

ANNUAL REPORT OF THE DIRECTOR FOR FISCAL YEAR 1994–1995

Janet Akyüz Mattei
AAVSO Headquarters
25 Birch Street
Cambridge, MA 02138

It is my privilege and personal pleasure to present to you my Annual Report for fiscal year 1994–95. This year has been an exciting one—a year in which we reached record highs in many areas of our operations. In my report I will share with you the highlights of this very challenging yet fulfilling year.

1. Internet connection

A highlight of this year has been to establish a direct Internet link for the AAVSO. We have become an Internet site, thanks to NASA Astrophysics Division and NASA Science Internet. The substantial charges for the installation and the continuation of this connection are being funded by NASA. This milestone has opened infinite possibilities for the AAVSO in communication and in the dissemination of data and information.

One of these possibilities that we have realized is the design and preparation of a World Wide Web (WWW) page on the AAVSO and its activities. I am very happy and proud to announce that as of August 1, we have a very attractive and informative Web page, developed by our technical assistant Bill Mackiewicz. The AAVSO Web page contains subheadings titled Variable Stars, General Information, Publications and Materials, Membership Information, Alert Notices, Light Curves, Services to Science, Educational Programs, and current items under What's New. Our Web address is: <http://www.aavso.org>.

1.1. AAVSO World Wide Web statistics

Number of documents accessed from August 1 to October 23, 1995:	33,866
Total number of unique machines accessing site:	1,624

The top 5 most requested files from our Web site, and the number of times they were requested from August 1 to October 23, 1995:

:/text/alert_notices.html	1,324
:/text/whatsnew.html	936
:/text/what_are_variable_stars.html	910
:/text/light_curves.html	618
:/text/pubs_and_materials.html	552

Below are some responses to our Web page:

Really great!! ...It is very nice, one of the best I have seen on the WWW.
—Steve Howell, member; Planetary Science Institute, Tucson, AZ

Wow!!!! I just *love* the new WWW site!! ...Overall, a *super* job!
—Bill Dillon, member

Nice Web page—perfectly appropriate tone and contents for the AAVSO!
And whoever is webmaster, nice job!
—Bob Hill, member, former AAVSO assistant,
now at NASA Goddard Flight Center

Great job, Janet; I did browse your Web page!

—France Cordova, NASA Chief Scientist

In addition to the Web page, we now have an FTP (File Transfer Protocol) site at Headquarters, and are placing charts, data, light curves, and Alert Notices on it for easy access by anyone who has this electronic capability. The AAVSO Internet connection, Web page, and FTP capabilities have infinite possibilities which are constrained only by time and by our limited number of technical staff.

2. Data management and data processing

2.1. Computerization and processing of current data

Monthly data received at AAVSO Headquarters reached a record high this year. I am happy to report that we have been able to keep up and are up-to-date with the processing of the current data. After processing each month's data, the observations are checked on-screen to ensure the highest possible accuracy of data entry.

An increasing number of observers have been preparing their monthly reports with the aid of a computer, using the data entry software that we developed, then submitting these reports either electronically or on diskette. Technical assistant Mike Saladyga recently revised our computer software to make it more streamlined, to include suggestions made by users, and to accommodate the recent Julian Date change to 2450000. The program has been tested in-house and also by several observers. After making the suggested changes, we distributed the revised program by mail and also electronically to the users of the old software and to all others who are interested.

Earlier in the year we also revised the observing report form to include specific comment and chart information for each observation, thus providing more complete information on each observation.

2.2. Processing of archival data

Two technical staff members, Elena Kahn and Mike Saladyga, are continuing to process archival data as one of their major responsibilities. I am happy to report that 59% of the data from 1911 to 1963 are now completely processed. The rate of processing these data depends significantly on the observer and how standard his/her reporting was, as well as on the increased experience of the technical staff. The table below shows the improvement in the rate of processing of the archival data:

First 10 months	44,138 observations/month
First 12 months	50,297 observations/month
Last month	86,933 observations/month
Overall rate	62,494 observations/month

Of 1,800,000 observations, 1,062,401 have been processed and 737,599 observations remain to be processed. We anticipate that at the present rate of processing, it will take 1–1.5 years to complete the processing of the archival data.

2.3. Upgrading computer software

Computer programs continue to be improved and developed by our technical assistant, Grant Foster, resulting in greater efficiency in evaluating, archiving, analyzing, and publishing data. Recent programs:

- provide efficient plotting on paper of observations, with varying plot size and number of plots per page;
- provide quick evaluation of data, identification of the evaluator, and status of each data point in the database;
- provide expanded and improved statistical analysis;

- d. provide streamlined and more efficient preparation of data for publication of Monographs; and
- e. check for missing data and any irregularities in the data files in the database.

2.4. Upgrading computer hardware and operations

For our Internet connection we initially purchased a powerful IBM-compatible computer on which we installed the Linux (a freeware Unix work-alike) operating system. The enormous amount of electronic communication, the creation of our World Wide Web page, and the establishment of our FTP site slowed down both our Internet system and, in particular, the office computer network. We have therefore added a mail-server to our Internet node, and have upgraded all of the office computers to 486 systems with hard drives. I am happy to report that our computer systems are now operating well and efficiently.

2.5. Maintenance of the AAVSO International Database

Our computer-readable AAVSO International Database now contains over 6 million observations from 1963 to date. The database is dynamic and is easily accessed by Headquarters technical staff. It is backed up and archived every week on cartridge tapes by Grant Foster and Shawna Helleur.

2.6. Archiving data from 1960 to 1995 on CD-ROMs

We had been archiving our data from 1960 to date on magnetic tapes at Harvard-Smithsonian Center for Astrophysics (CfA). Since magnetic tapes are becoming obsolete, the CfA has decided to discontinue their use and maintenance. In view of this impending change, we put the data from about 150 magnetic tapes on two CD-ROMs and made three copies of them. Our senior technical assistant, Elizabeth Waagen, was in charge of this project.

2.7. Evaluation of data

It is the AAVSO's policy to evaluate, i.e., check the accuracy of each observation before publication or electronic dissemination of data to the astronomical community. This evaluation is initially done by our technical staff and finalized by me. The evaluation of the data from 1963 to date continues on a star-by-star basis, as we respond to requests for data. We evaluated 10 to 30 years' data on a significant number of stars this year to fill data requests.

We have also evaluated the data from 1988 to 1994 on about 600 stars common to Hipparcos and the AAVSO, so that we can fit statistical curves through the observations for the *Hipparcos Atlas of Light Curves*.

3. Requests for AAVSO data and other special projects

3.1. Requests for AAVSO data

We have responded to a record high number of 373 requests for AAVSO data and information. This record number is due significantly to a) the major increase in requests for our data and services by educators mainly on the high school and college levels; b) the response to several articles that appeared in *Discover*, *Blue Horizons*, and similar magazines; and c) the response to our first Hands-On Astrophysics newsletter. A list of individuals requesting data or information, as well as each person's location and affiliation, is given in Table 4 at the end of my report. Figure 1 is a histogram of the annual number of data requests the AAVSO has filled since fiscal 1974-75.

As in the past few years, the number of individuals requesting that data be sent electronically continues to increase. This year 227 requests (61%) were filled electronically. Also, more and more requests are for data covering long time intervals (often 30 years).

We play a vital role in space research on variable stars. This year 137 (37%) of the 373 requests pertained to space research. We provided data and services for the following 11 space satellites of NASA, ESA, and Japanese Space Agencies: ASTRO-2 (46); Hipparcos (30); HST (15); EUVE (15); IUE (13); ALEXIS (6); ROSAT (4); ASCA (4); ISO (2); XTE (1); and Voyager (1). Figure 2 is a histogram of the number of requests we have filled in support of each of the space satellites mentioned above.

The types of stars for which AAVSO data were requested are given in the list below and in Figure 3.

- a) Cataclysmic variables (36%): dwarf novae (30%); novae, nova-like, recurrent novae, and supernovae (6%);
- b) Long period variables (31%): Mira (19%); semiregular (12%);
- c) Cepheids (22%)
- d) Symbiotic stars (3%);
- e) Eclipsing binaries (2%);
- f) R Coronae Borealis stars (1%);
- g) The Sun (1%);
- h) Miscellaneous (4%): RV Tauri, T Tauri, flare stars, nebular variables, S Doradus stars.

The areas in which AAVSO data or services have been used this year are given in the list below and in Figure 4.

- a) Multiwavelength data correlation (26%); AAVSO data have been used for correlation with ground-based optical and radio data, and for data obtained with space satellites ranging from the x-ray, ultraviolet, far ultraviolet, to optical;
- b) Educational activities (26%): information on AAVSO educational programs and observing projects (23%), setting up observing programs (3%);
- c) Scheduling of satellite and ground-based observing runs (18%); We have helped in the scheduling of observations with ground-based telescopes, and aboard satellites such as ASTRO-2, HST, EUVE, IUE, ROSAT, XTE, and ISO. Often our data and predictions have been the pivotal information for the success and execution of the observing run.
- d) Simultaneous observing of targeted objects with satellites such as Astro-2, EUVE, and HST (13%);
- e) Reference material (11%): data and information for articles, books, research projects on variable stars and related topics;
- f) Data analysis (4%);
- g) Information for the IAU Circulars (2%).

I want to share with you some examples of data requests we have received this fiscal year.

One such request was on the FU Orionis type T Tauri variable V1057 Cyg. This star, which had an outburst, brightening from about magnitude 16.5 to 9.7 in 1970, had been slowly fading. However, this year it had a sudden dimming, which we reported in *AAVSO Alert Notice 207*. Several months later, we had an e-mail from Dr. Robbins Bell, an astrophysicist who makes time-dependent computer models of FU Orionis-type outbursts. He wrote:

Please send me all available recent data on the recent V1057 Cyg dimming event... I will attend a conference in one week and would like to present a light curve of the entire outburst plus recent dimming event in the form of a poster to bring the event to the attention of the star formation

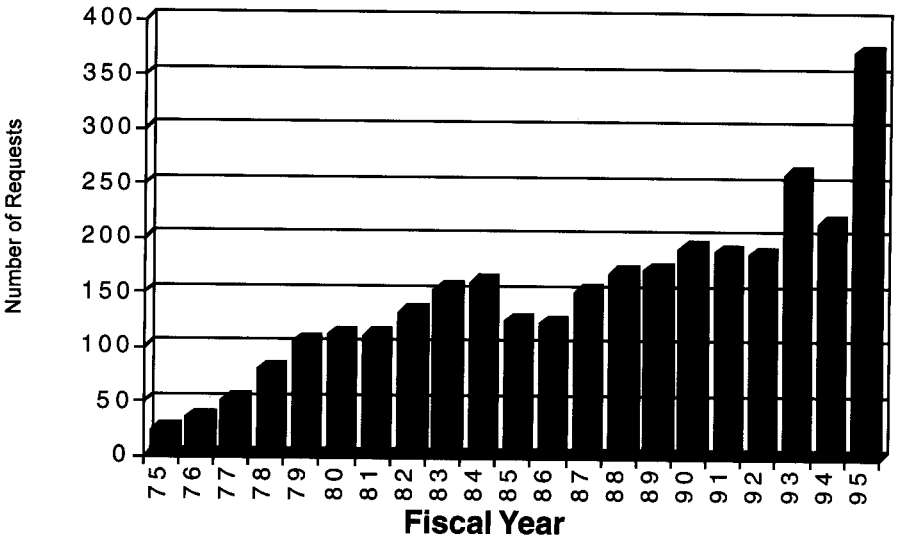


Figure 1. Histogram of the annual number of data requests the AAVSO has filled since fiscal 1974-75.

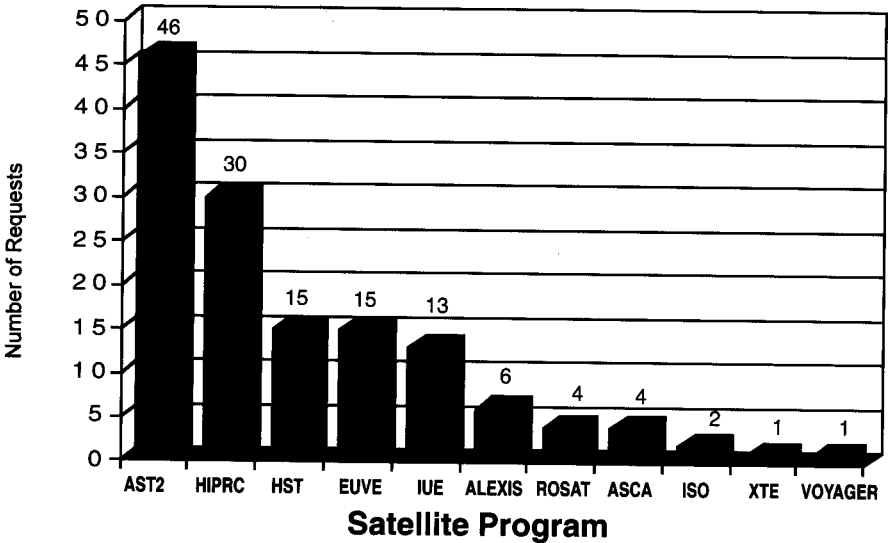


Figure 2. Histogram of the number of requests filled during fiscal year 1994-1995 in support of specific space satellite programs.

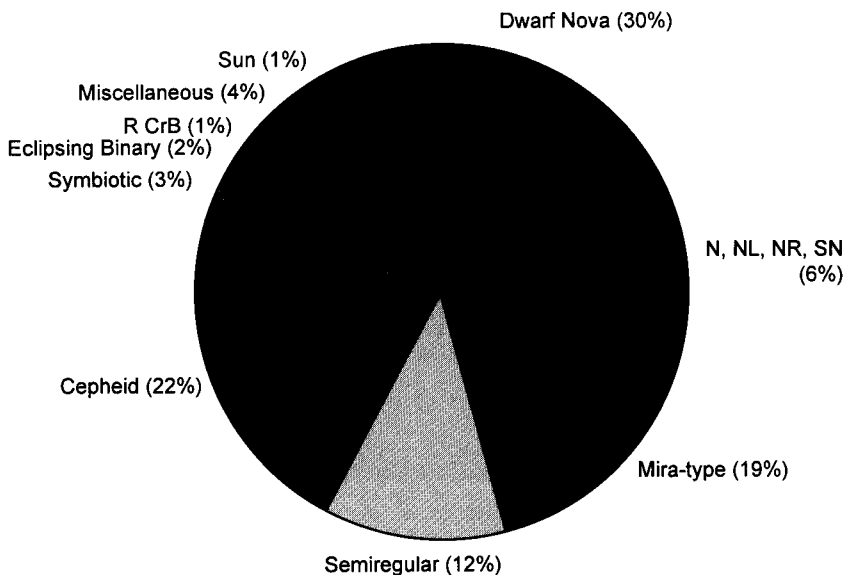


Figure 3. Types of stars for which AAVSO data were requested during fiscal year 1994-1995.

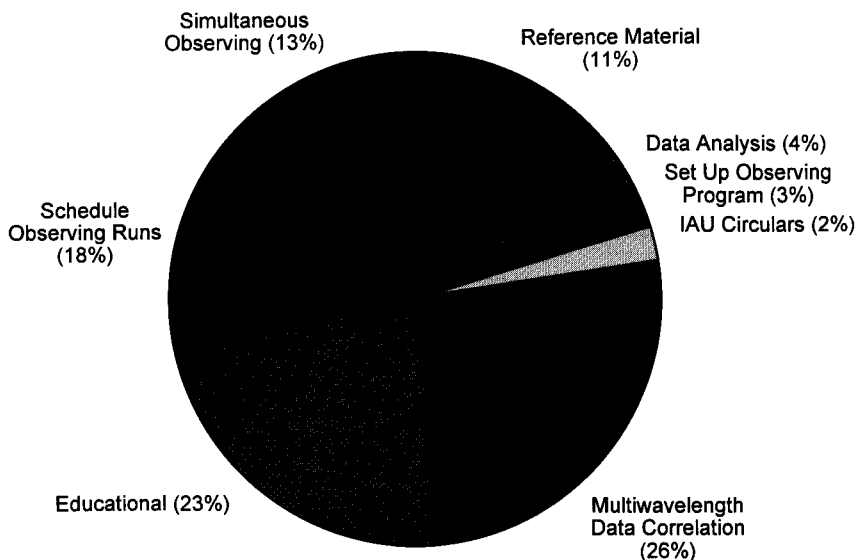


Figure 4. Areas in which AAVSO data or services were used during fiscal year 1994-1995.

community.... Since [your] alert several months ago, nearly a dozen people... have looked at this object at a variety of wavelengths both spectroscopically and photometrically.... So far all we know is that V1057 Cyg is far redder now than it was before the dimming event, and that spectroscopically it still looks like an object in outburst. Whether V1057 Cyg will return to its former brightness or whether this dimming is a return to its pre-outburst T Tauri state remains to be seen... That astronomers have been able to get observations of V1057 Cyg so close to the beginning of the dimming event is a tribute to the people and the organization of the AAVSO. Thanks!

We sent Dr. Bell all of the AAVSO data on V1057 Cyg, and he was able to proceed with his poster presentation.

We were informed by Dr. John Africano of a very peculiar stellar behavior that they had detected while tracking low earth satellites with CCDs. One of his telescope operators noticed a star flashing irregularly with an overall amplitude of 0.25 magnitude (but variable), and a duration of 20 to 50 milliseconds. The flashing was observed for three nights on this object and not on another nearby object they checked. They identified the flashing star to be the Mira type variable S Coronae Borealis. Dr. Africano requested the present magnitude and phase of S CrB and asked if we could find other Mira variables with the same period, spectra, phase, and current brightness as S CrB to see if these variables would also exhibit the same flashing behavior.

We found five candidates from our database that met the above requirements. When they observed these stars with CCDs, Dr. Africano and his team discovered that all of them were showing similar flashing activity to that of S CrB. Dr. Africano and his team concluded that what they were observing was not a newly-discovered phenomenon, but rather an instrumental problem with their CCD chip!

Another very interesting request we received was a letter asking for 13-year light curves of a long list of bright SAO stars. Over the course of 2 or 3 phone calls, we found out that this individual is doing private, unfunded research working with representatives of a Hopi Indian tribe in Utah, correlating with known bright stars tribal "observations" of several bright stars going back hundreds of years and passed down through their oral culture. The information is guarded very closely by the tribal elders and storytellers. The researcher listened as the storytellers told their stories—they will not answer questions about the stars or discuss the subject. He took down the stories, worked out the location of the tribe at the time of each story, worked out what constellations would have been in the sky at the time of year appropriate for each story, worked out what stars would have been visible to the naked eye at the time, and identified what he thought were probably the stars mentioned in the stories. These stars were the list of SAO stars he had sent us. Some of the SAO stars are variable—alpha Ori among them—and the tribe has made "observations" of them for hundreds of years. These observations are not in any kind of standard form, of course, although approximate brightnesses (or at least a "bright"/"faint" indication and an approximate season and year) could probably be derived from the context of the historical stories. If these derivations could be done, the resulting observations could extend (admittedly crudely) the large-scale light curves of these variables back hundreds of years. If the tribal elders decide in time that they are willing to share the information with people outside the tribe, he will contact us.

Below are some comments from others who requested AAVSO data:

I have the data [37,000 observations on 6 long period variables] and found [them] very useful.... The AAVSO continues to provide a very needed and

vital service to the professional community... thanks.

—Kevin Marvel, graduate student

I have received the photometry of Nova OS And 1986. The data look very good and [are] already proving to be very useful. The data that you have provided will go a long way in showing that OS And 86 probably formed dust about 1 month after outburst. Once again, thank you for your help.

—Greg Schwartz, graduate student

Your input is crucial for the preparation of this monitoring program [with HST] ... of those three Miras....

—Mario Lattanzi, astronomer

Thank you for the very nice summary and tabulation of the EX Hya results. I am happy to comply with all relevant policies about acknowledgement, etc., and very much appreciate your efforts.

—Mark Hurwitz, astronomer

[Enclosed] find a copy of our paper "The white dwarf in AM Her," [in which] we used the optical light curve obtained from you. Again, thank you very much. Without the enthusiastic work of the AAVSO members, our [work] would be much more difficult!

—Boris Gaensicke, astronomer

Wow, that was fast and extensive! The receipt of the R Aqr data [is] gratefully acknowledged. Many thanks.

—Walter Feibelman, astronomer

3.2. Special space satellite projects

In addition to the many requests for AAVSO data received this year, we continued to be involved in a number of special projects.

3.2.1. Astro-2 Mission (AAVSO participation funded by NASA)

We played a major role in the observation of cataclysmic variables during the two-week Astro-2 mission aboard the Endeavour space shuttle. The satellite observations were scheduled according to the information the AAVSO provided—often three times a day (around the clock), thanks to the dedicated efforts of our observers worldwide. As a result, excellent data were obtained on 17 cataclysmic variables. Several papers have already been submitted for publication strongly acknowledging the AAVSO's contribution to this mission.

NASA Astrophysics Division was very impressed with the contributions of variable star observers and provided excellent publicity for the AAVSO and contributing observers. An Associated Press article was picked up by several publications around the country and the world, and a number of our observers were written up in their local newspapers or were featured in local news broadcasts. In addition, NASA hired a special video team to film a story for a NASA Select television program featuring the AAVSO and one of our participating member observers, Bill Dillon. This program was aired several times during the mission.

3.2.2. Hipparcos (AAVSO participation funded by NASA)

AAVSO data continue to play a crucial role in the calibration of the Hipparcos satellite photometry, to correct the large secular drifts due to the aging of the optics, particularly in red variable stars.

We continue to provide to the Hipparcos photometry team statistically fitted curves to AAVSO observations on large amplitude variable stars common to Hipparcos and the AAVSO. The AAVSO data on each star are then transformed to

Hipparcos magnitudes and the light curve plotted upon which the Hipparcos photometric data are superimposed for the *Hipparcos Atlas of Light Curves*. On most stars, there is excellent agreement between the Hipparcos photometry and the AAVSO light curves. This agreement is a testimony to the high quality of AAVSO observations and the statistical curves fitted to the AAVSO data, the good transformation of AAVSO magnitudes to Hipparcos magnitudes, and the good calibration of the Hipparcos photometry.

We had a post-doctoral fellow from France, Dr. Dominique Barthès, working for four months at Headquarters carrying out statistical analysis on our long term data on some of the Hipparcos stars, for which we are preparing collaborative papers. Dr. Barthès is part of the Hipparcos variable star team, and during that mission he helped predict, with various statistical methods, the brightness of Hipparcos long period variables using AAVSO data.

3.2.3. Hubble Space Telescope (HST) (Co-investigator on a project funded by NASA)

Colleagues with whom we are collaborating continued to depend on our data and predictions this year for scheduling observations of U Geminorum and VW Hydri, and for some long period variables as well (see Volume 24, No. 1 of the *Journal*).

3.2.4. Extreme Ultraviolet Explorer (EUVE) (Co-investigator on a project funded by NASA)

Colleagues with whom we are collaborating depended on our data and predictions for scheduling pointed target-of-opportunity observations with the EUVE during the short outburst of VW Hydri. On July 7 (the day that we predicted), while the Principal Investigator, Dr. Christopher Mauche, was away attending a meeting on cataclysmic variables, VW Hyi went into an outburst. EUVE started to observe this star 3.75 hours after my call to the NASA Deputy Project Scientist alerting him that an outburst had started. Our southern hemisphere observers provided most impressive optical coverage, including CCD data. A spectacular multi-wavelength light curve was obtained with EUVE, Voyager, and AAVSO data that will make astrophysical history.

3.2.5. International Ultraviolet Explorer (IUE)

We continued to alert astronomers in Europe to the different types of outbursts of SS Cygni so that IUE observations could be scheduled during an anomalous outburst.

4. Outreach projects

The following outreach programs continued this year:

4.1. Observer Awards and the Director's Award

We have continued recognition of our observers through the Observer Award program. This year at the Spring Meeting in Stamford, Connecticut, we presented certificates to 11 observers who made over 10,000 observations, and to 6 observers who made over 25,000 observations. Their names appear on page 73 in Volume 24, Number 1 of the *Journal*.

We continue to receive excellent response from observers worldwide for this recognition.

The recipient of the Director's Award this year was John E. Bortle, AAVSO's longtime, prolific observer, contributor to special observing programs, editor of the *AAVSO Circular*, and co-editor of the Observers' Forum in the *AAVSO Newsletter*.

4.2. "Ask the Director"

We had open phone lines to the Director on designated dates. Members

appreciated the opportunity to call and ask questions, make suggestions, and share ideas. I very much enjoyed getting to know better those who called.

4.3. Complimentary light curves

We continued to send out two light curves of choice as a small token of our appreciation—this year to 157 members and observers.

5. AAVSO educational projects

5.1. Hands-On Astrophysics (Project funded by NSF)

We published the first Hands-On Astrophysics Newsletter and distributed it widely to educators, and have received very favorable responses. The impressive number of requests that we have received for information on observing projects is partly due to this Newsletter.

One of teachers from last year's workshop, Sharmi Roy, spent a month at Headquarters this summer revising the HOA manual and incorporating new parts into it. The astrophotographer we selected, John Chumack, after much experimenting with film, exposure time, and observing sites, is now obtaining high quality photographs of the constellations in the project.

We have prepared a draft of the three videos that will be part of the HOA package, and are now looking for the best vendor to produce them.

We gave a half-day workshop for high school teachers as part of a Teachers' Workshop in Hawaii.

5.2. Partnership in Astronomy (Project funded by NASA)

This Partnership in Astronomy (PIA) program, connecting four local AAVSO members with middle schools, and in particular Lynnfield Middle School in Lynnfield, Massachusetts, continues. Mario Motta is in charge of activities. The major PIA activity this year involved 15 Lynnfield students grinding mirrors and building eight telescopes, which were completed and used during the school's star party.

In addition, we held a Variable Star Workshop for Central Massachusetts Math/Science Teachers at Lynnfield Middle School.

Other PIA activities continue, such as the creation of a Lynnfield-based lending library of astronomy books, which is much appreciated by teachers who use the books extensively for their science classes.

6. Summary of observations

Each month we receive thousands of variable star observations from around the world. These observations come from individual observers and from variable star associations in Belgium, France, Germany, Hungary, the Netherlands, Norway, South Africa, South America, Israel, and Spain.

In fiscal 1994-1995, we received a record high number of observations: 340,169 visual, photoelectric, and CCD observations from 570 observers around the world. These totals include 130,513 observations from 226 observers in 41 states and territories of the United States and 209,656 observations from 344 observers in 37 countries. New York (13,972 observations), Massachusetts (11,891), and New Mexico (11,718) led the United States, while Germany (29,791), Belgium (28,286), and Hungary (25,969) led the countries abroad.

The total number of observations since 1911 in the AAVSO International Database is 8,151,318.

The 8 millionth AAVSO observation was made by Gary Poyner of Birmingham, England, when he observed R Coronae Borealis at magnitude 6.0 on JD 2,449,827.484 (1995 April 19.984 UT). Gary is the Director of the Variable Star Section of the British Astronomical Association, an avid observer, and an AAVSO member.

Table 1 lists the number of observers and the total observational contribution from each country during this fiscal year. Table 2 gives the same information for each state in the United States. Table 3 is an alphabetical list of observers, giving each person's observing initials, name, location, and annual totals of observations and inner sanctum observations (magnitude 13.8 or fainter, or "fainter than" 14.0 or fainter).

This year 39 observers reported between 1000 and 2000 observations; 18 between 2000 and 3000; 7 between 3000 and 4000; and 2 between 4000 and 5000 observations. Warren Morrison (Canada) reported 5,135 observations; Paul Vedrenne (France) 5,993; John Isles (Michigan) 6,056; Michael Moeller (Germany) 6,257; Gary Poyner (England) 6,559; William Albrecht (Hawaii) 7,296; Lasse Teist Jensen (Germany) 7,596; Marvin Baldwin (Indiana) 8,516; Laszlo Szentasko (Hungary) 8,611; John Bortle (New York): 8,706. Our top 5 observers for the year were Tonny Vanmunster (Belgium), with 9,002 observations; David York (New Mexico) with 9,255; Gerry Dyck (Massachusetts) with 9,380; Alfons Diepvens (Belgium) with 13,208; and Danie Overbeek (South Africa), with 18,601 observations.

Gerry Dyck reported the highest number of Inner Sanctum observations (5,706) followed by Tonny Vanmunster (5,683) and David York (5,537).

We have received 2934 photoelectric V observations from 16 of our photometrists. Howard Landis, the chairman of AAVSO Photoelectric Photometry Committee, continues to give generously of his time and effort to see that all of our photoelectric data are computerized, reduced to a standard format, and archived by star.

We have received 483 BVRI observations of AAVSO charge-coupled device (CCD) program stars from 3 of our CCD observers. Gary Walker, the co-chair of AAVSO CCD Committee, contributes much time and effort to assure that these CCD data are reduced to a standard format and archived by star.

My sincere thanks to all our observers for their dedicated contributions, whether one or thousands of observations. Our observers are the key element in the AAVSO's success.

6.1. International cooperation

We acknowledge with appreciation the observations sent to the AAVSO by members of the following variable star associations, either individually or as a group, for inclusion in the AAVSO International Database for dissemination to the astronomical community:

- a. Agrupación Astronómica Albireo of Seville (Spain);
- b. Agrupación Astronómica Aragonesa (Zaragoza, Spain);
- c. Asociación Argentina Amigos de la Astronomía;
- d. Association Française des Observateurs d'Étoiles Variables (France);
- e. Astronomical Society of Southern Africa, Variable Star Section;
- f. Astronomischer Jugendclub (Austria);
- g. Astronomisk Selskab (Scandinavia);
- h. British Astronomical Association, Variable Star Section (England);
- i. British Astronomical Association of New South Wales (Australia);
- j. Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany);
- k. Grupo Canario de Estrellas Variables (Canary Islands, Spain);
- l. Israeli Astronomical Association, Variable Star Section;
- m. Liga Ibero-Americana de Astronomía (South America);
- n. Madrid Astronomical Association M1 (Spain);
- o. Magyar Csillagászati Egyesület, Változócsillag Szakcsoport (Hungary);
- p. Nederlandse Vereniging Voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands);

- q. Norsk Astronomisk Selskab, Variable Stjernegruppen (Norway);
- r. Planetario e Observatorio Astronomico do Colegio Estadual do Parana (Brazil);
- s. Red de Observadores de Estrellas Variables—MIRA (Spain)
- t. Royal Astronomical Society of Canada;
- u. Royal Astronomical Society of New Zealand, Variable Star Section;
- v. Sociedad Astronómica "Syrma" (Valladolid, Spain);
- w. Svensk Amator Astronomisk Förening variabelsektionen (Sweden);
- x. Uniao Brasileira de Astronomia, Variable Star Commission (Brazil);
- y. Unione Astrofili Italiani (Italy);
- z. Variable Star Observers League in Japan;
- aa. Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium).

7. Membership

This year, at the 84th Spring Meeting held in Stamford, Connecticut, we elected 33 new members, 1 of whom joined as a Junior Member. A list of these new members appears on page 70 of Vol. 24, No. 1 of the *Journal*. At the 84rd Annual Meeting, held in Cambridge, Massachusetts, we elected 51 new members, 1 of whom joined as Sustaining and 4 of whom joined as Junior Members. A list of these new members appears on page 140 of this issue.

This year 10 members changed their membership from Annual to Sustaining, thus supporting the operation of the Association doubly with their dues.

8. AAVSO publications

8.1. AAVSO publications this fiscal year

The following publications were published by the AAVSO during this fiscal year:

- a. *Journal of the AAVSO*, Volume 22, Nos. 1 and 2, edited by Charles A. Whitney, with assistance from Elizabeth O. Waagen, Tanja E. Foulds, and Lynn M. Anderson;
- b. *AAVSO Bulletin 58: 1995 Predicted Dates of Maxima and Minima of 561 Long Period Variable Stars*, prepared by Janet A. Mattei;
- c. *AAVSO Alert Notices*, Nos. 195–215, prepared by Janet A. Mattei;
- d. *AAVSO Circular*, Nos. 288–299, edited by John E. Bortle, with assistance from Charles E. Scovil and Robert Leitner;
- e. *AAVSO 1995 Ephemeris for Eclipsing Binaries*, prepared by Gerard Samolyk and Marvin E. Baldwin;
- f. *AAVSO 1995 Ephemeris for RR Lyrae Stars*, prepared by Gerard Samolyk and Marvin E. Baldwin;
- g. *Observed Minima Timings of Eclipsing Binaries, No. 2*, prepared by Marvin E. Baldwin and Gerard Samolyk;
- h. *AAVSO Solar Bulletin*, Vol. 50, Nos. 10–12; Vol. 51, Nos. 1–9, edited by Peter O. Taylor;
- i. *SID Technical Bulletin*, Vol. 5, No. 4; Vol. 6, Nos. 1–3, prepared by Arthur J. Stokes and Peter O. Taylor;
- j. *CCD Views*, Vol. 1, No. 2, edited by Gary Walker;
- k. *AAVSO Newsletter*, Nos. 14–15, edited by Tanja E. Foulds and Lynn M. Anderson.

8.2. Publication of AAVSO Monographs

We are continuing to publish AAVSO Monographs and Monograph Supplements. The initial evaluation of data for monographs on the following stars has been completed: Z Cam, RX And, RS Oph, and HL CMA.

Our goal is to publish the Monographs at a much faster rate than has been possible in the past. To this end, we have developed much more efficient computer programs to prepare the data and the introductory tables for publication.

9. Other publications with AAVSO participation

a. Predicted maxima dates of bright long period variables and ephemerides of a few easy-to-observe stars were published by J. A. Mattei, together with an article on "Variable Star of the Year—Algo!" with J. R. Percy, in the 1995 *Observer's Handbook* of the Royal Astronomical Society of Canada.

b. Monthly predictions of maxima dates of bright long period variables were published by J. A. Mattei in *Sky & Telescope* magazine.

c. "The AAVSO and its Variable Star Data Bank" was published by J. Akyüz Mattei in *ESO Conference Workshop Proceedings No. 43* (Conference on Astronomy from Large Databases II), 1992.

d. "Three Short Period Miras—Z Aql, RZ Sco, and R Cet: Water Maser Emission and its Implications" was published by I. R. Little-Marenin, J. A. Mattei, and R. R. Cadmus, Jr. in *Bulletin of the American Astronomical Society*, 26, p. 835, 1994.

e. "HUT Observations of the White Dwarf in U Geminorum" was published by K. S. Long, J. C. Raymond, W. P. Blair, and J. A. Mattei in *Bulletin of the American Astronomical Society*, 27, p. 835, 1995.

f. "A Chaotic Pulsating Star: The Case of R Scuti" was published by J. R. Buchler, T. Serre, Z. Kollath, and J. Mattei in *Physics Review Letters*, 74, p. 842, 1995.

g. "EUVE Observations of the Anomalous 1993 August Outburst of SS Cygni" was published by C. W. Mauche, J. C. Raymond, and J. A. Mattei in *The Astrophysical Journal*, 446, p. 842, 1995.

10. Meetings attended and talks given

It has been a very busy year during which I travelled to three continents, attended inspiring astronomical meetings, visited members and observers, and gave 18 talks and poster presentations.

In late January and first part of February, I travelled to South Africa to attend IAU Colloquium 156—Astrophysical Applications of Stellar Pulsations. While in South Africa, I spent a few days in Edenvale as the guest of Danie Overbeek. I witnessed in person the incredible devotion of Danie to astronomy and variable star observing, and his very efficient observing techniques and record keeping. I was delighted to visit Jan Smit, another devoted variable star observer in Pretoria, and to see the very efficient observatory that he designed.

After my talk in Johannesburg, I was very pleased to meet many of our active South African observers in that region. Later, I travelled to Bloemfontein to give a talk at the University of the Orange Free State, to meet several enthusiastic amateur astronomers, and to visit the Boyden Observatory that was once Harvard's Southern Station. I then travelled to Cape Town to attend the colloquium, during which I presented three poster papers and gave a talk to the Cape Town section of the Astronomical Society of Southern Africa (ASSA).

While in Cape Town, I had the pleasure of meeting several colleagues whom I knew only by name up till then, such as Drs. Alan Cousins and Tom Lloyd Evans. I saw the famous refractor with which one of our top observers, Reginald De Kock, made his observations, and I was able to visit with Jan Hers, the Director of the Variable Star Section of ASSA, and also with R. W. Jones, who is originally from Massachusetts, and with Peter Blommestein. My trip to this beautiful country, with its breathtaking flora and fauna, and very friendly people, was truly memorable.

In June I attended and gave a presentation on the AAVSO and our Hands-On

Astrophysics Project at a very inspiring teachers/students workshop in Hawaii entitled "Towards Other Planetary Systems (TOPS)," organized by Dr. Karen Meech, our former technical assistant and now a well-known astronomer. While in Hawaii, I was delighted to visit our members Bill Albrecht and Steve O'Meara. I was particularly happy to see Bill's observatory from which he makes thousands of observations each year. Bill joined me during my presentation at TOPS and shared his experiences as a variable star observer with the teachers. I was also very happy to visit our former administrative assistant Janet MacLennan Zisk and her husband Stan in Honolulu.

Upon returning from Hawaii, I attended the Astronomy Education Symposium of the Astronomical Society of the Pacific and presented poster papers on Hands-On Astrophysics and Partnership in Astronomy.

In September, I travelled to Italy as a guest of the Unione Astrofili Italiani (UAI) to attend the Annual Congress in Salerno, where I presented an invited talk and received the first UAI Lacchini Award, for which I am very honored. At the UAI Congress, I was happy to present AAVSO Nova Awards to Mirko Villi and Giancarlo Cortini for their joint discovery of Supernova 1994W in NGC 4041.

While in Italy, I presented talks at the impressive and historic Capodimonte Observatory in Naples, at the historic Villa Farsetti (where I was greeted by the Mayor of Santa Maria di Sala), and in Milan. In Padova, I visited the observatory of my colleague and gracious host (and the President of UAI), Giancarlo Favero, as well as the observatories of UAI members in Padova where they do impressive observing (including using CCDs). In Milan, I saw the UAI members' Antonio Grosso Observatory, where they are completing a 16-inch telescope, and also the Milan Observatory itself, which still has some beautiful historic instruments. I met with our observers Roberto Boccadoro, Sandro Baroni, Emilio Colombo, and Mauro Zanotta. I will always remember the friendship and hospitality of my hosts in Naples, Salerno, Padova, and Milan, and the enthusiasm, commitment, and the impressive work of the UAI members and amateur astronomers in Italy.

On my way back from Italy, I had meetings at Geneva Observatory, Switzerland, with Dr. Michel Grenon and his team to discuss the collaboration we have in the preparation of the *Hipparcos Atlas of Light Curves*, and to visit the newly-constructed, professional-quality observatory for amateur astronomers, François-Xavier Bagnoud Observatory at St. Luc in the Swiss Alps.

In addition to the above meetings, I attended several workshops and presented talks on the AAVSO and variable stars (see below).

- a. "Woman Astronomers"—Brandeis University, Waltham, MA
- b. "Treasures of the Universe"—Lowell, Massachusetts
- c. "The AAVSO and the Contributions of South African Observers to Variable Star Research"—Johannesburg, South Africa
- d. "The Activities of the AAVSO and South African Observers in Variable Star Research"—University of the Orange Free State, Bloemfontein, South Africa
- e. "The AAVSO and Contributions of South African Observers to Variable Star Research"—Cape Town, South Africa
- f. IAU Colloquium 156—Astrophysical Applications of Stellar Pulsation, Cape Town, South Africa
 - i. "The AAVSO and Its Variable Star Databank on Pulsating Stars" (poster)
 - ii. "Dramatic Period Decrease in T Ursae Minoris—Beginning of a New Era?," with Grant Foster (poster)
 - iii. "Long Period Variables Monitored by AAVSO and HIPPARCOS in the

- HIPPARCOS Atlas of Light Curves," with Michel Grenon (poster)
- iv. "Hands-On Astrophysics: Variable Stars in the Science/Math Lab," with John Percy, Michael Saladyga, Lynn Anderson (poster)
 - g. "AAVSO and Variable Stars"—TOPS Science Teachers Workshop, Waimea, Hawaii
 - h. Astronomy Education Symposium at the Astronomical Society of the Pacific Meeting, College Park, Maryland
 - i. "Hands-On Astrophysics: Variable Stars in the Math/Science Lab," with John Percy, Michael Saladyga, and Lynn Anderson (poster)
 - ii. "Partnership in Astronomy," with Mario Motta and Lynn Anderson (poster)
 - i. "AAVSO and Variable Star Observing"—Workshop For Teachers of Introductory Astronomy, Boulder, Colorado
 - j. Two talks on "The AAVSO and Its Activities"—RTUFSSO Teachers' Workshop at Harvard-Smithsonian Center for Astrophysics, Cambridge, MA
 - k. "AAVSO and Its Activities"—Capodimonte Observatory, Naples, Italy
 - l. "AAVSO and Its Activities, Particularly with CCDs"—Meeting of the Italian Union of Amateur Astronomers, Salerno, Italy
 - m. "Contributions of Amateur Astronomers to Space Research on Variable Stars"—Villa Farsetti, Santa Maria di Sala, Italy
 - n. "AAVSO and the Contributions of Amateur Astronomers to Space Research on Variable Stars"—Milan Amateur Astronomers, Italy

11. Personnel at Headquarters

Our Association is extremely fortunate to have a fantastic group of people as staff members at the Headquarters of the Association. They are dedicated, hardworking, conscientious, team-spirited, very caring and nice. I would like to express my sincere appreciation and thanks to our Headquarters staff who assist me in running the Association: Elizabeth Waagen, my senior technical assistant; Grant Foster, computer specialist; technical assistants Michael Saladyga, William Mackiewicz, Shawna Helleur, Rebecca Pellock, and Elena Kahn; Barbara Silva, data entry technician; Lynn Anderson, publications coordinator; Sara Beck and John Beck, part-time technical staff; Donna Eldridge, part-time data entry technician; Ben Oppenheimer, Robin Shostack, and Samantha van Gerbig, summer technical assistants; and loyal volunteer Frank McCarrison.

I also thank Tanja Foulds, our former meeting organizer and project coordinator, who now works at Harvard University. We miss her excellent work, and appreciate that she can still work for us at night or on weekends when needed.

12. Acknowledgements

With deep appreciation and gratitude I now want to thank all those who have contributed so much to the Association this year.

We remember Clint Ford with fond memories, love, and gratitude, for the very special feeling he had for the AAVSO, for his generosity, for providing us with our own Headquarters and with a legacy—the Clinton B. Ford Fund—that assures a sound future for the AAVSO.

Our appreciation and thanks go to our dedicated, devoted, and untiring observers—570 of them around the world this year—the unsung heroes of the AAVSO who make this Association vital to variable star research. Special thanks to all those observers who have contributed to special satellite observing programs, such as ASTRO-2, EUVE, and HST, and to all observers who phone in or e-mail their up-to-date

observations to Headquarters, in addition to sending in their monthly reports.

Our thanks to members who support the AAVSO with their dues, and special thanks to those who have generously contributed above their dues so that we can serve you, our members, and the astronomical community well.

My sincere thanks and appreciation go to our committee chairpersons who give so generously of their time and wisdom to the committee(s) for which they are responsible. Thanks to Marvin Baldwin, Kenneth Beckmann, Priscilla Benson and Gary Walker, Robert Evans, Howard Landis, Charles Scovil, and Peter Taylor. I very much appreciate the support of our vice presidents Albert Holm and Paul Sventek, and of our Council members: Mark Adams, Priscilla Benson, John Isles, Daniel Kaiser, Charles Scovil, Gary Walker, Lee Anne Willson, and Robert Wing.

I especially thank Wayne Lowder, our president, and Martha Hazen, our secretary, for their support and wisdom and for always being there to help with matters of the Association.

A very special thanks to our treasurer, Theodore Wales, for his wisdom, financial expertise, for his caring so deeply about the good of the Association, and for giving so generously of his time.

My personal thanks to Mike Mattei for not just being the Clerk of the AAVSO, but especially for being a very supportive and understanding spouse.

12.1. Grants

We have been very fortunate to receive strong financial support from institutions and government agencies this year. I gratefully acknowledge the following:

a. National Aeronautics and Space Administration (NASA), for grants to provide data support for the Hipparcos satellite in the astrometric and photometric observations of large amplitude variable stars; for the education extension grant from NASA's Astrophysics Division in support of the AAVSO's Partnership In Astronomy (PIA) program; as a co-investigator with Dr. Christopher Mauche in the observations of SS Cyg and VW Hyi with EUVE; and as a co-investigator with Dr. Edward Sion in the observations of VW Hyi and U Gem with HST.

b. National Science Foundation (NSF), for the grant from the Education Division for the preparation of the project Hands-On Astrophysics: Variable Stars in the Science/Math Lab.

c. National Oceanographic and Atmospheric Administration (NOAA), for the grant for the operation of our Solar Division.

12.2. Institutional support

Our very special thanks go to the following institutions:

a. Stamford Observatory, for allowing Charles Scovil and John Griesé to use the 22-inch telescope to make variable star observations, and for allowing Charles Scovil and Robert Leitner to use the facilities of the observatory to prepare charts, the *AAVSO Circular*, and figures for the *Journal of the AAVSO*.

b. The University of Toronto, for the time John Percy and his students contribute to the Hands-On Astrophysics project.

c. The Smithsonian Astrophysical Observatory (SAO), for the computer time granted to us through the efforts of Professor Owen Gingerich and Barbara Welther that allowed us to archive our data on magnetic tapes and also have access to electronic mail.

We are very grateful to all of these individuals, institutions, and government funding agencies for their generous support.

I thank each of you again very sincerely for your observations and many contributions to the AAVSO, for you are the foundation of our progress and success.

Table 1. AAVSO Observer Totals 1994–1995, by Country

Country	No. Observers	No. Obs.	Country	No. Observers	No. Obs.
ARGENTINA	2	2031	ITALY	10	1448
AUSTRALIA	5	2735	JAPAN	3	2193
AUSTRIA	3	1318	MALTA	1	393
BELGIUM	16	28286	NETHERLANDS	10	10500
BOTSWANA	1	1037	NEW ZEALAND	2	203
BRAZIL	4	931	NORWAY	5	5329
CANADA	21	11594	PARAGUAY	1	49
CHILE	2	161	POLAND	9	4038
CROATIA	2	715	PORTUGAL	2	96
CZECH REPUBLIC	4	1661	ROMANIA	4	4006
DENMARK	6	8055	RUSSIA	1	52
ENGLAND	6	12365	SOUTH AFRICA	23	24785
FRANCE	32	17687	SPAIN	28	5903
GERMANY	36	29791	SWEDEN	1	943
GREECE	6	2951	SWITZERLAND	3	791
HAITI	1	1201	URUGUAY	1	60
HUNGARY	88	25969	USA	226	130513
INDIA	1	78	ZIMBABWE	2	194
IRELAND	1	106			
ISRAEL	1	1	TOTAL	570	340,169

Table 2. AAVSO Observer Totals 1994–1995, USA by State or Territory

State	No. Observers	No. Obs.	State	No. Observers	No. Obs.
ALABAMA (AL)	1	32	MISSOURI (MO)	6	559
ARIZONA (AZ)	12	3728	NEVADA (NV)	1	19
ARKANSAS (AR)	8	2345	NEW HAMPSHIRE (NH)	3	962
CALIFORNIA (CA)	27	6027	NEW JERSEY (NJ)	3	6142
COLORADO (CO)	7	5303	NEW MEXICO (NM)	3	11718
CONNECTICUT (CT)	11	2053	NEW YORK (NY)	13	13972
FLORIDA (FL)	5	3290	NO. CAROLINA (NC)	1	144
GEORGIA (GA)	2	1593	OHIO (OH)	9	3374
HAWAII (HI)	3	7301	PENNSYLVANIA (PA)	6	3383
IDAHO (ID)	2	68	PUERTO RICO (PR)	1	50
ILLINOIS (IL)	14	5270	SO. CAROLINA (SC)	2	405
INDIANA (IN)	7	10527	SO. DAKOTA (SD)	1	565
IOWA (IA)	4	1020	TENNESSEE (TN)	1	4
KANSAS (KS)	3	1783	TEXAS (TX)	12	2728
KENTUCKY (KY)	1	14	UTAH (UT)	2	701
LOUISIANA (LA)	1	12	VERMONT (VT)	2	76
MAINE (ME)	4	3184	VIRGINIA (VA)	5	4203
MARYLAND (MD)	8	844	WASHINGTON (WA)	2	396
MASSACHUSETTS (MA)	11	11891	WEST VIRGINIA (WV)	3	231
MICHIGAN (MI)	3	6061	WISCONSIN (WI)	12	4951
MINNESOTA (MN)	4	3584			
			TOTAL	226	130,513

TABLE 3. AAVSO Observers, 1994 - 1995

Code	Name	No. Obs.	No. I.S.	Code	Name	No. Obs.	No. I.S.
AAP	A. Abbott, Canada	1283	111	CWP	W. Clarke, California	18	
AMT	M. Adams, Texas	2		CNL	O. Cole Arnal, Canada	529	
AB	W. Albrecht, Hawaii	7296	55	COL	P. Collins, Arizona	1617	
ALN	R. Allison, Iowa	756	75	CME	@ E. Colombo, Italy	374	
AAA	A. Alves, Brazil	526		CMG	& G. Comello, Netherlands	2345	272
ABN	B. Anderson, California	17		CK	S. Cook, Arkansas	2161	
AEJ	E. Anderson, New York	340		COM	+ T. Cooper, South Africa	40	1
ALM	L. Anderson, Massachusetts	3		CSJ	∇ J. Coussens, Belgium	1	
AJR	J. Andress, Arizona	73		CCE	* C. Couvidon, France	1	
AJU	J. Antaw, Australia	61		CWD	D. Cowall, Maryland	102	
ARI	R. Ariali, South Carolina	399	1	COW	H. Coward, Jr., Texas	46	
ADN	D. Arnautovic, Australia	12		CR	T. Cragg, Australia	2478	684
ASH	S. Ashe, Colorado	8		CJH	J. Crast, Pennsylvania	71	
AKT	T. Atkin, Haiti	1201	9	CRR	R. Crumrine, New York	24	
AJM	* J.-M. Azema, France	9		CJK	# J. Csanyi, Hungary	93	
BGL	# G. Baglyas, Hungary	4		CNI	# N. Csarnai, Hungary	2	
BPY	+ P. Bailey, South Africa	1		CSK	# A. Csernik, Hungary	1	
BWY	W. Bailey, Alabama	32		CSM	M. Csukas, Romania	904	25
BGF	# G. Bakos, Hungary	3	3	CCO	λ C. Cubillo, Spain	279	
BM	M. Baldwin, Indiana	8516		CKB	B. Cudnik, Arizona	204	1
BIV	# I. Balogh, Hungary	524		CDT	D. Currier, California	57	1
BGZ	G. Banialls, Illinois	5		DMI	♁ M. Dahn, Germany	242	
BXA	* A. Baranski, France	169		DDM	@ M. Damiani, Italy	3	1
BSF	S. Barnhart, Ohio	110		DZD	# D. Danoczy, Hungary	19	
BSR	@ S. Baroni, Italy	594		DAM	λ M. Darriba, Spain	109	57
BNX	N. Bastos, Portugal	94		DMX	+ M. Datt, South Africa	1	
BBA	B. Beaman, Illinois	69	2	DAJ	J. Davis, Maryland	10	2
BTY	T. Benner, Pennsylvania	397	132	DFR	F. Dempsey, Canada	139	
BBV	B. Berendes, California	2		DJM	J. Dent, Arkansas	1	
BTU	T. Beresky, Missouri	260		DEX	✓ E. De San Ramon Garcia, Spain	9	
BEB	R. Berg, Indiana	396		DVI	+ F. De Villiers, South Africa	99	
BSH	♁ S. Beuno, Germany	2		DPA	∇ A. Diepvens, Belgium	13208	841
BFA	F. Bhatena, California	17		DRG	R. Diethelm, Switzerland	57	18
BIC	* L. Bichon, France	156	1	DRD	R. Dietz, Colorado	1	
BMM	∇ M. Biesmans, Belgium	720	381	DLA	A. Dill, Kansas	741	2
BPZ	P. Bilejszys, Poland	7		DIL	W. Dillon, Texas	1181	97
BKN	A. Birkner, Illinois	7		MDS	@ M. Dionisi, Italy	21	3
BGB	B. Blagg, Texas	32		DKT	* K. Dolp, Hungary	7	
BLD	+ D. Blane, South Africa	54		DMY	M. Dombrowski, Connecticut	4	
BGI	λ G. Blasco Gil, Spain	46		DPL	P. Dombrowski, Connecticut	786	202
BOH	♁ D. Boehme, Germany	184	1	GDB	# G. Dorneny, Hungary	54	
BNQ	# N. Boja, Hungary	12		DZS	S. Dominguez, Argentina	1894	
BEC	♁ E. Born, Germany	2479		DKI	* I. Drucsko, Hungary	4	
BRJ	J. Bortle, New York	8706	4442	DMB	♁ M. Duenas Berceuil, Spain	46	
BJO	λ J. Bosch, Spain	9	4	DMO	* M. Dumont, France	381	
BMU	& R. Bouma, Netherlands	1942	76	DGP	G. Dyck, Massachusetts	9380	5706
BPI	* P. Bourret, France	86		ELD	D. Elias, Greece	8	1
BMK	M. Bradbury, Indiana	266	19	ELP	P. Elias, Greece	2	
BZK	♁ R. Branzk, Germany	615		EL	J. Ellerbe, Spain	5	
BNW	♁ W. Braune, Germany	26		EM	G. Emerson, Colorado	8	5
BHA	♁ H. Bretschneider, Germany	127		EPE	♁ P. Enskonatus, Germany	355	
BSM	S. Brincat, Malta	393	29	EJO	# J. Erdei, Hungary	119	
BOS	∇ E. Broens, Belgium	2114	1259	EEM	# E. Eszeneyi, Hungary	14	
BJQ	J. Brooks, California	18		ELA	L. Eyers, Chile	31	
BBT	R. Browning, New Jersey	23		FCA	C. Fausel, Indiana	265	
BHC	♁ C. Bruhn, Denmark	43		FJH	& H. Feijth, Netherlands	4453	1088
BOA	* A. Bruno, France	119	28	FKJ	# J. Fekete, Hungary	1422	
BJY	J. Brydges, Arizona	32		FBID	D. Fernandez Barba, Spain	19	
BBY	+ B. Burdis, South Africa	1		FRF	# R. Fridrich, Hungary	2462	107
BKT	+ K. Burdis, South Africa	1		FJR	J. Finley, South Carolina	6	
BTH	T. Burrows, California	3853	972	FSJ	* J.-L. Fis, France	674	96
BFS	J. Butler, Connecticut	3		FEM	E. Flynn, Missouri	55	2
BDE	D. Byrd, Arkansas	2		FAT	# A. Fodor, Hungary	71	
CMR	R. Campbell, Florida	159	31	FDC	* F. Fodor, Hungary	18	
CGJ	J. Carragan, New York	2		FTR	# T. Fodor, Hungary	5	
CGW	W. Carragan, New York	4		FSE	@ S. Foglia, Italy	119	1
CVJ	λ J. Carvajal, Spain	2		FFC	* F. Foldesi, Hungary	132	
CNT	D. Chantiles, California	299	13	FMR	M. Fonovich, Croatia	657	
CGF	G. Chaple, Jr., Massachusetts	323	126	FTJ	T. Foulds, Massachusetts	1	
CJM	∩ J. Chavez, Spain	2		FRL	R. Fournier, Ohio	5	
OCR	∇ O. Chretien, Belgium	76		FBM	B. Fox, Ohio	22	
CTS	♁ T. Christensen, Denmark	1		FMC	* M. Frangeul, France	86	
CGT	% G. Christie, New Zealand	9		FML	& M. Fridlund, Netherlands	104	
CYA	A. Cichy, Poland	1242		FAA	@ A. Frosina, Italy	57	
CPH	* P. Claisse, France	54		FMG	G. Fugman, Iowa	92	1
CLK	W. Clark, Missouri	77		GMB	M. Gable, Ohio	197	

TABLE 3. AAVSO Observers, 1994 - 1995

Code	Name	No. Obs.	No. I.S.	Code	Name	No. Obs.	No. I.S.
GBZ	I O. Gabzo, Israel	1		JRJ	& R. Johanns, Netherlands	806	45
GEC	E. Gale, Iowa	142		JOG	G. Johnson, Maryland	179	
GAA	P. Garey, Illinois	6		JR	R. Johansson, Maryland	15	5
GJN	B J. Gensler, Germany	97		JRW	+ R. Jones, South Africa	2465	
GCP	B C. Gerber, Germany	238		JJL	+ J. Jooste, South Africa	1	
GVN	V. Giovannone, New York	171		JSZ	# S. Joza, Hungary	522	
GLG	G. Gliba, Maryland	3		JRU	* R. Juan, Spain	173	
GHA	B H. Goldhahn, Germany	1198		JPE	# P. Juharos, Hungary	22	
GIN	✓ I. Gomez, Spain	68		KB	W. Kaminski, South Dakota	565	97
GDV	£ D. Gonzalez, Spain	12		KID	# I. Kapus, Hungary	3	1
GDN	£ D. Gonzalez Rojas, Spain	22		KEI	E. Kato, Australia	82	1
GRL	\$ B. Granslo, Norway	4101	37	CTL	L. Keith, Wisconsin	512	1
GRI	J. Griese, Ill, Connecticut	270	190	KZK	# Z. Kerekgyarto, Hungary	1	
GOC	R. Grochowski, Poland	161		KRB	R. King, Minnesota	469	162
GLO	* L. Grouiller, France	24		KLI	+ L. Kinghorn, South Africa	3	
GCT	£ C. Grunnet, Denmark	189		KIL	# L. Kiss, Hungary	1330	36
GUB	∇ G. Gubbels, Belgium	800	18	KHB	H. Knapp, Jr., Florida	7	
GHD	H. Guidry, North Carolina	144	1	KGT	G. Knight, Maine	97	
GMM	M. Gumler, Texas	17		KSP	S. Knight, Maine	216	78
GUN	* J. Gunther, France	2852	470	KS	J. Knowles, New Hampshire	375	
GMF	M. Gutridge, Illinois	1		KOC	# A. Kocsis, Hungary	143	1
HAX	# A. Haasz, Hungary	3		KHL	M. Kohl, Switzerland	703	11
HCS	# C. Hadhazi, Hungary	963		KRS	R. Kohnan, Illinois	1965	290
HTY	T. Hager, Connecticut	497	253	KMA	M. Komorous, Canada	2381	10
HJT	# A. Hajdu, Hungary	18		KOS	* A. Kosa-Kiss, Romania	1527	
HKB	B. Hakes, Illinois	222		KTD	T. Koutsotheodoris, Greece	139	
HK	E. Halbach, Colorado	3403	81	KVI	# I. Kovacs, Hungary	295	
HTT	P. Hallett, Canada	29		KRO	# R. Krajcz, Hungary	1	
HMG	# G. Halmi, Hungary	120		KWO	# W. Kriebel, Germany	873	20
HMR	R. Ham, Colorado	1870	9	KRN	+ N. Kriek, South Africa	6	
HP	W. Hampton, Connecticut	16		KIS	# G. Krisch, Germany	3077	
HAQ	# A. Hamvai, Hungary	6		KRK	K. Krisztiunas, Hawaii	2	
HAN	J. Hannon, Connecticut	32	4	KJI	J. Krticka, Czech Republic	935	
HSG	G. Hanson, II, Arizona	1231	167	KRU	J. Kruta, Czech Republic	8	
HKT	+ K. Harrison, South Africa	1		KUC	* S. Kuchto, France	323	
HAV	R. Harvan, Maryland	458	117	KPB	P. Kuebler, Ohio	5	
HBL	B B. Hassforner, Germany	746		KPM	# G. Kuipers, Netherlands	35	2
HAI	A. Hastings, Massachusetts	18		KMN	# M. Kuklo, Hungary	1	
HSB	B W. Hasubick, Germany	1186	8	KGZ	# G. Kutrovacz, Hungary	13	
HDO	# M. Havassy, Hungary	12		KHE	H. Kuhn, Ohio	30	
HGD	G. Havner, Texas	14		LVK	# V. Lang, Germany	1	
HAB	R. Hays, Jr., Illinois	1182		LTO	# T. Lange, Germany	390	
HZL	L. Hazel, New York	707	199	LMP	M. Lara, Brazil	63	
FYE	E. Heironimus, Missouri	34		LSK	S. Laskowski, Wisconsin	60	
HEN	+ C. Henshaw, Botswana	1037		LZN	# Z. Lauer, Hungary	2	
HJN	+ J. Hers, South Africa	757	188	LVA	A. Lauvstad, Norway	339	1
HES	C. Hesselüne, Wisconsin	16		LZT	T. Lazuka, Illinois	662	
HVM	# M. Hevesi, Hungary	7		LEB	* R. Lebert, France	412	4
HRQ	# R. Hevesi, Hungary	165		LNZ	G. Lenz, Connecticut	129	
HEV	# Z. Hevesi, Hungary	1		LGE	* G. Letellier, France	123	
HJR	# Z. Hevesi, Jr., Hungary	69		LEV	A. Levetque, California	74	
HE	F. Hielt, Virginia	1682		LJW	W. Liller, Chile	130	5
HRI	R. Hill, Arizona	135		LAI	A. Ling, Canada	17	
HED	D. Himes, Ohio	38		LSL	S. Lloyd, California	36	
HZR	B R. Hinzpeter, Germany	69		LOB	λ J. Lobo-Rodriguez, Spain	9	
HIR	Y. Hirasawa, Japan	1026	42	LWT	T. Lohvinenko, Canada	55	
HWD	W. Hodgson, England	105		LCS	C. Lomonaco, Brazil	3	
HFO	B G. Hoffer, Germany	23	1	LGV	G. Lopatynski, California	22	1
HAH	# A. Hoffman, Hungary	3		LRD	D. Loring, Utah	462	
HJO	£ J. Holtrop, Netherlands	425	6	LEJ	E. Los, New Hampshire	23	
HZI	J. Holtz, Pennsylvania	595		LML	£ M. Lou, Spain	39	
HOO	& G. Hooegeven, Netherlands	6		LVT	J. Lovett, New Hampshire	564	
HJH	J. Hopkins, California	3		LX	W. Lowder, New York	78	
HPE	# P. Horvath, Hungary	14		LTB	T. Lubbers, Minnesota	567	
HFD	P. Houlahan, Arizona	105	4	LBG	G. Lubcke, Wisconsin	668	44
HVA	∇ A. Houvenaeghe, Belgium	3		LFZ	@ F. Lucidi, Italy	86	
HUT	T. Hunter, Arizona	43	4	LKA	K. Luedeke, New Mexico	808	
HUR	G. Hurst, England	729	90	LHU	+ H. Lund, South Africa	67	
IPA	P. Ingrassia, Argentina	137		LRE	R. Lunsford, California	10	
ILS	J. Isles, Michigan	6056	84	MDW	W. MacDonald, II, Canada	178	6
IFJ	% F. Ives, New Zealand	194		MDH	H. Maddocks, Virginia	15	
JTP	* P. Jacquet, France	146	1	MLI	L. Maister, New York	637	11
JQL	* L. Jacquier, France	13		MPH	J. Manker, Georgia	175	
JMK	R. James, New Mexico	1655		MJZ	* J. Mazorro, Spain	659	
JJK	# K. Jensen, Norway	2		MIC	* C. Mariller, France	30	1
JLT	B L. Jensen, Denmark	7596	2646	MXR	R. Martin, Maryland	37	

TABLE 3. AAVSO Observers, 1994 - 1995

Code	Name	No. Obs.	No. I.S.	Code	Name	No. Obs.	No. I.S.
MRX	# H. Marx, Germany	1398	140	AST	R. Podesta, Paraguay	49	
MAQ	# A. Matus, Hungary	1		PZS	# Z. Forhanda, Hungary	168	
MAV	D. Matsnev, Russia	52		POX	M. Foxon, England	1910	236
MTT	J. Mattei, Massachusetts	5		PYG	G. Poyner, England	6559	3694
MTM	M. Mattei, Massachusetts	14		PRH	# R. Prait, Hungary	5	
MPR	# P. Maurer, Germany	859	227	PCJ	C. Freedom, Connecticut	3	
MGE	G. Mavrofridis, Greece	2400		PRI	L. Price, Wisconsin	13	
MJW	J. Mayer, Pennsylvania	890	17	PDQ	* D. Proust, France	18	
MAZ	M. Mazurek, California	7		PUJ	λ F. Pujol, Spain	600	64
MGU	T. McCague, Illinois	27		OPF	P. Quinn, Wisconsin	17	
MCV	P. McCrohan, Australia	102		QOE	* S. Quique, Spain	6	
MDP	P. McDonald, Canada	114		RKE	# K. Raetz, Germany	969	
MJP	P. McJunkins, Jr., Florida	11		RKM	# M. Raetz, Germany	1006	
MKJ	J. McKenna, New Jersey	2752	352	RRB	R. Raphael, Maine	617	252
MMC	M. Mealie, California	4		RCQ	# R. Recsek, Hungary	5	
MED	K. Medway, England	1974		REC	C. Reese, Tennessee	4	
MNZ	@ E. Meneguzzo, Italy	4		RFB	* F. Reigner, France	46	32
MSC	+ C. Mesu, Zimbabwe	2		REP	P. Reinhard, Austria	602	
MTY	# M. Meyer, Germany	403		RBN	* B. Renard, France	20	1
MTK	T. Michalik, Virginia	39		RHL	# H. Richter, Germany	9	
MDI	I. Middlemist, England	1088		RWI	W. Richter, Arkansas	25	
MRO	O. Midskogen, Norway	758	313	RSN	* S. Rigault, France	8	1
MRU	R. Miller, Texas	30		OJR	λ J. Ripero Osorio, Spain	2926	434
MKD	K. Milyard, Canada	8	6	RMT	+ M. Ritchie, South Africa	1	
MZS	# A. Mizser, Hungary	704	8	RPR	P. Robbins, Kansas	948	241
MCE	E. Mochizuki, Japan	21		RNB	+ N. Robinson, South Africa	24	
MZB	# C. Moczik, Hungary	1		RJN	* J. Rochefort, France	177	
MRV	R. Modic, Ohio	2952	459	RZD	λ D. Rodriguez, Spain	57	18
MOX	G. Moeller, Louisiana	12		RMU	λ M. Rodriguez Marco, Spain	405	8
MMI	# M. Moeller, Germany	6257		RJA	* J. Rohart, France	100	
MOD	D. Mohrbacher, Ohio	15		RGB	G. Rosenberg, Arizona	62	
MOL	J. Molnar, Virginia	1448		RSH	S. Rowse, Missouri	4	
MLF	+ L. Monard, South Africa	963		RSR	S. Roy, West Virginia	24	
MOW	W. Morrison, Canada	5135	347	RR	R. Royer, California	562	72
MKH	S. Mukherjee, India	78		RFN	# F. Rozsa, Hungary	38	1
MLQ	+ L. Munto, South Africa	2		RJV	* J. Ruiz, Spain	62	
MUY	∇ E. Muyllaert, Belgium	238	11	RVR	✓ R. Ruiz, Spain	46	
MJ	J. Myra, Colorado	8		RPH	H. Rumball-Petre, California	25	
NGL	# G. Nagy, Hungary	4		RIS	# I. Ruzsinka, Hungary	1	
NZO	# Z. Nagy, Hungary	307		RZM	M. Rzepka, Poland	2	
NMS	M. Nall, Missouri	129		SOV	λ J. Saint, Spain	49	6
NIP	I. Nartowicz, Virginia	1019		SJO	A. Sajtz, Romania	1507	
NJO	# J. Neumann, Germany	765		SSU	S. Sakuma, Japan	1146	287
NDL	D. Newville, Wisconsin	3		SLU	✓ L. Salas, Spain	4	
NKN	K. Nishimura, Hawaii	29		SOL	R. Salvo, Uruguay	60	
NXO	+ X. Nocando, South Africa	1		SAH	G. Samolyk, Wisconsin	2781	8
NBY	J. Nordby, Minnesota	2543	773	SGC	G. Sampson, Wisconsin	22	
NTS	T. Norion, West Virginia	21		STC	G. Santacana, Puerto Rico	50	
NVK	M. Novak, Texas	80		SCU	✓ C. Santana, Spain	11	
NOG	G. Nowak, Vermont	34		SPQ	# C. Sapi, Hungary	240	
NMW	M. Nowak, Poland	92		SKI	# K. Sarneczky, Hungary	186	16
ONY	* O. Nyiro, Hungary	9		SGE	G. Sarty, Canada	2	
OCN	S. O'Connor, Canada	101		SDY	# D. Scharnhorst, Germany	47	
ONJ	J. O'Neill, Ireland	106	3	SGN	G. Schembri, New York	3	
OES	D. Oesper, Iowa	30	1	SPK	# P. Schmeer, Germany	389	9
OJO	# J. Olesen, Denmark	120		SQR	R. Schmude, Jr., Georgia	1418	
OB	B. Oppenheimer, Massachusetts	20		SLZ	# G.-L. Schott, Germany	83	
OV	E. Oravec, New York	3256		SBD	R. Schultz, Texas	2	
OSW	W. Osborn, Michigan	2		SCZ	* E. Schweitzer, France	822	12
OSV	# L. Oswald, Hungary	265	23	SCE	C. Scovil, Connecticut	129	83
OB	+ D. Overbeek, South Africa	18601	69	SVV	V. Scurtu, Romania	68	
PLA	A. Padilla Filho, Brazil	339		SHS	S. Sharpe, Maine	2254	65
PCC	@ R. Papini, Italy	55		SSA	A. Sharpless, Washington	225	
PFS	# S. Papp, Hungary	2907	203	SHW	W. Sherman, Indiana	79	
PGI	G. Patel, Arkansas	1		SSF	J. Sia, California	1	
PMY	M. Paulson, Canada	11		SNE	N. Simmons, Utah	239	72
PRU	* R. Pavard, France	1		SKP	P. Skalak, Czech Republic	670	15
PN	A. Pearlmitter, Massachusetts	85		SKU	# J. Skobrak, Hungary	4	
PAE	A. Pereira, Portugal	2		SQJ	J. Small, Arkansas	1	
PGY	# G. Peter, Hungary	8		SLQ	L. Smelcer, Croatia	58	
PLY	L. Phillips, Indiana	8		SIC	C. Smialek, Canada	19	
PKI	O. Piechowski, Kentucky	14		SJX	+ J. Smit, South Africa	1310	
PTZ	J. Pietz, Germany	2051	91	SHA	H. Smith, Michigan	3	
PEY	E. Piggott, Arizona	43	2	SJE	James Smith, California	216	
PFU	* F. Pineau, France	4		SJO	John Smith, Arizona	6	
PIU	# J. Pirtid, Hungary	188		SMO	M. Smith, Arizona	177	

TABLE 3. AAVSO Observers, 1994 - 1995

Code	Name	No. Obs.	No. I.S.	Code	Name	No. Obs.	No. I.S.
SX	L. Snyder, Nevada	19		UCA	C. Unrein, Idaho	57	
SBV	# B. Somosvari, Hungary	4		VFR	* F. Vadic, Czech Republic	48	
SSZ	# Z. Soos, Hungary	127		VMN	# M. Vamosi, Hungary	9	
SOH	# H. Sorensen, Denmark	106		VAV	+ D. Van Aswegen, South Africa	2	
SJZ	J. Speil, Poland	1738		VCP	∇ P. Van Cauteren, Belgium	14	11
SPO	\$ J. Spongsveen, Norway	129		VDE	& E. Van Dijk, Netherlands	333	2
SC	C. Spratt, Canada	6		VHD	∇ D. Van Hessehe, Belgium	252	
SSP	P. Stamus, Colorado	5		VNL	∇ F. Van Looy, Belgium	535	73
STR	R. Stanton, California	280	227	VWS	∇ J. Van Wassenhove, Belgium	1	
SSY	S. Stawosy, Poland	10		VDH	& H. Van den Hil, Netherlands	51	
SVD	V. Steblina, Washington	171		VDL	∇ J. Van der Looy, Belgium	1281	
SKS	T. Steckner, Canada	8		VMT	∇ T. Vanmunster, Belgium	9002	5683
STI	P. Steffey, Florida	1643	121	VED	* P. Vedrenne, France	5993	
SET	C. Stephan, Florida	1470	49	VET	* M. Verdenet, France	3294	1796
STF	G. Stephanopoulos, Greece	164		VIA	* J. Vialle, France	23	
SWT	R. Stewart, New Jersey	3367	1342	VNZ	# Z. Vician, Hungary	86	29
STQ	N. Stoikidis, Greece	238		VJF	J.-F. Viens, Canada	343	53
SHZ	# H. Struerver, Germany	212		VAN	# A. Viertel, Germany	87	
SUK	M. Stuka, California	5		VMO	@ M. Villi, Italy	135	
SUX	✓ M. Suarez, Spain	229	10	VIN	+ J. Vincent, Zimbabwe	192	
SWV	D. Swann, Texas	475		VII	# I. Vincze, Hungary	32	
SSW	S. Swierczynski, Poland	717		VFK	# F. Vohla, Germany	3078	6
SDX	D. Sworin, California	253	25	VOL	W. Vollmann, Austria	594	
SBZ	# B. Szabo, Hungary	4		VVI	# V. Voroshazi, Hungary	22	
SGO	# G. Szabo, Hungary	24	1	WGR	G. Walker, Massachusetts	164	115
SIZ	# Rita Szabo, Hungary	46		WKP	P. Walker, Vermont	42	7
SBT	# Robert Szabo, Hungary	904	249	WSM	+ S. Walsh, South Africa	384	17
SXP	# P. Szakal, Hungary	23		WSI	R. Wasatonic, Maryland	40	
SAO	# A. Szauer, Hungary	136		WNF	N. Wasson, California	60	
SLY	# L. Szegedi, Hungary	35		WER	R. Weber, Kansas	94	
SNO	# L. Szentasko, Hungary	8611	4801	WPU	P. Weeks, California	59	
SZK	# G. Szitkay, Hungary	1		WEI	D. Weier, Wisconsin	778	178
SFZ	# F. Szoke, Hungary	11		WC	R. Wendt, Illinois	885	1
TDV	D. Tancig, Illinois	17		WPA	P. Wendt, California	15	
TDB	D. Taylor, Canada	219	70	WET	T. Weselak, Poland	69	
TSZ	# S. Teichner, Hungary	16		WEF	F. West, Pennsylvania	1400	
TBA	B. Tekatch, Canada	165		WTJ	J. West, Texas	27	5
TPH	P. Teng, Austria	122		WDM	π M. Westlund, Sweden	943	5
TOK	# O. Tenkei, Hungary	8		WYT	T. Weyenberg, Wisconsin	17	
TPS	# I. Tepliczky, Hungary	39		WTK	# K. Wieszt, Hungary	149	
TPJ	P. Thebeault, Minnesota	5		WI	D. Williams, Indiana	997	2
TAX	# A. Thomas, Germany	17		WTI	T. Williams, Arkansas	1	
THR	R. Thompson, Canada	852		WJY	∇ J. Wilms, Belgium	23	
THU	* B. Thouet, France	1496	126	WLP	∇ P. Wils, Belgium	18	3
TIA	# A. Timar, Hungary	74		WDN	D. Wilson, Texas	822	37
TRL	R. Togni, Arkansas	153	1	WNS	T. Wilson, West Virginia	186	64
TST	S. Toothman, Illinois	87		WKM	M. Wiskirken, Idaho	11	
TRT	# T. Tordai, Hungary	70	1	WUL	# U. Witt, Germany	233	
TGO	# G. Toth, Hungary	1		WTW	* J.-M. Wittwer, France	27	
TTJ	# J. Toth, Hungary	10		WJM	J. Wood, California	109	
TTK	# K. Toth, Hungary	1371	3	YRK	D. York, New Mexico	9255	5537
TSC	S. Tracy, Connecticut	184	62	YON	R. Young, Pennsylvania	30	
TRF	C. Trefzger, Switzerland	31	11	ZAG	# G. Zajacz, Hungary	337	
TKM	M. Trinkala, New York	4		ZZ	# Z. Zakany, Hungary	3	
TDM	D. Troiani, Illinois	135	3	ZLT	# T. Zalesak, Hungary	92	2
TYS	R. Tyson, New York	40		ZRE	R. Zissell, Massachusetts	1878	1012
UND	G. Underhay, California	5		ZT	R. Zit, Wisconsin	38	12

These symbols indicate observers are also affiliated with the groups below:

- € Agrupacion Astronomica Aragonesa (Zaragoza, Spain)
- * Association Française des Observateurs d'Étoiles Variables (AFOEV)
- + Astronomical Society of Southern Africa, Variable Star Section
- # Astronomisk Selskab (Scandinavia)
- § Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany)
- ✓ Grupo Canario de Estrellas Variables (Canary Islands, Spain)
- ! Israeli Astronomical Association, Variable Star Section
- λ Madrid Astronomical Association M1 (Spain)
- # Magyar Csillagászati Egyesület, Valtözcillag Szakcsoport (Hungary)
- & Nederlandse Vereniging voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands)
- \$ Norwegian Astronomical Society, Variable Star Section
- § Royal Astronomical Society of New Zealand (RASNZ)
- ∩ Sociedad Astronomica 'Syrma' (Valladolid, Spain)
- ∩ Svensk Amatörastronomisk Förening, variabelektionen (Sweden)
- @ Unione Astrofili Italiani (UA1)
- ∇ Vereniging voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium)

Table 4. Individuals Requesting AAVSO Data During Fiscal Year 1994-1995.

<i>Name</i>	<i>Affiliation</i>
L. Adams	Hudson, OH
M. Adams (2)	McDonald Observatory, TX
A. Adler	Palo Alto, CA
J. Africano (2)	Rockwell Power Systems, HI
E. Aldarondo	Bronx, NY
B. Almond	British Columbia, Canada
A. Altamore/A. Cassatella	Instituto Astronomico, Rome, Italy
F. Anderson	Bothell, WA
J. Anderson	Upper Marlboro, MD
T. Angert	Portland, OR
N. Arzon	Dallas, TX
K. P. Badu	Kathmandu, Nepal
D. Ballard	Woodland, CA
S. Banerji	Meghnad Saha Planetarium, West Bengal, India
J. Banos	Iron Mountain, MI
D. Barrows	Centerville, MA
D. Barthès (2)	Université de Montpellier, France
R. Bell	NASA
A. Benz	Eidgenössische Technische Hochschule, Switzerland
F. Berendse	Minneapolis, MN
R. Berman	Discover magazine
J. Birriel	University of Pittsburgh, PA
W. Blair / ASTRO-2 (35)	Johns Hopkins University, MD
J. Bloch (2)	Los Alamos National Laboratory, NM
J. Bortle	Stormville, NY
J. Brabt	Newark, NJ
M. Bradbury	Indianapolis, IN
J. Breen	University of Virginia
E. Broens	Mol, Belgium
J. Brooks	Skyline Observatory, Santa Ynez, CA
G. Burnette	West Chester, OH
T. Burrows	Novato, CA
J. Caffey	Springfield, MO
P. Camilleri	Cobram, Victoria, Australia
J. Cannizzo (2)	NASA Goddard Space Flight Center, MD
R. Carney	Alachua, FL
B. Carroll / D. Ostlie	Weber State University, UT
C. Chancellor	Oklahoma City, OK
J. Chapman	Australia
R. Chipman	University of Alabama in Huntsville
S.-H. Cho	Korea Astronomy Observatory
J. Chumack	Dayton, OH
B. Cicioni	Cranston, RI
G. Clayton (3)	University of Colorado
D. Cook	Pueblo, CO
M. Couth	Petaluma, CA
R. Cowen	Science News, Washington, DC
R. Crumrine	Fairport, NY
J. Cutliroff	Miami Beach, FL
W. Danchi	University of California at Berkeley
C. Day	Albuquerque, NM
R. Dean	Lebanon, MO
L. Deckman	Eugene, OR
M. de Groot	Armagh Observatory, Ireland
J. Dent, <i>et al.</i>	Arkansas School for Math & Science
R. Devlin	Harmonsburg, PA
R. Didick	Rehoboth, MA
W. Dillon (2)	Missouri City, TX

Table 4, cont. Individuals Requesting AAVSO Data During Fiscal Year 1994-1995.

<i>Name</i>	<i>Affiliation</i>
W. Dishong	Miami Planetarium, FL
C. Donoghue	King of Prussia, PA
M. Dueñas	Zaragoza, Spain
G. Dyck	Assonet, MA
R. Dyck	Salinas, CA
D. Dymond	New Britain, CT
P. Elie	Dracut, MA
J. Emerson	Denver, CO
D. Engels	University of Hamburg, Germany
B. Esprey (3)	Johns Hopkins University, MD
R. Falstreau	Bay City, TX
W. Feibelman	NASA Goddard Space Flight Center, MD
A. Foster	Mojave, CA
D. Fredrickson	Battle Ground, WA
M. Friend	Houston, TX
B. Gaensicke	Universitätssternwarte Göttingen, Germany
P. Garnavich (2)	Harvard-Smithsonian Center for Astrophysics, MA
R. Gassol	San Diego, CA
R. Gehrz (2)	University of Minnesota
M. Glasby	Lapeer, MI
J. Godin	Victoria, Canada
C. Golof	Hamilton, VA
P. Grange	Vero Beach, FL
J. Greber	Brookline, MA
D. Green (7)	Harvard-Smithsonian Center for Astrophysics, MA
S. Greenstein	Columbus, GA
M. Grenon / HIPPARCOS (31)	Geneva Observatory, Switzerland
E. Griffin (2)	University of Cambridge, England
R. Griffin	Ruston, LA
M. Haas	NASA Ames Research Center, CA
M. Hazen	Harvard-Smithsonian Center for Astrophysics, MA
W. Heiges	Elk Grove, CA
A. Hempelmann	Astrophysikalisches Institut, Potsdam, Germany
K. Herker	Dearborn, MI
J. Hernandez	Jackson, TN
D. Hofbauer	Canyon Country, CA
K. Holland	University of Leicester, England
S. Howell (3)	Planetary Sciences Institute, Tucson, AZ
J. Hron	Institute for Astronomy, Vienna, Austria
K. Hultquist	Greenwich, CT
D. Humphrey	Athens, PA
M. Hurwitz	University of California at Berkeley
M. Ishida	Institute of Space and Astronautical Science, Japan
J. Isles	Jackson, MI
P. Jarvi	Warren, VT
J. Johnson (3)	University of Wisconsin
L. Johnson	National Evaluation Systems, MA
M. Karovska (3)	Harvard-Smithsonian Center for Astrophysics, MA
S. Keats	Branford, FL
A. Kellomäki	Tampere University of Technology, Finland
A. Kempa	Manhasset, NY
D. Kernaghan-Baez	Martinez, GA
M. King	Lambertville, NJ
J. Konecny	Station Astrophysics of the Sun, Litovel, Czech Republic
E. Kong	Wellesley, MA
P. Kroll	University of Tübingen, Germany
?. Kunjaya	Kyoto, Japan

Table 4, cont. Individuals Requesting AAVSO Data During Fiscal Year 1994–1995.

<i>Name</i>	<i>Affiliation</i>
L. Kurtz	Old Westburg, NY
L. Kushins	New York, NY
C. LaDous (2)	IUE Station at VILSPA, Spain
M. Lattanzi	Space Telescope Science Institute, MD
G. Lee	Wilmington, DE
P. Lee	Louisiana State University, Baton Rouge
M. Lepezyk	Aliquippa, PA
I. Little	University of Colorado
J. Lockwood	Tucson, AZ
K. Long (4)	Space Telescope Science Institute, MD
S. Luttrell	Media, PA
M. Lysaght	University of Massachusetts, Amherst
N. MacAulife	Oxnard, CA
A. MacRobert (3)	<i>Sky & Telescope</i> , Cambridge, MA
J. Maharon	Salem, IN
A. Martin	Shreveport, LA
D. Martin	Dallas, TX
K. Marvel	National Radio Astronomy Observatory, NM
P. Mason	Case Western Reserve University, OH
P. Mattingly	Nightwatch Observatory, Fair Oaks, CA
C. Mauche (17)	Lawrence Livermore National Laboratory, CA
G. McCorry	Newport, RI
S. McGrath	Watertown, CT
J. McKenna (2)	Upper Montclair, NJ
F. Melograno	Lake Worth, FL
R. Mennickent	Universidad de Chile
K. Menten	Harvard-Smithsonian Center for Astrophysics, MA
S. Meier	The Aerospace Corporation, Los Angeles, CA
U. Michold	European Southern Observatory, Germany
L. Miller	Ft. Worth, TX
R. Morris	Parisburg, VA
M. Murray	Noble, OK
M. Nelson	<i>SuperScience Blue</i> , New York, NY
D. Nogami	University of Kyoto, Japan
S. North	Ames, IA
H. Nussbaumer	Eidgenössische Technische Hochschule, Switzerland
J. Osborne (2)	University of Leicester, England
R. Osterbart	Max-Planck-Institut für Radioastronomie, Germany
D. Overbeek	Edenvale, South Africa
J. Papish	Maple Heights, OH
B. Pepin	<i>Sky & Telescope</i> , Cambridge, MA
C. Perinelli	Island Park, NY
A. Piliparichius	LaGrange Park, IL
C. Pollard	Azusa, CA
J. Powers	Sadona, AZ
P. Rea	Dexter, MI
S. Reinicke	University of Munich, Germany
A. Retter	Tel Aviv University, Israel
M. Reynolds	Chabot Observatory, Oakland, CA
A. Richards	University of Manchester, England
W. Richter	Hot Springs, AR
F. Ringwald	Planetary Sciences Institute, Tucson, AZ
W. Rouse	Atlanta, GA
D. Roussel-Dupré (4)	Los Alamos National Laboratory, NM
S. Roy	Davis & Elkins College, Elkins, WV
C. Robinson	Pennsylvania State University
L. Robinson	<i>Sky & Telescope</i> , Cambridge, MA

Table 4, cont. Individuals Requesting AAVSO Data During Fiscal Year 1994-1995.

<i>Name</i>	<i>Affiliation</i>
Y. Rosenberg	New York, NY
S. Rubin	Bala Cynwyd, PA
P. Rybski	University of Wisconsin at Whitewater
M. Savino	Woodbury, MN
D. Sasselov	Harvard-Smithsonian Center for Astrophysics, MA
A. Schmiedekamp (2)	Arlington, PA
G. Schwarz	Arizona State University
W. Sears	NASA Jet Propulsion Laboratory
J. Shanklin	Cambridge, England
M. Shara	Space Telescope Science Institute, MD
S. Shawl (2)	University of Kansas
J. Shibley	<i>Astronomy</i> magazine
W.K. Shutt	Gilroy, CA
E. Sion (12)	Villanova University, PA
M. Sitko	University of Cincinnati, OH
G. Sloan	NASA Ames Research Center, CA
D. Sprayderry	Daphne, AL
H. Staub	Long Beach, NY
D. Steeghs	University of St. Andrews, Scotland
M. Stone	Laguna Niguel, CA
V. Strelnitski	New Mexico Technical University, NM
H. Struver	Duisburg, Germany
D. Swearingen	Indiana University
J. Szafarowicz	Toledo, OH
T. Szymkiewicz	Worcester Polytechnic Institute, RI
S. Talbot	Orem, UT
S. Teames	Hurst, TX
C. Thompson	Brewster, MA
S. Twardy	Sherborn, MA
R. Uglesich	Columbia University, NY
T. Unruh	Rocklin, CA
S. Varner	California State University
R. Viotti (3)	Istituto di Astrofisica Spaziale, Italy
G. Viscome	?
C. Walker	Austell, GA
S. Walker	Cos Cob, CT
G. Wallerstein (2)	University of Washington
H. Weiner	Boston, MA
W. Welsh (18)	Keele University, England
P. Wheatley	Astronomical Inst., Utrecht University, Netherlands
J. Wicker	Sarasota, FL
S. Wilk	Saugus, MA
K. Willcox	Bartlesville, OK
C. Williams	New Mexico State University
L. A. Willson	Iowa State University
T. Wilson	Ft. Richardson, AK
L. Wolf	Baton Rouge, LA
A. Worf	Nashville, TN
R. Wren	Hingham, MA
D. York	Abiquiu, NM
S. Yorika	Denison University, OH
L. Zong-Yun	Nanjing University, China

Note: A number in parentheses after a name indicates multiple requests.