# Jonckheere Double Star Photometry – Part XII: Mon I

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Abstract: If any double star discoverer is in urgent need of photometry then it is Jonckheere. There are over 3000 Jonckheere objects listed in the WDS catalog and a good part of them with magnitudes obviously far too bright. This report covers about half of the Jonckheere objects in the constellation Monoceros. At least one image per object was taken with V-filter to allow for visual magnitude measurement by differential photometry. All objects were additionally checked for common proper motion and about 10 qualify indeed as potential physical pairs.

## Introduction

As follow up to the reports on J-objects photometry beginning with Knapp/Nanson 2016 we selected this time the J-objects in Monoceros. The number of J-objects in Mon is quite large and weather conditions did not allow for taking images for all objects so we decided to split this constellation into two separate reports with about 170 doubles covered in this paper including a few additional non Jonckheere objects by chance included in the images taken. Some objects were too close to be resolved with the equipment available to us but we kept these objects in the lists as we thought also the combined magnitude of interest.

## Results of photometry and catalog checking

With a few exceptions for all selected J-objects one single image was taken with iTelescope iT27 with V-filter and 3s exposure time – iT27 was the telescope of choice because the constellation Mon is rather low in the northern sky and iT27 is located in Australia. The technical specifications of iT27 are even better than those of iT24 (our working horse telescope) but the image quality is overall not up to the expectations and plate solving was due to unexpected changes in image rotation and orientation from image to image a bit difficult so in hindsight this decision was despite the higher altitude of our targets not the best. While for these reasons the astrometry results have to be taken with caution beyond the given error range the effects seem less significant for the with V-filter measured magnitudes as a magnitude error of ~0.1 or even a bit larger seems negligible in comparison with those for the Jonckheere objects, which often have given magnitude errors in the range of up to 2 or more magnitudes. With the availability of precise GAIA positions for most of the listed components the value of astrometry results from processing of CCD images taken with traditional earth-bound telescopes seems anyway a bit questionable.

Several objects were too faint to be resolved with a 3s exposure time – additional images with longer exposure time were taken for these and stacked with AAVSO VPhot. The images were then plate solved with Astrometrica using the URAT1 catalog with reference stars in the Vmag range of 8.5 to 14.5 giving not only RA/Dec coordinates but also photometry results for all reference stars used including an average dVmag error. The J-objects were then located in the center of the image and astrometry/photometry was then done by the rather comfortable Astrometrica procedure with point and click at the components delivering RA/Dec coordinates and Vmag measurements based on all ref-

erence stars used for plate solving.

The measurement results are given in table 1 below with the following structure:

- First row gives the WDS data:
  - Name gives number and components of the J-object
  - RA/Dec gives the position in the HH:MM:SS/ DD:MM:SS format for the primary
  - Sep, PA, M1, M1, pmRA and pmDec give the WDS catalog data for this object
  - Date gives the year of the last observation
  - Source/Notes gives additional references to the WDS catalog
- Data rows give data from other checked catalogs like especially GAIA DR1:
  - RA/Dec gives the position in degrees for the primary
  - Sep gives the calculated separation in arcseconds if coordinates for both components are available
  - PA gives the calculated position angle in degrees if coordinates for both components are available
  - M1 and M2 if visual magnitudes are given in the used catalog or estimated visual magnitudes according to Knapp and Nanson 2018
  - Proper motion data if available in the used catalogs or in some cases calculated from position comparison between catalog positions
  - Ap and Me give aperture and used observation method
  - CPM Rat gives the common proper motion rating based on the available PM data according to the description in Appendix A
  - CPM % gives an estimated probability for being a physical pair (see Appendix A)
  - Source/Notes refers to the used catalogs with additional comments if necessary
- Measurement row gives the results from processing of own images:
  - RA/Dec gives the position in degrees for the primary
  - Sep gives the calculated separation in arcseconds for resolved pairs
  - PA gives the calculated position angle in degrees for resolved pairs
  - M1 and M1 give Vmags for both components measured by differential photometry
  - Date gives the Julian observation epoch
  - Notes indicate the telescope used, number of images with exposure time and additional comments if considered necessary.

## Summary

A good part of the listed J-objects in Mon show the expected significant magnitude difference compared with the WDS catalog data. Further about 10 of these objects qualify as solid or at least good CPM candidates based on a rating scheme using UCAC5 proper motion data if for both components available with the caveat of rather small proper motion values for some of them. For objects with G/J/H/K-magnitude values available we calculated also estimated visual magnitudes according to Knapp and Nanson 2018 to compare these estimated values with the results of the differential photometry as kind of proof of concept for this formula and found a very consistent pattern confirming the high quality of the calculated estimated Vmags.

## Acknowledgements

The following tools and resources have been used for this research:

2MASS catalog
2MASS images
AAVSO VPhot
Aladin Sky Atlas v9.0
Astrometrica v4.10.0.427
AstroPlanner v2.2
iTelescope

iT24: 610mm CDK with 3962mm focal length. Resolution 0.625 arcsec/pixel. V-filter. No transformation coefficients available. Located in Auberry, California. Elevation 1405m

iT27: 700mm CDK with 4531mm focal length. CCD: FLI PL09000. Resolution 0.53 arcsec/pixel. V-filter. Siding Spring, Australia. Elevation 1122m

GAIA DR1 catalog
MaxIm DL6 v6.08
POSS images
SIMBAD
UCAC4 catalog
UCAC5 catalog
URAT1 catalog
VizieR
Washington Double Star Catalog

## References

Knapp, Wilfried R. A.; Nanson, John, 2016, "Jonckheere Double Star Photometry – Part I: Cyg", *Journal of Double Star Observations*, **12** (2), 68-179.

*(Text continues on page 640)*

*Table 1. Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 21 AB | 07 02 18.811 | +10 30 47.9 | 3.2 | 277 | 10.59 | 11.20 | 73 | -13 | | | | | | | 2016 | | | WDS 07023+1030, WDS data as of August 2017. |
| | 105.578377 | 10.513308 | 3.242 | 274.905 | 10.64 | 11.09 | 1.10 | -3.30 | 1.56 | -4.00 | -2.80 | 3.11 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimate from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.578372 | 10.513321 | 3.170 | 274.887 | | | | | | | | | 0.20 | Eu | 2000.888 | | | UCAC5. |
| | 105.578271 | 10.513347 | 3.237 | 276.741 | 10.68 | 11.08 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 40 AB | 06 41 49.391 | -00 15 59.1 | 3.1 | 102 | 11.27 | 11.90 | -47 | 9 | | | | | | | 2000 | | | WDS 06418-0016, WDS data as of August 2017. |
| | 100.455764 | -0.266428 | 3.154 | 102.377 | 10.97 | 11.82 | -0.50 | -0.90 | 1.56 | -0.30 | -1.00 | 1.70 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 100.455766 | -0.266424 | 3.151 | 102.369 | | | | | | | | | 0.20 | Eu | 200.100 | | | UCAC5. |
| | 100.455825 | -0.266406 | 2.909 | 108.435 | 11.08 | 11.73 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Touching star disks |
| J 55 AB | 06 49 36.610 | +01 59 54.2 | 2.2 | 166 | 10.85 | 11.16 | -5 | -1 | | | | | | | 1995 | | | WDS 06496+0200, WDS data as of August 2017. |
| | 102.402499 | 1.998374 | | | 11.14 | | -9.56 | -0.86 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 102.402361 | 1.999066 | | | | | -8.00 | 0.30 | 4.38 | | | | 0.20 | Eu | 200.122 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | | | | | | | | | | | | | 0.70 | C | | | | iT Vmag Data |
| | 102.402350 | 1.999014 | 2.486 | 167.816 | 10.71 | 10.71 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s. Touching star disks |
| J 56 AB | 06 52 37.649 | +03 14 17.8 | 1.5 | 334 | 9.39 | 9.72 | -3 | -2 | | -3 | -2 | | | | 2015 | | | WDS 06526+0314, WDS data as of August 2017. |
| | 103.156890 | 3.238159 | 1.546 | 332.907 | 9.67 | 9.59 | 16.05 | -40.64 | 5.61 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag. PM data from position comparison with 2MASS. Secondary not identified in 2MASS or URAT1. |
| | | | | | | | | | | | | | 0.20 | Eu | | | | UCAC5. Neither component identified in UCAC5. |
| | 103.156763 | 3.238394 | | | 8.91 | | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Overlapping star disks. A and B too bright for resolution |
| J 60 AB | 07 13 14.080 | -02 38 35.8 | 1.3 | 38 | 9.44 | 9.47 | -5 | 4 | | -5 | 4 | | | | 1991 | | | WDS 07132-0239, WDS data as of August 2017. |
| | 108.308469 | -2.643527 | 1.288 | 34.144 | 8.93 | 9.47 | -12.42 | 4.38 | 6.17 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 and M2 are GAIA DR1 Gmag. PM data from position comparison with 2MASS. Secondary not identified in 2MASS. URAT1 Gmag is questionable relative to GAIA DR1 Gmag, so didn't use it. |
| | | | | | | | | | | | | | 0.20 | Eu | | | | UCAC5. Neither component identified in UCAC5. |
| | 108.308542 | -2.643483 | | | 8.76 | | | | | | | | 0.70 | C | 2016.107 | | | iT27 1x3s. Heavily overlapping star disks. Both components too bright for resolution |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 65 AB | 07 44 12.580 | -01 15 13.0 | 2.1 | 210 | 9.86 | 10.72 | 3 | -7 | | 3 | -7 | | | | 1995 | | | WDS 07442-0115, WDS data as of August 2017. |
| | 116.052465 | -1.253493 | 2.069 | 211.068 | 10.16 | 10.61 | 5.20 | 7.26 | 5.26 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag. PM data from position comparison with 2MASS. Secondary not identified in 2MASS or URAT1. |
| | 116.052436 | -1.253520 | | | | | 7.00 | 6.50 | 1.84 | | | | 0.20 | Eu | 2000.118 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 116.052458 | -1.253531 | | | 9.77 | | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Heavily overlapping star disks. Both components too bright for clear resolution |
| J 66 AB | 07 47 40.890 | -00 54 23.3 | 3.9 | 196 | 10.54 | 11.58 | 0 | 5 | | -2 | -1 | | | | 2000 | | | WDS 07477-0056, WDS data as of August 2017. |
| | 116.920319 | -0.906510 | 3.872 | 196.226 | 10.30 | 11.54 | -5.00 | -0.80 | 1.56 | -4.90 | -1.40 | 3.25 | 0.96 | Hg | 2015.000 | CACB | **16** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 116.920340 | -0.906507 | 3.864 | 196.285 | | | | | | | | | 0.20 | Eu | 2000.128 | | | UCAC5. |
| | 116.920338 | -0.906517 | 3.856 | 195.801 | 10.44 | 11.55 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | GAIA DR1 lists a parallax of 1.5 (2174.421 LY) for the primary and 1.45 (2249.401 LY) for the secondary, which would indicate the two stars are too far apart for any physical relation to exist. (Parallax errors are listed as 0.62 and 0.33, respectively). |
| J 187 AB | 06 06 38.740 | -04 11 37.8 | 29.5 | 145 | 5.38 | 11.60 | -8 | -5 | | 6 | -21 | | | | 2010 | | | WDS 06066-0412, WDS data as of August 2017. |
| | 91.661375 | -4.193836 | 29.507 | 145.305 | 5.52 | 11.49 | -9.28 | -3.69 | 5.58 | 1.37 | -14.37 | 5.58 | 0.20 | Eu | 2014.035 | CCCC | **6** | URAT1. M1 and M2 are visual estimates from URAT1 J- and K-Bands. PM data from position comparison with 2MASS. |
| | | | | | | 11.60 | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M2 is visual estimate from G-J-K-H mags. Primary not identified by GAIA DR1. |
| | | | | | | | | | | 3.50 | -16.80 | 1.41 | 0.20 | Eu | 2000.036 | | | UCAC5. Primary not identified by UCAC5, PM data for secondary from UCAC5 catalog. |
| | 91.661296 | -4.193733 | 29.908 | 145.339 | | 11.64 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Primary star disc saturated |
| J 189 AB | 07 45 34.360 | -05 58 30.0 | 1.5 | 240 | 10.15 | 10.20 | 4 | 12 | | | | | | | 1983 | | | WDS 07456-0559, WDS data as of August 2017. |
| | 116.393177 | -5.974959 | | | 10.38 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 116.393143 | -5.975019 | | | | | 8.20 | 14.40 | 1.70 | | | | 0.20 | Eu | 2000.087 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 116.393092 | -5.975000 | | | 10.18 | | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. No resolution of B |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified in URAT1 or 2MASS. |
| J 265 AB | 06 35 46.310 | +05 07 23.3 | 4.2 | 242 | 11.18 | 11.70 | 61 | 32 | | | | | | | 2010 | | | WDS 06358+0508, WDS data as of August 2017. |
| | 98.943006 | 5.123096 | 4.077 | 243.343 | 11.25 | 11.93 | 1.30 | -2.90 | 1.70 | -4.30 | 8.30 | 1.70 | 0.96 | Hg | 2015.000 | BCCB | **25** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 98.943000 | 5.123108 | 4.081 | 240.736 | | | | | | | | | 0.20 | Eu | 2000.155 | | | UCAC5. |
| | 98.943008 | 5.123078 | 4.089 | 244.971 | 11.23 | 11.96 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 266 AB | 06 36 41.070 | +03 18 56.8 | 4.5 | 176 | 9.65 | 12.00 | 1 | 9 | | 1 | -8 | | | | 2000 | | | WDS 06367+0319, WDS data as of August 2017. |
| | 99.171143 | 3.315769 | | | 9.71 | | 1.03 | -4.46 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 99.171138 | 3.315788 | | | | | 1.20 | -4.60 | 1.70 | | | | 0.20 | Eu | 2000.138 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 99.171125 | 3.315758 | 4.438 | 174.773 | 9.57 | 11.30 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified in URAT1; both components are identified in 2MASS. |
| J 314 AB | 06 47 07.320 | -03 51 30.4 | 3.7 | 48 | 11.40 | 13.40 | 1 | -1 | | | | | | | 2000 | | | WDS 06472-0351, WDS data as of August 2017. |
| | 101.780506 | -3.858482 | 3.743 | 47.988 | 11.32 | 13.45 | 0.20 | -1.70 | 1.63 | 0.30 | -0.60 | 2.05 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 101.780506 | -3.858475 | 3.730 | 48.163 | | | | | | | | | 0.20 | Eu | 2000.079 | | | UCAC5. |
| | 101.780500 | -3.858492 | 3.584 | 47.307 | 11.45 | 13.35 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 348 AB | 06 29 49.170 | +11 07 49.8 | 3.7 | 144 | 12.67 | 12.89 | -6 | 13 | | 6 | -14 | | | | 2003 | | | WDS 06299+1110, WDS data as of August 2017. |
| | 97.454715 | 11.130877 | 3.849 | 141.644 | 12.59 | 12.80 | -7.10 | 10.20 | 1.70 | -6.90 | 10.20 | 1.70 | 0.96 | Hg | 2015.000 | AACB | **78** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 97.454744 | 11.130837 | 3.846 | 141.689 | | | | | | | | | 0.20 | Eu | 2000.890 | | | UCAC5. |
| | 97.454750 | 11.130867 | 3.617 | 141.491 | 12.53 | 12.74 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Good CPM candidate with qualifier that UCAC5 error rates are somewhat high given the minimal proper motion of the components. |
| J 349 AB | 06 32 59.371 | +04 56 22.4 | 5.5 | 100 | 9.63 | 11.60 | -4 | 4 | | 5 | 1 | | | | 2014 | | | WDS 06330+0457, WDS data as of August 2017. |
| | 98.247395 | 4.939586 | 5.461 | 100.317 | 9.60 | 12.07 | -2.10 | 1.40 | 1.98 | -3.80 | -2.30 | 4.17 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. Error rates high relative to minimal motion. |
| | 98.247404 | 4.939580 | 5.476 | 99.704 | | | | | | | | | 0.20 | Eu | 2000.147 | | | UCAC5. |
| | 98.247408 | 4.939594 | 5.463 | 100.868 | 9.60 | 12.17 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 350 AB | 06 35 41.829 | +00 29 31.1 | 3.7 | 103 | 9.50 | 9.50 | -21 | 11 | | | | | | | 2002 | | | WDS 06357+0029, WDS data as of August 2017. |
| | 98.923851 | 0.492130 | 3.681 | 105.656 | 12.42 | 12.62 | 0.90 | 5.50 | 1.41 | 1.40 | 3.90 | 1.41 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimate from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 98.923847 | 0.492108 | 3.666 | 105.339 | | | | | | | | | 0.20 | Eu | 2000.100 | | | UCAC5. |
| | 98.923913 | 0.492203 | 3.395 | 108.195 | 12.38 | 12.59 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 351 AB | 06 37 58.389 | +11 33 19.1 | 3.6 | 208 | 10.81 | 12.70 | -4 | -4 | | | | | | | 2000 | | | WDS 06380+1135, WDS data as of August 2017. |
| | 99.493287 | 11.555327 | 3.587 | 208.326 | 10.60 | 12.96 | -5.80 | -7.30 | 1.70 | -5.90 | -4.80 | 4.68 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 99.493310 | 11.555355 | 3.618 | 208.035 | | | | | | | | | 0.20 | Eu | 2000.911 | | | UCAC5. |
| | 99.493313 | 11.555333 | 3.681 | 209.936 | 10.67 | 12.79 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 352 AB | 06 38 39.990 | -08 15 37.8 | 4.7 | 93 | 10.22 | 12.70 | -7 | -2 | | | | | | | 2010 | | | WDS 06386-0815, WDS data as of August 2017. |
| | 99.666653 | -8.260511 | 4.588 | 94.360 | 10.08 | 12.46 | -3.10 | 1.00 | 1.56 | -4.30 | 1.50 | 2.05 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. Error rates high relative to minimal motion. |
| | 99.666666 | -8.260515 | 4.607 | 94.446 | | | | | | | | | 0.20 | Eu | 2000.017 | | | UCAC5. |
| | 99.666675 | -8.260533 | 4.459 | 92.828 | 10.35 | 12.56 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 354 AB | 06 53 51.779 | +01 43 28.2 | 6.0 | 264 | 9.50 | 10.50 | -2 | -2 | | -44 | -13 | | | | 2014 | | | WDS 06539+0144, WDS data as of August 2017. |
| | 103.465759 | 1.724496 | 5.924 | 262.875 | 11.65 | 13.09 | -3.80 | -4.40 | 1.41 | 0.60 | -1.20 | 1.56 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimate from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.465774 | 1.724514 | 5.995 | 262.505 | | | | | | | | | 0.20 | Eu | 2000.125 | | | UCAC5. |
| | 103.465788 | 1.724461 | 5.944 | 263.625 | 11.73 | 13.15 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 360 AB | 07 05 11.330 | +00 54 01.5 | 3.8 | 30 | 11.78 | 12.73 | -5 | -10 | | -7 | 50 | | | | 2000 | | | WDS 07052+0054, WDS data as of August 2017. |
| | 106.297071 | 0.900133 | 3.845 | 29.714 | 12.05 | 12.47 | -2.50 | -0.80 | 1.70 | -3.10 | 0.10 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimate from G-J-K-H mags. PM data from UCAC5 catalog |
| | 106.297081 | 0.900136 | 3.836 | 29.925 | | | | | | | | | 0.20 | Eu | 2000.117 | | | UCAC5. |
| | 106.297063 | 0.900192 | 3.670 | 29.635 | 12.22 | 12.55 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 363 AB | 07 16 02.840 | -06 36 52.1 | 2.8 | 292 | 10.60 | 12.80 | 3 | 1 | | | | | | | 2000 | | | WDS 07161-0637, WDS data as of August 2017. |
| | 109.011837 | -6.614480 | | | 10.61 | | -2.30 | 0.74 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 109.011840 | -6.614484 | | | | | -0.80 | 1.00 | 1.70 | | | | 0.20 | Eu | 2000.067 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 109.011833 | -6.614486 | | | 10.65 | | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Hint of elongation but no resolution of B |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 364 AB | 07 16 09.540 | -06 34 38.8 | 5.3 | 340 | 9.40 | 13.00 | 3 | -18 | | -22 | 25 | | | | 2000 | | | WDS 07162-0634, WDS data as of August 2017. |
| | 109.039701 | -6.577413 | 5.272 | 339.779 | 11.19 | 13.67 | -4.50 | 0.30 | 1.84 | -5.50 | -0.50 | 3.96 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimate from G-J-K-H mags. PM data from UCAC5 catalog. Error rates high relative to minimal motion. |
| | 109.039719 | -6.577414 | 5.278 | 339.989 | | | | | | | | | 0.20 | Eu | 2000.069 | | | UCAC5. |
| | 109.039708 | -6.577444 | 5.156 | 339.529 | 11.08 | 13.62 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 365 AB | 07 17 17.130 | -06 35 27.0 | 3.2 | 262 | 12.57 | 14.80 | 27 | 5 | | | | | | | 2000 | | | WDS 07173-0635, WDS data as of August 2017. |
| | 109.321354 | -6.590867 | 3.053 | 264.716 | 12.84 | 14.33 | -8.40 | -6.90 | 1.77 | 2.40 | 2.20 | 9.14 | 0.96 | Hg | 2015.000 | BCCB | **25** | GAIA DR1. M1 is visual estimate from UCAC5 G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog. Error rate of secondary unusually high. |
| | 109.321389 | -6.590838 | 3.228 | 262.573 | | | | | | | | | 0.20 | Eu | 2000.069 | | | UCAC5. No J-K-H mags in UCAC5 for the secondary. |
| | 109.321358 | -6.590919 | 2.072 | 271.106 | 12.84 | 14.93 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Touching star disks, B barely resolved. SNR B<10 |
| J 417 AB | 07 40 11.870 | -08 56 18.8 | 1.9 | 356 | 11.01 | 13.00 | -4 | -5 | | | | | | | 1911 | | | WDS 07402-0857, WDS data as of August 2017. Only one observation (1911) in WDS, but not coded X. |
| | 115.049468 | -8.938581 | | | 10.79 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 115.049478 | -8.938564 | | | | | -2.30 | -4.20 | 1.56 | | | | 0.20 | Eu | 2000.063 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 115.049458 | -8.938561 | | | 10.88 | | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Slightest hint of elongtion but no resolution of B |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 595 AB | 06 26 24.319 | +11 27 47.5 | 4.8 | 42 | 10.81 | 10.80 | -3 | 12 | | 0 | 16 | | | | 2016 | | | WDS 06264+1128, WDS data as of August 2017. |
| | 96.601338 | 11.463268 | 4.807 | 42.206 | 10.72 | 10.95 | -5.10 | 9.00 | 1.41 | -4.10 | 8.00 | 2.55 | 0.96 | Hg | 2015.000 | ACCB | **31** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 96.601358 | 11.463233 | 4.808 | 41.972 | | | | | | | | | 0.20 | Eu | 2000.890 | | | UCAC5. |
| | 96.601329 | 11.463242 | 4.879 | 41.750 | 10.76 | 10.97 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: GAIA DR1 shows a parallax of 4.04 (807.334 LY) for the primary; no parallax for the secondary, B, is shown. |
| J 595 AC | 06 26 24.319 | +11 27 47.5 | 43.7 | 245 | 10.81 | 10.96 | -3 | 12 | | 2 | -1 | | | | 2016 | | | WDS 06264+1128, WDS data as of August 2017. |
| | 96.601338 | 11.463268 | 43.970 | 244.721 | 10.70 | 10.76 | -5.10 | 9.00 | 1.41 | 3.30 | -5.60 | 1.41 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimate from G-J-K-H mags. PM data from UCAC5 catalog |
| | 96.601358 | 11.463233 | 43.990 | 245.031 | | | | | | | | | 0.20 | Eu | 2000.890 | | | UCAC5. |
| | 96.601329 | 11.463242 | 43.783 | 244.673 | 10.76 | 10.88 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: GAIA DR1 shows a parallax of 4.04 (807.334 LY) for the primary and a parallax of 0.34 (9593 LY) for the secondary, C, which indicates the absence of any physical relation between the two stars (parallax errors are 0.25 and 0.84, respectively). |
| J 596 AB | 06 41 03.801 | +02 14 21.4 | 5.0 | 48 | 10.60 | 11.00 | 6 | -2 | | 40 | 26 | | | | 2010 | | | WDS 06410+0215, WDS data as of August 2017. |
| | 100.265846 | 2.239279 | 4.898 | 47.053 | 10.68 | 11.14 | -2.20 | -2.50 | 1.56 | 1.30 | -1.80 | 3.25 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 100.265855 | 2.239289 | 4.853 | 46.721 | | | | | | | | | 0.20 | Eu | 2000.118 | | | UCAC5. |
| | 100.265871 | 2.239272 | 4.804 | 46.116 | 10.79 | 11.18 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 597 AB | 06 41 21.619 | +02 06 05.8 | 5.3 | 52 | 10.27 | 10.90 | 0 | 1 | | 1 | -6 | | | | 2010 | | | WDS 06414+0206, WDS data as of August 2017. |
| | 100.340116 | 2.101614 | 5.167 | 52.582 | 10.25 | 10.87 | -0.50 | 1.70 | 1.56 | -0.80 | -4.60 | 3.25 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 100.340118 | 2.101607 | 5.229 | 51.811 | | | | | | | | | 0.20 | Eu | 2000.118 | | | UCAC5. |
| | 100.340142 | 2.101589 | 5.062 | 53.089 | 10.42 | 10.93 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 659 AB | 06 28 40.529 | +04 52 47.3 | 1.9 | 240 | 10.51 | 12.30 | 4 | -3 | | | | | | | 1992 | | | WDS06287+0452, WDS data as of August 2017. |
| | 97.168910 | 4.879846 | | | 10.53 | | -4.06 | -3.72 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from UCAC5 catalog. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 97.168924 | 4.879850 | | | | | -3.30 | -0.90 | 1.56 | | | | 0.20 | Eu | 2000.138 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 97.168929 | 4.879828 | 1.882 | 243.828 | 10.49 | 11.15 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching/overlapping star disks |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 660 AB | 06 28 40.801 | +04 50 11.9 | 2.5 | 99 | 10.29 | 10.40 | -19 | -15 | | 0 | -17 | | | | 2008 | | | WDS 06287+0448, WDS data as of August 2017. |
| | 97.169701 | 4.836627 | 2.633 | 97.351 | 10.07 | 10.25 | 0.20 | -12.80 | 1.70 | 2.70 | -12.50 | 2.26 | 0.96 | Hg | 2015.000 | CACB | **16** | GAIA DR1. M1 and M2 are GAIA DR1 Gmags (primary not identified in 2MASS and URAT1, URAT1 Gmag for secondary different from GAIA DR1). PM data from UCAC5 catalog |
| | 97.169700 | 4.836680 | 2.597 | 97.542 | | | | | | | | | 0.20 | Eu | 2000.136 | | | UCAC5. No J-K-H mags in UCAC5 for the primary. |
| | 97.169700 | 4.836681 | 2.589 | 99.113 | 10.19 | 10.27 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 690 AB | 06 30 47.051 | +10 03 46.6 | 1.7 | 359 | 9.38 | 10.82 | -6 | -16 | | -6 | -16 | | | | 2015 | | | WDS06308+1004, WDS data as of August 2017. |
| | 97.696055 | 10.062879 | | | 9.32 | | -2.49 | -5.03 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from UCAC5 catalog. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 97.696055 | 10.062943 | | | | | 0.10 | -16.50 | 2.26 | | | | 0.20 | Eu | 2000.879 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 97.696117 | 10.062922 | | | 9.27 | | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Hint of elongation but no resolution of B |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 691 AB | 06 30 52.431 | +04 38 59.7 | 1.3 | 205 | 9.40 | 10.37 | -1 | -5 | | -1 | -5 | | | | 2008 | | | WDS 06309+0439, WDS data as of August 2017. |
| | 97.718477 | 4.649950 | | | 9.46 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from UCAC5 catalog. Secondary not identified in GAIA DR1. |
| | 97.718469 | 4.649894 | | | | | 1.80 | 13.60 | 2.69 | | | | 0.20 | Eu | 2000.144 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 97.718425 | 4.649944 | | | 9.25 | | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Hint of elongation but no resolution of B |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 697 AB | 06 43 33.811 | +11 09 04.6 | 2.0 | 182 | 9.15 | 10.53 | -2 | 1 | | -2 | 1 | | | | 2015 | | | WDS 06436+1109, WDS data as of August 2017. |
| | 100.890860 | 11.151347 | | | 9.21 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from UCAC5 catalog. Secondary not identified in GAIA DR1. |
| | 100.890869 | 11.151312 | | | | | -2.30 | 9.00 | 2.83 | | | | 0.20 | Eu | 2000.895 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 100.890825 | 11.151358 | 2.001 | 181.686 | 9.04 | 9.96 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 700 AB | 06 54 44.440 | +10 14 47.4 | 1.7 | 103 | 9.50 | 9.50 | | | | 18 | -3 | | | | 2011 | | | WDS 06547+1014, WDS data as of August 2017. |
| | 103.685103 | 10.246579 | 3.031 | 106.884 | 12.00 | 12.06 | -4.60 | 5.00 | 1.56 | -4.40 | 3.20 | 1.63 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog. Error rate of secondary unusually high. |
| | 103.685122 | 10.246559 | 3.020 | 106.444 | | | | | | | | | 0.20 | Eu | 2000.883 | | | UCAC5. |
| | 103.685096 | 10.246558 | 2.841 | 104.890 | 11.89 | 12.21 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 723 AB | 06 45 03.419 | +09 58 31.0 | 2.3 | 74 | 11.20 | 13.00 | -3 | -6 | | | | | | | 2000 | | | WDS 06450+0958, WDS data as of August 2017. |
| | 101.264239 | 9.975243 | 2.331 | 73.604 | 11.98 | 12.18 | 2.20 | -6.80 | 1.84 | 10.30 | -6.50 | 3.11 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 101.264230 | 9.975270 | 2.221 | 72.897 | | | | | | | | | 0.20 | Eu | 2000.880 | | | UCAC5. No J-K-H mags in UCAC5 for the secondary. |
| | 101.264196 | 9.975294 | 2.192 | 76.010 | 11.64 | 11.96 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |
| J 726 AB | 06 46 51.920 | +10 10 00.2 | 2.3 | 128 | 9.50 | 9.50 | -2 | -14 | | | | | | | 2008 | | | WDS 06468+1008, WDS data as of August 2017. |
| | 101.716349 | 10.166654 | | | 12.26 | | -10.26 | -6.71 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 101.716388 | 10.166685 | | | | | -9.80 | -8.10 | 1.70 | | | | 0.20 | Eu | 2000.882 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 101.715800 | 10.167081 | 2.641 | 131.494 | 12.22 | 11.93 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 730 AB | 07 18 20.250 | -02 35 28.6 | 2.9 | 144 | 9.50 | 9.80 | -16 | -21 | | | | | | | 2000 | | | WDS 07183-0236, WDS data as of August 2017. |
| | 109.584505 | -2.591624 | 3.080 | 147.406 | 11.58 | 11.87 | 10.30 | -56.80 | 1.70 | 10.20 | -59.30 | 1.70 | 0.96 | Hg | 2015.000 | ABAA | **80** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 109.584463 | -2.591389 | 3.049 | 147.010 | | | | | | | | | 0.20 | Eu | 2000.099 | | | UCAC5. No J-K-H mags in UCAC5 for the secondary. |
| | 109.584571 | -2.591597 | 2.751 | 154.855 | 11.27 | 11.83 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Touching star disks |
| | | | | | | | | | | | | | | | | | | Note: Good CPM candidate. GAIA DR1 shows a parallax of 5.7 (572.216 LY) for the primary, but none listed for the secondary. |
| J 733 AB | 08 05 33.421 | -03 46 10.1 | 2.7 | 147 | 11.10 | 11.30 | 9 | -12 | | | | | | | 2005 | | | WDS 08055-0346, WDS data as of August 2017. |
| | 121.389360 | -3.769616 | | | 11.01 | | 16.13 | -24.08 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 121.389312 | -3.769530 | | | | | 11.50 | -20.70 | 1.84 | | | | 0.20 | Eu | 2000.110 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 121.389329 | -3.769639 | 2.115 | 149.369 | 10.81 | 11.78 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching/overlapping star disks. SNR B <20 |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 741 AB | 06 22 52.531 | -08 12 34.2 | 3.6 | 91 | 10.90 | 12.60 | -15 | -1 | | | | | | | 2000 | | | WDS 06228-0809, WDS data as of August 2017. |
| | 95.718834 | -8.209484 | 3.511 | 91.257 | 10.95 | 13.69 | -1.60 | 0.50 | 1.56 | -1.10 | -0.70 | 2.05 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog. |
| | 95.718841 | -8.209486 | 3.504 | 90.960 | | | | | | | | | 0.20 | Eu | 1999.998 | | | UCAC5. |
| | 95.718879 | -8.209503 | 3.355 | 90.512 | 10.95 | 12.77 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s. Touching star disks |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 802 AB | 06 46 43.570 | -04 13 36.5 | 4.3 | 132 | 10.85 | 12.40 | -2 | 23 | | | | | | | 2010 | | | WDS 06468-0414, WDS data as of August 2017. |
| | 101.681569 | -4.226796 | 4.119 | 132.637 | 10.90 | 11.90 | | | | | | | 1.30 | E2 | 1998.757 | | | 2MASS. M1 and M2 are visual estimates from 2MASS J- and K-bands. |
| | 101.681592 | -4.226736 | 4.247 | 135.630 | 11.11 | 11.47 | 5.32 | 14.00 | 5.54 | 1.39 | -2.05 | 5.55 | 0.20 | Eu | 2014.068 | CCCB | **6** | URAT1. M1 and M2 are visual estimates from URAT1 G-J-K-H mags. Note the URAT1 Vmags for the two components are identical, 10.431. PM data from comparison with 2MASS positions. |
| | 101.681583 | -4.226736 | 4.326 | 135.967 | 10.89 | 11.98 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Neither of the two components are identified in GAIA DR1 and UCAC5. |
| J 979 AB | 06 30 34.200 | +11 40 00.8 | 2.9 | 263 | 11.50 | 12.00 | 18 | -7 | | | | | | | 2000 | | | WDS 06306+1139, WDS data as of August 2017. |
| | 97.642538 | 11.666820 | 2.984 | 262.603 | 11.24 | 12.26 | 9.20 | -11.50 | 1.70 | 5.30 | -12.70 | 1.84 | 0.96 | Hg | 2015.000 | CBCB | **12** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 97.642501 | 11.666865 | 2.928 | 262.816 | | | | | | | | | 0.20 | Eu | 2000.896 | | | UCAC5. |
| | 97.642442 | 11.666833 | 2.639 | 265.217 | 11.23 | 12.15 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |
| J 982 AB | 06 32 22.470 | +03 29 08.1 | 3.1 | 216 | 10.10 | 10.60 | 23 | 9 | | 9 | -12 | | | | 2015 | | | WDS 06324+0329, WDS data as of August 2017. |
| | 98.093662 | 3.485544 | | | 10.33 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 98.093656 | 3.485586 | | | | | 1.60 | -10.30 | 1.56 | | | | 0.20 | Eu | 2000.137 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 98.093654 | 3.485544 | 3.345 | 215.587 | 10.07 | 10.75 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. Touching star disks |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. |
| J 984 AB | 06 36 31.330 | +05 19 53.8 | 4.8 | 305 | 11.82 | 11.82 | -5 | -9 | | -18 | 0 | | | | 2010 | | | WDS 06365+0521, WDS data as of August 2017. |
| | 99.130413 | 5.331365 | 4.941 | 306.226 | 11.30 | 11.52 | -1.80 | -4.40 | 1.70 | -1.60 | -4.10 | 1.70 | 0.96 | Hg | 2015.000 | ABCC | **61** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 99.130420 | 5.331383 | 4.940 | 306.159 | | | | | | | | | 0.20 | Eu | 2000.155 | | | UCAC5. |
| | 99.130408 | 5.331331 | 5.080 | 307.462 | 11.40 | 11.62 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Possible CPM candidate. However motion is minimal and error rates relative to motion are high. No parallax data for either component in GAIA DR1. |
| J 993 AB | 06 48 18.791 | +11 37 31.7 | 4.8 | 146 | 9.80 | 11.50 | -1 | -3 | | | | | | | 2000 | | | WDS 06482+1143, WDS data as of August 2017. |
| | 102.078301 | 11.625483 | 4.849 | 146.516 | 12.97 | 15.25 | -0.20 | -2.20 | 1.70 | -0.40 | -4.50 | 4.53 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 102.078302 | 11.625491 | 4.823 | 146.267 | | | | | | | | | 0.20 | Eu | 2000.896 | | | UCAC5. |
| | 102.078354 | 11.625494 | | | 12.98 | | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. No resolution of B. Has to be fainter than 14.5mag. Estimation from G/J/H/K-mags: 15.25Vmag |
| | | | | | | | | | | | | | | | | | | Note: High error rate relative to minimal motion. No parallax data available in GAIA DR1 for either component. |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 996 AB | 07 00 05.461 | +09 18 26.9 | 5.0 | 138 | 11.24 | 12.60 | -1 | -5 | | 2 | -12 | | | | 2000 | | | WDS 07001+0918, WDS data as of August 2017. |
| | 105.022760 | 9.307442 | 5.002 | 137.463 | 11.34 | 12.93 | -0.50 | -3.50 | 1.41 | -0.30 | -1.70 | 1.70 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimate from G-J-K_H mags. PM data from UCAC5 catalog |
| | 105.022762 | 9.307456 | 5.019 | 137.690 | | | | | | | | | 0.20 | Eu | 2000.874 | | | UCAC5. |
| | 105.022771 | 9.307444 | 5.058 | 138.365 | 11.14 | 12.97 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: High error rate relative to minimal motion. GAIA DR1 lists a parallax of 0.87 (3749 LY) for the primary, none for the secondary. |
| J 1005 AB | 06 34 00.420 | -04 44 09.5 | 2.7 | 282 | 9.60 | 10.80 | 7 | -9 | | | | | | | 2000 | | | WDS 06340-0445, WDS data as of August 2017. |
| | 98.501830 | -4.736034 | 2.858 | 284.553 | 11.91 | 13.04 | 2.90 | -10.20 | 1.70 | -2.90 | -0.70 | 2.76 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 98.501818 | -4.735992 | 2.742 | 282.127 | | | | | | | | | 0.20 | Eu | 2000.062 | | | UCAC5. |
| | 98.501900 | -4.736111 | 2.873 | 286.791 | 11.80 | 12.83 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Touching star disks |
| J 1006 AB | 06 34 18.270 | -04 43 40.4 | 3.4 | 291 | 9.30 | 9.70 | 7 | -2 | | | | | | | 2002 | | | WDS 06343-0444, WDS data as of August 2017. |
| | 98.576142 | -4.727899 | 3.382 | 291.856 | 11.33 | 11.97 | -2.10 | 1.40 | 1.63 | -2.70 | 2.10 | 1.77 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog. Error rate of secondary unusually high. |
| | 98.576150 | -4.727904 | 3.369 | 291.743 | | | | | | | | | 0.20 | Eu | 2000.061 | | | UCAC5. |
| | 98.576167 | -4.727917 | 2.879 | 287.172 | 11.28 | 11.89 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Touching star disks |
| J 1057 AB | 06 53 11.849 | -00 12 35.9 | 3.0 | 35 | 11.56 | 13.30 | -5 | -6 | | | | | | | 2014 | | | WDS 06532-0013, WDS data as of August 2017. |
| | 103.299380 | -0.209935 | 3.000 | 35.134 | 11.88 | 12.85 | -1.10 | -0.20 | 1.84 | 1.00 | 1.20 | 2.26 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 103.299384 | -0.209934 | 2.964 | 34.860 | | | | | | | | | 0.20 | Eu | 2000.111 | | | UCAC5. |
| | 103.299392 | -0.209894 | 2.258 | 36.717 | 12.00 | 12.24 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Touching star disks |
| J 1057 AC | 06 53 11.849 | -00 12 35.9 | 11.4 | 84 | 11.56 | 11.34 | -5 | -6 | | 1 | 0 | | | | 2014 | | | WDS 06532-0013, WDS data as of August 2017. |
| | 103.299380 | -0.209935 | 11.339 | 83.940 | 11.88 | 11.26 | -1.10 | -0.20 | 1.84 | -1.30 | 0.90 | 1.63 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.299384 | -0.209934 | 11.341 | 84.022 | | | | | | | | | 0.20 | Eu | 2000.110 | | | UCAC5. |
| | 103.299392 | -0.209894 | 11.318 | 86.353 | 12.00 | 11.32 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| BAL 732 AD | 06 53 11.849 | -00 12 35.9 | 23.4 | 53 | 11.56 | 13.4 | -5 | -6 | | 1 | -2 | | | | 2014 | | | WDS 06532-0013, WDS data as of August 2017. This is the AD pairing of J 1057. |
| | 103.299380 | -0.209935 | 23.173 | 52.723 | 11.88 | 13.36 | -1.10 | -0.20 | 1.84 | -2.20 | 0.60 | 1.77 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.299384 | -0.209934 | 23.178 | 52.770 | | | | | | | | | 0.20 | Eu | 2000.110 | | | UCAC5. |
| | 103.299392 | -0.209894 | 22.764 | 52.810 | 12.00 | 13.40 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. SNR D<20 |
| BAL 732 CE | 06 53 11.849 | -00 12 35.9 | 27.9 | 44 | 11.34 | 12.82 | 1 | 0 | | 2 | -1 | | | | 2014 | | | WDS 06532-0013, WDS data as of August 2017. This includes the E component of the J 1057 cluster. |
| | 103.302512 | -0.209603 | 27.559 | 43.610 | 11.71 | 12.57 | -1.30 | 0.90 | 1.63 | -1.20 | 0.20 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.302518 | -0.209606 | 27.565 | 43.593 | | | | | | | | | 0.20 | Eu | 2000.110 | | | UCAC5. |
| | 103.302529 | -0.209694 | 27.483 | 42.847 | 11.32 | 12.62 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1065 AB | 07 31 08.170 | -03 43 06.0 | 2.7 | 334 | 11.67 | 9.60 | 25 | -84 | | -36 | 31 | | | | 2005 | | | WDS 07312-0343, WDS data as of August 2017. |
| | 112.783906 | -3.718409 | 2.691 | 334.883 | 11.76 | 11.47 | -12.90 | -22.10 | 1.56 | -14.60 | -20.10 | 1.56 | 0.96 | Hg | 2015.000 | CABB | **18** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 112.783959 | -3.718317 | 2.654 | 335.094 | | | | | | | | | 0.20 | Eu | 2000.096 | | | UCAC5. |
| | 112.783917 | -3.718419 | 2.727 | 332.545 | 11.43 | 11.60 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Touching star disks |
| | | | | | | | | | | | | | | | | | | Note: Possible CPM candidate. However GAIA DR1 doesn't list a parallax for either component. |
| J 1065 AC | 07 31 08.170 | -03 43 06.0 | 8.0 | 155 | 11.67 | 15.00 | 25 | -84 | | | | | | | 2000 | | | WDS 07312-0343, WDS data as of August 2017. |
| | 112.783906 | -3.718409 | 5.098 | 150.932 | 11.76 | 12.41 | -12.90 | -22.10 | 1.56 | -4.80 | 2.60 | 5.59 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 112.783959 | -3.718317 | 5.369 | 153.967 | | | | | | | | | 0.20 | Eu | 2000.097 | | | UCAC5. |
| | 112.783746 | -3.718283 | | | 11.36 | | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. No resolution of C. Has to be fainter than 14.5mag |
| J 1106 AB | 06 44 28.581 | +10 05 37.0 | 1.4 | 249 | 10.50 | 10.95 | -13 | -16 | | -13 | -16 | | | | 1991 | | | WDS 06444+1005, WDS data as of August 2017. |
| | 101.119131 | 10.093629 | 1.464 | 249.066 | 10.27 | 10.42 | 23.36 | 4.48 | 5.59 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 and M2 are GAIA DR1 Gmags. PM data from position comparison with 2MASS. Secondary not identified in 2MASS (or URAT1). |
| | 101.119036 | 10.093617 | | | | | 23.80 | 3.00 | 1.84 | | | | 0.20 | Eu | 2000.885 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 101.118967 | 10.093556 | | | 9.99 | | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s. No resolution of B. Not even a hint of an elongation |
| | | | | | | | | | | | | | | | | | | Note: GAIA DR1 shows a Gmag for the primary of 10.273, URAT1 shows a Gmag of 10.531. The G-J-K-H formula results in a visual estimate of 10.702 using the GAIA DR1 Gmag value, and 11.090 using the URAT1 Gmag value. |
| J 1467 AB | 07 38 32.090 | -10 03 01.8 | 119.0 | 101 | 8.78 | 11.31 | 1 | -1 | | -8 | 6 | | | | 2000 | | | WDS 07385-1003, WDS data as of August 2017. |
| | 114.633724 | -10.050530 | 118.838 | 100.918 | 8.67 | 11.87 | -1.60 | -0.20 | 2.69 | -9.30 | 7.70 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 114.633730 | -10.050529 | 118.975 | 100.963 | | | | | | | | | 0.20 | Eu | 2000.056 | | | UCAC5. |
| | 114.633704 | -10.050542 | 119.009 | 100.908 | 8.78 | 11.63 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 1467 BC | 07 38 40.000 | -10 03 24.5 | 7.6 | 35 | 11.20 | 11.20 | -8 | 6 | | 16 | 2 | | | | 2000 | | | WDS07385-1003, WDS data as of August 2017. |
| | 114.666642 | -10.056782 | 7.564 | 36.693 | 11.87 | 12.64 | -9.30 | 7.70 | 1.70 | -3.40 | -2.30 | 1.70 | 0.96 | Hg | 2015.000 | BCCB | **25** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 114.666681 | -10.056814 | 7.632 | 35.491 | | | | | | | | | 0.20 | Eu | 2000.057 | | | UCAC5. |
| | 114.666671 | -10.056797 | 7.444 | 36.811 | 11.63 | 12.46 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1472 AB | 06 24 15.931 | -07 34 30.1 | 8.2 | 327 | 9.88 | 12.90 | 4 | -7 | | | | | | | 2000 | | | WDS 06250-0724, WDS data as of August 2017. |
| | 96.066338 | -7.575029 | 8.274 | 326.431 | 11.81 | 15.01 | -0.70 | -2.80 | 1.56 | -2.20 | -1.00 | 2.83 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 96.066341 | -7.575017 | 8.238 | 326.458 | | | | | | | | | 0.20 | Eu | 2000.009 | | | UCAC5. |
| | 96.066325 | -7.575103 | 8.508 | 327.432 | 11.69 | 15.13 | | | | | | | 0.61 | C | 2018.088 | | | iT24 5x3s |
| J 1474 AB | 06 33 35.681 | -08 10 28.8 | 6.8 | 330 | 8.89 | 11.10 | -1 | 3 | | | | | | | 2014 | | | WDS 06336-0810, WDS data as of August 2017. |
| | 98.398699 | -8.174681 | 6.742 | 330.036 | 9.08 | 10.64 | 0.38 | -2.25 | 5.64 | -0.33 | 0.20 | 5.64 | 0.20 | Eu | 2014.075 | CCCC | **6** | URAT1. M1 is URAT1 Vmag, M2 is visual estimate from URAT1 j- and K-bands (no Gmag for the secondary in URAT1). PM data from comparison with 2MASS positions. |
| | 98.398682 | -8.174679 | | | 8.84 | | -3.79 | 1.26 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. PM data from GAIA DR1 catalog. Secondary not identified in GAIA DR1. |
| | 98.398689 | -8.174679 | | | | | -1.90 | 0.10 | 2.69 | | | | 0.20 | Eu | 2000.009 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 98.398696 | -8.174683 | 6.795 | 330.263 | 8.93 | 10.84 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 1475 AB | 06 42 55.841 | -08 50 18.5 | 9.3 | 224 | 9.20 | 10.40 | 0 | -2 | | -8 | -5 | | | | 2014 | | | WDS 06429-0850, WDS data as of August 2017. |
| | 100.732638 | -8.838477 | 9.290 | 223.617 | 11.19 | 12.52 | -3.30 | -0.30 | 1.56 | -3.70 | 1.70 | 1.63 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 100.732652 | -8.838475 | 9.308 | 223.465 | | | | | | | | | 0.20 | Eu | 2000.011 | | | UCAC5. |
| | 100.732613 | -8.838486 | 9.489 | 223.172 | 11.03 | 12.60 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 1479 AB | 06 49 16.660 | -04 55 41.4 | 6.9 | 317 | 11.30 | 12.10 | 5 | -5 | | -8 | 6 | | | | 2000 | | | WDS 06491-0453, WDS data as of August 2017. |
| | 102.319413 | -4.928158 | 6.898 | 317.204 | 11.23 | 12.08 | -2.10 | -0.30 | 1.70 | -1.40 | 0.50 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 102.319421 | -4.928157 | 6.898 | 317.076 | | | | | | | | | 0.20 | Eu | 2000.073 | | | UCAC5. |
| | 102.319404 | -4.928150 | 7.006 | 316.953 | 11.57 | 12.36 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 1481 AB | 06 53 44.870 | -05 34 29.3 | 5.2 | 59 | 10.00 | 11.80 | -11 | -30 | | 5 | -7 | | | | 2000 | | | WDS 06539-0536, WDS data as of August 2017. |
| | 103.436934 | -5.574868 | 5.209 | 58.560 | 10.37 | 12.37 | 2.80 | -13.30 | 2.69 | 0.50 | -12.50 | 3.82 | 0.96 | Hg | 2015.000 | CBCB | **12** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.436922 | -5.574813 | 5.232 | 58.869 | | | | | | | | | 0.20 | Eu | 2000.066 | | | UCAC5. |
| | 103.436933 | -5.574864 | 5.179 | 59.864 | 10.17 | 11.90 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| HJ 2353 AC | 06 53 44.870 | -05 34 29.3 | 15.9 | 150 | 10.00 | 11.10 | -11 | -30 | | 10 | -4 | | | | 2000 | | | WDS 06539-0536, WDS data as of August 2017. This is the C component of J 1481. |
| | 103.436934 | -5.574868 | 15.827 | 149.946 | 10.37 | 11.70 | 2.80 | -13.30 | 2.69 | 5.30 | -6.50 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.436922 | -5.574813 | 15.896 | 150.248 | | | | | | | | | 0.20 | Eu | 2000.066 | | | UCAC5. |
| | 103.436933 | -5.574864 | 16.027 | 149.862 | 10.17 | 11.52 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 1482 AB | 06 53 31.970 | -09 58 48.8 | 8.4 | 351 | 10.59 | 10.73 | 9 | -19 | | 2 | -5 | | | | 2010 | | | WDS 06536-0957, WDS data as of August 2017. |
| | 103.383206 | -9.980253 | 8.394 | 350.756 | 10.98 | 11.24 | -1.20 | -6.50 | 1.56 | -1.40 | -5.30 | 1.56 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.383211 | -9.980226 | 8.376 | 350.753 | | | | | | | | | 0.20 | Eu | 2000.006 | | | UCAC5. |
| | 103.383213 | -9.980281 | 8.347 | 351.245 | 10.97 | 11.16 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Error rates high relative to minimal motion of components. No parallax for either component available in GAIA DR1. |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1483 AB | 06 59 46.650 | -08 42 39.0 | 4.0 | 330 | 10.59 | 11.60 | 0 | -13 | | | | | | | 1941 | | | WDS 06598-0841, WDS data as of August 2017. Only 1 Obs recorded in WDS, not coded X in WDS. |
| | 104.944402 | -8.710901 | | | 10.56 | | 1.34 | -11.45 | 1.92 | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 104.944401 | -8.710852 | | | | | 0.40 | -11.70 | 1.98 | | | | 0.20 | Eu | 2000.031 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 104.944433 | -8.710964 | | | 10.52 | | | | | | | | 0.61 | C | 2018.088 | | | iT24 5x10s. No resolution. B would have to be fainter than 15.5mag to get not resolved - bogus assumed |
| | | | | | | | | | | | | | | | | | | Note: Secondary not identified by URAT1 or 2MASS. No hint of elongation in the Aladin image. |
| J 1484 AB | 07 01 25.010 | -10 35 44.7 | 4.0 | 61 | 11.00 | 12.50 | -1 | -8 | | 31 | 7 | | | | 2000 | | | WDS 07014-1036, WDS data as of August 2017. |
| | 105.354215 | -10.595768 | 4.045 | 60.789 | 12.04 | 13.28 | 0.80 | -4.90 | 1.56 | 0.50 | -4.90 | 1.91 | 0.96 | Hg | 2015.000 | BACB | **62** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.354211 | -10.595748 | 4.050 | 60.832 | | | | | | | | | 0.20 | Eu | 2000.006 | | | UCAC5. |
| | 105.354254 | -10.595800 | 3.952 | 59.936 | 12.10 | 13.41 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| DAM 1197 AC | 07 01 25.010 | -10 35 44.7 | 9.0 | 39 | 11.00 | 14.30 | -1 | -8 | | | | | | | 2000 | | | WDS 07014-1036, WDS data as of August 2017. This is the C component of J 1484. |
| | 105.354215 | -10.595768 | 9.129 | 37.658 | 12.04 | 14.86 | 0.80 | -4.90 | 1.56 | -2.60 | 7.60 | 2.91 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.354211 | -10.595748 | 9.013 | 38.650 | | | | | | | | | 0.20 | Eu | 2000.007 | | | UCAC5. |
| | 105.354254 | -10.595800 | 9.017 | 38.057 | 12.10 | 14.63 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| DAM 1197 AD | 07 01 25.010 | -10 35 44.7 | 10.6 | 89 | 11.00 | 14.40 | -1 | -8 | | | | | | | 2000 | | | WDS 07014-1036, WDS data as of August 2017. This is the D component of J 1484. |
| | 105.354215 | -10.595768 | 10.575 | 87.760 | 12.04 | 14.96 | 0.80 | -4.90 | 1.56 | -6.50 | 10.10 | 2.48 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.354211 | -10.595748 | 10.679 | 88.992 | | | | | | | | | 0.20 | Eu | 2000.008 | | | UCAC5. |
| | 105.354254 | -10.595800 | 10.690 | 89.357 | 12.10 | 14.90 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s. SNR D<20 |
| J 1485 AB | 07 03 22.299 | -08 44 28.3 | 6.7 | 8 | 10.81 | 11.20 | 2 | -6 | | 1 | -4 | | | | 2013 | | | WDS 07033-0843, WDS data as of August 2017. |
| | 105.842981 | -8.741213 | 6.632 | 8.407 | 10.91 | 11.18 | -0.40 | -1.00 | 1.56 | -0.20 | 0.30 | 1.98 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.842982 | -8.741209 | 6.612 | 8.416 | | | | | | | | | 0.20 | Eu | 2000.037 | | | UCAC5. |
| | 105.842967 | -8.741242 | 6.667 | 8.698 | 11.02 | 11.32 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 1487 AB | 07 12 03.690 | -05 26 42.5 | 4.2 | 154 | 10.84 | 12.80 | 1 | 35 | | 2 | 1 | | | | 2000 | | | WDS 07120-0526, WDS data as of August 2017. |
| | 108.015637 | -5.445333 | 3.544 | 159.340 | 11.58 | 13.02 | 34.60 | -30.50 | 1.27 | -4.70 | 2.90 | 2.12 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 is visual estimate from G-J-K-H mags, M2 is GAIA DR1 Gmag (secondary not identified in 2MASS and URAT1). PM data from UCAC5 catalog |
| | 108.015493 | -5.445206 | 4.233 | 154.292 | | | | | | | | | 0.20 | Eu | 2000.079 | | | UCAC5. |
| | 108.015683 | -5.445381 | 3.499 | 161.075 | 11.50 | 13.08 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Significant difference in separation and PA between UCAC5 and GAIA DR1. The PM numbers listed in GAIA DR1 for the primary (38.769 RA, -31.287 Dec) are very close to the UCAC5 numbers shown here; no PM data in GAIA DR1 for the secondary. |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1488 AB | 07 12 04.880 | -05 26 03.6 | 8.2 | 262 | 9.90 | 12.00 | -1 | 1 | | -1 | 9 | | | | 2010 | | | WDS 07121-0525, WDS data as of August 2017. |
| | 108.020358 | -5.434381 | 8.619 | 260.370 | 12.61 | 13.99 | -1.00 | -1.40 | 1.27 | -2.20 | 0.60 | 1.41 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.020362 | -5.434376 | 8.606 | 260.159 | | | | | | | | | 0.20 | Eu | 2000.080 | | | UCAC5. |
| | 108.020383 | -5.434375 | 8.631 | 260.463 | 12.77 | 13.90 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 1496 AB | 07 33 57.830 | -01 41 39.9 | 11.2 | 10 | 11.00 | 11.00 | 10 | -17 | | -1 | 0 | | | | 2016 | | | WDS 07340-0142, WDS data as of August 2017. |
| | 113.490986 | -1.694493 | 11.260 | 10.532 | 11.36 | 11.80 | 7.20 | -17.20 | 1.70 | -4.90 | -1.10 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.490956 | -1.694422 | 11.061 | 11.675 | | | | | | | | | 0.20 | Eu | 2000.114 | | | UCAC5. |
| | 113.490988 | -1.694525 | 11.274 | 11.430 | 11.18 | 11.80 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 1498 AB | 07 34 44.021 | -10 50 39.6 | 7.2 | 178 | 10.95 | 11.40 | -2 | -5 | | 2 | -15 | | | | 2010 | | | WDS 07347-1050, WDS data as of August 2017. |
| | 113.683448 | -10.844551 | 7.343 | 176.627 | 10.84 | 11.36 | 2.30 | -5.90 | 1.56 | 1.60 | -13.00 | 1.98 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.683438 | -10.844526 | 7.249 | 176.491 | | | | | | | | | 0.20 | Eu | 2000.034 | | | UCAC5. |
| | 113.683454 | -10.844553 | 7.353 | 176.554 | 10.66 | 11.26 | | | | | | | 0.70 | C | 2016.167 | | | iT27 1x3s |
| J 1500 AB | 07 39 15.560 | -08 39 45.0 | 6.8 | 180 | 12.30 | 13.90 | -1 | -14 | | | | | | | 2016 | | | WDS 07392-0838, WDS data as of August 2017. |
| | 114.814829 | -8.662582 | 6.521 | 183.721 | 12.29 | 13.93 | -7.20 | -12.20 | 1.70 | -3.60 | -2.30 | 2.26 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 114.814859 | -8.662531 | 6.671 | 184.096 | | | | | | | | | 0.20 | Eu | 2000.064 | | | UCAC5. |
| | 114.814863 | -8.662639 | 6.431 | 184.629 | 12.35 | 13.94 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 1504 AB | 07 52 51.710 | -07 58 17.1 | 9.1 | 251 | 9.44 | 11.56 | -3 | -1 | | 9 | -2 | | | | 2016 | | | WDS 07529-0758, WDS data as of August 2017. |
| | 118.215446 | -7.971403 | 9.350 | 251.312 | 9.27 | 11.61 | -6.90 | -1.90 | 2.26 | -5.10 | 2.00 | 1.70 | 0.96 | Hg | 2015.000 | cccc | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 118.215475 | -7.971395 | 9.395 | 251.028 | | | | | | | | | 0.20 | Eu | 2000.078 | | | UCAC5. |
| | 118.215458 | -7.971428 | 9.320 | 251.805 | 9.46 | 11.45 | | | | | | | 0.70 | C | 2016.107 | | | iT27 1x3s |
| J 1828 AB | 07 04 04.990 | -09 13 23.2 | 5.6 | 172 | 10.47 | 11.00 | -10 | 11 | | 1 | -12 | | | | 2011 | | | WDS 07040-0913, WDS data as of August 2017. |
| | 106.020767 | -9.223127 | 5.585 | 171.401 | 10.34 | 11.66 | -3.20 | 0.10 | 1.56 | -3.30 | 0.10 | 1.56 | 0.96 | Hg | 2015.000 | AACC | **76** | GAIA DR1. M1 and M2 is visual estimate from G-J-K-H mags. PM data from UCAC5 catalog |
| | 106.020781 | -9.223128 | 5.581 | 171.387 | | | | | | | | | 0.20 | Eu | 2000.029 | | | UCAC5. |
| | 106.020863 | -9.223175 | 5.596 | 169.943 | 10.62 | 11.90 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Good CPM candidate, although motion is very minimal and UCAC5 error rates are high relative to the motion. GAIA DR1 shows a parallax of 1.52 (2145.810 LY) for the primary, but none is shown for the secondary. |
| J 1923 AB | 06 10 31.530 | -04 22 36.6 | 5.2 | 37 | 9.80 | 9.80 | -29 | -19 | | 24 | 26 | | | | 2016 | | | WDS 06106-0421, WDS data as of August 2017. |
| | 92.631429 | -4.376785 | 5.315 | 36.513 | 11.73 | 12.05 | -1.00 | 2.10 | 1.41 | -1.40 | -2.40 | 1.41 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 92.631433 | -4.376776 | 5.323 | 36.536 | | | | | | | | | 0.20 | Eu | 2000.045 | | | UCAC5. |
| | 92.631425 | -4.376808 | 5.339 | 35.440 | 11.74 | 12.06 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1944 AB | 06 23 54.620 | +02 00 09.1 | 8.1 | 31 | 11.60 | 12.30 | -11 | -21 | | 67 | 120 | | | | 2016 | | | WDS 06240+0158, WDS data as of August 2017. |
| | 95.977554 | 2.002462 | 8.224 | 29.365 | 12.16 | 12.96 | -8.40 | -19.60 | 1.27 | -0.60 | 1.10 | 1.35 | 0.96 | Hg | 2015.000 | BCCB | **25** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 95.977589 | 2.002543 | 7.898 | 29.726 | | | | | | | | | 0.20 | Eu | 2000.103 | | | UCAC5. |
| | 95.977550 | 2.002461 | 8.051 | 29.320 | 12.09 | 13.46 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 1945 AB | 06 27 12.931 | +11 17 55.2 | 7.6 | 93 | 11.90 | 12.30 | -9 | -1 | | 8 | -3 | | | | 2016 | | | WDS 06272+1118, WDS data as of August 2017. |
| | 96.803858 | 11.298661 | 7.641 | 93.246 | 12.58 | 12.54 | 1.50 | -4.20 | 1.56 | 1.70 | -7.10 | 1.41 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 96.803852 | 11.298677 | 7.637 | 92.942 | | | | | | | | | 0.20 | Eu | 2000.891 | | | UCAC5. |
| | 96.803875 | 11.298653 | 7.594 | 91.887 | 12.34 | 12.43 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 1949 AB | 06 28 22.580 | -04 27 43.7 | 50.4 | 246 | 9.23 | 10.67 | 1 | 1 | | 12 | -12 | | | | 2007 | | | WDS 06284-0428, WDS data as of August 2017. |
| | 97.094095 | -4.462146 | 50.395 | 245.422 | 9.14 | 11.01 | 0.30 | -0.30 | 2.69 | 6.70 | -17.40 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 97.094094 | -4.462145 | 50.376 | 245.732 | | | | | | | | | 0.20 | Eu | 2000.048 | | | UCAC5. |
| | 97.094146 | -4.462206 | 50.482 | 245.593 | 9.26 | 10.84 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 1949 BC | 06 28 19.520 | -04 28 04.4 | 7.4 | 224 | 10.67 | 11.10 | 12 | -12 | | 2 | -12 | | | | 2006 | | | WDS 06284-0428, WDS data as of August 2017. |
| | 97.081326 | -4.467969 | 7.472 | 221.928 | 11.01 | 11.54 | 6.70 | -17.40 | 1.70 | 6.70 | -17.70 | 1.70 | 0.96 | Hg | 2015.000 | AABB | **92** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 97.081299 | -4.467896 | 7.469 | 221.960 | | | | | | | | | 0.20 | Eu | 2000.049 | | | UCAC5. |
| | 97.081338 | -4.468000 | 7.475 | 222.856 | 10.84 | 11.37 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Very good CPM candidate with one reservation. GAIA DR1 shows a parallax of 1.49 for B (2189 LY), but unfortunately none for the secondary, C, which would really be helpful given the distance involved. |
| J 1963 AB | 06 37 21.740 | -03 42 10.0 | 8.7 | 237 | 9.20 | 9.70 | 11 | -33 | | 5 | -40 | | | | 2015 | | | WDS 06375-0336, WDS data as of August 2017. |
| | 99.340637 | -3.702955 | 8.780 | 237.273 | 10.95 | 11.56 | 9.30 | -38.50 | 1.70 | 10.10 | -39.10 | 1.70 | 0.96 | Hg | 2015.000 | AAAB | **97** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 99.340599 | -3.702795 | 8.785 | 237.364 | | | | | | | | | 0.20 | Eu | 2000.070 | | | UCAC5. |
| | 99.340604 | -3.702939 | 8.796 | 237.392 | 10.94 | 11.55 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Excellent CPM candidate. No parallax listed for either component in GAIA DR1. |
| J 1966 AB | 06 40 17.950 | +02 16 54.0 | 11.4 | 349 | 11.81 | 13.10 | 0 | -6 | | -6 | 3 | | | | 2010 | | | WDS 06404+0218, WDS data as of August 2017. |
| | 100.074778 | 2.281665 | 11.440 | 349.033 | 11.88 | 13.67 | -1.50 | -1.70 | 1.70 | -3.60 | 0.40 | 1.84 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 100.074784 | 2.281672 | 11.404 | 349.164 | | | | | | | | | 0.20 | Eu | 2000.117 | | | UCAC5. |
| | 100.074792 | 2.281631 | 11.517 | 349.123 | 11.86 | 13.48 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1967 AB | 06 40 35.090 | +02 17 25.8 | 6.7 | 75 | 11.99 | 12.00 | 1 | -1 | | | | | | | 2000 | | | WDS 06406+0217, WDS data as of August 2017. |
| | 100.146175 | 02.290613 | 6.615 | 75.340 | 11.40 | 12.10 | | | | | | | 1.30 | E2 | 2000.007 | | | 2MASS. M1 and M2 are visual estimates from 2MASS J- and K-bands. Note differences in separation and PA from URAT1 data. |
| | 100.146178 | 2.290590 | 7.535 | 84.747 | 11.36 | 12.13 | 0.79 | -5.79 | 6.53 | 79.00 | -75.55 | 6.53 | 0.20 | Eu | 2014.123 | CCCC | **6** | URAT1. M1 and M2 are URAT1 visual estimates from URAT1 J- and K-bands. PM data from comparison with 2MASS positions. |
| | 100.146175 | 2.290600 | | | 12.05 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. No G mag for secondary available in URAT1. |
| | 100.146185 | 2.290595 | | | | | -2.40 | 1.20 | 1.70 | | | | 0.20 | Eu | 2000.117 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 100.146204 | 2.290575 | 7.737 | 84.661 | 11.86 | 12.58 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Note: Difference between 2MASS/WDS sep-PA data and URAT1 data raised initial concerns about accuracy of the proper motion data for the secondary. However, a comparison of POSSI and POSSII images confirms the secondary's motion. |
| J 1972 AB | 06 44 07.640 | +00 07 00.4 | 5.4 | 221 | 11.76 | 12.40 | 3 | 4 | | 0 | -2 | | | | 2000 | | | WDS 06441+0007, WDS data as of August 2017 |
| | 101.031831 | 0.116813 | 5.382 | 221.442 | 11.91 | 12.73 | -1.50 | 1.70 | 1.70 | -2.10 | 1.80 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 101.031838 | 0.116806 | 5.378 | 221.363 | | | | | | | | | 0.20 | Eu | 2000.106 | | | UCAC5. |
| | 101.031904 | 0.116856 | 5.410 | 223.877 | 12.06 | 12.85 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 1977 AB | 06 56 35.879 | +04 12 58.6 | 9.9 | 168 | 10.29 | 14.00 | -6 | -1 | | 9 | -14 | | | | 2010 | | | WDS 06566+0413, WDS data as of August 2017. |
| | 104.149486 | 4.216306 | 9.834 | 166.189 | 10.43 | 13.14 | -8.50 | -3.80 | 1.41 | 0.90 | -3.20 | 1.56 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 104.149519 | 4.216321 | 9.813 | 166.943 | | | | | | | | | 0.20 | Eu | 2000.492 | | | UCAC5. |
| | 104.149450 | 4.216331 | 9.947 | 165.276 | 10.22 | 13.00 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 1978 AB | 06 56 38.030 | +03 18 08.7 | 5.8 | 268 | 9.40 | 11.00 | 3 | -11 | | 9 | -8 | | | | 2010 | | | WDS 06567+0315, WDS data as of August 2017. |
| | 104.158500 | 3.302158 | 5.738 | 266.241 | 9.14 | 10.20 | 0.10 | -9.00 | 1.84 | -0.90 | -7.60 | 3.39 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 104.158500 | 3.302195 | 5.723 | 266.022 | | | | | | | | | 0.20 | Eu | 2000.141 | | | UCAC5. |
| | 104.158504 | 3.302156 | 5.650 | 265.228 | 9.28 | 11.10 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 1987 AB | 07 02 36.911 | +02 50 16.6 | 6.0 | 265 | 10.20 | 10.70 | -1 | -5 | | 1 | -5 | | | | 2015 | | | WDS 07026+0250, WDS data as of August 2017. |
| | 105.653800 | 2.837955 | 5.990 | 265.364 | 10.49 | 11.56 | -1.20 | -3.20 | 1.41 | -2.50 | -3.90 | 1.56 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.653805 | 2.837969 | 5.971 | 265.445 | | | | | | | | | 0.20 | Eu | 2000.142 | | | UCAC5. |
| | 105.653775 | 2.837975 | 5.999 | 265.219 | 10.54 | 11.69 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 1988 AB | 07 02 41.320 | +02 50 25.3 | 8.3 | 236 | 11.88 | 12.58 | -6 | 1 | | -3 | -6 | | | | 2015 | | | WDS 07028+0250, WDS data as of August 2017. |
| | 105.672015 | 2.840357 | 8.330 | 236.431 | 11.13 | 11.84 | -5.50 | -0.80 | 1.27 | 4.10 | -4.00 | 1.27 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.672038 | 2.840360 | 8.320 | 236.783 | | | | | | | | | 0.20 | Eu | 2000.142 | | | UCAC5. |
| | 105.671996 | 2.840397 | 8.361 | 234.795 | 10.99 | 11.58 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 1995 AB | 06 27 37.730 | +00 37 12.0 | 9.5 | 128 | 12.14 | 13.43 | 3 | 2 | | 17 | -24 | | | | 2015 | | | WDS 06276+0035, WDS data as of August 2017. |
| | 96.907200 | 0.619991 | 9.490 | 128.092 | 12.39 | 13.83 | 1.10 | -2.70 | 1.70 | -4.10 | 0.80 | 1.84 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 96.907196 | 0.620002 | 9.583 | 128.055 | | | | | | | | | 0.20 | Eu | 2000.094 | | | UCAC5. |
| | 96.907267 | 0.620078 | 9.853 | 127.808 | 12.42 | 13.91 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2006 AB | 06 40 35.791 | -00 39 35.9 | 6.7 | 125 | 10.80 | 11.60 | -2 | -2 | | | | | | | 2010 | | | WDS 06408-0040, WDS data as of August 2017. |
| | 100.149112 | -0.659964 | 7.010 | 124.665 | 10.58 | 11.73 | -3.70 | 0.90 | 1.56 | -4.50 | 1.50 | 1.70 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 100.149127 | -0.659968 | 7.025 | 124.669 | | | | | | | | | 0.20 | Eu | 2000.094 | | | UCAC5. |
| | 100.149129 | -0.659947 | 6.808 | 124.742 | 10.75 | 11.76 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2010 AB | 07 02 47.349 | -04 34 31.7 | 6.4 | 77 | 10.34 | 10.70 | -3 | -1 | | -2 | -3 | | | | 2010 | | | WDS 07028-0435, WDS data as of August 2017. |
| | 105.697327 | -4.575483 | 6.344 | 76.526 | 10.18 | 10.97 | -1.60 | -1.30 | 1.56 | -1.40 | -1.60 | 3.25 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.697333 | -4.575477 | 6.343 | 76.496 | | | | | | | | | 0.20 | Eu | 2000.077 | | | UCAC5. |
| | 105.697367 | -4.575550 | 6.249 | 75.165 | 10.42 | 11.19 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2024 AB | 06 42 13.749 | -00 47 49.2 | 2.3 | 50 | 11.12 | 12.12 | -1 | -3 | | 1 | -4 | | | | 1991 | | | WDS 06423-0048, WDS data as of August 2017. |
| | 100.557219 | -0.797093 | | | 11.04 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimates from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 100.557254 | -0.797049 | | | | | -8.30 | 10.50 | 1.91 | | | | 0.20 | Eu | 2000.096 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 100.557308 | -0.797158 | 2.197 | 40.938 | 10.94 | 11.66 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Touching star disks |
| | | | | | | | | | | | | | | | | | | Secondary also not identified in 2MASS and URAT1. |
| BAL 709 AC | 06 42 13.749 | -00 47 49.2 | 8.6 | 30 | 11.12 | 12.00 | -1 | -3 | | 3 | -7 | | | | 2015 | | | WDS 06423-0048, WDS data as of August 2017. This is the C component of J 2024. |
| | 100.557254 | -0.797049 | 8.590 | 30.676 | 11.04 | 12.08 | -8.30 | -10.50 | 1.91 | 1.10 | -2.20 | 2.97 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 100.557308 | -0.797158 | 8.411 | 30.282 | | | | | | | | | 0.20 | Eu | 2000.096 | | | UCAC5. |
| | | | | | | | | | | | | | 0.70 | C | | | | iT Vmag Data |
| J 2025 AB | 06 44 02.749 | -00 57 06.9 | 4.4 | 207 | 11.40 | 11.60 | 1 | 2 | | -33 | -8 | | | | 2010 | | | WDS 06441-0056, WDS data as of August 2017. |
| | 101.011459 | -0.951929 | 4.466 | 206.560 | 12.31 | 13.27 | -2.70 | 0.30 | 1.70 | -1.90 | 0.00 | 1.20 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 101.011470 | -0.951930 | 4.468 | 206.706 | | | | | | | | | 0.20 | Eu | 2000.970 | | | UCAC5. |
| | 101.011408 | -0.951964 | 4.240 | 206.018 | 12.28 | 13.19 | | | | | | | 0.70 | C | 2018.088 | | | iT24 5x3s |
| J 2027 AB | 06 47 19.420 | +10 06 01.3 | 4.7 | 267 | 12.20 | 12.90 | 4 | -5 | | -20 | -13 | | | | 2007 | | | WDS 06473+1008, WDS data as of August 2017. |
| | 101.830938 | 10.100424 | 4.703 | 267.196 | 12.17 | 12.95 | -0.30 | -1.80 | 1.56 | 0.60 | -6.10 | 1.70 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 101.830939 | 10.100431 | 4.713 | 267.942 | | | | | | | | | 0.20 | Eu | 2000.882 | | | UCAC5. |
| | 101.830996 | 10.100425 | 4.844 | 265.501 | 12.14 | 12.98 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2427 AB | 06 24 48.320 | +00 04 30.0 | 3.7 | 331 | 11.60 | 12.40 | 3 | -26 | | -12 | -11 | | | | 2015 | | | WDS 06248+0005, WDS data as of August 2017. |
| | 96.201352 | 0.074955 | 3.702 | 331.227 | 11.85 | 12.75 | -3.30 | -12.70 | 1.70 | -5.30 | -13.40 | 1.70 | 0.96 | Hg | 2015.000 | CBCB | **12** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 96.201366 | 0.075007 | 3.698 | 331.716 | | | | | | | | | 0.20 | Eu | 2000.088 | | | UCAC5. |
| | 96.201321 | 0.074992 | 3.329 | 330.586 | 11.91 | 12.78 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2432 AB | 06 41 51.250 | +00 06 52.4 | 3.3 | 5 | 11.51 | 11.57 | -2 | -1 | | 3 | 16 | | | | 2015 | | | WDS 06419+0006, WDS data as of August 2017. |
| | 100.463525 | 0.114505 | 3.254 | 4.670 | 11.71 | 11.31 | -1.60 | -1.70 | 1.70 | -1.90 | -1.50 | 1.70 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 100.463532 | 0.114512 | 3.251 | 4.745 | | | | | | | | | 0.20 | Eu | 2000.103 | | | UCAC5. |
| | 100.463704 | 0.115336 | 2.958 | 7.870 | 11.77 | 11.48 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2434 AB | 06 45 32.621 | +04 23 38.2 | 6.6 | 298 | 9.02 | 10.70 | 2 | -9 | | -7 | 0 | | | | 2010 | | | WDS 06455+0424, WDS data as of August 2017. |
| | 101.385929 | 4.393954 | 6.593 | 297.637 | 8.88 | 11.36 | -3.00 | -3.30 | 2.69 | -13.00 | -4.10 | 3.82 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 101.385941 | 4.393968 | 6.468 | 298.346 | | | | | | | | | 0.20 | Eu | 2000.152 | | | UCAC5. |
| | 101.385929 | 4.393942 | 6.560 | 297.511 | 9.08 | 11.42 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2446 AB | 06 53 46.970 | +10 06 56.3 | 2.5 | 109 | 10.00 | 11.00 | -30 | -13 | | 12 | -3 | | | | 2000 | | | WDS 06538+1007, WDS data as of August 2017. |
| | 103.445696 | 10.115671 | 2.564 | 109.265 | 11.44 | 12.10 | -4.80 | 1.10 | 2.40 | 3.20 | -2.90 | 4.46 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are GAIA DR1 Gmags – no J-H-K mags available for the secondary, which is not recognized by 2MASS and URAT1. The G-J-H-K magnitude for the primary is 12.135, but didn't include here for sake of consistency. PM data from UCAC5 catalog |
| | 103.445715 | 10.115666 | 2.439 | 108.904 | | | | | | | | | 0.20 | Eu | 2000.882 | | | UCAC5. |
| | 103.445775 | 10.115728 | 2.500 | 110.117 | 11.79 | 12.18 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2447 AB | 06 53 45.171 | -10 52 01.5 | 2.8 | 270 | 10.32 | 10.80 | 28 | -17 | | -8 | 8 | | | | 2015 | | | WDS 06537-1051, WDS data as of August 2017. |
| | 103.438265 | -10.867159 | 2.753 | 270.210 | 10.54 | 11.62 | 5.40 | -16.10 | 1.56 | 5.70 | -16.10 | 3.25 | 0.96 | Hg | 2015.000 | AACB | **78** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.438242 | -10.867091 | 2.758 | 270.209 | | | | | | | | | 0.20 | Eu | 1999.990 | | | UCAC5. |
| | 103.438258 | -10.867100 | 3.756 | 270.005 | 10.26 | 11.29 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | 2MASS position for secondary doesn't match the WDS position, so can't be positive about the J-H-K values (GAIA Gmag for primary is 10.107, for secondary 10.878). Looks like a good PM candidate, although motion is somewhat minimal in relation to errors. GAIA DR1 shows a parallax of 5.72 (570.215 LY) for the primary, none listed for the secondary. |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2450 AB | 07 03 03.410 | -00 28 21.4 | 3.9 | 111 | 11.03 | 14.20 | -31 | 14 | | | | | | | 2000 | | | WDS 07031-0029, WDS data as of August 2017. |
| | 105.764250 | -0.472653 | 3.919 | 111.321 | 10.99 | 12.73 | -0.60 | -1.40 | 1.41 | -3.00 | 0.20 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.764253 | -0.472647 | 3.961 | 111.457 | | | | | | | | | 0.20 | Eu | 2000.114 | | | UCAC5. |
| | 105.764238 | -0.472614 | 3.484 | 113.512 | 11.04 | 12.64 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Touching star disks. SNR B<20 |
| J 2453 AB | 07 07 53.629 | +00 48 48.4 | 4.9 | 156 | 10.50 | 10.90 | -17 | 21 | | 11 | -19 | | | | 2010 | | | WDS 07078+0050, WDS data as of August 2017. |
| | 106.973455 | 0.813457 | 4.730 | 154.763 | 12.88 | 13.24 | 2.50 | -1.30 | 1.70 | -0.50 | 0.10 | 1.77 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 106.973445 | 0.813463 | 4.767 | 154.393 | | | | | | | | | 0.20 | Eu | 2000.118 | | | UCAC5. |
| | 106.973479 | 0.813397 | 4.642 | 153.934 | 12.94 | 13.31 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2454 AB | 07 09 49.130 | +00 28 58.1 | 4.8 | 342 | 11.30 | 11.30 | -5 | -5 | | -4 | -1 | | | | 2016 | | | WDS 07097+0029, WDS data as of August 2017. |
| | 107.454299 | 0.484056 | 4.890 | 160.828 | 12.35 | 12.36 | -4.70 | -1.60 | 1.70 | -3.80 | -2.10 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.454319 | 0.484063 | 4.879 | 160.945 | | | | | | | | | 0.20 | Eu | 2000.118 | | | UCAC5. |
| | 107.454750 | 0.482756 | 4.914 | 161.861 | 12.39 | 12.36 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2458 AB | 07 14 55.540 | -01 13 07.0 | 4.7 | 202 | 10.20 | 12.20 | 9 | 7 | | | | | | | 2010 | | | WDS 07150-0112, WDS data as of August 2017. |
| | 108.731469 | -1.218613 | 4.512 | 204.548 | 11.86 | 12.74 | 4.10 | -1.00 | 1.63 | -4.20 | -10.10 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.731452 | -1.218609 | 4.337 | 203.820 | | | | | | | | | 0.20 | Eu | 2000.107 | | | UCAC5. |
| | 108.731513 | -1.218633 | 4.258 | 203.671 | 11.86 | 12.75 | | | | | | | 0.70 | C | 2016.096 | | | iT27 2x3s |
| J 2459 AB | 07 15 24.760 | -11 05 48.5 | 6.0 | 105 | 10.77 | 10.90 | -15 | 5 | | -1 | 1 | | | | 2010 | | | WDS 07155-1106, WDS data as of August 2017. |
| | 108.853184 | -11.096795 | 6.015 | 105.641 | 11.60 | 11.64 | -10.20 | 3.60 | 1.56 | -11.50 | 3.40 | 1.56 | 0.96 | Hg | 2015.000 | BCCB | **25** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.853228 | -11.096810 | 6.033 | 105.577 | | | | | | | | | 0.20 | Eu | 2000.011 | | | UCAC5. |
| | 108.853129 | -11.096789 | 6.076 | 105.367 | 11.47 | 11.56 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2461 AB | 07 17 02.360 | -10 34 56.5 | 6.0 | 343 | 10.65 | 12.60 | -2 | 1 | | -3 | 3 | | | | 2010 | | | WDS 07171-1036, WDS data as of August 2017. |
| | 109.259856 | -10.582370 | 6.130 | 342.068 | 10.32 | 11.89 | -2.40 | 1.30 | 1.56 | -3.40 | 3.90 | 1.63 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.259866 | -10.582376 | 6.087 | 342.092 | | | | | | | | | 0.20 | Eu | 2000.018 | | | UCAC5. |
| | 109.259879 | -10.582381 | 6.146 | 341.248 | 10.51 | 11.98 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2462 AB | 07 17 06.240 | -10 32 23.1 | 8.8 | 4 | 11.87 | 12.85 | -11 | -3 | | -7 | 1 | | | | 2000 | | | WDS 07172-1034, WDS data as of August 2017. |
| | 109.275730 | -10.539751 | 8.754 | 3.335 | 11.68 | 12.75 | -7.80 | -1.60 | 1.56 | -8.90 | -0.20 | 1.56 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.275763 | -10.539744 | 8.734 | 3.450 | | | | | | | | | 0.20 | Eu | 2000.018 | | | UCAC5. |
| | 109.275729 | -10.539786 | 8.645 | 1.857 | 11.68 | 12.81 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2464 AB | 07 18 11.741 | -10 31 32.1 | 5.4 | 60 | 10.70 | 10.70 | -2 | 0 | | 6 | 7 | | | | 2000 | | | WDS 07185-1032, WDS data as of August 2017. |
| | 109.548952 | -10.525599 | 5.371 | 59.648 | 12.55 | 13.07 | 3.20 | 1.00 | 1.56 | -2.90 | 1.90 | 1.77 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.548939 | -10.525603 | 5.445 | 60.259 | | | | | | | | | 0.20 | Eu | 2000.020 | | | UCAC5. |
| | 109.549008 | -10.525692 | 5.418 | 57.260 | 12.57 | 13.30 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2477 AB | 07 28 04.740 | -03 31 04.6 | 3.0 | 71 | 11.22 | 10.80 | -68 | -19 | | | | | | | 2005 | | | WDS 07281-0330, WDS data as of August 2017. |
| | 112.019721 | -3.517950 | | | 11.11 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimates from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 112.019748 | -3.517929 | | | | | -6.30 | -5.10 | 1.56 | | | | 0.20 | Eu | 2000.093 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 112.019688 | -3.518103 | 2.797 | 61.377 | 11.06 | 11.71 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Secondary also not identified in 2MASS and URAT1. |
| J 2482 AB | 07 34 14.121 | -01 35 04.3 | 4.4 | 204 | 12.60 | 12.30 | 10 | 8 | | -2 | -17 | | | | 2016 | | | WDS 07343-0135, WDS data as of August 2017. |
| | 113.558833 | -1.584529 | 4.429 | 202.466 | 12.79 | 12.65 | 4.10 | -3.10 | 1.70 | 3.70 | -3.70 | 1.70 | 0.96 | Hg | 2015.000 | CACB | **16** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.558816 | -1.584516 | 4.419 | 202.432 | | | | | | | | | 0.20 | Eu | 2000.113 | | | UCAC5. |
| | 113.558392 | -1.585731 | 4.377 | 201.928 | 12.80 | 12.50 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2485 AB | 07 41 36.561 | -10 43 28.3 | 6.3 | 126 | 11.00 | 13.00 | -10 | 2 | | 19 | -19 | | | | 2010 | | | WDS 07417-1043, WDS data as of August 2017. |
| | 115.402356 | -10.724531 | 6.544 | 127.460 | 12.66 | 13.70 | -2.30 | 1.10 | 1.70 | 2.90 | -12.90 | 1.91 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 115.402366 | -10.724535 | 6.357 | 126.338 | | | | | | | | | 0.20 | Eu | 2000.043 | | | UCAC5. |
| | 115.402413 | -10.724639 | 6.230 | 127.356 | 12.99 | 13.84 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2487 AB | 07 46 13.950 | -06 02 29.5 | 6.7 | 131 | 9.50 | 11.00 | -40 | 3 | | 18 | -45 | | | | 2010 | | | WDS 07461-0603, WDS data as of August 2017. |
| | 116.558116 | -6.041629 | 6.706 | 131.198 | 11.63 | 12.57 | -5.80 | -19.10 | 1.41 | -6.80 | -19.30 | 1.41 | 0.96 | Hg | 2015.000 | AABB | **92** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 116.558140 | -6.041549 | 6.716 | 131.091 | | | | | | | | | 0.20 | Eu | 2000.084 | | | UCAC5. |
| | 116.558138 | -6.041594 | 6.820 | 133.797 | 11.47 | 12.61 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Good PM candidate. No parallax data for either component in GAIA DR1. |
| J 2491 AB | 07 57 20.130 | -03 46 09.9 | 4.0 | 10 | 12.00 | 13.00 | -5 | -35 | | | | | | | 2004 | | | WDS 07574-0345, WDS data as of August 2017. |
| | 119.333894 | -3.769418 | 3.921 | 7.798 | 12.59 | 13.08 | -3.20 | 1.30 | 1.70 | -2.70 | 2.30 | 1.70 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 119.333907 | -3.769424 | 3.906 | 7.710 | | | | | | | | | 0.20 | Eu | 2000.107 | | | UCAC5. |
| | 119.333875 | -3.769408 | 3.864 | 8.688 | 12.57 | 13.09 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2493 AB | 08 10 12.749 | -11 09 40.6 | 7.3 | 314 | 9.50 | 12.50 | -2 | -2 | | -16 | 11 | | | | 2000 | | | WDS 08101-1110, WDS data as of August 2017. |
| | 122.553123 | -11.161264 | 7.266 | 314.171 | 11.52 | 13.18 | -2.40 | 2.50 | 1.70 | -1.40 | 3.10 | 1.84 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 122.553133 | -11.161274 | 7.270 | 314.045 | | | | | | | | | 0.20 | Eu | 2000.041 | | | UCAC5. |
| | 122.553117 | -11.161269 | 7.339 | 316.230 | 11.43 | 13.37 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2611 AB | 06 48 07.840 | +09 44 12.1 | 4.5 | 125 | 11.92 | 14.10 | -2 | 2 | | 34 | -30 | | | | 2000 | | | WDS 06482+0944, WDS data as of August 2017. |
| | 102.032654 | 9.736666 | 4.507 | 124.971 | 11.96 | 12.93 | 2.50 | -4.70 | 1.41 | 1.20 | -5.40 | 1.56 | 0.96 | Hg | 2015.000 | CACB | **16** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 102.032644 | 9.736684 | 4.516 | 124.734 | | | | | | | | | 0.20 | Eu | 2000.878 | | | UCAC5. |
| | 102.032675 | 9.736689 | 4.312 | 128.261 | 11.94 | 12.92 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2611 AC | 06 48 07.840 | +09 44 12.1 | 17.2 | 349 | 11.92 | 15.60 | -2 | 2 | | 5 | 8 | | | | 2000 | | | WDS 06482+0944, WDS data as of August 2017. |
| | 102.032654 | 9.736666 | 17.371 | 348.649 | 11.96 | 14.08 | 2.50 | -4.70 | 1.41 | -9.60 | 2.80 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 102.032644 | 9.736684 | 17.234 | 349.136 | | | | | | | | | 0.20 | Eu | 2000.878 | | | UCAC5. |
| | 102.032675 | 9.736689 | 17.358 | 347.856 | 11.94 | 14.06 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2616 AB | 06 54 24.510 | -00 09 09.2 | 5.1 | 3 | 12.80 | 12.60 | -2 | -12 | | -8 | 1 | | | | 2016 | | | WDS 06544-0008, WDS data as of August 2017. |
| | 103.602137 | -0.152557 | 5.130 | 1.218 | 12.86 | 12.77 | -0.40 | -3.90 | 1.70 | 3.00 | -10.10 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.602139 | -0.152541 | 5.223 | 1.635 | | | | | | | | | 0.20 | Eu | 2000.110 | | | UCAC5. |
| | 103.602183 | -0.152564 | 5.121 | 359.161 | 13.09 | 12.88 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2616 AC | 06 54 24.510 | -00 09 09.2 | 21.5 | 20 | 12.80 | 14.50 | -2 | -12 | | 103 | -111 | | | | 2015 | | | WDS 06544-0008, WDS data as of August 2017. |
| | 103.602137 | -0.152557 | 21.455 | 19.549 | 12.86 | 14.50 | -0.40 | -3.90 | 1.70 | -2.20 | -4.70 | 2.19 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 103.602139 | -0.152541 | 21.475 | 19.609 | | | | | | | | | 0.20 | Eu | 2000.110 | | | UCAC5. |
| | 103.602183 | -0.152564 | 21.427 | 17.982 | 13.09 | 14.68 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. SNR B<20 |
| J 2623 AB | 07 09 11.890 | -05 16 54.5 | 5.5 | 115 | 10.80 | 11.80 | -25 | 2 | | 23 | -12 | | | | 2010 | | | WDS 07091-0518, WDS data as of August 2017. |
| | 107.299555 | -5.281813 | 5.513 | 115.805 | 12.28 | 12.80 | -3.20 | -0.30 | 1.27 | -0.90 | 5.30 | 1.27 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.299568 | -5.281812 | 5.518 | 116.748 | | | | | | | | | 0.20 | Eu | 2000.078 | | | UCAC5. |
| | 107.299563 | -5.281833 | 5.451 | 116.005 | 12.15 | 12.69 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2636 AB | 08 02 20.021 | -06 26 02.4 | 4.8 | 62 | 10.39 | 12.00 | -18 | -23 | | 24 | -1 | | | | 2012 | | | WDS 08026-0628, WDS data as of August 2017. |
| | 120.583403 | -6.434084 | 4.596 | 61.730 | 10.33 | 12.50 | -11.50 | -22.50 | 1.41 | -13.90 | -21.70 | 2.34 | 0.96 | Hg | 2015.000 | BABB | **74** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 120.583451 | -6.433991 | 4.623 | 62.076 | | | | | | | | | 0.20 | Eu | 2000.095 | | | UCAC5. |
| | 120.583425 | -6.434136 | 4.363 | 59.416 | 10.22 | 12.41 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Good CPM candidate. GAIA DR1 shows a parallax for the primary of 3.54 (921.365 LY), but none listed for the secondary. |
| J 2637 AB | 08 02 26.280 | -06 25 53.4 | 7.3 | 240 | 11.53 | 14.00 | 5 | -9 | | 15 | 9 | | | | 2000 | | | WDS 08027-0628, WDS data as of August 2017. |
| | 120.609577 | -6.431590 | 7.353 | 241.709 | 11.95 | 13.95 | 0.00 | -9.60 | 1.41 | -10.80 | -1.40 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 120.609577 | -6.431550 | 7.272 | 240.263 | | | | | | | | | 0.20 | Eu | 2000.098 | | | UCAC5. |
| | 120.609550 | -6.431636 | 7.008 | 241.446 | 11.92 | 13.86 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2758 AB | 06 51 23.450 | -03 54 46.3 | 3.2 | 126 | 12.30 | 13.50 | -21 | 7 | | | | | | | 2000 | | | WDS 06514-0354, WDS data as of August 2017. |
| | 102.847739 | -3.912861 | 3.215 | 125.802 | 12.29 | 12.83 | -2.50 | 1.70 | 1.41 | -2.40 | 1.10 | 1.56 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are GAIA DR1 Gmags. PM data from UCAC5 catalog. Secondary not recognized in 2MASS and URAT1. G-J-H-K magnitude for M1 is 12.233. |
| | 102.847749 | -3.912868 | 3.209 | 125.683 | | | | | | | | | 0.20 | Eu | 2000.082 | | | UCAC5. |
| | 102.847846 | -3.912950 | 3.062 | 125.308 | 12.37 | 12.81 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2766 AB | 06 57 44.310 | -04 36 55.8 | 5.4 | 38 | 12.40 | 12.50 | -13 | -3 | | -3 | 2 | | | | 2015 | | | WDS 06577-0435, WDS data as of August 2017. |
| | 104.434654 | -4.615499 | 5.446 | 37.832 | 12.29 | 12.35 | -1.90 | 1.30 | 1.70 | -0.80 | 1.60 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 104.434662 | -4.615504 | 5.432 | 37.717 | | | | | | | | | 0.20 | Eu | 2000.074 | | | UCAC5. |
| | 104.434633 | -4.615478 | 5.376 | 39.973 | 12.50 | 12.56 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2768 AB | 06 58 38.911 | -09 09 47.5 | 5.8 | 53 | 11.50 | 12.00 | -14 | -5 | | 52 | 37 | | | | 2015 | | | WDS 06587-0911, WDS data as of August 2017. |
| | 104.662158 | -9.163151 | 5.830 | 52.502 | 12.53 | 12.62 | 3.80 | 17.10 | 1.56 | 2.80 | 16.70 | 1.56 | 0.96 | Hg | 2015.000 | BABB | **74** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 104.662142 | -9.163222 | 5.845 | 52.539 | | | | | | | | | 0.20 | Eu | 2000.024 | | | UCAC5. |
| | 104.662158 | -9.163150 | 5.868 | 54.351 | 12.67 | 12.76 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Good CPM candidate. No parallax data available in GAIA DR1 for either component. |
| J 2769 AB | 06 59 39.050 | +02 19 33.2 | 5.1 | 69 | 12.00 | 12.60 | -22 | 3 | | 11 | 6 | | | | 2010 | | | WDS 06597+0219, WDS data as of August 2017. |
| | 104.912732 | 2.325935 | 5.596 | 67.120 | 12.24 | 12.94 | -2.50 | -0.60 | 1.70 | -3.40 | 2.70 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 104.912742 | 2.325938 | 5.589 | 67.633 | | | | | | | | | 0.20 | Eu | 2000.137 | | | UCAC5. |
| | 104.912742 | 2.325947 | 5.548 | 68.317 | 12.60 | 12.35 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2770 AB | 06 59 58.210 | -05 06 26.0 | 8.3 | 176 | 11.44 | 12.40 | -2 | -1 | | 4 | -3 | | | | 2015 | | | WDS 06599-0507, WDS data as of August 2017. |
| | 104.992587 | -5.107276 | 8.307 | 175.645 | 11.46 | 13.38 | -1.40 | -3.80 | 1.70 | -2.80 | -3.40 | 1.84 | 0.96 | Hg | 2015.000 | CBCC | **12** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 104.992593 | -5.107260 | 8.315 | 175.508 | | | | | | | | | 0.20 | Eu | 2000.072 | | | UCAC5. |
| | 104.992600 | -5.107306 | 8.357 | 175.386 | 11.37 | 13.30 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2772 AB | 07 03 06.931 | -04 24 29.4 | 6.9 | 132 | 10.50 | 11.40 | -11 | 1 | | 16 | -3 | | | | 2010 | | | WDS 07030-0424, WDS data as of August 2017. |
| | 105.778890 | -4.408173 | 6.880 | 130.735 | 12.10 | 12.67 | 1.30 | -1.80 | 1.77 | -0.10 | -0.30 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.778885 | -4.408165 | 6.912 | 130.763 | | | | | | | | | 0.20 | Eu | 2000.082 | | | UCAC5. |
| | 105.778871 | -4.408219 | 6.820 | 130.840 | 12.20 | 12.87 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2774 AB | 07 04 21.950 | +09 15 56.4 | 4.1 | 85 | 12.57 | 12.74 | 3 | -21 | | -3 | 1 | | | | 2010 | | | WDS 07044+0917, WDS data as of August 2017. |
| | 106.091520 | 9.265563 | 4.061 | 82.973 | 12.29 | 12.84 | 9.10 | -25.30 | 1.27 | -2.30 | -1.90 | 1.27 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 106.091484 | 9.265662 | 4.196 | 87.743 | | | | | | | | | 0.20 | Eu | 2000.877 | | | UCAC5. |
| | 106.091517 | 9.265481 | 3.932 | 77.216 | 12.39 | 12.90 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Unusual disparities in PA for this pair. |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2776 AB | 07 05 05.391 | +00 58 41.1 | 6.3 | 216 | 9.90 | 13.50 | 0 | 1 | | | | | | | 2010 | | | WDS 07051+0059, WDS data as of August 2017. |
| | 106.272449 | 0.978109 | 6.495 | 216.259 | 11.88 | 13.83 | -2.00 | -2.00 | 1.70 | -4.70 | -5.30 | 1.84 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 106.272457 | 0.978118 | 6.432 | 216.239 | | | | | | | | | 0.20 | Eu | 2000.117 | | | UCAC5. |
| | 106.272458 | 0.978078 | 6.497 | 216.390 | 12.00 | 13.74 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2781 AB | 07 08 11.099 | -01 51 59.4 | 25.1 | 6 | 10.94 | 11.63 | -1 | -1 | | -3 | 1 | | | | 2015 | | | WDS 07082-0151, WDS data as of August 2017. |
| | 107.046266 | -1.866534 | 25.518 | 9.379 | 11.15 | 11.82 | -1.40 | 1.20 | 1.56 | -2.20 | 0.90 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.046271 | -1.866538 | 25.523 | 9.403 | | | | | | | | | 0.20 | Eu | 2000.103 | | | UCAC5. |
| | 107.046204 | -1.866458 | 25.569 | 9.483 | 10.93 | 12.01 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| BAL 409 BC | 07 08 11.099 | -01 51 59.4 | 5.0 | 267 | 11.80 | 12.90 | -3 | 1 | | 1.00 | -1.00 | | | | 2008 | | | WDS 07082-0151, WDS data as of August 2017. This is the B component of J 2781 AB. |
| | 107.047421 | -1.859540 | 5.168 | 266.482 | 11.82 | 12.85 | -2.20 | 0.90 | 1.70 | -3.70 | 1.40 | 1.84 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.047430 | -1.859544 | 5.145 | 266.402 | | | | | | | | | 0.20 | Eu | 2000.104 | | | UCAC5. |
| | 107.047375 | -1.859453 | 4.964 | 268.615 | 12.01 | 13.09 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2782 AB | 07 08 07.711 | -10 36 17.2 | 3.5 | 283 | 10.49 | 11.10 | 5 | -1 | | | | | | | 2000 | | | WDS 07081-1036, WDS data as of August 2017. |
| | 107.032169 | -10.604815 | 3.512 | 282.732 | 10.46 | 11.78 | 0.90 | 0.60 | 1.56 | -0.60 | 0.20 | 3.39 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.032165 | -10.604817 | 3.492 | 282.885 | | | | | | | | | 0.20 | Eu | 2000.017 | | | UCAC5. |
| | 107.032192 | -10.604814 | 3.547 | 281.216 | 10.61 | 11.21 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2784 AB | 07 08 28.480 | +00 57 40.2 | 6.4 | 159 | 12.60 | 12.60 | -7 | 13 | | 0 | 3 | | | | 2000 | | | WDS 07086+0059, WDS data as of August 2017. |
| | 107.118682 | 0.961179 | 6.371 | 158.714 | 13.10 | 13.14 | -1.30 | -1.40 | 1.70 | -2.50 | -2.80 | 1.70 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.118687 | 0.961185 | 6.358 | 158.503 | | | | | | | | | 0.20 | Eu | 2000.118 | | | UCAC5. |
| | 107.118688 | 0.961247 | 6.506 | 159.910 | 12.85 | 13.17 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2788 AB | 07 10 33.470 | -10 11 41.8 | 5.3 | 123 | 12.50 | 13.50 | -172 | 105 | | 8 | 2 | | | | 2000 | | | WDS 07107-1012, WDS data as of August 2017. |
| | 107.640748 | -10.195746 | 5.287 | 302.116 | 12.94 | 13.66 | -0.80 | -2.20 | 1.41 | 2.50 | -0.20 | 1.41 | 0.96 | Hg | 2015.000 | CBCC | **12** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.640738 | -10.195745 | 5.262 | 302.668 | | | | | | | | | 0.20 | Eu | 2000.023 | | | UCAC5. |
| | 107.640788 | -10.195764 | 5.215 | 302.475 | 12.94 | 13.66 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s. **Note 180 degree difference in PA from WDS data --last WDS PA measurement appears to be in error.** |
| J 2789 AB | 07 11 34.389 | -07 48 48.7 | 6.8 | 86 | 11.40 | 12.10 | -14 | -5 | | 5 | -7 | | | | 2010 | | | WDS 07115-0750, WDS data as of August 2017. |
| | 107.893289 | -7.813533 | 6.520 | 84.153 | 11.89 | 12.61 | -3.70 | -0.10 | 1.70 | -5.80 | 1.10 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 107.893304 | -7.813533 | 6.551 | 84.339 | | | | | | | | | 0.20 | Eu | 2000.061 | | | UCAC5. |
| | 107.893321 | -7.813547 | 6.498 | 84.170 | 11.80 | 12.51 | | | | | | | 0.70 | C | 2016.167 | | | iT27 1x3s |
| J 2792 AB | 07 14 40.190 | -02 11 43.3 | 3.6 | 182 | 11.81 | 12.10 | -2 | 19 | | -7 | -20 | | | | 2000 | | | WDS 07146-0212, WDS data as of August 2017. |
| | 108.667474 | -2.195398 | 3.569 | 182.357 | 11.93 | 12.17 | -1.80 | -2.60 | 1.41 | -1.60 | -3.60 | 1.41 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.667481 | -2.195387 | 3.554 | 182.419 | | | | | | | | | 0.20 | Eu | 2000.100 | | | UCAC5. |
| | 108.667433 | -2.195444 | 3.201 | 181.342 | 11.76 | 11.89 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2793 AB | 07 14 14.661 | -10 06 19.0 | 3.1 | 106 | 11.77 | 12.68 | -6 | -2 | | 27 | -7 | | | | 2000 | | | WDS 07144-1007, WDS data as of August 2017. |
| | 108.561222 | -10.105362 | 2.913 | 105.110 | 11.02 | 11.90 | 6.50 | -3.80 | 1.56 | -6.20 | 0.00 | 3.25 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.561194 | -10.105346 | 3.111 | 105.209 | | | | | | | | | 0.20 | Eu | 2000.025 | | | UCAC5. |
| | 108.561263 | -10.105372 | 2.455 | 104.390 | 10.92 | 11.24 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2796 AB | 07 15 00.450 | -06 52 51.5 | 5.9 | 346 | 12.00 | 12.00 | 3 | -6 | | -17 | 3 | | | | 2010 | | | WDS 07151-0653, WDS data as of August 2017. |
| | 108.751893 | -6.881012 | 6.023 | 345.902 | 12.89 | 14.04 | -2.90 | 1.00 | 1.70 | -1.20 | -0.10 | 2.13 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.751906 | -6.881016 | 6.045 | 345.703 | | | | | | | | | 0.20 | Eu | 2000.067 | | | UCAC5. |
| | 108.751842 | -6.881133 | 6.609 | 349.090 | 13.36 | 14.27 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. SNR B<20 |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2798 AB | 07 15 43.781 | -10 40 15.5 | 4.0 | 143 | 10.92 | 11.13 | 13 | 7 | | 2 | -1 | | | | 2010 | | | WDS 07157-1040, WDS data as of August 2017. |
| | 108.932399 | -10.670942 | 3.989 | 141.786 | 10.90 | 11.30 | -2.80 | 1.90 | 1.56 | -2.00 | 4.50 | 3.25 | 0.96 | Hg | 2015.000 | CCCB | 6 | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 108.932411 | -10.670950 | 4.012 | 142.276 | | | | | | | | | 0.20 | Eu | 2000.018 | | | UCAC5. |
| | 108.932371 | -10.670958 | 4.071 | 140.685 | 10.92 | 11.29 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2802 AB | 07 16 06.419 | -01 37 34.9 | 4.1 | 268 | 11.35 | 12.61 | 0 | -3 | | -41 | 14 | | | | 2010 | | | WDS 07161-0138, WDS data as of August 2017. |
| | 109.026739 | -1.626434 | 4.085 | 270.212 | 11.11 | 11.78 | -1.20 | 1.30 | 1.63 | -2.60 | 0.70 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.026744 | -1.626439 | 4.065 | 270.340 | | | | | | | | | 0.20 | Eu | 2000.104 | | | UCAC5. |
| | 109.026800 | -1.626428 | 4.184 | 269.452 | 11.17 | 11.84 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2804 AB | 07 16 37.310 | -10 05 37.9 | 5.4 | 321 | 12.83 | 11.52 | 20 | -32 | | -3 | -3 | | | | 2010 | | | WDS 07167-1007, WDS data as of August 2017. |
| | 109.155359 | -10.093899 | 5.413 | 321.877 | 11.42 | 11.71 | -1.90 | -3.00 | 1.56 | -1.10 | -3.10 | 1.56 | 0.96 | Hg | 2015.000 | CBCC | **12** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.155366 | -10.093886 | 5.421 | 321.800 | | | | | | | | | 0.20 | Eu | 2000.024 | | | UCAC5. |
| | 109.155346 | -10.093936 | 5.341 | 322.730 | 11.56 | 11.90 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |
| J 2809 AB | 07 18 39.419 | -06 56 24.5 | 5.2 | 213 | 13.00 | 13.00 | 14 | 21 | | | | | | | 2000 | | | WDS 07187-0657, WDS data as of August 2017. |
| | 109.664283 | -6.940170 | 5.325 | 213.019 | 13.02 | 14.05 | -3.60 | -0.30 | 1.41 | -6.20 | -6.40 | 1.98 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.664298 | -6.940169 | 5.229 | 213.202 | | | | | | | | | 0.20 | Eu | 2000.069 | | | UCAC5. |
| | 109.664313 | -6.940167 | 5.355 | 213.023 | 12.90 | 14.17 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2810 AB | 07 19 30.250 | -03 03 55.9 | 5.6 | 165 | 11.50 | 12.00 | -3 | 14 | | 15 | 6 | | | | 2016 | | | WDS 07196-0303, WDS data as of August 2017. |
| | 109.876051 | -3.065576 | 5.636 | 164.292 | 12.19 | 13.31 | -0.10 | 0.50 | 1.56 | -5.30 | -2.70 | 1.84 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 109.876052 | -3.065578 | 5.612 | 163.409 | | | | | | | | | 0.20 | Eu | 2000.096 | | | UCAC5. |
| | 109.876038 | -3.065544 | 5.769 | 164.178 | 12.03 | 13.37 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2816 AB | 07 25 32.440 | -03 26 01.4 | 5.5 | 316 | 13.10 | 13.70 | 5 | 2 | | -15 | 0 | | | | 2010 | | | WDS 07255-0326, WDS data as of August 2017. |
| | 111.385159 | -3.433748 | 5.590 | 315.852 | 13.21 | 13.84 | -2.60 | 1.70 | 1.70 | 1.00 | -3.10 | 1.84 | 0.96 | Hg | 2015.000 | CACC | **15** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 111.385170 | -3.433755 | 5.679 | 315.973 | | | | | | | | | 0.20 | Eu | 2000.096 | | | UCAC5. |
| | 111.385138 | -3.433739 | 5.685 | 311.810 | 13.27 | 13.98 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. SNR B<20 |
| J 2817 AB | 07 26 31.249 | -02 33 52.4 | 4.7 | 332 | 10.20 | 10.40 | 22 | 11 | | -8 | 22 | | | | 2012 | | | WDS 07263-0233, WDS data as of August 2017. |
| | 111.630305 | -2.564577 | 4.874 | 331.799 | 11.90 | 12.11 | 12.10 | -3.10 | 1.70 | 11.80 | -3.40 | 1.70 | 0.96 | Hg | 2015.000 | AACB | **78** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 111.630255 | -2.564564 | 4.878 | 331.853 | | | | | | | | | 0.20 | Eu | 2000.099 | | | UCAC5. |
| | 111.630317 | -2.564456 | 4.635 | 327.981 | 11.83 | 12.08 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Good CPM candidate, although motion is minimal and UCAC5 error rates are high relative to the motion of the secondary. No parallax for either of the components is listed in GAIA DR1. |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2822 AB | 07 27 15.869 | -03 48 35.9 | 5.7 | 285 | 12.00 | 13.00 | -10 | -2 | | | | | | | 2010 | | | WDS 07274-0348, WDS data as of August 2017. |
| | 111.816153 | -3.809994 | 5.640 | 285.521 | 12.42 | 13.44 | -4.40 | 0.60 | 1.70 | -3.50 | 4.10 | 1.84 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 111.816171 | -3.809997 | 5.640 | 284.993 | | | | | | | | | 0.20 | Eu | 2000.094 | | | UCAC5. |
| | 111.816238 | -3.810067 | 6.113 | 285.271 | 12.55 | 13.59 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2823 AB | 07 27 35.360 | -07 01 22.0 | 5.0 | 96 | 13.00 | 14.00 | -5 | -18 | | 18 | -7 | | | | 2010 | | | WDS 07277-0701, WDS data as of August 2017. |
| | 111.897376 | -7.022819 | 4.814 | 93.550 | 13.04 | 13.87 | 5.90 | -12.20 | 1.70 | -3.30 | 2.10 | 2.12 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 111.897352 | -7.022768 | 4.967 | 95.903 | | | | | | | | | 0.20 | Eu | 2000.070 | | | UCAC5. |
| | 111.897483 | -7.022744 | 4.565 | 95.910 | 13.27 | 14.16 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2825 AB | 07 28 02.160 | -07 44 18.5 | 6.5 | 27 | 12.70 | 12.80 | -13 | -24 | | 17 | -1 | | | | 2010 | | | WDS 07279-0745, WDS data as of August 2017. |
| | 112.009028 | -7.738526 | 6.545 | 25.845 | 12.66 | 12.50 | -1.40 | -1.90 | 1.70 | -4.20 | 2.40 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 112.009034 | -7.738519 | 6.506 | 26.428 | | | | | | | | | 0.20 | Eu | 2000.069 | | | UCAC5. |
| | 112.009042 | -7.738561 | 6.529 | 25.772 | 12.80 | 12.84 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2831 AB | 07 32 23.409 | -04 31 02.8 | 4.4 | 139 | 12.68 | 13.10 | -73 | 66 | | | | | | | 2000 | | | WDS 07323-0431, WDS data as of August 2017. |
| | 113.097593 | -4.517491 | 4.399 | 139.221 | 12.04 | 13.05 | -9.60 | -10.60 | 1.70 | -11.50 | -11.80 | 1.70 | 0.96 | Hg | 2015.000 | ACCB | **31** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.097633 | -4.517447 | 4.406 | 138.781 | | | | | | | | | 0.20 | Eu | 2000.088 | | | UCAC5. |
| | 113.097579 | -4.517500 | 4.312 | 140.350 | 12.07 | 13.04 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2833 AB | 07 33 05.229 | -04 29 55.9 | 7.3 | 84 | 12.57 | 12.57 | -15 | -5 | | 2 | -4 | | | | 2005 | | | WDS 07330-0430, WDS data as of August 2017. |
| | 113.271805 | -4.498822 | 7.357 | 83.178 | 11.86 | 12.76 | -5.36 | 4.97 | 5.28 | 3.21 | 3.79 | 5.28 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from comparison with 2MASS positions. |
| | 113.271808 | -4.498836 | | | | | -0.80 | 3.40 | 1.41 | | | | 0.20 | Eu | 2000.089 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 113.271808 | -4.498917 | 7.603 | 82.442 | 11.63 | 12.73 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2834 AB | 07 33 48.260 | -04 31 29.1 | 5.3 | 204 | 11.80 | 11.80 | -10 | 3 | | -9 | 5 | | | | 2000 | | | WDS 07337-0431, WDS data as of August 2017. |
| | 113.451050 | -4.524794 | 5.163 | 203.971 | 12.62 | 12.94 | -7.50 | -3.50 | 1.70 | -3.50 | 2.80 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.451082 | -4.524779 | 5.275 | 204.156 | | | | | | | | | 0.20 | Eu | 2000.089 | | | UCAC5. |
| | 113.451029 | -4.524839 | 5.036 | 205.123 | 12.74 | 12.90 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2836 AB | 07 34 00.750 | -09 34 51.6 | 6.1 | 53 | 11.89 | 12.83 | -14 | -11 | | 2 | 3 | | | | 2010 | | | WDS 07341-0934, WDS data as of August 2017. |
| | 113.502873 | -9.581243 | 6.313 | 51.360 | 11.67 | 12.77 | -4.40 | -1.50 | 1.70 | -4.90 | 4.80 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.502891 | -9.581236 | 6.260 | 52.072 | | | | | | | | | 0.20 | Eu | 2000.058 | | | UCAC5. |
| | 113.502892 | -9.581250 | 6.192 | 52.025 | 11.92 | 13.16 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2837 AB | 07 34 59.230 | -04 58 50.3 | 8.9 | 186 | 11.00 | 12.50 | -1 | 8 | | 0 | 19 | | | | 2000 | | | WDS 07350-0457, WDS data as of August 2017. |
| | 113.746776 | -4.980662 | 8.990 | 185.871 | 12.06 | 13.46 | -1.30 | 5.40 | 1.41 | 1.00 | -0.40 | 1.41 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 113.746781 | -4.980684 | 8.909 | 186.149 | | | | | | | | | 0.20 | Eu | 2000.092 | | | UCAC5. |
| | 113.746771 | -4.980661 | 9.245 | 185.658 | 12.13 | 13.38 | | | | | | | 0.70 | C | 2016.107 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2839 AB | 07 36 25.890 | -03 34 42.3 | 8.6 | 271 | 11.80 | 13.00 | 4 | 2 | | -18 | 15 | | | | 2010 | | | WDS 07365-0334, WDS data as of August 2017. |
| | 114.107918 | -3.578466 | 8.653 | 270.582 | 12.29 | 13.33 | 2.30 | -0.50 | 1.41 | -4.40 | -1.30 | 1.41 | 0.96 | Hg | 2015.000 | BCCC | **24** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 114.107908 | -3.578464 | 8.554 | 270.678 | | | | | | | | | 0.20 | Eu | 2000.098 | | | UCAC5. |
| | 114.107854 | -3.578506 | 8.459 | 270.203 | 12.08 | 13.26 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2842 AB | 07 37 52.429 | -05 21 10.0 | 9.2 | 342 | 11.28 | 11.82 | -6 | 2 | | -4 | -2 | | | | 2014 | | | WDS 07379-0522, WDS data as of August 2017. |
| | 114.468562 | -5.352872 | 9.508 | 339.886 | 12.04 | 12.09 | 19.70 | -17.50 | 1.98 | -7.60 | -2.80 | 1.84 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 114.468480 | -5.352800 | 9.166 | 341.808 | | | | | | | | | 0.20 | Eu | 2000.088 | | | UCAC5. |
| | 114.468458 | -5.352794 | 9.269 | 341.494 | 11.63 | 12.08 | | | | | | | 0.70 | C | 2016.107 | | | iT27 1x3s |
| J 2845 AB | 07 39 33.370 | -10 13 57.4 | 0.6 | 75 | 11.68 | 11.97 | 1 | -2 | | 1 | -2 | | | | 1991 | | | WDS 07396-1013, WDS data as of August 2017. |
| | 114.889058 | -10.232627 | | | 11.23 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 114.889077 | -10.232617 | | | | | -4.40 | -2.40 | 1.70 | | | | 0.20 | Eu | 2000.055 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 114.907938 | -10.208878 | 4.854 | 45.868 | 12.75 | 12.92 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s. Image quality a bit questionable - yet it seems clear that the last "precise" WDS measurement was for a wrong object nearby. Obs1 in the WDS shows a component at 3" and 45 degrees. Secondary not identified in UCAC5, 2MASS, URAT1, and GAIA DR1 at either the WDS Obs1 or Obs2 positions, or at the Astrometrica position. |
| J 2846 AB | 07 39 50.800 | -09 26 38.8 | 6.8 | 158 | 12.70 | 12.82 | -23 | 10 | -2 | 2 | | | | | 2010 | | | WDS 07399-0926, WDS data as of August 2017. |
| | 114.961078 | -9.443865 | 7.005 | 155.693 | 12.51 | 12.80 | -17.00 | 9.30 | 1.70 | -2.10 | 2.70 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 114.961150 | -9.443903 | 6.826 | 157.059 | | | | | | | | | 0.20 | Eu | 2000.061 | | | UCAC5. |
| | 114.961079 | -9.443889 | 6.949 | 154.658 | 12.48 | 12.92 | | | | | | | 0.70 | C | 2016.164 | | | iT27 1x3s |
| J 2850 AB | 07 43 36.229 | -02 28 16.3 | 6.7 | 239 | 11.80 | 12.30 | 14 | 4 | | -13 | 2 | | | | 2016 | | | WDS 07438-0227, WDS data as of August 2017. |
| | 115.900974 | -2.471199 | 6.862 | 238.819 | 12.50 | 13.83 | -2.60 | 1.10 | 1.70 | -7.60 | 3.50 | 1.98 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 115.900985 | -2.471204 | 6.818 | 238.235 | | | | | | | | | 0.20 | Eu | 2000.113 | | | UCAC5. |
| | 115.900983 | -2.471192 | 6.869 | 237.604 | 12.66 | 13.92 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2854 AB | 07 50 29.629 | -02 06 54.4 | 6.9 | 70 | 11.00 | 11.20 | -13 | -12 | | 10 | -10 | | | | 2016 | | | WDS 07506-0205, WDS data as of August 2017. |
| | 117.623436 | -2.115156 | 6.908 | 69.590 | 12.65 | 12.88 | -6.30 | -8.50 | 1.70 | -7.10 | -8.80 | 1.70 | 0.96 | Hg | 2015.000 | ABCB | **62** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 117.623462 | -2.115121 | 6.920 | 69.593 | | | | | | | | | 0.20 | Eu | 2000.115 | | | UCAC5. |
| | 117.623438 | -2.115183 | 6.956 | 68.583 | 12.65 | 12.81 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Possible CPM candidate. Motion is relatively minimal in comparison to error rate. No parallax for either component in GAIA DR1. |
| J 2858 AB | 07 55 25.900 | -07 19 10.1 | 7.7 | 18 | 10.00 | 11.70 | -19 | -41 | | -8 | 2 | | | | 2012 | | | WDS 07555-0720, WDS data as of August 2017. |
| | 118.857912 | -7.319481 | 7.621 | 18.358 | 12.17 | 13.51 | -6.30 | -0.50 | 1.70 | -7.90 | -1.70 | 1.84 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 118.857939 | -7.319479 | 7.645 | 18.488 | | | | | | | | | 0.20 | Eu | 2000.081 | | | UCAC5. |
| | 118.857829 | -7.319489 | 7.578 | 20.455 | 12.23 | 13.39 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. SNR B<20 |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2859 | 07 57 51.060 | -03 42 30.2 | 2.8 | 133 | 10.10 | 10.10 | -23 | -23 | | 5 | 7 | | | | 2016 | | | WDS 07578-0342, WDS data as of August 2017. |
| | 119.462623 | -3.708507 | 2.974 | 132.467 | 11.73 | 11.60 | – 32.50 | -26.90 | 1.70 | -7.20 | 3.70 | 1.70 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are GAIA DR1 Gmags. 2MASS and URAT1 don't identify the the primary, so there are no J-K-H mags. The G-J-H-K magnitude value for the secondary is 12.197. PM data from UCAC5 catalog |
| | 119.462758 | -3.708395 | 3.060 | 143.596 | | | | | | | | | 0.20 | Eu | 2000.107 | | | UCAC5. |
| | 119.462654 | -3.708578 | 2.797 | 130.061 | 11.83 | 11.83 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2860 | 07 57 47.450 | -04 56 25.0 | 5.6 | 253 | 13.50 | 14.20 | -9 | 2 | | 21 | 6 | | | | 2010 | | | WDS 07579-0455, WDS data as of August 2017. |
| | 119.447719 | -4.940294 | 5.599 | 254.121 | 13.49 | 13.82 | -4.50 | 3.60 | 1.77 | -5.50 | 0.70 | 1.98 | 0.96 | Hg | 2015.000 | CACB | **16** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 119.447738 | -4.940309 | 5.572 | 254.500 | | | | | | | | | 0.20 | Eu | 2000.099 | | | UCAC5. |
| | 119.447675 | -4.940319 | 5.599 | 252.860 | 13.52 | 13.91 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2864 AB | 08 04 31.609 | -09 06 55.8 | 4.9 | 56 | 12.30 | 12.40 | -24 | -10 | | 14 | 11 | | | | 2010 | | | WDS 08045-0905, WDS data as of August 2017. |
| | 121.131723 | -9.115503 | 5.014 | 56.206 | 13.33 | 13.09 | 3.80 | -3.50 | 1.70 | -0.30 | 2.40 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 121.131707 | -9.115489 | 5.017 | 57.428 | | | | | | | | | 0.20 | Eu | 2000.063 | | | UCAC5. |
| | 121.132663 | -9.114842 | 4.830 | 61.290 | 13.54 | 13.38 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s. Image quality a bit questionable |
| J 2865 AB | 08 04 33.031 | -09 09 11.7 | 4.6 | 223 | 11.40 | 11.70 | 11.4 | 11.7 | | | | | | | 2017 | | | WDS 08045-0909, WDS data as of August 2017. |
| | 121.137642 | -9.153286 | 4.569 | 223.577 | 11.39 | 12.22 | -2.90 | -3.80 | 1.70 | -2.40 | -0.70 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 121.137654 | -9.153271 | 4.608 | 223.262 | | | | | | | | | 0.20 | Eu | 2000.064 | | | UCAC5. |
| | 121.137579 | -9.153350 | 4.607 | 223.715 | 11.41 | 12.13 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2866 AB | 08 05 38.932 | -04 21 57.6 | 9.5 | 281 | 11.70 | 11.90 | 2 | 2 | | -3 | -3 | | | | 2012 | | | WDS 08058-0420, WDS data as of August 2017. |
| | 121.4147550 | -04.3665058 | 9.367 | 280.201 | 12.45 | 13.26 | -0.73 | 0.54 | 5.74 | -1.05 | -11.07 | 5.80 | 0.2 | Eu | 2013.597 | CCCC | **6** | URAT1. PM data from position comparison with 2MASS. M1 and M2 are visual estimates from J and K magnitudes. |
| | 121.414747 | -4.366499 | | | 12.79 | | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M1 is visual estimate from G-J-K-H mags. Secondary not identified in GAIA DR1. |
| | 121.414756 | -4.366501 | | | | | -2.20 | 0.40 | 1.70 | | | | 0.20 | Eu | 2000.106 | | | UCAC5. PM data from UCAC5 catalog. Secondary not identified in UCAC5. |
| | 121.414763 | -4.366514 | 9.296 | 280.037 | 12.83 | 13.21 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |
| J 2866 BC | 08 05 38.932 | -04 21 57.6 | 4.9 | 145 | 11.90 | 11.40 | -3 | -3 | | 9 | -6 | | | | 2012 | | | WDS 08058-0420, WDS data as of August 2017. |
| | 121.4121867 | -04.3660450 | 4.594 | 143.993 | 13.26 | 13.88 | -1.05 | -11.07 | 5.80 | -0.25 | 0.71 | 5.96 | 0.2 | Eu | 2013.320 | CCCB | **6** | URAT1. PM data from position comparison with 2MASS. M1 and M2 are visual estimates from J and K magnitudes. |
| | | | | | | 13.93 | | | | | | | 0.96 | Hg | 2015.000 | | | GAIA DR1. M2 is visual estimate from G-J-K-H mags. Primary not identified in GAIA DR1. |
| | | | | | | | | | | -3.40 | 1.20 | 3.70 | 0.20 | Eu | 2000.106 | | | UCAC5. PM data from UCAC5 catalog. Primary not identified in UCAC5. |
| | 121.412213 | -4.366064 | 4.765 | 144.722 | 13.21 | 13.99 | | | | | | | 0.70 | C | 2016.022 | | | iT27 1x3s |

*Table 1 continues on the next page.*

*Table 1 (continued). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 2867 AB | 08 05 52.761 | -06 14 42.4 | 8.7 | 304 | 12.50 | 12.60 | 9 | -2 | | 10 | -5 | | | | 2000 | | | WDS 08059-0614, WDS data as of August 2017. |
| | 121.469848 | -6.245145 | 8.714 | 303.344 | 13.42 | 13.55 | 2.70 | -3.10 | 2.70 | 3.50 | -9.20 | 1.70 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from J and K magnitudes. GAIA DR1 erroneously shows the primary with a Gmag of 19.193. The G-J-H-K magnitude for the secondary is 13.498. PM data from UCAC5 catalog |
| | 121.469836 | -6.245132 | 8.775 | 303.800 | | | | | | | | | 0.20 | Eu | 2000.096 | | | UCAC5. |
| | 121.469817 | -6.245214 | 9.336 | 307.009 | 13.52 | 13.54 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2868 AB | 08 05 56.681 | -06 14 52.1 | 6.5 | 7 | 12.30 | 13.30 | -9 | -4 | | -5 | 15 | | | | 2016 | | | WDS 08060-0614, WDS data as of August 2017. |
| | 121.486156 | -6.247811 | 6.535 | 6.983 | 12.35 | 13.38 | -6.20 | 2.10 | 1.70 | -2.70 | 4.60 | 1.84 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 121.486182 | -6.247820 | 6.491 | 6.569 | | | | | | | | | 0.20 | Eu | 2000.096 | | | UCAC5. |
| | 121.486183 | -6.247858 | 6.784 | 6.562 | 12.31 | 13.35 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s |
| J 2869 AB | 08 08 33.570 | -09 57 44.1 | 7.5 | 210 | 10.19 | 11.00 | 5 | -13 | | | | | | | 2011 | | | WDS 08086-0958, WDS data as of August 2017. |
| | 122.139932 | -9.962303 | 7.445 | 210.267 | 10.28 | 11.46 | 7.10 | -14.50 | 2.69 | 5.80 | -14.10 | 1.70 | 0.96 | Hg | 2015.000 | BBCB | **50** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 122.139903 | -9.962243 | 7.440 | 210.125 | | | | | | | | | 0.20 | Eu | 2000.062 | | | UCAC5. |
| | 122.139917 | -9.962331 | 7.260 | 211.806 | 9.98 | 11.42 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| | | | | | | | | | | | | | | | | | | Possible CPM candidate. Motion is somewhat minimal in comparison to error rate. GAIA DR1 shows a parallax of 2.88 (1332.511 LY) for the primary, none listed for the secondary. |
| J 2870 AB | 08 08 18.178 | -09 16 30.4 | 6.6 | 132 | 12.60 | 14.10 | -14 | 5 | | 1 | 12 | | | | 2010 | | | WDS 08088-0917, WDS data as of August 2017. |
| | 122.075761 | -9.275099 | 6.531 | 131.320 | 12.70 | 14.30 | -4.10 | 3.40 | 1.70 | -4.70 | 3.70 | 1.98 | 0.96 | Hg | 2015.000 | ACCC | **30** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 122.075778 | -9.275114 | 6.541 | 131.289 | | | | | | | | | 0.20 | Eu | 2000.063 | | | UCAC5. |
| | 122.075725 | -9.275053 | 6.567 | 130.560 | 12.71 | 14.29 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |
| J 2871 AB | 08 09 28.779 | -10 47 09.7 | 4.9 | 199 | 12.60 | 12.67 | -7 | 4 | | -8 | -11 | | | | 2010 | | | WDS 08096-1047, WDS data as of August 2017. |
| | 122.369611 | -10.786007 | 5.100 | 197.729 | 12.01 | 12.66 | -8.10 | 0.50 | 1.70 | -10.30 | -0.30 | 1.70 | 0.96 | Hg | 2015.000 | ACCB | **31** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 122.369646 | -10.786009 | 5.079 | 197.422 | | | | | | | | | 0.20 | Eu | 2000.048 | | | UCAC5. |
| | 122.369617 | -10.786044 | 5.076 | 197.920 | 12.11 | 12.75 | | | | | | | 0.70 | C | 2016.096 | | | iT27 1x3s |

*Table 1 concludes on the next page.*

*Table 1 (conclusion). Measurement Results for J objects in Monoceros*

| Name | RA | Dec | Sep | PA | M1 | M2 | pmRA1 | pmDec1 | e_pm1 | pmRA2 | pmDec2 | e_pm2 | Ap | Me | Date | CPM Rat | CPM % | Source/Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J 3230 AB | 07 03 58.899 | -07 09 56.9 | 5.5 | 82 | 10.18 | 12.40 | -8 | -3 | | | | | | | 2000 | | | WDS 07040-0710, WDS data as of August 2017. |
| | 105.995498 | -7.165836 | 5.508 | 82.152 | 10.25 | 12.13 | 1.60 | -1.50 | 1.84 | 0.40 | -0.70 | 3.96 | 0.96 | Hg | 2015.000 | CCCC | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.995491 | -7.165830 | 5.525 | 82.293 | | | | | | | | | 0.20 | Eu | 2000.061 | | | UCAC5. |
| | 105.995504 | -7.165842 | 5.480 | 82.450 | 10.11 | 11.74 | | | | | | | 0.70 | C | 2016.167 | | | iT27 1x3s |
| J 3286 AB | 08 05 50.100 | -06 14 19.6 | 2.8 | 129 | 12.10 | 13.00 | -74 | 76 | | -18 | 10 | | | | 2000 | | | WDS 08058-0614, WDS data as of August 2017. |
| | 121.458678 | -6.238755 | 2.782 | 131.614 | 13.22 | 13.69 | 0.10 | -1.10 | 2.12 | -6.00 | -2.70 | 2.62 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are GAIA DR1 Gmags. 2MASS doesn't identify the secondary, so no G-J-H-K magnitudes are available for it. The G-J-H-K magnitude of the primary is 13.592. PM data from UCAC5 catalog |
| | 121.458678 | -6.238751 | 2.835 | 130.034 | | | | | | | | | 0.20 | Eu | 2000.095 | | | UCAC5. |
| | 121.458746 | -6.238750 | 2.661 | 130.839 | 13.38 | 13.86 | | | | | | | 0.70 | C | 2016.090 | | | iT27 1x3s. Touching star disks |
| J 3309 AB | 07 03 32.361 | -08 40 29.6 | 4.0 | 52 | 12.00 | 13.50 | -57 | -45 | | 19 | 12 | | | | 2000 | | | WDS 07035-0838, WDS data as of August 2017. |
| | 105.884871 | -8.674934 | 3.949 | 51.040 | 12.75 | 13.69 | 2.80 | -2.00 | 1.56 | -4.20 | -2.10 | 1.98 | 0.96 | Hg | 2015.000 | CCCB | **6** | GAIA DR1. M1 and M2 are visual estimates from G-J-K-H mags. PM data from UCAC5 catalog |
| | 105.884860 | -8.674926 | 4.031 | 51.960 | | | | | | | | | 0.20 | Eu | 2000.035 | | | UCAC5. |
| | 105.884904 | -8.674958 | 3.662 | 50.289 | 12.72 | 13.89 | | | | | | | 0.70 | C | 2016.172 | | | iT27 1x3s |

Explanations regarding the content of the Notes column:

- "Touching star disks" indicates that the rims of the star disks are touching and that the measurement results might be a bit less precise than with clearly separated star disks
- "Touching/Overlapping star disks" indicates that the star disks overlap to the degree of an elongation and that the measurement results is probably less precise than with clearly separated star disks
- "SNR <20" indicates that the measurement result might be a bit less precise than desired due to a low SNR value but this is already included in the calculation of the magnitude error range estimation
- "SNR <10" indicates that the measurement result is probably a bit less precise than desired due to a very low SNR value but this is already included in the calculation of the magnitude error range estimation
- "Image quality questionable" or similar indicates rather large average errors for the reference stars used for plate solving for different reasons (mostly atmospheric influences). But this is at least to some degree already included in the calculation of the error range estimation

*(Continued from page 610)*

Knapp, Wilfried R. A.; Nanson, John, 2017, "A New Concept for Counter-Checking of Assumed CPM Pairs, *JDSO*, **13** (1), 31-51.

Knapp, Wilfried R. A., 2018, "A New Concept for Counter-Checking of Assumed Binaries", *JDSO*, **14** (3), 487-491.

Knapp, Wilfried R. A.; Nanson, John, 2018, Estimating Visual Magnitudes for Wide Double Stars, *JDSO*, **14** (3), 496-502.

## Appendix A

### *CPM rating scheme according to Knapp/Nanson 2017 with extensions*

Four rating factors are used: Proper motion vector direction, proper motion vector length, size of position error in relation to proper motion vector length and relationship of proper motion speed to angular separation:

- Proper motion vector direction ratings: "A" for within the error range of identical direction, "B" for similar direction within the double error range, "C" for direction within the triple error range and "D" for outside.
- Proper motion vector length ratings: "A" for within the error range of identical length, "B" for similar length within the double error range, "C" for length within the triple error range and "D" for outside.
- Error size ratings: "A" for error size of less than 5% of the proper motion vector length, "B" for less than 10%, "C" for less than 15% and "D" for a larger error size.
- Relationship PM speed to angular separation: "A" for less than 100 years, "B" for less than 1,000 years, "C" for less than 10,000 and "D" for above.

To compensate for excessively large position errors resulting in an "A" rating despite rather high deviations an absolute upper limit is applied regardless of calculated error size:

- Proper motion vector direction: Max. 2.86° difference for an "A".
- Proper motion vector length: Max. 5% difference for an "A".

The letter based rating result is then transformed into an estimated probability for being physical given in the column CPM % (Knapp 2018).

**Jonckheere Double Star Photometry – Part XII: Mon I**

## Appendix B

Table 2 with positions for both components, astrometry measurement errors, signal to noise ratio and photometry measurement errors

*Table 2.*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | A | 07 02 18.785 | 10 30 48.05 | 0.06 | 0.05 | 0.078 | 1.382 | 0.101 | 75.600 | 2016.022 | iT27 1x3s |
| | B | 07 02 18.567 | 10 30 48.43 | | | | | 0.102 | 57.870 | | |
| 40 | A | 06 41 49.398 | -00 15 59.06 | 0.08 | 0.08 | 0.113 | 2.227 | 0.082 | 55.980 | 2016.096 | iT27 1x3s. Touching star disks |
| | B | 06 41 49.582 | -00 15 59.98 | | | | | 0.088 | 28.320 | | |
| 55 | A | 06 49 36.564 | 01 59 56.45 | 0.07 | 0.08 | 0.106 | 2.448 | 0.081 | 90.540 | 2016.090 | iT27 1x3s. Touching star disks |
| | B | 06 49 36.599 | 01 59 54.02 | | | | | 0.081 | 106.160 | | |
| 56 | A | 06 52 37.623 | 03 14 18.22 | 0.07 | 0.07 | 0.099 | - | 0.070 | 299.910 | 2016.022 | iT27 1x3s. Overlapping star disks. A and B too bright for resolution |
| | B | | | | | | | - | | | |
| 60 | A | 07 13 14.050 | -02 38 36.54 | 0.08 | 0.09 | 0.120 | - | 0.070 | 176.960 | 2016.107 | iT27 1x3s. Heavily overlapping star disks. Both components too bright for resolution |
| | B | | | | | | | - | | | |
| 65 | A | 07 44 12.590 | -01 15 12.71 | 0.06 | 0.05 | 0.078 | - | 0.070 | 283.480 | 2016.022 | iT27 1x3s. Heavily overlapping star disks. Both components too bright for clear resolution |
| | B | | | | | | | - | | | |
| 66 | A | 07 47 40.881 | -00 54 23.46 | 0.07 | 0.08 | 0.106 | 1.579 | 0.060 | 192.680 | 2016.022 | iT27 1x3s |
| | B | 07 47 40.811 | -00 54 27.17 | | | | | 0.061 | 101.430 | | |
| 187 | A | 06 06 38.711 | -04 11 37.44 | 0.10 | 0.10 | 0.141 | 0.271 | - | | 2016.164 | iT27 1x3s. Primary star disc saturated |
| | B | 06 06 39.848 | -04 12 02.04 | | | | | 0.081 | 106.670 | | |
| 189 | A | 07 45 34.342 | -05 58 30.00 | 0.09 | 0.12 | 0.150 | - | 0.081 | 86.400 | 2016.096 | iT27 1x3s. No resolution of B |
| | B | | | | | | | - | | | |
| 265 | A | 06 35 46.322 | 05 07 23.08 | 0.07 | 0.07 | 0.099 | 1.387 | 0.070 | 138.600 | 2016.022 | iT27 1x3s |
| | B | 06 35 46.074 | 05 07 21.35 | | | | | 0.071 | 86.630 | | |
| 266 | A | 06 36 41.070 | 03 18 56.73 | 0.07 | 0.07 | 0.099 | 1.278 | 0.070 | 191.440 | 2016.022 | iT27 1x3s |
| | B | 06 36 41.097 | 03 18 52.31 | | | | | 0.072 | 63.690 | | |
| 314 | A | 06 47 07.320 | -03 51 30.57 | 0.09 | 0.09 | 0.127 | 2.034 | 0.071 | 103.490 | 2016.164 | iT27 1x3s |
| | B | 06 47 07.496 | -03 51 28.14 | | | | | 0.079 | 28.830 | | |
| 348 | A | 06 29 49.140 | 11 07 51.12 | 0.11 | 0.10 | 0.149 | 2.354 | 0.083 | 52.150 | 2016.022 | iT27 1x3s |
| | B | 06 29 49.293 | 11 07 48.29 | | | | | 0.084 | 42.130 | | |
| 349 | A | 06 32 59.378 | 04 56 22.54 | 0.10 | 0.10 | 0.141 | 1.483 | 0.080 | 207.150 | 2016.022 | iT27 1x3s |
| | B | 06 32 59.737 | 04 56 21.51 | | | | | 0.082 | 67.980 | | |
| 350 | A | 06 35 41.739 | 00 29 31.93 | 0.06 | 0.05 | 0.078 | 1.318 | 0.096 | 32.960 | 2016.096 | iT27 1x3s |
| | B | 06 35 41.954 | 00 29 30.87 | | | | | 0.100 | 24.720 | | |
| 351 | A | 06 37 58.395 | 11 33 19.20 | 0.06 | 0.06 | 0.085 | 1.320 | 0.081 | 90.180 | 2016.022 | iT27 1x3s |
| | B | 06 37 58.270 | 11 33 16.01 | | | | | 0.090 | 25.960 | | |
| 352 | A | 06 38 40.002 | -08 15 37.92 | 0.08 | 0.08 | 0.113 | 1.454 | 0.070 | 165.090 | 2016.172 | iT27 1x3s |
| | B | 06 38 40.302 | -08 15 38.14 | | | | | 0.073 | 54.810 | | |
| 354 | A | 06 53 51.789 | 01 43 28.06 | 0.08 | 0.07 | 0.106 | 1.025 | 0.071 | 106.070 | 2016.090 | iT27 1x3s |
| | B | 06 53 51.395 | 01 43 27.40 | | | | | 0.073 | 53.740 | | |
| 360 | A | 07 05 11.295 | 00 54 00.69 | 0.07 | 0.09 | 0.114 | 1.779 | 0.072 | 62.870 | 2016.090 | iT27 1x3s |
| | B | 07 05 11.416 | 00 54 03.88 | | | | | 0.073 | 49.590 | | |
| 363 | A | 07 16 02.840 | -06 36 52.15 | 0.08 | 0.09 | 0.120 | - | 0.090 | 142.170 | 2016.164 | iT27 1x3s. Hint of elongation but no resolution of B |
| | B | | | | | | | - | | | |
| 364 | A | 07 16 09.530 | -06 34 38.80 | 0.08 | 0.09 | 0.120 | 1.338 | 0.090 | 148.520 | 2016.164 | iT27 1x3s |
| | B | 07 16 09.409 | -06 34 33.97 | | | | | 0.095 | 36.040 | | |
| 365 | A | 07 17 17.126 | -06 35 27.31 | 0.10 | 0.11 | 0.149 | 4.105 | 0.083 | 53.040 | 2016.164 | iT27 1x3s. Touching star disks. B barely resolved. SNR B<10 |
| | B | 07 17 16.987 | -06 35 27.27 | | | | | 0.152 | 7.880 | | |
| 417 | A | 07 40 11.870 | -08 56 18.82 | 0.11 | 0.12 | 0.163 | - | 0.110 | 110.850 | 2016.164 | iT27 1x3s. Slightest hint of elongtion but no resolution of B |
| | B | | | | | | | - | | | |
| 595 | A | 06 26 24.319 | 11 27 47.67 | 0.10 | 0.11 | 0.149 | 1.745 | 0.130 | 101.610 | 2016.022 | iT27 1x3s |
| | B | 06 26 24.540 | 11 27 51.31 | | | | | 0.131 | 88.080 | | |
| 595 | A | 06 26 24.319 | 11 27 47.67 | 0.10 | 0.11 | 0.149 | 0.195 | 0.130 | 101.610 | 2016.022 | iT27 1x3s |
| | C | 06 26 21.627 | 11 27 28.94 | | | | | 0.130 | 111.280 | | |

*Table 2 continues on the next page.*

# Jonckheere Double Star Photometry – Part XII: Mon I

*Table 2 (continued).*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 596 | A | 06 41 03.809 | 02 14 21.38 | 0.08 | 0.08 | 0.113 | 1.349 | 0.071 | 107.520 | 2016.090 | iT27 1x3s |
| | B | 06 41 04.040 | 02 14 24.71 | | | | | 0.071 | 104.830 | | |
| 597 | A | 06 41 21.634 | 02 06 05.72 | 0.08 | 0.10 | 0.128 | 1.449 | 0.080 | 159.900 | 2016.090 | iT27 1x3s |
| | B | 06 41 21.904 | 02 06 08.76 | | | | | 0.081 | 119.730 | | |
| 659 | A | 06 28 40.543 | 04 52 47.38 | 0.08 | 0.07 | 0.106 | 3.233 | 0.061 | 101.810 | 2016.022 | iT27 1x3s. Touching/ overlapping star disks |
| | B | 06 28 40.430 | 04 52 46.55 | | | | | 0.063 | 61.070 | | |
| 660 | A | 06 28 40.728 | 04 50 12.05 | 0.08 | 0.07 | 0.106 | 2.352 | 0.061 | 103.810 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 28 40.899 | 04 50 11.64 | | | | | 0.061 | 90.120 | | |
| 690 | A | 06 30 47.068 | 10 03 46.52 | 0.12 | 0.10 | 0.156 | - | 0.090 | 137.100 | 2016.022 | iT27 1x3s. Hint of elongation but no resolution of B |
| | B | | | | | | | - | | | |
| 691 | A | 06 30 52.422 | 04 38 59.80 | 0.08 | 0.09 | 0.120 | - | 0.070 | 190.660 | 2016.022 | iT27 1x3s. Hint of elongation but no resolution of B |
| | B | | | | | | | - | | | |
| 697 | A | 06 43 33.798 | 11 09 04.89 | 0.14 | 0.11 | 0.178 | 5.085 | 0.132 | 45.420 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 43 33.794 | 11 09 02.89 | | | | | 0.140 | 20.360 | | |
| 700 | A | 06 54 44.423 | 10 14 47.61 | 0.08 | 0.08 | 0.113 | 2.281 | 0.062 | 68.680 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 54 44.609 | 10 14 46.88 | | | | | 0.063 | 59.790 | | |
| 723 | A | 06 45 03.407 | 09 58 31.06 | 0.07 | 0.05 | 0.086 | 2.247 | 0.082 | 57.540 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 45 03.551 | 09 58 31.59 | | | | | 0.084 | 43.960 | | |
| 726 | A | 06 46 51.792 | 10 10 01.49 | 0.09 | 0.07 | 0.114 | 2.472 | 0.073 | 50.860 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 46 51.926 | 10 09 59.74 | | | | | 0.072 | 65.120 | | |
| 730 | A | 07 18 20.297 | -02 35 29.75 | 0.08 | 0.10 | 0.128 | 2.666 | 0.073 | 52.000 | 2016.096 | iT27 1x3s. Touching star disks |
| | B | 07 18 20.375 | -02 35 32.24 | | | | | 0.078 | 30.610 | | |
| 733 | A | 08 05 33.439 | -03 46 10.70 | 0.08 | 0.07 | 0.106 | 2.877 | 0.105 | 34.520 | 2016.022 | iT27 1x3s. Touching/ overlapping star disks. SNR B <20 |
| | B | 08 05 33.511 | -03 46 12.52 | | | | | 0.120 | 16.010 | | |
| 741 | A | 06 22 52.531 | -08 12 34.21 | 0.08 | 0.08 | 0.113 | 1.931 | 0.061 | 133.170 | 2016.172 | iT27 1x3s. Touching star disks |
| | B | 06 22 52.757 | -08 12 34.24 | | | | | 0.065 | 44.270 | | |
| 802 | A | 06 46 43.580 | -04 13 36.25 | 0.08 | 0.08 | 0.113 | 1.498 | 0.081 | 115.930 | 2016.164 | iT27 1x3s |
| | B | 06 46 43.781 | -04 13 39.36 | | | | | 0.081 | 71.810 | | |
| 979 | A | 06 30 34.186 | 11 40 00.60 | 0.08 | 0.06 | 0.100 | 2.170 | 0.101 | 84.130 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 30 34.007 | 11 40 00.38 | | | | | 0.103 | 41.860 | | |
| 982 | A | 06 32 22.477 | 03 29 07.96 | 0.07 | 0.07 | 0.099 | 1.695 | 0.061 | 97.930 | 2016.022 | iT27 1x3s. Touching star disks |
| | B | 06 32 22.347 | 03 29 05.24 | | | | | 0.061 | 86.390 | | |
| 984 | A | 06 36 31.298 | 05 19 52.79 | 0.08 | 0.08 | 0.113 | 1.276 | 0.061 | 93.620 | 2016.022 | iT27 1x3s |
| | B | 06 36 31.028 | 05 19 55.88 | | | | | 0.061 | 94.420 | | |
| 993 | A | 06 48 18.805 | 11 37 31.78 | 0.07 | 0.07 | 0.099 | - | 0.095 | 36.310 | 2016.022 | iT27 1x3s. No resolution of B. Has to be fainter than 14.5mag. Estimation from G/J/H/K -mags: 15.25Vmag |
| | B | | | | | | | - | | | |
| 996 | A | 07 00 05.465 | 09 18 26.80 | 0.08 | 0.08 | 0.113 | 1.281 | 0.071 | 118.870 | 2016.022 | iT27 1x3s |
| | B | 07 00 05.692 | 09 18 23.02 | | | | | 0.074 | 47.600 | | |
| 1005 | A | 06 34 00.456 | -04 44 10.00 | 0.08 | 0.09 | 0.120 | 2.400 | 0.100 | 24.530 | 2016.164 | iT27 1x3s. Touching star disks |
| | B | 06 34 00.272 | -04 44 09.17 | | | | | 0.120 | 13.160 | | |
| 1006 | A | 06 34 18.280 | -04 43 40.50 | 0.09 | 0.07 | 0.114 | 2.268 | 0.073 | 53.800 | 2016.164 | iT27 1x3s. Touching star disks |
| | B | 06 34 18.096 | -04 43 39.65 | | | | | 0.079 | 29.470 | | |
| 1057 | A | 06 53 11.854 | -00 12 35.62 | 0.08 | 0.08 | 0.113 | 2.868 | 0.095 | 36.830 | 2016.096 | iT27 1x3s. Touching star disks |
| | B | 06 53 11.944 | -00 12 33.81 | | | | | 0.097 | 30.010 | | |
| 1057 | A | 06 53 11.854 | -00 12 35.62 | 0.08 | 0.08 | 0.113 | 0.573 | 0.095 | 36.830 | 2016.096 | iT27 1x3s |
| | C | 06 53 12.607 | -00 12 34.90 | | | | | 0.092 | 57.570 | | |
| BAL 732 | A | 06 53 11.854 | -00 12 35.62 | 0.08 | 0.08 | 0.113 | 0.285 | 0.095 | 36.830 | 2016.096 | iT27 1x3s. SNR D<20 |
| | D | 06 53 13.063 | -00 12 21.86 | | | | | 0.111 | 16.050 | | |
| BAL 732 | C | 06 53 12.607 | -00 12 34.90 | 0.08 | 0.08 | 0.113 | 0.236 | 0.092 | 57.570 | 2016.096 | iT27 1x3s |
| | E | 06 53 13.853 | -00 12 14.75 | | | | | 0.096 | 31.360 | | |
| 1065 | A | 07 31 08.140 | -03 43 06.31 | 0.07 | 0.08 | 0.106 | 2.232 | 0.075 | 40.600 | 2016.096 | iT27 1x3s. Touching star disks |
| | B | 07 31 08.056 | -03 43 03.89 | | | | | 0.073 | 53.970 | | |
| 1065 | A | 07 31 08.099 | -03 43 05.82 | 0.07 | 0.08 | 0.106 | - | 0.074 | 44.360 | 2016.096 | iT27 1x3s. No resolution of C. Has to be fainter than 14.5mag |
| | C | | | | | | | - | | | |

*Table 2 continues on the next page.*

# Jonckheere Double Star Photometry – Part XII: Mon I

*Table 2 (continued).*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1065 | A | 07 31 08.140 | -03 43 06.31 | 0.07 | 0.08 | 0.106 | 2.232 | 0.075 | 40.600 | 2016.096 | iT27 1x3s. Touching star disks |
| | B | 07 31 08.056 | -03 43 03.89 | | | | | 0.073 | 53.970 | | |
| 1065 | A | 07 31 08.099 | -03 43 05.82 | 0.07 | 0.08 | 0.106 | - | 0.074 | 44.360 | 2016.096 | iT27 1x3s. No resolution of C. Has to be fainter than 14.5mag |
| | C | | | | | | | - | | | |
| 1106 | A | 06 44 28.552 | 10 05 36.80 | 0.08 | 0.07 | 0.106 | - | 0.071 | 95.840 | 2016.022 | iT27 1x3s. No resolution of B. Not even a hint of an elongation |
| | B | | | | | | | - | | | |
| 1467 | A | 07 38 32.089 | -10 03 01.95 | 0.08 | 0.07 | 0.106 | 0.051 | 0.071 | 123.190 | 2016.164 | iT27 1x3s |
| | B | 07 38 40.001 | -10 03 24.47 | | | | | 0.072 | 71.760 | | |
| 1467 | A | 07 38 40.001 | -10 03 24.47 | 0.08 | 0.07 | 0.106 | 0.818 | 0.072 | 71.760 | 2016.164 | iT27 1x3s |
| | C | 07 38 40.303 | -10 03 18.51 | | | | | 0.073 | 48.700 | | |
| 1472 | A | 06 24 15.918 | -07 34 30.37 | 0.11 | 0.11 | 0.156 | 1.048 | 0.091 | 84.500 | 2018.088 | iT24 5x3s |
| | B | 06 24 15.610 | -07 34 23.20 | | | | | 0.100 | 24.680 | | |
| 1474 | A | 06 33 35.687 | -08 10 28.86 | 0.08 | 0.09 | 0.120 | 1.015 | 0.070 | 255.000 | 2016.172 | iT27 1x3s |
| | B | 06 33 35.460 | -08 10 22.96 | | | | | 0.071 | 126.060 | | |
| 1475 | A | 06 42 55.827 | -08 50 18.55 | 0.08 | 0.08 | 0.113 | 0.683 | 0.071 | 111.940 | 2016.172 | iT27 1x3s |
| | B | 06 42 55.389 | -08 50 25.47 | | | | | 0.072 | 64.200 | | |
| 1479 | A | 06 49 16.657 | -04 55 41.34 | 0.08 | 0.08 | 0.113 | 0.925 | 0.091 | 82.370 | 2016.164 | iT27 1x3s |
| | B | 06 49 16.337 | -04 55 36.22 | | | | | 0.092 | 52.560 | | |
| 1481 | A | 06 53 44.864 | -05 34 29.51 | 0.08 | 0.08 | 0.113 | 1.252 | 0.071 | 123.700 | 2016.164 | iT27 1x3s |
| | B | 06 53 45.164 | -05 34 26.91 | | | | | 0.074 | 47.760 | | |
| HJ 2353 | A | 06 53 44.864 | -05 34 29.51 | 0.08 | 0.08 | 0.113 | 0.404 | 0.071 | 123.700 | 2016.164 | iT27 1x3s |
| | C | 06 53 45.403 | -05 34 43.37 | | | | | 0.071 | 90.570 | | |
| 1482 | A | 06 53 31.971 | -09 58 49.01 | 0.08 | 0.09 | 0.120 | 0.826 | 0.070 | 144.280 | 2016.172 | iT27 1x3s |
| | B | 06 53 31.885 | -09 58 40.76 | | | | | 0.070 | 132.120 | | |
| 1483 | A | 06 59 46.664 | -08 42 39.47 | 0.10 | 0.11 | 0.149 | - | 0.071 | 121.230 | 2018.088 | iT24 5x10s. No resolution. B would have to be fainter than 15.5mag to get not resolved - bogus assumed |
| | B | | | | | | | - | | | |
| 1484 | A | 07 01 25.021 | -10 35 44.88 | 0.07 | 0.07 | 0.099 | 1.435 | 0.071 | 78.770 | 2016.172 | iT27 1x3s |
| | B | 07 01 25.253 | -10 35 42.90 | | | | | 0.074 | 42.140 | | |
| DAM 1197 | A | 07 01 25.021 | -10 35 44.88 | 0.07 | 0.07 | 0.099 | 0.629 | 0.071 | 78.770 | 2016.172 | iT27 1x3s |
| | C | 07 01 25.398 | -10 35 37.78 | | | | | 0.088 | 19.650 | | |
| DAM 1197 | A | 07 01 25.021 | -10 35 44.88 | 0.07 | 0.07 | 0.099 | 0.531 | 0.071 | 78.770 | 2016.172 | iT27 1x3s. SNR D<20 |
| | D | 07 01 25.746 | -10 35 44.76 | | | | | 0.092 | 17.600 | | |
| 1485 | A | 07 03 22.312 | -08 44 28.47 | 0.08 | 0.08 | 0.113 | 0.972 | 0.081 | 113.930 | 2016.172 | iT27 1x3s |
| | B | 07 03 22.380 | -08 44 21.88 | | | | | 0.081 | 106.280 | | |
| 1487 | A | 07 12 03.764 | -05 26 43.37 | 0.07 | 0.07 | 0.099 | 1.621 | 0.071 | 111.630 | 2016.164 | iT27 1x3s |
| | B | 07 12 03.840 | -05 26 46.68 | | | | | 0.074 | 44.570 | | |
| 1488 | A | 07 12 04.892 | -05 26 03.75 | 0.07 | 0.08 | 0.106 | 0.706 | 0.072 | 62.510 | 2016.164 | iT27 1x3s |
| | B | 07 12 04.322 | -05 26 05.18 | | | | | 0.076 | 35.670 | | |
| 1496 | A | 07 33 57.837 | -01 41 40.29 | 0.08 | 0.09 | 0.120 | 0.612 | 0.080 | 135.840 | 2016.090 | iT27 1x3s |
| | B | 07 33 57.986 | -01 41 29.24 | | | | | 0.081 | 97.260 | | |
| 1498 | A | 07 34 44.029 | -10 50 40.39 | 0.06 | 0.07 | 0.092 | 0.718 | 0.070 | 173.160 | 2016.167 | iT27 1x3s |
| | B | 07 34 44.059 | -10 50 47.73 | | | | | 0.070 | 131.790 | | |
| 1500 | A | 07 39 15.567 | -08 39 45.50 | 0.08 | 0.08 | 0.113 | 1.008 | 0.062 | 76.570 | 2016.164 | iT27 1x3s |
| | B | 07 39 15.532 | -08 39 51.91 | | | | | 0.069 | 30.930 | | |
| 1504 | A | 07 52 51.710 | -07 58 17.14 | 0.07 | 0.09 | 0.114 | 0.701 | 0.070 | 213.840 | 2016.107 | iT27 1x3s |
| | B | 07 52 51.114 | -07 58 20.05 | | | | | 0.071 | 125.040 | | |
| 1828 | A | 07 04 05.007 | -09 13 23.43 | 0.08 | 0.08 | 0.113 | 1.158 | 0.081 | 105.370 | 2016.172 | iT27 1x3s |
| | B | 07 04 05.073 | -09 13 28.94 | | | | | 0.083 | 48.700 | | |
| 1923 | A | 06 10 31.542 | -04 22 36.51 | 0.08 | 0.07 | 0.106 | 1.141 | 0.071 | 89.880 | 2016.164 | iT27 1x3s |
| | B | 06 10 31.749 | -04 22 32.16 | | | | | 0.072 | 72.790 | | |
| 1944 | A | 06 23 54.612 | 02 00 08.86 | 0.08 | 0.08 | 0.113 | 0.805 | 0.071 | 90.950 | 2016.090 | iT27 1x3s |
| | B | 06 23 54.875 | 02 00 15.88 | | | | | 0.074 | 45.140 | | |
| 1945 | A | 06 27 12.930 | 11 17 55.15 | 0.07 | 0.07 | 0.099 | 0.747 | 0.092 | 53.080 | 2016.022 | iT27 1x3s |
| | B | 06 27 13.446 | 11 17 54.90 | | | | | 0.093 | 50.320 | | |
| 1949 | A | 06 28 22.595 | -04 27 43.94 | 0.07 | 0.08 | 0.106 | 0.121 | 0.080 | 130.010 | 2016.164 | iT27 1x3s |
| | B | 06 28 19.521 | -04 28 04.80 | | | | | 0.081 | 114.810 | | |
| 1949 | B | 06 28 19.521 | -04 28 04.80 | 0.07 | 0.08 | 0.106 | 0.815 | 0.081 | 114.810 | 2016.164 | iT27 1x3s |
| | C | 06 28 19.181 | -04 28 10.28 | | | | | 0.081 | 103.780 | | |
| 1963 | A | 06 37 21.745 | -03 42 10.58 | 0.07 | 0.08 | 0.106 | 0.692 | 0.060 | 145.940 | 2016.164 | iT27 1x3s |
| | B | 06 37 21.250 | -03 42 15.32 | | | | | 0.061 | 113.130 | | |

*Table 2 continues on the next page.*

# Jonckheere Double Star Photometry – Part XII: Mon I

*Table 2 (continued).*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1966 | A | 06 40 17.950 | 02 16 53.87 | 0.09 | 0.07 | 0.114 | 0.567 | 0.071 | 88.930 | 2016.090 | iT27 1x3s |
| | B | 06 40 17.805 | 02 17 05.18 | | | | | 0.076 | 37.610 | | |
| 1967 | A | 06 40 35.089 | 02 17 26.07 | 0.07 | 0.08 | 0.106 | 0.787 | 0.061 | 90.950 | 2016.090 | iT27 1x3s |
| | B | 06 40 35.603 | 02 17 26.79 | | | | | 0.062 | 71.730 | | |
| 1972 | A | 06 44 07.657 | 00 07 00.68 | 0.09 | 0.08 | 0.120 | 1.275 | 0.075 | 38.780 | 2016.096 | iT27 1x3s |
| | B | 06 44 07.407 | 00 06 56.78 | | | | | 0.080 | 27.400 | | |
| 1977 | A | 06 56 35.868 | 04 12 58.79 | 0.07 | 0.08 | 0.106 | 0.612 | 0.070 | 178.500 | 2016.022 | iT27 1x3s |
| | B | 06 56 36.037 | 04 12 49.17 | | | | | 0.073 | 55.770 | | |
| 1978 | A | 06 56 38.041 | 03 18 07.76 | 0.07 | 0.07 | 0.099 | 1.004 | 0.070 | 218.250 | 2016.022 | iT27 1x3s |
| | B | 06 56 37.665 | 03 18 07.29 | | | | | 0.071 | 88.930 | | |
| 1987 | A | 07 02 36.906 | 02 50 16.71 | 0.08 | 0.09 | 0.120 | 1.150 | 0.070 | 138.600 | 2016.022 | iT27 1x3s |
| | B | 07 02 36.507 | 02 50 16.21 | | | | | 0.071 | 77.360 | | |
| 1988 | A | 07 02 41.279 | 02 50 25.43 | 0.08 | 0.09 | 0.120 | 0.825 | 0.071 | 120.860 | 2016.022 | iT27 1x3s |
| | B | 07 02 40.823 | 02 50 20.61 | | | | | 0.071 | 89.360 | | |
| 1995 | A | 06 27 37.744 | 00 37 12.28 | 0.06 | 0.06 | 0.085 | 0.493 | 0.074 | 46.900 | 2016.096 | iT27 1x3s |
| | B | 06 27 38.263 | 00 37 06.24 | | | | | 0.085 | 22.150 | | |
| 2006 | A | 06 40 35.791 | -00 39 35.81 | 0.08 | 0.09 | 0.120 | 1.013 | 0.071 | 106.150 | 2016.096 | iT27 1x3s |
| | B | 06 40 36.164 | -00 39 39.69 | | | | | 0.071 | 75.050 | | |
| 2010 | A | 07 02 47.368 | -04 34 31.98 | 0.08 | 0.09 | 0.120 | 1.104 | 0.070 | 163.440 | 2016.164 | iT27 1x3s |
| | B | 07 02 47.772 | -04 34 30.38 | | | | | 0.071 | 116.670 | | |
| 2024 | A | 06 42 13.754 | -00 47 49.77 | 0.08 | 0.08 | 0.113 | 2.947 | 0.082 | 57.940 | 2016.096 | iT27 1x3s. Touching star disks |
| | B | 06 42 13.850 | -00 47 48.11 | | | | | 0.082 | 54.660 | | |
| 2025 | A | 06 44 02.738 | -00 57 07.07 | 0.13 | 0.12 | 0.177 | 2.390 | 0.113 | 42.860 | 2018.088 | iT24 5x3s |
| | B | 06 44 02.614 | -00 57 10.88 | | | | | 0.119 | 24.120 | | |
| 2027 | A | 06 47 19.439 | 10 06 01.53 | 0.08 | 0.08 | 0.113 | 1.338 | 0.081 | 75.460 | 2016.022 | iT27 1x3s |
| | B | 06 47 19.112 | 10 06 01.15 | | | | | 0.085 | 37.170 | | |
| 2427 | A | 06 24 48.317 | 00 04 29.97 | 0.07 | 0.07 | 0.099 | 1.703 | 0.064 | 45.480 | 2016.096 | iT27 1x3s |
| | B | 06 24 48.208 | 00 04 32.87 | | | | | 0.070 | 28.900 | | |
| 2432 | A | 06 41 51.289 | 00 06 55.21 | 0.07 | 0.07 | 0.099 | 1.917 | 0.083 | 48.880 | 2016.096 | iT27 1x3s |
| | B | 06 41 51.262 | 00 06 52.28 | | | | | 0.086 | 34.350 | | |
| 2434 | A | 06 45 32.623 | 04 23 38.19 | 0.08 | 0.06 | 0.100 | 0.873 | 0.060 | 236.390 | 2016.022 | iT27 1x3s |
| | B | 06 45 32.234 | 04 23 41.22 | | | | | 0.061 | 96.870 | | |
| 2446 | A | 06 53 46.986 | 10 06 56.62 | 0.08 | 0.08 | 0.113 | 2.591 | 0.072 | 62.280 | 2016.022 | iT27 1x3s |
| | B | 06 53 47.145 | 10 06 55.76 | | | | | 0.074 | 45.370 | | |
| 2447 | A | 06 53 45.182 | -10 52 01.56 | 0.08 | 0.07 | 0.106 | 1.621 | 0.061 | 112.770 | 2016.172 | iT27 1x3s |
| | B | 06 53 44.927 | -10 52 01.56 | | | | | 0.062 | 68.850 | | |
| 2450 | A | 07 03 03.417 | -00 28 21.41 | 0.09 | 0.08 | 0.120 | 1.979 | 0.072 | 65.100 | 2016.096 | iT27 1x3s. Touching star disks. SNR B<20 |
| | B | 07 03 03.630 | -00 28 22.80 | | | | | 0.092 | 17.530 | | |
| 2453 | A | 07 07 53.635 | 00 48 48.23 | 0.08 | 0.08 | 0.113 | 1.396 | 0.073 | 49.430 | 2016.090 | iT27 1x3s |
| | B | 07 07 53.771 | 00 48 44.06 | | | | | 0.074 | 43.000 | | |
| 2454 | A | 07 09 49.140 | 00 28 57.92 | 0.07 | 0.08 | 0.106 | 1.239 | 0.071 | 77.650 | 2016.090 | iT27 1x3s |
| | B | 07 09 49.038 | 00 29 02.59 | | | | | 0.072 | 73.100 | | |
| 2458 | A | 07 14 55.563 | -01 13 07.08 | 0.08 | 0.08 | 0.113 | 1.522 | 0.083 | 50.320 | 2016.096 | iT27 2x3s |
| | B | 07 14 55.449 | -01 13 10.98 | | | | | 0.088 | 29.980 | | |
| 2459 | A | 07 15 24.751 | -11 05 48.44 | 0.08 | 0.09 | 0.120 | 1.135 | 0.071 | 124.990 | 2016.172 | iT27 1x3s |
| | B | 07 15 25.149 | -11 05 50.05 | | | | | 0.071 | 116.570 | | |
| 2461 | A | 07 17 02.371 | -10 34 56.57 | 0.08 | 0.08 | 0.113 | 1.055 | 0.091 | 98.590 | 2016.172 | iT27 1x3s |
| | B | 07 17 02.237 | -10 34 50.75 | | | | | 0.092 | 60.100 | | |
| 2462 | A | 07 17 06.175 | -10 32 23.23 | 0.08 | 0.08 | 0.113 | 0.750 | 0.081 | 85.230 | 2016.172 | iT27 1x3s |
| | B | 07 17 06.194 | -10 32 14.59 | | | | | 0.083 | 52.960 | | |
| 2464 | A | 07 18 11.762 | -10 31 32.49 | 0.08 | 0.08 | 0.113 | 1.196 | 0.092 | 52.630 | 2016.172 | iT27 1x3s |
| | B | 07 18 12.071 | -10 31 29.56 | | | | | 0.093 | 42.970 | | |
| 2477 | A | 07 28 04.725 | -03 31 05.17 | 0.07 | 0.08 | 0.106 | 2.176 | 0.082 | 55.360 | 2016.096 | iT27 1x3s |
| | B | 07 28 04.889 | -03 31 03.83 | | | | | 0.087 | 32.280 | | |
| 2482 | A | 07 34 14.014 | -01 35 08.63 | 0.07 | 0.09 | 0.114 | 1.492 | 0.070 | 7094.000 | 2016.090 | iT27 1x3s |
| | B | 07 34 14.123 | -01 35 04.57 | | | | | 0.073 | 50.700 | | |
| 2485 | A | 07 41 36.579 | -10 43 28.70 | 0.09 | 0.09 | 0.127 | 1.170 | 0.074 | 43.810 | 2016.164 | iT27 1x3s |
| | B | 07 41 36.915 | -10 43 32.48 | | | | | 0.081 | 26.370 | | |
| 2487 | A | 07 46 13.953 | -06 02 29.74 | 0.07 | 0.08 | 0.106 | 0.893 | 0.081 | 69.820 | 2016.096 | iT27 1x3s |
| | B | 07 46 14.283 | -06 02 34.46 | | | | | 0.085 | 37.140 | | |

*Table 2 continues on the next page.*

# Jonckheere Double Star Photometry – Part XII: Mon I

*Table 2 (continued).*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2491 | A | 07 57 20.130 | -03 46 09.87 | 0.04 | 0.05 | 0.064 | 0.949 | 0.114 | 36.740 | 2016.022 | iT27 1x3s |
| | B | 07 57 20.169 | -03 46 06.05 | | | | | 0.118 | 25.370 | | |
| 2493 | A | 08 10 12.748 | -11 09 40.57 | 0.09 | 0.08 | 0.120 | 0.940 | 0.071 | 81.360 | 2016.096 | iT27 1x3s |
| | B | 08 10 12.403 | -11 09 35.27 | | | | | 0.076 | 37.310 | | |
| 2611 | A | 06 48 07.842 | 09 44 12.08 | 0.08 | 0.06 | 0.100 | 1.329 | 0.092 | 52.220 | 2016.022 | iT27 1x3s |
| | B | 06 48 08.071 | 09 44 09.41 | | | | | 0.098 | 27.520 | | |
| 2611 | A | 06 48 07.842 | 09 44 12.08 | 0.08 | 0.06 | 0.100 | 0.330 | 0.092 | 52.220 | 2016.022 | iT27 1x3s |
| | C | 06 48 07.595 | 09 44 29.05 | | | | | 0.102 | 22.070 | | |
| 2616 | A | 06 54 24.524 | -00 09 09.23 | 0.08 | 0.08 | 0.113 | 1.266 | 0.075 | 37.990 | 2016.096 | iT27 1x3s |
| | B | 06 54 24.519 | -00 09 04.11 | | | | | 0.075 | 38.190 | | |
| 2616 | A | 06 54 24.524 | -00 09 09.23 | 0.08 | 0.08 | 0.113 | 0.303 | 0.075 | 37.990 | 2016.096 | iT27 1x3s. SNR B<20 |
| | C | 06 54 24.965 | -00 08 48.85 | | | | | 0.101 | 14.490 | | |
| 2623 | A | 07 09 11.895 | -05 16 54.60 | 0.07 | 0.07 | 0.099 | 1.040 | 0.071 | 86.730 | 2016.164 | iT27 1x3s |
| | B | 07 09 12.223 | -05 16 56.99 | | | | | 0.072 | 67.480 | | |
| 2636 | A | 08 02 20.022 | -06 26 02.89 | 0.08 | 0.08 | 0.113 | 1.485 | 0.071 | 88.870 | 2016.090 | iT27 1x3s |
| | B | 08 02 20.274 | -06 26 00.67 | | | | | 0.081 | 26.380 | | |
| 2637 | A | 08 02 26.292 | -06 25 53.89 | 0.08 | 0.08 | 0.113 | 0.925 | 0.071 | 78.360 | 2016.090 | iT27 1x3s |
| | B | 08 02 25.879 | -06 25 57.24 | | | | | 0.079 | 28.980 | | |
| 2758 | A | 06 51 23.483 | -03 54 46.62 | 0.08 | 0.08 | 0.113 | 2.116 | 0.074 | 46.660 | 2016.164 | iT27 1x3s |
| | B | 06 51 23.650 | -03 54 48.39 | | | | | 0.076 | 37.850 | | |
| 2766 | A | 06 57 44.312 | -04 36 55.72 | 0.07 | 0.07 | 0.099 | 1.055 | 0.072 | 65.150 | 2016.164 | iT27 1x3s |
| | B | 06 57 44.543 | -04 36 51.60 | | | | | 0.072 | 59.330 | | |
| 2768 | A | 06 58 38.918 | -09 09 47.34 | 0.08 | 0.08 | 0.113 | 1.105 | 0.082 | 62.490 | 2016.172 | iT27 1x3s |
| | B | 06 58 39.240 | -09 09 43.92 | | | | | 0.082 | 56.750 | | |
| 2769 | A | 06 59 39.058 | 02 19 33.41 | 0.07 | 0.06 | 0.092 | 0.952 | 0.073 | 56.800 | 2016.022 | iT27 1x3s |
| | B | 06 59 39.402 | 02 19 35.46 | | | | | 0.072 | 59.800 | | |
| 2770 | A | 06 59 58.224 | -05 06 26.30 | 0.07 | 0.07 | 0.099 | 0.679 | 0.071 | 127.040 | 2016.164 | iT27 1x3s |
| | B | 06 59 58.269 | -05 06 34.63 | | | | | 0.073 | 51.020 | | |
| 2772 | A | 07 03 06.929 | -04 24 29.59 | 0.08 | 0.08 | 0.113 | 0.950 | 0.062 | 68.520 | 2016.164 | iT27 1x3s |
| | B | 07 03 07.274 | -04 24 34.05 | | | | | 0.064 | 49.630 | | |
| 2774 | A | 07 04 21.964 | 09 15 55.73 | 0.08 | 0.08 | 0.113 | 1.648 | 0.073 | 54.600 | 2016.022 | iT27 1x3s |
| | B | 07 04 22.223 | 09 15 56.60 | | | | | 0.076 | 37.290 | | |
| 2776 | A | 07 05 05.390 | 00 58 41.08 | 0.07 | 0.08 | 0.106 | 0.937 | 0.081 | 94.790 | 2016.090 | iT27 1x3s |
| | B | 07 05 05.133 | 00 58 35.85 | | | | | 0.084 | 40.010 | | |
| 2781 | A | 07 08 11.370 | -01 51 34.03 | 0.09 | 0.08 | 0.120 | 1.390 | 0.082 | 61.760 | 2016.096 | iT27 1x3s |
| | B | 07 08 11.039 | -01 51 34.15 | | | | | 0.088 | 29.070 | | |
| BAL 409 | A | 07 08 11.089 | -01 51 59.25 | 0.09 | 0.08 | 0.120 | 0.270 | 0.081 | 81.030 | 2016.096 | iT27 1x3s |
| | B | 07 08 11.370 | -01 51 34.03 | | | | | 0.082 | 61.760 | | |
| 2782 | A | 07 08 07.726 | -10 36 17.33 | 0.07 | 0.08 | 0.106 | 1.716 | 0.071 | 110.910 | 2016.172 | iT27 1x3s |
| | B | 07 08 07.490 | -10 36 16.64 | | | | | 0.071 | 77.510 | | |
| 2784 | A | 07 08 28.485 | 00 57 40.49 | 0.08 | 0.08 | 0.113 | 0.996 | 0.083 | 50.080 | 2016.090 | iT27 1x3s |
| | B | 07 08 28.634 | 00 57 34.38 | | | | | 0.083 | 45.960 | | |
| 2788 | A | 07 10 33.789 | -10 11 44.75 | 0.09 | 0.09 | 0.127 | 1.398 | 0.073 | 48.270 | 2016.172 | iT27 1x3s. PA in last WDS measurement in error |
| | B | 07 10 33.491 | -10 11 41.95 | | | | | 0.076 | 35.550 | | |
| 2789 | A | 07 11 34.397 | -07 48 48.77 | 0.08 | 0.07 | 0.106 | 0.937 | 0.071 | 94.690 | 2016.167 | iT27 1x3s |
| | B | 07 11 34.832 | -07 48 48.11 | | | | | 0.072 | 68.070 | | |
| 2792 | A | 07 14 40.184 | -02 11 43.60 | 0.08 | 0.07 | 0.106 | 1.902 | 0.076 | 34.740 | 2016.096 | iT27 1x3s |
| | B | 07 14 40.179 | -02 11 46.80 | | | | | 0.077 | 34.440 | | |
| 2793 | A | 07 14 14.703 | -10 06 19.34 | 0.07 | 0.08 | 0.106 | 2.480 | 0.072 | 62.290 | 2016.172 | iT27 1x3s |
| | B | 07 14 14.864 | -10 06 19.95 | | | | | 0.073 | 48.640 | | |
| 2796 | A | 07 15 00.442 | -06 52 52.08 | 0.08 | 0.10 | 0.128 | 1.110 | 0.088 | 29.100 | 2016.164 | iT27 1x3s. SNR B<20 |
| | B | 07 15 00.358 | -06 52 45.59 | | | | | 0.126 | 10.610 | | |

*Table 2 continues on the next page.*

## Jonckheere Double Star Photometry – Part XII: Mon I

*Table 2 (continued).*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2798 | A | 07 15 43.769 | -10 40 15.45 | 0.08 | 0.09 | 0.120 | 1.694 | 0.081 | 72.120 | 2016.172 | iT27 1x3s |
| | B | 07 15 43.944 | -10 40 18.60 | | | | | 0.083 | 53.160 | | |
| 2802 | A | 07 16 06.432 | -01 37 35.14 | 0.09 | 0.07 | 0.114 | 1.561 | 0.082 | 57.580 | 2016.096 | iT27 1x3s |
| | B | 07 16 06.153 | -01 37 35.18 | | | | | 0.084 | 40.160 | | |
| 2804 | A | 07 16 37.283 | -10 05 38.17 | 0.08 | 0.08 | 0.113 | 1.214 | 0.081 | 86.820 | 2016.172 | iT27 1x3s |
| | B | 07 16 37.064 | -10 05 33.92 | | | | | 0.081 | 72.250 | | |
| 2809 | A | 07 18 39.435 | -06 56 24.60 | 0.07 | 0.07 | 0.099 | 1.059 | 0.083 | 51.850 | 2016.164 | iT27 1x3s |
| | B | 07 18 39.239 | -06 56 29.09 | | | | | 0.091 | 24.030 | | |
| 2810 | A | 07 19 30.249 | -03 03 55.96 | 0.08 | 0.08 | 0.113 | 1.124 | 0.072 | 61.710 | 2016.096 | iT27 1x3s |
| | B | 07 19 30.354 | -03 04 01.51 | | | | | 0.085 | 21.950 | | |
| 2816 | A | 07 25 32.433 | -03 26 01.46 | 0.07 | 0.07 | 0.099 | 0.998 | 0.098 | 27.640 | 2016.096 | iT27 1x3s. SNR B<20 |
| | B | 07 25 32.150 | -03 25 57.67 | | | | | 0.118 | 13.760 | | |
| 2817 | A | 07 26 31.276 | -02 33 52.04 | 0.08 | 0.08 | 0.113 | 1.398 | 0.072 | 61.610 | 2016.096 | iT27 1x3s |
| | B | 07 26 31.112 | -02 33 48.11 | | | | | 0.073 | 48.750 | | |
| 2822 | A | 07 27 15.897 | -03 48 36.24 | 0.07 | 0.10 | 0.122 | 1.144 | 0.093 | 43.290 | 2016.096 | iT27 1x3s |
| | B | 07 27 15.503 | -03 48 34.63 | | | | | 0.100 | 24.430 | | |
| 2823 | A | 07 27 35.396 | -07 01 21.88 | 0.07 | 0.09 | 0.114 | 1.431 | 0.075 | 39.900 | 2016.164 | iT27 1x3s |
| | B | 07 27 35.701 | -07 01 22.35 | | | | | 0.084 | 23.040 | | |
| 2825 | A | 07 28 02.170 | -07 44 18.82 | 0.06 | 0.07 | 0.092 | 0.809 | 0.072 | 66.170 | 2016.164 | iT27 1x3s |
| | B | 07 28 02.361 | -07 44 12.94 | | | | | 0.072 | 66.140 | | |
| 2831 | A | 07 32 23.419 | -04 31 03.00 | 0.08 | 0.08 | 0.113 | 1.503 | 0.062 | 73.010 | 2016.096 | iT27 1x3s |
| | B | 07 32 23.603 | -04 31 06.32 | | | | | 0.064 | 49.630 | | |
| 2833 | A | 07 33 05.234 | -04 29 56.10 | 0.07 | 0.08 | 0.106 | 0.801 | 0.072 | 69.800 | 2016.096 | iT27 1x3s |
| | B | 07 33 05.738 | -04 29 55.10 | | | | | 0.074 | 47.320 | | |
| 2834 | A | 07 33 48.247 | -04 31 29.42 | 0.07 | 0.08 | 0.106 | 1.209 | 0.073 | 49.530 | 2016.096 | iT27 1x3s |
| | B | 07 33 48.104 | -04 31 33.98 | | | | | 0.074 | 44.110 | | |
| 2836 | A | 07 34 00.694 | -09 34 52.50 | 0.08 | 0.08 | 0.113 | 1.047 | 0.082 | 66.850 | 2016.164 | iT27 1x3s |
| | B | 07 34 01.024 | -09 34 48.69 | | | | | 0.086 | 33.280 | | |
| 2837 | A | 07 34 59.225 | -04 58 50.38 | 0.08 | 0.08 | 0.113 | 0.701 | 0.061 | 86.480 | 2016.107 | iT27 1x3s |
| | B | 07 34 59.164 | -04 58 59.58 | | | | | 0.064 | 47.290 | | |
| 2839 | A | 07 36 25.885 | -03 34 42.62 | 0.07 | 0.09 | 0.114 | 0.772 | 0.072 | 59.270 | 2016.096 | iT27 1x3s |
| | B | 07 36 25.320 | -03 34 42.59 | | | | | 0.076 | 36.140 | | |
| 2842 | A | 07 37 52.430 | -05 21 10.06 | 0.08 | 0.09 | 0.120 | 0.744 | 0.061 | 100.900 | 2016.107 | iT27 1x3s |
| | B | 07 37 52.233 | -05 21 01.27 | | | | | 0.061 | 96.910 | | |
| 2845 | A | 07 39 37.905 | -10 12 31.96 | 0.08 | 0.22 | 0.234 | 2.761 | 0.109 | 24.790 | 2016.164 | iT27 1x3s. Image quality a bit questionable - yet it seems clear that the last "precise" measurement was for a wrong object nearby |
| | B | 07 39 38.141 | -10 12 28.58 | | | | | 0.108 | 25.510 | | |
| 2846 | A | 07 39 50.659 | -09 26 38.00 | 0.07 | 0.08 | 0.106 | 0.876 | 0.071 | 81.640 | 2016.164 | iT27 1x3s |
| | B | 07 39 50.860 | -09 26 44.28 | | | | | 0.072 | 62.240 | | |
| 2850 | A | 07 43 36.236 | -02 28 16.29 | 0.07 | 0.08 | 0.106 | 0.887 | 0.082 | 57.720 | 2016.090 | iT27 1x3s |
| | B | 07 43 35.849 | -02 28 19.97 | | | | | 0.089 | 26.670 | | |
| 2854 | A | 07 50 29.625 | -02 06 54.66 | 0.07 | 0.08 | 0.106 | 0.876 | 0.072 | 65.980 | 2016.022 | iT27 1x3s |
| | B | 07 50 30.057 | -02 06 52.12 | | | | | 0.072 | 59.310 | | |
| 2858 | A | 07 55 25.879 | -07 19 10.16 | 0.08 | 0.06 | 0.100 | 0.756 | 0.074 | 45.290 | 2016.096 | iT27 1x3s. SNR B<20 |
| | B | 07 55 26.057 | -07 19 03.06 | | | | | 0.092 | 17.490 | | |
| 2859 | A | 07 57 51.037 | -03 42 30.88 | 0.06 | 0.07 | 0.092 | 1.888 | 0.083 | 52.720 | 2016.022 | iT27 1x3s |
| | B | 07 57 51.180 | -03 42 32.68 | | | | | 0.083 | 48.260 | | |
| 2860 | A | 07 57 47.442 | -04 56 25.15 | 0.07 | 0.08 | 0.106 | 1.088 | 0.085 | 38.730 | 2016.090 | iT27 1x3s |
| | B | 07 57 47.084 | -04 56 26.80 | | | | | 0.088 | 29.490 | | |
| 2864 | A | 08 04 31.839 | -09 06 53.43 | 0.07 | 0.08 | 0.106 | 1.261 | 0.077 | 21.970 | 2016.096 | iT27 1x3s. Image quality a bit questionable |
| | B | 08 04 31.553 | -09 06 55.75 | | | | | 0.081 | 19.280 | | |
| 2865 | A | 08 04 33.019 | -09 09 12.06 | 0.06 | 0.07 | 0.092 | 1.146 | 0.072 | 70.420 | 2016.096 | iT27 1x3s |
| | B | 08 04 32.804 | -09 09 15.39 | | | | | 0.073 | 51.960 | | |
| 2866 | A | 08 05 39.543 | -04 21 59.45 | 0.08 | 0.07 | 0.106 | 0.655 | 0.072 | 69.640 | 2016.022 | iT27 1x3s |
| | B | 08 05 38.931 | -04 21 57.83 | | | | | 0.073 | 49.980 | | |
| 2866 | B | 08 05 38.931 | -04 21 57.83 | 0.08 | 0.07 | 0.106 | 1.278 | 0.073 | 49.980 | 2016.022 | iT27 1x3s |
| | C | 08 05 39.115 | -04 22 01.72 | | | | | 0.077 | 33.370 | | |

*Table 2 concludes on the next page.*

## Jonckheere Double Star Photometry – Part XII: Mon I

*Table 2 (conclusion).*

| Obj | C | RA | Dec | dRA | dDec | Err Sep | Err PA | Err Mag | SNR | Date | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2867 | A | 08 05 52.756 | -06 14 42.77 | 0.08 | 0.09 | 0.120 | 0.739 | 0.095 | 33.940 | 2016.090 | iT27 1x3s |
| | B | 08 05 52.256 | -06 14 37.15 | | | | | 0.094 | 40.290 | | |
| 2868 | A | 08 05 56.684 | -06 14 52.29 | 0.07 | 0.08 | 0.106 | 0.898 | 0.091 | 68.890 | 2016.090 | iT27 1x3s |
| | B | 08 05 56.736 | -06 14 45.55 | | | | | 0.094 | 40.670 | | |
| 2869 | A | 08 08 33.580 | -09 57 44.39 | 0.07 | 0.06 | 0.092 | 0.728 | 0.081 | 94.860 | 2016.096 | iT27 1x3s |
| | B | 08 08 33.321 | -09 57 50.56 | | | | | 0.083 | 52.340 | | |
| 2870 | A | 08 08 18.174 | -09 16 30.19 | 0.07 | 0.08 | 0.106 | 0.927 | 0.072 | 58.890 | 2016.096 | iT27 1x3s |
| | B | 08 08 18.511 | -09 16 34.46 | | | | | 0.084 | 23.020 | | |
| 2871 | A | 08 09 28.708 | -10 47 09.76 | 0.08 | 0.08 | 0.113 | 1.277 | 0.073 | 52.200 | 2016.096 | iT27 1x3s |
| | B | 08 09 28.602 | -10 47 14.59 | | | | | 0.074 | 44.750 | | |
| 3230 | A | 07 03 58.921 | -07 09 57.03 | 0.06 | 0.07 | 0.092 | 0.964 | 0.060 | 234.160 | 2016.167 | iT27 1x3s |
| | B | 07 03 59.286 | -07 09 56.31 | | | | | 0.061 | 103.190 | | |
| 3286 | A | 08 05 50.099 | -06 14 19.50 | 0.07 | 0.08 | 0.106 | 2.288 | 0.094 | 42.340 | 2016.090 | iT27 1x3s. Touching star disks |
| | B | 08 05 50.234 | -06 14 21.24 | | | | | 0.097 | 30.210 | | |
| 3309 | A | 07 03 32.377 | -08 40 29.85 | 0.08 | 0.08 | 0.113 | 1.769 | 0.073 | 56.170 | 2016.172 | iT27 1x3s |
| | B | 07 03 32.567 | -08 40 27.51 | | | | | 0.086 | 21.230 | | |

- Obj = either J number or discoverer code if no J object
- C = components
- dRA and dDec = average RA and Dec plate solving errors in arcseconds
- Err_Sep = separation error estimation in arcseconds calculated as

$$Err\_Sep = \sqrt{dRA^2 + dDec^2}$$

- Err_PA = position angle error estimation in degrees calculated as

$$Err\_PA = \arctan\left(\frac{Err\_Sep}{Sep}\right)$$

- assuming the worst case that Err_Sep points perpendicular to the separation vector
- dmag = average mag plate solving error (Vmag for images with made V-filter and Imag for images made with I-filter)
- Err_Mag = magnitude error estimation calculated as

$$Err\_Mag = \sqrt{dV_{mag}{}^2 + \left[2.5\log\left(1+\frac{1}{SNR}\right)\right]^2}$$

- SNR = signal to noise ratio for the given object
- Date = Julian observation epoch