

## Annual Report of the Director for Fiscal Year 2010-2011

### Arne A. Henden, Director

We made it! One hundred years of variable star observing. Who would have dreamed in 1911 that not only is there still lots of interest in variable stars, but that the amateur community was still in demand to satisfy the needs of researchers. We have come a long way in those 100 years, as detailed elsewhere in this Annual Report, as well as in the great history book written by Michael Saladyga and Tom Williams.



I have looked at some of those early reports. What I find most interesting is the handwriting. People did not use typewriters much at the turn of the century, and writing was a real art. Even numbers were easily readable on almost all reports, in nice black ink on acid-free paper, and the accompanying letters were gorgeous. They really gave you an insight as to what it was like to be a variable star observer a century ago. I envy Tom and Michael in their access to the archives while researching the book; you can get so easily engrossed in reading and lose track of time.

Now, looking back at the beginnings of our organization is fascinating, but we must remember that the AAVSO did not become “100” by sitting around; we’ve been active, producing tens of millions of observations, and changing with the times, from the purely visual days of last century to a combination of techniques today. I see variable stars as a continuing research area for the next century, with more Citizen Scientists needed to handle the wide variety of new objects that are going to be discovered. If you thought the last few decades were fun, you haven’t seen anything yet!

### *AAVSO International Database*

In FY2010, we collected 1.2 million observations: 201,079 of these were visual observations; 1,392 were photoelectric photometry (PEP) of photographic observations. The remainder (933,952) 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 pages 50 and 51 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 2021, we will be collecting 15 million observations per year!

We passed the 20 million observation mark this year, and in honor of that event, held

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a contest to see who could predict when the mark would be reached. The winner was Chris Watson, and the 20 millionth observation was of GV And by Josch Hamsch.

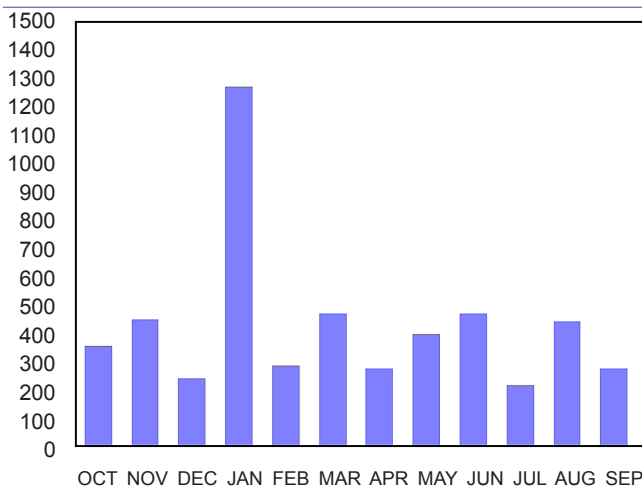
Work continues on importing the electronic database of the Royal Astronomical Society of New Zealand (RASNZ). A large fraction of the observational data comes from just a few observers, such as Albert Jones and Danie Overbeek, and so was straightforward to import. The remaining observations require assigning observer codes to those observers who were not regular AAVSO submitters, as well as determining what charts and comparison stars were used. We hope to finish this project in the near future.

A couple of years ago, Grant Christie of the RASNZ shipped several boxes of file folders from Frank Bateson to the AAVSO HQ. These file folders contained southern-star observations, some that made it into the RASNZ database and then into the AID when that database was transferred to us, and some observations that were never digitized. Mike Saladyga is starting to go through those boxes, sorting and cleaning up the filing, and discovering how many new observations are included in the shipment. We expect there to be quite a few estimates that need to be digitized so that they can be imported into the AID, and likely will ask for volunteers to help in the process.

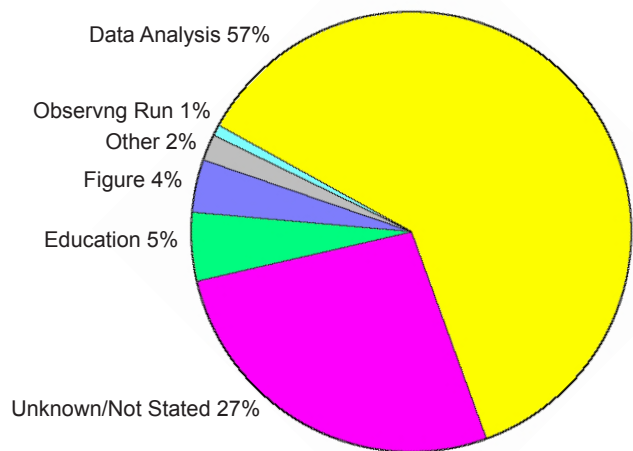


AAVSO archivist Michael Saladyga examines papers from the RASNZ-Bateson collection

We had 5,092 data requests from a multitude of researchers during the year. The data request rate is pretty constant throughout the year, but has definitely continued its upward trend.



Number of data requests by month during FY 2010-2011



Areas in which AAVSO data or services were used during FY 2010-2011

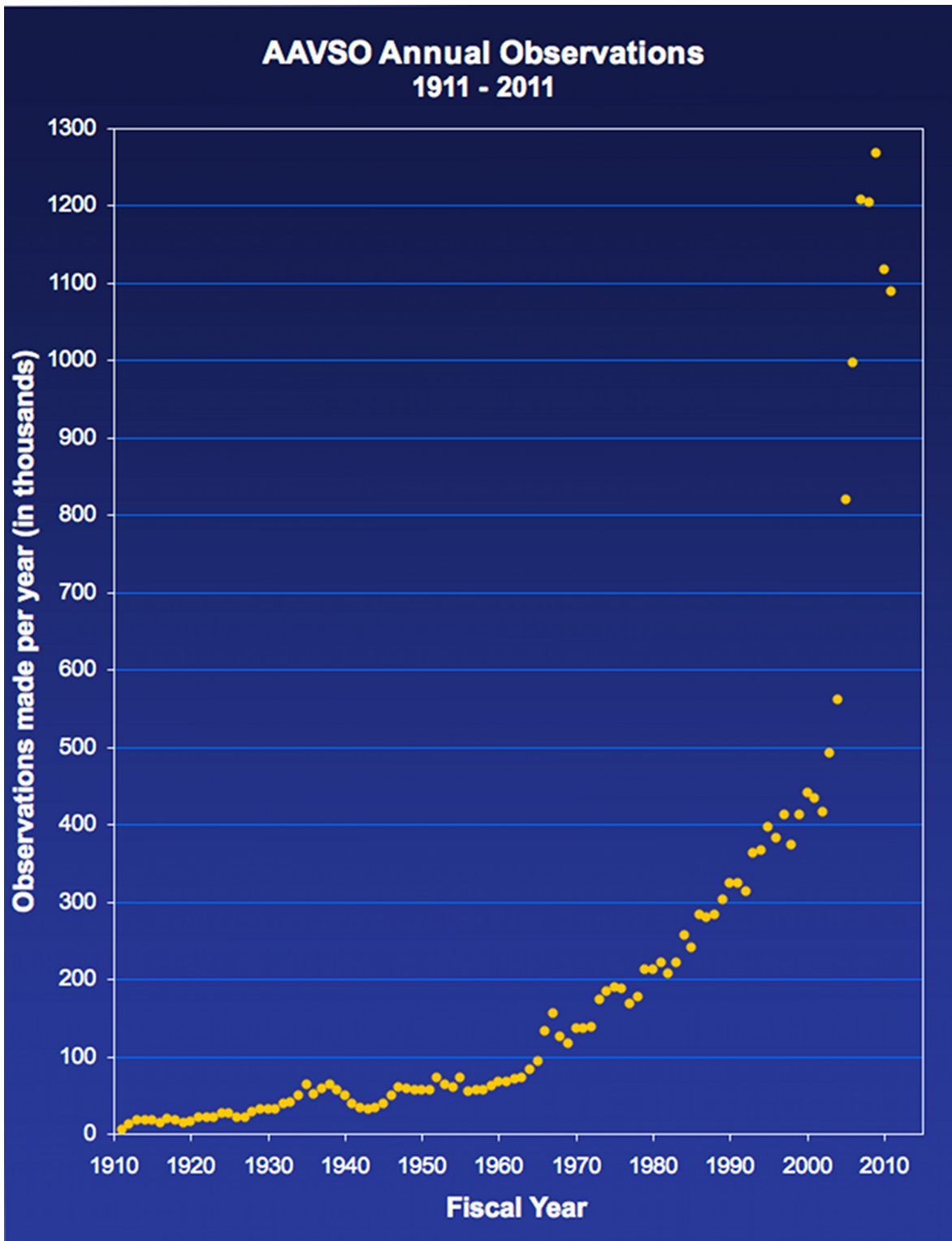
### *International Cooperation*

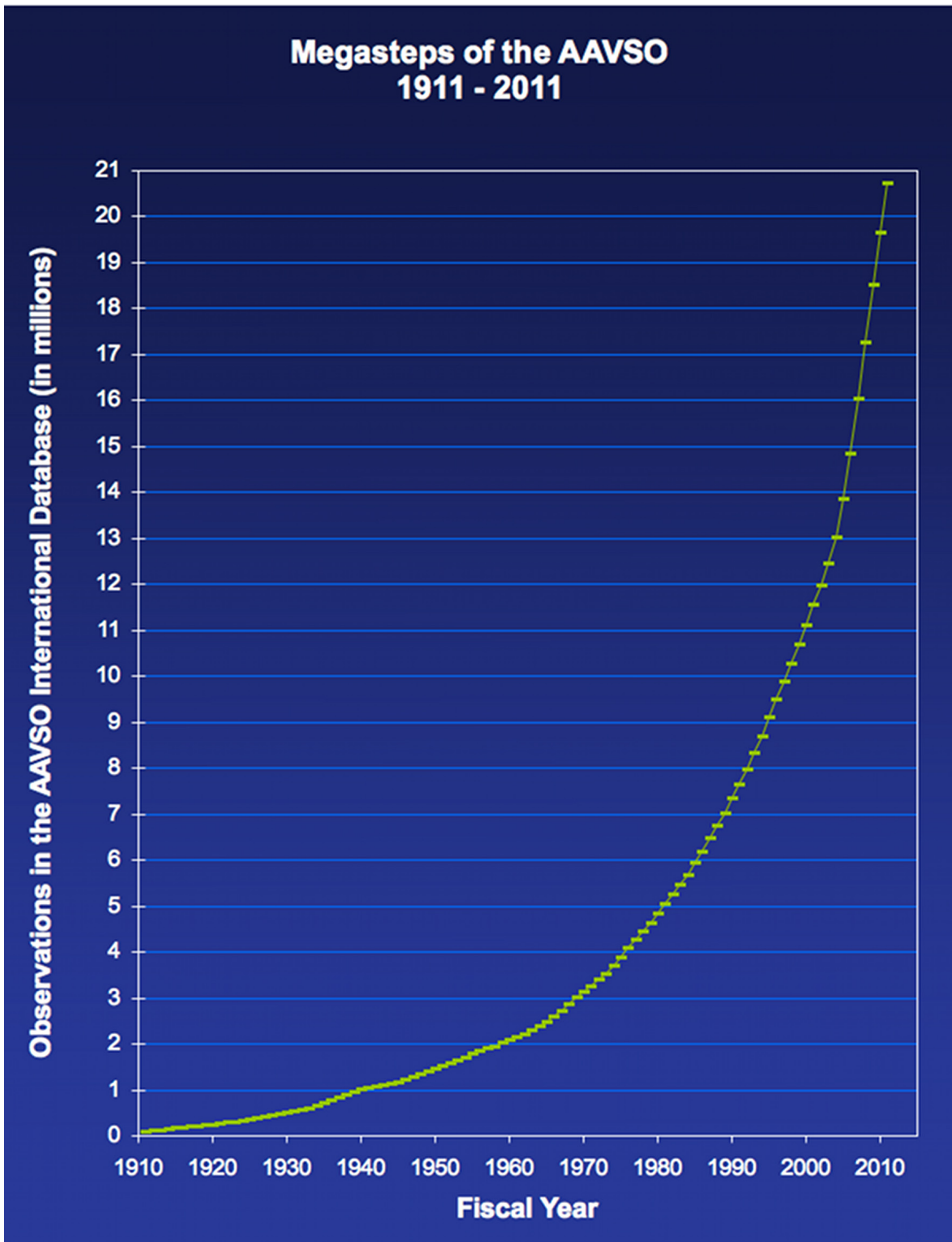
We acknowledge with appreciation the observations sent to the AAVSO by members of the following variable star associations, either individually or as a group, for inclusion in the AAVSO International Database for dissemination to the astronomical community worldwide:

- a. Agrupacion Astronomica de Sabadell (Spain)
- b. Association of Variable Star Observers “Pleione” (Russia)
- c. Association Française des Observateurs d’Étoiles Variables (AFOEV) (France)
- d. Astronomical Society of Southern Africa, Variable Star Section
- e. Astronomisk Selskab (Scandinavia)
- f. Astronomischer Jugendclub (Austria)
- g. British Astronomical Association (BAA), Variable Star Section
- h. Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany)
- i. Center for Backyard Astronomy
- j. Koninklijke Nederlandse Vereniging voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands)
- k. Liga Ibero-Americana de Astronomia (South America)
- l. Madrid Astronomical Association M1 (Spain)
- m. Magyar Csillagászati Egyesület, Valtózcillag Szakcsoport (Hungary)
- n. Norwegian Astronomical Society, Variable Star Section
- o. Red de Observadores (Montevideo, Uruguay)
- p. Rede de Astronomia Observacional (Brazil)
- q. Royal Astronomical Society of Canada
- r. Royal Astronomical Society of New Zealand, Variable Star Section
- s. Svensk Amator Astronomisk Förening, Variabelsektionen (Sweden)
- t. Ukraine Astronomical Group, Variable Star Section
- u. Unione Astrofili Italiani (Italy)
- v. URSA Astronomical Association, Variable Star Section (Finland)
- w. Variable Stars South (New Zealand)
- x. Vereniging voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium)

Leonid Berdnikov stayed in the Feibelman Guest Suite while he was working at the Harvard Plate Stacks investigating the long-term behavior of Cepheid variables. Bas Bergmans, a student of Erwin van Ballegoij, visited headquarters for a week while learning how to do research.

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## 2. The Year in Review

### *Software*

VPHOT, the premier photometry analysis program written by Geir Klingenberg, has been moved to the Amazon Cloud. This is our first experience with cloud computing, and has been very successful. Users upload their images to the cloud server and can then analyze them there. An AAVSO Extended Format report is generated and can be submitted to the AAVSO through WebObs.

Dr. Matthew Templeton has released his observation planning tool on the website. This uses VSX, as well as searching the AID, and produces a list of objects that meet certain criteria chosen by the observer for monitoring on the current night.

VSTAR, the Java program written by David Benn as part of Citizen Sky, has undergone several improvements this past year. The major new feature involves plugins; you can add analysis routines of your own to the system or increase the ability to read external datasets. For example, Doug Welch added a SuperWASP plugin that can read the FITS table format of the photometry from this survey.

Will McMain, our web developer, has been porting features from our previous website, at the same time improving those features. WebObs now has many search and sort options to give you more flexibility when submitting observations. The membership/subscription module was redone. We have added new section pages, expanded the AAVSONet web pages, and Matt wrote a neat Bulletin Generator for the LPV AAVSO *Bulletin* that gives you the ability to pick and choose a customized list of stars to follow. MyNewsFlash was ported to the new website.

### *AAVSONet News*

We are making considerable progress towards fully populating AAVSONet. We added three new telescopes this year: BSM-south at Ellinbank Observatory (Australia; Peter Nelson), along with K28 and K35 at Astrokolkozh Observatory (New Mexico; Tom Krajci). K28 is unique in that it primarily uses the Sloan g',r',i',z' filter set. The 50-cm at Sonoita Research Observatory is now fully operational, in fact, John Gross sold his C-14, thereby "burning our bridges."

We have started the refurbishment of the New Mexico State University 24-inch telescope on Tortugas Mountain. Called TMO61 (for Tortugas Mountain Observatory 61-cm), this telescope refurbishment project has been jointly funded by Bart Staels, Gary Walker, and NMSU. The telescope was originally installed in the 1960s, and was heavily used for several decades to produce some really excellent planetary images, especially of



Uranus and Neptune. It resides on an isolated 1,000-ft. mountain just on the northern edge of Las Cruces, and so has a very nice laminar air flow with excellent seeing. The sky darkness is fine to the north and east; to the south, you pick up a bit of El Paso, and to the west, you have the lights of Las Cruces. This will be a deep imaging, good seeing site, with an excellent pixel match on the CCD camera. We expect it to come on-line during 3rd quarter 2012.

We have made numerous improvements to the processing pipeline. Each AAVSONet telescope has its own pipeline, and starts processing at a fixed hour through the next day. As images are processed, they are stored locally, sent to the ftp site, and optionally sent to a user's VPHOT account. An email notification is sent when images for a specific project are available.

### *APASS News*

The AAVSO Photometric All-Sky Survey (APASS) continues to operate nominally. We moved the original telescope/camera configuration from Dark Ridge Observatory (DRO), where it had been operating for several months, down to the Cerro Tololo Inter-American Observatory (CTIO), where it was placed in the PROMPT6 clamshell. Dan Reichart, the Principal Investigator for PROMPT, gave us permission to use this clamshell as it was not essential for PROMPT. They loaned a Paramount ME to us, a god-send as getting mounts into Chile is not the easiest task! Tom Smith and I went down to CTIO in November 2010 to install the system. It was up and running inside of a week, with only minimal shake-down needed thereafter. We then purchased another set of telescopes/cameras and installed them on top of Tom Bisque's Paramount at DRO.

That said, APASS has not been operating as efficiently as I would have liked. We have had several hardware failures, including a camera sensor that became inoperable, a primary mirror that was misfigured, and a filter wheel that failed. Including operator errors and poor weather, we've been running at about 25% efficiency for the first year. Hopefully that percentage will improve, now that most of the bugs have been shaken out of the system.

We released Data Release 3 (DR3) during this fiscal year, with about 8 million stars. We expect to make a new data release about once/quarter, covering both northern and southern hemispheres. Now that the catalog is being made available to the public, we are starting to see increased interest from the community. APASS has been included in the Seqplot database, and so is being used by the Sequence Team for updating variable star sequences.

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### *The AAVSO Citizen Sky Project*

As part of the IYA 2009 celebration, the AAVSO was awarded a major NSF grant to involve a large number of Citizen Scientists in a real research project—following the 27-year eclipse of  $\epsilon$  Aurigae and developing scientific projects related to the event. The first workshop occurred just before FY 2009/2010, but the second workshop was held in early September 2010. That one, at the California Academy of Sciences, was devoted to data analysis and paper writing. The eclipse occurred on schedule, with thousands of estimates reported to the AAVSO. We're still monitoring the star out of eclipse to more fully understand the pulsational behavior of the visible F-class star. This will also help in removing the pulsational signature seen during the eclipse, so that we can study just the eclipse phenomenon itself.



Several “teams” were formed that designed science projects. One team created the Southern Gems beginner’s set of objects for southern hemisphere observers. Another experimented with DSLR cameras, finding that they are excellent photometric instruments, especially for bright stars. In fact, we are hoping to hold a third and final workshop, funding permitting, on DSLR photometry and the creation of a manual for use of these cameras in variable star astronomy.

### *MOST NASA Grant*

Dr. Matthew Templeton was awarded a NASA grant last year, using the Canadian MOST spacecraft. MOST is a 12-cm telescope with a CCD camera, designed to observe a single field for weeks on end, obtaining precision photometric data of bright stars. Originally, MOST concentrated on stars 4th magnitude or brighter, obtaining micromagnitude precision. More recently, they’ve used their guiding chip to image fainter objects down to about 12th magnitude with lower precision, but still far better than ground-based observations. Matt proposed using MOST to study stars in the Orion Trapezium region, concentrating on BM Ori but also imaging another couple of dozen stars. Those observations were taken during December 2010 and January 2011, for a total of about 30 consecutive days of data. We supported those observations with a ground-based campaign to acquire photometry before, during, and after the MOST window. Many nights of data were also obtained with the AAVSO Bright Star Monitor. Matt is now in the process of analyzing the observations, with several papers expected in collaboration with Bill Herbst (Weslyan University) and Joyce Guzik (Los Alamos National Laboratory).



### *Two Eyes, 3D NSF Grant*

Dr. Aaron Price submitted another Education Research grant to the NSF Informal Science Education (ISE) branch, and was again successful. This grant, called Two Eyes, 3-D, studies the cognitive processes and learning outcomes involved in 2D and stereoscopic visualizations of highly spatial scientific objects, with a goal of building a more effective learning experience. Aaron will study school children using a series of images in both 2D and 3D and ask content and spatial questions about what they see. A pair of HD stereoscopic films about colliding galaxies and supernovae will be developed and presented by the Alder Planetarium as well, to study how adults learn spatial concepts. The tie-in for the AAVSO is in the variable star aspects of the movies and images, an understanding of how to better make finding charts, and the additional funding that will be available for our infrastructure.

### *Second Generation Synoptic Survey Grant*

We have also received a major new grant from the Robert Martin Ayers Sciences Fund. Provisionally called the Second Generation Synoptic Survey (2GSS), this project aims to cover the entire sky, every night, from 10th to 17th magnitude, in two simultaneous bandpasses. This is much like ASAS on steroids. It is a follow-on to APASS, highly leveraging its excellent calibrations to permit observations anywhere in the sky in even non-photometric weather. The grant pays for the first node of an anticipated 5-node network. Once the initial node is operational, we will submit an NSF grant to pay for the remaining installations. We expect to be taking science data with the first node by the end of 2012, covering 8000 square degrees every clear night.

### *Janet A. Mattei Research Fellowship*

Our third Janet Mattei Research Fellow was Dr. Doug Welch (McMaster University). Doug was at HQ for about three weeks in Summer 2011. His main work was with our RR Lyrae data, which he wrote into a blog posting. He also wrote scripts for staff for using the open source tesseract OCR program, and for using the astrometry.net libraries for image plate solving. He also advised the VSTAR team on building plug-ins for CLEANEST and WWZ analysis, and wrote a plug-in for the SuperWASP variability data. He also hosted a public chat session about "The Science of Variables." We had many fruitful discussions with Doug about database and IT issues; Doug has tirelessly campaigned for us to make more use of the Cloud.

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### *Headquarters Renovation Work*

We purchased the HQ building from Sky Publishing “as-is.” In general, the building was in fine shape, but needed some basic repairs after many years of service. We replaced the exterior siding last year, changing the exterior from “industrial sheet metal” to more of a New England clapboard style. This year, we had the exterior ground floor painted. There were two styles of construction—a simple stucco/cement on the house, and concrete masonry units for the office portion. We



*100th anniversary banner hung on the HQ building. Exterior siding and painting improvements can be seen here.*



*Past President David B. Williams and Director Arne Henden unveil the AAVSO sign at the start of the Headquarters rededication ceremonies during the AAVSO's 100th Annual Meeting*

used a textured paint to blend these two styles together, and use a complementary color to match the new siding. Once painted, the original Clinton B. Ford Astronomical Data and Research Center sign that was on the exterior of the 25 Birch building was re-hung on our new headquarters. Together, these changes made for a very attractive external appearance for members coming to visit during the Centennial celebration. Inside, we held a couple of “painting days” to repaint the conference center. The final phase of the renovation is new landscaping, and we hope to begin that phase in the coming year.

Our phone system was nearing the end of its lifetime. It was “computerized” with software running on a PC running OS/2 (remember that operating system?). Doc researched the available options, and we ended up purchasing a new VOIP system. Doc also installed a cable modem and a special router that combines the modem and T-1 lines when possible to increase transfer speeds.

### *Centenary Celebrations*

The celebration of our centenary is covered elsewhere in this Report. Needless to say, we had a good time planning the activities, and enjoyed the meetings as much as the rest of the membership! There were some neat observer challenges through the year: the trivia contest; the 100 stars in 100 days; 2,011 observations in 2011, etc. Predicting the future for the time capsule was a blast. We sold more T-shirts with my signature on them than I expected! Aaron came up with the idea for a long banner advertising our Centennial, and, together with Mike Saladyga, hung it on the building. Sara Beck and

Mike Saladyga created a long banner of the 100-year light curve of SS Cyg and hung it around the Conference Center. Now, what do we do for our 200th year celebration?

### *Staffing*

Arthur Ritchie continues volunteering at HQ. He comes in whenever we call for assistance, usually to help in stuffing envelopes, mailing *Solar Bulletins*, and general sorting. We really appreciate his efforts, and they save considerable staff time.

We have hired a new Administrative Assistant, Lauren Rosenbaum. We had dozens of applications for the position, and narrowing down the list to a small set of finalists was a difficult process. We brought in the short-list applicants to meet the staff in an informal setting so that we could see how personalities meshed and view them as real people instead of printing on a page. After that process, Lauren came out head and shoulders above the other applicants, and her first months here at HQ have not lessened our respect for her abilities. Lauren is working on an advanced degree at Tufts, and spends half of her time at HQ. She has been an able assistant, and we've been expanding her duties to utilize her more effectively.

Donna Young (Chandra satellite education/public outreach) approached us this year, and asked if we would be interested in having her join the AAVSO staff. Donna has a long history with the AAVSO, and was a key person in the development of the *Hands-on Astrophysics* project. She was stationed at the Tufts Wright Center for the past few years, on contract with Chandra to do much of the education/public outreach, especially to teachers. As the Wright Center was closing, her move to the AAVSO was an obvious choice, and her contract moved with her. She now lives in Bullhead City, Nevada, and travels extensively to give workshops. She returns to HQ several times a year. Donna is also a key person with the Science Olympiad, and has highlighted variable star topics in that competition.

Sebastian Otero started work at the AAVSO as an external contractor. While living in Argentina, Sebastian is telecommuting, primary working on VSX, moderating the Spanish forum on the website, and doing Spanish translations for the website, documentation, and press releases.

Benjamin (Ben) Briggs was our 2010 Margaret Mayall summer assistant. He is a Computer Science major at Tufts, and is working with Aaron and Will on website programming tasks.

Aaron completed his doctoral work at Tufts University in Science Education. He held his defense in November 2010 and graduated in May 2011. He used the Citizen Sky project as the basis for his research.

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Other than these changes, headquarters staffing has remained constant. With the new additions, we have twelve full-time employees, along with two part-time employees and a contracted accountant. 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!

### **Publications**

Mike Saladyga and Tom Williams finished the Centenary book (*Advancing Variable Star Astronomy: The Centennial History of the American Association of Variable Star Observers*), and it was published by Cambridge University Press in time for the AAS meeting in May. Mike and Tom held a book reading and a book-signing session at the AAVSO Annual meeting. We still have several copies of this book for sale from HQ at a special price.



*Mike Saladyga and Tom Williams signing copies of their AAVSO history book*

We started the Carolyn Hurless Online Institute for Continuing Education (CHOICE). Two classes have been given so far: Developing a Visual Variable Star Observing Program (by Mike Simonsen), and Uncertainty about Uncertainty (by Aaron Price). The response has been enthusiastic, and we hope to continue these courses in the future.

JAAVSO volume 38, number 2, through volume 39, number 1, were published. Many eJAAVSO articles were posted. We posted 23 *Alert Notices* and 39 *Special Notices*. Three “Variable Star of the Season” articles were published. We contributed sections for the *RASC Observer’s Handbook*. Elizabeth Waagen completed long period variable maxima/minima AAVSO Bulletin Number 74. The AAVSO released the annual eclipsing binary/RR Lyrae stars ephemerides as well as the monthly *Solar Bulletin*. Several new translations of the *AAVSO Manual for Visual Observing of Variable Stars* were made, including Russian and Farsi.

There were over 25 staff publications (Henden, Price, Saladyga, Templeton, Waagen; *PASP*, *AJ*, *JAAVSO*, etc.). We noted that 82 papers in journals such as *Astronomy and 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 and Meetings**

As this was the centenary year, there was quite of bit of travel to meetings and star

parties by the staff. I went to Stellafane, where I gave a talk on  $\epsilon$  Aurigae. Mike Simonsen went to the Texas and Nebraska Star Parties. Rebecca Turner was at the Table Mountain Star Party. Sara Beck and John O'Neill talked about variable star observing at the Galway Star Party. I gave a talk on APASS and 2GSS at the IAU 285 colloquium in Cambridge, UK, robotic telescopes at the AFAR meeting in Hawaii, MOST at the AAS meeting in Seattle, variable star research with small telescopes at Iowa State University, and on variable star projects at Utah State University. I also gave a talk at ALCON, held at Bryce Canyon, and received the Leslie C. Peltier award from the Astronomical League while there. Finally, I was invited to sit on a couple of NSF/NASA review panels. I would also like to mention that much of my travel is subsidized by the hosts of the attended meetings. Sometimes they can contribute towards the plane fares, and often provide housing, meals, and logistical support. This is gratefully appreciated!

The May meeting was a joint venture between the American Astronomical Society and the AAVSO. We had a good history of variable star astronomy session on Sunday (organized by Tom Williams), followed by two variable star sessions during the main meeting (see full description in the Minutes of the 100th Spring Meeting). We were able to get the AAS Council to AAVSO HQ for the banquet, and had an open house for meeting registrants.

### *Looking Towards the Future*

Coming up over the next fiscal year will be a number of improvements in support of our observers. We will be adding more precision photometry to the comparison star database. APASS will complete its primary 2-observation survey. More campaigns will be announced. The robotic telescope network will be expanded, with all of the 24-inch telescopes coming on-line. Hopefully some of our submitted grants will be awarded. All-in-all, I think 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 section leaders handle specific areas of interest, working with enthusiastic observers and making reports to the membership

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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 Sequence 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 2010–2011 by Country.\*

Country	No. Observers	No. Obs.	Country	No. Observers	No. Obs.	Country	No. Observers	No. Obs.
Argentina	6	111	Germany	40	32022	Serbia	1	663
Australia	33	114127	Greece	8	1499	Slovakia	1	5120
Austria	3	818	Hungary	54	24349	Slovenia	5	295
Belarus	2	363	India	2	3	South Africa	7	371
Belgium	17	46404	Ireland	4	168	Spain	45	56101
Bermuda	1	48	Italy	40	9935	Sweden	6	5568
Bolivia	1	151	Japan	4	1097	Switzerland	3	97
Brazil	22	3750	Lithuania	1	4	Turkey	3	31
Bulgaria	2	34	Mexico	1	890	Ukraine	3	158
Canada	47	19145	Netherlands	14	1922	U.S.A.	515	578771
China	7	365	New Zealand	6	2995	Uruguay	1	31
Colombia	1	24	Nicaragua	2	29	TOTAL	1055	1136640
Croatia	2	5720	Norway	2	994			
Cyprus	1	8413	Peru	1	1			
Czech Republic	3	172	Philippines	1	349			
Denmark	5	858	Poland	27	11813			
England	43	71793	Portugal	3	867			
Finland	14	28570	Romania	8	6474			
France	32	91742	Russia	5	1415			

Table 2. AAVSO Observer Totals 2010–2011 USA by State or Territory.\*

State	No. Observers	No. Obs.	State	No. Observers	No. Obs.	State	No. Observers	No. Obs.
Alabama (AL)	1	5	Maine (ME)	4	555	Oregon (OR)	2	40399
Arizona (AZ)	18	5717	Maryland (MD)	12	170	Pennsylvania (PA)	11	2377
Arkansas (AR)	1	27	Massachusetts (MA)	207	35146	Rhode Island (RI)	3	1807
California (CA)	39	23979	Michigan (MI)	7	7848	South Carolina (SC)	3	205
Colorado (CO)	6	8268	Minnesota (MN)	5	877	Tennessee (TN)	4	118
Connecticut (CT)	8	442	Mississippi (MS)	3	971	Texas (TX)	22	9441
Delaware (DE)	2	16	Missouri (MO)	5	4413	Utah (UT)	2	1625
District of Columbia (DC)	2	1055	Montana (MT)	1	40592	Vermont (VT)	6	68
Florida (FL)	14	75024	Nebraska (NE)	1	83	Virginia (VA)	4	504
Georgia (GA)	6	521	Nevada (NV)	1	21763	Washington (WA)	8	484
Hawaii (HI)	2	1170	New Hampshire (NH)	4	467	West Virginia (WV)	2	1215
Illinois (IL)	19	134331	New Jersey (NJ)	6	87	Wisconsin (WI)	7	21926
Indiana (IN)	8	3298	New Mexico (NM)	5	116449	Wyoming (WY)	3	865
Iowa (IA)	2	249	New York (NY)	21	11764	TOTAL	515	578771
Kansas (KS)	5	448	North Carolina (NC)	6	238			
Kentucky (KY)	3	432	Ohio (OH)	7	371			
Louisiana (LA)	2	29	Oklahoma (OK)	5	932			

\* Totals reflect observations made during fiscal 2010–2011 and do not include historical data (data preceding fiscal 2010–2011) submitted during fiscal 2010–2011.

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Table 3. AAVSO Observers, 2010–2011.\*

<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>
AAP		P. Abbott, Canada	3195	BCP	20	C. Beech, England	388
AAN	02	A. Abe, Germany	120	BRAA		R. Bell, CA	6
AALA		A. Abouzahr, MA	7	BZX		A. Beltran, Bolivia	151
ABNA		B. Abu-Eid, MA	10	BRGA		R. Bendetson, MA	7
ARV		R. Adamson, CA	3	BHS		H. Bengtsson, Sweden	1012
ACN	13	C. Adib, Brazil	741	BDJB		D. Benn, Australia	39
AJRB		J. Adler, MA	6	BTY		T. Benner, PA	315
AUIA		U. Agha, MA	10	BERA		E. Bennett, MA	7
ASA		S. Aguirre, Mexico	890	BMRA		M. Bennett, NY	2
ADEA		D. Aktas, MA	8	BEB		R. Berg, IN	859
ACO	20	C. Allen, Sweden	2135	BRIC		R. Berg, DC	1040
AJC	13	J. Almeida, Brazil	141	BANB		A. Berman, MA	11
AJV	15	J. Alonso, Spain	330	BVO		V. Bibe, Argentina	1
AANB		A. Altman, MA	14	BIC	01	L. Bichon, France	4
ACMA		C. Alvarez, FL	10	BBAC		B. Biever, CA	3
AAA	13	A. Alves, Brazil	1	BQM		M. Bignotti, Italy	61
AAX	13	A. Amorim, Brazil	2594	BBI	05	B. Billiaert, Belgium	1003
ARLA		R. Andersson, Sweden	379	BMAA		M. Bird, MA	3
AADA		A. Anunziato, Argentina	3	BZP	03	Z. Biro, Hungary	4
AMIC		M. Apoj, FL	8	BXN	01	M. Bisson, France	273
AJN	27	J. Appleyard, Canada	166	BXT	08	T. Bjerkgaard, Norway	278
AAM		A. Arminski, Poland	1090	BRAC		R. Black, OK	284
ARJ		J. Arnold, TX	21	BMGA		M. Blackford, Australia	18386
ARN	01	L. Arnold, France	42	BKL		J. Blackwell, NH	68
ATE		T. Arranz, Spain	40471	BVZ		J. Blanco Gonzalez, Spain	45
APCA		P. Artis, MA	12	BLD	10	D. Blane, South Africa	214
ATI	03	T. Asztalos, Hungary	147	BDSA		D. Blazko, Slovenia	164
AAUA		M. Audejean, France	355	BJTA		J. Bloom, MA	10
ADI	02	D. Augart, Germany	521	BRCA		R. Bloom, MA	5
ARX		R. Axelsen, Australia	1	BWZ		E. Blown, New Zealand	1005
AANC		A. Ayiomamitis, Greece	1	BREI	02	R. Boettcher, Germany	8
ANIA		N. Azimi, MA	10	BHQ	29	T. Bohlsen, Australia	833
PBC		P. Bacci, Italy	210	BOI		B. Bois, Canada	1
BOZ	03	B. Bago, Hungary	1156	BBOA		B. Boitnott, TX	462
BPEA		P. Bagyinszki, Hungary	198	BVS		S. Bolzoni, Italy	130
BIY		D. Bailey, IL	1	BZU		M. Bonnardeau, France	880
BFO	03	J. Bakos, Hungary	2327	BRJ		J. Bortle, NY	4550
BALJ	14	A. Baldwin, New Zealand	15	BMDA		M. Bossen, MA	10
BVN	18	M. Banfi, Italy	2106	BCRC		C. Boulay, MA	11
BAQA		A. Bangser, MA	6	BMU	04	R. Bouma, Netherlands	26
BGZ		G. Banialis, IL	266	BTKA		T. Bove, MA	5
BBDA		B. Barad, CA	11	BDG	20	D. Boyd, England	10120
BRAI		R. Barman, MA	5	BBTA		B. Boyle, Canada	1
BTJA		T. Barnard-Hawkins, MA	7	BMK		M. Bradbury, IN	141
BRJA		R. Baron, Canada	2	BXS		S. Brady, NH	389
BSR	18	S. Baroni, Italy	240	BRAF		R. Braga, Italy	35
EED		E. Barreto, Brazil	1	BANA		A. Branz, MA	6
BPO		D. Barrett, France	2344	BNW	02	W. Braune, Germany	6
BQ	03	L. Bartha, Hungary	3322	BJOA		J. Breakstone, FL	9
BVT		T. Bartlett, TX	215	BQC	01	J. Breard, France	71
BENA		E. Basilier, AZ	1	BKAB		K. Breivik, UT	25
BALA		A. Baskin, MA	5	BTB		T. Bretl, MN	263
BWAA		W. Basso, Canada	185	BQE		E. Briggs, Canada	1
BBA		B. Beaman, IL	2380	BPEB		P. Brock, England	331
BWX	27	A. Beaton, Canada	13	BOS	05	E. Broens, Belgium	1
BSJ		S. Beck, MA	1	BXV	15	X. Bros Caton, Spain	1
BQB	03	B. Becsy, Hungary	29	BOA	01	A. Bruno, France	12030
BDQ		A. Bedard, WA	214	BJRA		J. Bruton, CA	100
BJS		J. Bedient, HI	8	BHU		R. Buchheim, CA	190

## 2. The Year in Review

Table 3. AAVSO Observers, 2010–2011, 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>
BRAH		R. Buchwald, WI	6	CEMB		E. Conseil, France	356
BWCA		W. Buckley, MA	7	CMJA		M. Cook, Canada	560
BGMA		G. Burruss, MA	15	CAGA		A. Copland, NC	7
BSRA		S. Buser, MA	7	CPI	18	P. Corelli, Italy	4
BIW		N. Butterworth, Australia	7592	CLZ		L. Corp, France	7147
CDC		S. Cacicedo, Spain	26	CAI		A. Correia, Portugal	432
CAMC		A. Calfas, MA	8	CLMA		L. Cotton, MA	7
CCB		C. Calia, CT	361	CWD		D. Cowall, MD	5
CCZ		C. Calis, Turkey	8	CDN		D. Cowles, TX	2
CMMA		M. Callahan, MA	17	CFY		J. Craig, MA	10
CMN		R. Cameron, Australia	25	CTX		T. Crawford, OR	11391
CMQ		P. Camilleri, Australia	10	CEJA		E. Crist, AZ	95
CMP		R. Campbell, FL	855	CAMB		A. Crittenden, MA	7
CEM	15	E. Capella, Spain	7	CMY	20	M. Crook, England	1
CANA		A. Capirci, NY	10	CBLA		B. Crosby, SC	12
CPG		P. Caponnetto, Italy	13	CMD	20	M. Crow, England	87
CALA		A. Caradossi, Italy	21	CBZ	03	B. Csak, Hungary	2
CANB		A. Cardenas, MA	11	CTI	03	T. Csorgei, Hungary	33
CLTA		L. Carey, MA	12	CSM	03	M. Csukas, Romania	697
CMNA		M. Carrier, VT	10	CKB		B. Cudnik, TX	2736
CROA		R. Carstens, New Zealand	586	CCHA		C. Curtis, England	1
CNBA		N. Cartier, MA	9	DJIB		J. Dapkus, WI	5
CVJ		J. Carvajal Martinez, Spain	10	DGSA	20	G. Darlington, England	2330
CPAA		P. Casado, South Africa	9	DDRA		D. Darnell, Canada	2
CNY		A. Cason, GA	23	DJEA		J. Darnet, France	1
CLQ		L. Cason, SC	36	DAM	06	A. Darriba Martinez, Spain	226
CJE	01	J. Castellani, France	598	DNIA		N. Davari, MA	13
CJAA		J. Castillo, MA	9	DBEA		B. Davies, CA	447
CKN		K. Castle, AZ	7	DAJ		J. Davis, MD	5
CWO		W. Castro, OH	17	DMA		M. Davis, SC	157
CJWA		J. Caveny, NH	2	DSAA		S. Dawley, CA	6
CDZ		D. Cejudo Fernandez, Spain	1152	DJX	27	M. De Jong, Canada	339
CQJ		J. Centala, IA	227	DENA		E. De Miguel, Spain	186
CNRA		N. Cerf, MA	12	DPP		P. De Ponthiere, Belgium	5584
CMA		M. Cerruti, Argentina	84	SWQ	13	W. De Souza, Brazil	85
CMAB		M. Cervoni, Italy	114	DLEA		L. Deaderick, MA	8
CAAA		A. Chadha, IL	5	DCEA		C. Deal, MA	12
CPIA		P. Chalon, MA	6	DSWA		S. Delchamps, IL	62
CYUA		Y. Chang, MA	9	DFR	27	F. Dempsey, Canada	15
CARA		A. Chanrai, MA	3	DWEA		W. Deng, MA	6
CNT		D. Chantiles, CA	465	DDE		D. Denisenko, Russia	82
CGF		G. Chaple, MA	62	DAT		A. Derdzikowski, Poland	4186
CBEA		B. Chardi, Spain	1	DNO		O. Deren, Poland	244
CBHA		B. Chen, MA	9	DFVA		F. Desalvo, FL	5
CCAA		C. Chen, MA	5	DBRA		B. Desoete, Belgium	5
CQS		S. Cheng, China	318	DSI		G. Di Scala, Australia	16952
CMDA		M. Chrobak, PA	9	DANA		A. Diaz, MA	7
CYOA		Y. Chung, MA	8	DJEB		J. Dietrich, KS	6
CMAA		M. Ciocca, KY	425	DRD		R. Dietz, CO	8
CPY		P. Clayton, England	1	DLA		A. Dill, KS	345
CPE	06	P. Closas, Spain	86	DIL		W. Dillon, TX	4
CKRB		K. Cohen, MA	6	DSAB		S. Diss, NJ	5
CDK		D. Collins, NC	109	DJJA		J. Dodds, MA	7
COL		P. Collins, AZ	29	GDB	03	G. Domeny, Hungary	16
CME	18	E. Colombo, Italy	86	DVHA		V. Dorer, FL	10
CTIA		T. Colombo, Italy	85	DRDA		R. Dos Santos, Brazil	21
CMG	04	G. Comello, Netherlands	9	DRDB		R. Dos Santos, Brazil	2
CJA	10	J. Compos, South Africa	12	DDJ		D. Dowhos, Canada	46
CDSA		D. Conner, England	56	DMJA		M. Dragosits, Canada	7

## 2. The Year in Review

Table 3. AAVSO Observers, 2010–2011, 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>
DPV	09	P. Dubovsky, Slovakia	5120	GAJ		J. Garcia, Argentina	1
DAJB		A. Dumbleton, England	5	GAA		P. Garey, IL	27
DMO	01	M. Dumont, France	739	GARA		A. Garg, MA	9
CLW01		D. Durig, TN	2	GKI		K. Geary, Ireland	16
DMPA		M. Durkin, NY	49	GCLA		C. Garvey, MA	10
DFEA		F. Dutton, MI	69	GJCA		J. Geary, TX	105
DKS		S. Dvorak, FL	71334	GQR		R. Gherase, Romania	4
DGP		G. Dyck, MA	664	GHI	18	M. Ghiri, Italy	20
EARA		A. Ede, VT	10	GAO		A. Giambersio, Italy	1
EHEA		H. Eggenstein, Germany	51	JMG		M. Gibaja, Spain	1
ERJB		R. Egger, MA	10	GGU	04	G. Gilein, Netherlands	362
EMA		M. Eichenberger, Switzerland	34	GKIA		K. Gillies, MA	6
ELKA		L. Eilbert, MA	7	GSEB		S. Girard, OK	389
ESAA		S. El-Abboud, MA	5	GSAA		S. Glass, MA	6
EM		G. Emerson, NM	703	GNAA		N. Glassman, MA	8
ERB		R. Eramia, WA	37	GCMA		C. Glazier, IL	10
EJO	03	J. Erdei, Hungary	1385	GMV		M. Glennon, Ireland	2
EEY		E. Erdelyi, CA	1599	GZN		A. Glez-Herrera, Spain	2625
ERJA		R. Erhardt-Ohren, IL	7	GLG		G. Gliba, MD	2
EJC		J. Escudero, Spain	5	GKAA		K. Glick, MA	6
EEDA		E. Ethan, MA	8	GCHA		C. Glowinski, Germany	44
ERW	14	R. Evans, New Zealand	24	GFB	31	W. Goff, CA	11601
EJDA		J. Evelan, AZ	3	GMJA		M. Goldstein, MA	6
FSU		S. Fanutti, Canada	29	GNGA		N. Gollin, MA	5
FEO	03	E. Farkas, Hungary	19	GLFA		L. Gomes, Brazil	12
FKDA		K. Farrell, FL	10	GOT	06	T. Gomez, Spain	995
FFAA		F. Fedeli, Italy	1	GED		E. Goncalves, Brazil	13
RCFA		C. Fernandez Rivero, Spain	254	GNZ		G. Gonzalez, PA	7
FRF	03	R. Fidirich, Hungary	1616	GVG		V. Gonzalez Garcia, Spain	1
FMZ		M. Fitzgerald, TX	44	GDJA		D. Gorney, AZ	28
FARA		A. Flores, MA	7	GSE		S. Gouaichault, France	7
FLE		L. Florin, Romania	32	GENB		E. Gozzoli, Italy	14
FLEB		L. Florsheim, MA	7	GHN		J. Graham, OH	13
FJUA		J. Flumenbaum, MA	8	GKA		K. Graham, IL	25716
FDA	03	A. Fodor, Hungary	87	GMAA		M. Granado Sanchez-Toscano, Spain	15
FBZ	03	B. Fodor, Hungary	10	GNJ		J. Green, Canada	2
FSE	18	S. Foglia, Italy	27	GJOA		J. Greening, Canada	19
FMR		M. Fonovich, Croatia	5715	GDY	27	D. Grey, Canada	6
FEWA		E. Forsell, MA	4	GMKA		M. Griffiths, England	23
SNH01		K. Fortak, Germany	1043	GTZ		T. Grzybowski, NM	153
FJQ		J. Foster, CA	5172	GCO		C. Gualdoni, Italy	1809
FXJ		J. Fox, NM	170	GHEA		H. Guanjie, China	2
FSJA		S. Franks, CA	6	GERA		E. Guido, Italy	10
FBN	10	B. Fraser, South Africa	24	GPR		P. Guilbault, RI	25
FMSA		M. Freedman, CT	9	GSTA		S. Gupta, MA	8
FDWA		D. Frey, MA	4	GPSA		P. Gurny, MD	5
FML	04	M. Fridlund, Netherlands	3	GPIA		P. Guzik, Poland	17
FCHA		C. Froeschlin, Germany	17	GGX	01	G. Guzman, France	238
FBMA		B. Fruchter, MA	13	HDSA		D. Haas, MA	6
FGIA		G. Frustaci, Italy	46	HNIA		N. Habic, Slovenia	13
FMG		G. Fugman, NE	83	HCS	03	C. Hadhazi, Hungary	2196
FFAB		F. Fujiwara, Brazil	37	HDH	03	S. Hadhazi, Hungary	485
FRTA		R. Fuller, TX	91	HWDA		W. Haeger, IL	12
FSAA		S. Fung, MA	12	HTY		T. Hager, CT	34
GHT	27	G. Gaherty, Canada	56	HKB		B. Hakes, IL	135
GGL	18	G. Galli, Italy	33	HCU		C. Halbrook, GA	1
GTN		T. Gandet, AZ	21	HJW		J. Hall, CO	40
GNJA		N. Gannon, NY	1	HMB	05	F. Hamsch, Belgium	34212
GJPA		J. Garbose, MA	6	HBJA		B. Hancock, MS	7

Table 3. AAVSO Observers, 2010–2011, 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>
HPL		P. Hansen, Denmark	64	JSP		S. James, Australia	155
HSMA		S. Hansen, MA	8	JZO	03	Z. Jankovics, Hungary	582
HDC		D. Harper, NC	23	JDG		D. Janky, WA	2
HBB		B. Harris, FL	234	JGRA		G. Jenkins, DC	15
HBRA		B. Harris, MA	6	JMIB		M. Jian, China	3
HMQ		M. Harris, GA	12	JCHA		C. Jiaravanon, MA	10
HHU	05	H. Hautecler, Belgium	450	JGE	06	G. Jimenez, Spain	47
HKY	27	K. Hay, Canada	1	JOG		G. Johnson, MD	58
HTIA		T. Hayes, CT	6	RPB		P. Johnson, GA	3
HAB		R. Hays, IL	784	JRA		R. Johnson, MN	21
HSEA		S. Heath Howe, MA	11	JA	14	A. Jones, New Zealand	513
HTHA		T. Hebbeker, Belgium	1	JFEA		F. Jones, MA	4
HQA		A. Henden, MA	4307	JJI		J. Jones, OR	29008
HND		R. Henderson, England	1545	JAZ	03	A. Juhasz, Hungary	379
HELB		E. Heneghan, MA	8	JLZ	03	L. Juhasz, Hungary	226
HMJA		M. Hensley, KY	1	KRAC		R. Kadish, MA	6
HGO		G. Henson, TN	23	KPK		P. Kalajian, ME	443
HCW		C. Hergenrother, AZ	20	KCI	03	C. Kalup, Hungary	14
HREA		R. Herman, MA	6	KFAA		F. Kamisli, MA	8
HMV		M. Hessom, CA	126	KAM	02	A. Kammerer, Germany	14
HNDA		N. Hewitt, England	34	KSTA		S. Kang, MA	8
HJJ		J. Hewlett, CA	6	KTU		T. Kantola, Finland	1243
HEY	05	B. Heyndrickx, Belgium	25	KMO		M. Kardasis, Greece	107
HIM		W. Hill, MA	6	KSF		S. Karge, Germany	252
HJS		J. Hissong, OH	2	KMAB		M. Karklin Fontana, Brazil	32
HELA		E. Ho, MA	5	KTHA	19	T. Karlsson, Sweden	1918
HMAA		M. Hochhauser, MA	14	KPAB		P. Kastritis, MA	5
HEK	11	E. Hoeg, Denmark	96	KLUA		L. Katz, NY	7
HFO	01	G. Hoffer, Germany	77	KBJ		R. Kaufman, Australia	335
HALA		A. Hoffman, MA	8	KMQ	06	M. Kearns, Spain	21
HDF		D. Hohman, NY	69	KKEA		K. Kelso, AL	5
HOO	04	G. Hoogeveen, Netherlands	1	KGRA		G. Kerr, MA	5
HJG		J. Horne, CA	162	KSH	29	S. Kerr, Australia	55
HJZ		J. Horne, CA	824	KSZ	03	S. Keszthelyi, Hungary	444
HJUB		J. Hose	1	KJMA		J. Ketchum, MO	1
HDAA		D. Houser, PA	39	KROA		R. Keyser, TX	42
HSP	14	S. Hovell, New Zealand	852	KIY		A. Kilin, Russia	437
HOA		A. Howell, FL	503	KEJA		E. Kim, CA	5
HSW		S. Howerton, KS	70	KHAA		H. Kim, MA	7
HGRA		G. Hubbell, VA	2	KKYA		K. Kim, MA	8
HGSA		G. Huddart, MA	6	KJAA		J. King, MA	3
HRAA		R. Huq, MA	7	KRAA		R. King, VA	468
HDU		D. Hurdis, RI	1781	KRB		R. King, MN	582
HUR	20	G. Hurst, England	1218	KQR		R. Kinne, MA	8
HTN		K. Hutton, CA	13	KSJ	27	S. Kinsella, Canada	45
HUZ		R. Huziak, Canada	151	KLSA		L. Kirkland, MO	6
HUI	03	S. Huzina, Hungary	5	KIL	03	L. Kiss, Australia	21
ILE	03	E. Illes, Hungary	601	KPC		P. Klages, England	1
ICAA		C. Incledon, MA	10	KJFA		J. Kleban, MD	7
IRO	03	R. Istvan, Hungary	1	KKAA		K. Klindt-Jensen, Denmark	369
JTAA		T. Jaarsma, MA	106	KMAA		M. Kline, MA	6
JPM	10	P. Jacobs, South Africa	48	KZAA		Z. Kline, MA	6
JMA		M. Jacquesson, France	19	KGE	08	G. Klingenberg, Norway	716
JTP	01	P. Jacquet, France	172	KGT		G. Knight, ME	14
JAT	03	T. Jakabfi, Hungary	33	KSP		S. Knight, ME	95
JTAB		T. Jakabfi, Hungary	28	KJAB		J. Ko, MA	6
JDAA		D. Jakubek, Poland	2	KBSA		B. Kochman, MA	1
JNDA		N. James, England	595	KLO		L. Kocsmaros, Serbia	663
JM		R. James, NM	96949	KVAA		V. Koehler, MA	7

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Table 3. AAVSO Observers, 2010–2011, cont.\*

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KRV		R. Koff, CO	8050	LMI		M. Lierl, KY	6
KKT	03	K. Kohler, Hungary	37	LCBA		C. Limmer, MA	7
KRS		R. Kolman, IL	2070	LPAA		P. Linder, Sweden	1
KMA		M. Komorous, Canada	2233	LMK		M. Linnolt, HI	1162
KTOA		T. Kooij, Netherlands	12	LKDA		K. Lipman, MA	8
KNK	03	K. Korei-Nagy, Hungary	1	LCO		C. Littlefield, NY	6172
KDAA		D. Korniak, Poland	3	LSZ		S. Liu, China	1
KCS	03	C. Koros, Hungary	24	LYZ		Y. Liu, CA	2
KJAC		J. Kos, Slovenia	29	LLZ	03	L. Liziczai, Hungary	27
KOS	03	A. Kosa-Kiss, Romania	4871	LTE	20	T. Lloyd Evans, England	1965
KLX		L. Koscianski, MD	1	LOB	06	J. Lobo Rodriguez, Spain	84
KPAA		P. Kottaridis, Greece	18	LRD		D. Loring, UT	1600
KNIA		N. Kourounis, Greece	13	LAJA		A. Loshkajian, MA	7
KVI	03	I. Kovacs, Hungary	45	LDS	20	D. Loughney, England	57
KAF	03	A. Kovacs, Hungary	597	LBG		G. Lubcke, WI	4169
KASA		A. Kreshtool, DE	8	LSWA		S. Luk, MA	7
KESA		E. Kreshtool, DE	8	LCHA		C. Luo, MA	11
KJOA		J. Kribbel, Austria	1	LMJ	17	M. Luostarinen, Finland	2079
KWO	02	W. Kriebel, Germany	1351	LWYA		W. Lyoo, MA	6
KIS	02	G. Krisch, Germany	1724	MJEA		J. , MO	48
KARB		A. Krishnamurthy, MA	8	MSTA		S. MacDonald-Brown, England	107
KGEA		G. Kristiansen, England	78	MDW	27	W. MacDonald, Canada	9
KRDA		R. Kroll, MA	5	MJOA		J. MacLennan, MA	12
KTZ		T. Krzyt, Poland	679	MMRT		M. Magris, Italy	3
KBA		B. Kubiak, Poland	456	MYB	03	M. Magyari, Hungary	11
KUC	01	S. Kuchto, France	1530	MMKB		M. Maher, MA	10
KSRA		S. Kupferberg, MA	6	MPEA		P. Mahoney, MA	9
KJTA		J. Kupras, Poland	4	MALB		A. Maidik, Ukraine	126
KSQ		S. Kuznetsov, Russia	808	MFA	09	A. Maidyk, Ukraine	4
KJKA		J. Kwon, MA	11	MHE	02	H. Maier, Germany	1
LCR	15	C. Labordena, Spain	744	MLI		L. Maisler, NY	34
LHS		H. Lacombe, Canada	55	MYN		A. Majczyna, Poland	20
LMU		M. Lahteenmaki, Finland	3	MNAV		D. Majors, CA	86
LSA	17	S. Lahtinen, Finland	16	MVO	17	V. Makela, Finland	594
LPB		P. Lake, Australia	772	MJHN	20	J. Mallett, England	3
LDEA		D. Lambert, NY	6	MESB	17	E. Mangeloja, Finland	18
LPEA		P. Lancaster, Australia	11	MUQ		D. Manousos, Greece	1
LAL		A. Landolt, LA	28	MKE		B. Manske, WI	405
LDJ	27	D. Lane, Canada	2132	MGK		G. Maravelias, Greece	44
LJOB		J. Lapin, MA	8	MNRA		N. Marchand, MA	6
LMF	13	M. Lara, Brazil	8	MXI	18	A. Marchini, Italy	273
LMJB		M. Larsen-Strecker, MA	10	MFRA		F. Marcoux, Canada	17
LTM		T. Laskowski, IN	20	MIOA		I. Marinescu, Canada	2
LMAA		M. Lauzikas, Lithuania	4	MFB	01	F. Mariuzza, Italy	291
LZT		T. Lazuka, IL	659	MTON	20	T. Markham, England	4500
LEB	01	R. Lebert, France	1	MKW		A. Markiewicz, Poland	75
LALA		A. Lee, MA	7	MXS	03	S. Marosi, Hungary	132
LJAA		J. Lee, MA	8	MANG		A. Marrero, Spain	46
LWOA		W. Lee, MA	8	MNIB		N. Marshall, MA	5
LMT		M. Legutko, Poland	121	MMN	18	M. Martignoni, Italy	876
LDA		D. Lehman, MD	1	MCDA		C. Martin, AZ	4
LCLA		C. Lemaire, Germany	172	MCHR		C. Martin, CO	151
LPD	01	P. Lemarchand, France	25	UIS01		J. Martin, IL	20
LMA		D. Lemay, Canada	1	MMG		M. Martinengo, Italy	672
LMOA		M. Lerner, NY	7	MAFA		A. Martinez, CA	5
LMSA		M. Lesser, NY	6	MMIA		M. Martinez, VT	7
LEV		A. Leveque, CA	132	MTHB		T. Martinez, MA	10
LVE		D. Levy, AZ	119	MVIA		V. Marttila, Finland	2
LXIA		X. Li, NJ	14	MBS		B. Massey, CA	52



Table 3. AAVSO Observers, 2010–2011, 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>
MIDA	I.	Massey, England	1	MUY	05	E. Muylaert, Belgium	2309
MLOA	L.	Masterson, VT	10	MGAR	G.	Myers, WA	7
MTH	H.	Matsuyama, Australia	8224	MGW	G.	Myers, CA	1372
MTM	M.	Mattei, MA	13	NNNA	N.	Naftali, MA	7
MPR	P.	Maurer, Germany	423	NJT	03	J. Nagy, Hungary	5
MBE	B.	McCandless, MD	14	NRIA	R.	Naik, WA	9
MQS	S.	McCann, England	1	NDQ	01	D. Naillon, France	238
MEKA	E.	McCarthy, MA	8	NLX	P.	Nelson, Australia	10601
MJAB	J.	McCullough, Australia	33	NLZ	03	L. Nemeth, Hungary	112
MUE	R.	McDaniel, TX	1781	NMGA	M.	Nemetz, TX	9
MDP	27	P. McDonald, Canada	972	NAVA	A.	Nguyen, MA	11
MGH	20	H. McGee, England	29	NMR	M.	Nicholson, England	369
MMAC	M.	McKinnon, NY	6	NOT	O.	Nickel, Germany	15
MJTA	J.	McLaughlin, CA	6	NHS	11	H. Nielsen, Denmark	5
MWVA	W.	McMain, MA	2	NCPA	C.	Nilson, CT	9
MMAE	M.	McNeely, IN	486	NJLA	J.	Noack, MA	9
MED	20	K. Medway, England	1015	NCH	C.	Norris, TX	106
MJFA	J.	Mee, MA	8	NLSA	L.	Novak, MA	7
MFR	F.	Melillo, NY	17	NRU	R.	Novak, Czech Republic	115
MJAC	J.	Mendal, MA	7	NAO	A.	Novichonok, Russia	81
MFAB	F.	Mendez, FL	9	NKL	K.	Nuber, Germany	1
MBCA	B.	Menendez, MA	8	NDRA	D.	Nunez, MA	9
MZU	J.	Menendez, Spain	1	NAN	A.	Nygaard, England	28
MZK	K.	Menzies, MA	17854	OCX	L.	O'Connor, MA	42
MLIA	L.	Merchan, FL	5	OCN	S.	O'Connor, Bermuda	48
MDEN	D.	Merrill, CA	123	OGJA	G.	O'Flaherty, Ireland	25
MHEA	H.	Mikuz, Slovenia	9	ONJ	J.	O'Neill, Ireland	125
MBAA	B.	Miller, CA	3	OSN	S.	Oatney, KS	2
MIW	20	I. Miller, England	25913	OANA	A.	Oberley, ME	3
MMGA	M.	Miller, TN	1	OLUA	L.	Ocampo, IL	9
MADA	A.	Mills, Canada	24	OAS	A.	Odasso, Italy	194
MMEA	M.	Millward, Australia	21	OALA	02	A. Oertlin, Germany	450
MNAA	N.	Milstein, CA	9	OYE	Y.	Ogmen, Cyprus	8413
MTIA	T.	Mitropoulos, MA	11	OJMA	J.	Ojanpera, Finland	20
MZS	03	A. Mizser, Hungary	259	OAR	17	A. Oksanen, Finland	18218
MCE	E.	Mochizuki, Japan	16	OKEA	K.	Olson, MA	6
MRV	R.	Modic, OH	131	ORGA	R.	Oltion, WY	2
MHH	J.	Moehlmann, PA	866	OAD	A.	Ormsby, MI	128
MQE	K.	Mogul, GA	60	OADA	A.	Ortiz, NY	13
MOD	D.	Mohrbacher, OH	24	OPR	P.	Ossowski, Poland	21
MWLA	W.	Mokwa, Poland	1	OCGA	C.	Osteen, CO	6
MHC	12	C. Montalvo, Peru	1	OSE	S.	Otero, Argentina	7
MDPA	D.	Monteiro, Portugal	2	OSJ	J.	Otero Saiz, Spain	6
MTHC	T.	Moon, MA	9	OCR	05	C. Otten, Belgium	141
MAMC	A.	Moore, CT	11	OEH	E.	Ozturk, Turkey	4
MJOH	20	J. Moore, England	287	PLA	13	A. Padilla Filho, Brazil	2
MEV	01	E. Morelle, France	57899	PTHA	T.	Page, CA	6
MCBA	C.	Morford, NC	57	PLN	02	L. Pagel, Germany	16416
MDJA	D.	Moriarty, Australia	4091	PJLA	J.	Pakula, MA	6
MJAD	J.	Morris, MA	8	PLP	L.	Palazzi, Italy	1036
MOW	W.	Morrison, Canada	4883	PCHB	C.	Palmer, WY	6
MKAA	K.	Moser, MA	7	PBC	B.	Paolo, Italy	210
MCEA	C.	Mostertz, MA	12	PPS	03	S. Papp, Hungary	3185
MMX	M.	Motta, MA	82	PREA	R.	Paret, France	6
MPS	27	P. Mozal, Canada	4	PCN	C.	Parrinello, IL	4
MMH	M.	Muciek, Poland	14	PTQ	T.	Parson, MN	2
MDU	D.	Mulinski, Poland	39	PDIA	D.	Paschos, Greece	1
MBQ	B.	Mullin, MN	9	PCG	J.	Pascual Gutierrez, Spain	2
MIAA	I.	Munro, MA	8	PKV	K.	Paxson, TX	2133

## 2. The Year in Review

Table 3. AAVSO Observers, 2010–2011, 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>
PEX	14	A. Pearce, Australia	76	OJR		J. Ripero Osorio, Spain	1739
PBT		R. Pearson, VA	16	RWAA		W. Riva, Italy	3
PEI	11	E. Pedersen, Denmark	324	RNDA		N. Rivard, Canada	16
PEG	01	C. Peguet, France	867	RIV		M. Rivera, Italy	357
PWD		W. Pellerin, TX	136	RLJA		L. Robert, France	8
PDRA		D. Perez, Spain	15	REE		E. Robinson, England	32
PJVA		J. Perez, Spain	13	RDAA		D. Rodriguez, Spain	4
PDAB		D. Pernick, MA	5	RMU	06	M. Rodriguez Marco, Spain	4790
PGPA		G. Petkov, Bulgaria	19	ROE		J. Roe, MO	4332
PVA	27	V. Petriew, Canada	13	RMAC		M. Roe, MA	9
PRP		R. Pickard, Australia	1	RRO		R. Rogge, Germany	4
PXR	20	R. Pickard, England	6946	RKAA		K. Rogstad, VT	14
PROC		R. Pieri, France	83	RWNA		W. Rose, MA	6
PDKA		D. Pienkowski, Poland	33	RMAB		M. Rosicarelli, Italy	9
PLQ	01	L. Pinatelle, France	122	RCWA		C. Ross, MA	6
PEMA		E. Pinon, MA	17	ROG		G. Ross, MI	106
PIJ	03	J. Piriti, Hungary	1679	RJJA		J. Ross, NC	21
PLU		L. Pirozzi, Italy	7	RGN		G. Rossi, Italy	1
PPL		P. Plante, OH	181	REHA		E. Rothstein, MA	6
PHN	04	H. Pleijsier, Netherlands	5	RJNA		J. Rousseau, MA	7
PBMA		B. Plugis, MA	8	RAFA		A. Rousell, Canada	5
PAW		A. Plummer, Australia	2885	RCJA		C. Rousell, Canada	10
AST	12	R. Podesta, Argentina	15	RBRA		B. Rowe, MA	6
PCHA		C. Poh, MA	5	RR		R. Royer, CA	87
PRX		R. Poklar, AZ	5026	ART		R. Rubio Albacete, Spain	4
PSOA		S. Poma, MA	13	RJV		J. Ruiz Fernandez, Spain	1399
PMV		M. Popescu, Romania	7	RNL		N. Ruocco, Italy	180
PDM		A. Popowicz, Poland	8	RMDA		M. Russiani, Italy	10
PRV		R. Potter, MI	5	RTH		T. Rutherford, TN	92
PSEB		S. Pouliot, Canada	545	RZM		M. Rzepka, Poland	1124
POX		M. Poxon, England	191	SHAB		H. Sabanci, MA	8
PYG		G. Poyner, England	8435	SJD		J. Sabia, PA	7
PJCA		J. Preston, MA	9	SRIC		R. Sabo, MT	40592
PAH		A. Price, MA	14	SJQ		A. Sajtz, Romania	851
PRT		R. Price, Australia	14	STAA		T. Sakamoto, MD	56
PSIA		S. Prieto Saavedra, Spain	6	SSU		S. Sakuma, Japan	1057
PAI		A. Prokopovich, Belarus	11	SDAA		D. Sala Tapias, Spain	18
PMB		M. Prokosch, TX	3	SJAV		J. Salas, Spain	3
PDQ	01	D. Proust, France	44	SMRK		M. Salisbury, England	360
PUJ	06	F. Pujol-Clapes, Spain	599	SQL	26	R. Salvo, Uruguay	31
PKU		K. Pukero, Finland	114	SAH		G. Samolyk, WI	13254
PHG		H. Purucker, Germany	170	SPEA		P. Sanchez, Nicaragua	24
QYIA		Y. Qiu, China	29	SMDC		M. Sanda, MA	5
QCHA		C. Quesada, AZ	3	SJLA		J. Sanduski, MA	6
QFI	05	F. Questier, Belgium	2	SGE	27	G. Sarty, Canada	4
RKE	02	K. Raetz, Germany	470	SVA		A. Saw, Australia	384
RINA		I. Rait, MA	7	SDAV		D. Scanlan, England	128
RCFB		C. Ramos, MA	8	SRIB		R. Scarpa, Spain	5
RBMA		B. Read, MA	10	SCLA		C. Schachter, NY	7
RAJB		A. Redmond, MA	10	SDY	02	D. Scharnhorst, Germany	476
REP	24	P. Reinhard, Austria	431	SFS		S. Schiff, VA	18
RKZ	13	K. Resende, Brazil	1	SRBR		R. Schippers, Netherlands	459
RMLA		M. Restiano, MA	6	SPK	01	P. Schmeer, Germany	1
RKL	02	K. Retzlaff, Germany	1	SPCA		P. Schmidt, MA	11
RLUA		L. Ribe, Spain	41	SREA		R. Schoenbrun, MA	8
RJG		J. Ribeiro, Portugal	433	SAQ	04	A. Scholten, Netherlands	3
RHJ		J. Richmond, MI	66	SFRA		F. Schorr, GA	422
RHM		M. Richmond, NY	75	SGLF		G. Schrader, Australia	41
RIJ		S. Riley, CT	6	SYU	02	M. Schubert, Germany	1334

Table 3. AAVSO Observers, 2010–2011, 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>
SAND	02	A. Schumann, Germany	443	SDB		D. Starkey, IN	1605
SJEA	01	J. Sciolla, France	430	SPET		P. Starr, Australia	6963
SRYA	27	R. Scott, Canada	23	SJAT		J. Starzomski, Poland	1058
SMIA		M. Sednaoui, MA	9	STAS		T. Stebler, Switzerland	34
SDMA		D. Selmo, Brazil	10	SELA		E. Stecher, MA	6
SMJB		M. Senday, Brazil	10	SYO		T. Steck, IN	20
SSSA		S. Sepetiba, Brazil	3	STI		P. Steffey, FL	576
STVA		T. Sepetiba, Brazil	3	SWIL		W. Stein, NM	18474
SIV		I. Sergey, Belarus	352	SVR		R. Stencil, CO	13
SJMB		J. Sessler, MA	6	SET		C. Stephan, FL	1456
SFJA		F. Sevilla, Spain	3	SABA		A. Stevens, MA	10
SSTA	27	S. Shadick, Canada	514	SMDB		M. Stewart, KS	25
SSHA		S. Shaffer, WY	857	SRB		R. Stine, CA	1011
SHS		S. Sharpe, Canada	2610	SOX		C. Stockdale, Australia	15015
SDP		D. Sharples, NY	8	SPSA		P. Stoj, Poland	8
SERB		E. Shaw, PA	11	SMRA		M. Stolzer, MA	8
SFY	20	J. Shears, England	3516	SWAA		W. Stonefield, MA	8
SHW		W. Sherman, TX	2	SDI	20	D. Storey, England	33
SLH		L. Shotter, PA	769	SFU	29	M. Streamer, Australia	6031
SGQ		C. Sigismondi, Italy	102	SNJ		N. Stritof, Slovenia	80
SRAF		R. Sikora, Poland	1	SMAE		M. Stuart, England	1
SBAB		B. Silberstein, MA	9	SRX	14	R. Stubbings, Australia	3895
SPAO	18	P. Siliprandi, Italy	533	SUK		M. Stuka, CA	11
SMSA		M. Silva, Brazil	1	SAXA		A. Suarez, MA	10
SBN	13	A. Silva Barros, Brazil	31	SUQ		A. Sucker, Germany	7
SNE		N. Simmons, WI	4082	SUS	02	D. Suessmann, Germany	410
SXN		M. Simonsen, MI	7174	TSUA		T. Sukumaran, India	2
SLIA		L. Sindelar, Czech Republic	26	STIA		T. Sullivan, MO	26
SANG		A. Sing, Philippines	349	SJAR		J. Suomela, Finland	1704
SPAB		P. Singh, India	1	SCHA		C. Surum, MA	9
STOC		T. Sitek, Czech Republic	31	SRLA		R. Sutter, AZ	15
SGOR		G. Sjoberg, MA	10322	SBOB		B. Sutuntivorakoon, MA	3
SDN		D. Slauson, IA	22	SBIA		B. Swalwell, England	5
SEVG		E. Smirnov, Russia	7	SWV		D. Swann, TX	353
SMI		A. Smith, England	16	SSW		S. Swierczynski, Poland	269
SBAD		B. Smith, England	18	SKIT	03	K. Szabo, Hungary	4
SCAA		C. Smith, MA	6	SFX	03	T. Szalai, Hungary	1
SHA		H. Smith, MI	300	SZX	03	Z. Szalma, Hungary	1
SDCA		D. Smith, NY	60	SAO	03	A. Szauer, Hungary	97
SJE		J. Smith, CA	110	SXB		M. Szczerba, Poland	2
SSTB		S. Smith, CA	77	TUO		U. Tagliaferri, Italy	111
SLEE		L. Smojver, WA	13	TTG		T. Tan, Australia	7423
SX		L. Snyder, NV	21763	TCEB		C. Tapia Ayuga, Spain	7
SJTB		J. Sobo, NJ	10	TJOB		J. Tapioles, Spain	36
STAK		T. Soejima, Japan	12	TNDA		N. Tarrh, MA	5
SKA	16	K. Sokolovsky, Germany	32	TSZ	03	S. Teichner, Hungary	309
SJAA		J. Sokolski, MA	11	TJV		J. Temprano, Spain	19
SBX		A. Sonka, Romania	9	TCI	03	C. Tepliczky, Hungary	27
SGYO	03	G. Soponyai, Hungary	519	TPS	03	I. Tepliczky, Hungary	1597
SYP		P. Soron, Canada	15	TDN		D. Terpstra, AZ	70
SOW	17	J. Sorvari, Finland	128	TTU		T. Tezel, Turkey	19
SJZ		J. Speil, Poland	2193	TGMA		G. Thomas, MA	7
SSJA		S. Spielbusch, AZ	151	T5		G. Thompson, NH	8
SDAC		D. Spira, MD	8	GPJ		P. Thompson, CA	7
SC	27	C. Spratt, Canada	182	TRDA		R. Thrall III, PA	13
SXR	03	M. Sragner, Hungary	17	TIA	03	A. Timar, Hungary	294
SBL	05	B. Staels, Belgium	1085	TBRA		B. Tobias, TX	2
SVAE		V. Stanimirov, Bulgaria	15	TRL		R. Togni, AR	27
STR		R. Stanton, CA	25	TBRB		B. Toman, LA	1

## 2. The Year in Review

Table 3. AAVSO Observers, 2010–2011, cont.\*

Code	Org.	Name	No. Obs.	Code	Org.	Name	No. Obs.
TRE		R. Tomlin, IL	91461	WCB		C. Webster, PA	333
TWP		W. Toomey, MA	2	WGAA		G. Webster, Canada	4
TVT		V. Tramazzo, AZ	1	WPT	10	P. Wedepohl, South Africa	43
TFR		F. Travaglino, Italy	1	WPU		P. Weeks, CA	90
TWA		W. Travis, MA	6	WRKA		R. Weisenburger, AZ	2
TRF		C. Trefzger, Switzerland	29	WCAA		C. Welch, NJ	6
TALB		A. Troncoso, MA	9	WKFA		K. Weller, MA	7
TDW		D. Trowbridge, WA	200	WDZ		D. Wells, TX	1142
TRX		R. Truta, Romania	3	WWL		W. Wells, OK	3
TMHA		M. Tsang, Canada	8	WKL	15	K. Wenzel, Germany	789
TSJ		S. Tsuji, Japan	12	WRP		R. Wheeler, OK	1
TYS		R. Tyson, NY	659	WDO		D. Whelan, RI	1
UAN	03	A. Uhrin, Hungary	12	WWIA		W. Whitehead, NJ	46
UJHA		J. Ulowetz, IL	10703	WBN		B. Widla, Poland	137
UPIA		P. Us, MA	13	WTHA		T. Will, Germany	10
VMAB		M. Valatkaite, MA	8	WAWB		A. Williams, MA	8
BVE	04	E. Van Ballegoij, Netherlands	518	WI		D. Williams, IN	1
VBR		H. Van Bommel, Canada	22	WIG		G. Williams, OH	3
VDF		F. Van den Abbeel, Belgium	1	WPX	29	P. Williams, Australia	3227
VBH	05	H. Vandendruaene, Belgium	12	WLP	05	P. Wils, Belgium	185
VLYA		L. Van Rooijen-McCullough, Netherlands	52	WWJ		B. Wilson, England	1023
VLE	04	J. Van T'Leven, Netherlands	1	WJPA		J. Wilson, MA	7
VUG	04	G. Van Uden, Netherlands	181	WBH		R. Wilson, AZ	122
VWS	05	J. Van Wassenhove, Belgium	1384	WSN		T. Wilson, WV	1205
VJCA		J. Vannini, Nicaragua	5	WAS	02	A. Winkler, Germany	65
VSD	05	D. Vansteelant, Belgium	4	WBLA		B. Wise, CA	20
VKN		K. Vardijan, Croatia	5	WEMA		E. Wise, NJ	6
VED	01	P. Vedrenne, France	4940	WKM		M. Wiskirken, WA	2
VCLA		C. Veliz, VT	17	WMAA		M. Witko, NY	6
VDI	03	D. Vereb, Hungary	6	WGJA		G. Witz, CT	6
VIA	01	J. Vialle, France	175	WBS		R. Wobus, MD	8
VMAA		M. Vieira, Brazil	1	WJSB		J. Wolff, MA	7
VBI	03	B. Vigh, Hungary	4	WGI	02	G. Wollenhaupt, Germany	30
VBRA		B. Vincent, MA	6	WGO		G. Wood, NC	21
FVAA		F. Violat-Bordonau, Spain	12	WVR		R. Wood, TX	50
VJA	17	J. Virtanen, Finland	4430	WUB	04	E. Wubbena, Netherlands	290
VGRA		G. Vitale, MA	14	WUN	02	E. Wunder, Germany	39
VGK		G. Vithoukias, Greece	1314	WCG		C. Wyatt, Australia	14
VAQA		A. Vodniza, Colombia	24	XWEA		W. Xiong, MA	6
VFK	02	F. Vohla, Germany	4943	XWE		W. Xu, China	1
VOL		W. Vollmann, Austria	386	YALA		A. Yanez, MA	16
VAIA		A. Vorontseva, Ukraine	28	YMAA		M. Yanover, MA	8
VSA		S. Vuorinen, Finland	1	YBA		B. Young, OK	255
WLY		L. Wade, MS	856	YDV		D. Young, MA	118
WROA		R. Wahlstrom, Sweden	123	YON		R. Young, PA	8
WNBA		N. Wakefield, South Africa	21	ZFRA		F. Zecchin, France	98
WGR		G. Walker, MA	31	ZPA		P. Zeller, IN	166
WEVA		E. Wallace, MA	6	ZXUA		X. Zheng, China	11
WRIA		R. Wallheimer, MA	10	ZXIA		X. Zhu, WI	5
WBY		B. Walter, TX	2	ZTO	02	T. Zimmermann, Germany	18
WJX		J. Wan, Australia	1	ZPAA		P. Ziolek, MA	11
WYUB		Y. Wang, MA	7	ZALA		A. Zonta, Germany	73
WYUA		Y. Wang, MA	8	ZAMA		A. Zuckerman, MA	10
WGE		G. Ward, WV	10	ZJIB		J. Zuniga, MA	7
WAU		A. Wargin, Poland	8	ZGA	03	G. Zvara, Hungary	2
WDC		D. Watts, MS	108				

\* Totals reflect observations made during fiscal 2010–2011 and do not include historical data (data preceding fiscal 2010–2011) submitted during fiscal 2010–2011.

Table 3. AAVSO Observers, 2010–2011, cont.

These codes, which appear in the Table (AAVSO Observers 2010–2011), 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)
- 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 Iberoamericana de Astronomia (South America)
- 13 Rede de Astronomia Observacional (Brazil)
- 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)
- 19 Svensk Amator Astronomisk Förening, Variabelsektionen (Sweden)
- 20 British Astronomical Association, Variable Star Section
- 24 Astronomischer Jugendclub (Austria)
- 26 Red de Observadores (Montevideo, Uruguay)
- 27 Royal Astronomical Society of Canada
- 29 Variable Stars South (New Zealand)
- 31 Center for Backyard Astronomy

Table 4. Observation statistics for fiscal year 2010–2011.\*

<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	85900	7.8	928
1000–1999	61067	5.5	45
2000–2999	44417	4	19
3000–3999	20340	1.8	6
4000–4999	63074	5.7	14
5000–5999	26617	2.4	5
6000–6999	26112	2.3	4
7000–7999	29336	2.6	4
8000–8999	33122	3	4
9000–9999	0	0	0
10000+	746655	68	26

\* Totals reflect observations made during fiscal 2010–2011 and do not include historical data (data preceding fiscal 2010–2011) submitted during fiscal 2010–2011.