 50.5 | 5   | 20 | 29 |
| 61 Virginis 4.74             | 5019 | 13 | 19 | 41.4 | -18 | 26 | 48 |
| 46 gamma Hydrae 2.99         | 5020 | 13 | 20 | 15.5 | -23 | 18 | 00 |
| iota Centauri 2.75           | 5028 | 13 | 21 | 58.9 | -36 | 50 | 27 |
| BSC5035 4.52                 | 5035 | 13 | 24 | 14.1 | -61 | 06 | 57 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 19

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| Mizar 2.23                | 5054 | 13              | 24 | 54.4 | 54          | 47 | 53 |
| Alcor 3.99                | 5062 | 13              | 26 | 12.0 | 54          | 51 | 39 |
| Spica 0.98                | 5056 | 13              | 26 | 29.1 | -11         | 17 | 18 |
| 68 Virginis 5.27          | 5064 | 13              | 28 | 01.0 | -12         | 50 | 03 |
| BSC5085 5.4               | 5085 | 13              | 29 | 20.7 | 59          | 49 | 11 |
| 70 Virginis 4.97          | 5072 | 13              | 29 | 37.6 | 13          | 38 | 55 |
| BSC5089 3.9               | 5089 | 13              | 32 | 28.3 | -39         | 31 | 58 |
| 78 CW Virginis 4.92       | 5105 | 13              | 35 | 22.3 | 3           | 32 | 02 |
| BH Canum Venaticorum 4.91 | 5110 | 13              | 35 | 53.2 | 37          | 03 | 27 |
| 79 zeta Virginis 3.38     | 5107 | 13              | 35 | 56.4 | -0          | 43 | 12 |
| BSC5139 5.5               | 5139 | 13              | 37 | 46.4 | 71          | 07 | 04 |
| epsilon Centauri 2.29     | 5132 | 13              | 41 | 27.3 | -53         | 35 | 24 |
| v744 Centauri 5.74        | 5134 | 13              | 41 | 31.4 | -50         | 04 | 23 |
| 82 Virginis 5.03          | 5150 | 13              | 42 | 54.0 | -8          | 49 | 33 |
| 1 Centauri 4.23           | 5168 | 13              | 47 | 05.2 | -33         | 10 | 00 |
| 4 tau Bootis 4.5          | 5185 | 13              | 48 | 25.5 | 17          | 20 | 08 |
| Alkaid 1.85               | 5191 | 13              | 48 | 30.2 | 49          | 11 | 30 |
| v766 Centauri 6.4         | 5171 | 13              | 48 | 54.9 | -62         | 42 | 39 |
| 5 upsilon Bootis 4.05     | 5200 | 13              | 50 | 39.5 | 15          | 40 | 38 |
| 2 v806 Centauri 4.19      | 5192 | 13              | 50 | 52.3 | -34         | 34 | 20 |
| nu Centauri 3.41          | 5190 | 13              | 50 | 58.9 | -41         | 48 | 32 |
| mu Centauri 3.47          | 5193 | 13              | 51 | 06.0 | -42         | 35 | 42 |
| 89 Virginis 4.96          | 5196 | 13              | 51 | 12.3 | -18         | 15 | 19 |
| 10 CU Draconis 4.58       | 5226 | 13              | 52 | 08.8 | 64          | 36 | 10 |
| Muphrid 2.68              | 5235 | 13              | 55 | 50.9 | 18          | 16 | 32 |
| zeta Centauri 2.55        | 5231 | 13              | 57 | 04.8 | -47         | 24 | 28 |
| BSC5241 4.71              | 5241 | 13              | 59 | 26.8 | -63         | 48 | 20 |
| phi Centauri 3.83         | 5248 | 13              | 59 | 46.1 | -42         | 13 | 09 |
| 47 Hydrae 5.2             | 5250 | 13              | 59 | 53.9 | -25         | 05 | 26 |
| upsilon^1Cen 3.87         | 5249 | 14              | 00 | 12.1 | -44         | 55 | 19 |

|                               |      |    |    |      |     |    |    |
|-------------------------------|------|----|----|------|-----|----|----|
| 93 tau Virginis 4.23          | 5264 | 14 | 02 | 53.6 | 1   | 25 | 38 |
| upsilon <sup>2</sup> Cen 4.34 | 5260 | 14 | 03 | 15.9 | -45 | 43 | 15 |
| BSC5270 6.18                  | 5270 | 14 | 03 | 43.9 | 9   | 34 | 06 |
| Thuban 3.67                   | 5291 | 14 | 05 | 03.2 | 64  | 15 | 33 |
| Hadar 0.61                    | 5267 | 14 | 05 | 34.4 | -60 | 29 | 24 |
| chi Centauri 4.36             | 5285 | 14 | 07 | 33.0 | -41 | 17 | 45 |
| 49 pi Hydrae 3.25             | 5287 | 14 | 07 | 46.3 | -26 | 47 | 57 |
| theta Apodis 5.69             | 5261 | 14 | 07 | 48.0 | -76 | 54 | 47 |
| Menkent 2.06                  | 5288 | 14 | 08 | 07.9 | -36 | 29 | 21 |
| 4 Ursae Minoris 4.8           | 5321 | 14 | 08 | 47.3 | 77  | 25 | 56 |
| BY Bootis 5.13                | 5299 | 14 | 08 | 54.3 | 43  | 44 | 19 |
| 12 Bootis 4.82                | 5304 | 14 | 11 | 30.8 | 24  | 58 | 36 |
| 98 kappa Virginis 4.18        | 5315 | 14 | 14 | 12.2 | -10 | 23 | 11 |
| Arcturus -0.05                | 5340 | 14 | 16 | 46.6 | 19  | 03 | 20 |
| 21 iota Bootis 4.75           | 5350 | 14 | 17 | 01.8 | 51  | 15 | 18 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 20

| Designation and Magnitude        | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------------|------|-----------------|----|------|-------------|----|----|
|                                  |      | h               | m  | s    | deg         | m  | s  |
| Syrma 4.07                       | 5338 | 14              | 17 | 18.0 | -6          | 06 | 59 |
| 19 lambda Bootis 4.18            | 5351 | 14              | 17 | 18.8 | 45          | 58 | 36 |
| BSC5361 4.8                      | 5361 | 14              | 19 | 01.8 | 35          | 23 | 50 |
| 100 lambda Virginis 4.52         | 5359 | 14              | 20 | 26.2 | -13         | 28 | 57 |
| 18 Bootis 5.41                   | 5365 | 14              | 20 | 27.3 | 12          | 53 | 33 |
| iota Lupi 3.55                   | 5354 | 14              | 20 | 58.9 | -46         | 10 | 12 |
| psi Centauri 4.05                | 5367 | 14              | 22 | 03.2 | -37         | 59 | 48 |
| BSC5358 4.3                      | 5358 | 14              | 22 | 03.3 | -56         | 29 | 52 |
| v761 Centauri 4.41               | 5378 | 14              | 24 | 33.4 | -39         | 37 | 20 |
| BSC5392 5.1                      | 5392 | 14              | 25 | 24.6 | 5           | 42 | 36 |
| 23 theta Bootis 4.04             | 5404 | 14              | 26 | 01.7 | 51          | 44 | 18 |
| BSC5390 5.34                     | 5390 | 14              | 26 | 12.7 | -24         | 54 | 59 |
| 5 Ursae Minoris 4.25             | 5430 | 14              | 27 | 30.1 | 75          | 35 | 13 |
| 22 Bootis 5.4                    | 5405 | 14              | 27 | 35.6 | 19          | 07 | 04 |
| tau <sup>1</sup> Lupi 4.56       | 5395 | 14              | 27 | 43.2 | -45         | 19 | 51 |
| tau <sup>2</sup> Lupi 4.33       | 5396 | 14              | 27 | 45.9 | -45         | 29 | 19 |
| 105 phi Virginis 4.81            | 5409 | 14              | 29 | 27.9 | -2          | 20 | 11 |
| 52 Hydrae 4.97                   | 5407 | 14              | 29 | 36.8 | -29         | 36 | 02 |
| delta Octantis 4.31              | 5339 | 14              | 31 | 09.3 | -83         | 46 | 35 |
| 25 rho Bootis 3.57               | 5429 | 14              | 32 | 53.0 | 30          | 15 | 53 |
| Seginus 3.04                     | 5435 | 14              | 33 | 03.6 | 38          | 12 | 07 |
| sigma Lupi 4.44                  | 5425 | 14              | 34 | 16.9 | -50         | 33 | 51 |
| 28 sigma Bootis 4.47             | 5447 | 14              | 35 | 44.6 | 29          | 38 | 23 |
| eta Centauri 2.33                | 5440 | 14              | 37 | 04.3 | -42         | 15 | 50 |
| rho Lupi 4.05                    | 5453 | 14              | 39 | 32.8 | -49         | 31 | 51 |
| 33 Bootis 5.39                   | 5468 | 14              | 39 | 44.8 | 44          | 17 | 59 |
| alpha <sup>2</sup> Centauri 1.35 | 5460 | 14              | 41 | 16.6 | -60         | 56 | 05 |
| Rigil Kentaurus -0.01            | 5459 | 14              | 41 | 17.0 | -60         | 56 | 11 |
| 30 zeta Bootis 3.78              | 5478 | 14              | 42 | 19.1 | 13          | 37 | 27 |
| BSC5471 4.01                     | 5471 | 14              | 43 | 29.3 | -37         | 53 | 50 |

|                       |      |    |    |      |     |    |    |
|-----------------------|------|----|----|------|-----|----|----|
| alpha Lupi 2.3        | 5469 | 14 | 43 | 34.1 | -47 | 29 | 30 |
| 107 mu Virginis 3.87  | 5487 | 14 | 44 | 21.2 | -5  | 45 | 49 |
| 34 W Bootis 4.8       | 5490 | 14 | 44 | 29.9 | 26  | 25 | 29 |
| alpha Circini 3.18    | 5463 | 14 | 44 | 30.9 | -65 | 04 | 47 |
| BSC5485 4.06          | 5485 | 14 | 45 | 09.8 | -35 | 16 | 40 |
| Izar 2.35             | 5506 | 14 | 46 | 03.3 | 26  | 58 | 19 |
| 109 Virginis 3.73     | 5511 | 14 | 47 | 29.2 | 1   | 47 | 27 |
| BSC5495 5.22          | 5495 | 14 | 48 | 44.9 | -52 | 29 | 08 |
| 56 Hydrae 5.23        | 5516 | 14 | 49 | 10.9 | -26 | 11 | 19 |
| Kochab 2.07           | 5563 | 14 | 50 | 39.5 | 74  | 03 | 18 |
| alpha Apodis 3.83     | 5470 | 14 | 51 | 01.3 | -79 | 08 | 45 |
| 58 Hydrae 4.42        | 5526 | 14 | 51 | 43.9 | -28 | 03 | 40 |
| 8 alpha^1 Librae 5.15 | 5530 | 14 | 52 | 02.5 | -16 | 05 | 51 |
| BSC5552 5.48          | 5552 | 14 | 52 | 03.8 | 59  | 11 | 42 |
| Zubenelgenubi 2.75    | 5531 | 14 | 52 | 14.2 | -16 | 08 | 31 |

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| Designation and Magnitude      | BSC# | Right Ascension |    |      | Declination |    |    |
|--------------------------------|------|-----------------|----|------|-------------|----|----|
|                                |      | h               | m  | s    | deg         | m  | s  |
| o Lupi 4.32                    | 5528 | 14              | 53 | 14.7 | -43         | 40 | 31 |
| BSC5558 5.32                   | 5558 | 14              | 57 | 15.3 | -33         | 57 | 13 |
| RR Ursae Minoris 4.63          | 5589 | 14              | 57 | 58.7 | 65          | 50 | 07 |
| 15 xi^2 Librae 5.48            | 5564 | 14              | 58 | 06.0 | -11         | 30 | 26 |
| 16 Librae 4.47                 | 5570 | 14              | 58 | 27.8 | -4          | 26 | 42 |
| beta Lupi 2.68                 | 5571 | 15              | 00 | 08.8 | -43         | 13 | 51 |
| kappa Centauri 3.13            | 5576 | 15              | 00 | 45.8 | -42         | 12 | 03 |
| 19 delta Librae 4.91           | 5586 | 15              | 02 | 17.0 | -8          | 36 | 53 |
| Nekkar 3.49                    | 5602 | 15              | 02 | 52.0 | 40          | 17 | 42 |
| 110 Virginis 4.39              | 5601 | 15              | 04 | 08.3 | 1           | 59 | 48 |
| 43 psi Bootis 4.52             | 5616 | 15              | 05 | 29.6 | 26          | 51 | 12 |
| 20 sigma Librae 3.25           | 5603 | 15              | 05 | 30.4 | -25         | 22 | 36 |
| BSC5635 5.24                   | 5635 | 15              | 06 | 58.7 | 54          | 27 | 45 |
| 45 Bootis 4.93                 | 5634 | 15              | 08 | 22.5 | 24          | 46 | 30 |
| lambda Lupi 4.07               | 5626 | 15              | 10 | 30.2 | -45         | 22 | 20 |
| 24 iota Librae 4.54            | 5652 | 15              | 13 | 37.3 | -19         | 52 | 58 |
| kappa^1 Lupi 3.88              | 5646 | 15              | 13 | 38.9 | -48         | 49 | 44 |
| zeta Lupi 3.41                 | 5649 | 15              | 14 | 03.5 | -52         | 11 | 26 |
| BSC5691 5.15                   | 5691 | 15              | 14 | 55.7 | 67          | 15 | 14 |
| 1 Lupi 4.91                    | 5660 | 15              | 16 | 07.7 | -31         | 36 | 32 |
| 3 Serpentis 5.32               | 5675 | 15              | 16 | 24.4 | 4           | 50 | 59 |
| 49 delta Bootis 3.46           | 5681 | 15              | 16 | 29.3 | 33          | 13 | 29 |
| Zubeneshamali 2.61             | 5685 | 15              | 18 | 19.6 | -9          | 28 | 18 |
| 2 Lupi 4.35                    | 5686 | 15              | 19 | 19.6 | -30         | 14 | 14 |
| beta Circini 4.07              | 5670 | 15              | 19 | 27.0 | -58         | 53 | 25 |
| mu Lupi 4.27                   | 5683 | 15              | 20 | 14.8 | -47         | 57 | 49 |
| Pherkad 3                      | 5735 | 15              | 20 | 42.4 | 71          | 44 | 48 |
| gamma Trianguli Australis 2.87 | 5671 | 15              | 21 | 13.9 | -68         | 46 | 03 |
| delta Lupi 3.22                | 5695 | 15              | 22 | 59.3 | -40         | 44 | 03 |

|                               |      |    |    |      |     |    |    |
|-------------------------------|------|----|----|------|-----|----|----|
| phi^1 Lupi 3.57               | 5705 | 15 | 23 | 21.9 | -36 | 20 | 55 |
| epsilon Lupi 3.37             | 5708 | 15 | 24 | 21.2 | -44 | 46 | 33 |
| phi^2 Lupi 4.54               | 5712 | 15 | 24 | 43.6 | -36 | 56 | 41 |
| gamma Circini 4.48            | 5704 | 15 | 25 | 20.8 | -59 | 24 | 24 |
| Alkalurops 4.31               | 5733 | 15 | 25 | 24.9 | 37  | 17 | 32 |
| Edasich 3.29                  | 5744 | 15 | 25 | 28.5 | 58  | 52 | 51 |
| 9 tau^1 Serpentis 5.16        | 5739 | 15 | 26 | 55.5 | 15  | 20 | 35 |
| Nusakan 3.66                  | 5747 | 15 | 28 | 50.2 | 29  | 01 | 21 |
| 52 nu^1 Bootis 5.04           | 5763 | 15 | 31 | 48.5 | 40  | 45 | 03 |
| 4 theta Coronae Borealis 4.14 | 5778 | 15 | 33 | 55.0 | 31  | 16 | 39 |
| kappa^1 Apodis 5.4            | 5730 | 15 | 34 | 14.1 | -73 | 28 | 17 |
| 37 Librae 4.61                | 5777 | 15 | 35 | 31.1 | -10 | 08 | 48 |
| Alphecca 2.22                 | 5793 | 15 | 35 | 43.4 | 26  | 38 | 01 |
| 13 delta Serpentis 3.8        | 5789 | 15 | 35 | 58.3 | 10  | 27 | 30 |
| gamma Lupi 2.8                | 5776 | 15 | 36 | 46.8 | -41 | 14 | 49 |
| 38 gamma Librae 3.91          | 5787 | 15 | 36 | 53.9 | -14 | 52 | 10 |

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| Designation and Magnitude        | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------------|------|-----------------|----|------|-------------|----|----|
|                                  |      | h               | m  | s    | deg         | m  | s  |
| BSC5784 5.44                     | 5784 | 15              | 37 | 53.3 | -44         | 28 | 36 |
| 39 upsilon Librae 3.6            | 5794 | 15              | 38 | 30.9 | -28         | 12 | 52 |
| 54 phi Bootis 5.25               | 5823 | 15              | 38 | 42.3 | 40          | 16 | 29 |
| epsilon Trianguli Australis 4.11 | 5771 | 15              | 38 | 59.4 | -66         | 23 | 48 |
| omega Lupi 4.34                  | 5797 | 15              | 39 | 42.7 | -42         | 38 | 45 |
| 40 tau Librae 3.66               | 5812 | 15              | 40 | 09.9 | -29         | 51 | 23 |
| BSC5798 5.43                     | 5798 | 15              | 40 | 39.3 | -52         | 27 | 05 |
| 16 zeta Ursae Minoris 4.29       | 5903 | 15              | 43 | 14.0 | 77          | 43 | 04 |
| 43 kappa Librae 4.75             | 5838 | 15              | 43 | 21.6 | -19         | 45 | 23 |
| 8 gamma Coronae Borealis 3.81    | 5849 | 15              | 43 | 46.2 | 26          | 13 | 10 |
| Unukalhai 2.63                   | 5854 | 15              | 45 | 28.4 | 6           | 21 | 01 |
| BSC5886 5.19                     | 5886 | 15              | 47 | 02.7 | 62          | 31 | 28 |
| 28 beta Serpentis 3.65           | 5867 | 15              | 47 | 19.0 | 15          | 20 | 48 |
| 27 lambda Serpentis 4.42         | 5868 | 15              | 47 | 38.0 | 7           | 16 | 40 |
| 35 kappa Serpentis 4.09          | 5879 | 15              | 49 | 50.5 | 18          | 04 | 03 |
| 10 delta Coronae Borealis 4.59   | 5889 | 15              | 50 | 37.2 | 25          | 59 | 41 |
| 32 mu Serpentis 3.54             | 5881 | 15              | 50 | 53.9 | -3          | 30 | 12 |
| 37 epsilon Serpentis 3.71        | 5892 | 15              | 52 | 02.3 | 4           | 24 | 21 |
| 11 kappa Coronae Borealis 4.79   | 5901 | 15              | 52 | 09.3 | 35          | 34 | 57 |
| 5 chi Lupi 3.97                  | 5883 | 15              | 52 | 31.3 | -33         | 41 | 59 |
| 1 chi Herculis 4.6               | 5914 | 15              | 53 | 31.4 | 42          | 23 | 03 |
| 45 lambda Librae 5.04            | 5902 | 15              | 54 | 45.5 | -20         | 14 | 19 |
| 46 theta Librae 4.13             | 5908 | 15              | 55 | 13.4 | -16         | 47 | 57 |
| beta Trianguli Australis 2.83    | 5897 | 15              | 57 | 19.3 | -63         | 30 | 13 |
| 41 gamma Serpentis 3.85          | 5933 | 15              | 57 | 35.0 | 15          | 34 | 59 |
| CL Draconis 4.96                 | 5960 | 15              | 58 | 22.4 | 54          | 40 | 53 |
| 5 rho Scorpii 3.87               | 5928 | 15              | 58 | 24.0 | -29         | 17 | 01 |
| 13 epsilon Coronae Borealis 4.14 | 5947 | 15              | 58 | 36.1 | 26          | 48 | 30 |

|                              |      |    |    |      |     |    |    |
|------------------------------|------|----|----|------|-----|----|----|
| 48 FX Librae 4.95            | 5941 | 15 | 59 | 33.8 | -14 | 20 | 53 |
| 6 pi Scorpii 2.89            | 5944 | 16 | 00 | 20.3 | -26 | 10 | 57 |
| T Coronae Borealis 10.08     | 5958 | 16 | 00 | 31.7 | 25  | 51 | 07 |
| BSC5943 4.99                 | 5943 | 16 | 01 | 10.7 | -41 | 48 | 45 |
| 49 Librae 5.47               | 5954 | 16 | 01 | 42.1 | -16 | 36 | 14 |
| eta Lupi 3.42                | 5948 | 16 | 01 | 45.1 | -38 | 27 | 52 |
| Dschubba 2.29                | 5953 | 16 | 01 | 47.0 | -22 | 41 | 23 |
| 13 theta Draconis 4.01       | 5986 | 16 | 02 | 21.0 | 58  | 30 | 02 |
| Acraab 2.56                  | 5984 | 16 | 06 | 51.8 | -19 | 52 | 14 |
| 8 beta^2 Scorpii 4.9         | 5985 | 16 | 06 | 52.1 | -19 | 52 | 01 |
| theta Lupi 4.22              | 5987 | 16 | 08 | 12.3 | -36 | 52 | 01 |
| delta Normae 4.73            | 5980 | 16 | 08 | 13.8 | -45 | 14 | 14 |
| 9 omega^1 Scorpii 3.93       | 5993 | 16 | 08 | 14.5 | -20 | 44 | 02 |
| 10 omega^2 Scorpii 4.31      | 5997 | 16 | 08 | 50.7 | -20 | 56 | 00 |
| 7 kappa Herculis 5           | 6008 | 16 | 09 | 10.9 | 16  | 59 | 00 |
| 11 phi Herculis 4.23         | 6023 | 16 | 09 | 32.4 | 44  | 52 | 18 |
| 16 tau Coronae Borealis 4.73 | 6018 | 16 | 09 | 52.0 | 36  | 25 | 49 |

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| Designation and Magnitude      | BSC# | Right Ascension |    |      | Declination |    |    |
|--------------------------------|------|-----------------|----|------|-------------|----|----|
|                                |      | h               | m  | s    | deg         | m  | s  |
| 19 Ursae Minoris 5.48          | 6079 | 16              | 10 | 09.5 | 75          | 48 | 54 |
| 14 nu Scorpii 4                | 6027 | 16              | 13 | 25.3 | -19         | 31 | 21 |
| kappa Normae 4.95              | 6024 | 16              | 15 | 25.3 | -54         | 41 | 28 |
| Yed Prior 2.73                 | 6056 | 16              | 15 | 37.8 | -3          | 45 | 20 |
| 21 eta Ursae Minoris 4.95      | 6116 | 16              | 16 | 48.9 | 75          | 41 | 52 |
| delta Trianguli Australis 3.86 | 6030 | 16              | 17 | 41.2 | -63         | 44 | 43 |
| Yed Posterior 3.23             | 6075 | 16              | 19 | 37.1 | -4          | 45 | 02 |
| 22 tau Herculis 3.91           | 6092 | 16              | 20 | 28.7 | 46          | 15 | 22 |
| BSC6077 5.53                   | 6077 | 16              | 21 | 06.0 | -30         | 57 | 50 |
| gamma^2 Normae 4.01            | 6072 | 16              | 21 | 40.9 | -50         | 12 | 47 |
| 20 sigma Scorpii 2.9           | 6084 | 16              | 22 | 40.9 | -25         | 38 | 58 |
| 20 gamma Herculis 3.74         | 6095 | 16              | 23 | 00.0 | 19          | 05 | 50 |
| 50 sigma Serpentis 4.82        | 6093 | 16              | 23 | 18.7 | 0           | 58 | 23 |
| delta^1 Apodis 4.68            | 6020 | 16              | 24 | 05.4 | -78         | 45 | 08 |
| 14 eta Draconis 2.73           | 6132 | 16              | 24 | 19.5 | 61          | 27 | 34 |
| 4 psi Ophiuchi 4.48            | 6104 | 16              | 25 | 32.3 | -20         | 05 | 33 |
| 24 omega Herculis 4.57         | 6117 | 16              | 26 | 32.7 | 13          | 58 | 43 |
| 15 Draconis 4.94               | 6161 | 16              | 27 | 56.7 | 68          | 42 | 54 |
| 7 chi Ophiuchi 4.22            | 6118 | 16              | 28 | 26.7 | -18         | 30 | 35 |
| epsilon Normae 4.46            | 6115 | 16              | 28 | 59.2 | -47         | 36 | 30 |
| Antares 1.06                   | 6134 | 16              | 30 | 54.7 | -26         | 29 | 04 |
| zeta Trianguli Australis 4.9   | 6098 | 16              | 31 | 07.9 | -70         | 08 | 09 |
| Kornephoros 2.78               | 6148 | 16              | 31 | 16.4 | 21          | 26 | 15 |
| Marfik 3.82                    | 6149 | 16              | 32 | 09.0 | 1           | 55 | 56 |
| 8 phi Ophiuchi 4.29            | 6147 | 16              | 32 | 32.6 | -16         | 39 | 51 |
| BSC6143 4.24                   | 6143 | 16              | 32 | 59.2 | -34         | 45 | 20 |
| 9 omega Ophiuchi 4.45          | 6153 | 16              | 33 | 35.4 | -21         | 31 | 00 |

|                               |      |    |    |      |     |    |    |
|-------------------------------|------|----|----|------|-----|----|----|
| 35 sigma Herculis 4.2         | 6168 | 16 | 34 | 53.5 | 42  | 23 | 16 |
| gamma Apodis 3.86             | 6102 | 16 | 37 | 17.1 | -78 | 56 | 49 |
| 23 tau Scorpii 2.82           | 6165 | 16 | 37 | 24.5 | -28 | 15 | 52 |
| BSC6166 4.18                  | 6166 | 16 | 37 | 59.3 | -35 | 18 | 12 |
| 13 zeta Ophiuchi 2.54         | 6175 | 16 | 38 | 30.6 | -10 | 36 | 53 |
| 42 Herculis 4.86              | 6200 | 16 | 39 | 24.8 | 48  | 52 | 53 |
| 40 zeta Herculis 2.81         | 6212 | 16 | 42 | 12.6 | 31  | 33 | 34 |
| BSC6196 4.91                  | 6196 | 16 | 42 | 59.4 | -17 | 47 | 15 |
| 22 epsilon Ursae Minoris 4.21 | 6322 | 16 | 43 | 32.8 | 81  | 59 | 36 |
| 44 eta Herculis 3.48          | 6220 | 16 | 43 | 44.1 | 38  | 52 | 37 |
| BSC6237 4.84                  | 6237 | 16 | 45 | 45.8 | 56  | 44 | 20 |
| beta Apodis 4.23              | 6163 | 16 | 46 | 38.0 | -77 | 33 | 49 |
| 20 Ophiuchi 4.64              | 6243 | 16 | 51 | 11.3 | -10 | 49 | 27 |
| Atria 1.91                    | 6217 | 16 | 51 | 16.8 | -69 | 04 | 08 |
| 26 epsilon Scorpii 2.29       | 6241 | 16 | 51 | 45.2 | -34 | 20 | 08 |
| eta Arae 3.77                 | 6229 | 16 | 51 | 54.7 | -59 | 04 | 55 |
| 51 Herculis 5.03              | 6270 | 16 | 52 | 46.1 | 24  | 37 | 00 |
| mu <sup>1</sup> Scorpii 3     | 6247 | 16 | 53 | 32.0 | -38 | 05 | 14 |

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| Designation and Magnitude      | BSC# | Right Ascension |    |      | Declination |    |    |
|--------------------------------|------|-----------------|----|------|-------------|----|----|
|                                |      | h               | m  | s    | deg         | m  | s  |
| 53 Herculis 5.34               | 6279 | 16              | 53 | 53.7 | 31          | 39 | 45 |
| mu <sup>2</sup> Scorpii 3.56   | 6252 | 16              | 53 | 59.9 | -38         | 03 | 24 |
| 25 iota Ophiuchi 4.39          | 6281 | 16              | 55 | 09.9 | 10          | 07 | 36 |
| zeta <sup>2</sup> Scorpii 3.62 | 6271 | 16              | 56 | 18.6 | -42         | 24 | 02 |
| 27 kappa Ophiuchi 3.19         | 6299 | 16              | 58 | 49.6 | 9           | 20 | 19 |
| zeta Arae 3.12                 | 6285 | 17              | 00 | 39.2 | -56         | 01 | 33 |
| 58 epsilon Herculis 3.92       | 6324 | 17              | 01 | 13.6 | 30          | 53 | 31 |
| epsilon <sup>1</sup> Ara 4.06  | 6295 | 17              | 01 | 32.5 | -53         | 11 | 43 |
| 30 Ophiuchi 4.82               | 6318 | 17              | 02 | 21.1 | -4          | 15 | 26 |
| 59 Herculis 5.27               | 6332 | 17              | 02 | 30.6 | 33          | 32 | 03 |
| 60 Herculis 4.89               | 6355 | 17              | 06 | 30.8 | 12          | 42 | 32 |
| 22 zeta Draconis 3.17          | 6396 | 17              | 08 | 51.6 | 65          | 41 | 04 |
| Sabik 2.43                     | 6378 | 17              | 11 | 46.9 | -15         | 45 | 12 |
| eta Scorpii 3.32               | 6380 | 17              | 13 | 54.6 | -43         | 16 | 08 |
| Rasalgethi 2.78                | 6406 | 17              | 15 | 45.8 | 14          | 21 | 51 |
| 67 pi Herculis 3.16            | 6418 | 17              | 15 | 53.9 | 36          | 46 | 58 |
| Sarin 3.12                     | 6410 | 17              | 16 | 02.2 | 24          | 48 | 43 |
| v656 Herculis 5.01             | 6452 | 17              | 21 | 23.5 | 18          | 02 | 00 |
| 72 Herculis 5.38               | 6458 | 17              | 21 | 34.6 | 32          | 26 | 16 |
| 53 nu Serpentis 4.32           | 6446 | 17              | 22 | 12.4 | -12         | 52 | 11 |
| 40 xi Ophiuchi 4.39            | 6445 | 17              | 22 | 28.6 | -21         | 08 | 13 |
| 42 theta Ophiuchi 3.27         | 6453 | 17              | 23 | 30.8 | -25         | 01 | 18 |
| Yildun 4.35                    | 6789 | 17              | 24 | 26.4 | 86          | 34 | 05 |
| iota Apodis 5.39               | 6411 | 17              | 24 | 50.6 | -70         | 08 | 41 |
| beta Arae 2.84                 | 6461 | 17              | 27 | 20.4 | -55         | 33 | 00 |
| gamma Arae 3.31                | 6462 | 17              | 27 | 27.6 | -56         | 23 | 53 |

|                                  |      |    |    |      |     |    |    |
|----------------------------------|------|----|----|------|-----|----|----|
| 49 sigma Ophiuchi 4.34           | 6498 | 17 | 27 | 43.8 | 4   | 07 | 15 |
| 44 Ophiuchi 4.16                 | 6486 | 17 | 27 | 52.0 | -24 | 11 | 45 |
| BSC6493 4.53                     | 6493 | 17 | 27 | 55.8 | -5  | 06 | 23 |
| 45 Ophiuchi 4.28                 | 6492 | 17 | 28 | 55.1 | -29 | 53 | 13 |
| Rastaban 2.79                    | 6536 | 17 | 30 | 59.1 | 52  | 17 | 03 |
| Maasym 4.41                      | 6526 | 17 | 31 | 43.6 | 26  | 05 | 37 |
| 27 Draconis 5.07                 | 6566 | 17 | 31 | 52.1 | 68  | 07 | 09 |
| Lesath 2.7                       | 6508 | 17 | 32 | 25.8 | -37 | 18 | 47 |
| 24 nu <sup>1</sup> Draconis 4.89 | 6554 | 17 | 32 | 39.5 | 55  | 10 | 06 |
| 25 nu <sup>2</sup> Draconis 4.86 | 6555 | 17 | 32 | 45.0 | 55  | 09 | 25 |
| delta Arae 3.6                   | 6500 | 17 | 33 | 18.9 | -60 | 42 | 04 |
| alpha Arae 2.84                  | 6510 | 17 | 33 | 44.2 | -49 | 53 | 34 |
| Shaula 1.62                      | 6527 | 17 | 35 | 16.4 | -37 | 07 | 09 |
| Rasalhague 2.08                  | 6556 | 17 | 36 | 04.2 | 12  | 32 | 38 |
| 28 omega Draconis 4.77           | 6596 | 17 | 36 | 48.5 | 68  | 44 | 47 |
| BSC6546 4.26                     | 6546 | 17 | 38 | 14.1 | -38 | 39 | 00 |
| 55 xi Serpentis 3.54             | 6561 | 17 | 38 | 59.3 | -15 | 24 | 42 |
| Sargas 1.86                      | 6553 | 17 | 39 | 04.8 | -43 | 00 | 39 |
| 85 iota Herculis 3.82            | 6588 | 17 | 40 | 09.4 | 45  | 59 | 39 |

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| Designation and Magnitude      | BSC# | Right Ascension |    |      | Declination |    |    |
|--------------------------------|------|-----------------|----|------|-------------|----|----|
|                                |      | h               | m  | s    | deg         | m  | s  |
| 31 psi Draconis 4.57           | 6636 | 17              | 41 | 30.5 | 72          | 08 | 10 |
| 56 o Serpentis 4.24            | 6581 | 17              | 42 | 47.4 | -12         | 53 | 10 |
| kappa Scorpii 2.39             | 6580 | 17              | 44 | 10.9 | -39         | 02 | 25 |
| 84 Herculis 5.73               | 6608 | 17              | 44 | 21.7 | 24          | 19 | 07 |
| Cebalrai 2.76                  | 6603 | 17              | 44 | 40.9 | 4           | 33 | 32 |
| 58 Ophiuchi 4.86               | 6595 | 17              | 44 | 53.9 | -21         | 41 | 34 |
| Cervantes 5.12                 | 6585 | 17              | 46 | 05.4 | -51         | 50 | 40 |
| 86 mu Herculis 3.42            | 6623 | 17              | 47 | 25.0 | 27          | 42 | 28 |
| eta Pavonis 3.61               | 6582 | 17              | 48 | 08.4 | -64         | 43 | 56 |
| 35 Draconis 5.02               | 6701 | 17              | 48 | 21.3 | 76          | 57 | 28 |
| 3 X Sagittarii 4.53            | 6616 | 17              | 49 | 06.1 | -27         | 50 | 16 |
| 62 gamma Ophiuchi 3.75         | 6629 | 17              | 49 | 07.3 | 2           | 42 | 00 |
| iota <sup>1</sup> Scorpii 2.99 | 6615 | 17              | 49 | 17.9 | -40         | 08 | 02 |
| BSC6630 3.19                   | 6630 | 17              | 51 | 31.5 | -37         | 02 | 55 |
| Grumium 3.73                   | 6688 | 17              | 53 | 57.1 | 56          | 52 | 10 |
| 89v441 Her 5.47                | 6685 | 17              | 56 | 24.4 | 26          | 02 | 51 |
| 91 theta Herculis 3.86         | 6695 | 17              | 57 | 05.5 | 37          | 14 | 56 |
| Eltanin 2.24                   | 6705 | 17              | 57 | 10.5 | 51          | 29 | 12 |
| 92 xi Herculis 3.7             | 6703 | 17              | 58 | 42.9 | 29          | 14 | 48 |
| 94 nu Herculis 4.41            | 6707 | 17              | 59 | 26.4 | 30          | 11 | 20 |
| 64 nu Ophiuchi 3.32            | 6698 | 18              | 00 | 22.4 | -9          | 46 | 29 |
| 93 Herculis 4.67               | 6713 | 18              | 01 | 08.8 | 16          | 45 | 05 |
| 67 Ophiuchi 3.93               | 6714 | 18              | 01 | 52.2 | 2           | 55 | 56 |
| 68 Ophiuchi 4.42               | 6723 | 18              | 02 | 59.6 | 1           | 18 | 23 |
| W Sagittarii 4.66              | 6742 | 18              | 06 | 34.9 | -29         | 34 | 36 |

|                         |      |    |    |      |     |    |    |
|-------------------------|------|----|----|------|-----|----|----|
| 70 Ophiuchi 4.03        | 6752 | 18 | 06 | 41.2 | 2   | 29 | 50 |
| Alnasl 2.98             | 6746 | 18 | 07 | 22.8 | -30 | 25 | 17 |
| BSC6791 5               | 6791 | 18 | 08 | 12.9 | 43  | 27 | 58 |
| 103 o Herculis 3.84     | 6779 | 18 | 08 | 29.8 | 28  | 46 | 02 |
| 72 Ophiuchi 3.71        | 6771 | 18 | 08 | 30.5 | 9   | 34 | 09 |
| theta Arae 3.65         | 6743 | 18 | 08 | 32.2 | -50 | 05 | 14 |
| 102 Herculis 4.37       | 6787 | 18 | 09 | 48.3 | 20  | 49 | 12 |
| pi Pavonis 4.33         | 6745 | 18 | 10 | 56.1 | -63 | 39 | 51 |
| epsilon Telescopii 4.52 | 6783 | 18 | 13 | 02.7 | -45 | 56 | 50 |
| 36 Draconis 4.99        | 6850 | 18 | 14 | 02.2 | 64  | 24 | 20 |
| 13 mu Sagittarii 3.84   | 6812 | 18 | 15 | 13.6 | -21 | 03 | 01 |
| BSC6819 5.36            | 6819 | 18 | 19 | 11.2 | -56 | 00 | 45 |
| eta Sagittarii 3.1      | 6832 | 18 | 19 | 16.9 | -36 | 45 | 07 |
| 43 phi Draconis 4.22    | 6920 | 18 | 20 | 24.1 | 71  | 21 | 01 |
| 44 chi Draconis 3.55    | 6927 | 18 | 20 | 36.7 | 72  | 44 | 35 |
| 1 kappa Lyrae 4.33      | 6872 | 18 | 20 | 43.1 | 36  | 04 | 37 |
| 74 Ophiuchi 4.85        | 6866 | 18 | 22 | 05.4 | 3   | 23 | 23 |
| Kaus Media 2.72         | 6859 | 18 | 22 | 33.6 | -29 | 48 | 56 |
| 58 eta Serpentis 3.23   | 6869 | 18 | 22 | 34.6 | -2  | 53 | 27 |
| 109 Herculis 3.85       | 6895 | 18 | 24 | 44.4 | 21  | 46 | 58 |

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| Designation and Magnitude    | BSC# | Right Ascension |    |      | Declination |    |    |
|------------------------------|------|-----------------|----|------|-------------|----|----|
|                              |      | h               | m  | s    | deg         | m  | s  |
| xi Pavonis 4.35              | 6855 | 18              | 25 | 28.8 | -61         | 28 | 46 |
| Kaus Australis 1.79          | 6879 | 18              | 25 | 47.8 | -34         | 22 | 14 |
| alpha Telescopii 3.49        | 6897 | 18              | 28 | 47.1 | -45         | 57 | 09 |
| Kaus Borealis 2.82           | 6913 | 18              | 29 | 28.8 | -25         | 24 | 22 |
| gamma Scuti 4.67             | 6930 | 18              | 30 | 35.5 | -14         | 32 | 53 |
| zeta Telescopii 4.1          | 6905 | 18              | 30 | 42.9 | -49         | 03 | 16 |
| 60 Serpentis 5.38            | 6935 | 18              | 30 | 57.4 | -1          | 58 | 03 |
| theta Coronae Australis 4.62 | 6951 | 18              | 35 | 15.0 | -42         | 17 | 32 |
| alpha Scuti 3.85             | 6973 | 18              | 36 | 32.3 | -8          | 13 | 30 |
| BSC6985 5.38                 | 6985 | 18              | 37 | 37.9 | 9           | 08 | 37 |
| Vega 0.03                    | 7001 | 18              | 37 | 46.0 | 38          | 48 | 29 |
| delta Scuti 4.7              | 7020 | 18              | 43 | 36.8 | -9          | 01 | 37 |
| epsilon Scuti 4.88           | 7032 | 18              | 44 | 51.2 | -8          | 14 | 57 |
| 50 Draconis 5.37             | 7124 | 18              | 45 | 33.8 | 75          | 27 | 42 |
| 6 zeta^1 Lyrae 4.34          | 7056 | 18              | 45 | 36.9 | 37          | 37 | 55 |
| zeta Pavonis 4.01            | 6982 | 18              | 45 | 52.9 | -71         | 24 | 10 |
| 110 Herculis 4.19            | 7061 | 18              | 46 | 42.9 | 20          | 34 | 17 |
| BSC7064 4.83                 | 7064 | 18              | 47 | 03.6 | 26          | 41 | 24 |
| 27 phi Sagittarii 3.17       | 7039 | 18              | 47 | 11.1 | -26         | 57 | 47 |
| 111 Herculis 4.34            | 7069 | 18              | 48 | 06.1 | 18          | 12 | 38 |
| beta Scuti 4.22              | 7063 | 18              | 48 | 28.4 | -4          | 43 | 11 |
| R Scuti 5.38                 | 7066 | 18              | 48 | 47.3 | -5          | 40 | 37 |
| eta^1 Coronae Australis 5.46 | 7062 | 18              | 50 | 36.3 | -43         | 39 | 03 |
| Sheliak 3.52                 | 7106 | 18              | 50 | 59.0 | 33          | 23 | 32 |
| 47 o Draconis 4.63           | 7125 | 18              | 51 | 33.6 | 59          | 25 | 08 |

|                              |      |    |    |      |     |    |    |
|------------------------------|------|----|----|------|-----|----|----|
| 52 upsilon Draconis 4.82     | 7180 | 18 | 54 | 05.2 | 71  | 19 | 46 |
| lambda Pavonis 4.22          | 7074 | 18 | 54 | 28.6 | -62 | 09 | 22 |
| 12 delta^2 Lyrae 4.22        | 7139 | 18 | 55 | 21.6 | 36  | 55 | 51 |
| 13 R Lyrae 4.08              | 7157 | 18 | 56 | 04.7 | 43  | 58 | 47 |
| Nunki 2.05                   | 7121 | 18 | 56 | 46.9 | -26 | 15 | 51 |
|                              |      |    |    |      |     |    |    |
| Alya 4.62                    | 7141 | 18 | 57 | 26.1 | 4   | 14 | 14 |
| 37 xi^2 Sagittarii 3.52      | 7150 | 18 | 59 | 11.4 | -21 | 04 | 20 |
| kappa Pavonis 4.4            | 7107 | 18 | 59 | 27.7 | -67 | 11 | 57 |
| Sulafat 3.25                 | 7178 | 18 | 59 | 51.6 | 32  | 43 | 28 |
| lambda Telescopii 4.85       | 7134 | 19 | 00 | 24.9 | -52 | 54 | 14 |
|                              |      |    |    |      |     |    |    |
| 13 epsilon Aquilae 4.02      | 7176 | 19 | 00 | 43.9 | 15  | 06 | 12 |
| 12 Aquilae 4.02              | 7193 | 19 | 02 | 59.2 | -5  | 42 | 10 |
| Ascella 2.6                  | 7194 | 19 | 04 | 09.9 | -29 | 50 | 34 |
| 39 o Sagittarii 3.76         | 7217 | 19 | 06 | 08.8 | -21 | 42 | 12 |
| 17 zeta Aquilae 2.99         | 7235 | 19 | 06 | 32.0 | 13  | 54 | 06 |
|                              |      |    |    |      |     |    |    |
| 16 lambda Aquilae 3.43       | 7236 | 19 | 07 | 32.8 | -4  | 50 | 38 |
| 18 iota Lyrae 5.25           | 7262 | 19 | 08 | 10.6 | 36  | 08 | 23 |
| 40 tau Sagittarii 3.32       | 7234 | 19 | 08 | 27.9 | -27 | 37 | 56 |
| chi Octantis 5.29            | 6721 | 19 | 08 | 30.4 | -87 | 34 | 14 |
| alpha Coronae Australis 4.11 | 7254 | 19 | 11 | 08.0 | -37 | 51 | 50 |

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| Designation and Magnitude  | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------|------|-----------------|----|------|-------------|----|----|
|                            |      | h               | m  | s    | deg         | m  | s  |
| 41 pi Sagittarii 2.88      | 7264 | 19              | 11 | 13.1 | -20         | 58 | 58 |
| beta Coronae Australis 4.1 | 7259 | 19              | 11 | 42.5 | -39         | 17 | 58 |
| Altais 3.07                | 7310 | 19              | 12 | 33.2 | 67          | 42 | 17 |
| 20 Aquilae 5.35            | 7279 | 19              | 14 | 00.3 | -7          | 53 | 48 |
| 20 eta Lyrae 4.43          | 7298 | 19              | 14 | 35.4 | 39          | 11 | 21 |
|                            |      |                 |    |      |             |    |    |
| 60 tau Draconis 4.45       | 7352 | 19              | 15 | 03.8 | 73          | 24 | 00 |
| 21 theta Lyrae 4.35        | 7314 | 19              | 17 | 13.0 | 38          | 10 | 43 |
| 1 kappa Cygni 3.8          | 7328 | 19              | 17 | 40.0 | 53          | 24 | 51 |
| 25 omega^1 Aquilae 5.28    | 7315 | 19              | 18 | 57.9 | 11          | 38 | 29 |
| 43 Sagittarii 4.88         | 7304 | 19              | 19 | 03.8 | -18         | 54 | 26 |
|                            |      |                 |    |      |             |    |    |
| 44 rho^1 Sagittarii 3.92   | 7340 | 19              | 23 | 05.4 | -17         | 47 | 56 |
| 46 upsilon Sagittarii 4.52 | 7342 | 19              | 23 | 07.6 | -15         | 54 | 26 |
| Arkab Prior 3.96           | 7337 | 19              | 24 | 23.5 | -44         | 24 | 38 |
| Arkab Posterior 4.27       | 7343 | 19              | 24 | 58.9 | -44         | 45 | 04 |
| Rukbat 3.96                | 7348 | 19              | 25 | 34.6 | -40         | 34 | 03 |
|                            |      |                 |    |      |             |    |    |
| 31 Aquilae 5.17            | 7373 | 19              | 26 | 08.1 | 11          | 59 | 55 |
| 30 delta Aquilae 3.36      | 7377 | 19              | 26 | 43.8 | 3           | 09 | 56 |
| 6 alpha Vulpeculae 4.44    | 7405 | 19              | 29 | 43.4 | 24          | 42 | 57 |
| 10 iota^2 Cygni 3.76       | 7420 | 19              | 30 | 19.3 | 51          | 46 | 58 |
| Albireo 3.05               | 7417 | 19              | 31 | 42.5 | 28          | 00 | 45 |
|                            |      |                 |    |      |             |    |    |
| 36 Aquilae 5.03            | 7414 | 19              | 31 | 56.6 | -2          | 44 | 10 |
| 61 sigma Draconis 4.67     | 7462 | 19              | 32 | 18.3 | 69          | 42 | 10 |
| 8 Cygni 4.74               | 7426 | 19              | 32 | 40.9 | 34          | 30 | 23 |
| 38 mu Aquilae 4.45         | 7429 | 19              | 35 | 17.1 | 7           | 25 | 58 |

|                          |      |    |    |      |     |    |    |
|--------------------------|------|----|----|------|-----|----|----|
| iota Telescopii 4.88     | 7424 | 19 | 37 | 01.5 | -48 | 02 | 38 |
| 13 theta Cygni 4.49      | 7469 | 19 | 37 | 05.8 | 50  | 16 | 44 |
| 41 iota Aquilae 4.36     | 7447 | 19 | 37 | 59.2 | -1  | 13 | 51 |
| 52 Sagittarii 4.59       | 7440 | 19 | 38 | 11.7 | -24 | 49 | 39 |
| 39 kappa Aquilae 4.93    | 7446 | 19 | 38 | 12.3 | -6  | 58 | 16 |
| Sham 4.39                | 7479 | 19 | 41 | 11.4 | 18  | 04 | 18 |
| BSC7495 5.06             | 7495 | 19 | 41 | 35.4 | 45  | 35 | 02 |
| 54 Sagittarii 5.3        | 7476 | 19 | 42 | 07.4 | -16 | 14 | 06 |
| 6 beta Sagittae 4.39     | 7488 | 19 | 42 | 08.9 | 17  | 32 | 03 |
| 16 Cygni 5.99            | 7503 | 19 | 42 | 28.0 | 50  | 34 | 58 |
| 16 Cygni 6.25            | 7504 | 19 | 42 | 31.0 | 50  | 34 | 31 |
| 55 Sagittarii 5.06       | 7489 | 19 | 43 | 54.9 | -16 | 03 | 52 |
| 10 Vulpeculae 5.5        | 7506 | 19 | 44 | 44.0 | 25  | 49 | 55 |
| 15 Cygni 4.89            | 7517 | 19 | 45 | 09.6 | 37  | 24 | 53 |
| 18 delta Cygni 2.86      | 7528 | 19 | 45 | 44.3 | 45  | 11 | 30 |
| Tarazed 2.72             | 7525 | 19 | 47 | 25.3 | 10  | 40 | 28 |
| 56 Sagittarii 4.87       | 7515 | 19 | 47 | 47.3 | -19 | 42 | 01 |
| 63 epsilon Draconis 3.84 | 7582 | 19 | 48 | 04.6 | 70  | 19 | 49 |
| 7 delta Sagittae 3.68    | 7536 | 19 | 48 | 28.6 | 18  | 35 | 47 |
| nu Telescopii 5.33       | 7510 | 19 | 50 | 00.4 | -56 | 18 | 05 |
| chi Cygni 7.91           | 7564 | 19 | 51 | 30.3 | 32  | 58 | 38 |

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| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| Altair 0.76               | 7557 | 19              | 51 | 58.5 | 8           | 56 | 05 |
| 51 Aquilae 5.38           | 7553 | 19              | 52 | 07.5 | -10         | 41 | 58 |
| BSC7589 5.6               | 7589 | 19              | 52 | 43.2 | 47          | 05 | 30 |
| 9 Sagittae 6.24           | 7574 | 19              | 53 | 27.2 | 18          | 44 | 11 |
| v3961 Sagittarii 5.32     | 7552 | 19              | 53 | 29.9 | -39         | 48 | 36 |
| 55 eta Aquilae 3.87       | 7570 | 19              | 53 | 43.1 | 1           | 04 | 13 |
| v1291 Aquilae 5.63        | 7575 | 19              | 54 | 35.5 | -3          | 02 | 57 |
| Alshain 3.71              | 7602 | 19              | 56 | 30.9 | 6           | 28 | 11 |
| iota Sagittarii 4.12      | 7581 | 19              | 56 | 56.6 | -41         | 48 | 06 |
| 21 eta Cygni 3.89         | 7615 | 19              | 57 | 13.4 | 35          | 08 | 59 |
| 61 Sagittarii 5.01        | 7614 | 19              | 59 | 20.2 | -15         | 25 | 29 |
| 12 gamma Sagittae 3.51    | 7635 | 19              | 59 | 50.7 | 19          | 33 | 36 |
| theta^1 Sagittarii 4.37   | 7623 | 20              | 01 | 19.4 | -35         | 12 | 28 |
| 15 NT Vulpeculae 4.66     | 7653 | 20              | 02 | 06.5 | 27          | 49 | 21 |
| epsilon Pavonis 3.97      | 7590 | 20              | 03 | 22.8 | -72         | 50 | 32 |
| 62v3872 Sgr 4.43          | 7650 | 20              | 04 | 09.4 | -27         | 38 | 23 |
| 1 kappa Cephei 4.38       | 7750 | 20              | 08 | 01.0 | 77          | 47 | 03 |
| xi Telescopii 4.93        | 7673 | 20              | 09 | 15.0 | -52         | 48 | 30 |
| 28v1624 Cyg 4.93          | 7708 | 20              | 10 | 20.2 | 36          | 54 | 47 |
| delta Pavonis 3.55        | 7665 | 20              | 11 | 06.2 | -66         | 07 | 00 |
| 65 theta Aquilae 3.24     | 7710 | 20              | 12 | 33.9 | -0          | 44 | 51 |
| 33 Cygni 4.28             | 7740 | 20              | 13 | 57.8 | 56          | 38 | 36 |
| 31 o^1 Cygni 3.8          | 7735 | 20              | 14 | 24.1 | 46          | 48 | 59 |

|                          |      |    |    |      |     |    |    |
|--------------------------|------|----|----|------|-----|----|----|
| 67 rho Aquilae 4.94      | 7724 | 20 | 15 | 24.6 | 15  | 16 | 25 |
| 32 o^2 Cygni 3.96        | 7751 | 20 | 16 | 13.6 | 47  | 47 | 25 |
| 24 Vulpeculae 5.3        | 7753 | 20 | 17 | 49.9 | 24  | 44 | 53 |
| 34 P Cygni 4.77          | 7763 | 20 | 18 | 41.3 | 38  | 06 | 37 |
| 5 alpha^1 Capricorni 4.3 | 7747 | 20 | 19 | 00.1 | -12 | 25 | 50 |
| Algedi 3.58              | 7754 | 20 | 19 | 24.5 | -12 | 28 | 03 |
| Dabih 3.05               | 7776 | 20 | 22 | 23.0 | -14 | 42 | 08 |
| Sadr 2.23                | 7796 | 20 | 23 | 06.4 | 40  | 20 | 10 |
| BSC7794 5.3              | 7794 | 20 | 24 | 23.4 | 5   | 25 | 23 |
| 39 Cygni 4.43            | 7806 | 20 | 24 | 50.3 | 32  | 16 | 14 |
| Peacock 1.94             | 7790 | 20 | 27 | 34.1 | -56 | 39 | 16 |
| 2 theta Cephei 4.21      | 7850 | 20 | 29 | 59.1 | 63  | 04 | 37 |
| 41 Cygni 4.01            | 7834 | 20 | 30 | 23.7 | 30  | 27 | 05 |
| 69 Aquilae 4.91          | 7831 | 20 | 30 | 55.7 | -2  | 48 | 08 |
| 73 AF Draconis 5.18      | 7879 | 20 | 31 | 09.3 | 75  | 02 | 18 |
| 2 epsilon Delphini 4.03  | 7852 | 20 | 34 | 22.9 | 11  | 23 | 17 |
| Rotanev 3.64             | 7882 | 20 | 38 | 41.7 | 14  | 40 | 53 |
| alpha Indi 3.11          | 7869 | 20 | 39 | 16.6 | -47 | 12 | 15 |
| 71 Aquilae 4.31          | 7884 | 20 | 39 | 35.9 | -1  | 01 | 05 |
| 29 Vulpeculae 4.81       | 7891 | 20 | 39 | 36.9 | 21  | 17 | 18 |
| 7 kappa Delphini 5.07    | 7896 | 20 | 40 | 19.1 | 10  | 10 | 27 |
| Sualocin 3.77            | 7906 | 20 | 40 | 46.4 | 16  | 00 | 00 |

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| Designation and Magnitude  | BSC# | Right Ascension |    |      | Declination |    |    |
|----------------------------|------|-----------------|----|------|-------------|----|----|
|                            |      | h               | m  | s    | deg         | m  | s  |
| 15 upsilon Capricorni 5.15 | 7900 | 20              | 41 | 26.3 | -18         | 03 | 04 |
| 49 Cygni 5.53              | 7921 | 20              | 42 | 01.9 | 32          | 23 | 44 |
| Deneb 1.25                 | 7924 | 20              | 42 | 16.0 | 45          | 22 | 08 |
| 11 delta Delphini 4.43     | 7928 | 20              | 44 | 36.1 | 15          | 09 | 50 |
| 3 eta Cephei 3.41          | 7957 | 20              | 45 | 46.9 | 61          | 56 | 04 |
| eta Indi 4.51              | 7920 | 20              | 45 | 49.3 | -51         | 49 | 53 |
| BSC7955 4.52               | 7955 | 20              | 45 | 57.4 | 57          | 40 | 06 |
| 52 Cygni 4.22              | 7942 | 20              | 46 | 40.4 | 30          | 48 | 37 |
| beta Pavonis 3.42          | 7913 | 20              | 47 | 08.0 | -66         | 06 | 46 |
| 53 epsilon Cygni 2.48      | 7949 | 20              | 47 | 12.0 | 34          | 03 | 47 |
| 16 psi Capricorni 4.13     | 7936 | 20              | 47 | 32.4 | -25         | 10 | 53 |
| 12 gamma^2 Delphini 4.27   | 7948 | 20              | 47 | 47.6 | 16          | 12 | 50 |
| 54 lambda Cygni 4.53       | 7963 | 20              | 48 | 21.7 | 36          | 34 | 54 |
| Albali 3.78                | 7950 | 20              | 48 | 59.8 | -9          | 24 | 16 |
| 3 EN Aquarii 4.43          | 7951 | 20              | 49 | 01.6 | -4          | 56 | 11 |
| 55v1661 Cyg 4.81           | 7977 | 20              | 49 | 46.2 | 46          | 12 | 21 |
| iota Microscopii 5.11      | 7943 | 20              | 50 | 08.1 | -43         | 53 | 50 |
| 18 omega Capricorni 4.12   | 7980 | 20              | 53 | 16.6 | -26         | 49 | 34 |
| 6 mu Aquarii 4.73          | 7990 | 20              | 53 | 58.3 | -8          | 53 | 23 |
| 32 Vulpeculae 5.03         | 8008 | 20              | 55 | 36.3 | 28          | 09 | 08 |
| beta Indi 3.67             | 7986 | 20              | 56 | 42.2 | -58         | 21 | 34 |
| BSC8023 5.96               | 8023 | 20              | 57 | 26.6 | 45          | 01 | 12 |

|                          |      |    |    |      |     |    |    |
|--------------------------|------|----|----|------|-----|----|----|
| 58 nu Cygni 3.94         | 8028 | 20 | 58 | 05.2 | 41  | 15 | 45 |
| 33 Vulpeculae 5.3        | 8032 | 20 | 59 | 22.0 | 22  | 25 | 19 |
| 59v832 Cyg 4.74          | 8047 | 21 | 00 | 39.5 | 47  | 37 | 03 |
| 20 AO Capricorni 6.26    | 8033 | 21 | 00 | 59.4 | -18 | 56 | 20 |
| gamma Microscopii 4.67   | 8039 | 21 | 02 | 47.2 | -32 | 09 | 38 |
| zeta Microscopii 5.32    | 8048 | 21 | 04 | 31.2 | -38 | 32 | 03 |
| 62 xi Cygni 3.72         | 8079 | 21 | 05 | 49.3 | 44  | 01 | 35 |
| 23 theta Capricorni 4.08 | 8075 | 21 | 07 | 19.2 | -17 | 08 | 03 |
| alpha Octantis 5.13      | 8021 | 21 | 07 | 35.7 | -76 | 55 | 39 |
| 61v1803 Cyg 5.2          | 8085 | 21 | 07 | 59.6 | 38  | 52 | 21 |
| 61 Cygni 6.05            | 8086 | 21 | 08 | 01.1 | 38  | 51 | 45 |
| 24 Capricorni 4.49       | 8080 | 21 | 08 | 33.3 | -24 | 54 | 23 |
| 13 nu Aquarii 4.5        | 8093 | 21 | 10 | 55.4 | -11 | 16 | 16 |
| 5 gamma Equulei 4.7      | 8097 | 21 | 11 | 31.9 | 10  | 13 | 53 |
| 64 zeta Cygni 3.21       | 8115 | 21 | 13 | 58.7 | 30  | 19 | 43 |
| BSC8110 5.41             | 8110 | 21 | 14 | 44.0 | -27 | 31 | 04 |
| o Pavonis 5.06           | 8092 | 21 | 15 | 35.6 | -70 | 01 | 26 |
| 7 delta Equulei 4.47     | 8123 | 21 | 15 | 40.3 | 10  | 06 | 27 |
| 65 tau Cygni 3.74        | 8130 | 21 | 15 | 46.2 | 38  | 09 | 03 |
| Kitalpha 3.92            | 8131 | 21 | 17 | 02.8 | 5   | 21 | 02 |
| 67 sigma Cygni 4.22      | 8143 | 21 | 18 | 22.6 | 39  | 29 | 53 |
| 66 epsilon Cygni 4.41    | 8146 | 21 | 18 | 55.5 | 35  | 00 | 03 |
| Alderamin 2.45           | 8162 | 21 | 19 | 09.6 | 62  | 41 | 24 |

Coordinates for Bright Stars at JD2460493.625 = 2024 July 2.125 Page 30

| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| epsilon Microscopii 4.71  | 8135 | 21              | 19 | 24.9 | -32         | 04 | 07 |
| theta Indi 4.39           | 8140 | 21              | 21 | 35.7 | -53         | 20 | 43 |
| theta^1 Microscopii 4.8   | 8151 | 21              | 22 | 19.1 | -40         | 42 | 15 |
| 1 Pegasi 4.08             | 8173 | 21              | 23 | 13.2 | 19          | 54 | 38 |
| 32 iota Capricorni 4.28   | 8167 | 21              | 23 | 36.3 | -16         | 43 | 44 |
| 18 Aquarii 5.48           | 8187 | 21              | 25 | 31.5 | -12         | 46 | 18 |
| 69 Cygni 5.93             | 8209 | 21              | 26 | 47.1 | 36          | 46 | 27 |
| 34 zeta Capricorni 3.77   | 8204 | 21              | 28 | 03.6 | -22         | 18 | 14 |
| gamma Pavonis 4.21        | 8181 | 21              | 28 | 26.1 | -65         | 15 | 12 |
| sigma Octantis 5.45       | 7228 | 21              | 28 | 32.7 | -88         | 51 | 09 |
| Alfirk 3.23               | 8238 | 21              | 28 | 57.9 | 70          | 40 | 07 |
| 36 Capricorni 4.5         | 8213 | 21              | 30 | 06.8 | -21         | 41 | 58 |
| 71 Cygni 5.22             | 8228 | 21              | 30 | 21.2 | 46          | 38 | 58 |
| 2 Pegasi 4.52             | 8225 | 21              | 31 | 03.4 | 23          | 44 | 50 |
| Sadalsuud 2.9             | 8232 | 21              | 32 | 50.7 | -5          | 27 | 44 |
| 73 rho Cygni 3.98         | 8252 | 21              | 34 | 54.1 | 45          | 42 | 03 |
| 74 Cygni 5.04             | 8266 | 21              | 37 | 56.0 | 40          | 31 | 28 |
| 9v337 Cep 4.76            | 8279 | 21              | 38 | 34.5 | 62          | 11 | 35 |
| 5 Pegasi 5.46             | 8267 | 21              | 38 | 54.2 | 19          | 25 | 47 |
| 23 xi Aquarii 4.68        | 8264 | 21              | 39 | 03.1 | -7          | 44 | 36 |
| 75 Cygni 5.09             | 8284 | 21              | 41 | 08.9 | 43          | 23 | 09 |

|                             |      |    |    |      |     |    |    |
|-----------------------------|------|----|----|------|-----|----|----|
| Nashira 3.69                | 8278 | 21 | 41 | 26.6 | -16 | 33 | 01 |
| 11 Cephei 4.55              | 8317 | 21 | 42 | 16.2 | 71  | 25 | 28 |
| nu Octantis 3.73            | 8254 | 21 | 44 | 06.5 | -77 | 16 | 45 |
| mu Cephei 4.23              | 8316 | 21 | 44 | 15.4 | 58  | 53 | 35 |
| Enif 2.38                   | 8308 | 21 | 45 | 23.3 | 9   | 59 | 18 |
| 9 Pegasi 4.34               | 8313 | 21 | 45 | 40.2 | 17  | 27 | 48 |
| 10 kappa Pegasi 4.14        | 8315 | 21 | 45 | 45.3 | 25  | 45 | 31 |
| 10 nu Cephei 4.25           | 8334 | 21 | 46 | 09.3 | 61  | 14 | 04 |
| 9 iota Piscis Austrini 4.35 | 8305 | 21 | 46 | 23.8 | -32 | 54 | 46 |
| 81 pi^2 Cygni 4.23          | 8335 | 21 | 47 | 41.9 | 49  | 25 | 26 |
| Deneb Algedi 2.85           | 8322 | 21 | 48 | 23.3 | -16 | 00 | 54 |
| 14 Pegasi 5.07              | 8343 | 21 | 50 | 55.7 | 30  | 17 | 22 |
| o Indi 5.52                 | 8333 | 21 | 52 | 49.0 | -69 | 30 | 50 |
| 16 Pegasi 5.09              | 8356 | 21 | 54 | 10.7 | 26  | 02 | 29 |
| 51 mu Capricorni 5.08       | 8351 | 21 | 54 | 37.7 | -13 | 26 | 07 |
| gamma Gruis 3               | 8353 | 21 | 55 | 24.2 | -37 | 14 | 54 |
| 13 Cephei 5.74              | 8371 | 21 | 55 | 42.6 | 56  | 43 | 41 |
| delta Indi 4.4              | 8368 | 21 | 59 | 34.0 | -54 | 52 | 29 |
| Kurhah 4.26                 | 8417 | 22 | 04 | 30.1 | 64  | 44 | 53 |
| epsilon Indi 4.69           | 8387 | 22 | 05 | 12.8 | -56 | 41 | 02 |
| 20 Cephei 5.27              | 8426 | 22 | 05 | 45.2 | 62  | 54 | 21 |
| 19 Cephei 5.07              | 8428 | 22 | 05 | 54.1 | 62  | 23 | 58 |
| Sadalmelik 2.95             | 8414 | 22 | 07 | 02.4 | -0  | 12 | 00 |
| lambda Gruis 4.47           | 8411 | 22 | 07 | 34.8 | -39 | 25 | 27 |

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| Designation and Magnitude      | BSC# | Right Ascension |    |      | Declination |    |    |
|--------------------------------|------|-----------------|----|------|-------------|----|----|
|                                |      | h               | m  | s    | deg         | m  | s  |
| 33 iota Aquarii 4.29           | 8418 | 22              | 07 | 45.3 | -13         | 44 | 59 |
| 24 iota Pegasi 3.77            | 8430 | 22              | 08 | 09.1 | 25          | 27 | 57 |
| Alnair 1.73                    | 8425 | 22              | 09 | 45.8 | -46         | 50 | 28 |
| 14 mu Piscis Austrini 4.5      | 8431 | 22              | 09 | 48.3 | -32         | 52 | 04 |
| 24 Cephei 4.79                 | 8468 | 22              | 10 | 16.2 | 72          | 27 | 44 |
| BSC8546 5.27                   | 8546 | 22              | 10 | 45.1 | 86          | 13 | 47 |
| 29 pi Pegasi 4.28              | 8454 | 22              | 11 | 04.6 | 33          | 17 | 57 |
| Biham 3.52                     | 8450 | 22              | 11 | 26.0 | 6           | 19 | 09 |
| 21 zeta Cephei 3.39            | 8465 | 22              | 11 | 42.3 | 58          | 19 | 21 |
| 22 lambda Cephei 5.05          | 8469 | 22              | 12 | 20.5 | 59          | 32 | 09 |
| BSC8485 4.5                    | 8485 | 22              | 14 | 55.9 | 39          | 50 | 14 |
| 16 lambda Piscis Austrini 5.45 | 8478 | 22              | 15 | 41.6 | -27         | 38 | 40 |
| 23 epsilon Cephei 4.18         | 8494 | 22              | 15 | 56.6 | 57          | 09 | 59 |
| 1 Lacertae 4.14                | 8498 | 22              | 17 | 02.3 | 37          | 52 | 17 |
| Ancha 4.17                     | 8499 | 22              | 18 | 07.4 | -7          | 39 | 38 |
| alpha Tucanae 2.87             | 8502 | 22              | 20 | 09.4 | -60         | 08 | 11 |
| epsilon Octantis 5.09          | 8481 | 22              | 22 | 38.1 | -80         | 18 | 58 |
| 31 IN Pegasi 4.82              | 8520 | 22              | 22 | 43.3 | 12          | 19 | 45 |
| Sadachbia 3.86                 | 8518 | 22              | 22 | 55.2 | -1          | 15 | 48 |
| 47 Aquarii 5.12                | 8516 | 22              | 22 | 56.1 | -21         | 28 | 29 |

|                                 |      |    |    |      |     |    |    |
|---------------------------------|------|----|----|------|-----|----|----|
| 3 beta Lacertae 4.42            | 8538 | 22 | 24 | 31.6 | 52  | 21 | 09 |
| 52 pi Aquarii 4.8               | 8539 | 22 | 26 | 31.6 | 1   | 30 | 09 |
| delta Tucanae 4.51              | 8540 | 22 | 29 | 02.7 | -64 | 50 | 26 |
| 29 rho^2 Cephei 5.45            | 8591 | 22 | 30 | 04.5 | 78  | 57 | 01 |
| nu Gruis 5.47                   | 8552 | 22 | 30 | 04.7 | -39 | 00 | 25 |
| 27 delta Cephei 4.07            | 8571 | 22 | 30 | 05.0 | 58  | 32 | 28 |
| 55 zeta^2 Aquarii 3.65          | 8559 | 22 | 30 | 05.3 | 0   | 06 | 22 |
| 5 Lacertae 4.34                 | 8572 | 22 | 30 | 33.3 | 47  | 49 | 58 |
| delta^1 Gruis 3.97              | 8556 | 22 | 30 | 43.3 | -43 | 22 | 11 |
| delta^2 Gruis 4.12              | 8560 | 22 | 31 | 12.5 | -43 | 37 | 22 |
| 6 Lacertae 4.52                 | 8579 | 22 | 31 | 32.9 | 43  | 14 | 58 |
| 57 sigma Aquarii 4.82           | 8573 | 22 | 31 | 56.4 | -10 | 33 | 07 |
| 7 alpha Lacertae 3.76           | 8585 | 22 | 32 | 18.3 | 50  | 24 | 33 |
| 17 beta Piscis Austrini 4.29    | 8576 | 22 | 32 | 53.5 | -32 | 13 | 10 |
| 59 upsilon Aquarii 5.21         | 8592 | 22 | 36 | 01.7 | -20 | 34 | 56 |
| 31 Cephei 5.08                  | 8615 | 22 | 36 | 22.3 | 73  | 46 | 15 |
| 62 eta Aquarii 4.04             | 8597 | 22 | 36 | 36.8 | 0   | 00 | 34 |
| Situla 5.04                     | 8610 | 22 | 39 | 01.3 | -4  | 06 | 04 |
| 30 Cephei 5.19                  | 8627 | 22 | 39 | 31.5 | 63  | 42 | 45 |
| 10 Lacertae 4.89                | 8622 | 22 | 40 | 21.8 | 39  | 10 | 42 |
| BSC8626 6.03                    | 8626 | 22 | 40 | 40.9 | 37  | 43 | 16 |
| 11 Lacertae 4.5                 | 8632 | 22 | 41 | 35.4 | 44  | 24 | 17 |
| 18 epsilon Piscis Austrini 4.18 | 8628 | 22 | 42 | 00.2 | -26 | 54 | 55 |
| Homam 3.41                      | 8634 | 22 | 42 | 41.0 | 10  | 57 | 35 |
| beta Gruis 2.07                 | 8636 | 22 | 44 | 07.0 | -46 | 45 | 20 |

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| Designation and Magnitude     | BSC# | Right Ascension |    |      | Declination |    |    |
|-------------------------------|------|-----------------|----|------|-------------|----|----|
|                               |      | h               | m  | s    | deg         | m  | s  |
| Matar 2.93                    | 8650 | 22              | 44 | 09.1 | 30          | 20 | 59 |
| 13 Lacertae 5.11              | 8656 | 22              | 45 | 11.2 | 41          | 56 | 54 |
| 47 lambda Pegasi 3.97         | 8667 | 22              | 47 | 42.8 | 23          | 41 | 42 |
| 46 xi Pegasi 4.2              | 8665 | 22              | 47 | 55.0 | 12          | 17 | 56 |
| beta Octantis 4.13            | 8630 | 22              | 48 | 25.0 | -81         | 15 | 08 |
| 68 Aquarii 5.24               | 8670 | 22              | 48 | 51.8 | -19         | 29 | 06 |
| epsilon Gruis 3.49            | 8675 | 22              | 50 | 01.2 | -51         | 11 | 15 |
| 32 iota Cephei 3.5            | 8694 | 22              | 50 | 33.4 | 66          | 19 | 47 |
| 71 tau Aquarii 4.05           | 8679 | 22              | 50 | 53.1 | -13         | 27 | 47 |
| Sadalbari 3.51                | 8684 | 22              | 51 | 11.2 | 24          | 43 | 54 |
| BSC8685 5.43                  | 8685 | 22              | 52 | 25.2 | -39         | 01 | 35 |
| 22 gamma Piscis Austrini 4.46 | 8695 | 22              | 53 | 52.8 | -32         | 44 | 42 |
| 73 lambda Aquarii 3.73        | 8698 | 22              | 53 | 53.3 | -7          | 26 | 55 |
| BSC8748 4.7                   | 8748 | 22              | 54 | 07.3 | 84          | 28 | 37 |
| Skat 3.27                     | 8709 | 22              | 55 | 56.7 | -15         | 41 | 23 |
| 23 delta Piscis Austrini 4.2  | 8720 | 22              | 57 | 17.8 | -32         | 24 | 30 |
| BSC8726 4.99                  | 8726 | 22              | 57 | 30.7 | 49          | 51 | 53 |
| Fomalhaut 1.17                | 8728 | 22              | 58 | 59.8 | -29         | 29 | 31 |
| BSC8732 6.15                  | 8732 | 22              | 59 | 56.3 | -35         | 23 | 33 |
| v509 Cassiopeiae 5.1          | 8752 | 23              | 01 | 07.4 | 57          | 04 | 38 |

|                         |      |    |    |      |     |    |    |
|-------------------------|------|----|----|------|-----|----|----|
| zeta Gruis 4.11         | 8747 | 23 | 02 | 18.7 | -52 | 37 | 19 |
| 1 o Andromedae 3.62     | 8762 | 23 | 03 | 03.1 | 42  | 27 | 29 |
| pi Piscis Austrini 5.12 | 8767 | 23 | 04 | 50.7 | -34 | 37 | 00 |
| Scheat 2.44             | 8775 | 23 | 04 | 57.8 | 28  | 12 | 57 |
| 4 beta Piscium 4.48     | 8773 | 23 | 05 | 07.3 | 3   | 57 | 09 |
| Markab 2.49             | 8781 | 23 | 05 | 58.8 | 15  | 20 | 15 |
| 86 Aquarii 4.48         | 8789 | 23 | 07 | 59.4 | -23 | 36 | 37 |
| 55 Pegasi 4.54          | 8795 | 23 | 08 | 14.2 | 9   | 32 | 32 |
| theta Gruis 4.28        | 8787 | 23 | 08 | 14.9 | -43 | 23 | 16 |
| 33 pi Cephei 4.41       | 8819 | 23 | 08 | 40.8 | 75  | 31 | 13 |
| 88 Aquarii 3.68         | 8812 | 23 | 10 | 44.8 | -21 | 02 | 20 |
| iota Gruis 3.88         | 8820 | 23 | 11 | 44.0 | -45 | 06 | 49 |
| 59 Pegasi 5.15          | 8826 | 23 | 12 | 58.4 | 8   | 51 | 13 |
| 90 phi Aquarii 4.22     | 8834 | 23 | 15 | 35.3 | -5  | 54 | 59 |
| 91 psi^1 Aquarii 4.24   | 8841 | 23 | 17 | 10.3 | -8  | 57 | 14 |
| 6 gamma Piscium 3.7     | 8852 | 23 | 18 | 26.1 | 3   | 24 | 59 |
| gamma Tucanae 3.99      | 8848 | 23 | 18 | 50.4 | -58 | 06 | 04 |
| 93 psi^2 Aquarii 4.41   | 8858 | 23 | 19 | 10.4 | -9  | 02 | 55 |
| gamma Sculptoris 4.41   | 8863 | 23 | 20 | 08.3 | -32 | 23 | 54 |
| 95 psi^3 Aquarii 4.99   | 8865 | 23 | 20 | 14.0 | -9  | 28 | 36 |
| 62 tau Pegasi 4.58      | 8880 | 23 | 21 | 51.1 | 23  | 52 | 28 |
| 98 Aquarii 3.96         | 8892 | 23 | 24 | 15.2 | -19 | 58 | 00 |
| 4 Cassiopeiae 4.96      | 8904 | 23 | 25 | 56.2 | 62  | 25 | 03 |
| 68 upsilon Pegasi 4.42  | 8905 | 23 | 26 | 36.2 | 23  | 32 | 21 |
| 99 Aquarii 4.38         | 8906 | 23 | 27 | 19.8 | -20 | 30 | 28 |

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| Designation and Magnitude | BSC# | Right Ascension |    |      | Declination |    |    |
|---------------------------|------|-----------------|----|------|-------------|----|----|
|                           |      | h               | m  | s    | deg         | m  | s  |
| 8 kappa Piscium 4.95      | 8911 | 23              | 28 | 11.2 | 1           | 23 | 23 |
| 10 theta Piscium 4.27     | 8916 | 23              | 29 | 12.5 | 6           | 30 | 50 |
| 70 Pegasi 4.54            | 8923 | 23              | 30 | 23.6 | 12          | 53 | 45 |
| BSC8924 6.26              | 8924 | 23              | 30 | 47.9 | -4          | 23 | 57 |
| tau Octantis 5.5          | 8862 | 23              | 30 | 55.8 | -87         | 20 | 49 |
| beta Sculptoris 4.38      | 8937 | 23              | 34 | 16.6 | -37         | 40 | 57 |
| BSC8952 5.86              | 8952 | 23              | 36 | 03.7 | 71          | 46 | 39 |
| iota Phoenicis 4.69       | 8949 | 23              | 36 | 23.0 | -42         | 28 | 45 |
| 16 lambda Andromedae 3.81 | 8961 | 23              | 38 | 46.1 | 46          | 35 | 28 |
| BSC8959 4.74              | 8959 | 23              | 39 | 09.5 | -45         | 21 | 24 |
| 17 iota Andromedae 4.29   | 8965 | 23              | 39 | 20.7 | 43          | 24 | 14 |
| Errai 3.21                | 8974 | 23              | 40 | 22.6 | 77          | 46 | 08 |
| 17 iota Piscium 4.13      | 8969 | 23              | 41 | 12.6 | 5           | 45 | 33 |
| 19 kappa Andromedae 4.15  | 8976 | 23              | 41 | 37.2 | 44          | 28 | 11 |
| mu Sculptoris 5.3         | 8975 | 23              | 41 | 54.9 | -31         | 56 | 16 |
| 18 lambda Piscium 4.49    | 8984 | 23              | 43 | 17.8 | 1           | 54 | 54 |
| 105 omega^2 Aquarii 4.49  | 8988 | 23              | 43 | 59.3 | -14         | 24 | 33 |
| 106 Aquarii 5.24          | 8998 | 23              | 45 | 28.0 | -18         | 08 | 27 |
| 20 psi Andromedae 4.97    | 9003 | 23              | 47 | 15.2 | 46          | 33 | 23 |

|                        |      |    |    |      |     |    |    |
|------------------------|------|----|----|------|-----|----|----|
| BSC9013 5.05           | 9013 | 23 | 49 | 06.0 | 67  | 56 | 35 |
| 20 Piscium 5.49        | 9012 | 23 | 49 | 12.0 | -2  | 37 | 31 |
| delta Sculptoris 4.59  | 9016 | 23 | 50 | 11.8 | -27 | 59 | 42 |
| 81 phi Pegasi 5.06     | 9036 | 23 | 53 | 44.1 | 19  | 15 | 23 |
| 82 HT Pegasi 5.3       | 9039 | 23 | 53 | 52.1 | 11  | 05 | 01 |
| 7 rho Cassiopeiae 4.51 | 9045 | 23 | 55 | 37.1 | 57  | 38 | 08 |
| 84 psi Pegasi 4.63     | 9064 | 23 | 59 | 00.6 | 25  | 16 | 39 |
| 27 Piscium 4.88        | 9067 | 23 | 59 | 55.5 | -3  | 25 | 12 |