



THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS

49 Bay State Road, Cambridge, Massachusetts 02138-1203, USA

Phone: (617) 354-0484 Fax: (617) 354-0665

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Dear Observers,

February 2010

AAVSO Bulletin 73, containing predicted maxima and minima dates for 562 long period variables for 2010 and approximate dates for January and February 2011, has been published and is available online at <http://www.aavso.org/publications/bulletin>. Paper copies are also available on request to AAVSO Headquarters.

Materials in the Bulletin folder include:

- Note to Observers for 2010 (please read!)
- How to Use Bulletin 73 (contains new information; please be sure to read)
- Introduction to Bulletin 73 (**EVERY USER SHOULD READ THIS YEAR**)
- Bulletin 73, schematic version, in one file
- Bulletin 73, schematic version, divided by Hour of Right Ascension
- Bulletin 73, tabular version, divided by month
- Bulletin Stars in Need of Observations
- Bulletin Stars, with 2000.0 coordinates

I strongly urge you to use the AAVSO Bulletin in planning your observing sessions. Doing so will allow you to make the most of your valuable time in observing these Mira and semiregular long period variables.

***!!**!!**!!**!!**!!**!!**!!**!!**!!

IMPORTANT NOTICE

The predicted maxima and minima dates for 2010 are less precise than usual. They were determined this year using the observed dates from 2008 instead of 2009. As a result, for some stars the predicted dates of maximum and minimum may be off by a few weeks or more, particularly for less regular stars. They should be considered approximate and used for planning purposes with caution.

IF YOU ARE USING THE BULLETIN TO PLAN SATELLITE OR MAJOR GROUND-BASED TELESCOPE OBSERVATIONS, PLEASE BE **CERTAIN**** TO CONTACT AAVSO HEADQUARTERS FOR MORE PRECISE PREDICTIONS, OR CHECK THE AAVSO LIGHT CURVE GENERATOR AT THE FOLLOWING URL TO SEE THE STAR'S MOST RECENT BEHAVIOR:**

<http://www.aavso.org/data/lcg/>

If you need dates of observed maxima/minima for statistical or other data- or research-related purposes, please contact AAVSO Headquarters via email at aavso@aavso.org.

***!!**!!**!!**!!**!!**!!**!!**!!**!!

Also, the disquieting trend I first noticed two years ago is continuing, although some stars are showing better coverage: For many stars that have their maximum brightness around magnitude 10 or fainter, there is a noticeable decrease in the number of observations on the falling branch (that is, from maximum to minimum) than in the past. This trend does not appear in stars that have their maximum around magnitude 8 or brighter, even when the falling branch goes to magnitude 12 or fainter. In general, seems that stars roughly magnitude 8-12 are well covered and magnitude 10-14 are suffering.

I realize that there are a great many astronomical objects competing for your observing time, especially for users of moderate- to large-sized telescopes. However, I urge you not to neglect the AAVSO Bulletin stars!

Non-Profit Scientific and Educational Organization



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These stars have decades - some, well over a century - of ongoing data provided by you and your colleagues, and continued continuity is essential to the researchers who will be analyzing these stars in the decades to come.

Many thanks to each of you for your valuable astronomical contributions. We look forward to continuing to receive your observations!

Good observing,

Elizabeth O. Waagen
Senior Technical Assistant

HOW TO USE AAVSO *BULLETIN* 73 FOR 2010

!!*!*!*!

IMPORTANT NOTICE: Bulletin 73 was NOT prepared in the same way as in the past. Please be sure to **READ THE INTRODUCTION** before you use the Bulletin; contact AAVSO Headquarters if you have questions.

!!*!*!*!

The AAVSO Bulletin is essential in planning your observing schedule each month. It contains predicted dates of maxima and minima of long period variables in a schematic representation and shows when a variable will be brighter than magnitude 11.0 or fainter than magnitude 13.5.

The first step in planning your monthly observing schedule is to determine which part of the sky you will be able to see (see Table I). Secondly, check the Bulletin (reading the introductory page first!) to find out which observable long period variable stars will be at the appropriate brightness for your equipment.

Example: Table I indicates that in the month of January 2010, from 2 hours after sunset until midnight, stars between 1 hour and 9 hours of right ascension are observable. Turn to page 2 of the Bulletin and look at the possibilities. If you have a 2.5-inch telescope which has a limiting magnitude of 10 to 11, the + signs on page 2 under January show that the stars 0003-39 V Scl, 0004+51 SS Cas, 0010+46 X And, 0010-32 S Scl, 0017+55 T Cas, 0018-62 S Tuc, 0025-46 T Phe, 0040+47 U Cas, 0046+33 RR And, 0049+58 W Cas, 0125+02 R Psc, and 0152+54 U Per will be brighter than magnitude 11 during this month and so they would be good candidates for observing with a small telescope.

During the same month, with the same telescope, do not observe 0019-09 S Cet, 0044-35 X Scl, 0047+46A RV Cas, 0054-75 U Tuc, 0106-30 U Scl, 0109+40 U And, 0110+41A UZ And, 0112+72 S Cas, or 0112+08 S Psc, since these stars will be fainter than 13.5, as the - signs indicate, and will be below the limit of a small telescope.

If you have a large-aperture telescope (6-inch or more) or a charge-coupled device (CCD), please observe faint magnitude stars, and in particular faint minima, since observers with smaller-aperture equipment can adequately cover the brighter stars.

After the star name, one or two symbols may appear. These symbols indicate differing levels of need of observation. However, caution should be used in observing these stars, as many of them are very difficult to observe or have poor charts (these charts are being improved as quickly as possible). One symbol indicates that, while CCDV or multicolor photometry exists for the star, visual observations are needed. Often these stars need visual data in the brighter section of the light curve - magnitude 12 and brighter - as the instrumental photometry is covering the fainter portion of the light curve. The symbols and their meanings are:

- needs more observations

& - needs more observations urgently

@ - needs more observations very urgently

% - has fair to excellent CCDV or multicolor photometry, but more visual observations are needed (usually more visual observations are needed very urgently)

A well-scheduled program making use of the AAVSO Bulletin will increase the value of your astronomical contribution, as well as heighten the efficiency and enjoyment of your observing.

TABLE I

Approximate Observing Windows Centered on the 15th of the Month from 2 Hours after Sunset to Midnight

| Month | Right Ascen. | Month | Right Ascen. | Month | Right Ascen. |
|-------|--------------|-------|---------------|-------|--------------|
| Jan. | 1 - 9 hours | May | 11 - 18 hours | Sep. | 18 - 2 hours |
| Feb. | 3 - 11 " | June | 13 - 19 " | Oct. | 19 - 3 " |
| Mar. | 5 - 13 " | July | 15 - 21 " | Nov. | 21 - 5 " |
| Apr. | 7 - 15 " | Aug. | 16 - 23 " | Dec. | 23 - 7 " |

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BULLETIN 73

Predicted Dates of Maxima and Minima of Long Period Variables for 2010

(please see Important Notice below)

ELIZABETH O. WAAGEN, Senior Technical Assistant

Predicted dates for 2010 of maxima and minima of 562 long period and semiregular variables are given in this Bulletin. These dates have been determined using the AAVSO mean curves. As a convenience to the observer, approximate dates of maxima and minima for January and February of 2011 are also given. These dates are preliminary and are subject to change when the official predictions for 2011 are published. This Bulletin may also be found on the AAVSO web site page <http://www.aavso.org/publications/bulletin>.

!!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

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!!*!*!*!*!*!*!*!*!*!*!*!*!*!*!

An asterisk (*) preceding the designation indicates a star does not have a mean curve, thus predictions of their maxima and minima are questioned. Also questioned are maxima and minima of those stars not behaving predictably.

RANGE VALUES ARE ALL VISUAL. Range values given within the symbols "< >" are average maximum and minimum visual magnitudes and are taken from the third edition of *the General Catalogue of Variable Stars* and its Supplements. Range values given without "< >" symbols are mean visual magnitudes of the brightest maximum and faintest minimum obtained from the data in the AAVSO International Database since 1961. **The values of maximum and minimum for an individual cycle may be much brighter or fainter than the range values given in the Bulletin.**

In the monthly grids, the letter "M" indicates a predicted maximum; the letter "m" indicates a predicted minimum. The number preceding the letter "M" or "m" indicates the predicted date of maximum or minimum for each star. The "+" symbols on either side of the "M" or "m" show the estimated intervals during which the star will be brighter than visual magnitude 11.0, according to information supplied in *AAVSO Bulletin 27*. Also, the "-" symbols on either side of the "m" show the estimated interval during which the star will be fainter than visual magnitude 13.5, again according to *AAVSO Bulletin 27*.

My sincere thanks go to Katherine L. Davis, who wrote software to allow the fitting of mean curves on-screen and automatic digitization of extrema dates for all Bulletin stars, and who placed the Bulletin on the AAVSO website. I also thank Matthew R. Templeton for helpful discussions, and Charles M. Jones and Grant Foster, who wrote the software to produce the Bulletin itself.

The observations for this Bulletin are the contributions of AAVSO members and observers in the United States and abroad. Contributions have also been made by members of the following Variable Star Associations: Agrupacion Astronomica de Sabadell (Spain); Asociacion de Variabilistas de Espagne (Spain); Asociacion Argentina Amigos de la Astronomia; Association Française des Observateurs d'Étoiles Variables (France); Association of Variable Star Observers "Pleione" (Russia); Astronomical Society of South Australia; Astronomical Society of Southern Africa, Variable Star Section; Astronomischer Jugendclub (Austria); Astronomisk Selskab (Scandinavia); Brazilian Observational Network REA; British Astronomical Association, Variable Star Section (England); Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany); Israeli Astronomical Association, Variable Star Section; Koninklijke Nederlandse Vereniging Voor Weeren Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands); Liga Ibero-Americana de Astronomia (South America); Madrid Astronomical Association M1 (Spain); Magyar Csillagászati Egyesület, Változócsillag Szakcsoport (Hungary); Norsk Astronomisk Selskap, Variable Stjernegruppen (Norway); Planetario e Observatorio Astronomico do Colegio Estadual do Parana (Brazil); Red de Observadores de Estrellas Variables - MIRA (Spain); Royal Astronomical Society of Canada; Royal Astronomical Society of New Zealand, Variable Star Section; Ukraine Astronomical Group, Variable Star Section; Uniao Brasileira de Astronomia, Variable Star Commission (Brazil); Unione Astrofili Italiani (Italy); URSA Astronomical Association, Variable Star Section (Finland); Variable Star Observers League in Japan; Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium).

We gratefully acknowledge the astronomical contribution of each observer.

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| DESIGN. | NAME | RANGE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB |
|-----------|-----------|---------------|-------------|----------|----------|------------|------------|-------|----------|----------|------------|----------|----------|-----------|---------|--------|
| 0003-39 | V Scl %@ | <9.9-14.6> | 4M+++++ | | ----- | 22m | ----- | | | | +++++ | 27M+++++ | | ----- | | |
| 0004+51 | SS Cas | <9.8-13.1> | 11M+++ | | 22m | | ++++1M++++ | | 9m | | +++19M++++ | | 28m | | | +++ |
| *0009+28 | UW And & | 9.6-(15.0) | | 4M? | | | 27m? | | | | 6M? | | | | 26m? | |
| 0010+46 | X And %# | <9.0-14.8> | +++++ | | | | | | ----- | 3m | ----- | +++++ | 24M+++++ | | | |
| 0010-32 | S Scl %# | <6.7-12.9> | +++++ | | | | | 20m | | | +++++ | | | 24M+++++ | | |
| *0014+44 | VX And | 7.9-9.6 | | 9M? | | | | | | | | 8m? | | | 13M? | |
| 0017+55 | T Cas | <7.9-11.9> | ++25M+++++ | | | | | | 1m | | +++++ | | | | | |
| 0017+26 | T And | <8.5-13.8> | | | +++++ | 8M+++++ | | | | ----- | 5m | ----- | +++++ | 14M+++++ | | |
| 0018+38 | R And | <6.9-14.3> | | | ----- | 30m | ----- | | | +++++ | 6M+++++ | | | | | |
| 0018-62 | S Tuc %& | <9.3-14.5> | +++++ | | | ----- | 16m | ----- | +++++ | 20M+++++ | | | | ----- | 11m | ----- |
| 0019-09 | S Cet | <8.2-14.2> | | ----- | 17m | ----- | | +++++ | 15M+++++ | | | | | ----- | 4m | ----- |
| *0022+30 | YZ And | 10.1-15.9 | | | 24m? | | 24M? | | | 19m? | | | | 17M? | | |
| 0024-38A | T Scl # | <9.2-13.0> | | 31m | | +++++ | 11M+++++ | | 22m | | +++++ | 30M+++++ | | | | |
| 0025-46 | T Phe %@ | <9.4-14.2> | +++27M+++++ | | | | ----- | 23m | ----- | | ++++ | 5M+++++ | | | | -- |
| *0027+25A | TU And | <8.5-12.5> | | | 8M? | | | | 10m? | | | | | | 19M? | |
| 0031+79 | Y Cep | <9.6-15.1> | | | ----- | 2m | ----- | | +++++ | 9M+++++ | | | | ----- | | |
| *0031+62 | TY Cas | 10.3-(16.5) | | | | | | | | | 29m? | | | | | |
| 0040+47 | U Cas | <8.4-14.8> | ++ | | ----- | 19m | ----- | | +++++ | 21M+++++ | | | | ----- | 21m | ----- |
| 0041+32 | RW And | <8.7-14.8> | | | ----- | 16m | ----- | | | +++++ | 5M+++++ | | | | | |
| 0044+35 | V And | <9.5-14.4> | | | ----- | 5m | ----- | | +++++ | 2M+++++ | | | ----- | 18m | ----- | ++ |
| 0044-35 | X Scl %@ | <10.6-(14.2)> | 2m | ----- | | +++14M++++ | | | | ----- | 21m | ----- | | +++31M+++ | | |
| 0046+33 | RR And | <9.1-15.1> | 7M+++++ | | | ----- | 7m | ----- | | | +++++ | 1M+++++ | | | | |
| 0047+46A | RV Cas | <9.4-15.2> | ----- | | +++++ | 15M+++++ | | | | ----- | 13m | ----- | | | +++++ | |
| 0049+58 | W Cas | <8.8-11.8> | +++++ | | | | | 6m | | +++++ | | | | | | 5M++++ |
| *0054+27 | W Psc # | 9.8-15.6 | 13m? | | | 25M? | | 20m? | | | 30M? | | | 24m? | | |
| 0054-75 | U Tuc %@ | <8.6-14.1> | 4m | ----- | | +++++ | 6M+++++ | | | ----- | 26m | ----- | | +++++ | 26M++++ | |
| 0101-02 | Z Cet & | <8.9-13.5> | | 16m | | +++++ | 21M+++++ | | 20m | | +++++ | 22M+++++ | | | 21m | |
| *0106+21A | X Psc %& | 7.9-15.0 | | | | | 2M? | | | | | | | 19m? | | |
| 0106-30 | U Scl %& | <9.8-15.1> | | | ----- | 20m | ----- | | | +++++ | 27M+++++ | | | ----- | | |
| 0109+40 | U And | <9.9-14.3> | | | ----- | 23m | ----- | | +++++ | 7M+++++ | | | | ----- | | |
| *0109-57 | RS Phe %@ | 9.7-(15.0) | | | | 28m? | | | | 23M? | | | | 23m? | | |
| *0110+55A | VZ Cas | 9.5-14.0 | | | 27m? | | 23M? | | 15m? | | | 8M? | | | 31m? | |
| 0110+41A | UZ And | <10.1-14.9> | - | ++++ | 28M+++++ | | | | | ----- | 29m | ----- | | ++++ | 8M+++++ | |
| 0112+72 | S Cas | <9.7-14.8> | | | ----- | 15m | ----- | | | +++++ | 8M+++++ | | | | | |
| 0112+08 | S Psc %& | <9.6-15.0> | ----- | | 7m | ----- | | +++++ | 28M+++++ | | | | | ----- | | |
| 0117+12 | U Psc %& | <11.0-14.4> | | 24M | | ---15m--- | | 16M | | ----- | 5m | ----- | | 6M | | |
| *0120+20 | RX Psc %& | 9.5-(14.7) | | | | 21m? | | | | | 10M? | | | 27m? | | |
| *0122-33 | R Scl | 6.0-9.1 | | | | 14m? | | | | | 17M? | | | | | |
| 0123+50 | RZ Per %# | <9.4-13.7> | | 11m- | | +++++ | 23M+++++ | | | | | | | | -1m- | |
| 0125+02 | R Psc %# | <8.2-14.3> | +++++ | 20M+++++ | | | | | | ----- | 4m | ----- | | +++++ | 31M++++ | |
| *0127+46 | SX And | 8.6-14.6 | 13M? | | | | | 8m? | | | | | | 12M? | | |
| 0133+38 | Y And %# | <9.2-14.2> | | +++++ | 8M+++++ | | | ----- | 4m | ----- | +++++ | 15M+++++ | | ----- | 9m | ----- |
| 0149+58 | X Cas | <10.1-12.5> | | | | | | +++++ | 15M+++++ | | | | | | 18m | |
| 0152+54 | U Per | <8.1-11.3> | +++++ | 11M+++++ | | | | | | 2m | +++++ | | | | 25M++++ | |
| 0159+12 | S Ari %& | <10.9-15.2> | | | ----- | 16m | ----- | | | +20M+ | | | | ----- | | |

needs data & needs data urgently @ needs data very urgently % has CCDV/multicolor photometry but needs visual data

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|----------|-----------|-------------|---------------|---------|-------|-------|--------------|-------|-------|---------|-------|-------|--------|---------------|-------|-------|
| *0202+27 | Z Tri %& | 9.4-15.2 | 13m? | | | 24M? | | | 17m? | | | | 26M? | | | |
| *0204+48 | RV And | 9.0-11.5 | 24m? | | | 7M? | | | 15m? | | 26M? | | | | 2m? | |
| 0210+24 | R Ari | <8.2-13.2> | 25m | +++++ | 22M | +++++ | +++++ | +++++ | 30m | +++++ | 26M | +++++ | +++++ | +++++ | 2m | |
| 0211+43A | W And | <7.4-13.7> | | --19m-- | | | | +++++ | 16M | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| 0212+81 | Z Cep # | <10.8-15.4> | -----10m----- | | | | | 9M | | | | | | -----14m----- | | |
| 0214-03 | Omi Cet | <3.4-9.3> | +++++ | | | | | 1m | | | | | 16M | | | |
| 0220-00 | R Cet | <8.1-13.0> | +++++ | 17M | +++++ | | 21m | +++++ | 2M | +++++ | | 3m | | | 15M | +++++ |
| 0221+50 | RR Per | <9.2-14.4> | | | | | -----4m----- | | | | | | | +++++ | 25M | +++++ |
| 0224-26 | R For %& | <8.9-12.2> | +++++ | | | | | 16m | | +++++ | +++++ | +++++ | +++++ | 14M | +++++ | +++++ |
| *0226+46 | AX And %& | 9.7-14.7 | 23m? | | | | | | 27M? | | | | | | | 7m? |
| 0228-13 | U Cet %& | <7.5-12.6> | | +++++ | 21M | +++++ | +++++ | +++++ | | 1m | +++++ | 11M | +++++ | +++++ | +++++ | +++++ |
| 0229+80 | RR Cep | <10.2-14.7> | | | | | | | | | | | +++27M | +++ | | |
| 0231+33 | R Tri | <6.2-11.7> | 12m | | +++++ | 26M | +++++ | +++++ | +++++ | +++++ | 6m | | +++++ | 17M | | |
| *0242+37 | AI Per %& | 11.0-15.5 | | | | 3m? | | | 19M? | | | | 20m? | | | |
| 0242+17 | T Ari | <8.3-10.9> | +++++ | | | | | | | | | | | | | |
| 0250-50 | R Hor %@ | <6.0-13.0> | +++++ | 6M | +++++ | +++++ | +++++ | +++++ | +++++ | | 10m | | | | | |
| 0257-51 | T Hor %@ | <8.2-13.2> | +++++ | 3M | +++++ | +++++ | | 29m | | +++++ | 9M | +++++ | +++++ | | 1m | ++ |
| *0259+19 | RT Ari @ | 9.8-(15.0 | | | 5M? | | | | | 5m? | | | | 22M? | | |
| *0302+26 | Z Ari # | 10.2-(15.0 | 21M? | | | | | | | 26m? | | | | | 26M? | |
| 0305+14 | U Ari # | <8.1-14.6> | +++++ | | | | | | | | | | | 3m | +++++ | 3M |
| *0313+32 | TW Per & | 9.4-(15.0 | | | 18M? | | | | | | 15m? | | | | | 19M? |
| 0314-01 | X Cet | <8.8-12.3> | | +++++ | 18M | +++++ | 18m | +++++ | 12M | +++++ | 13m | +++++ | +++++ | +++++ | +++++ | +++++ |
| 0320+43 | Y Per | <8.4-10.3> | +++++ | 30m | +++++ | +++++ | +++++ | +++++ | 6M | +++++ | 4m | +++++ | +++++ | +++++ | +++++ | +++++ |
| 0323+35 | R Per %# | <8.7-14.0> | +++++ | 16M | +++++ | | | | | 27m- | +++++ | 14M | +++++ | | | |
| *0345+32 | RX Per | 9.4-(15.5 | | | 4M? | | | | | 20m? | | | | | | |
| 0346-25 | U Eri | <9.4-14.8> | +++++ | | | | | | | 4m- | +++++ | 14M | +++++ | | | |
| *0347+11 | IK Tau %@ | 12.3-15.8 | | | | 6M? | | | | | | | | | | 19m? |
| *0349-46 | U Hor %@ | 7.5-(14.0 | | | 25m? | | | | | 21M? | | | | | | 8m? |
| 0351-24 | T Eri | <8.0-12.8> | 13M | +++++ | +++++ | | 30m | +++++ | +++++ | 22M | +++++ | +++++ | +++++ | | 7m | |
| *0357+16 | TZ Tau %& | 11.5-14.5 | 2M? | | | | | 6m? | | | | | | | | |
| 0407-25 | W Eri %# | <8.6-13.8> | 7m--- | | | | +++++ | 9M | +++++ | +++++ | +++++ | +++++ | +++++ | 18m--- | | |
| *0419+16 | VX Tau %@ | 9.7-(15.0 | | | | | | 29M? | | | 20m? | | | | | 22M? |
| 0422+15 | W Tau | <9.9-11.4> | | +++++ | 5M | +++++ | +++++ | +++++ | | 21m | +++++ | 25M | +++++ | +++++ | +++++ | +++++ |
| 0422+09 | R Tau %& | <8.6-14.2> | | | +++++ | 3M | +++++ | +++++ | | | 7m- | ---- | | +++++ | 18M | |
| 0423+09 | S Tau %@ | <10.2-15.3> | -----21m----- | | | | | | | +++23M+ | | | | | | |
| 0430+65 | T Cam | <8.0-13.8> | ---29m | | +++++ | 10M | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6m | | |
| 0432+74 | X Cam | <8.1-12.6> | | 9m | +++++ | 8M | +++++ | 3m | +++++ | 30M | +++++ | 23m | +++++ | 20M | +++++ | +++++ |
| 0432+08 | RX Tau %& | <9.6-14.0> | | | +++++ | 30M | +++++ | | | | | | | | | |
| 0432-63 | R Ret %& | <7.6-13.3> | 20m | | | +++++ | 6M | +++++ | +++++ | | 26m | | | | | |
| 0437-38 | R Cae %@ | <7.9-13.1> | +++29M | +++++ | +++++ | +++++ | +++++ | +++++ | | | 19m | | | +++++ | 24M | |
| 0446+17 | V Tau | <9.2-13.7> | +++++ | | | | | | | | | | | | | |
| *0450-07 | SX Eri %@ | 9.6-(14.5 | | | 7M? | | | | 1m? | | | | | 16M? | | |
| *0452+56 | TX Cam | 8.1-(15.3 | 13M? | | | | | | | | | | | 23m? | | |
| 0453+07 | R Ori | <9.6-13.1> | +++ | | | | | | 17m | | | +++++ | 12M | +++++ | +++++ | +++++ |
| 0455-14 | R Lep | <6.8-9.6> | 14M | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13m | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |

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|-----------|-----------|-------------|----------------|------|-------------------|-------------------|-----------------|------------------|-----------------|-------------------|-------------------|-----------------|------------------|-----------------|------------|------------|
| *0459+35 | AQ Aur %& | 10.7-(15.5 | | | 3m? | | | | | | 16M? | | | | | 1m? |
| 0500+03A | V Ori & | <9.4-14.1> | | | -----27m----- | | | +++++++11M++++++ | | | | | -----16m---- | | | |
| 0500-22 | T Lep | <8.3-12.9> | +++++++ | | | | | 1m | | | +++++++20M+++++++ | | | | | |
| 0508-48 | S Pic %@ | <8.1-13.8> | +++++++ | | | | | | | ----15m-- | | | | | +++++++21M | |
| 0509+53 | R Aur | <7.7-13.3> | | | | | | | 18M+++++++ | | | | | | | 6m |
| 0512-47 | T Pic %@ | <8.4-13.9> | +++++++ | | -25m- | | | +++++++8M+++++++ | | | | -11m- | | +++++++24M+++++ | | |
| *0513-16 | X Lep @ | 8.8-15.6 | | | | | 9M? | | | | | 5m? | | | | 11M? |
| 0515-33 | T Col %# | <7.5-11.9> | | 4m | | +++++++28M+++++++ | | | | 18m | | | +++++++9M+++++++ | | | |
| 0520+36 | W Aur %# | <9.2-14.6> | +++++++ | | | -----19m----- | | | | +++++++16M+++++++ | | | | | -----17m- | |
| 0524-04A | S Ori | <8.4-12.9> | +++++++ | | | +++++++28M+++++++ | | | | | | | | 23m | | +++ |
| *0526+07 | BK Ori & | 9.0-14.0 | | | | 3m? | | | | 11M? | | | | | | 27m? |
| 0530+68 | S Cam | <8.1-11.0> | +++++++ | | | | | | | | | | | | | 13M+++++++ |
| *0532-01 | X Ori & | 9.3-(15.0 | | | | 30M? | | | | | | | | 15m? | | |
| 0533+37 | RU Aur %& | <9.6-14.5> | | | +++++++14M+++++++ | | | | | | | | | -----20m----- | | |
| *0535+38 | SZ Aur %# | 8.6-15.2 | | | | 10m? | | | | | | 1M? | | | | |
| 0535+31 | U Aur %# | <8.5-14.0> | ---24m--- | | | | | +++++++9M+++++++ | | | | | | | | ----- |
| *0536-04 | Y Ori %# | 9.3-(15.5 | | | | 28m? | | | 12M? | | | | | 24m? | | |
| 0543-31 | S Col %# | <9.3-13.8> | +++++4M+++++ | | | | | | | | | | | +++++27M+++++ | | |
| 0546+15A | Z Tau | <9.8-13.9> | - | | | +++14M++++ | | | | | | | | -----22m----- | | |
| 0546+15C | RU Tau | <10.4-15.1> | 13m----- | | | | | | | +++++5M+++++ | | | | | | |
| 0546-29 | R Col & | <8.9-14.3> | | | | -----7m----- | | | | +++++15M+++++ | | | | | | ----- |
| 0549+74 | V Cam | <9.9-15.4> | ----- | | | | | +++24M+++++ | | | | | | | | ----- |
| *0549+32 | AY Aur %# | 10.0-(15.0 | | | | | | | 4M? | | | | | 2m? | | |
| 0549+20A | U Ori | <6.3-12.0> | +++++++1M+++++ | | | | | | | | | 13m | | +++++++ | | |
| *0554+39 | AZ Aur | 9.5-14.1 | | | | 18M? | | | | | | | | | | 31m? |
| 0556-86 | R Oct %@ | <7.9-12.4> | | 10m | | | | | +++++++11M+++++ | | | | | | | |
| *0557+16 | RR Ori | 9.4-15.0 | | 12m? | | | | 8M? | | | | | 22m? | | | 15M? |
| *0602+46 | VY Aur | 10.3-14.7 | | | | 8M? | | | | | | 30m? | | | | |
| 0604+50 | X Aur | <8.6-12.7> | +++++++ | | 15m | | +++++++8M+++++ | | | 26m | | +++++++19M+++++ | | | | 6m |
| *0604+43 | RR Aur | <9.4-13.7> | | | | 29m? | | | | | 6M? | | | | | 31m? |
| *0607+46A | ST Aur %@ | 10.3-15.8 | | | | 5M? | | | | 7m? | | | | 22M? | | |
| *0612+75 | W Cam @ | 9.5-15.5 | | | | | | 6M? | | | | 29m? | | | | 14M? |
| 0616+47 | V Aur | <9.2-12.1> | | | 2m | | +++++++31M+++++ | | | | | | | | | 18m |
| *0617+25 | ZZ Gem # | 9.0-12.2 | | | | | 23m? | | | | | | 6M? | | | |
| 0617-02 | V Mon %# | <7.0-13.1> | | | | +++++++20M+++++ | | | | | | 18m | | | +++++++ | |
| *0618+50 | GO Aur @ | 9.7-14.8 | | | | 4M? | | | | 5m? | | | | | | 24M? |
| *0618+24 | CD Gem @ | 10.9-(15.7 | | | 26m? | | | | 24M? | | | | | 23m? | | |
| *0619+47 | GQ Aur | 10.4-(15.2 | 15M? | | | | | | 9m? | | | | 15M? | | | |
| *0619+25 | VV Gem & | 10.1-14.8 | | | 13M? | | | | 11m? | | | | 24M? | | | 19m? |
| *0625+74 | SU Cam %# | 9.2-15.0 | | | | 22m? | | | | 3M? | | | | 4m? | | |
| *0625+64 | RT Cam # | 9.3-(15.0 | | | | | | 18m? | | | | | 25M? | | | |
| 0631+59 | U Lyn | <9.5-14.4> | | | | | | | -----20m----- | | | | +++++++11M+++++ | | | |
| *0632-01 | SY Mon @ | 7.3-15.0 | | | | | | | 6M? | | | | | 24m? | | |
| *0634+44A | AA Aur | 9.2-(15.5 | | | 13M? | | | | | 9m? | | | 11M? | | | |
| 0635+58 | S Lyn %# | <9.6-14.3> | ---24m--- | | | | | +++++++6M+++++ | | | | | -----16m----- | | | ++ |

needs data & needs data urgently @ needs data very urgently % has CCDV/multicolor photometry but needs visual data

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|-----------|-----------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------|------------|-------------------|------------------|-------------------|---------|--------|
| 0640+30 | X Gem | <8.2-13.2> | | | 13m | | +++++++3M+++++++ | | | | | | | 2m | +++++++ | |
| *0640+13A | UY Gem %& | 11.0-(15.0) | 25m? | | | | | 21M? | | | | | | 16m? | | |
| *0641+08 | ST Mon %@ | 9.9-15.7 | | | 3m? | | | | | | | 7M? | | | | |
| *0641-36 | CH Pup %@ | 8.4-15.3 | | | 2M? | | | | | | | | | 4m? | | |
| 0651+11 | Y Mon %@ | <9.1-13.9> | --- | | +++++++19M+++++++ | | | | -15m--- | | | +++++++3M+++++++ | | | | |
| 0652-08 | X Mon | <7.4-9.1> | +++++++9M+++++++ | +++++++25M+++++++ | +++++++15M+++++++ | +++++++28M+++++++ | +++++++18M+++++++ | +++++++ | | | | | | | | |
| 0653+55 | R Lyn | <7.9-13.8> | 7m--- | | +++++++25M+++++++ | | | | | | | | | | | -21m-- |
| *0655+10A | BI Mon %& | 10.1-(16.0) | | | | | | 25m? | | | | | 14M? | | | |
| 0701+22A | R Gem | <7.1-13.5> | +++++++ | | | | | | 19m | | | +++++++31M+++++++ | | | | |
| 0701+09 | V Cmi @ | <8.7-14.9> | +++29M+++++++ | | | | -----25m----- | | | | | | | +++++++30M+++++++ | | |
| *0702+05 | RS Mon %& | 9.4-(15.3) | | | | 29M? | | | 9m? | | | | | | | 17M? |
| 0703+10 | R Cmi # | <8.0-11.0> | +++++++11m+++++++ | | | | | | | | | | | 22M+++++++ | | |
| *0706+07 | WX Cmi %@ | 10.5-(15.5) | | 11m? | | | | | | 23M? | | | | | | |
| *0706-19A | SY Cma %& | 8.8-14.2 | 15M? | | | | 16m? | | | 23M? | | | | 22m? | | |
| *0707+17 | UZ Gem %@ | 8.8-(15.0) | | | | | | 25m? | | | | | 4M? | | | |
| *0707+14 | VX Gem | 8.4-13.1 | | | | 19M? | | | | | | | 12m? | | | |
| 0707-72 | R Vol %@ | <10.8-13.7> | | | +++++++6M+++++ | | | | | | | | | | 26m | |
| *0710+39 | HT Aur %& | 9.5-(15.5) | 7m? | | | | 25M? | | | | | | 31m? | | | |
| *0710+26 | WZ Gem # | 9.5-16.0 | 6m? | | | | | 25M? | | | | | | 3m? | | |
| 0712+01 | RR Mon %# | <9.4-15.0> | - | +++++++21M+++++ | | | | | | | | | -----19m----- | | | |
| 0717+13 | V Gem & | <8.5-14.2> | ---30m--- | | +++++++29M+++++++ | | | | | | | -----31m--- | | +++++++27M | | |
| *0720-05 | TT Mon %@ | 7.3-(14.0) | | | | | 7M? | | | | | | 8m? | | | |
| *0721+41 | VX Aur %@ | 8.6-12.9 | | 15m? | | | | | | 13M? | | | | | 3m? | |
| 0727+08 | S Cmi | <7.5-12.6> | +++++++ | | | | 4m | | +++++++11M+++++++ | | | | | | | |
| 0728+11 | T Cmi %@ | <10.5-14.0> | ---30m-- | | | | +++++++5M+++ | | | | | | -----24m-- | | | |
| 0728-20B | Z Pup %# | <8.1-14.5> | ----- | | | | +++++++27M+++++++ | | | | | | | | | |
| 0731-73 | S Vol %@ | <8.6-13.6> | | | +++++++18M+++++++ | | | | | | | | -----28m- | | | |
| *0732+34 | ST Gem %@ | 8.8-14.5 | | | 12m? | | | | 14M? | | | | 14m? | | | |
| *0733+36 | RU Lyn %@ | 9.5-(15.5) | | | | | 21m? | | | 26M? | | | | | 19m? | |
| 0735+08 | U Cmi | <8.8-13.0> | | | 29m | | +++++++24M+++++++ | | | | | | | | | |
| 0737+23 | S Gem | <9.0-14.2> | | +++++++14M+++++++ | | | | | -----31m----- | | | | +++++++2M+++++++ | | | |
| *0739+14 | BE Gem %@ | 10.1-(15.5) | | | | 17M? | | | | | | | 20m? | | | |
| 0742-41 | W Pup %& | <8.4-12.4> | 26m+++++++ | 19M+++++++ | | | 25m | +++++++16M+++++++ | | 22m+++++++ | 13M+++++++ | | | 20m | +++++++ | |
| 0743+23 | T Gem %@ | <8.7-14.0> | 5m--- | | +++++++31M+++++++ | | | | | -----19m--- | | | +++++++ | | | |
| *0753+20 | BP Gem & | 9.8-15.9 | | | | 7m? | | | 28M? | | | | | 10m? | | |
| 0756-12 | U Pup %@ | <9.8-14.1> | ----- | | ++++11M+++++ | | | | | -----30m----- | | | | ++++23M | | |
| *0805+23 | RR Cnc %@ | 8.9-(15.0) | | | 29m? | | | | 15M? | | | | | | 21m? | |
| *0807+14 | SU Cnc %# | 10.5-(15.4) | 6m? | | | 8M? | | | 12m? | | | 12M? | | | 15m? | |
| *0808+37 | RT Lyn | 9.1-15.2 | | | | | | 4m? | | | | | | 13M? | | |
| *0810+40 | W Lyn %& | 9.3-(15.5) | | | 20M? | | | | | | 21m? | | | 10M? | | |
| 0811+12 | R Cnc | <6.8-11.2> | +++++++3m | | +++++++1M+++++++ | | | | | | | | | | | 27m |
| *0813-34 | TU Pup %@ | <9.9-13.9> | | | 2m? | | | | 2M? | | | 27m? | | | | 26M? |
| *0816+33 | T Lyn | 9.0-13.0 | | | 18m? | | | | | 10M? | | | | | | |
| 0816+17 | V Cnc | <7.9-12.8> | +++++++ | | | | 27m | | +++++++28M+++++++ | | | | | | | 23m |
| *0819+35 | X Lyn %& | 9.3-15.5 | 25m? | | | | | 15M? | | | | | | 11m? | | |

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| 0824-76 | R Cha | %# <8.5-13.6> | 15m---- | | | ++++++21M++++++ | | | | | | | -----15m---- | | | |
| 0830+19 | U Cnc | %# <9.9-14.6> | ----- | | | +++21M+++++ | | | | | | -----22m----- | | | | ++20M+ |
| *0830+13 | UY Cnc | %& 10.5-15.3 | | | | 11M? | | | 15m? | | | | 25M? | | | |
| 0833+50 | X UMa | <9.7-14.4> | | | | -----21m----- | | | ++++++4M+++++ | | | | -----26m----- | | | |
| 0848+03 | S Hya | & <7.8-12.7> | | | | ++++++2M++++++ | | | 10m | | | | ++++++14M++++++ | | | |
| 0850-08 | T Hya | <7.8-12.6> | ++++++7M++++++ | | | | | 5m | | | | | ++++++23M++++++ | | | |
| *0852-02 | WW Hya | %& 8.8-14.4 | | | | | | 21m? | | | | 19M? | | | | |
| *0853-00 | TU Hya | %& 9.6-(15.5 | | | | | 8M? | | | | | 22m? | | | | 9M? |
| 0900-24 | S Pyx | %& <9.0-13.9> | 13m | | | ++++++23M++++++ | | | | 7m | | | ++++++15M++++++ | | | -- |
| 0904+25 | W Cnc | <8.2-14.1> | | | | ++++++26M++++++ | | | | | | | -----19m----- | | | |
| *0911-04 | UZ Hya | 9.1-14.1 | 19M? | | | | | 6m? | | | | 7M? | | | | 22M? |
| 0918-68 | RW Car | %@ <9.3-15.0> | +++++ | | | -----23m----- | | | | | | ++++++19M++++++ | | | | --- |
| 0925-51 | Y Vel | %@ <9.5-13.8> | | | | -----30m----- | | | | | | | ++++++25M++++++ | | | |
| 0929-62 | R Car | <4.6-9.6> | 13M++++++ | | | | | 19M++++++ | | | | | 18M++++++ | | | |
| 0930-14 | X Hya | %& <8.4-12.8> | 4M++++++ | | | | | 18m | | | | | ++++++1M++++++ | | | |
| 0931+78 | Y Dra | <9.2-14.5> | ++++++19M++++++ | | | | | -----22m----- | | | | | ++++++10M++++++ | | | |
| *0933-20 | ST Hya | %& 9.0-14.5 | | | | 19m? | | | 24M? | | | | | | 17m? | |
| *0937+20 | RS Leo | 9.7-(15.5 | | | | 14m? | | | 6M? | | | | 8m? | | | 30M? |
| 0939+34 | R LMi | & <7.1-12.6> | +++30M++++++ | | | | | | 6m | | | | ++++++6M+++++ | | | |
| 0940-23 | RR Hya | %# <9.3-14.4> | +++26M++++++ | | | -----23m----- | | | | | | | ++++++5M++++++ | | | |
| 0942+11 | R Leo | <5.8-10.0> | ++++++6m++++++ | | | | | 16M++++++ | | | | | ++++++10m++++++ | | | |
| 0947+35 | S LMi | <8.6-13.9> | ----17m---- | | | ++++++26M++++++ | | | | ----8m---- | | | ++++++15M++++++ | | | |
| 0948+36 | U LMi | <10.8-12.7> | | | | 2m | | | +22M+ | | | | | | 30m | |
| 0949-53 | Z Vel | %@ <9.0-14.3> | | | | -----3m----- | | | | | | | ++++++13M++++++ | | | |
| 0954+21 | V Leo | <9.1-13.7> | | | | ++++++15M++++++ | | | | --21m--- | | | ++++++13M++++++ | | | |
| 0955-63 | RV Car | %@<11.3-16.2> | | | | -----10m----- | | | | | | | 4M | | | - |
| 1006-61 | S Car | # <5.7-8.5> | ++23M++++++ | | | 11M++++++ | | | 22M++++++ | | | | 8M++++++ | | | 18M++++++ |
| 1010-58A | Z Car | %@<10.7-15.2> | 13M+ | | | -----7m----- | | | | | | | | | | +++1M+ |
| *1010-58B | AF Car | %@ 9.7-(14.5 | | | | 24m? | | | | | | | | | 16M? | |
| 1011-53 | W Vel | %@ <8.8-13.6> | ++++++31M++++++ | | | | | | 28m | | | | | | ++++++ | |
| 1029+00 | S Sex | <9.1-13.4> | | 12m | | | | ++++++8M++++++ | | | | | 4m | | | +++++ |
| 1032-70 | RZ Car | %@<10.0-15.4> | -----15m----- | | | | | ++++++29M+++++ | | | | | -----12m----- | | | |
| 1037+69 | R UMa | <7.5-13.0> | +++27M++++++ | | | | | 31m | | | | | ++++++25M++++++ | | | |
| 1046-28 | RS Hya | %@<10.0-14.1> | ++++++18M++++++ | | | | | -----11m----- | | | | | ++++++23M++++++ | | | |
| 1048+14 | W Leo | <9.8-14.2> | ++++++19M++++++ | | | | | | | | | | -----25m----- | | | +++ |
| 1105+06 | S Leo | <10.1-13.9> | | | | ----9m-- | | | ++++++7M+++++ | | | | ----16m-- | | | +++15M+++ |
| *1107-06 | U Crt | % 9.0-(14.0 | | | | 24m? | | | 28M? | | | | 12m? | | | 14M? |
| 1115-61 | RY Car | %@<11.0-14.0> | 8M | | | -----21m----- | | | | | | | | | | |
| 1116-61 | RS Cen | %@ <8.6-13.4> | | | | ++++++12M++++++ | | | 7m | | | | ++++++24M++++++ | | | 19m |
| *1136+39 | RU UMa | 8.3-15.1 | 9M? | | | | | 12m? | | | | | 18M? | | | 19m? |
| 1144-41 | X Cen | %@ <8.0-13.4> | 17m | | | ++++++24M++++++ | | | | | | | 28m | | | ++++ |
| 1150-58 | W Cen | %@ <8.5-13.2> | | | | ++++++13M++++++ | | | 1m | | | | ++++++1M++++++ | | | 19m |
| 1159+19 | R Com | <8.5-14.2> | | | | -----17m----- | | | | | | | ++++++10M++++++ | | | ----- |
| 1200+12 | SU Vir | %& <9.4-13.6> | | | | +++19M++++++ | | | 14m | | | | +++16M++++++ | | | 8m |
| 1209-05 | T Vir | %& <9.6-14.2> | ++++ | | | -----3m----- | | | | | | | ++++++4M++++++ | | | |

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|-----------|-----------|--------------|---------|-------|---------------|-------|-------|------|----------|-------|-------|-----------|-----------|-----|-----------|-------|
| 1214-18 | R Crv | <7.5-13.8> | +++++ | | | | ---8m | | | +++++ | 28M | +++++ | | | | |
| 1220+01 | SS Vir | <6.8-8.9> | +++++ | | | | | 8M | +++++ | | | | | 23m | +++++ | |
| 1225+32 | T CVn | <9.6-11.9> | +++++ | | | | | | 19m | +++++ | | | | 20M | +++++ | |
| 1228-03 | Y Vir | <9.4-13.6> | | | ---9m--- | | +++++ | 24M | +++++ | | | ---14m--- | | | +++++ | 29M |
| 1228-54 | U Cen %@ | <8.2-13.4> | | | 21m | +++++ | | 2M | +++++ | | | 29m | +++++ | | 8M | +++++ |
| *1229-17 | U Crv %@ | 9.6-15.9 | | | | | | 13m? | | | | 4M? | | | | |
| 1231+60 | T UMa | <7.7-12.9> | | | 24m | +++++ | | 8M | +++++ | | | 7m | +++++ | | 19M | + |
| *1233+66 | RV Dra | <9.2-13.7> | | | 9M? | | | 27m? | | | | 5M? | | | 22m? | |
| 1233+07 | R Vir | <6.9-11.5> | +++++ | | | | | 1m | +++++ | 15M | +++++ | | | 24m | +++++ | 7M |
| 1234+59 | RS UMa | <9.0-14.3> | | | ---26m--- | | | | 3M | +++++ | | | ---10m--- | | | ++++ |
| 1239+61 | S UMa | <7.8-11.7> | +++++ | | | | | 22M | +++++ | | | 21m | +++++ | | 6M | +++++ |
| *1242+38 | U CVn | 8.8-15.5 | | | 24M? | | | | | | | | | | 3m? | |
| 1242+04 | RU Vir | <10.0-13.3> | | | +++19M | +++++ | | | | | | 26m-- | | | | |
| 1246+06 | U Vir %& | <8.2-13.1> | +++++ | | | | | 17M | +++++ | | | 5m | +++++ | | 10M | +++++ |
| 1302-12 | RV Vir %& | <10.8-14.9> | ---- | | | | | 16m | ---- | | | 29M | ---- | | 7m | ---- |
| 1312-83 | U Oct %@ | <7.9-13.6> | +17M | +++++ | | | | | | | | -26m- | +++++ | | 21M | +++++ |
| 1315+46 | V CVn | <6.8-8.8> | +++28m | +++++ | | | | | 7M | +++++ | | | | 8M | +++++ | 15M |
| *1322+62 | RR UMa | 8.7-14.8 | | | | | | 6m? | | | | | | | 14M? | |
| 1322-02 | V Vir | <8.9-14.3> | | | -----16m----- | | | | | +++++ | | | | 1M | +++++ | |
| 1324-22 | R Hya | <4.5-9.5> | +++++ | | | | | | 13m | +++++ | | | | | 3M | +++++ |
| 1327-06 | S Vir | <7.0-12.7> | +++++ | | | | | | 14M | +++++ | | | | | 7m | +++++ |
| 1331-55 | RV Cen | <7.7-10.3> | +++++ | | | | | | | | | | | | 27M | +++++ |
| 1332+73 | T UMi | <9.2-14.0> | ++ | | | | | | ---9m--- | | | | | 5M | +++++ | |
| 1336-33 | T Cen | <5.5-9.0> | +17M | +++++ | | | | | 4m | +++++ | | | | 18M | +++++ | 2m |
| 1342-36 | RT Cen %@ | <9.0-12.7> | 15m | | | | | | | | | | | | 4M | +++++ |
| *1343-27 | W Hya | 5.7-10.0 | | | | | | | | | | | | | 25m? | |
| 1344+40 | R CVn | <7.7-11.9> | ++++ | | | | | | | | | | | | 9M | +++++ |
| *1344+34 | RT CVn | 9.9-(15.0) | 19M? | | | | | | | | | | | | 12m? | |
| 1345-36 | RX Cen %@ | <9.4>-(15.0) | +19M | +++++ | | | | | | | | | | | ---5m--- | |
| 1346-77 | T Aps %@ | <9.1-14.7> | ++22M | +++++ | | | | | | | | | | | 25m | ---- |
| *1353-04 | SY Vir %& | 9.0-15.0 | | | | | | | | | | | | | 17M? | |
| 1359-08 | RR Vir | <11.6-15.5> | | | | | | | | | | | | | 27m? | |
| 1401+13 | Z Boo | <9.3-14.8> | | | | | | | | | | | | | 28M | |
| 1405-12A | Z Vir %& | <10.4-14.9> | 1M | +++++ | | | | | | | | | | | ---12m--- | |
| 1405-28 | RU Hya %& | <8.4-14.0> | | | | | | | | | | | | | 2m | ---- |
| 1409-59 | R Cen | <5.8-11.1> | 12m (I) | +++++ | | | | | | | | | | | 14M (II) | +++++ |
| 1415+67 | U UMi | <8.2-12.0> | ++ | | | | | | | | | | | | 5m | +++++ |
| 1419+54 | S Boo | <8.4-13.3> | | | | | | | | | | | | | | 10M |
| 1422+05 | RS Vir | <8.1-13.9> | | | | | | | | | | | | | | 9m |
| 1425+84 | R Cam | <8.3-13.2> | 13m | | | | | | | | | | | | | 16M |
| 1425+39 | V Boo | <7.0-11.3> | ++++ | | | | | | | | | | | | | 9M |
| 1432+27 | R Boo | <7.2-12.3> | ++++ | | | | | | | | | | | | | 15M |
| 1434-17 | V Lib # | <9.7-14.7> | ---- | | | | | | | | | | | | | 8m |
| *1437-19A | SX Lib # | 9.2-(15.5) | | | | | | | | | | | | | | 28M |
| *1443+39 | RR Boo | <8.8-12.7> | | | | | | | | | | | | | | 11m? |

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|----------|--------|----------------|-------------------|---------------|---------------|---------------|----------------------|---------------|---------------|---------------|--------------|---------------|-----|---------------|-------------|-------|
| 1446-46A | S Lup | %@ <8.6-13.0> | +++++ | | | | 15m | | | | +++++2M+++++ | | | | | |
| 1449+18 | U Boo | 9.9-12.8 | +++ | | 23m | | +++++1M+++++ | | | 10m | | +++++18M+++++ | | | | |
| 1452-54 | Y Lup | %@ <9.8-15.1> | +++++ | | | | | | | 4m | | | | +++++23M+++++ | | |
| 1500-18 | RT Lib | %& <9.0-14.3> | ---28m--- | | | +++++4M+++++ | | | | | | ---20m--- | | +++++24M | | |
| 1505-19 | T Lib | %@ <10.9-15.2> | -----10m----- | | | | 22M | | | | | -----2m----- | | | 14M | |
| 1506-05 | Y Lib | %& <8.6-14.1> | -----3m--- | | | +++++22M+++++ | | | | | | -----4m--- | | | +++++ | |
| *1513+36 | RT Boo | 8.9-14.0 | | | 8m? | | | | 1M? | | | | | 6m? | | |
| 1515-20 | S Lib | <8.4-12.0> | +++++15M+++++ | | | | +++++8M+++++27M+++++ | | | | | | | +++++17M+++++ | | |
| 1517+31 | S CrB | <7.3-12.9> | +++++ | | | 14m | | | | +++++21M+++++ | | | | | | |
| 1517+14 | S Ser | <8.7-13.5> | | | --17m | | | | | +++++20M+++++ | | | | | | |
| 1518-22 | RS Lib | <7.5-12.0> | +++++18M+++++ | | | | 11m | | | +++++23M+++++ | | | | 15m | | ++++ |
| *1527+03 | WW Ser | 10.3-14.6 | | 20M? | | | | | | 1m? | | | | | | 20M? |
| 1527-14 | RU Lib | %# <8.1-14.0> | | | -----27m--- | | | | | +++++13M+++++ | | | | | | ----- |
| 1528-49A | R Nor | <7.2-13.2> | +++++26M(II)+++++ | | | | | | | | | 29m(II)+++++ | | | +++++19M(I) | |
| 1530-20 | X Lib | %@ <11.0-13.5> | | 20M | | | 3m | | 4M | | | 14m | | 15M | | |
| 1532-15 | W Lib | %@ <11.1-15.0> | ----- | 20M | | | -----20m----- | | | 11M | | | | -----11m--- | | |
| 1533+78A | S UMi | <8.4-12.0> | +++++8M+++++ | | | | | | | 16m | | | | +++++15M+++++ | | |
| 1536-20A | U Lib | <9.6-14.4> | --- | +++++14M+++++ | | | -----24m----- | | | +++++26M+++++ | | | | ----- | | |
| 1536-54 | T Nor | %@ <7.4-13.2> | 19m | | +++++29M+++++ | | | | | 16m | | +++++25M+++++ | | | | |
| *1540-20 | Z Lib | %@ 11.7-(15.5 | | | 11m? | | | | | 5M? | | | | | | 4m? |
| 1545+36 | X CrB | <9.1-13.6> | | +++++14M+++++ | | | | -23m | | +++++11M+++++ | | | | | | |
| 1546+39 | V CrB | <7.5-11.0> | 7M+++++ | | | | | | | 13M+++++ | | | | 30M+++++ | | |
| 1546+15 | R Ser | <6.9-13.4> | +++++ | | 13m | | | | | +++++12M+++++ | | | | | | |
| 1547-15 | Lib | %# <10.3-14.8> | --- | +25M+++++ | | | | -----19m----- | | +24M+++++ | | | | ----- | | |
| 1547-36 | R Lup | %@ <10.1-14.1> | | --3m | | | +++++3M+++++ | | | -24m | | | | +++++23M | | |
| 1550-18 | RR Lib | %& <8.6-14.2> | 3M+++++ | | -----19m----- | | | | | +++++7M+++++ | | | | -----20m--- | | |
| 1552+29 | Z CrB | <10.0-14.6> | 12m----- | | +++++26M++++ | | | | | -----20m----- | | | | +++++2M++++ | | |
| *1555+02 | BC Ser | 9.4-15.4 | | | 20M? | | | | 6m? | | | 20M? | | | | |
| 1558-23 | RZ Sco | %# <8.8-12.2> | +++++3M+++++ | | | 27m | +++++9M+++++ | | | 1m | | +++++13M+++++ | | | | |
| 1600-21 | Z Sco | %& <9.2-13.4> | ++++ | | | 27m | | | | +++++17M+++++ | | | | | | |
| 1601+18 | R Her | <8.8-14.6> | | +++++2M+++++ | | | | | | -----13m----- | | | | +++++15M+++++ | | |
| 1602+10 | U Ser | <8.5-13.4> | | 10m | | | +++++3M+++++ | | | 6m | | | | +++++26M++++ | | |
| 1602-21A | X Sco | %& <11.0-14.3> | | 15M | | | -----27m--- | | | +2M | | | | -----12m----- | | |
| 1605-19 | W Sco | %@ <11.5-14.6> | 7m----- | | 20M | | | | | -----16m----- | | | 27M | | | ----- |
| 1606+25 | RU Her | <8.0-13.7> | +++++ | | | | | | | -----10m----- | | | | | | |
| *1607+10 | DN Her | 9.9-14.5 | | | 17m? | | | | 2M? | | | 29m? | | | | 13M? |
| *1608+25 | VV Her | %# 10.2-16.0 | | 8M? | | | | | | 7m? | | | | | | |
| 1611+38 | W CrB | <8.5-13.5> | +++++ | | | 1m | | | +++++15M+++++ | | | | 25m | | | |
| 1611-22A | R Sco | %# <10.4-15.0> | + | | -----1m----- | | | | ++++4M++ | | | -----11m----- | | | ++ | |
| 1611-22B | S Sco | %# <10.5-14.6> | -----4m----- | | +30M | | | | -----1m----- | | | +25M | | -----26m--- | | |
| *1613+26 | NP Her | %# 9.3-12.8 | | | | 15M? | | | | | | | | 11m? | | |
| 1616-07 | W Oph | %& <9.9-14.5> | | | +++++12M++++ | | | | | -----28m----- | | | | +++++8M+++ | | |
| 1621+19 | U Her | <7.5-12.5> | +++++ | | | | | | 18m | | | +++++19M+++++ | | | | |
| 1621-12 | V Oph | <7.5-10.2> | +++++23M+++++ | | | | | | | | | +++++18M+++++ | | | | |
| 1623-19 | Y Sco | %@ <11.3-15.0> | ----- | | 27M | | | | | -----24m----- | | | | | | |

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|-----------|-------------|-------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|---------------|
| *1626+23 | DO Her | 10.3-(16.0 | | | 20M? | | | 14m? | | | 22M? | | | | 15m? | |
| 1628+07A | SS Her | <9.2-12.4> | 3m | +++++24M+++++ | 20m | | +++++11M+++++ | 6m | +++++27M+++++ | 21m | | +++++12M+++++ | | | | |
| 1628-15 | T Oph | <9.8-(14.0> | | -----2m----- | | | +++++11M+++++ | | | | | | | | | |
| 1628-16 | S Oph %& | <9.5-14.5> | | -----2m----- | | +++++8M+++++ | | | | -----21m----- | | +++++27M+++++ | | | | |
| 1631+72 | R UMi | <9.1-10.4> | | +++++4m+++++ | | +++++17M+++++ | | +++++24m+++++ | | | | | | | | |
| 1631+37 | W Her | <8.3-13.5> | | | 16m | | +++++20M+++++ | | | | 21m | | | | ++ | |
| 1632+66 | R Dra | <7.6-12.4> | ++ | | 5m | | +++++22M+++++ | | | 5m | | +++++22M | | | | |
| *1634+14 | AS Her | 8.3-14.1 | | 2M? | | | 12m? | | | | 29M? | | | | | |
| *1640+12 | UV Her | 8.8-14.1 | 9m? | | | | 10M? | | | | | 17m? | | | | |
| 1643-19 | RR Oph | <8.9-14.6> | | ----- | | +++++27M+++++ | | | | -----5m----- | | +++++13M++ | | | | |
| 1647+15 | S Her | <7.6-12.6> | | +++++8m+++++ | | 11m | | +++++25M+++++ | | | | | | | | |
| *1647+05 | RX Oph %# | 9.0-(15.5 | | | 8M? | | | | | | 24m? | | | | | 25M? |
| 1648-44 | RS Sco %& | <7.0-12.2> | | +++++2M+++++ | | | | 20m | | +++++19M+++++ | | | | | | |
| *1650+07 | V970 Oph | 10.0-16.5 | 20m? | | | 18M? | | | | | 22m? | | | | | 17M? |
| 1650-30 | RR Sco # | <5.9-11.8> | | +++++12m | | +++++24M+++++ | | | | | | | | | | 18m |
| 1652-02 | SS Oph | <8.7-13.5> | | 5m-- | | +++++2M+++++ | | 5m-- | | +++++29M+++++ | | | | | | -1m-- |
| 1656+31 | RV Her | <10.1-14.8> | | +++23M+++ | | | -----19m----- | | ++++16M++++ | | | -----10m----- | | | | |
| 1656-36 | RT Sco %@ | <8.2>-14.6 | | +++++5M+++++ | | | | | | | | | | | | -----22m----- |
| *1657+22 | SY Her | 7.8-13.2 | 20m? | | 14M? | | 17m? | | 9M? | | 10m? | | 2M? | | 5m? | 27M? |
| *1702+17 | VY Her # | 9.3-15.5 | | | 20m? | | | | 13M? | | | | | | | 14m? |
| 1702-15 | R Oph | <7.6-13.3> | | +++++23M+++++ | | | | 10m | | | +++++26M+++++ | | | | | |
| 1706+27A | RT Her | <9.4-15.0> | | ++23M+++++ | | | -----21m----- | | | +++++17M+++++ | | | | | | |
| 1708-33 | RW Sco %@ | <9.6>-15.0 | | | -----18m----- | | | | | +++21M+++++ | | | | | | |
| 1714+01 | Z Oph | <8.1-12.7> | | 1M+++++ | | | | 8m | | | +++++16M+++++ | | | | | |
| 1717+23 | RS Her | <7.9-12.5> | | +++29M+++++ | | | 2m | | +++++5M+++++ | | | | | | 7m | |
| *1719+04A | V759 Oph %& | 9.8-13.6 | | | 15m? | | | 9M? | | | | | | | | 18m? |
| 1724-86 | S Oct %& | <8.4-13.5> | | +++29M+++++ | | | 26m | | | +++++15M+++++ | | | | | | |
| *1726+18 | UZ Her | 8.3-15.5 | | | 4m? | | | 8M? | | | | | | | | 24m? |
| 1728+09A | RU Oph | <9.3-13.8> | | | -18m-- | | +++++16M+++++ | | | --6m-- | | +++++4M+++++ | | | | |
| 1735-43 | RU Sco %@ | <9.0-13.0> | | 3M+++++ | | | 24m | | | | +++++8M+++++ | | | | | |
| *1740+21 | CF Her # | 9.1-15.9 | | 7M? | | | | | 3m? | | | | 11M? | | | |
| 1741-35 | SV Sco %& | <9.8-14.8> | | +++27M+++++ | | | | ---19m--- | | | +++++16M+++++ | | | | | |
| 1741-62 | W Pav %@ | <9.0-14.1> | | -----24m----- | | | +++++14M+++++ | | | | | -----1m----- | | | | |
| 1745-51 | U Ara %@ | <8.4-13.6> | | 17m | | | +++++31M+++++ | | | | 1m | | +++++11M+++++ | | | |
| 1751+11 | RT Oph | <9.6-15.1> | | | -----3m----- | | | | | +++++13M+++++ | | | | | | -- |
| 1754+58A | T Dra | <9.6-12.3> | | 28m | | | +++++2M+++++ | | | | | | | | | |
| *1754+23A | FU Her %@ | 11.1-15.8 | | | | 26m? | | 23M? | | | | 25m? | | | | 21M? |
| *1755+23 | WY Her %@ | 9.2-(15.5 | | | | | 18m? | | | | | 9M? | | | | |
| 1755+19 | RY Her | <9.0-13.8> | | ++ | | ---23m-- | | +++++1M+++++ | | | ---30m-- | | +++++8M+++ | | | |
| 1756+54 | V Dra | <9.9-14.2> | | --- | | | +++++16M+++++ | | | -----17m----- | | | | | | +++++18M+ |
| *1757+18 | WZ Her | 10.8-(15.0 | | | 28M? | | | | 1m? | | | | 30M? | | | |
| *1802+20B | DF Her %& | 10.1-14.3 | | | 22m? | | | | | 1M? | | | | | | 23m? |
| *1802-22 | VX Sgr | 6.7-13.3 | | | | | | 21M? | | | | | | | | |
| 1803-63 | R Pav | <8.5-13.0> | | 8M+++++ | | | 23m | | +++++25M+++++ | | | | | 8m | | ++ |
| 1805+65 | W Dra | <9.6-14.4> | | | -----27m----- | | | +++++25M+++++ | | | | | | -----31m----- | | |

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|-----------|-------------|---------------|--------------|----------------|----------------|---------------|----------------|---------------|---------------|----------------|------------|----------------|----------------|----------------|---------------|----------|
| 1805+31 | T Her | <8.0-12.8> | +++++ | 28m | | | ++++++16M+++++ | | | 12m | | ++++++28M+++++ | | | 24m | |
| *1805+18 | XZ Her %& | 10.2-(15.5) | | 20m? | | | 23M? | | | 11m? | | | 10M? | | | 29m? |
| 1806+66 | X Dra | <11.0-14.7> | --- | 26M | | | | | -----23m----- | | | | 10M | | | ----- |
| 1810+31 | TV Her | <9.7-14.5> | --- | | ++++++27M+++++ | | | | | | | -----15m----- | | | | +++++25M |
| 1811+36 | W Lyr | <7.9-12.2> | +++ | 14m | ++++++21M+++++ | | | | | 31m | | ++++++5M+++++ | | | | |
| 1811+03 | RY Oph | <8.2-13.2> | | +++++15M+++++ | | | 5m | | +++++13M+++++ | | | 2m | +++++10M+++++ | | | |
| *1813+06 | BC Oph | 8.8-15.6 | | 12M? | | | | | | 6m? | | | | 16M? | | |
| *1814+06 | AY Oph & | 10.4-(15.5) | | | | 18m? | | | 14M? | | | | 30m? | | | 25M? |
| *1815+12 | V450 Oph %# | 10.6-(15.0) | | 27m? | | 13M? | | | 4m? | | 19M? | | | 10m? | | 24M? |
| *1818+28 | AZ Her & | 10.4-16.0 | | | | 18m? | | | | 24M? | | | | | 12m? | |
| *1820+39 | TW Lyr %& | 9.7-15.5 | | | | | 4m? | | | | | | | 8M? | | |
| *1821+72 | RT Dra | 9.1-14.5 | 20M? | | | | | 27m? | | | | | 26M? | | | |
| 1821-33 | RV Sgr | <7.8-14.1> | | -----11m-- | | | ++++++8M+++++ | | | | | | | | -----21m-- | |
| 1822+24 | SV Her %& | <9.8-14.4> | | -----25m----- | | | ++++11M++++ | | | | | -----19m----- | | | | +++++ |
| 1823+06 | T Ser | <9.7-15.0> | | -----25m----- | | | ++++++7M++++ | | | | | | | | -----29m----- | |
| *1829+16 | DS Her %# | 10.4-(15.4) | | | | 18m? | | | | 7M? | | | | | | 6m? |
| 1831+49A | SV Dra | <9.7-14.3> | | +++++9M+++++ | | | | -----21m----- | | | | ++++21M+++++ | | | | - |
| 1832+25 | RZ Her | <9.5-14.9> | | | ++++++6M+++++ | | | | | | | -----16m----- | | | | +++++ |
| 1833+08 | X Oph | <6.8-8.8> | | | | | 2m | | | | | | | | 21M | |
| *1839+22 | AE Her | 8.9-15.2 | | 10m? | | | 1M? | | | | | 17m? | | | | 5M? |
| 1841+34 | RY Lyr | <9.8-14.7> | | | | | 4m | | | +++15M++++ | | | | | | |
| 1842+43 | RW Lyr | <11.3-15.6> | | | | | 17m | | | | | | | 7M | | |
| *1850+36 | SU Lyr %@ | 11.2-(18.0) | | | | | | 12m? | | | | | 24M? | | | |
| 1850+32 | RX Lyr | <11.9-(15.5)> | 6m | | | 16M | | | | | | -----10m----- | | 20M | | |
| *1853+16 | EU Aql %& | 11.4-15.1 | | | | 21m? | | | | | 9M? | | | | | |
| 1855-12A | ST Sgr | <9.0-15.2> | | -----25m----- | | | ++++++10M+++++ | | | | | | | | | |
| 1856+34 | Z Lyr | <10.1-14.8> | ---- | | | +++++1M++++ | | | | -----24m----- | | | | | ++++17M+ | |
| 1857+37 | RT Lyr | <10.1-14.6> | | +++16M++++ | | | -----27m----- | | | | +++28M++++ | | | | | |
| *1859+47 | WZ Lyr %# | 10.0-15.5 | | | | 15m? | | | | | 11M? | | | | | |
| 1901+08 | R Aql | <6.1-11.5> | +17m | ++++++19M+++++ | | | | | | | | ++++++17m | ++++++16M+ | | | |
| *1903+33 | AB Lyr | 10.1-15.5 | | 28M? | | | | 5m? | | | | 2M? | | | | 6m? |
| 1905+29A | V Lyr | <9.7-14.8> | -----2m----- | | | +++++11M+++++ | | | | | | | | | -----10m----- | |
| *1905+29B | VZ Lyr %# | 10.3-(15.5) | | 13M? | | | | 26m? | | | | 17M? | | | | 28m? |
| *1905+27 | TY Lyr | 9.3-15.0 | | | | 3m? | | | | | | 1M? | | | | |
| *1906+43 | ST Lyr | 9.8-(15.5) | | 27M? | | | | | 25m? | | | | | 24M? | | |
| *1906+27A | UV Lyr | 10.6-(15.5) | | | 26M? | | | | 5m? | | | | 17M? | | | |
| *1907+28 | UW Lyr %# | 11.4-(15.5) | | | 3m? | | | 9M? | | | | 22m? | | | | 28M? |
| 1908-18 | RX Sgr | <9.7-13.8> | | | -----9m----- | | | | | ++++++11M+++++ | | | | | | ----- |
| 1909+67 | U Dra | <9.5-13.8> | | ++++++7M+++++ | | | | | | -----20m----- | | | | ++++++17M+++++ | | |
| 1909+41 | RU Lyr | <10.6-15.1> | | | -----8m----- | | | | | | +++26M++ | | | | | ----- |
| 1909+33 | RS Lyr | <10.2-15.0> | 5m | | | | +++4M++++ | | | | | -----2m----- | | | | |
| *1909+31 | EL Lyr %# | 11.1-(15.0) | 20M? | | | | | 12m? | | | 11M? | | | | | 1m? |
| 1909+25 | S Lyr | <10.8-15.2> | | | | | | | -----17m----- | | | | | | | 9M |
| *1910+46 | SS Lyr | 9.5-15.0 | | | | 2M? | | | | | | | 2m? | | | |
| 1910-07 | W Aql | <8.3-14.0> | ++++ | | | | | | -----27m----- | | | | ++++++14M+++++ | | | |

| | | | |
|------------|---------------------|--------------------------|--|
| # | & | @ | % |
| needs data | needs data urgently | needs data very urgently | has CCDV/multicolor photometry but needs visual data |

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|-----------|-----------|---------------|--------|--------|-------|----------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|
| 1910-17 | T Sgr | <8.0-12.6> | | 13m | | | +++++ | | | 12M | +++++ | | | | | |
| 1910-19 | R Sgr | <7.3-12.5> | +++++ | | | 24m | | | +++++ | 2M | +++++ | | | | 19m | |
| 1911-24 | TY Sgr %& | <9.8-15.0> | ---29m | --- | | | | ++++25M | +++++ | | | --- | 20m | --- | | |
| 1913-19 | S Sgr | <10.2-14.8> | | +15M | +++++ | | | --- | 20m | --- | | +++4M | +++++ | | | 6m |
| 1913-21 | Z Sgr | <8.6-16.0> | | | | --- | | 25m | --- | | | | | | +++++ | 9M |
| 1913-31 | SW Sgr %@ | <10.0-(13.4)> | | | | +++++13M | +++ | | | | 8m | | | | +++++ | 28M |
| *1915+17 | W Sge %# | 9.0-(15.5) | | | | 28M? | | | | | 29m? | | | | 31M? | |
| 1916+37 | U Lyr | <9.5-12.0> | +++++ | 23M | +++++ | | | | | | 11m | | | | | +++++ |
| *1918+31 | AN Lyr | 9.3-(15.0) | 19m? | | | | 2M? | | | | 1m? | | | | 12M? | |
| *1922+01 | TU Aql | 8.9-(15.4) | | | 5m? | | | | 14M? | | | | 30m? | | | |
| *1927+34 | DD Cyg | 9.6-14.1 | 10M? | | | 4m? | | 6M? | | 14M? | | | 1M? | | 24m? | |
| 1929+28 | TY Cyg | <9.5-14.6> | | | | +++++ | 24M | +++++ | | | | --- | 10m | --- | | |
| 1933+11 | RT Aql | <8.4-14.0> | | | --- | 19m | --- | | +++++ | 7M | +++++ | | | | --- | 9m |
| 1934+49 | R Cyg | <7.5-13.9> | +++++ | 11M | +++++ | | | | | | | --- | 22m | --- | | +++++ |
| *1934+28 | BG Cyg | <9.1-12.4> | +++++ | 15M? | +++++ | | | | 11m? | | | +++++ | 30M? | +++++ | | |
| *1934+11A | SV Aql %& | 10.2-(15.5) | | | | 20M? | | | | 12m? | | | | | 28M? | |
| 1935+09 | RV Aql | <9.0-14.2> | 1m | --- | | +++++ | 11M | +++++ | | --- | 7m | --- | | +++++ | 15M | +++++ |
| *1939+54 | V369 Cyg | 9.7-14.2 | | 15m? | | 5M? | | 31m? | 19M? | | 12m? | | 31M? | | 26m? | 13M? |
| 1939-72 | T Pav | <8.0-13.8> | +++++ | 22M | +++++ | | | | --- | 6m | --- | | +++++ | 23M | +++++ | |
| *1940+67 | ZZ Dra | 9.2-15.5 | | | | | 6m? | | | | 1M? | | | | | 29m? |
| 1940+48 | RT Cyg | <7.3-11.8> | ++25M | +++++ | | | 18m | +++++ | 3M | +++++ | | | 25m | +++++ | 10M | +++ |
| *1940+27 | YZ Vul @ | 9.4-(15.0) | | 29M? | | | | | | 14m? | | | | | | 10M? |
| 1943+48 | TU Cyg | <9.4-14.2> | --- | | | +++++ | 16M | +++++ | | --- | 4m | --- | | +++++ | 22M | +++++ |
| 1946+32 | Chi Cyg | <5.2-13.4> | +++++ | | | +++++ | | | | | 28m | | +++++ | | 10M | +++ |
| 1946+04 | X Aql | <8.9-14.9> | | | +++++ | 3M | +++++ | | | | --- | 9m | --- | | | +++++ |
| 1946-59 | S Pav | <7.2-9.3> | +++++ | | | 15m | +++++ | | | | | | 22M | +++++ | | |
| 1949-29 | RR Sgr | <6.8-13.2> | +++++ | | | | 31m | | | +++++ | 16M | +++++ | | | | |
| *1950+55 | CU Cyg & | 10.3-(15.0) | 10m? | | | 13M? | | | | 12m? | | | 12M? | | | |
| *1951+36A | IZ Cyg %@ | 10.3-(15.5) | | | | 2M? | | | | | | | 16m? | | | |
| 1951-42 | RU Sgr %# | <7.2-12.8> | + | | 27m | | +++++ | 15M | +++++ | | | | 26m | | +++++ | 11M |
| 1952-02 | RR Aql | <9.0-13.9> | | +++++ | 21M | +++++ | | | | | | --- | 15m | --- | | +++++ |
| 1953-08 | RS Aql & | <9.7-15.2> | +++++ | | | | | | --- | 20m | --- | | | | +++++ | 3M |
| *1955+51 | CM Cyg | 9.5-(15.0) | | | | 14M? | | | | | 28m? | | | | 24M? | |
| 1958+49 | Z Cyg | <8.7-13.3> | ++++ | | | 25m | | +++++ | 13M | +++++ | | | | | 14m | |
| *2002+50 | BU Cyg | 9.6-(16.0) | | 10M? | | 23m? | | | 17M? | | 27m? | | | | 22M? | |
| 2002+12 | SY Aql | <9.5-14.4> | | | | --- | 25m | --- | | +++++ | 18M | +++++ | | | | |
| *2002+09 | HI Aql | 10.4-(16.0) | | | 5m? | | | | | | 7M? | | | | 24m? | |
| 2003+57 | S Cyg | <10.3-16.0> | --- | | 3m | --- | | | | +++++ | 27M | +++ | | | --- | 20m |
| 2005-14 | R Cap %# | <10.6-13.6> | | +++17M | ++ | | | | | | 31m | | | | +++28M | ++ |
| *2007+20A | ST Sge | 9.9-14.4 | | | 15M? | | | 17m? | | | 23M? | | | | 26m? | |
| 2007+15A | S Aql | <8.9-12.4> | ++ | | 18m | +++++ | 18M | +++++ | | 15m | +++++ | 11M | +++++ | | 8m | +++++ |
| *2007+06 | TV Aql @ | 9.5-(15.0) | | 21M? | | | | 20m? | | | 22M? | | | | 18m? | |
| 2007-47 | R Tel %@ | <8.6-14.8> | | | | +++++ | 18M | +++++ | | | | --- | 27m | --- | | |
| 2008+12 | RU Aql | <9.4-14.0> | | --- | 6m | --- | | | +++++ | 12M | +++++ | | | --- | 6m | --- |
| 2008-22 | W Cap | <11.7-14.8> | --- | 25m | --- | | | 16M | | | --- | 23m | --- | | 12M | |

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|-----------|----------|-------------|-----------|----------|-----------|-----------|----------|--------|-----------|-----------|--------|-----------|-----------|-------|----------|-------|
| 2009+38 | RS Cyg | <7.2-9.0> | +++++ | 30M | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 2009-06 | Z Aql | <9.0-13.9> | 31m | +++28M | +++++ | | -9m- | ++++4M | +++++ | 16m- | +++11M | +++++ | | | 23m | |
| 2010+08 | R Del % | <8.3-13.3> | +++++ | | | | 26m | | | +++++4M | +++++ | +++++ | +++++ | +++++ | | |
| 2011+30 | SX Cyg | <9.0-14.3> | +++++ | | | | | | -----8m- | | | | | | +++++14M | ++ |
| 2011-39 | RT Sgr % | <7.0-13.3> | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | 9m | | | | | +++++ | +++++ |
| *2012+09 | RU Del | 10.4-15.2 | | | | 24M? | | | | 11m? | | | | | 10M? | |
| *2012+07 | QZ Aql @ | 10.4-(15.5 | | | 20m? | | | 26M? | | | 19m? | | | | 25M? | |
| *2013+76 | SZ Cep | 9.1-15.5 | | | | 11m? | | | | 27M? | | | | | | |
| 2014+37B | WX Cyg | <9.7-12.6> | +++++ | | | | | | 3m | | | | +++++ | +++++ | 15M | ++ |
| *2014+34 | AU Cyg | 8.7-15.5 | | | | | 25M? | | | | | | | | 6m? | |
| *2015+59 | CN Cyg | 8.1-14.6 | | 10m? | | | 16M? | | | 28m? | | | 30M? | | | |
| 2016+47 | U Cyg | <7.2-10.7> | ++25M | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 2022-40 | U Mic % | <8.8-14.0> | | +++++ | 21M | +++++ | | | | -----15m- | | | | | +++++ | 18M |
| *2025+12 | RX Del | 10.2-(15.5 | | | 14M? | | | 25m? | | 16M? | | | | 28m? | | |
| 2026-22 | RU Cap % | <9.7-15.1> | | +++++ | 27M | +++++ | | | | -----12m- | | | | | +++++ | 9M |
| 2028+17 | Z Del | <8.8-14.5> | + | | -----30m- | | | | +++++ | 14M | +++++ | | | | -----28m | |
| *2029+62 | BF Cep % | 10.0-(15.0 | | | | | 23M? | | | | | | | | 15m? | |
| 2029+54 | ST Cyg | <9.9-13.9> | +++++ | | | | -----6m- | | | | +++++ | 21M | +++++ | | | |
| 2034-29 | R Mic | <9.2-13.4> | -17m | | +++++ | 22M | +++++ | --4m | +++++ | 8M | +++++ | -21m | +++++ | 25M | +++++ | - |
| *2035+37A | FF Cyg | 9.2-15.0 | | | | | | 7m? | | | | | 17M? | | | |
| *2035+13 | SS Del | 11.3-(16.0 | | | | 2m? | | | 30M? | | | 13m? | | | 10M? | |
| 2036+11 | Y Del | <9.9-14.0> | -----21m- | | | | | | +++5M | +++++ | | | | ----- | | |
| 2038+47 | V Cyg | <9.1-12.8> | | | +++++ | 2M | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17m | | |
| 2038+16 | S Del | <8.8-12.0> | +++++ | +++++ | +++++ | | 3m | +++++ | +++++ | 24M | +++++ | +++++ | +++++ | | 4m | |
| *2039+42 | DG Cyg % | 10.9-16.0 | | | | 26M? | | | | | | | | 20m? | | |
| *2039+37 | DR Cyg % | 8.3-(15.5 | | 12m? | | | | | 14M? | | | | | | 23m? | |
| 2039-05 | Y Aqr | <9.4-14.8> | ----- | | +++++ | 4M | +++++ | | | -----7m- | | | | | | |
| 2040+16 | T Del | <9.3-14.8> | +++++ | | | -----19m- | | | | | | +++++ | 25M | +++++ | | |
| 2041-04 | W Aqr | <8.9-14.2> | | | -----21m- | | | | +++++ | 4M | +++++ | +++++ | | | | |
| 2042-15 | U Cap @ | <11.1-14.8> | -----22m- | | | | | 3M | -----14m- | | | | | | 23M | ----- |
| 2043+18 | V Del | <10.1-15.5> | ++ | | | -----21m- | | | | | | | | | | |
| 2044-05 | T Aqr | <7.7-13.1> | +++++ | 9M | +++++ | | | 23m | +++++ | 27M | +++++ | | | 11m | +++ | |
| 2048+46 | RZ Cyg | <10.5-13.0> | +++++ | | | 5m | | | | +++++ | 29M | +++++ | | | 5m | |
| 2049-54 | S Ind % | <8.2-15> | -----2m- | | | | | | +++++ | 17M | +++++ | +++++ | | | ----- | |
| 2050+30A | UX Cyg | <9.7-14.7> | +++++ | 11M | +++++ | | | | | -----23m- | | | | | | |
| 2050+17 | X Del | <9.0-14.1> | | -----5m- | | | +++++ | 2M | +++++ | +++++ | | | -----11m- | | | |
| *2051-40 | RY Mic % | 9.7-13.8 | 16m? | | | 23M? | | | 3m? | | | 7M? | | | 17m? | |
| 2056-27 | RR Cap % | <9.3-14.5> | - | | +++++ | 18M | +++++ | | | -----26m- | | | +++++ | 21M | +++++ | |
| *2057-82 | T Oct % | <9.5-14.3> | | 11m? | | | 19M? | | | | 18m? | | | 23M? | | |
| 2059+23A | R Vul | <8.1-12.6> | + | | 24m | +++++ | 15M | +++++ | | 11m | +++++ | 30M | +++++ | 25m | +++++ | 13M |
| 2101+29 | TW Cyg % | <10.0-14.5> | ----- | | | | +++++ | 4M | +++++ | | | -----27m- | | | | |
| 2101-24 | V Cap % | <9.2>-14.4 | | +++++ | 15M | +++++ | | | -----10m- | | | | +++++ | 16M | +++++ | |
| 2102-21 | X Cap % | <11.1-14.8> | -18m- | | | | 30M | | -----24m- | | | | | 4M | | ----- |
| 2103+82 | X Cep | <9.4-15.7> | +++++ | | | | | | | | | -----23m- | | | | |
| *2104+05 | RR Equ | 9.2-15.6 | | 3m? | | | | 6M? | | | | | | 1m? | | |

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|-----------|-----------|-------------|-----|----------------|----------------|---------------|---------------|----------------|---------------|-----------------|---------------|---------------|------------|---------------|-------|-------|
| 2105-04 | RS Aqr | <10.0-14.0> | | | +++++22M++++ | | | ----6m-- | | | +++++22M++++ | | | ---5m-- | | |
| 2105-16 | Z Cap # | <9.5-14.0> | | +++++++9M+++++ | | ---- | 14m---- | +++++++7M+++++ | | ---- | 13m---- | +++++++ | | | | |
| *2106+12 | AN Peg # | 10.0-(15.5 | | 25M? | | | | 3m? | | | | 1M? | | | | |
| 2108+68 | T Cep | <6.0-10.3> | | +++++8M+++++ | | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 2108+12 | R Equ & | <9.3-14.5> | | 7M+++++ | | | -----3m----- | | +++++ | 24M+++++ | | -----18m- | | | | |
| 2109-03 | RR Aqr | <9.5-13.9> | | +++++9M+++++ | | --- | 29m- | +++++11M++++ | | --- | 28m- | +++++9M+++ | | | | |
| 2116+14 | X Peg | <9.4-13.8> | | + | +++++++9M+++++ | | | -20m- | | +++++++27M+++++ | | --- | 6m- | | | |
| 2116-15 | T Cap # | <9.5-13.9> | | +++++12M+++++ | | | -----8m---- | | | +++++8M+++++ | | | --- | | | |
| *2117+21 | SW Peg | 8.7-15.5 | | | | 4m? | | | | 30M? | | | | | | |
| 2120-30 | S Mic %& | <9.0-13.8> | | 2m--- | | +++++15M+++++ | | ---- | 31m-- | +++++11M+++++ | | ---- | 26m | | | |
| 2128-14 | Y Cap @ | <11.6-14.8> | | | | | 3M | | | | | -----30m----- | | | | |
| 2136+78 | S Cep | <8.3-11.2> | | +++++ | | +++++ | +++++ | +++++ | 4M+ | +++++ | +++++ | +++++ | +++++ | 6M+ | | |
| *2137+53 | RU Cyg | <8.0-9.4> | | +++++ | | 2M? | +++++ | 15M? | +++++ | 21M? | +++++ | +++++ | +++++ | +++++ | | |
| 2140+24 | RR Peg | <9.2-14.1> | | -----4m----- | | +++++ | 21M+++++ | | | -----23m----- | +++++ | | | | | |
| *2140+12 | TU Peg | 8.2-13.8 | | | | | 14m? | | | 30M? | | | | | | |
| 2142-47 | R Gru %@ | <8.3-14.6> | | | +++++15M+++++ | | | | | -----20m----- | | +++++ | | | | |
| *2144+43 | WY Cyg | 8.6-14.8 | | | | | 17m? | | | 9M? | | | | | | |
| *2151+47 | LV Cyg %& | 10.5-(15.0 | | | | | 23m? | | | | | 16M? | | | | |
| *2152+47A | LX Cyg %& | 9.7-16.2 | | | | | | | 17m? | | | | | | | |
| 2156+05 | V Peg | <8.7-14.4> | | +++++ | | -----29m----- | | +++++ | 6M+++++ | | ----- | | | | | |
| *2158+13 | DG Peg | 10.2-15.2 | | | 14M? | | 29m? | | 10M? | | 23m? | | 4M? | | 17m? | |
| 2158-28 | S PsA | <9.0>-(13.4 | | | +++++118m+++++ | | | | | | +++++15m+++++ | | | | | |
| 2159+34 | RT Peg %# | <9.9-14.5> | | | +++++27M+++++ | | -----20m---- | | +++30M++++ | | -----21m---- | | | | | |
| 2201+33B | RZ Peg | <8.8-12.8> | | +++++7M+++++ | | +++++ | +++++ | +++++ | | | 6m | | | | | +++ |
| 2204+12 | T Peg # | <8.9-14.3> | | +++++9M+++++ | | | | -----10m----- | | | | | | +++++ | | |
| 2206+13 | Y Peg | <10.5-14.9> | | ---- | ++4M+ | | -----2m----- | | +27M+ | | -----25m----- | | | | | |
| *2207+54 | AB Cep # | 10.5-(15.0 | | | | 21m? | | | | 18M? | | | | | | 9m? |
| 2207+14 | RS Peg # | <9.3-14.3> | | +++++ | | | | -----14m----- | | | | | | +++++29M+++++ | | |
| 2208+43A | RS Lac | <10.4-11.9> | | | | 28m | | +++++30M+++++ | | | 20m | | | | | +++ |
| 2212-30 | R PsA | <9.2-14.7> | | +++++ | | | --- | 22m--- | | +++++24M+++++ | | | | | | --- |
| 2213-21 | X Aqr | <8.3-14.4> | | ++ | | -----25m----- | | +++++29M+++++ | | +++++ | +++++ | | | ----- | | |
| *2219+55B | SU Lac %@ | 10.3-(15.0 | | | 26M? | | | | 15M? | | | | | 25M? | | |
| 2219-38 | T Gru %@ | <8.6-11.5> | | 2M+++++ | | 25M+++++ | 19M+++++ | 8M+++++ | 2M+++++ | 23M+++++ | 16M+ | | | | | |
| 2219-48 | S Gru %@ | <7.7-14.4> | | --- | 29m-- | | | +++++24M+++++ | | | | | | ----- | | |
| 2221+29 | RV Peg %& | <9.9-14.6> | | ----- | +++13M+++++ | | | | | | | -----11m----- | | | | |
| 2224+39 | S Lac | <8.2-13.0> | | | | 8m | | +++++27M+++++ | | | 5m | | +++++23M | | | |
| 2228-67 | R Ind %@ | <8.4-14.3> | | +20M+++++ | | -----28m---- | | +++++24M+++++ | | -----30m---- | | ++ | | | | |
| *2229+24 | SS Peg | 8.0-14.5 | | | | | | | 4m? | | | | | 3M? | | |
| 2234-62 | T Tuc %@ | <8.1-13.2> | | ++21M+++++ | | | 19m | | +++++28M+++++ | | | | | 24m | | |
| 2238+41 | R Lac | <9.1-14.4> | | -----9m----- | | | +++++11M+++++ | | | | | -----3m----- | | | | |
| *2245+17 | SX Peg # | 8.4-13.4 | | | | | 15M? | | | | | 26m? | | | | |
| 2251-20 | S Aqr %& | <8.3-14.1> | | +++++ | | | -----17m----- | | +++++28M+++++ | | | | | -----20m- | | |
| *2255+42 | SZ And %# | 9.5-(15.4 | | | 3M? | | | | | 7m? | | | | 12M? | | |
| 2259+14 | RW Peg | <9.7-14.0> | | -18m---- | | +++++24M+++++ | | --- | 14m---- | | +++++19M+++++ | | --- | | | |
| 2301+10 | R Peg | <7.8-13.2> | | ++25M+++++ | | | | | 2m | | | | +++++7M+++ | | | |

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|----------|----------|-------------|---------|---------|----------|-----|----------|------|----------|----------|----------|---------|----------|---------|---------|----------|
| 2307+59 | V Cas | <7.9-12.2> | | 7m | +++++ | | 24M+++++ | | | | 24m | | +++++ | | 8M+++++ | |
| 2314+25 | W Peg | <8.2-12.7> | +++++ | | | | 2m | | | | +++++ | | 17M+++++ | | | |
| *2315+39 | RY And % | 9.5-(15.0 | | | | | | 13M? | | | | | | | 14m? | |
| 2315+08 | S Peg | <8.0-13.0> | +++++ | | | | 11m | | | | +++++ | | 11M+++++ | | | |
| *2318+39 | BU And % | 9.5-15.5 | | | | | 12m? | | | | | 11M? | | | | |
| *2326+42 | BG And | 8.9-(15.0 | | | | | 3m? | | | | 2M? | | | | | |
| 2327-46 | V Phe % | <9.2-14.0> | ---- | | +++++ | | 24M+++++ | | | | ---- | 11m---- | | +++++ | | 6M+++++ |
| *2331+09 | FF Peg | 9.8-15.8 | | | 31M? | | | | 2m? | | | | | 8M? | | |
| 2333+35 | ST And | <8.2-11.8> | +++++ | 3m+++++ | | | | | | 31M+++++ | | | | | | 28m+++++ |
| 2338-15 | R Aqr | <6.5-10.3> | 7M+++++ | | | | | | | | | | | 2m+++++ | | 29M+++++ |
| 2339+56 | Z Cas | <10.0-14.7> | ----- | | +++++ | | 24M+++++ | | | | | | | | | |
| *2343+15 | DL Peg % | 10.0-15.0 | 14m? | | 28M? | | | 14m? | | | 25M? | | | | 10m? | |
| 2350+53 | RR Cas % | <10.5-14.0> | | | ----- | | 15m---- | | | | +28M++++ | | | | | |
| 2351-50 | R Phe % | <8.0-14.1> | | +++++ | | | 10M+++++ | | | | 23m---- | | +++++ | | | 5M+++++ |
| *2352+55 | WY Cas | 8.2-15.5 | | | | | 28M? | | | | | | | | | 17m? |
| 2352-09 | V Cet @ | <9.4-14.3> | 9M+++++ | | | | ----- | | | | | | 23M+++++ | | | 10m---- |
| 2352-65 | R Tuc @ | <9.8-15.1> | +++ | | ----- | | 10m---- | | | | | | 3M+++++ | | | |
| 2353+50 | R Cas | <7.0-12.6> | +++++ | | 14M+++++ | | | | | | | | | | 29m | +++++ |
| 2355+25 | Z Peg | <8.4-13.2> | +++++ | | 8M+++++ | | | | 5m | | | | | | 5M+++++ | |
| 2357-15 | W Cet % | <7.6-14.4> | ----- | | +++++ | | 27M+++++ | | | | | | | | 15m---- | ++++ |
| 2358+55A | Y Cas | <9.8-14.5> | | | +++++ | | 10M+++++ | | | | | | | | 13m---- | |
| 2359+39 | SV And | <8.7-13.7> | | | | | --- | | 27M+++++ | | | | | | | |

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

needs data & needs data urgently @ needs data very urgently % has CCDV/multicolor photometry but needs visual data

STARS IN NEED OF OBSERVATIONS

in

AAVSO BULLETIN 73: Predicted Maxima and Minima of Long Period Variables for 2010

The stars listed below need additional observations. Please be aware that many of these stars are difficult to observe, and should be observed only by experienced observers. Please note that the symbol % after a star name indicates the star has fair to excellent CCDV or multicolor photometry but still needs visual observations. Because all of the Bulletin stars have decades of visual observations that predate CCD photometry, wherever there is photometry visual observations are also needed to allow correlation between the two types of data; continuity of visual observations is critical.

AAVSO charts for these stars may be created and downloaded using the Variable Star Plotter (VSP) on the AAVSO web site <http://www.aavso.org/observing/charts/vsp/> or ordered from AAVSO Headquarters. Please check the web site or with Headquarters to make sure you have the latest sequence for a star. Please note that if a star listed here does not have a sequence in VSP, you should use the chart for that star from the Royal Astronomical Society of New Zealand, Variable Star Section; you may order the chart from the RASNZ (<http://www.rasnz.org.nz>) or the AAVSO.

Stars Very Urgently in Need of Observations (symbol in Bulletin is @)

| | | | | | | | |
|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| 0003-39 | V Scl % | *0706+07 | WX CMi % | 1228-54 | U Cen % | 2007-47 | R Tel % |
| 0025-46 | T Phe % | 0707-72 | R Vol % | *1229-17 | U Crv % | *2007+06 | TV Aql |
| 0044-35 | X Scl % | *0707+17 | UZ Gem % | 1312-83 | U Oct % | 2011-39 | RT Sgr % |
| 0054-75 | U Tuc % | *0720-05 | TT Mon % | 1342-36 | RT Cen % | *2012+07 | QZ Aql |
| *0109-57 | RS Phe % | *0721+41 | VX Aur % | 1345-36 | RX Cen % | 2022-40 | U Mic % |
| 0250-50 | R Hor % | 0728+11 | T CMi % | 1346-77 | T Aps % | 2026-22 | RU Cap % |
| 0257-51 | T Hor % | 0731-73 | S Vol % | 1446-46A | S Lup % | 2042-15 | U Cap |
| *0259+19 | RT Ari | *0732+34 | ST Gem % | 1452-54 | Y Lup % | 2049-54 | S Ind % |
| *0347+11 | IK Tau % | *0733+36 | RU Lyn % | 1505-19 | T Lib % | *2051-40 | RY Mic % |
| *0349-46 | U Hor % | *0739+14 | BE Gem % | 1530-20 | X Lib % | 2056-27 | RR Cap % |
| *0419+16 | VX Tau % | 0743+23 | T Gem % | 1532-15 | W Lib % | *2057-82 | T Oct % |
| 0423+09 | S Tau % | 0756-12 | U Pup % | 1536-54 | T Nor % | 2101-24 | V Cap % |
| 0437-38 | R Cae % | *0805+23 | RR Cnc % | *1540-20 | Z Lib % | 2102-21 | X Cap % |
| *0450-07 | SX Eri % | *0813-34 | TU Pup % | 1547-36 | R Lup % | 2128-14 | Y Cap |
| 0508-48 | S Pic % | 0918-68 | RW Car % | 1605-19 | W Sco % | 2142-47 | R Gru % |
| 0512-47 | T Pic % | 0925-51 | Y Vel % | 1623-19 | Y Sco % | 2219-38 | T Gru % |
| *0513-16 | X Lep | 0949-53 | Z Vel % | 1656-36 | RT Sco % | 2219-48 | S Gru % |
| 0556-86 | R Oct % | 0955-63 | RV Car % | 1708-33 | RW Sco % | *2219+55B | SU Lac % |
| *0607+46A | ST Aur % | 1010-58A | Z Car % | 1735-43 | RU Sco % | 2228-67 | R Ind % |
| *0612+75 | W Cam | *1010-58B | AF Car % | 1741-62 | W Pav % | 2234-62 | T Tuc % |
| *0618+24 | CD Gem | 1011-53 | W Vel % | 1745-51 | U Ara % | 2327-46 | V Phe % |
| *0618+50 | GO Aur | 1032-70 | RZ Car % | *1754+23A | FU Her % | 2351-50 | R Phe % |
| *0632-01 | SY Mon | 1046-28 | RS Hya % | *1755+23 | WY Her % | 2352-09 | V Cet |
| *0641-36 | CH Pup % | 1115-61 | RY Car % | *1850+36 | SU Lyr % | 2352-65 | R Tuc |
| *0641+08 | ST Mon % | 1116-61 | RS Cen % | 1913-31 | SW Sgr % | | |
| 0651+11 | Y Mon % | 1144-41 | X Cen % | *1940+27 | YZ Vul | | |
| 0701+09 | V CMi | 1150-58 | W Cen % | *1951+36A | IZ Cyg % | | |

Stars Urgently in Need of Observations (symbol in Bulletin is &)

| | | | | | | | |
|-----------|----------|-----------|----------|----------|----------|-----------|----------|
| *0009+28 | UW And | *0526+07 | BK Ori | *0933-20 | ST Hya % | 1741-35 | SV Sco % |
| 0018-62 | S Tuc % | *0532-01 | X Ori | 0939+34 | R LMi | *1802+20B | DF Her % |
| 0101-02 | Z Cet | 0533+37 | RU Aur % | *1107-06 | U Crt % | *1805+18 | XZ Her % |
| 0106-30 | U Scl % | 0546-29 | R Col | 1200+12 | SU Vir % | *1814+06 | AY Oph |
| *0106+21A | X Psc % | *0619+25 | VV Gem | 1209-05 | T Vir % | *1818+28 | AZ Her |
| 0112+08 | S Psc % | *0640+13A | UY Gem % | 1246+06 | U Vir % | *1820+39 | TW Lyr % |
| 0117+12 | U Psc % | *0655+10A | BI Mon % | 1302-12 | RV Vir % | 1822+24 | SV Her % |
| *0120+20 | RX Psc % | *0702+05 | RS Mon % | *1353-04 | SY Vir % | *1853+16 | EU Aql % |
| 0159+12 | S Ari % | *0706-19A | SY CMa % | 1405-12A | Z Vir % | 1911-24 | TY Sgr % |
| *0202+27 | Z Tri % | *0710+39 | HT Aur % | 1405-28 | RU Hya % | *1934+11A | SV Aql % |
| 0224-26 | R For % | 0717+13 | V Gem | 1500-18 | RT Lib % | *1950+55 | CU Cyg |

| | | | | | | | |
|----------|----------|----------|----------|-----------|------------|-----------|----------|
| *0226+46 | AX And % | 0742-41 | W Pup % | 1506-05 | Y Lib % | 1953-08 | RS Aql |
| 0228-13 | U Cet % | *0753+20 | BP Gem | 1550-18 | RR Lib % | *2039+42 | DG Cyg % |
| *0242+37 | AI Per % | *0810+40 | W Lyn % | 1600-21 | Z Sco % | 2108+12 | R Equ |
| *0313+32 | TW Per | *0819+35 | X Lyn % | 1602-21A | X Sco % | 2120-30 | S Mic % |
| *0357+16 | TZ Tau % | *0830+13 | UY Cnc % | 1616-07 | W Oph % | *2151+47 | LV Cyg % |
| 0422+09 | R Tau % | 0848+03 | S Hya | 1628-16 | S Oph % | *2152+47A | LX Cyg % |
| 0432-63 | R Ret % | *0852-02 | WW Hya % | 1648-44 | RS Sco % | 2221+29 | RV Peg % |
| 0432+08 | RX Tau % | *0853-00 | TU Hya % | *1719+04A | V759 Oph % | 2251-20 | S Aqr % |
| *0459+35 | AQ Aur % | 0900-24 | S Pyx % | 1724-86 | S Oct % | 2357-15 | W Cet % |
| 0500+03A | V Ori | 0930-14 | X Hya % | | | | |

Stars in Need of Observations (symbol in Bulletin is #)

| | | | | | | | |
|----------|----------|-----------|----------|-----------|------------|----------|----------|
| 0010-32 | S Scl % | *0549+32 | AY Aur % | 1547-15 | R Lib % | 2005-14 | R Cap % |
| 0010+46 | X And % | 0617-02 | V Mon % | 1558-23 | RZ Sco % | 2010+08 | R Del % |
| 0024-38A | T Scl | *0617+25 | ZZ Gem | *1608+25 | VV Her % | *2029+62 | BF Cep % |
| *0054+27 | W Psc | *0625+64 | RT Cam | 1611-22A | R Sco % | *2039+37 | DR Cyg % |
| 0123+50 | RZ Per % | *0625+74 | SU Cam % | 1611-22B | S Sco % | 2101+29 | TW Cyg % |
| 0125+02 | R Psc % | 0635+58 | S Lyn % | *1613+26 | NP Her % | 2105-16 | Z Cap |
| 0133+38 | Y And % | 0703+10 | R CMi | *1647+05 | RX Oph % | *2106+12 | AN Peg |
| 0212+81 | Z Cep | *0710+26 | WZ Gem | 1650-30 | RR Sco | 2116-15 | T Cap |
| *0302+26 | Z Ari | 0712+01 | RR Mon % | *1702+17 | VY Her | 2159+34 | RT Peg % |
| 0305+14 | U Ari | 0728-20B | Z Pup % | *1740+21 | CF Her | 2204+12 | T Peg |
| 0323+35 | R Per % | *0807+14 | SU Cnc % | *1815+12 | V450 Oph % | 2207+14 | RS Peg |
| 0407-25 | W Eri % | 0824-76 | R Cha % | *1829+16 | DS Her % | *2207+54 | AB Cep |
| 0515-33 | T Col % | 0830+19 | U Cnc % | *1859+47 | WZ Lyr % | *2245+17 | SX Peg |
| 0520+36 | W Aur % | 0940-23 | RR Hya % | *1905+29B | VZ Lyr % | *2255+42 | SZ And % |
| 0535+31 | U Aur % | 1006-61 | S Car | *1907+28 | UW Lyr % | *2315+39 | RY And % |
| *0535+38 | SZ Aur % | 1434-17 | V Lib | *1909+31 | EL Lyr % | *2318+39 | BU And % |
| *0536-04 | Y Ori % | *1437-19A | SX Lib | *1915+17 | W Sge % | *2343+15 | DL Peg % |
| 0543-31 | S Col % | 1527-14 | RU Lib % | 1951-42 | RU Sgr % | 2350+53 | RR Cas % |

AAVSO Bulletin Stars with 2000.0 Coordinates

Note: Stars are in Bulletin order. Coordinates are ICRS from Simbad.

| Designation | Name | R.A. 2000.0 | Dec. 2000.0 | | | | |
|-------------|---------|---------------|---------------|----------|--------|---------------|---------------|
| 0003-39 | V SCL | 00 08 37.34 | -39 13 05.1 | 0347+11 | IK TAU | 03 53 28.84 | +11 24 22.6 |
| 0004+51 | SS CAS | 00 09 36.5303 | +51 34 00.873 | 0349-46 | U HOR | 03 52 47.033 | -45 49 48.18 |
| 0009+28 | UW AND | 00 14 10.930 | +29 01 20.39 | 0351-24 | T ERI | 03 55 13.9015 | -24 01 56.589 |
| 0010+46 | X AND | 00 16 09.57 | +47 00 44.8 | 0357+16 | TZ TAU | 04 02 46.0 | +16 40 35 |
| 0010-32 | S SCL | 00 15 22.2650 | -32 02 42.987 | 0407-25 | W ERI | 04 11 31.0253 | -25 08 02.305 |
| 0014+44 | VX AND | 00 19 54.0171 | +44 42 33.898 | 0419+16 | VX TAU | 04 25 27.5 | +16 33 25 |
| 0017+55 | T CAS | 00 23 14.2716 | +55 47 33.206 | 0422+15 | W TAU | 04 27 56.9 | +16 02 35 |
| 0017+26 | T AND | 00 22 23.146 | +26 59 45.77 | 0422+09 | R TAU | 04 28 18.000 | +10 09 44.77 |
| 0018+38 | R AND | 00 24 01.9469 | +38 34 37.328 | 0423+09 | S TAU | 04 29 12.1 | +09 56 43 |
| 0018-62 | S TUC | 00 23 07.678 | -61 40 17.07 | 0430+65 | T CAM | 04 40 08.877 | +66 08 48.65 |
| 0019-09 | S CET | 00 24 03.532 | -09 19 40.83 | 0432+74 | X CAM | 04 45 42.1935 | +75 06 03.465 |
| 0022+30 | YZ AND | 00 27 14.248 | +30 53 48.32 | 0432+08 | RX TAU | 04 38 14.5631 | +08 20 09.206 |
| 0024-38A | T SCL | 00 29 12.1299 | -37 54 30.665 | 0432-63 | S RET | 04 33 32.8321 | -63 01 45.003 |
| 0025-46 | T PHE | 00 30 26.222 | -46 24 33.26 | 0437-38 | R CAE | 04 40 30.0872 | -38 14 06.945 |
| 0027+25A | TU AND | 00 32 22.7289 | +26 01 45.937 | 0446+17 | V TAU | 04 52 02.28 | +17 32 17.7 |
| 0031+79 | Y CEP | 00 38 22.3 | +80 21 21 | 0450-07 | SX ERI | 04 55 23.88 | -06 55 50.2 |
| 0031+62 | TY CAS | 00 36 59.43 | +63 08 01.8 | 0452+56 | TX CAM | 05 00 50.39 | +56 10 52.6 |
| 0040+47 | U CAS | 00 46 21.371 | +48 14 38.72 | 0453+07 | R ORI | 04 59 00.5612 | +08 07 49.735 |
| 0041+32 | RW AND | 00 47 18.92 | +32 41 08.6 | 0455-14 | R LEP | 04 59 36.3487 | -14 48 22.518 |
| 0044+35 | V AND | 00 50 06.3 | +35 39 09 | 0459+35 | AQ AUR | 05 06 29.7 | +35 23 17 |
| 0044-35 | X SCL | 00 49 29.5 | -34 54 49 | 0500+03A | V ORI | 05 06 03.457 | +04 06 08.76 |
| 0046+33 | RR AND | 00 51 23.29 | +34 22 36.3 | 0500-22 | T LEP | 05 04 50.8436 | -21 54 16.505 |
| 0047+46A | RV CAS | 00 52 42.82 | +47 24 56.4 | 0508-48 | S PIC | 05 10 57.2471 | -48 30 25.485 |
| 0049+58 | W CAS | 00 54 53.8480 | +58 33 49.152 | 0509+53 | R AUR | 05 17 17.6907 | +53 35 10.042 |
| 0054+27 | W PSC | 00 59 46.4523 | +27 56 44.466 | 0512-47 | T PIC | 05 15 05.8673 | -46 55 04.835 |
| 0054-75 | U TUC | 00 57 13.142 | -75 00 00.37 | 0513-16 | X LEP | 05 18 19.6 | -16 21 08 |
| 0101-02 | Z CET | 01 06 45.128 | -01 28 52.87 | 0515-33 | T COL | 05 19 17.3326 | -33 42 29.080 |
| 0106+21A | X PSC | 01 12 07.2 | +22 13 19 | 0520+36 | W AUR | 05 26 54.57 | +36 54 10.9 |
| 0106-30 | U SCL | 01 11 36.4 | -30 06 28 | 0524-04A | S ORI | 05 29 00.8948 | -04 41 32.748 |
| 0109+40 | U AND | 01 15 29.8 | +40 43 09 | 0526+07 | BK ORI | 05 31 55.9 | +0777 36 51 |
| 0109-57 | RS PHE | 01 14 01.5 | -56 46 44 | 0530+68 | S CAM | 05 41 02.4931 | +68 47 55.029 |
| 0110+55A | VZ CAS | 01 16 28.30 | +56 23 43.7 | 0532-01 | X ORI | 05 37 38.65 | -01 46 16.7 |
| 0110+41A | UZ AND | 01 16 11.0 | +41 44 56 | 0533+37 | RU AUR | 05 40 07.9370 | +37 38 10.543 |
| 0112+72 | S CAS | 01 19 41.97 | +72 36 39.3 | 0535+38 | SZ AUR | 05 41 56.591 | +38 55 55.79 |
| 0112+08 | S PSC | 01 17 34.562 | +08 55 52.83 | 0535+31 | U AUR | 05 42 08.99 | +32 02 24.1 |
| 0117+12 | U PSC | 01 22 58.48 | +12 52 03.9 | 0536-04 | Y ORI | 05 41 33.70 | -04 07 55.1 |
| 0120+20 | RX PSC | 01 25 39.19 | +21 23 46.1 | 0543-31 | S COL | 05 46 56.3098 | -31 41 28.363 |
| 0122-33 | R SCL | 01 26 58.0940 | -32 32 35.454 | 0546+15A | Z TAU | 05 52 24.90 | +15 47 44.5 |
| 0123+50 | RZ PER | 01 29 42.17 | +50 51 23.9 | 0546+15C | RU TAU | 05 52 36.8 | +15 58 17 |
| 0125+02 | R PSC | 01 30 38.400 | +02 52 53.56 | 0546-29 | R COL | 05 50 33.1 | -29 11 54 |
| 0127+46 | SX AND | 01 33 35.935 | +46 31 13.29 | 0549-74 | V CAM | 06 02 32.297 | +74 30 27.10 |
| 0133+38 | Y AND | 01 39 36.723 | +39 20 39.19 | 0549+32 | AY AUR | 05 56 03.61 | +32 09 18.3 |
| 0149+58 | X CAS | 01 56 38.0944 | +59 15 33.721 | 0549+20A | U ORI | 05 55 49.1689 | +20 10 30.687 |
| 0152+54 | U PER | 01 59 35.1231 | +54 49 19.992 | 0554+39 | AZ AUR | 06 01 07.7 | +39 40 15 |
| 0159+12 | S ARI | 02 04 37.4 | +12 31 35 | 0556-86 | R OCT | 05 26 06.1831 | -86 23 17.748 |
| 0202+27 | Z TRI | 02 07 50.946 | +27 56 15.07 | 0557+16 | RR ORI | 06 03 02.4 | +16 22 40 |
| 0204+48 | RV AND | 02 11 02.5681 | +48 56 45.048 | 0602+46 | VY AUR | 06 09 52.1 | +46 34 27 |
| 0210+24 | R ARI | 02 16 07.1133 | +25 03 23.659 | 0604+50 | X AUR | 06 12 13.3824 | +50 13 40.423 |
| 0211+43A | W AND | 02 17 32.9606 | +44 18 17.766 | 0604+43 | RR AUR | 06 12 08.1 | +43 09 52 |
| 0212+81 | Z CEP | 02 26 17.5 | +81 40 39 | 0607+46A | ST AUR | 06 15 00 | +46 47.7 |
| 0214-03 | OMI CET | 02 19 20.7927 | -02 58 39.513 | 0612+75 | W CAM | 06 25 54.5 | +75 27 01 |
| 0220-00 | R CET | 02 26 02.3160 | -00 10 41.810 | 0616+47 | V AUR | 06 24 02.3393 | +47 42 23.875 |
| 0221+50 | RR PER | 02 28 28.730 | +51 16 21.13 | 0617+25 | ZZ GEM | 06 24 01.26 | +25 01 53.0 |
| 0224-26 | R FOR | 02 29 15.3079 | -26 05 55.674 | 0617-02 | V MON | 06 22 43.5825 | -02 11 43.501 |
| 0226+46 | AX AND | 02 32 46.1 | +46 29 17 | 0618+50 | GO AUR | 06 26 01.98 | +50 29 28.8 |
| 0228-13 | U CET | 02 33 43.6732 | -13 08 54.455 | 0618+24 | CD GEM | 06 25 00.1 | +24 55 24 |
| 0229+80 | VY CEP | 02 43 15.3 | +81 08 05 | 0619+47 | GQ AUR | 06 26 42.85 | +47 14 23.1 |
| 0231+33 | R TRI | 02 37 02.3416 | +34 15 51.365 | 0619+25 | VV GEM | 06 25 56 | +25 32.6 |
| 0242+37 | AI PER | 02 48 58.3 | +37 44 25 | 0625+74 | SU CAM | 06 38 11.8 | +73 54 56 |
| 0242+17 | T ARI | 02 48 19.7413 | +17 30 33.765 | 0625+64 | RT CAM | 06 35 18.9 | +64 05 34 |
| 0250-50 | R HOR | 02 53 52.7729 | -49 53 22.727 | 0631+59 | U LYN | 06 40 46.487 | +59 52 01.64 |
| 0257-51 | T HOR | 03 00 52.1210 | -50 38 31.901 | 0632-01 | SY MON | 06 37 31.28 | -01 23 43.6 |
| 0259+19 | RT ARI | 03 05 24.9 | +19 31 52 | 0634+44A | AA AUR | 06 41 12.9 | +44 10 00 |
| 0302+26 | Z ARI | 03 08 11.6 | +26 59 14 | 0635+58 | S LYN | 06 44 34.114 | +57 54 39.98 |
| 0305+14 | U ARI | 03 11 02.9 | +14 47 58 | 0640+30 | X GEM | 06 47 07.0506 | +30 16 34.297 |
| 0313+32 | TW PER | 03 19 56.71 | +33 08 36.6 | 0640+13A | UY GEM | 06 45 55.7 | +12 58 36 |
| 0314-01 | X CET | 03 19 26.0711 | -01 03 56.236 | 0641+08 | ST MON | 06 47 05.9 | +08 00 54 |
| 0320+43 | Y PER | 03 27 42.3922 | +44 10 36.479 | 0641-36 | CH PUP | 06 45 14.10 | -36 32 13.3 |
| 0323+35 | R PER | 03 30 02.976 | +35 40 17.07 | 0651+11 | Y MON | 06 56 52.19 | +11 14 32.4 |
| 0345+32 | RX PER | 03 51 16.21 | +33 02 06.7 | 0652-08 | X MON | 06 57 11.8139 | -09 03 52.154 |
| 0346-25 | U ERI | 03 50 29.135 | -24 57 22.86 | 0653+55 | R LYN | 07 01 18.0093 | +55 19 49.766 |
| | | | | 0655+10A | BI MON | 07 01 02.7 | +10 44 16 |
| | | | | 0701+22A | R GEM | 07 07 21.2744 | +22 42 12.736 |
| | | | | 0701+09 | V CMI | 07 06 58.8 | +08 52 38 |
| | | | | 0702+05 | RS MON | 07 07 28.7 | +04 59 13 |
| | | | | 0703+10 | R CMI | 07 08 42.6127 | +10 01 26.472 |
| | | | | 0706+07 | WX CMI | 07 11 57.45 | +07 29 59.3 |

| | | | | | | | |
|----------|--------|---------------|---------------|----------|--------|---------------|---------------|
| 0706-19A | SY CMA | 07 10 33.0 | -19 50 09 | 1214-18 | R CRV | 12 19 37.8719 | -19 15 21.844 |
| 0707+17 | UZ GEM | 07 12 53.9 | +17 39 17 | 1220+01 | SS VIR | 12 25 14.395 | +00 46 10.92 |
| 0707+14 | VX GEM | 07 12 48.9727 | +14 36 03.707 | 1225+32 | T CVN | 12 30 12.4035 | +31 30 12.056 |
| 0707-72 | R VOL | 07 05 36.204 | -73 00 52.04 | 1228-03 | Y VIR | 12 33 52.990 | -04 25 19.61 |
| 0710+39 | HT AUR | 07 16 52 | +39 38.8 | 1228-54 | U CEN | 12 33 30.7505 | -54 39 33.749 |
| 0710+26 | WZ GEM | 07 16 34.2 | +25 59 44 | 1229-17 | U CRV | 12 35 02.034 | -18 27 39.24 |
| 0712+01 | RR MON | 07 17 31.54 | +01 05 41.5 | 1231+60 | T UMA | 12 36 23.4660 | +59 29 12.982 |
| 0717+13 | V GEM | 07 23 09.3481 | +13 06 04.828 | 1233+66 | RV DRA | 12 37 34 | +65 34.2 |
| 0720-05 | TT MON | 07 25 40.6253 | -05 51 01.268 | 1233+07 | R VIR | 12 38 29.9349 | +06 59 19.028 |
| 0721+41 | VX AUR | 07 28 30.4853 | +40 58 13.417 | 1234+59 | RS UMA | 12 38 57.544 | +58 29 00.32 |
| 0727+08 | S CMI | 07 32 43.0721 | +08 19 05.191 | 1239+61 | S UMA | 12 43 56.6758 | +61 05 35.509 |
| 0728+11 | T CMI | 07 34 00.5 | +11 44 07 | 1242+38 | U CVN | 12 47 19.7 | +38 22 28 |
| 0728-20B | Z PUP | 07 32 38.0625 | -20 39 29.246 | 1242+04 | RU VIR | 12 47 18.4119 | +04 08 41.360 |
| 0731-73 | S VOL | 07 29 45.5759 | -73 22 44.007 | 1246+06 | U VIR | 12 51 05.7379 | +05 33 11.582 |
| 0732+34 | ST GEM | 07 39 10.8 | +34 29 00 | 1302-12 | RV VIR | 13 07 55 | -13 09.9 |
| 0733+36 | RU LYN | 07 39 56.8 | +36 40 00 | 1312-83 | U OCT | 13 24 32.627 | -84 13 30.89 |
| 0735+08 | U CMI | 07 41 20.0311 | +08 22 49.090 | 1315+46 | V CVN | 13 19 27.7649 | +45 31 37.660 |
| 0737+23 | S GEM | 07 43 02.520 | +23 26 58.23 | 1322+62 | RR UMA | 13 25 56.2 | +62 22 50 |
| 0739+14 | BE GEM | 07 44 34.8 | +14 03 00 | 1322-02 | V VIR | 13 27 48.147 | -03 10 22.88 |
| 0742-41 | W PUP | 07 45 57.3563 | -42 11 43.978 | 1324-22 | R HYA | 13 29 42.7803 | -23 16 52.792 |
| 0743+23 | T GEM | 07 49 18.126 | +23 44 03.77 | 1327-06 | S VIR | 13 33 00.1081 | -07 11 41.017 |
| 0753+20 | BP GEM | 07 59 14.42 | +20 38 27.4 | 1331-55 | RV CEN | 13 37 36.0546 | -56 28 35.045 |
| 0756-12 | U PUP | 08 00 50.6 | -12 50 31 | 1332+73 | T UMI | 13 34 40.5 | +73 25 56 |
| 0805+23 | RR CNC | 08 11 03.0 | +23 08 55 | 1336-33 | T CEN | 13 41 45.5637 | -33 35 50.562 |
| 0807+14 | SU CNC | 08 13 30.64 | +13 48 05.1 | 1342-36 | RT CEN | 13 48 20.9492 | -36 51 45.220 |
| 0808+37 | RT LYN | 08 14 50.7 | +37 40 12 | 1343-27 | W HYA | 13 49 01.9980 | -28 22 03.488 |
| 0810+40 | W LYN | 08 16 46.8597 | +40 07 53.210 | 1344+40 | R CVN | 13 48 57.0435 | +39 32 33.191 |
| 0811+12 | R CNC | 08 16 33.8284 | +11 43 34.463 | 1344+34 | RT CVN | 13 48 44.63 | +33 43 35.3 |
| 0813-34 | TU PUP | 08 17 05.0 | -34 35 24 | 1345-36 | RX CEN | 13 51 25.4531 | -36 56 37.700 |
| 0816+33 | T LYN | 08 22 42.8485 | +33 31 09.463 | 1346-77 | T APS | 13 55 50.0 | -77 48 05 |
| 0816+17 | V CNC | 08 21 42.8610 | +17 17 06.849 | 1353-04 | SY VIR | 13 58 37.8 | -04 34 35 |
| 0819+35 | X LYN | 08 25 31.8 | +35 24 13 | 1359-08 | RR VIR | 14 04 53 | -09 11.6 |
| 0824-76 | R CHA | 08 21 46.422 | -76 21 18.53 | 1401+13 | Z BOO | 14 06 29.55 | +13 29 05.7 |
| 0830+19 | U CNC | 08 35 46.39 | +18 53 45.2 | 1405-12A | Z VIR | 14 10 22.07 | -13 18 21.8 |
| 0830+13 | UY CNC | 08 36 06.6 | +13 12 33 | 1405-28 | RU HYA | 14 11 34.3964 | -28 53 07.440 |
| 0833+50 | X UMA | 08 40 49.1 | +50 08 11 | 1409-59 | R CEN | 14 16 34.3191 | -59 54 49.284 |
| 0848+03 | S HYA | 08 53 33.9463 | +03 04 06.486 | 1415+67 | U UMI | 14 17 19.9025 | +66 47 39.199 |
| 0850-08 | T HYA | 08 55 39.8443 | -09 08 29.356 | 1419+54 | S BOO | 14 22 52.9242 | +53 48 37.317 |
| 0852-02 | WW HYA | 08 57 46.3 | -03 16 54 | 1422+05 | RS VIR | 14 27 16.3910 | +04 40 41.132 |
| 0853-00 | TU HYA | 08 58 16.4 | -00 49 53 | 1425+84 | R CAM | 14 17 51.044 | +83 49 53.86 |
| 0900-24 | S PYX | 09 05 04.7 | -25 05 20 | 1425+39 | V BOO | 14 29 45.2669 | +38 51 40.648 |
| 0904+25 | W CNC | 09 09 52.6167 | +25 14 53.827 | 1432+27 | R BOO | 14 37 11.5787 | +26 44 11.663 |
| 0911-04 | UZ HYA | 09 16 45 | -04 36.4 | 1434-17 | V LIB | 14 40 22.191 | -17 39 27.32 |
| 0918-68 | RW CAR | 09 19 36.3 | -68 45 28 | 1437-19A | SX LIB | 14 42 47 | -20 12.6 |
| 0925-51 | Y VEL | 09 29 01.4209 | -52 10 54.027 | 1443+39 | RR BOO | 14 47 05.7890 | +39 19 01.594 |
| 0929-62 | R CAR | 09 32 14.6014 | -62 47 19.946 | 1446-46A | S LUP | 14 53 26.40 | -46 36 56.8 |
| 0930-14 | X HYA | 09 35 30.2635 | -14 41 28.610 | 1449+18 | U BOO | 14 54 19.5 | +17 41 44 |
| 0931+78 | Y DRA | 09 42 22.74 | +77 51 07.4 | 1452-54 | Y LUP | 14 59 36.9 | -54 57 57 |
| 0933-20 | ST HYA | 09 37 52.0 | -20 39 15 | 1500-18 | RT LIB | 15 06 25.1 | -18 43 51 |
| 0937+20 | RS LEO | 09 43 25.5 | +19 51 42 | 1505-19 | T LIB | 15 10 44.9 | -20 01 07 |
| 0939+34 | R LMI | 09 45 34.2831 | +34 30 42.775 | 1506-05 | Y LIB | 15 11 41.3088 | -06 00 41.377 |
| 0940-23 | RR HYA | 09 44 59.6 | -24 01 20 | 1513+36 | RT BOO | 15 17 14.7084 | +36 21 33.423 |
| 0942+11 | R LEO | 09 47 33.4904 | +11 25 43.646 | 1515-20 | S LIB | 15 21 23.9852 | -20 23 18.397 |
| 0947+35 | S LMI | 09 53 43.1692 | +34 55 35.350 | 1517+31 | S CRB | 15 21 23.9556 | +31 22 02.585 |
| 0948+36 | U LMI | 09 54 38.570 | +36 05 24.16 | 1517+14 | S SER | 15 21 39.5341 | +14 18 53.086 |
| 0949-53 | Z VEL | 09 52 54.302 | -54 10 47.90 | 1518-22 | RS LIB | 15 24 19.7912 | -22 54 39.871 |
| 0954+21 | V LEO | 10 00 01.9220 | +21 15 44.361 | 1527+03 | WW SER | 15 32 24.843 | +03 38 27.55 |
| 0955-63 | RV CAR | 09 58 21.0 | -63 53 52 | 1527-14 | RU LIB | 15 33 16.5008 | -15 19 35.005 |
| 1006-61 | S CAR | 10 09 21.8931 | -61 32 56.435 | 1528-49A | R NOR | 15 35 57.3517 | -49 30 28.645 |
| 1010-58A | Z CAR | 10 13 55.0 | -58 51 10 | 1530-20 | X LIB | 15 36 13.0 | -21 09 05 |
| 1010-58B | AF CAR | 10 13 54.3 | -59 01 20 | 1532-15 | W LIB | 15 37 48 | -16 10.0 |
| 1011-53 | W VEL | 10 15 14.8313 | -54 28 41.973 | 1533+78A | S UMI | 15 29 34.5707 | +78 38 00.283 |
| 1029+00 | S SEX | 10 34 56.0457 | -00 20 33.478 | 1536-20A | U LIB | 15 42 03.2 | -21 10 51 |
| 1032-70 | RZ CAR | 10 35 37.4 | -70 43 03 | 1536-54 | T NOR | 15 44 03.8426 | -54 59 12.509 |
| 1037+69 | R UMA | 10 44 38.4708 | +68 46 32.697 | 1540-20 | Z LIB | 15 46 31.4 | -21 07 40 |
| 1046-28 | RS HYA | 10 51 19.2 | -28 37 39 | 1545+36 | X CRB | 15 48 53.5269 | +36 14 52.587 |
| 1048+14 | W LEO | 10 53 37.4395 | +13 42 54.331 | 1546+39 | V CRB | 15 49 31.3118 | +39 34 17.892 |
| 1105+06 | S LEO | 11 10 50.378 | +05 27 35.11 | 1546+15 | R SER | 15 50 41.7341 | +15 08 01.108 |
| 1107-06 | U CRT | 11 12 47 | -07 17.8 | 1547-15 | R LIB | 15 53 35.9 | -16 14 09 |
| 1115-61 | RY CAR | 11 20 11.39 | -61 52 16.8 | 1547-36 | R LUP | 15 53 31.7 | -36 18 04 |
| 1116-61 | RS CEN | 11 20 27.888 | -61 52 36.82 | 1550-18 | RR LIB | 15 56 23.705 | -18 18 14.92 |
| 1136+39 | RU UMA | 11 41 40.20 | +38 28 28.8 | 1552+29 | Z CRB | 15 56 08.0 | +29 14 20 |
| 1144-41 | X CEN | 11 49 11.7847 | -41 45 27.276 | 1555+02 | BC SER | 16 00 58.5 | +02 10 28 |
| 1150-58 | W CEN | 11 55 01.3261 | -59 15 13.536 | 1558-23 | RZ SCO | 16 04 36.1341 | -24 06 00.661 |
| 1159+19 | R COM | 12 04 15.1982 | +18 46 56.768 | 1600-21 | Z SCO | 16 06 00.7047 | -21 43 59.571 |
| 1200+12 | SU VIR | 12 05 13.7 | +12 21 48 | 1601+18 | R HER | 16 06 11.77 | +18 22 11.3 |
| 1209-05 | T VIR | 12 14 36.73 | -06 02 08.9 | 1602+10 | U SER | 16 07 17.6645 | +09 55 52.539 |

| | | | | | | | |
|----------|----------|---------------|---------------|----------|----------|---------------|---------------|
| 1602-21A | X SCO | 16 08 31.8 | -21 31 50 | 1839+22 | AE HER | 18 43 11.57 | +22 59 43.8 |
| 1605-19 | V SCO | 16 11 44.6 | -20 08 07 | 1841+34 | RY LYR | 18 44 51.9 | +34 40 30 |
| 1606+25 | RU HER | 16 10 14.5153 | +25 04 14.342 | 1842+43 | RW LYR | 18 45 10.3 | +43 38 07 |
| 1607+10 | DN HER | 16 12 09.6 | +10 36 27 | 1850+36 | SU LYR | 18 53 38.1 | +36 30 34 |
| 1608+25 | VV HER | 16 12 29.9 | +24 53 56 | 1850+32 | RX LYR | 18 54 10.14 | +32 49 57.4 |
| 1611+38 | W CRB | 16 15 24.552 | +37 47 44.82 | 1853+16 | EU AQL | 18 58 23.8 | +16 46 55 |
| 1611-22A | R SCO | 16 17 38.4 | -22 56 38 | 1855-12A | ST SGR | 19 01 29.20 | -12 45 34.0 |
| 1611-22B | S SCO | 16 17 40.237 | -22 53 35.62 | 1856+34 | Z LYR | 18 59 38 | +34 57.2 |
| 1613+26 | NP HER | 16 17 08.9 | +25 51 00 | 1857+37 | RT LYR | 19 01 14.888 | +37 31 20.24 |
| 1616-07 | W OPH | 16 21 24.46 | -07 41 59.7 | 1859+47 | WZ LYR | 19 02 15.4 | +47 13 00 |
| 1621+19 | U HER | 16 25 47.4713 | +18 53 32.867 | 1901+08 | R AQL | 19 06 22.2522 | +08 13 48.006 |
| 1621-12 | V OPH | 16 26 43.7058 | -12 25 35.817 | 1903+33 | AB LYR | 19 07 00.3 | +33 43 27 |
| 1623-19 | Y SCO | 16 29 26.5 | -19 20 51 | 1905+29A | V LYR | 19 09 03.8 | +29 39 24 |
| 1626+23 | DO HER | 16 30 40 | +23 27.0 | 1905+29B | VZ LYR | 19 09 19 | +29 33.0 |
| 1628+07A | SS HER | 16 32 55.5434 | +06 51 29.709 | 1905+27 | TY LYR | 19 09 47.6 | +28 04 20 |
| 1628-15 | T OPH | 16 33 43.7 | -16 07 54 | 1906+43 | ST LYR | 19 09 46 | +43 36.9 |
| 1628-16 | S OPH | 16 34 15.229 | -17 09 39.14 | 1906+27A | UV LYR | 19 10 24 | +27 50.6 |
| 1631+72 | R UMI | 16 29 57.8962 | +72 16 49.157 | 1907+28 | UW LYR | 19 11 34.1 | +28 13 16 |
| 1631+37 | W HER | 16 35 12.317 | +37 20 42.88 | 1908-18 | RX SGR | 19 14 32.656 | -18 48 42.99 |
| 1632+66 | R DRA | 16 32 40.2258 | +66 45 17.943 | 1909+67 | U DRA | 19 10 00.7 | +67 16 39 |
| 1634+14 | AS HER | 16 38 51.8495 | +14 03 58.333 | 1909+41 | RU LYR | 19 12 21.8 | +41 18 15 |
| 1640+12 | UV HER | 16 45 34.095 | +12 08 11.65 | 1909+33 | RS LYR | 19 13 02 | +33 24.8 |
| 1643-19 | RR OPH | 16 49 02.5 | -19 27 53 | 1909+31 | EL LYR | 19 13 20.8 | +32 03 18 |
| 1647+15 | S HER | 16 51 53.9203 | +14 56 30.761 | 1909+25 | S LYR | 19 13 11.79 | +26 00 28.3 |
| 1647+05 | RX OPH | 16 52 48.2 | +05 24 27 | 1910+46 | SS LYR | 19 13 15.5203 | +46 58 55.796 |
| 1648-44 | RS SCO | 16 55 37.8135 | -45 06 10.769 | 1910-07 | W AQL | 19 15 23.44 | -07 02 49.9 |
| 1650+07 | V970 OPH | 16 54 46.5 | +07 40 27 | 1910-17 | T SGR | 19 16 14.4401 | -16 58 17.063 |
| 1650-30 | RR SCO | 16 56 37.8393 | -30 34 48.212 | 1910-19 | R SGR | 19 16 41.7972 | -19 18 27.671 |
| 1652-02 | SS OPH | 16 57 50.974 | -02 45 42.41 | 1911-24 | TY SGR | 19 17 43.0 | -23 56 25 |
| 1656+31 | RV HER | 17 00 35.1 | +31 13 22 | 1913-19 | S SGR | 19 19 25.8 | -19 01 26 |
| 1656-36 | RT SCO | 17 03 32.56 | -36 55 13.7 | 1913-21 | Z SGR | 19 19 42.6 | -20 55 36 |
| 1657+22 | SY HER | 17 01 29.2530 | +22 28 38.707 | 1913-31 | SW SGR | 19 19 53.0 | -31 42 55 |
| 1702+17 | VY HER | 17 07 17.62 | +17 10 22.8 | 1915+17 | W SGE | 19 19 32.42 | +17 12 19.0 |
| 1702-15 | R OPH | 17 07 45.785 | -16 05 33.98 | 1916+37 | U LYR | 19 20 09.15 | +37 52 36.9 |
| 1706+27A | RT HER | 17 10 48.0 | +27 03 56 | 1918+31 | AN LYR | 19 21 50.1 | +32 00 32 |
| 1708-33 | RW SCO | 17 14 51.677 | -33 25 54.56 | 1922+01 | TU AQL | 19 27 36.35 | +02 03 10.8 |
| 1714+01 | Z OPH | 17 19 32.1165 | +01 30 54.215 | 1927+34 | DD CYG | 19 31 31.4071 | +34 42 17.856 |
| 1717+23 | RS HER | 17 21 42.3568 | +22 55 16.031 | 1929+28 | TY CYG | 19 33 51.9 | +28 19 44 |
| 1719+04A | V759 OPH | 17 23 56.351 | +04 22 25.20 | 1933+11 | RT AQL | 19 38 01.6032 | +11 43 18.228 |
| 1724-86 | S OCT | 18 08 43.8 | -86 47 54 | 1934+49 | R CYG | 19 36 49.381 | +50 11 59.46 |
| 1726+18 | UZ HER | 17 30 22.950 | +17 54 50.51 | 1934+28 | BG CYG | 19 38 57.7395 | +28 30 46.611 |
| 1728+09A | RU OPH | 17 32 52.6 | +09 25 24 | 1934+11A | SV AQL | 19 39 01.75 | +11 56 46.4 |
| 1735-43 | RU SCO | 17 42 25.194 | -43 45 01.28 | 1935+09 | RV AQL | 19 40 43.06 | +09 55 51.5 |
| 1740+21 | CF HER | 17 44 54.3 | +21 29 44 | 1939+54 | V369 CYG | 19 41 54 | +54 40.6 |
| 1741-35 | SV SCO | 17 48 19.99 | -35 42 04.7 | 1939-72 | T PAV | 19 50 43.4828 | -71 46 17.246 |
| 1741-62 | W PAV | 17 50 26.9 | -62 24 33 | 1940+67 | ZZ DRA | 19 40 59.0 | +67 46 04 |
| 1745-51 | U ARA | 17 53 37.3 | -51 41 14 | 1940+48 | RT CYG | 19 43 37.7677 | +48 46 41.345 |
| 1751+11 | RT OPH | 17 56 32.036 | +11 10 09.72 | 1940+27 | YZ VUL | 19 44 02.1 | +27 46 06 |
| 1754+58A | T DRA | 17 56 23.3099 | +58 13 06.188 | 1943+48 | TU CYG | 19 46 10.5 | +49 04 22 |
| 1754+23A | FU HER | 17 58 24.4 | +23 26 40 | 1946+32 | CHI CYG | 19 50 33.9220 | +32 54 50.610 |
| 1755+23 | WY HER | 18 00 04.0 | +23 35 37 | 1946+04 | X AQL | 19 51 29.8 | +04 27 49 |
| 1755+19 | RY HER | 17 59 45.573 | +19 26 52.34 | 1946-59 | S PAV | 19 55 13.9674 | -59 11 44.342 |
| 1756+54 | V DRA | 17 58 14.5 | +54 52 15 | 1949-29 | RR SGR | 19 55 56.4323 | -29 11 24.108 |
| 1757+18 | WZ HER | 18 01 32 | +18 43.4 | 1950+55 | CU CYG | 19 52 26.7 | +55 19 48 |
| 1802+20B | DF HER | 18 06 33.3 | +20 16 20 | 1951+36A | IZ CYG | 19 55 20.8 | +37 03 58 |
| 1802-22 | VX SGR | 18 08 04.0485 | -22 13 26.614 | 1951-42 | RU SGR | 19 58 42.8717 | -41 50 57.939 |
| 1803-63 | R PAV | 18 12 52.9460 | -63 36 57.265 | 1952-02 | RR AQL | 19 57 36.0603 | -01 53 11.326 |
| 1805+65 | W DRA | 18 05 35.2 | +65 57 12 | 1953-08 | RS AQL | 19 59 06.580 | -07 53 02.52 |
| 1805+31 | T HER | 18 09 06.2107 | +31 01 16.210 | 1955+51 | CM CYG | 19 58 34.16 | +52 05 46.3 |
| 1805+18 | XZ HER | 18 10 03.6152 | +18 06 25.348 | 1958+49 | Z CYG | 20 01 27.6 | +50 02 31 |
| 1806+66 | X DRA | 18 06 52.177 | +66 09 19.77 | 2002+50 | BU CYG | 20 05 32.0 | +50 22 05 |
| 1810+31 | TV HER | 18 14 40.4 | +31 49 07 | 2002+12 | SY AQL | 20 07 05.40 | +12 57 06.3 |
| 1811+36 | W LYR | 18 14 55.8783 | +36 40 13.233 | 2002+09 | HI AQL | 20 07 26.1 | +09 33 31 |
| 1811+03 | RY OPH | 18 16 36.9363 | +03 41 35.346 | 2003+57 | S CYG | 20 05 29.85 | +57 59 09.1 |
| 1813+06 | BC OPH | 18 18 06.5 | +06 56 15 | 2005-14 | R CAP | 20 11 18.39 | -14 16 04.4 |
| 1814+06 | AY OPH | 18 19 04 | +06 15.9 | 2007+20A | ST SGE | 20 11 41.8 | +20 37 13 |
| 1815+12 | V450 OPH | 18 20 25 | +12 39.1 | 2007+15A | S AQL | 20 11 37.4707 | +15 37 14.587 |
| 1818+28 | AZ HER | 18 22 34 | +28 44.6 | 2007+06 | TV AQL | 20 12 49.7 | +06 18 00 |
| 1820+39 | TW LYR | 18 23 56.86 | +39 34 41.0 | 2007-47 | R TEL | 20 14 44.6 | -46 58 57 |
| 1821+72 | RT DRA | 18 19 25.8 | +72 40 50 | 2008+12 | RU AQL | 20 12 45.0 | +12 59 41 |
| 1821-33 | RV SGR | 18 27 56.0781 | -33 19 29.256 | 2008-22 | W CAP | 20 14 29 | -21 58.7 |
| 1822+24 | SV HER | 18 26 23.300 | +25 01 34.49 | 2009+38 | RS CYG | 20 13 23.6615 | +38 43 44.471 |
| 1823+06 | T SER | 18 28 48.8 | +06 17 53 | 2009-06 | Z AQL | 20 15 11.086 | -06 09 03.99 |
| 1829+16 | DS HER | 18 33 35 | +16 06.1 | 2010+08 | R DEL | 20 14 55.1381 | +09 05 21.019 |
| 1831+49A | SV DRA | 18 33 38.54 | +49 22 19.8 | 2011+30 | SX CYG | 20 15 33.52 | +31 04 20.1 |
| 1832+25 | RZ HER | 18 36 47.0 | +26 02 56 | 2011-39 | RT SGR | 20 17 43.6461 | -39 06 46.024 |
| 1833+08 | X OPH | 18 38 21.1255 | +08 50 02.807 | 2012+09 | RU DEL | 20 17 28 | +10 10.2 |

| | | | | | | | |
|----------|--------|---------------|---------------|----------|--------|---------------|---------------|
| 2012+07 | QZ AQL | 20 17 46.6 | +08 00 44 | 2234-62 | T TUC | 22 40 33.4804 | -61 33 13.549 |
| 2013+76 | SZ CEP | 20 09 57.59 | +77 11 09.7 | 2238+41 | R LAC | 22 43 15.638 | +42 22 11.23 |
| 2014+37B | WX CYG | 20 18 33.2744 | +37 26 59.056 | 2245+17 | SX PEG | 22 50 24.8287 | +17 53 36.501 |
| 2014+34 | AU CYG | 20 18 32.77 | +34 23 20.5 | 2251-20 | S AQR | 22 57 06.548 | -20 20 35.98 |
| 2015+59 | CN CYG | 20 17 53.6449 | +59 47 33.630 | 2255+42 | SZ AND | 22 59 33.6 | +42 50 23 |
| 2016+47 | U CYG | 20 19 36.5956 | +47 53 39.081 | 2259+14 | RW PEG | 23 04 11.496 | +15 18 11.93 |
| 2022-40 | U MIC | 20 29 15.7793 | -40 25 01.288 | 2301+10 | R PEG | 23 06 39.1663 | +10 32 36.097 |
| 2025+12 | RX DEL | 20 30 00.1 | +12 46 07 | 2307+59 | V CAS | 23 11 40.7183 | +59 41 58.982 |
| 2026-22 | RU CAP | 20 32 33.6 | -21 41 26 | 2314+25 | W PEG | 23 19 50.5009 | +26 16 43.659 |
| 2028+17 | Z DEL | 20 32 39.154 | +17 27 03.32 | 2315+39 | RY AND | 23 20 37.3 | +39 37 11 |
| 2029+62 | BF CEP | 20 31 26.1 | +62 56 42 | 2315+08 | S PEG | 23 20 32.6145 | +08 55 08.143 |
| 2029+54 | ST CYG | 20 32 32.5 | +54 56 46 | 2318+39 | BU AND | 23 23 39.90 | +39 43 36.9 |
| 2034-29 | R MIC | 20 40 02.9862 | -28 47 31.185 | 2326+42 | BG AND | 23 30 59.47 | +43 16 02.0 |
| 2035+37A | FF CYG | 20 38 51.71 | +37 53 23.2 | 2327-46 | V PHE | 23 32 28.0 | -45 59 16 |
| 2035+13 | SS DEL | 20 40 37.4 | +13 27 03 | 2331+09 | FF PEG | 23 36 10.2 | +09 48 55 |
| 2036+11 | Y DEL | 20 41 38.98 | +11 52 38.2 | 2333+35 | ST AND | 23 38 45.1349 | +35 46 21.234 |
| 2038+47 | V CYG | 20 41 18.2702 | +48 08 28.835 | 2338-15 | R AQR | 23 43 49.4616 | -15 17 04.202 |
| 2038+16 | S DEL | 20 43 04.8824 | +17 05 17.337 | 2339+56 | Z CAS | 23 44 31.54 | +56 34 53.5 |
| 2039+42 | DG CYG | 20 43 25 | +43 11.8 | 2343+15 | DL PEG | 23 48 23 | +15 39.4 |
| 2039+37 | DR CYG | 20 43 40.9 | +38 09 55 | 2350+53 | RR CAS | 23 55 49.1 | +53 43 28 |
| 2039-05 | Y AQR | 20 44 25.3 | -04 50 00 | 2351-50 | R PHE | 23 56 27.564 | -49 47 12.33 |
| 2040+16 | T DEL | 20 45 21.03 | +16 23 57.1 | 2352+55 | WY CAS | 23 58 01.30 | +56 29 13.5 |
| 2041-04 | W AQR | 20 46 25.073 | -04 05 00.40 | 2352-09 | V CET | 23 57 54.4 | -08 57 36 |
| 2042-15 | U CAP | 20 48 08 | -14 47.0 | 2352-65 | R TUC | 23 57 26.2 | -65 23 05 |
| 2043+18 | V DEL | 20 47 46.0 | +19 20 05 | 2353+50 | R CAS | 23 58 24.8725 | +51 23 19.703 |
| 2044-05 | T AQR | 20 49 56.4062 | -05 08 47.992 | 2355+25 | Z PEG | 00 00 06.5623 | +25 53 11.258 |
| 2048+46 | RZ CYG | 20 51 53.4 | +47 21 16 | 2357-15 | W CET | 00 02 07.389 | -14 40 33.07 |
| 2049-54 | S IND | 20 56 23.260 | -54 19 26.86 | 2358+55A | Y CAS | 00 03 21.3 | +55 40 50 |
| 2050+30A | UX CYG | 20 55 05.53 | +30 24 52.1 | 2359+39 | SV AND | 00 04 20.0723 | +40 06 35.814 |
| 2050+17 | X DEL | 20 54 54.065 | +17 38 28.30 | | | | |
| 2051-40 | RY MIC | 20 58 21.8 | -40 14 01 | | | | |
| 2056-27 | RR CAP | 21 02 20.0 | -27 05 15 | | | | |
| 2057-82 | T OCT | 21 14 01.529 | -82 06 33.65 | | | | |
| 2059+23A | R VUL | 21 04 22.5021 | +23 49 18.072 | | | | |
| 2101+29 | TW CYG | 21 05 59.666 | +29 24 22.01 | | | | |
| 2101-24 | V CAP | 21 07 36.6537 | -23 55 13.533 | | | | |
| 2102-21 | X CAP | 21 08 34.8 | -21 20 45 | | | | |
| 2103+82 | X CEP | 20 56 11.7 | +83 03 24 | | | | |
| 2104+05 | RR EQU | 21 09 35.7 | +06 07 25 | | | | |
| 2105-04 | RS AQR | 21 10 58.126 | -04 01 40.22 | | | | |
| 2105-16 | Z CAP | 21 10 37.569 | -16 10 24.96 | | | | |
| 2106+12 | AN PEG | 21 11 25 | +13 22.5 | | | | |
| 2108+68 | T CEP | 21 09 31.7819 | +68 29 27.206 | | | | |
| 2108+12 | R EQU | 21 13 11.774 | +12 48 08.77 | | | | |
| 2109-03 | RR AQR | 21 15 01.327 | -02 53 45.23 | | | | |
| 2116+14 | X PEG | 21 20 59.847 | +14 27 00.49 | | | | |
| 2116-15 | T CAP | 21 22 00.8227 | -15 09 33.143 | | | | |
| 2117+21 | SW PEG | 21 22 28.64 | +21 59 45.5 | | | | |
| 2120-30 | S MIC | 21 26 44.104 | -29 51 04.68 | | | | |
| 2128-14 | Y CAP | 21 34 22.7 | -13 58 31 | | | | |
| 2136+78 | S CEP | 21 35 12.8319 | +78 37 28.191 | | | | |
| 2137+53 | RU CYG | 21 40 39.0925 | +54 19 28.925 | | | | |
| 2140+24 | RR PEG | 21 44 30 | +25 00.4 | | | | |
| 2140+12 | TU PEG | 21 45 04.5987 | +12 41 54.972 | | | | |
| 2142-47 | R GRU | 21 48 32.4 | -46 54 47 | | | | |
| 2144+43 | WY CYG | 21 48 42.156 | +44 14 59.33 | | | | |
| 2151+47 | LV CYG | 21 55 09 | +48 13.7 | | | | |
| 2152+47A | LX CYG | 21 55 57.03 | +48 20 52.6 | | | | |
| 2156+05 | V PEG | 22 01 02.5 | +06 07 08 | | | | |
| 2158+13 | DG PEG | 22 03 35 | +14 01.4 | | | | |
| 2158-28 | S PSA | 22 03 46.6 | -28 02 58 | | | | |
| 2159+34 | RT PEG | 22 04 10.21 | +35 07 18.5 | | | | |
| 2201+33B | RZ PEG | 22 05 52.9733 | +33 30 24.790 | | | | |
| 2204+12 | T PEG | 22 08 54.04 | +12 32 26.2 | | | | |
| 2206+13 | Y PEG | 22 11 38 | +14 21.9 | | | | |
| 2207+54 | AB CEP | 22 11 11.2 | +55 16 55 | | | | |
| 2207+14 | RS PEG | 22 12 16.1823 | +14 33 12.209 | | | | |
| 2208+43A | RS LAC | 22 12 52.7 | +43 45 02 | | | | |
| 2212-30 | R PSA | 22 18 00.241 | -29 36 13.81 | | | | |
| 2213-21 | X AQR | 22 18 39.3191 | -20 54 04.071 | | | | |
| 2219+55B | SU LAC | 22 22 57.0 | +55 30 41 | | | | |
| 2219-38 | T GRU | 22 25 40.9253 | -37 34 09.223 | | | | |
| 2219-48 | S GRU | 22 26 05.4749 | -48 26 18.755 | | | | |
| 2221+29 | RV PEG | 22 25 36.5 | +30 28 19 | | | | |
| 2224+39 | S LAC | 22 29 00.9087 | +40 18 55.840 | | | | |
| 2228-67 | R IND | 22 36 00.6 | -67 17 17 | | | | |
| 2229+24 | SS PEG | 22 33 58.3333 | +24 33 53.977 | | | | |