

Annual Report of the Director for Fiscal Year 2006–2007

Arne A. Henden, Director

The Passing of an Era

The biggest single event of this past year was the relocation of the AAVSO Headquarters. We had been in our first purchased “home” at 25 Birch Street in Cambridge, Massachusetts, for two decades. That building served us well over the years, providing the extra room we needed at the time to handle the increased staff during the 1990s, with the archival data and data validation projects, and with the *Hands-On Astrophysics* development project, as well as providing space for the ever-increasing AAVSO archives.

However, by 2005 it became apparent that we were running out of room, and that the headquarters building was in need of renovation. We investigated the cost of repairing the building, along with zoning and code requirements, and decided that it was a huge expense to repair a building that was only marginally large enough to handle the existing staff and records, much less any future growth.

We searched in the immediate Boston area, as well as checking costs of building and relocation to other states. Most places were too expensive, not located near mass transit, in far worse shape than the existing headquarters, or would be a major disruption during a long and extensive move. We desired to keep the existing staff if at all possible, as it takes a long time to learn how the AAVSO works and to be effective. In the end, this meant finding someplace in the vicinity of the existing headquarters.

At the same time, we heard from *Sky & Telescope* magazine (whose offices were right next to the old AAVSO headquarters) that they were planning to relocate, and would be placing their three buildings on the market during the spring of 2006. They attempted to sell the buildings as a single parcel, hoping to find a developer who would be interested. However, it became apparent that the two buildings closest to our headquarters would

be sold separately from their main building at 49 Bay State Road. We then made an offer on the main building, which was accepted in October, 2006. We closed on the building on December 27, 2006; a bright and sunny winter day—perhaps a good omen!



The new AAVSO Headquarters



Sky & Telescope moved about a mile away, on the other side of Danehy Park. They were overcrowded in their buildings, and it took a great deal of effort to get moved by October. When we took over the site, there was considerable trash, as well as damaged walls and additional repairs that had to be made. As usual when moving into a new building, we also needed to paint, add partitions, and in general make the space useful for our needs. For the entire month of January, we worked on cleaning things up, and had several work parties on weekends to get the bulk of the remodeling done. Volunteers such as Keith, Doug, and Sylvia Danskin, Gerry Dyck, Gary Walker, Mike Mattei, and Justin Przyby, joined forces with staff “volunteers” Michael Saladyga, Gamze and Haldun Menali, Elizabeth Waagen, Aaron Price, Matthew Templeton, Sara Beck, Kate Davis, Rebecca Turner, Travis Searle, and the Hends. It is amazing how much can be done with a large work party! Everyone rolled up their sleeves and took on any assigned task. Without these folks, we never would have been ready for the move.

At the same time, throughout the work-week the HQ staff were packing the old headquarters building. There were literally tons of old observations, archives of correspondence, observing logbooks, previous charts, etc. that had to get packed. We went through and selected what furniture was reasonable to move and what should be sold, given away, or trashed. This process took about a month, during which time HQ operations had to continue as usual—the public was (hopefully) unaware of the turmoil!

Finally, on February 2, 2007, the move took place. Three moving vans and a crew of a dozen strapping men moved everything from the old HQ to the new HQ. They earned their fee—we estimated about eight tons of furniture (desks, bookcases, many file cabinets) and twenty-four tons of paper, much of it taken out of the basement at 25 Birch and placed on the second floor of 49 Bay State. Unpacking started immediately as we had 600 flip-lid boxes that had to be returned to the movers within a week. We spent the next month finishing the unpacking, rebuilding bookcases, cleaning up the old HQ in preparation for sale, and at the same time, keeping the AAVSO working.

We sold the 25 Birch Street building on Thursday, March 29, 2007. President David Williams signed all of the necessary paperwork and we handed over the keys. Just this past week, we see that the old HQ has been rented out to an architectural firm, so it will remain a useful building for some time to come.

Internet Presence and the AAVSO Website

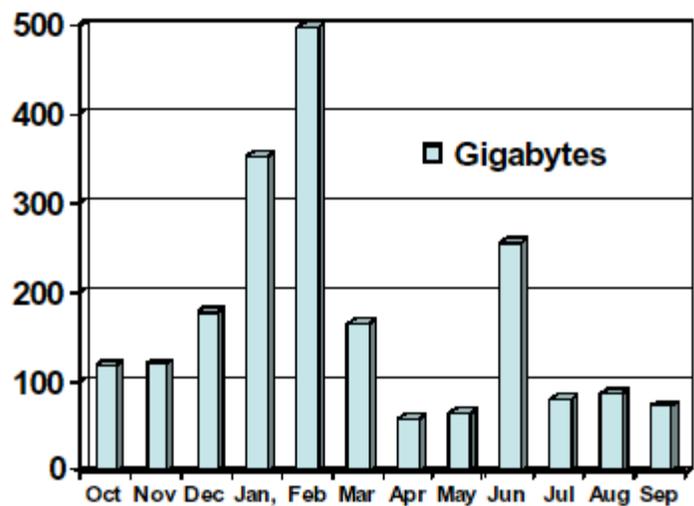
The most visible aspect of the AAVSO is our website. We work diligently to ensure that it is useful to our members and observers, as well as to outside researchers and anyone who happens across it. There is an enormous amount of information on the site, and everyone has their own idea as to how it should be presented. We continue to add and refine towards a better future. Kate Davis is the Webmaster, and has spent a large fraction of the year adding features.

The Blue and Gold section, where members and observers can access their records and submit observations, has had many changes. We've automated the membership renewal process, making it available on-line through PayPal/Verisign. This automatically updates your membership type when a renewal takes place. You can update MyNewsFlash profiles online.

An education/public outreach section was added. PayPal is now also used for online shopping and donations. An RSS feed was made available for rapid updates of page changes. With Matt and Sara's help, Kate implemented an online raw photoelectric photometry (PEP) submission form—software at HQ will process such data and place them automatically into the database. Webobs now gives you the ability to download all of your observations, or just to count them.

Kate Davis created many internal forms too—such as those that staff uses for preparation of Special and Alert Notices. Hidden behind the scenes are the many hours of effort to maintain the home page, reformat feature articles, and freshen links—all performed seamlessly by Kate.

We averaged about 200 gigabytes per month of transferred data this past year, with the largest transfers occurring in January and February, during our move. Most likely those peaks were caused by 'bots updating their records as we moved and changed our IP address. Another big peak occurred in June with the announcement of the VSP variable star plotter. We served about 40,000 distinct hosts per month, and had about 25,000 home page hits per month. These home page hits are often the less-frequent visitors, as most observers bookmark the lower-level page that they need and don't hit the home page nearly as frequently.



Data transferred during FY06–07

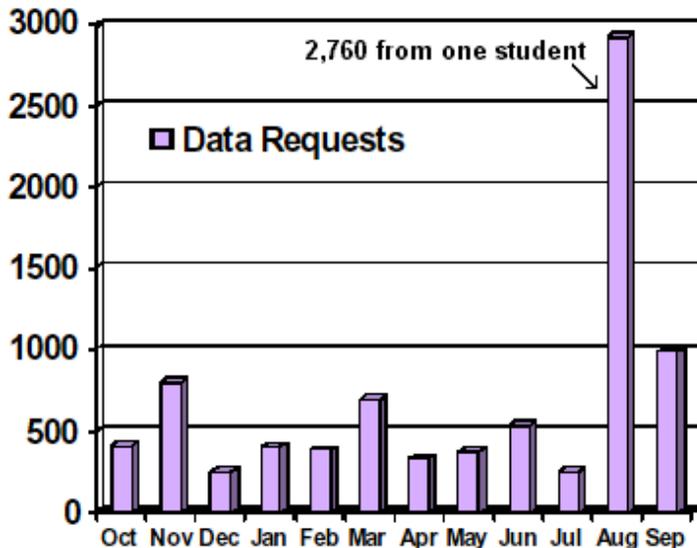
Probably the biggest presence, though, are the main observer tools: VSP, the finding chart plotter; VSX, the variable-star catalog; LCG, the light curve generator; and WebObs, the access portal for data submission. All of these tools were revised this year because of our MySQL relational database for the observations.

Observation Database

In FY2007, we collected 1.7 million observations. 873,411 of these were visual observations (an increase over last year, primarily due to the merged observations

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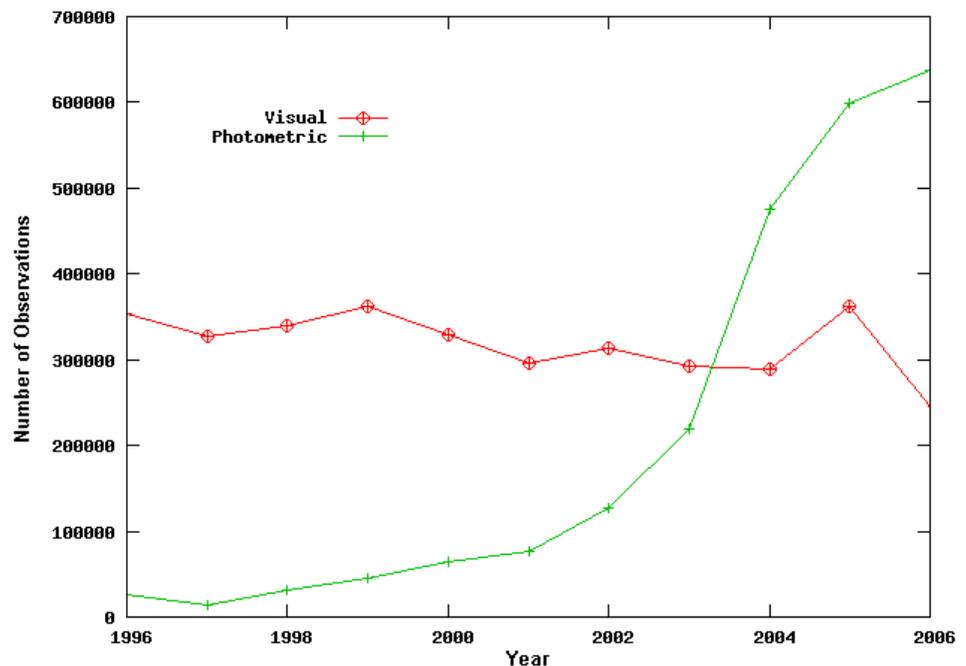
from A. W. Roberts, Albert Jones, and several Royal Astronomical Society of New Zealand members). 1,450 were PEP or photographic observations (replacing some that were already in the database with newer reductions). The remainder (837,310) were CCD observations. The CCD totals remain high, as we get many thousands of observations for any time-series campaign (SS Cyg is an example). The two charts on the following pages show the annual submission totals since 1911, and the total submitted observations ("Megasteps") since 1911. You can see that the trend is exponential, so that by 2011, we will be collecting 15 million observations per day!



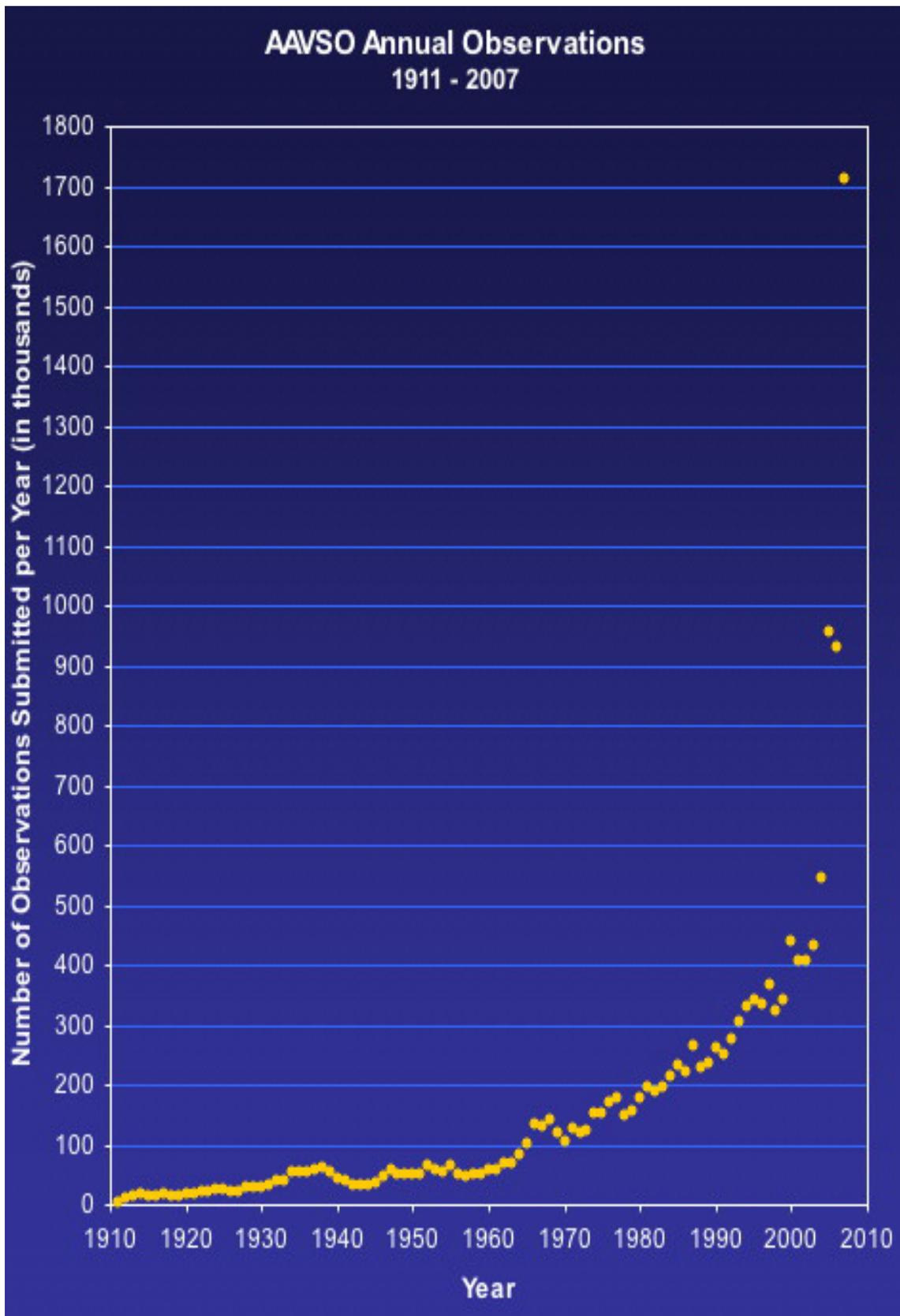
Requests for data from researchers during FY06-07

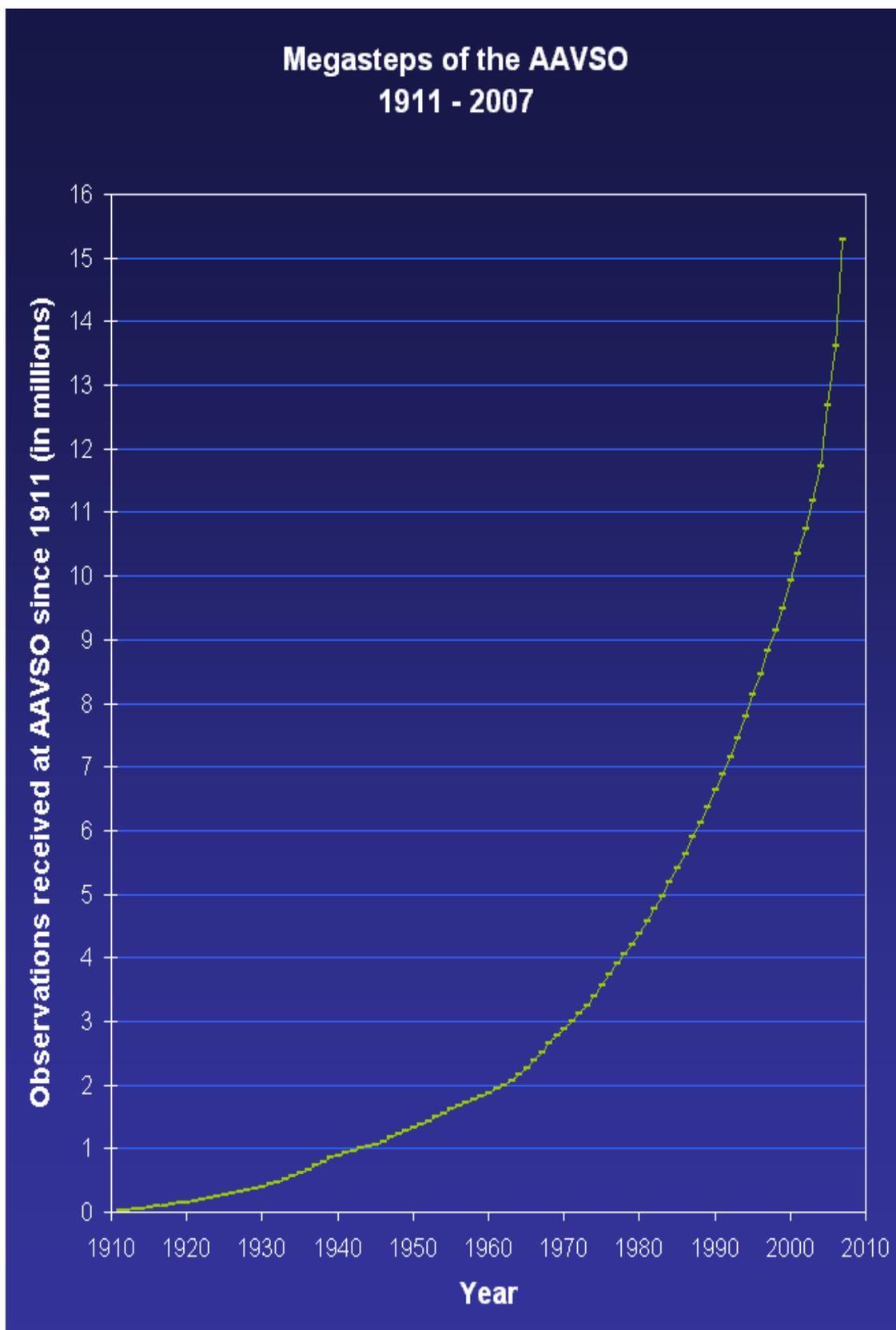
We had 5,700 data requests from a multitude of researchers during the year, along with 2,760 additional requests from a single student in August, who was trying to prove a variable-star theory and needed lots of data (figure at left)! The data request rate is pretty constant throughout the year, but has definitely continued its upward annual trend.

Visual observing continues to be very important. I have given many talks and articles on its usefulness. You can see on the chart of annual totals (below) that the submitted observation total stays pretty constant at about 400,000 observations per year.



Requests for data from researchers during FY06-07





International Cooperation

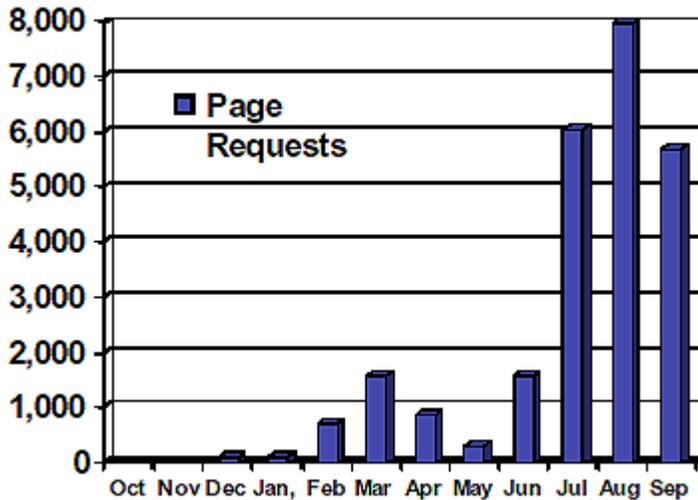
We acknowledge with appreciation the observations sent to the AAVSO by members of the following variable star associations, either individually or as a group, for inclusion in the AAVSO International Database for dissemination to the astronomical community worldwide:

- a. Agrupacion Astronomica de Sabadell (Spain)
- b. Asociacion Amigos de la Astronomia (Argentina)
- c. Asociacion de Variabilistas de Espagne (Spain)
- d. Association of Variable Star Observers “Pleione” (Russia)
- e. Association Française des Observateurs d’Étoiles Variables (AFOEV) (France)
- f. Astronomical Society of Southern Africa, Variable Star Section
- g. Astronomisk Selskab (Scandinavia)
- h. Astronomischer Jugendclub (Austria)
- i. Brazilian Observational Network REA
- j. British Astronomical Association, Variable Star Section
- k. Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany)
- l. Grupo Astronomico Silos (Spain)
- m. Israeli Astronomical Association, Variable Star Section
- n. Koninklijke Nederlandse Vereniging Voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands)
- o. Liga Ibero-Americana de Astronomia (South America)
- p. Madrid Astronomical Association M1 (Spain)
- q. Magyar Csillagászati Egyesület, Valtózcillag Szakcsoport (Hungary)
- r. Norwegian Astronomical Society, Variable Star Section
- s. Red de Observadores (Montevideo, Uruguay)
- t. Royal Astronomical Society of Canada
- u. Royal Astronomical Society of New Zealand, Variable Star Section
- v. Ukraine Astronomical Group, Variable Star Section
- w. Unione Astrofili Italiani (Italy)
- x. URSA Astronomical Association, Variable Star Section (Finland)
- y. Variable Star Observers League in Japan
- z. Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium)

Software

Much progress was made on the automated chart program, VSP. There are two aspects to VSP: the plotting package itself, along with the star catalogs used to find stars to display; and the comparison star database (VSD) that is used to identify comparison stars in each displayed field. Michael Koppelman, the main architect of VSP, worked with observers to improve the layout and the sky appearance of each field. We moved from using *NOMAD*, a star catalog that merges many catalogs into one, to the separate use of *Tycho2* and *UCAC*, two catalogs that are better representations of the sky. Vance Petriew, the architect of VSD (along with a large team

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Variable Star Plotter page requests during FY06-07

of volunteers), created a MySQL database of the comparison star data to be used by VSP. Two VSP releases were made: the initial release on June 30, which announced the availability of 4,000 AAVSO fields in VSP; and at the end of August, when we improved the sky appearance. We expect to make more releases soon to improve the comparison star photometry. The website requests for VSP showed the increased activity after the formal June release, along with a small peak in March when testing was being performed (see figure at left).

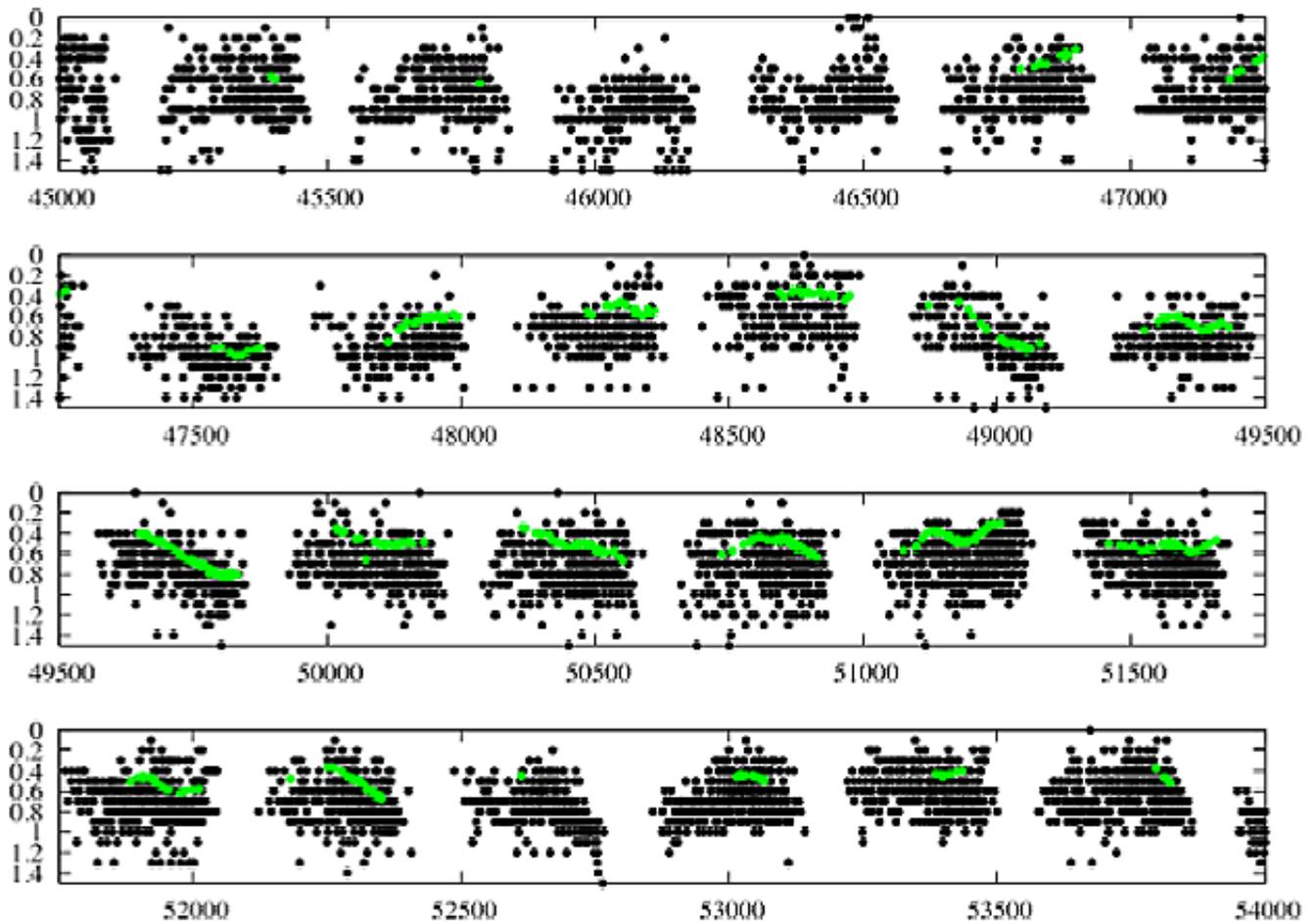
Sara Beck finished her JavaZAP program, an interactive software program to display observations and perform validation. This program is used by staff and was essential for validation with the new relational observation database. Kate Davis also wrote a Java program to help Elizabeth Waagen in her analysis of long period variable data, used for creating the *AAVSO Bulletin* of predicted maxima/minima of long period variables.

Kate Davis and Sara Beck took Java courses this year, improving our programming ability with this important web language. Kate also took a database course to learn about design concepts.

Observing News

The photoelectric photometry (PEP) community has been active for several decades, working on low amplitude red variables for John Percy, monitoring IM Peg for the Gravity Probe-B satellite, and T Tau stars and P Cygni. A few years ago, the AAVSO worked with Jerry Persha of Optec, Inc., and designed a near-infrared version of the popular SSP-3 photometer. The AAVSO purchased five of these new SSP-4 photometers and distributed them around the globe. They are being used primarily for observing long period red variables, continuing the monitoring that has been underway at the South African Astronomical Observatory for decades.

Sara Beck and Matt Templeton have taken Howard Landis' data reduction program, converted it from BASIC to FORTRAN, and added many bells and whistles to improve the quality of the photometry. About 36,000 photoelectric observations that had been submitted to the AAVSO over the years have been reprocessed and made available through the AAVSO International Database (AID). Kate has worked with Sara and Matt to provide an online input form, so that PEP observers can input their raw photometry,



AAVSO observations of α Ori (Betelgeuse) are shown, with PEP observations shown in green

have it processed by HQ, and inserted into the database automatically. An example of the PEP quality is shown in the figure above, where observations of α Ori (Betelgeuse) are shown, with the PEP observations shown in green.

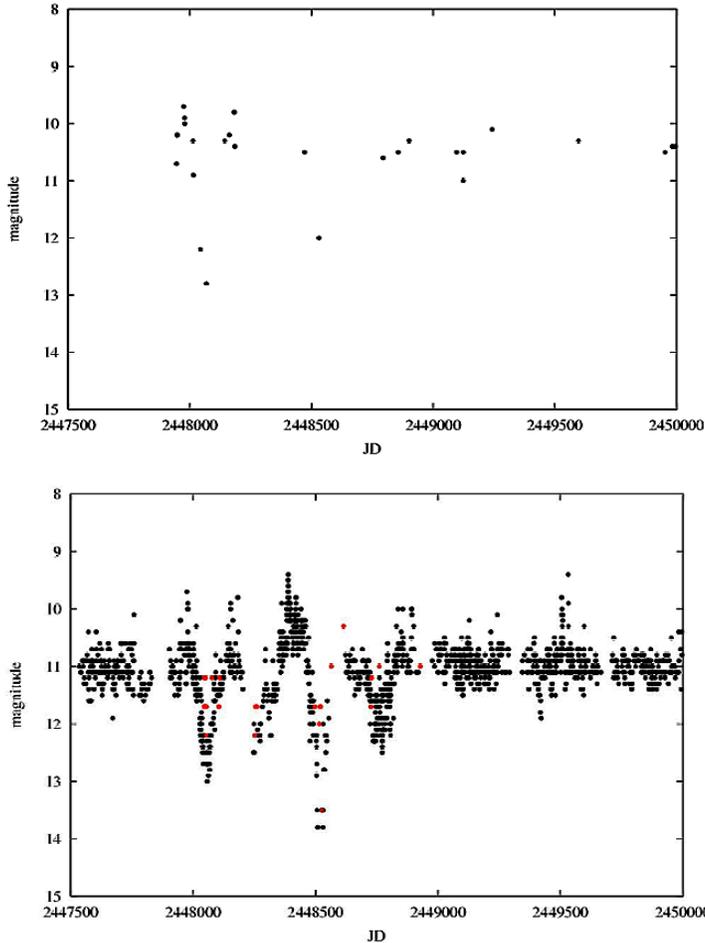
Several new campaigns will be announced for the PEP observers in the coming year, such as for ϵ Aurigae, the “Citizen Science” target for IYA2009.

Gamze Menali continues her editorship of *Eyepiece Views*, the premier newsletter devoted to visual variable star observing. Several issues were released during the year, with interesting stories from several long-time observers and suggestions of targets to observe.

Two large visual observation databases were merged into the AID this year. A. W. Roberts was a South African observer from 1891 to 1922. A team of Astronomical Society of Southern Africa observers, led by Brian Fraser and Tim Cooper (and his father Dennis), has diligently digitized Roberts’ observations over the past several years, and the fruits

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of their labor have resulted in the addition of 70,000 observations, primarily of ninety-nine southern variables, to the AID. Due in part to my visit to New Zealand in 2006, we received the entire RASNZ variable star database from Randal McIntosh. The RASNZ



Light Curves of RU Lup: (top) without Albert Jones' archival observations, and (bottom) with his observations added to the AAVSO International Database

database contains 1,588,806 observations on CD. Michael Saladyga of the AAVSO staff has merged into the AAVSO database about 1,056,174 of these observations, including 359,664 observations by Albert Jones. Some of these are duplicates, so that the total numbers will be lower than this, but we are finding many new observations that fill in the light curves of many southern variables. It is amazing how prolific some observers are! On the left is a comparison between the light curve of RU Lup without the observations of Albert, and the same light curve with Albert's observations. Without his contribution, we would know little about the history of this star!

We've added several new observing tools related to CCD observing: two signal/noise calculators to help you estimate your errors, and spreadsheets from Lew Cook to provide heliocentric Julian Date calculations and subtraction of contaminating stars from photometric apertures.

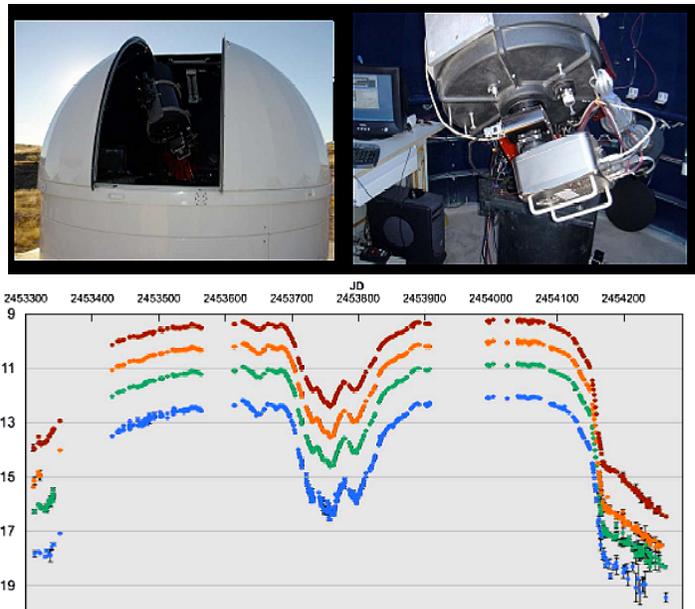
The results for the SS Cyg campaign that were run throughout the year, including a blazar campaign for Markus Boettcher. He needed early notification of the outbursts of a handful of these variable galactic nuclei so that he could trigger Veritas and XMM observations. Gordon Sarty wanted monitoring observations of several "high mass X-ray binaries" (HMXBs) so that he could correlate photometric changes with radial-velocity spectra being taken at the Dominion Astrophysical Observatory. Gordon is a good friend of the AAVSO, and offered to let members such as Tim Crawford, Michael Koppelman, and Richard Huziak observe at DAO as part of the project. We participated in a campaign to observe the pulsating prototype W Virginis; the first paper from that campaign has been published. In collaboration with Steve Howell, a campaign on the field surrounding NGC 6811 was run last year; analysis of the collected data continued this year, along with a poster paper given at the January 2007 AAS meeting. Christian Knigge requested U Gem and

SS Cyg observations for triggering Very Large Array radio observations of these targets. Steve Howell asked for AR UMa monitoring observations to coincide with Spitzer observations. Greg Laughlin asked us to monitor GJ436 for a possible exoplanet transit.

Robotic Telescope News

The AAVSO has been developing a robotic telescope capability for several years. We felt that access to telescopes in good observing sites or at geographically important spots was important to the core mission of the organization. We needed to be able to calibrate variable star fields in multiple wavelengths; monitor campaign targets and transients requested by researchers and the Central Bureau for Astronomical Telegrams; develop instrumentation and software, or test vendor-supplied instruments; and most importantly, give our membership access to high-quality equipment for their own research.

The first of these facilities was the Sonoita Research Observatory (SRO). John Gross, Walt Cooney, and Dirk Terrell approached me at a Society for Astronomical Sciences (SAS) meeting in 2005 to see if the AAVSO would be interested in working with them on a telescope owned by John in southern Arizona. Since that initial beginning, the AAVSO has used the telescope for 650 nights over nearly three years. We have performed numerous BVRI calibrations for LPV and transient objects; helped identify new novae and cataclysmic variables, and support several campaigns initiated by professional researchers. The system is remarkably efficient, with scheduling software that autonomously selects objects to be observed based on weather conditions. Its strong point is monitoring many objects over the course of many nights or years. The plot at right shows the power of a robotic telescope for long-term monitoring of light curves, showing three years of the variation of Z UMi. Several members are also using SRO, including Bill Dillon (AGNs, T Pyx), Jim Bedient (Miras), Michael Sallman (SRB star), and Michael Koppelman (time series of RR Lyr variables).



The Sonoita Research Observatory robotic telescope (top), and a light curve of Z UMi made up of long-term robotic observations from this station (bottom)

Dirk Terrell, Jerry Foote, and I are headed in early 2008 to New Zealand, where we have a cooperative arrangement with Mount John University Observatory (MJUO) to refurbish

their 24-inch Optical Craftsman telescope. Once finished, this refurbished telescope will have the same software as is running on SRO, and will also be available to the AAVSO and its membership. We are hoping to announce access in mid-2008. Mt. John is not a super site, but it has all of the infrastructure in place and gets about half of the available hours for observing.

Doc Kinne and Kate will be working on a web interface for the robotic telescopes. We hope that access will be easier in the near future than it is today. However, remember that this is a membership benefit—if you have a program that you want to run on any of these telescopes, contact the Director.

Other Projects

Olin J. Eggen (1919–1998) was a professional astronomer whose fifty-year career spanned four continents. He was an extremely careful photoelectric observer, compiling some 500,000 observations during his career. When he passed away in 1998, his card files were placed into storage at Cerro Tololo Inter-American Observatory (CTIO), Chile. While working on the W Vir project, I contacted CTIO to see if it would be possible to look at some of his cards, since only a fraction of his observations were ever published. The director of CTIO, Alistair Walker, has loaned the entire card collection to the AAVSO, and we received a Small Research Grant from the AAS to scan these cards. There are about 75,000 hand-written cards, and the majority of these were scanned during summer 2007 by David Coit. Once scanning is completed, we will place all scans on-line for volunteer digitization.



*Astronomer Olin J. Eggen
Courtesy Olin Eggen Photo Archive, AURA-O*

Staffing

Headquarters Staffing has remained constant for a number of years. We have had ten full-time employees, along with one part-time employee and two contractors. This year, we had a summer student join us, and also hired two new part-time employees. All permanent employees are described on our website at <http://www.aavso.org/aavso/about/staff.shtml>. I encourage you to read about these folk that support the members and observers; it is a really nice and efficient staff at HQ!

The summer student was our Margaret Mayall Assistant—David Coit. He is a junior at Worcester Polytechnic Institute (WPI). Some of his accomplishments for the summer included: uploading 300,000 CCD images from the U.S. Naval Observatory, Flagstaff Station (NOFS) and SRO; scanning 60,000 of Eggen's cards; entering thousands of BVRI

observations from the CCD multicolor program; and creating web pages for all old journal articles. We were extremely pleased to have such a capable young man join us, and hope that he will return and remain a friend of the AAVSO for years to come!

Richard (Doc) Kinne was hired part-time as information technology assistant to help Aaron. Doc works from home in New York and travels to HQ infrequently when his physical presence is necessary.

Linda Henden was hired part-time as a financial assistant to help Travis in paperwork and Quickbooks bookkeeping.

Aaron Price now works part-time as he continues his Ph.D. studies in Astronomy Education at Tufts University.

Publications

Thomas R. Williams and Michael Saladyga are working on the AAVSO centenary book. They hope to publish by 2011.

The Japanese and Turkish translations of the *AAVSO Manual for Visual Observing of Variable Stars* were released. *JAAVSO* volume 34, number 1 was printed. Many *eJAAVSO* articles were posted. We posted seventeen Alert Notices and fifty Special Notices. As mentioned above, Gamze edited six *Eyepiece Views*. Two "Variable Star of the Season" articles were published. We contributed sections for the *RASC Observer's Handbook*. Elizabeth completed long period variable maxima/minima *Bulletin Number 70*. The AAVSO released the annual eclipsing binary/RR Lyrae stars ephemerides as well as the monthly *Solar Bulletin*.

There were eight non-refereed staff publications (such as BAAS abstracts), in addition to the twenty-two refereed staff publications (Henden, Price, Templeton, Waagen; *PASP*, *AJ*, *JAAVSO*, etc.).

We noted that thirty-four papers in journals such as *Astronomy & Astrophysics*, *MNRAS*, *ApJ*, *AJ*, *PASP*, etc. were published using AAVSO data and assistance. The actual number is larger than this, as many posters and papers at AAS meetings use our light curves in their presentations.

Travel

FY2007 was another year of travel by staff to worldwide meetings to spread the word about the AAVSO and variable star observing. Arne went to Rochester in November to give a talk on V838 Mon for the Rochester Astronomy Club. Elizabeth Waagen went to

Texas to receive the 2006 Leslie C. Peltier Award from the Astronomical League. This was given in honor of her dedication to variable star research and her leadership in the AAVSO. January saw Aaron Price, Matt Templeton, Travis Searle, Rebecca Turner, and Arne traveling to the AAS meeting in Seattle to present a series of papers about the AAVSO and its value to the professional community. Kate Hutton volunteered to staff a booth at the Riverside Telescope Makers Conference (RTMC), held immediately after the SAS meeting, to advertise the AAVSO to a diverse crowd of amateurs. Tim Crawford continued this effort later in August by taking the traveling display to the ALCON conference in Oregon.

We also highlighted our new HQ building by participating in the First Annual Cambridge Science Festival, held during two weekends in April. We converted the "Annex" into a meeting hall for the first time, and gave talks on exoplanets and variable stars to the public. The Amateur Telescope Makers of Boston helped out by holding star parties after the lectures. The end of June found Arne and Rebecca traveling to Calgary to the joint AAVSO/AL/RASC meeting, along with many other AAVSO members. Gamze and Haldun Menali, along with Arne, participated in the 2nd Amateur Astronomy Symposium in Istanbul. We had a really great time with a group of very interested amateurs, even if Turkey is awfully hot in July! Finally, Matt Templeton represented the AAVSO at the cool stars conference held at East Tennessee State University in July.

Aaron Price organized the annual AAVSO one-day symposium in September, this one in collaboration with Tufts and devoted to Astronomy Education. He has also represented the AAVSO at LSST meetings and IYA2009 working groups.

Arne, Gary Walker, Elizabeth Waagen, and Michael Saladyga went to New Haven in March to participate in Dorrit Hoffleit's 100th birthday party. Elizabeth Waagen, Sara Beck, and Michael Saladyga were able to travel to New Haven in September for a memorial celebration in honor of Dorrit.

Looking Towards the Future

Coming up over the next fiscal year are a number of improvements in support of the observers. We will be adding precision photometry to the comparison star database. Some fields have had known errors and inconsistencies in their sequences, and this adjustment should make it easier for the observers to obtain reliable estimates. In addition, CCD and PEP photometry needs higher precision magnitudes, and often in several bandpasses, and the new photometry will enable precision measurements for many more fields. The standardized input formats will be released, so that we only have to support fewer software formats and ensure all information that might be important to the researcher is included. Several new campaigns are already in queue, and some fun projects will be announced. We hope to have the Mt. John 24-inch telescope up and running and available to the membership. Meetings in the UK and for the 100th

celebration of Maria Mitchell Observatory will be held. It will be another great year for the AAVSO!

Acknowledgements

This is not a one-person show, or even a dozen-person show. Everyone who has contributed data, made a monetary donation, volunteered their time and energy, has made this organization the success that it is. We “stand on the shoulders of giants”—that came before us and built the foundation of the organization. Clint Ford contributed enormously to the organization, which is why his name bears such prominence everywhere. Previous Directors organized the association and had the vision for its future. The Council guides the AAVSO, volunteering their efforts to make the organization financially solvent and relevant. Our committee chairs handle specific areas of interest, working with enthusiastic observers and making reports to the membership and Council. Others work quietly behind the scene, acting as scientific advisors to programs, writing important software, or participating in important projects such as the Chart Team. Finally, many institutions and government agencies see our research important enough to provide financial support. Without all of these people, the AAVSO would not exist.

Observer Totals

Our special appreciation and thanks go to our enthusiastic and dedicated observers, who are the heart of the AAVSO and whose ongoing efforts make this association vital to variable star research. Listed on the following pages are the observation totals that we have received at Headquarters.

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Table 1. AAVSO Observer Totals 2006–2007 by Country

Country	No. Observers	No. Obs.	Country	No. Observers	No. Obs.	Country	No. Observers	No. Obs.
ARGENTINA	24	410	GREECE	10	7421	REPUBLIC OF KOREA	1	3
AUSTRALIA	30	213694	HUNGARY	72	22575	ROMANIA	8	7669
AUSTRIA	3	600	INDIA	3	82	RUSSIA	9	3984
BELARUS	2	5	IRAN	2	2	SINGAPORE	1	1
BELGIUM	22	88220	IRELAND	4	140	SLOVAKIA	1	384
BERMUDA	1	30	ISRAEL	2	6	SLOVENIA	1	1553
BRAZIL	13	2784	ITALY	30	13228	SOUTH AFRICA	12	385127
CANADA	34	62967	JAPAN	4	1528	SPAIN	34	11865
CHINA	1	1	MALTA	2	34	SWEDEN	1	637
COSTA RICA	1	14	MEXICO	1	10	SWITZERLAND	6	1068
CROATIA	4	2174	NETHERLANDS	12	10686	TURKEY	6	97
CZECH REPUBLIC	2	70	NEW ZEALAND	5	404612	UKRAINE	4	700
DENMARK	3	63	NORTH CYPRUS	1	93	URUGUAY	2	10
ENGLAND	33	54251	NORWAY	7	1198	USA	275	307310
FINLAND	9	15486	PERU	1	10			
FRANCE	25	36383	PHILIPPINES	2	77	TOTAL	784	1712567
FRENCH POLYNESIA	1	3	POLAND	19	28905			
GERMANY	36	16237	PORTUGAL	2	8160			

Table 2. AAVSO Observer Totals 2006–2007 USA by State or Territory

State	No. Observers	No. Obs.	State	No. Observers	No. Obs.	State	No. Observers	No. Obs.
ALABAMA (AL)	2	12	MICHIGAN (MI)	5	1301	PUERTO RICO (PR)	1	19
ARIZONA (AZ)	9	3817	MINNESOTA (MN)	8	6005	RHODE ISLAND (RI)	4	2244
CALIFORNIA (CA)	29	10286	MISSISSIPPI (MS)	1	46	SOUTH CAROLINA (SC)	4	60
COLORADO (CO)	5	28064	MISSOURI (MO)	3	1226	SOUTH DAKOTA (SD)	1	6
CONNECTICUT (CT)	7	1069	MONTANA (MT)	1	251	TENNESSEE (TN)	5	1384
FLORIDA (FL)	7	53371	NEBRASKA (NE)	2	128	TEXAS (TX)	20	5163
GEORGIA (GA)	3	1833	NEVADA (NV)	3	85	UTAH (UT)	3	15080
HAWAII (HI)	2	2161	NEW HAMPSHIRE (NH)	3	6923	VERMONT (VT)	1	3
ILLINOIS (IL)	14	38378	NEW JERSEY (NJ)	1	7	VIRGINIA (VA)	6	765
INDIANA (IN)	9	10500	NEW MEXICO (NM)	8	56076	WASHINGTON (WA)	9	232
KANSAS (KS)	6	4277	NEW YORK (NY)	12	4872	WEST VIRGINIA (WV)	2	770
KENTUCKY (KY)	4	23	NORTH CAROLINA (NC)	5	469	WISCONSIN (WI)	5	6344
LOUISIANA (LA)	2	2663	OHIO (OH)	14	1090			
MAINE (ME)	2	100	OKLAHOMA (OK)	5	241	TOTAL	275	307310
MARYLAND (MD)	11	2501	OREGON (OR)	3	24153			
MASSACHUSETTS (MA)	19	11504	PENNSYLVANIA (PA)	9	1808			

Table 3. AAVSO Observers, 2006–2007.

Code	Org.	Name	No. Obs.	Code	Org.	Name	No. Obs.
AFO		A. Abascal, Spain	2	ABG		B. Andresen, Norway	30
AAP	27	P. Abbott, Canada	3105	KOC	03	K. Antal, Hungary	820
AAN	02	A. Abe, Germany	167	AKO		K. Apostolidis, Greece	4
AIV	09	I. Abramov, Ukraine	593	AJN		J. Appleyard, Canada	26
ARV		R. Adamson, CA	10	AWX		W. Arango, Argentina	3
ASA		S. Aguirre, Mexico	10	AWY	13	W. Araujo, Brazil	275
AJT	13	J. Agustoni, Brazil	1	AAT	15	A. Ardanuy, Spain	2
AB		W. Albecht, WI	6208	AFQ		F. Armario, Spain	106
AWL		W. Alexander, VA	28	AAM		A. Arminski, Poland	8146
ACO	20	C. Allen, Sweden	637	ADN		D. Arnautovic, Australia	5
AJC		J. Almeida, Brazil	79	ARJ		J. Arnold, TX	38
AJV	15	J. Alonso, Spain	110	AAU		A. Aslanturk, Turkey	7
AMH		M. Amato, CT	32	ATO	08	T. Aslesen, Norway	72
AAQ	03	A. Ambrus, Hungary	51	ATI		T. Asztalos, Hungary	2996
AAX	13	A. Amorim, Brazil	810	ADI	02	D. Augart, Germany	683

Table 3. AAVSO Observers, 2006–2007, cont.

<i>Code</i>	<i>Org.</i>	<i>Name</i>	<i>No.</i> <i>Obs.</i>	<i>Code</i>	<i>Org.</i>	<i>Name</i>	<i>No.</i> <i>Obs.</i>
AAV		A. Avtanski, CA	9	BOA	01	A. Bruno, France	826
ARX		R. Axelsen, Australia	92	BHU		R. Buchheim, CA	432
PBC		P. Bacci, Italy	3	BGO		R. Bunge, MD	1
BGL	03	G. Baglyas, Hungary	5	BXD		A. Burda, Romania	6
BIY		D. Bailey, IL	3	BXE		E. Burichel, Brazil	24
BWY		W. Bailey, NJ	7	BIW		N. Butterworth, Australia	4958
BIE	05	A. Baillien, Belgium	191	CCB		C. Calia, CT	408
BPH	02	S. Bakan, Germany	2	CCZ		C. Calis, Turkey	18
BFX		R. Baker, OH	96	CMN		R. Cameron, Australia	121
BWW		W. Bakewell, CA	5	C		L. Campbell, MA	55
BYX	03	L. Balaton, Hungary	8	CPN	27	P. Campbell, Canada	93
BCD		R. Ball, England	15	CMP		R. Campbell, FL	1838
BQH	03	E. Balogh, Hungary	3	CN		A. Cannon, MA	11
BIV	03	I. Balogh, Hungary	183	CEM	15	E. Capella, Spain	64
BVN	18	M. Banfi, Italy	2425	CQP		A. Capetillo Blanco, Spain	25
BGZ		G. Banialis, IL	70	CXN		J. Carlson, MA	1613
BHI		J. Banister, TX	37	CZO		R. Carrizo, Argentina	3
BSR	18	S. Baroni, Italy	189	CVJ		J. Carvajal Martinez, Spain	24
BVT		T. Bartlett, TX	107	CRI	15	R. Casas, Spain	24
BBA		B. Beaman, IL	1559	CLQ		L. Cason, SC	5
BWX	27	A. Beaton, Canada	383	CKN		K. Castle, AZ	22
BDY	09	D. Bechutskiy, Ukraine	2	CWO		W. Castro, OH	45
BSZ		S. Beckwith, MA	129	CNT		D. Chantiles, CA	462
BJS		J. Bedient, HI	317	CGF		G. Chaple Jr., MA	3842
BCP	20	C. Beech, England	37	CKJ		J. Cheng, PA	19
BNY		R. Benge Jr., TX	1	CGU		G. Chew, Singapore	1
BTY		T. Benner, PA	419	CCY		C. Chiselbrook, GA	1625
BQO		L. Bentolila, Argentina	5	CWY		W. Chisik, Argentina	3
BEB	27	R. Berg, IN	9	COQ		Cincinnati Observatory Center, OH	330
RFC		F. Bergali, Spain	1329	CCV		C. Clarasso, Spain	93
BQX		M. Betlej, Poland	7	CMB		M. Clark, New Zealand	28
BPU		A. Bhuptani, England	39	CLK	29	W. Clark, MO	9
BVG	18	G. Bianciardi, Italy	14	CPY		P. Clayton, England	8
BIC	01	L. Bichon, France	2150	CPS	05	P. Cloesen, Belgium	96
BMM	05	M. Biesmans, Belgium	520	CPE	06	P. Cloas, Spain	37
BCO		C. Birza, Romania	41	CKH	05	H. Coeckelberghs, Belgium	10
BXN	01	M. Bisson, France	223	CAY		A. Coelho, Brazil	1
BXT	08	T. Bjerkgaard, Norway	67	CCT	13	C. Colesanti, Brazil	1207
BXU		J. Bjoerklund, Denmark	1	CDK		D. Collins, NC	412
BKL		J. Blackwell, NH	559	COL		P. Collins, AZ	4
BLD	10	D. Blane, South Africa	208	CME	18	E. Colombo, Italy	323
BWJ		J. Bohdanowicz, Canada	5	CMG	04	G. Comello, Netherlands	5781
BOI		B. Bois, Canada	19	CKL		A. Cook, OH	138
BQG		G. Bokowy, IL	88	CXA		A. Cook, CA	3
BVS		S. Bolzoni, Italy	7	COO		L. Cook, CA	100
BRJ		J. Bortle, NY	3793	CK		S. Cook, NM	28
BMU	04	R. Bouma, Netherlands	167	CWT		W. Cooney Jr., LA	2520
BDG	20	D. Boyd, England	14858	COM	10	T. Cooper, South Africa	725
BFI		F. Boyer, OH	8	CDV		D. Cornell, WA	5
BMK		M. Bradbury, IN	426	CLZ	01	L. Corp, France	309
BPX		P. Bradley, England	47	CAI		A. Correia, Portugal	4033
BXS		S. Brady, NH	6283	CIO		I. Costache, Romania	10
BDT		D. Branchett, FL	300	COV		V. Coulehan, NY	130
BNW	02	W. Braune, Germany	99	CWD		D. Cowall, MD	11
BQC	01	J. Breard, France	5	CXO		J. Cox, England	28
BXI		D. Breit, CA	8	CR		T. Cragg, Australia	10782
BZG		G. Brellier, France	50	CFY		J. Craig, MA	98
BTB		T. Bretl, MN	349	CTX	27	T. Crawford, OR	15481
BHA	02	H. Bretschneider, Germany	968	CMY		M. Crook, England	25
BQE		E. Briggs, Canada	1	CRR		R. Crumrine, NY	45
BOS	05	E. Broens, Belgium	563	CIZ		I. Cruz, OH	93
BJQ	27	J. Brooks, CA	12	CBZ	03	B. Csak, Hungary	39
BWU		D. Brooks, MO	214	CTI	03	T. Csorgei, Hungary	260
BXV	15	X. Bros Caton, Spain	166	CSM		M. Csukas, Romania	1297
BQS	15	J. Bros, Spain	11	CKB		B. Cudnik, TX	1199

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Table 3. AAVSO Observers, 2006–2007, cont.

<i>Code</i>	<i>Org.</i>	<i>Name</i>	<i>No. Obs.</i>	<i>Code</i>	<i>Org.</i>	<i>Name</i>	<i>No. Obs.</i>
CUU		J. Curto Amigo, Spain	267	FTH		T. Fox, TX	5
DS		J. Da Silva, Brazil	3	FBN	10	B. Fraser, South Africa	82
DAM	06	A. Darriba Martinez, Spain	16	FML		M. Fridlund, Netherlands	13
DMP		M. Dasgupta, India	7	FAA	18	A. Frosina, Italy	2
DVE		V. Davis, AL	9	FMG		G. Fugman, NE	108
DJS	20	J. Day, England	153	GBZ	21	O. Gabzo, Israel	5
DPP		P. De Ponthiere, Belgium	14978	GHT	27	G. Gaherty, Canada	141
DSP		P. De Santis, NV	1	GMO		M. Gainer, PA	33
SWQ	13	W. De Souza, Brazil	26	GDM	03	M. Galea De Giovanni, Malta	1
DSJ	13	J. De Souza Aguiar, Brazil	11	GTN		T. Gandet, AZ	3
DFR	27	F. Dempsey, Canada	27	GAA		P. Garey, IL	22
DDE		D. Denisenko, Russia	120	GJP		J. Garlitz, OR	229
DAT		A. Derdzikowski, Poland	186	GPG		P. Garossino, TX	10
DAA	03	A. Derekas, Hungary	2	GKI		K. Geary, Ireland	30
DNO		O. Deren, Poland	483	GCP		C. Gerber, Germany	323
DSI		G. Di Scala, Australia	32421	GAO		A. Giambersio, Italy	37
DMQ		M. Diamond, CO	5	GGU	04	G. Gilein, Netherlands	405
DDD		D. Dickinson, AZ	1	GLJ		J. Glasheen, Canada	1
DPA	05	A. Diepvens, Belgium	537	GMV		M. Glennon, Ireland	28
DRG		R. Diethelm, Switzerland	9	GZN	06	A. Glez-Herrera, Spain	75
DJU		J. Dildine, CA	1	GLG		G. Gliba, MD	17
DLA		A. Dill, KS	171	GFT		F. Gobet, France	10463
DIL		W. Dillon, TX	396	GAW		A. Godfrey, England	691
DRL		S. Dirocco, OH	22	GFH		B. Goff, CA	5356
GDB	03	G. Domeny, Hungary	8	GPX	14	W. Goltz, Australia	27324
DLX	03	L. Dorogi, Hungary	4	GOT	06	T. Gomez, Spain	4583
DDB		D. Douglass, PA	5	GAQ		A. Goossen, NY	7
DXA		A. Douvris, Greece	4	GGZ	03	Z. Gorgei, Hungary	566
DDJ		D. Dowhos, Canada	6	GLM		L. Gorski, IL	18
DPV		P. Dubovsky, Slovakia	384	GGC	18	G. Gotta, Italy	1961
DFS	05	S. Dufoer, Belgium	2	GKA		K. Graham, IL	12247
DAB		A. Dukes Jr., SC	8	GPE		Grainger Observatory (J. Blackwell), NH	81
DMO	01	M. Dumont, France	1089	GRL	08	B. Granslo, Norway	234
CLW01		D. Durig, TN	1051	GMZ	18	M. Graziani, Italy	34
DRZ		R. Durkee, MN	101	GTZ		T. Grzybowski, NM	265
DEQ		E. Dutton, CO	3	GCO		C. Gualdoni, Italy	3841
DKS		S. Dvorak, FL	49346	GXB		G. Gualdoni, Argentina	3
DGP		G. Dyck, MA	1827	GUX		L. Guevara, Argentina	3
DDI		D. Dyer, KS	190	GPR		P. Guilbault, RI	3
EJF		J. Edmonds, MA	11	GUN	01	J. Gunther, France	1142
EMA		M. Eichenberger, Switzerland	44	GYA		L. Gyarmati, Hungary	28
EER	25	E. Eker, Turkey	2	HCS	03	C. Hadhazi, Hungary	2182
EJI		J. Elliott, NC	1	HTY		T. Hager, CT	59
EM		G. Emerson, NM	20	HKB		B. Hakes, IL	297
EPE	01	P. Enskonatus, Germany	179	HP		W. Hampton, CT	24
ERB		R. Eramia, WA	61	HDX		D. Hands, NC	42
EJO	03	J. Erdei, Hungary	95	HBB		B. Harris, FL	455
LTE		D. Evans, England	925	HMQ		M. Harris, GA	204
FTB		T. Fabjan, Slovenia	1553	HAV		R. Harvan, MD	1021
FEO	03	E. Farkas, Hungary	212	HZA		A. Hasanzadeh, Iran	1
FBH		B. Fehling, Spain	4	HJK		J. Hauk, SD	6
FAJ	03	A. Fejes, Hungary	56	HHU	05	H. Hautecler, Belgium	781
FBA		B. Ferguson, OK	2	HKY	27	K. Hay, Canada	64
FOM	15	M. Fernandez Ocana, Spain	111	HAB		R. Hays Jr., IL	902
FRF	03	R. Fidrich, Hungary	39	HCA		C. Hedgepeth, VA	1
FWH		W. Finlay, Canada	8	HKN		K. Hedrick, WV	77
FGU	02	G. Flechsig, Germany	28	HRZ		R. Hegenbarth, Germany	1
FLY		J. Flores, Argentina	3	HMC		M. Hencheck, WI	9
FMU	15	M. Flores, Spain	16	HQA		A. Henden, MA	6
FDA	03	A. Fodor, Hungary	59	HGC	14	G. Herdman, New Zealand	52685
FBZ	03	B. Fodor, Hungary	14	HXE		E. Herrera, Argentina	3
FSE	18	S. Foglia, Italy	5	HMV		M. Hessom, CA	2
FFC	03	F. Foldesi, Hungary	112	HDJ		D. Higgins, Australia	124
FMR		M. Fonovich, Croatia	2105	HIM		W. Hill, MA	49
FXJ		J. Fox, MN	102	HEG		E. Hintz, UT	4

Table 3. AAVSO Observers, 2006–2007, cont.

Code	Org.	Name	No. Obs.	Code	Org.	Name	No. Obs.
HZR	02	R. Hinzpeter, Germany	30	KRV		R. Koff, CO	26624
HIR		Y. Hirasawa, Japan	358	KHL		M. Kohl, Switzerland	578
HJS		J. Hissong, OH	4	KHJ	27	H. Koller, Canada	5
HJX	13	J. Hodar Munoz, Brazil	10	KRS		R. Kolman, IL	2307
HWD		W. Hodgson, Australia	15	KMA		M. Komorous, Canada	2778
HEK		E. Hoeg, Denmark	20	KMP		M. Koppelman, MN	2998
HDF		D. Hohman, NY	1	KSG		G. Koronis, Greece	25
HSQ		S. Holland, NC	3	KOS		A. Kosa-Kiss, Romania	4910
HOO	04	G. Hoogeveen, Netherlands	32	KLX		L. Koscianski, MD	97
HJZ		J. Horne, CA	24	KMS		M. Kossa, France	1
HJA		J. Hudson, CA	67	KAF	03	A. Kovacs, Hungary	310
HOX	14	O. Hull, New Zealand	43059	KVS	03	A. Kovacs, Hungary	95
HDU		D. Hurdis, RI	836	KVI	03	I. Kovacs, Hungary	372
HUR	20	G. Hurst, England	2395	KFK		F. Kafka, TX	41
HSU		S. Hutchins, CO	2	KTC		T. Krajci, NM	10064
HTN		K. Hutton, CA	2599	KWO	02	W. Kriebel, Germany	2695
HUZ	27	R. Huziak, Canada	5811	KIS	02	G. Krisch, Germany	581
HHT	17	H. Hyvonen, Finland	9	KTZ		T. Krzyt, Poland	1561
ILE	03	E. Illes, Hungary	838	KUC	01	S. Kuchto, France	1332
IPA	12	P. Ingrassia, Argentina	20	KPB		P. Kuebler, OH	5
IVM	16	V. Ivanov, Russia	3057	KZQ	03	Z. Kuli, Hungary	13
JMA		M. Jacquesson, France	441	KMI		M. Kuzmin, Russia	125
JTP	01	P. Jacquet, France	10	KSQ		S. Kuznetsov, Russia	221
JAT	03	T. Jakabfi, Hungary	31	LCR	15	C. Labordena, Spain	462
JM		R. James, NM	45555	LHS		H. Lacombe, Canada	1
JZO	03	Z. Jankovics, Hungary	19	LSA		S. Lahtinen, Finland	7
JDG		D. Janky, WA	9	LDJ	27	D. Lane, Canada	1479
JSI	20	S. Jenner, England	4	LTO	02	T. Lange, Germany	53
JKK	08	K. Jensen, Norway	91	LMF	13	M. Lara, Brazil	332
JLR		R. Jepeal, CT	536	LTM		T. Laskowski, IN	20
JOG		G. Johnson, MD	110	LED		E. Lawrence, KY	1
JON	05	K. Jonckheere, Belgium	3	LZT		T. Lazuka, IL	1143
JA	14	A. Jones, New Zealand	277100	LEB	01	R. Lebert, France	208
JCN	20	C. Jones, England	730	LFC	01	F. Lecoyer, Belgium	1
JJI		J. Jones, OR	8443	LMT		M. Legutko, Poland	598
JKL		K. Jones, Australia	8	LDA		D. Lehman, MD	12
JRC	15	R. Josa, Spain	35	LDI	02	D. Lehmann, Germany	3
JAX		A. Junkkari, Finland	7	LNZ		G. Lenz, LA	143
KSB		S. Kalkan, Turkey	2	LJL		J. Leonard, IL	10
KB		W. Kaminski, NM	8	LNL		N. Lerner, CA	4
KAM	02	A. Kammerer, Germany	37	LEV		A. Leveque, CA	149
KMO		M. Kardasis, Greece	25	LVY	27	D. Levy, AZ	1
KSF		S. Karge, Germany	434	LMI		M. Lierl, KY	6
KAD	03	A. Karpati, Hungary	52	LAI	27	A. Ling, Canada	934
KLU		L. Karpiesiuk, Poland	72	LMK		M. Linnolt, HI	1844
KKI		K. Kasai, Switzerland	302	LLZ	03	L. Liziczai, Hungary	244
KEI		E. Kato, Australia	6	LOX		S. Logioco, Argentina	3
KPI	17	P. Kehusmaa, Finland	503	LRD		D. Loring, UT	284
KCE		C. Kelly, TN	1	LDS	20	D. Loughney, England	660
KZX	03	Z. Kereszty, Hungary	1	LFZ		F. Lucidi, Italy	275
KSH	14	S. Kerr, Australia	283	LBU	03	D. Lukacs, Hungary	1
KSZ	03	S. Keszthelyi, Hungary	387	LMJ	17	M. Luostarinen, Finland	1827
KRB		R. King, MN	766	MDW		W. MacDonald II, Canada	4471
KQR		R. Kinne, NY	22	MTX		T. MacKenzie, NY	70
KSJ	27	S. Kinsella, Canada	18	MAL		R. MacLaren, WI	8
KIR		P. Kirby, AZ	549	MLI		L. Maisler, NY	81
KBR		B. Kirshner, CA	20	MII	03	L. Majzik, Hungary	47
KKA	03	K. Kis, Hungary	7	MUV	03	A. Makay, Hungary	23
KIL	03	L. Kiss, Australia	1301	MEX		P. Mancini, Argentina	3
KCO	03	S. Kiss, Hungary	1	MBG	03	B. Mandek, Hungary	2
KPC		P. Klages, England	6	MOF		O. Maraev, Russia	432
KGE	08	G. Klingenberg, Norway	172	MXI	18	A. Marchini, Italy	1209
KWL		W. Kloehr, Germany	15	MKW		A. Markiewicz, Poland	1443
KGT		G. Knight, ME	42	MXS	03	S. Marosi, Hungary	78
KSP		S. Knight, ME	58	MMN	18	M. Martignoni, Italy	36

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Table 3. AAVSO Observers, 2006–2007, cont.

<i>Code</i>	<i>Org.</i>	<i>Name</i>	<i>No. Obs.</i>	<i>Code</i>	<i>Org.</i>	<i>Name</i>	<i>No. Obs.</i>
MYC		C. Martin, NE	20	NMI		M. Nicholas, AZ	949
MMG		M. Martinengo, Italy	6	NDC		D. Nicholls, Australia	1
MRX	02	H. Marx, Germany	1022	NMR		M. Nicholson, England	6421
MN		H. Mason, NV	76	NFD	04	F. Nieuwenhout, Netherlands	1692
MQI		M. Matesic, Croatia	41	NVM		M. Niveyro, Argentina	3
MTH		H. Matsuyama, Australia	9562	NCH		C. Norris, TX	177
MXV		A. Matvienko, Russia	3	NKL		K. Nuber, Germany	243
MPR	23	P. Maurer, Germany	470	NHK	17	H. Nylander, Finland	27
MGE		G. Mavrofridis, Greece	4571	OB		B. O'Bannion, TX	1
MAZ		M. Mazurek, AZ	50	OCN		S. O'Connor, Bermuda	30
MBE		B. McCandless, MD	274	ODI		D. O'Driscoll, Australia	5
MUE		R. McDaniel, TX	647	ONJ		J. O'Neill, Ireland	81
MBT		T. McDonagh, MA	227	OSN		S. Oatney, KS	1285
MDP	27	P. McDonald, Canada	1096	OES		D. Oesper, WI	33
MGH	20	H. McGee, England	44	OYE		Y. Ogmen, North Cyprus	93
MED		K. Medway, England	1492	OAR	17	A. Oksanen, Finland	13082
MIQ	20	I. Megson, England	680	OXV		J. Olivo, Argentina	3
MEH		C. Meinhardt, WA	8	OSC		S. Orlando, NY	1
MHI	01	H. Menali, MA	3	OPR		P. Ossowski, Poland	14
MQZ		M. Mendez Majuelos, Spain	136	OSE	12	S. Otero, Argentina	12
MDJ	12	D. Mendicini, Argentina	58	OJJ		J. Ott, CO	1430
MQG		M. Menegotto, Argentina	235	OJS		J. Ott, KY	6
MBB	14	B. Menzies, New Zealand	31740	OCR	05	C. Otten, Belgium	1024
MZK		K. Menzies, MA	266	OB	10	D. Overbeek, South Africa	6189
MEZ	03	C. Mezosi, Hungary	38	PPK	17	P. Paakkonen, Finland	12
MTK		T. Michalik, VA	378	PUC		C. Panichi, Argentina	5
MXT		C. Middleton, South Africa	172727	PBC		B. Paolo, Italy	3
MOK	08	O. Midtskogen, Norway	532	PCC		R. Papini, Italy	1770
MXM		M. Mifsud, Malta	33	PPS	03	S. Papp, Hungary	5927
MXL		R. Miles, England	472	PDV		D. Parker, England	5
MTU		T. Miller, NV	8	PTQ		T. Parson, MN	1437
MIP		R. Miro, MD	11	PJJ	15	J. Pastor, Spain	39
MZS	03	A. Mizser, Hungary	433	PKV		K. Paxson, TX	2
MCE		E. Mochizuki, Japan	23	PN		A. Pearlmutter, MA	2
MRV		R. Modic, OH	77	PEI	11	E. Pedersen, Denmark	42
MHH		J. Moehlmann, PA	168	PEG	01	C. Peguet, France	1216
MII	03	I. Mohacsi, Hungary	47	PWD		W. Pellerin, TX	49
MPV	03	P. Molnar, Hungary	1056	PIV		I. Peretto, Italy	25
MLF	10	L. Monard, South Africa	153919	PWM	05	W. Pessemier, Belgium	480
MYX		L. Mongabure, Argentina	2	PVA	27	V. Petriew, Canada	32991
MHC	12	C. Montalvo, Peru	10	PGE	02	G. Petter, Germany	29
MXO		C. Montes, Philippines	4	PRP		R. Pickard, Australia	6
MYK		K. Moore, SC	25	PXR		R. Pickard, England	1930
MEV	01	E. Morelle, France	2771	PBN		B. Pickett, Australia	1
MFS		S. Moretti, Italy	6	PKI		O. Piechowski, KY	10
MOI	01	E. Morillon, France	4065	PLQ	01	L. Pinatelle, France	358
MOW		W. Morrison, Canada	5291	PGU	18	G. Pinazzi, Italy	88
MDA		A. Morton, WA	1	PHT		H. Pinkston, VA	21
MXK	03	A. Morvai, Hungary	12	PMZ	15	M. Pinto, Spain	18
MVZ	03	J. Morvai, Hungary	9	PFB		F. Pires, Brazil	5
MPS		P. Mozal, Canada	96	PIJ	03	J. Piriti, Hungary	342
MMH		M. Muciek, Poland	10	PPL		P. Plante, OH	242
MKH		S. Mukherjee, India	5	PPZ		P. Plaszczyk, Poland	16
MDU		D. Mulinski, Poland	309	PDL	03	D. Plesa, Hungary	75
MMU		M. Munkacsy, RI	468	PAW		A. Plummer, Australia	9195
MUY	05	E. Muylaert, Belgium	12311	AST	12	R. Podesta, Argentina	22
NIS	03	I. Nagy, Hungary	7	PMO	10	M. Poll, South Africa	85
NZO	03	Z. Nagy, Hungary	31	PRV		R. Potter, MI	27
NDQ	01	D. Naillon, France	902	PWR		R. Powaski, OH	16
NDA		D. Nance, AL	3	POX		M. Poxon, England	882
NIL		I. Nasiroglu, Turkey	50	PYG		G. Poyner, England	11711
NLX	14	P. Nelson, Australia	5083	PCJ		C. Predom, CT	9
NAL	03	A. Nemes, Hungary	68	PDD		D. Presley, GA	4
NBB		B. Neuman, VT	3	PAH		A. Price, MA	1
NVT		V. Nevski, Belarus	4	POB		R. Price, England	17

Table 3. AAVSO Observers, 2006–2007, cont.

Code	Org.	Name	No. Obs.	Code	Org.	Name	No. Obs.
PUJ	06	F. Pujol-Clapes, Spain	689	SJOE		J. Schlimmer, Germany	8
PHG		H. Purucker, Germany	328	SPK	01	P. Schmeer, Germany	52
PSY		S. Pyatih, Belarus	1	SHV	03	A. Schmidt, Hungary	54
QPR		P. Queitsch, IN	3	SQE		R. Schoenstene, IL	26
QW	02	W. Quester, Germany	9	SAND	02	A. Schumann, Germany	3
QNK	20	N. Quinn, England	729	SCZ	01	E. Schweitzer, France	33
RIO	27	I. Radine, Canada	3	SCE		C. Scovil, CT	1
RKE		K. Raetz, Germany	523	SXV		S. Seva, Argentina	5
RBK		B. Ramotowski, NM	5	SDF		D. Shackelford, CA	237
RTM		T. Ranka, India	70	SHS		S. Sharpe, Canada	2833
RWA		W. Rauscher, PA	179	SDP		D. Sharples, NY	11
RUQ		A. Regnier, Argentina	2	SSA		A. Sharpless, WA	30
RZQ		S. Reichel, Argentina	5	SFY		J. Shears, England	8095
RFA		F. Reichenbacher, AZ	2238	SHW		W. Sherman, TX	6
RZS	03	Z. Reiczigel, Hungary	42	SLH		L. Shotter, PA	748
REP	24	P. Reinhard, Austria	393	SIG		D. Siegrist, MA	2
RWG	02	W. Renz, Germany	26	SPAO	18	P. Siliprandi, Italy	259
RMQ		M. Reszelski, Poland	2085	SNE		N. Simmons, WI	86
RNA	03	N. Rezsabek, Hungary	22	SDO		C. Simone, Argentina	3
RJG		J. Ribeiro, Portugal	4127	SXN		M. Simonsen, MI	989
RIX	14	T. Richards, Australia	10089	SANG		A. Sing, Philippines	73
RRZ	03	R. Ricza, Hungary	65	SYI		E. Skrzynecki, Poland	5084
RRJ		R. Rios, CA	11	SAE	10	A. Slotegraaf, South Africa	6
OJR	06	J. Ripero Osorio, Spain	1866	SJX	10	J. Smit, South Africa	58
RIV		M. Rivera, Italy	7	SDEW		D. Smith, OK	94
RAE		A. Roberts, South Africa	51003	SHA		H. Smith, MI	79
RRX		R. Roberts, NY	2	SUI		R. Smith, England	351
RCW		C. Robertson, KS	2477	SPV		P. Sobotka, Czech Republic	1
RSE		S. Robinson, MD	513	SKA	16	K. Sokolovsky, Russia	19
RZD	06	D. Rodriguez, Spain	199	SBX		A. Sonka, Romania	145
RHE	26	H. Rodriguez, Uruguay	4	SYP		P. Soron, Canada	300
RMU	06	M. Rodriguez Marco, Spain	43	SJZ		J. Speil, Poland	2734
ROE		J. Roe, MO	1003	SMUS	27	M. Spicer, Canada	12
RRO		R. Rogge, Germany	16	SSTE		S. Sposetti, Switzerland	30
ROG		G. Ross, MI	204	SXR	03	M. Sragner, Hungary	27
RGN		G. Rossi, Italy	61	SBL	05	B. Staels, Belgium	13995
RR		R. Royer, CA	23	SBH		B. Standifer, TN	159
RJV	07	J. Ruiz Fernandez, Spain	19	STR		R. Stanton, CA	66
RPH		H. Rumball-Petre, CA	9	SDB		D. Starkey, IN	7570
REM		E. Rumbo, Australia	792	SALE	09	A. Staroverov, Ukraine	63
RTH		T. Rutherford, TN	166	SPET		P. Starr, Australia	1039
RSV		S. Ryan, Ireland	1	SJAT		J. Starzowski, Poland	133
RZM		M. Rzepka, Poland	815	SYO		T. Steck, IN	626
SRIC		R. Sabo, MT	251	STF		G. Stefanopoulos, Greece	764
SJQ		A. Sajtz, Romania	1252	SRAN		R. Steffens II, TN	7
SSU		S. Sakuma, Japan	1146	STI		P. Steffey, FL	724
SVP	15	V. Sallares Pujol, Spain	5	SET		C. Stephan, FL	704
SVI		M. Sallman, MN	229	SVAG		V. Stephanou, Greece	1
SQL	26	R. Salvo, Uruguay	6	STIG		M. Stigliano, Argentina	3
SQU		J. Sanchez Lopez, Spain	86	SRB		R. Stine, CA	599
SAR		A. Sandage, OH	10	SOX		C. Stockdale, Australia	1778
SNL		J. Sandel, SC	22	STQ		N. Stoikidis, Greece	170
SXY		A. Sankowski, Poland	29	SDI	20	D. Storey, England	100
SGX	03	G. Santa, Hungary	861	SFU	14	M. Streamer, Australia	25
STC		G. Santacana, PR	19	SOLI		O. Strickson, England	2
SXQ	01	R. Santallo, French Polynesia	3	SRX	14	R. Stubbings, Australia	1961
SSIM		S. Santini, Italy	127	SUK		M. Stuka, CA	20
SKI	03	K. Sarneczky, Hungary	237	SAC	02	A. Sturm, Germany	320
SGE	27	G. Sarty, Canada	10	SUS	02	D. Suessmann, Germany	460
SSQ		R. Sass, NM	131	SUH		M. Suhovecky, IN	1
SVA		A. Saw, Australia	107	SWV		D. Swann, TX	419
SFI	18	T. Scarmato, Italy	89	SSW		S. Swierczynski, Poland	5180
SXK	02	M. Schabacher, Germany	133	SOZ	03	L. Szantho, Hungary	1
SCQ		T. Schell, TX	16	SAO	03	A. Szauer, Hungary	178
SFS		S. Schiff, VA	309	SLY	03	L. Szegedi, Hungary	230

2. The Year in Review

Table 3. AAVSO Observers, 2006–2007, cont.

Code	Org.	Name	No. Obs.	Code	Org.	Name	No. Obs.
SYV	03	P. Szekely, Hungary	310	VII	03	I. Vincze, Hungary	1
TUO		U. Tagliaferri, Italy	31	VJA	17	J. Virtanen, Finland	12
TDB	27	D. Taylor, Canada	844	VGK		G. Vithoulkas, Greece	1856
TNX	14	N. Taylor, Australia	48550	VRM		R. Vivaldi, Italy	30
TBA		A. Tekatch, Canada	57	VPZ	03	P. Vizi, Hungary	369
TJV		J. Temprano, Spain	274	VMH		M. Vlasov, Israel	1
ATE		A. Teofilo, Spain	929	VFK	02	F. Vohla, Germany	5509
TPS	03	I. Tepliczky, Hungary	526	VOL		W. Vollmann, Austria	197
TFM		F. Teyssier, France	43	UBN01		A. Von Der Linden, Germany	2
TTU		T. Tezel, Turkey	18	VVC		V. Voropaev, Russia	3
TJE		J. Thibodeau, OK	108	VVE		V. Vrhovac, Croatia	22
TGG		W. Thomas, CA	28	WGD		G. Waddill, VA	28
THU	01	B. Thouet, France	74	WLY		L. Wade, MS	46
TIA	03	A. Timar, Hungary	88	WJI	27	J. Wagner, Canada	48
TRE		R. Tomlin, IL	19686	WGR		G. Walker, MA	3354
TWP		W. Toomey, MA	6	WBY		B. Walter, TX	123
TOO	20	J. Toone, England	2	WHN		H. Walter, Hungary	47
TMH		M. Torabi, Iran	1	WJX		J. Wan, Australia	4
TJX	03	J. Toth, Hungary	213	WCB		C. Webster, PA	180
TJ	03	J. Toth, Hungary	180	WPT	10	P. Wedepohl, South Africa	114
TMQ	03	M. Toth, Hungary	15	WDZ		D. Wells, TX	1859
TFR		F. Travaglino, Italy	113	WKL		K. Wenzel, Germany	367
TWA		W. Travis, MA	2	WJD		D. West, KS	128
TRF		C. Trefzger, Switzerland	105	WEF		F. West, MD	434
TDW		D. Trowbridge, WA	109	WRP		R. Wheeler, OK	32
TVS		V. Tsamis, Greece	1	WDO		D. Whelan, RI	937
TSJ		S. Tsuji, Japan	1	WAH		A. Whiting, WA	2
TUB	03	V. Tuboly, Hungary	801	WPK		P. Wiggins, UT	14792
TXA		A. Tudorica, Romania	8	WJO		J. Wilder, CA	1
TYS		R. Tyson, NY	709	WEY		E. Wiley, KS	26
URS		R. Uyematsu, FL	4	WSA		S. Wilfrid, Canada	10
VFR	01	F. Vaclik, Czech Republic	69	WI		D. Williams, IN	1618
VST		S. Valentini, Italy	252	WIG		G. Williams, OH	4
BVE	04	E. Van Ballegoij, Netherlands	2179	WPX	14	P. Williams, Australia	48056
VDH	04	H. Van Den Hil, Netherlands	1	WWJ	20	B. Wilson, England	697
VDL	05	J. Van Der Looy, Belgium	3556	WSN		T. Wilson, WV	693
VDE	04	E. Van Dijk, Netherlands	143	WAS		A. Winkler, Germany	419
VHD	05	D. Van Hessche, Belgium	64	WKM		M. Wiskirken, WA	7
VNL	05	F. Van Loo, Belgium	1203	WBT		R. Wolpert, CA	16
VPJ		J. Van Poucker, MI	2	WGO		G. Wood, NC	11
VUG		G. Van Uden, Netherlands	128	WVR		R. Wood, TX	30
VVP	04	P. Van Vliet, Netherlands	106	WPF		P. Wright, MN	23
VWS	05	J. Van Wassenhove, Belgium	68	WUB	04	E. Wubbena, Netherlands	39
VZP		P. Van Zyl, South Africa	11	XWE		W. Xu, China	1
VBH		H. Vandenbruaene, Belgium	81	YDS		D. Yi, Republic of Korea	3
VEF	05	E. Vanderfeesten, Belgium	6	YBA		B. Young, OK	5
VMT	05	T. Vanmunster, Belgium	37750	YKA		K. Young, CA	13
VKN		K. Vardijan, Croatia	6	ZAD		D. Zak, PA	57
VED	01	P. Vedrenne, France	8370	ZPA		P. Zeller, IN	227
VET	01	M. Verdenet, France	5	ZDM		D. Zhdanok, Russia	4
VIA	01	J. Vialle, France	297	ZIG		I. Zinchenko, Ukraine	42
VLL		A. Villalobos, Costa Rica	14	ZTH		T. Zwach, Austria	10

Table 3. AAVSO Observers, 2006–2007, cont.

These codes, which appear in the Table (AAVSO Observers 2006–2007), indicate observers are also affiliated with the groups below:

- 01 Association Française des Observateurs d'Étoiles Variables (AFOEV)
- 02 Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany)
- 03 Magyar Csillagászati Egyesület, Valtózcillag Szakcsoport (Hungary)
- 04 Koninklijke Nederlandse Vereniging voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands)
- 05 Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium)
- 06 Madrid Astronomical Association M1 (Spain)
- 07 Asociacion de Variabilistas de Espagne (Spain)
- 08 Norwegian Astronomical Society, Variable Star Section
- 09 Ukraine Astronomical Group, Variable Star Section
- 10 Astronomical Society of Southern Africa, Variable Star Section
- 11 Astronomisk Selskab (Scandinavia)
- 12 Liga Ibero-Americana de Astronomia (South America)
- 13 Brazilian Observational Network REA
- 14 Royal Astronomical Society of New Zealand, Variable Star Section
- 15 Agrupacion Astronomica de Sabadell (Spain)
- 16 Association of Variable Star Observers "Pleione" (Russia)
- 17 URSA Astronomical Association, Variable Star Section (Finland)
- 18 Unione Astrofili Italiani (Italy)
- 20 British Astronomical Association, Variable Star Section
- 21 Israeli Astronomical Association, Variable Star Section
- 23 Grupo Astronomico Silos (Spain)
- 24 Astronomischer Jugendclub (Austria)
- 25 Variable Star Observers League in Japan
- 26 Red de Observadores (Montevideo, Uruguay)
- 27 Royal Astronomical Society of Canada
- 29 Asociacion Amigos de la Astronomia (Argentina)

Table 4. Observation statistics for fiscal year 2006–2007.

<i>Observations (increments of 1000)</i>	<i>No. Observations per increment</i>	<i>% of All Observations</i>	<i>No. Observers per increment</i>
1-999	87191	5	652
1000-1999	68750	4	48
2000-2999	47467	3	19
3000-3999	24548	1	7
4000-4999	35718	2	8
5000-5999	49022	3	9
6000-6999	25101	1	4
7000-7999	7570	0.5	1
8000-8999	33054	2	4
9000-9999	18757	1	2
10000+	1315389	77	30