The American Association of Variable Star Observers

Number 35 / December 2007

AAVSO Newsletter

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From the Director's Desk

Arne A. Henden

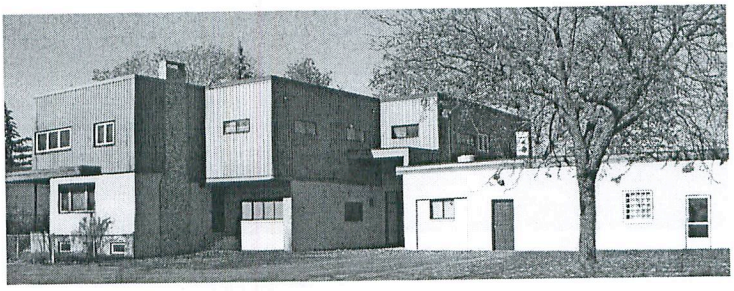
I am now in my third year as AAVSO Director. This is pretty amazing – the time has really flown. I mentioned in my first Director's report in Las Cruces that changes would be slow and measured. Looking back on these past two years has shown that changes have occurred, and not exactly slowly. Good thing I didn't try to change everything immediately!

My goals from the beginning have been: to improve our support of our observers; to make the AAVSO more prominent to the professional variable-star community; to make our staff more efficient; and to plan for future growth of our organization. Events of the past 6-7 months show how progress has been made towards those goals.

The beta release of the Variable Star Plotter (VSP) was made just prior to the Spring meeting. The VSP plotting engine has been ready for quite some time, but we needed to populate its internal database with all of the variable stars and sequence stars that were present on the existing charts before it was functional enough for the membership to use. That happened recently, so the beta release is in good agreement with our current charts, and due to its increased functionality, should be used in preference to the chart archive. Improvements will be made in due course, but as this is a volunteer effort, give the Sequence Team and VSP developers some slack if they don't get to your favorite field immediately. As I've said on the discussion group, we owe a big round of applause to the many people involved in this effort.

What does the observer gain with VSP? First, you can customize your charts in many ways, such as scale, orientation, dots or DSS image, and tables of the photometry. Obviously, such customization helps all observers – we are not targeting just CCD or just visual observers. Next, as we improve sequences, that table of photometry for each field will help the CCD observer in his/her analysis and reporting. Finally, you will get nearly instantaneous charts of new objects like novae, and will be able to create charts of objects not currently on the AAVSO program. For headquarters, the automation of the chart-making process will be a great benefit as the net effect will be less staff time involved (to create one new chart takes hours) and more reliable results. We update one table (the comparison stars), usually from computer-generated output, and the observers immediately have a new chart.

A major change during this period has been the relocation of headquarters. After 22 years at our previous location, we purchased the old Sky and Telescope main building and moved there in early February. No matter how well organized, such a move cannot happen without significant impact on a lot of people. For my part, I had to deal with lawyers, realtors, inspectors and the like, both for the purchase of the new building as well as the sale of the old one. Staff time was used for packing and unpacking, and for all of the sundry things such as address changes, purchasing new addressed envelopes, starting and stopping utilities, learning a new building, etc. For both staff and the many volunteers, the change meant a large amount of time to clean, paint and modernize the new building, and to clean out the debris and unwanted items from the old building. Many staff members gave freely of their time on weekends to remodel the new building. No one complained; everyone pitched in to make the move possible. I want to thank the many volunteers that answered my call for help – it would not have been possible without your efforts.



The AAVSO's new home: 49 Bay State Road, Cambrige MA.

The new headquarters building gives us many advantages. It places our archive above-ground and protected from floods, with much more room than before. Our staff have more spacious and modern offices, with offices in reserve for future growth. We have a large open area that can be used for symposia, workshops and annual membership meetings. One area of the building is being held in reserve as we learn from the City of Cambridge what our options are for its use. The entry is much nicer, so that the building looks like the facility you would expect for an organization of our stature. We own, rather than lease, our parking spaces. We keep a building with a long astronomical history within our community. And finally, since 49 Bay State Road is only about 200 feet from 25 Birch Street, the staff did not have to relocate to work at the new site.

(Continued on next page...)

In This Issue

The AAVSO Newsletter - Production Editor: Travis Searle. Additional text by Elizabeth O. Waagen and Kate Davis. Photo contributions in this issue from Tom Williams, Vance Petriew, Tim Crawford, Kate Davis, The Maria Mitchell Observatory, and the AAVSO archives.

Of course, purchasing such a building does have financial impacts. While the accountants consider this a transfer of assets rather than an expense, the biggest impact is that funds were moved from the income-producing side of the balance sheet to a fixed asset. This means an annual loss of about $35,000 to our budget, a shortfall that needs to be made up. We've started a building fund drive to replenish our Funds so that this shortfall does not occur every year, and are aggressively pursuing grant opportunities. We ask every observer to consider what the AAVSO has meant to you over the years, and to contribute accordingly. We offer easy payment plans so that you don't need to donate in one lump sum. You should also consider contributing to the AAVSO in alternative ways, such as adding us as a beneficiary in your will. Mike Simonsen is now working for the AAVSO as its Development Director and he will be contracting many of you directly as well as coordinating our future fundraising efforts.

Other highlights over the past few months are more numerous than I can report in such a brief column for the *Newsletter*. We have new *Visual Observing Manual* translations, including one in Japanese (courtesy of Seiji Tsuji). A new 3.5TB file server is online, hosting all of our databases as well as my image libraries, the scanned Eggen index cards, and the scans of our archive material. Java programs for validation and for min/max calculations for LPVs were written. Trips were taken to promote the AAVSO to the professional and worldwide communities. Read my semiannual Director's Report on the web for more information.

I think our future is bright, and I hope that you all agree. Continue your valuable contributions to the AAVSO, and help us become the world leader in variable star research. This is a great time to be variable star enthusiasts!

Message from the President

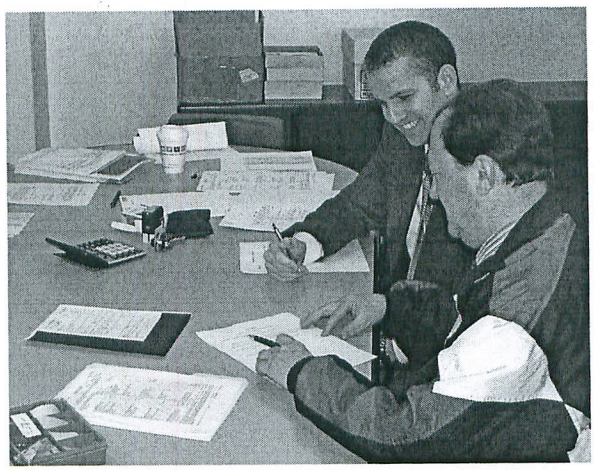
David B. Williams (WI)

It's a rare AAVSO meeting when we get to toast the Queen. But that was one feature of the "spring" meeting in Calgary this past June. This was a joint meeting with the Royal Astronomical Society of Canada, the Association of Lunar and Planetary Observers, and AAVSO. The RASC's royal charter specifies that whenever the society holds a banquet, there must be a toast to the monarch. So we all shoved back our chairs, rose, and clinked our glasses in salute to our current, former, and possibly future sovereign.

Attendance by AAVSO members was light, a few more than 30, but we attracted some members we don't normally see at meetings farther east or south, and the paper session was impressive for science content. As I remarked at the time, "I feel like I wandered into an AAS meeting."

A particular satisfaction for me at this meeting was receiving a certificate for passing the 25,000 mark in visual observations. This isn't even close to a record for 45 years of active membership; some of our more enthusiastic observers have passed 25,000 in just a few years. But this is a significant milestone for me, and it is gratifying to know that the AAVSO will be preserving this data and making it available to the astronomical community for generations to come. All those frozen toes and mosquito bites were worth it!

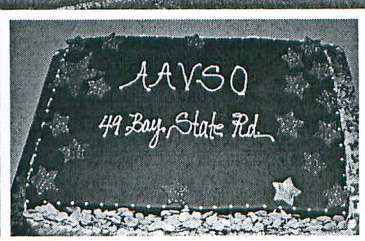
Back in April, the AAVSO Council held its first meeting in our new headquarters at 49 Bay State Road, the former Sky & Telescope facility around the corner from our old HQ. What a wonderful new home for AAVSO! The floor plan is somewhat complicated because the building is the end product of three generations of construction, but it's all above ground and it has space. Even with the current staff sprawling about the place, reveling in newfound spaciousness, there are still a couple of empty offices where summer interns or visiting astronomers can set up shop.



AAVSO President David Williams (foreground) signs the paperwork to complete the sale of 25 Birch Street.

This is my final message as president. The AAVSO is a remarkable collaboration of amateur and professional astronomers, dedicated observers, hardworking staff, volunteers who contribute a remarkable range of expertise to the Association's needs, and generous donors. As I pass the gavel, I want to thank everyone who has kept the AAVSO running and, indeed, leaping forward during the past two years. This is an exciting time to be part of the AAVSO, and great things are yet to come.

Don't miss the next *AAVSO Newsletter,* coming in February, featuring highlights of the 96th Annual Meeting of the AAVSO, held at the our new Headquarters, an AAVSO Archives Feature; a look back at the history of AAVSO "On the Move," plus the official notice of the upcoming Spring meeting at Magdalene College, Cambridge, UK.



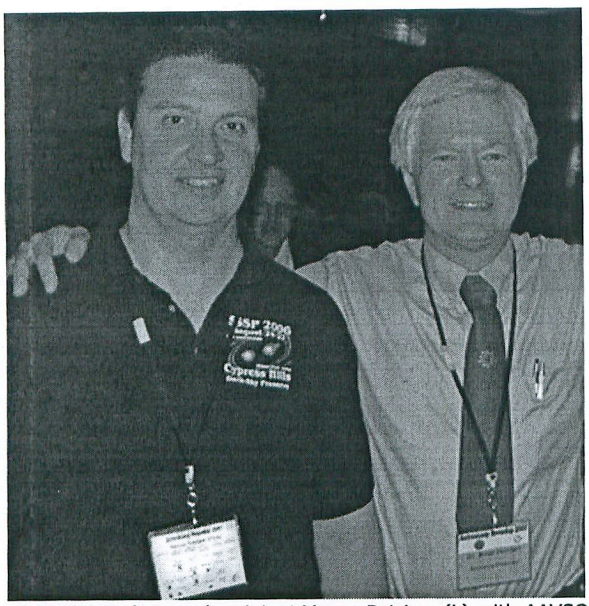
Awards and Recognition

from the 96th Spring Meeting - Calgary, Alberta, Canada - July 2007

The 2007 Director's Award

Presented to **Vance Petriew** of Saskatchewan, Canada

"... for his leadership of the Comparison Star Database Team, devoting numerous hours in the documentation of every comparison star currently used by the AAVSO. Vance also utilized his database skills in the creation of the Variable Standards Database, a masterful relational database of the comparison stars that can be updated in perpetuity. All the while, Vance has been a major observational contributor to our International Database, showing his enthusiasm and pursuit of all aspects of variable star astronomy"



2007 Director's Award recipient Vance Petriew (L) with AAVSO Director Arne Henden (R) at the 96th Spring Meeting in Calgary.

AAVSO Observer Awards

The AAVSO Observer Award is a certificate presented to each variable star observer who has reached certain milestones regarding the cumulative number of observations she or he has submitted to the AAVSO International Database.

OVER 150,000 VISUAL OBSERVATIONS*

Gerald P. Dyck	USA	1978-2006	152,754

OVER 50,000 VISUAL OBSERVATIONS*

Peter Williams	Australia	1989-2006	53,563
Michael A. Simonsen	USA	1999-2006	52,028

OVER 25,000 VISUAL OBSERVATIONS*

Csaba Hadhazi	Hungary	1990-2006	25,642
David B. Williams	USA	1962-2006	25,502

OVER 10,000 VISUAL OBSERVATIONS*

Alan Plummer	Australia	2001-2006	14,373
Jose Rodrigues Ribeiro	Portugal	2000-2006	14,130
Ana Paula da Silva	Portugal	2000-2006	14,099
Pavel A. Dubovsky	Slovakia	1999-2006	11,214 L
Robert J. Stine	USA	1964-2006	10,553
Michael Linnolt	USA	2000-2006	10,166

Longtime member and observer Gerry Dyck (L) accepts his 150,000 Visual observations award from AAVSO Treasurer Dave Hurdis (R) at the Amateur Astronomical Society of Rhode Island meeting on December 1, 2007.

OVER 100,000 CCD/PEP OBSERVATIONS*

Christopher T. Middleton	South Africa	2004-2006	140,929	CCD
Vance Petriew	Canada	2001-2006	119,147	CCD
Robert A. James	USA	1953-2006	117,415	CCD
Tonny Vanmunster	Belgium	1976-2006	107,399	CCD

OVER 50,000 CCD/PEP OBSERVATIONS*

Richard J. Huziak	Canada	1980-2006	60,041	CCD

OVER 25,000 PEP/CCD OBSERVATIONS*

Timothy Crawford	USA	2001-2006	41,095	CCD
William Goff	USA	1981-2006	40,380	CCD
David Boyd	England	2003-2006	34,466	CCD
Thomas J. Richards	Australia	1992-2006	29,882	CCD
Bart Staels	Belgium	1994-2006	28,598	CCD

OVER 10,000 PEP/CCD OBSERVATIONS*

Thomas Krajci	USA	2002-2006	23,519	CCD
Geir Klingenberg	Norway	2003-2006	16,542	CCD
Giancarlo Gotta	Italy	2003-2006	16,264	CCD
Andy Howell	USA	1964-2006	14,297	CCD
Keith A. Graham	USA	1981-2006	13,135	CCD
Walter MacDonald	Canada	1982-2006	12,786	CCD
Gary Walker	USA	1994-2006	11,781	CCD
Pierre de Ponthiere	Belgium	2003-2006	11,059	CCD
Steve Brady	USA	2004-2006	10,776	CCD

OVER 2,500 PEP OBSERVATIONS*

Auckland Photometry Observing Group (Stan Walker)	NZ	2006-2006	4,380	PEP

** Years include total AAVSO observing interval (not only PEP/CCD observing). Total includes PEP and/or CCD observations only (not observer's visual contributions).*

The 96th Spring Meeting of the AAVSO
with the RASC and ALPO
"Astronomy Roundup 2007"
Calgary, Alberta, Canada June 28 - July 3, 2007

Meeting Memories
By Michael Koppelman

This past summer I attended the AAVSO spring meeting in Calgary, Alberta, Canada. It was a smaller meeting, in terms of attendance by AAVSO members, probably due to the fact that Americans seem to think Canada is a long, long ways away and is inhabited by blood drinking cannibals who say the word "about" funny. Or not. I don't know.

In any case 2 or 3 dozen AAVSO members managed to infiltrate the meeting, which was a joint meeting with the Royal Astronomical Society of Canada (RASC) and the Association of Lunar and Planetary Observers (ALPO). The meeting was held on the campus of the University of Calgary, which is a very nice, green and sunny place. So sunny, in fact, that twilight lasts until twilight!

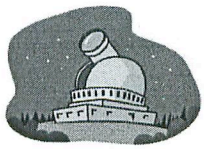
From my myopic perspective, the highlight of the meeting was the usual: hanging out, having a beer and talking astronomy with old and new friends. A close second was the scientific paper session, which had interesting talks by many experienced folks, both professional and amateur. The invited talks were also very interesting, ranging from aurora to supernova remnants to pretty pictures by the Hubble Space Telescope.

The joint meetings have both pros and cons, in my humble opinion. It is fun to meet amateur astronomers with different interests and experiences. I met many fine folks from the RASC, for example. The drawback was that the meeting was dominated by the RASC, as RASC attendees outnumbered AAVSO attendees by a 10 to 1, resulting in less focus on the AAVSO.

On balance, though, it was a fine meeting, with many laughs and many plots, equations and discussions of stellar physics. Perhaps someday in the future, when continental drift has brought the US and Canada closer together, we can reconvene with our friends to the North with a denser population of VSO dorks. In keeping with tradition, Gerry will buy the beer (Thanks, Gerry!).

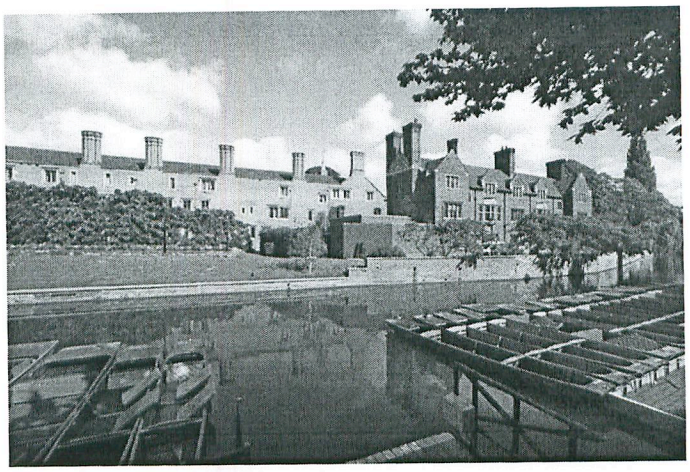
Kudos to the RASC and the AAVSO for a enjoyable and informative meeting. See you in England in '08!

For more information and material on past AAVSO meetings, including photos, PowerPoint presentations, and more, visit the AAVSO website at: ***http://www.aavso.org/aavso/meetings/past.shtml.***



Upcoming AAVSO Meetings

97th Spring Meeting of the AAVSO
Cambridge Visits Cambridge!



Come attend the joint British Astronomical Association (BAA) and American Association of Variable Star Observers meeting, to be held at Magdalene College, Cambridge, UK ***April 10-13, 2008.***

Preliminary Information:

Thursday April 10 - arrive Cambridge, possible afternoon trip to local attraction for those arriving early. Check into your College room.

Friday April 11 - morning local attraction trip, or AAVSO membership meeting. Afternoon, joint BAA/AAVSO meeting.

Saturday April 12 - BAA "Out of Town" meeting, followed by banquet in the evening.

Sunday April 13 - morning joint meeting, BAA/AAVSO.

Monday April 14 - possible visit to local attraction.

Registration is free for those staying on campus; fee for day guests is still TBD.

Lodging is room only for Thursday; full board for Friday and Saturday, breakfast on Sunday. The cost is about $180 per night. We may have alternative accommodation possibilities, but strongly prefer that participants consider the college lodging first. There will be a minimum of 31 en-suite rooms reserved, along with 19 typical college rooms.

Coming Up...

97th Annual Meeting of the AAVSO
Maria Mitchell Observatory's 100th Anniversary
Nantucket, MA; October 17-18, 2008

98th Spring Meeting of the AAVSO
Big Bear, CA; May 20-21, 2009

99th Spring Meeting of the AAVSO
Argentina in 2010!

News and Announcements

Comparison star database update

As you know, the Variable Star Plotter (VSP) has been released. This automated tool generates finding charts for all VSX stars, including all stars currently on the AAVSO program. VSP has many features over and above the online charts, including variable scales and orientation, as well as working for any field anywhere in the sky.

As part of VSP, the massive work of the comparison star database (compDB) team provides the sequence stars that are plotted on all AAVSO fields. The compDB team documented every comparison star currently on any online chart (about 32,000 stars), providing a label (roughly corresponding to magnitude), name in some common catalog like GSC, and accurate RA/DEC for each star. What was missing was accurate, multi-band photometry for each of those stars.

We are in the process of phase II, uploading reliable photometry for all of those comparison stars. The first part of that process took place in October, when we updated the photometry of about 22,000 stars. These first stars had magnitudes that were within 0.2mag of the original label. However, all labels have now been changed to match the more precise photometry, so if you download a chart that contains one or more of these 22,000 stars, you might see slight changes to the chart values – a 101 star might become a 102 for example.

The remaining 10,000 stars are a bit more problematic. Our initial tests indicate that these stars typically are 0.5mag different than their chart values, and rather than updating them during the October release, we are holding onto these improved values to make a single update so that all charts change simultaneously. This helps researchers in knowing when sequences changed enough that they may have to make zeropoint adjustments when doing light curve analysis. That next release will take place about January 15.

Our thoughts are that we will release the database of roughly 32,000 stars on January 15, but give observers time to download new charts, double-check that things make sense, and give us any feedback before we really require everyone to use the new photometry. We are therefore expecting to ask all observers to use new charts about March 1, though these dates are subject to change based on user response.

We hope the improved photometry will clean up most of the weird sequences, and make estimates far more accurate than currently possible. Maybe some of those "Need More Observation" stars will actually get observed! At the same time, we realize that it will be a significant impact to the observers – that sequence you memorized a decade ago will be different. Just remember that your estimates will be more precise and more valuable to the researcher after this process is complete, and learning new stuff is a Good Thing. -Arne Henden

Asteroid named after long-time AAVSO'er Ron Zissell

We are pleased to announce that asteroid 6949 was named in honor of Ron Zissell, an avid AAVSO observer and dedicated instructor at Mount Holyoke College. A member of the AAVSO since 1984, Ron has spent much of his career studying variable stars. For more information visit *http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=6949*. Congratulations, Ron!

AAVSO Mentor Program gets a makeover

New observers are usually full of questions. What's a good eyepiece for my telescope? How do I make sense of these charts? Where do I begin?

The AAVSO has a long tradition of mentoring its new observers. Since its earliest days, experienced observers lent helping hands to newcomers by corresponding, answering questions, and even providing hands-on guidance right at the telescope. Thanks to the efforts of AAVSO Mentor Program coordinator Mike Simonsen and AAVSO webmaster Kate Davis, the AAVSO's online mentor pages were updated this past March with new information and tons of links to online guides, tools and other helpful pages. Visit: *http://www.aavso.org/aavso/about/mentor.shtml.*

AAVSO Alert Notice paper version discontinued

As of Ocotober 1, 2007, we are no longer offering a subscription to the paper version of the *AAVSO Alert Notice*. The electronic version is distributed via email and is available free of charge; to subscribe, please go to *http://www.aavso.org/publications/alerts*.

The Alert Notices may also be viewed at any time on the AAVSO website. Our thanks to all those subscribers who supported the AAVSO and its commitments to variable star astronomy through your subscriptions to the paper version of the *AAVSO Alert Notice*. We hope that the electronic version continues to be a valuable research tool to the astronomical community.

Opportunities at the AAVSO

The AAVSO is a unique organization dedicated to variable stars and variable star research. We house the largest and most comprehensive digital variable star database in the world. The possibilities of future research with these data are limitless. If you are interested in working with the data directly from headquarters, or if you are interested in a possible volunteer position, we might have an opportunity available for you! Contact AAVSO HQ for more information.

Janet A. Mattei Research Fellowship - For an active researcher who wishes to use our database, programs, library or other resources at HQ. Young PhDs are given preference, but we encourage applications by any researcher who has a specific project that is of interest to the AAVSO

Margaret W. Mayall Assistantship - For a high school or college student interested in learning more about variable stars or working with AAVSO data.

Volunteer Opportunities - We are always looking for people who may be able to help the AAVSO in some way. Some examples include landscaping (pulling weeds, cleaning gutters, and gardening, or basic building maintenance), clerical help such as answering telephones, assisting with mailings, proof reading, and other quality control tasks. We also look for help with more specialized skills like programmers familiar with visual basic, Java, as well as individuals familiar with language translation for the website and press releases.

A Very Special Thanks...

To all our members, observers, and friends, who sent holiday greetings to Headquarters. We are most grateful. We wish you all a safe, happy, and joyous holiday and best wishes for a terrific New Year! *-AAVSO*

In Memoriam

The AAVSO extends its most sincere sympathy and condolences to the families, friends, and colleagues of the following members, colleagues, and friends who have passed away since the publication of the previous *Newsletter*.

Frank Bateson - Tauranga, New Zealand

Frank Bateson organized variable star observing in New Zealand, providing leadership to the field in the Southern Hemisphere for 78 years. In 1927, at the age of 18, he founded the Variable Star Section (VSS) of the Royal Astronomical Society of New Zealand RASNZ). He remained as Director of the VSS until 2004. Under his leadership the VSS observed variable stars and collated reports on stars from both professional and amateur observers throughout the world. He and his wife, Doris, formed a non-profit organization called Astronomical Research Ltd. which administered the over 1,000,000 observations which had been delivered to the VSS since the start of the program. An Honorary Member of the AAVSO, Frank maintained a close working relationship with the Association. One of his most valuable contributions to the organization was his willingness to share information on countless numbers of Southern Hemisphere variables, in the form of sequences and charts that he prepared for the RASNZ.

Jacques Fontalba - Les Rives, France

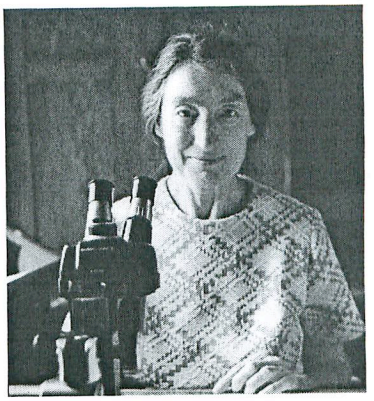
A retired engineer, Jacques joined the AAVSO as a member and observer in November of 1998. He submitted 328 observations to the AAVSO and was also an active member of the AFOEV (Association Française des Observateurs d'Étoiles Variables).

Martha Hazen - Hingham, MA

Martha served the AAVSO for over 20 years as Councilor, President, and Secretary. She could always be counted on to reflect wisely on the long-term needs of the association and its members. She offered sound counsel, especially to the presidents and the Director, and technical support to AAVSO observers while assisting in countless other ways. As a result of her commitment to the AAVSO, and her invaluable professional support and friendship to the Association, Martha was presented the 37th AAVSO Merit Award in 2005.

Martha entered the world of astronomy at a time when few women chose the field. She graduated from Mount Holyoke College as an astronomy major in 1953. She went on to receive her PhD from the University of Michigan and began working at the Harvard College Observatory (HCO) in the early 1960s. While studying variable stars, galaxies and planetary nebulae, she immersed herself in the organization and preservation of HCO's mammoth plate collection, of which she would later become curator. Throughout the next 40 years, as steward of the plate collection, Martha hosted and instructed countless astronomers worldwide, as well as both visiting and local students, in their use.

Dorrit Hoffleit - New Haven, CT



Dorrit Hoffleit's 77-year friendship with the AAVSO began in 1930. She was then just 23 years old, and listed her astronomical experience on her AAVSO application as "examining photographic plates to find and determine periods for variable stars."

From the beginning of her involvement with variable stars and the AAVSO, and as her career turned through its very different phases over the decades, Dorrit was present at nearly every AAVSO annual meeting and many spring meetings. She visited AAVSO Headquarters at every opportunity.

Dorrit served 8 two-year terms on the AAVSO Council (1943-1945, 1954-1958, 1972-1974, 1977-1981, and 1989-1993). She also served an additional 7 years as an officer: 2nd Vice President 1958-1960, 1st Vice President 1960-1961, President 1961-1963, and Past President 1963-1965. Thus, she gave 23 years to the AAVSO in an official position of leadership. Over the years, she was often approached for her thoughts on a broad range of subject affecting the AAVSO, and she was a trusted advisor and mentor to many who were responsible for the AAVSO's well-being, particularly Janet Mattei.

Dorrit's support of the AAVSO and its goals was also repeatedly demonstrated by her financial support (often anonymous). Numerous projects would not have been as successful as they were -- or even possible -- without her great generosity.

Her beaming smile and her wonderfully infectious laughter lightened the gloomiest day, her stories were fascinating, her breadth and depth of historical astronomical knowledge (and related fields such as astronomical politics) legendary, her wise counsel never ponderous or pompous. The example she set through the life she lived as her gracious, kind, practical self -- often in the face of enormous adversity -- was inspiring and enriching.

Raymond "Win" Jones - Capetown, South Africa

A long-time AAVSO observer and Sustaining member, Win began observing variable stars at age 80. Over the course of the next 18 years he contributed over 15,000 visual observations of variable stars to the AAVSO International Database. When his eyesight started failing due to macular degeneration, he took up photoelectric photometry (PEP) at age 88, and contributed close to 3,000 PEP observations before bad health forced him to give up observing at the end of 2005. He received two awards from the AAVSO: one for more than 10,000 visual observations, of which nearly 4,000 were for the Hipparcos project; the other for more than 1,000 PEP observations.

Bohdan Paczyński - Princeton, NJ

Born in Vilnius, Lithuania, Paczyński was a leading scientist in the study of the evolution of stars. Educated at the Warsaw University, he moved to the US in 1981 where he later became The Lyman Spitzer Jr. Professorof Astrophysics at Princeton University. Paczyński initiated the Optical Gravitational Lensing Experiment (OGLE, led by Andrzej Udalski of Warsaw University Observatory) and All Sky Automated Survey (ASAS, created together with Grzegorz Pojmański). His new methods of discovering cosmic objects and measuring their mass by using gravitational lenses gained him international recognition, and he is acknowledged for coining the term 'microlensing.' He was also an early proponent of the idea that gamma-ray bursts are at cosmological distances. In January 2006 he was awarded Henry Norris Russell Lectureship of the American Astronomical Society.

Alan Shapley - Boulder, CO

Alan Shapley worked for the National Bureau of Standards' (NBS) Central Radio Propagation Laboratory (1940s through 1970s), and for the National Oceanic and Atmospheric Administration (NOAA) from the 1970s through the 1980s. In these positions, he maintained contact with the AAVSO, which provided him with Daily American Relative Sunspot Numbers, SEA and SES observations, and computations and analyses of these data.

Aside from this long-standing professional relationship with the AAVSO, he was also a constant friend of the Association. Alan was the son of HCO Director Harlow Shapley, and he recalled his years of involvement with the AAVSO: "passing around plates of cookies at garden parties at The [HCO] Residence in the 20s, running the lantern slide projector in the 30s, [helping to start] the Solar Division in the 40s, getting small NBS grants [for the AAVSO] in the 50s and 60s, modest contributions in the 70s and 80s."

Although he resigned his membership "without prejudice" in 1992, he continued to make himself available to review papers, and offer advice and assistance on matters pertaining to the Solar Committee.

Ralph Geschwind - Massillion, OH

A dedicated AAVSO observer and member since the late 1960's, Ralph was also a founding member the Wilderness Center Astronomy Club in Ohio. His love of astronomy and willingness to mentor helped to encourage many new VSO'ers.

Manuel Fojo - Los Osos, CA

A devoted AAVSO member since 1978, Manuel supported astronomy outreach efforts, including the College of San Mateo's Reach for the Stars Program, in his home state of California.

Jane Halbach - Estes Park, CO

Wife of dedicated long-time member and observer Ed Halbach, Jane strongly supported Ed's hobby and astronomical activities. In 2003, she was recognized alongside Ed when he received the AAVSO's William Tyler Olcott Distinguished Service Award. Ed and Jane raised six children together and enjoyed travelling the world, often meeting up with AAVSO members and observers around the globe.

AAVSO Features

Articles from the AAVSO Website

AAVSO On The Road

http://www.aavso.org/news/ontheroad.shtml

Check out the latest "On the Road" report and take a trip with AAVSO Director Arne Henden to the Society for Astronomical Sciences (SAS) annual meeting in Big Bear, CA. The meeting, held this past May 22-24, 2007, featured workshops on spectroscopy and on AIP4WIN photometry. Arne gave the official "kickoff talk," discussing the Olin Eggen index card scanning project, followed by highlights of recent stellar activity such as the new novae, the eclipsing Cepheid, transiting exoplanets and the like.

You can also read about the AAVSO's involvement at the Riverside Telescope Makers Convention (RTMC) at YMCA Camp Oakes, also near Big Bear, California. AAVSO'er Kate Hutton (HTN) took the AAVSO display to the meeting and was joined by fellow observers Pam Gonzales (GPJ) and PJ Goldfinger (GPU). RTMC is the major gathering of amateur astronomers in California, with attendance normally in the thousands of people, from long, long-time regulars to young Boy Scouts and Girl Scouts.

Second Istanbul Amateur Astronomy Symposium

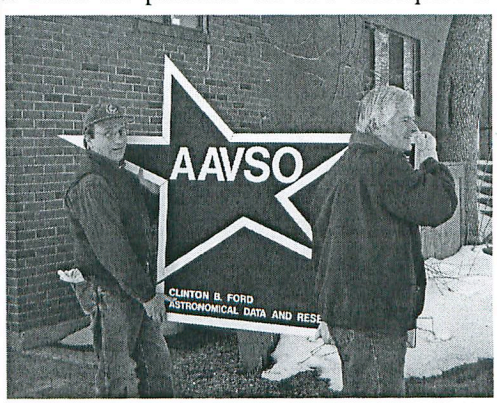
http://www.aavso.org/news/istanbul_conf.shtml

Join AAVSO Technical Assistant Gamze Menali and AAVSO Director Arne Henden at the Second Istanbul Amateur Astronomy Symposium, held in mid-July, 2007, in Istanbul, Turkey. Both Arne and Gamze attended the symposium as invited speakers. Also in attendance representing the AAVSO were Linda Henden, Haldun Menali, and Dick Parker, an amateur astronomer from Connecticut. The symposium, organized by Istanbul Kultur University, featured a 5-day telescope mirror making workshop, led by Haldun and Dick. By all accounts, the symposium was a great success. Check out the website for the full articles by Gamze and Arne, as well as lots of pictures!

32 Tons Later...

http://www.aavso.org/news/32tons.shtml

On December 27, 2006, AAVSO Director Arne Henden signed the closing papers to make the purchase the new Headquarters building official. From that moment on moving preparations began rolling full steam ahead. Beginning on February 2, 2007, some 30 tons of books, bookcases, desks, files, file cabinets, copy machines, tables, and archive materials made their way over to the new building. Thanks to the hard work of the AAVSO staff and many diligent volunteers, the move was a success. Read more and browse all the photos of the move at the above URL.



AAVSO 2006-2007 Observer Totals

Table 1. AAVSO Observer Totals 2006–2007 by Country

Country	No. Observers	No. Obs.	Country	No. Observers	No. Obs.
ARGENTINA	24	418	JAPAN	4	1,528
AUSTRALIA	29	155,196	KOREA	1	3
AUSTRIA	3	600	MALTA	2	34
BELARUS	2	5	MEXICO	1	10
BELGIUM	22	88,244	NETHERLANDS	12	10,741
BERMUDA	1	30	NEW ZEALAND	7	327,700
BRAZIL	13	2,838	NORWAY	7	1,198
CANADA	34	62,729	PERU	1	10
CHINA	1	1	PHILIPPINES	2	78
COSTA RICA	1	14	POLAND	20	28,937
CROATIA	4	2,182	PORTUGAL	2	8,208
CYPRUS	1	93	ROMANIA	8	7,788
CZECH REPUBLIC	2	70	RUSSIA	9	3,985
DENMARK	3	63	SCOTLAND	1	660
ENGLAND	32	59,906	SINGAPORE	1	1
FINLAND	9	15,486	SLOVAKIA	1	384
FRANCE	25	35,890	SLOVENIA	1	1,841
FRENCH POLYNESIA	1	3	SOUTH AFRICA	13	393,319
GERMANY	35	16,744	SPAIN	34	11,998
GREECE	10	7,490	SWEDEN	1	637
HUNGARY	79	28,004	SWITZERLAND	6	1,068
INDIA	3	82	TURKEY	6	97
IRAN	2	2	UKRAINE	4	908
IRELAND	4	140	URUGUAY	2	10
ISRAEL	2	6	USA	287	368,516
ITALY	29	13,314			
			TOTAL	804	1,659,209

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

State		No. Observers	No. Obs.	State		No. Observers	No. Obs.
ALABAMA	(AL)	2	12	NEBRASKA	(NE)	2	128
ARIZONA	(AZ)	11	27,657	NEW HAMPSHIRE	(NH)	3	7,147
CALIFORNIA	(CA)	32	13,182	NEW JERSEY	(NJ)	1	7
COLORADO	(CO)	7	28,090	NEW MEXICO	(NM)	7	56,274
CONNECTICUT	(CT)	8	1,060	NEVADA	(NV)	3	85
FLORIDA	(FL)	7	54,071	NEW YORK	(NY)	12	5,038
GEORGIA	(GA)	3	1,845	OHIO	(OH)	13	1,085
HAWAII	(HI)	2	2,168	OKLAHOMA	(OK)	5	156
IOWA	(IA)	1	1	OREGON	(OR)	3	24,153
ILLINOIS	(IL)	15	38,764	PENNSYLVANIA	(PA)	10	2,274
INDIANA	(IN)	9	10,784	PUERTO RICO	(PR)	1	19
KANSAS	(KS)	6	4,399	RHODE ISLAND	(RI)	4	2,244
KENTUCKY	(KY)	4	23	SOUTH CAROLINA	(SC)	3	54
LOUISIANA	(LA)	2	2,664	TENNESSEE	(TN)	5	1,384
MASSACHUSETTS	(MA)	19	11,763	TEXAS	(TX)	21	6,303
MARYLAND	(MD)	11	2,788	UTAH	(UT)	3	15,230
MAINE	(ME)	2	100	VIRGINIA	(VA)	7	774
MICHIGAN	(MI)	5	1,301	VERMONT	(VT)	1	3
MINNESOTA	(MN)	9	6,107	WASHINGTON	(WA)	8	227
MISSOURI	(MO)	3	1,248	WISCONSIN	(WI)	8	37,368
MISSISSIPPI	(MS)	1	46	WEST VIRGINIA	(WV)	2	770
MONTANA	(MT)	1	251				
NORTH CAROLINA	(NC)	5	469	TOTAL		287	368,516

Table 3. AAVSO Observers, 2006–2007.

Code	Org.	Name	No. Obs.
AFO		A. Abascal Fontecha, Spain	2
AAP		A. Abbott, Canada	3106
AAN	02	A. Abe, Germany	167
AIV	09	I. Abramov, Ukraine	801
ARV		R. Adamson, CA	10
AJT		J. Agustoni, Brazil	1
AWL		W. Alexander, VA	32
ACO		C. Allen, Sweden	637
AJC	13	J. Almeida, Brazil	79
AJV	15	J. Alonso, Spain	110
AMH		M. Amato, CT	32
AAQ	03	A. Ambrus, Hungary	62
AAX	13	A. Amorim, Brazil	830
ABG	08	B. Andresen, Norway	30
AKO		K. Apostolidis, Greece	4
AJN		J. Appleyard, Canada	26
AWX		W. Arango, Argentina	3
AWY	13	W. Araujo, Brazil	275
AAT	15	A. Ardanuy, Spain	2
AFQ		F. Armario, Spain	106
AAM		A. Arminski, Poland	8147
ADN		D. Arnautovic, Australia	5
ARJ		J. Arnold, TX	38
ATE		T. Arranz, Spain	929
ASA		S. Arredondo, Mexico	10
AAU		A. Aslanturk, Turkey	7
ATO		T. Aslesen, Norway	72
ATI	03	T. Asztalos, Hungary	4088
ADI	02	D. Augart, Germany	683
AAV		A. Avtanski, CA	9
ARX		R. Axelsen, Australia	92
BGL	03	G. Baglyas, Hungary	5
BIY		D. Bailey, IL	3
BWY		W. Bailey, NJ	7
BIE	05	A. Baillien, Belgium	191
BPH	02	S. Bakan, Germany	2
BFX		R. Baker, OH	96
BWW		W. Bakewell, CA	5
BYX	03	L. Balaton, Hungary	11
BCD		R. Ball, England	15
BQH	03	E. Balogh, Hungary	5
BIV	03	I. Balogh, Hungary	315
BVN		M. Banfi, Italy	2425
BGZ		G. Banialis, IL	70
BHI		J. Bannister, TX	37
BSR	18	S. Baroni, Italy	189
BVT		T. Bartlett, TX	107
BBA		B. Beaman, IL	1585
BWX	27	A. Beaton, Canada	383
BDY	09	D. Bechutskiy, Ukraine	2
BSZ		S. Beckwith, MA	129
BJS		J. Bedient, HI	317
BCP	20	C. Beech, England	37
BNY		R. Benge Jr., TX	1
BTY		T. Benner, PA	419
BQO		L. Bentolila, Argentina	5
BEB		R. Berg, IN	9
BQX		M. Betlej, Poland	7
BPU		A. Bhuptani, England	39
BIZ		J. Bialozynski, AZ	15932
BVG	18	G. Bianciardi, Italy	14
BIC	01	L. Bichon, France	2201
BMM	05	M. Biesmans, Belgium	520
BCO		C. Birza, Romania	41
BXN	01	M. Bisson, France	223
BXT	08	T. Bjerkgaard, Norway	67
BXU		J. Bjoerklund, Denmark	1
BKL		J. Blackwell, NH	776
BLD	10	D. Blane, South Africa	228
BWJ		J. Bohdanowicz, Canada	5
BOI		B. Bois, Canada	19
BQG		G. Bokowy, IL	88
BVS		S. Bolzoni, Italy	7
BRJ		J. Bortle, NY	3858
BMU	04	R. Bouma, Netherlands	167
BDG	20	D. Boyd, England	14858
BFI		F. Boyer, OH	8
BMK		M. Bradbury, IN	426
BPX		P. Bradley, England	47
BXS		S. Brady, NH	6290
BDT		D. Branchett, FL	300
BNW	02	W. Braune, Germany	99
BQC	01	J. Breard, France	5
BXI		D. Breit, CA	8
BZG		G. Brellier, France	50
BTB		T. Bretl, MN	349
BHA	02	H. Bretschneider, Germany	968
BQE		E. Briggs, Canada	1
BOS	05	E. Broens, Belgium	563
BWU		D. Brooks, MO	214
BJQ		J. Brooks, CA	12
BQS	15	J. Bros, Spain	11
BXV	15	X. Bros, Spain	166
BOA	01	A. Bruno, France	826
BHU		R. Buchheim, CA	432
BGO		R. Bunge, MD	1
BXD		A. Burda, Romania	6
BXE		E. Burichel, Brazil	24
BIW		N. Butterworth, Australia	4703
CCB		C. Calia, CT	374
CCZ		C. Calis, Turkey	18
CMN		R. Cameron, Australia	122
C		L. Campbell, MA	55
CPN		P. Campbell, Canada	93
CMP		R. Campbell, FL	1838
CN		A. Cannon, MA	11
CEM	15	E. Capella, Spain	64
CQP		A. Capetillo, Spain	25
CXN		J. Carlson, MA	1613
CZO		R. Carrizo, Argentina	3

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

Code	Org.	Name	No. Obs.
CVJ	06	J. Carvajal Martinez, Spain	24
CRI	15	R. Casas, Spain	24
CLQ		L. Cason, SC	5
CKN		K. Castle, AZ	22
CWO		W. Castro, OH	45
CNT		D. Chantiles, CA	469
CGF		G. Chaple Jr., MA	3930
CKJ		J. Cheng, PA	19
CGU		G. Chew, Singapore	1
CCY		C. Chiselbrook, GA	1637
CWY		W. Chisik, Argentina	3
COQ		Cincinnati Observatory Center, OH	
330			
CCV		C. Clarasso, Spain	93
CMB		M. Clark, New Zealand	28
CLK		W. Clark, MO	0
CPY		P. Clayton, England	8
CPS	05	P. Cloesen, Belgium	96
CPE		P. Closas, Spain	37
CKH	05	H. Coeckelberghs, Belgium	10
CAY	13	A. Coelho, Brazil	1
CCT	13	C. Colesanti, Brazil	1209
CDK		D. Collins, NC	412
COL		P. Collins, AZ	4
CME	18	E. Colombo, Italy	369
CMG	04	G. Comello, Netherlands	5781
CXA		A. Cook, CA	3
CKL		A. Cook, OH	138
COO		L. Cook, CA	100
CK		S. Cook, NM	246
CWT		W. Cooney, LA	2520
COM	10	T. Cooper, South Africa	737
CDV		D. Cornell, IL	5
CLZ	01	L. Corp, France	309
CAI		A. Correia, Portugal	4059
CIO		I. Costache, Romania	10
COV		V. Coulehan, NY	130
CWD		D. Cowall, MD	11
CXO		J. Cox, England	28
CR	14	T. Cragg, Australia	191
CFY		J. Craig, MA	98
CTX		T. Crawford, OR	15481
CMY	20	M. Crook, England	25
CRR		R. Crumrine, NY	95
CIZ		I. Cruz, OH	93
CBZ	03	B. Csak, Hungary	39
CTI	03	T. Csorgei, Hungary	415
CSM	03	M. Csukas, Romania	1415
CKB		B. Cudnik, TX	1238
CUU		J. Curto Amigo, Spain	267
DS		J. Da Silva, Brazil	3
DAM	06	A. Darriba Martinez, Spain	16
DMP		M. Dasgupta, India	7
DVE		V. Davis, AL	9
DJS	20	J. Day, England	153
DPP	05	P. De Ponthiere, Belgium	14978
DSP		P. De Santis, NV	1
DSJ	13	J. De Souza Aguiar, Brazil	11
DVI	10	F. De Villiers, South Africa	39
DEA		R. Demartino, CT	25
DFR	27	F. Dempsey, Canada	92
DDE		D. Denisenko, Russia	120
DAT		A. Derdzikowski, Poland	186
DAA	03	A. Derekas, Hungary	2
DNO		O. Deren, Poland	483
DSI		G. Di Scala, Australia	32618
DMQ		M. Diamond, CO	5
DDD		D. Dickinson, AZ	1
DPA	05	A. Diepvens, Belgium	537
DSV		S. Diesso, WI	196
DRG		R. Diethelm, Switzerland	9
DJU		J. Dildine, CA	1
DLA		A. Dill, KS	171
DIL		W. Dillon, TX	396
DRL		S. DiRocco, OH	22
GDB	03	G. Domeny, Hungary	19
DLX	03	L. Dorogi, Hungary	4
DDB		D. Douglass, PA	5
DXA		A. Douvris, Greece	4
DDJ		D. Dowhos, Canada	6
DPV		P. Dubovsky, Slovakia	384
DFS	05	S. Dufoer, Belgium	2
DAB		A. Dukes Jr., SC	8
DMO	01	M. Dumont, France	1089
CLW01		D. Durig, TN	1051
DRZ		R. Durkee, MN	101
DEQ		E. Dutton, CO	3
DKS		S. Dvorak, FL	49346
DGP		G. Dyck, MA	1827
DDI		D. Dyer, KS	190
EJF		J. Edmonds, MA	11
EMA		M. Eichenberger, Switzerland	44
EER		E. Eker, Turkey	2
EJI		J. Elliott, NC	1
EM		G. Emerson, CO	20
EPE	01	P. Enskonatus, Germany	179
ERB		B. Eramia, WA	61
EJO	03	J. Erdei, Hungary	95
FTB		T. Fabjan, Slovenia	1841
FEO	03	E. Farkas, Hungary	303
FBH		B. Fehling, Spain	4
FAJ	03	A. Fejes, Hungary	71
FBA		B. Ferguson, OK	2
FOM	15	M. Fernandez-Ocana, Spain	111
FRF	03	R. Fidrich, Hungary	39
FWH		W. Finlay, Canada	8
FGU	02	G. Flechsig, Germany	28
FLY		J. Flores, Argentina	3
FMU	15	M. Flores, Spain	16
FDA	03	A. Fodor, Hungary	59

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

Code	Org.	Name	No. Obs.
FBZ	03	B. Fodor, Hungary	14
FSE	18	S. Foglia, Italy	5
FFC	03	F. Foldesi, Hungary	131
FMR		M. Fonovich, Croatia	2113
FXJ		J. Fox, MN	168
FTH		T. Fox, TX	5
FBN	10	B. Fraser, South Africa	82
FML	04	C. Fridlund, Netherlands	13
FAA	18	A. Frosina, Italy	2
FMG		G. Fugman, NE	108
GBZ	21	O. Gabzo, Israel	5
GHT	27	G. Gaherty, Canada	141
GMO		M. Gainer, PA	33
GDM		M. Galea De Giovanni, Malta	1
GTN		T. Gandet, AZ	3
GAA		P. Garey, IL	22
GJP		J. Garlitz, OR	229
GPG		P. Garossino, TX	10
GKI		K. Geary, Ireland	30
GCP	02	C. Gerber, Germany	323
GHS		H. Gerner, WI	1245
GAO		A. Giambersio, Italy	37
GGU	04	G. Gilein, Netherlands	405
GLJ		J. Glasheen, Canada	1
GMY		M. Glennon, Ireland	28
GLG		G. Gliba, MD	17
GFT	01	F. Gobet, France	10174
GAW		A. Godfrey, England	691
GFB		W. Goff, CA	5356
GPX	14	W. Goltz, Australia	27204
GOT	06	T. Gomez, Spain	4704
GZN	07	A. Gonzalez Herrera, Spain	75
GAQ		A. Goossen, NY	7
GGZ	03	Z. Gorgei, Hungary	653
GLM		L. Gorski, IL	18
GGC	18	G. Gotta, Italy	1962
GKA		K. Graham, IL	12247
GPE		Grainger Observatory, NH	81
GRL	08	B. Granslo, Norway	234
GMZ	18	M. Graziani, Italy	34
GTZ		T. Grzybowski, NM	265
GCO		C. Gualdoni, Italy	3882
GXB		G. Gualdoni, Argentina	3
GUX		L. Guevara, Argentina	3
GPR		P. Guilbault, RI	3
GUN	01	J. Gunther, France	1142
GYA	03	L. Gyarmati, Hungary	28
GYP	03	P. Gyenizse, Hungary	82
HCS	03	C. Hadhazi, Hungary	2760
HTY		T. Hager, CT	59
HKB		B. Hakes, IL	297
HP		W. Hampton, CT	24
HDX		D. Hands, NC	42
HBB		B. Harris, FL	455
HMQ		M. Harris, GA	204
HAV		R. Harvan, MD	1333
HZA		A. Hasanzadeh, Iran	1
HJK		J. Hauk, CO	6
HHU	05	H. Hautecler, Belgium	781
HKY	27	K. Hay, Canada	64
HAB		R. Hays Jr., IL	1243
HCA		C. Hedgepeth, VA	1
HKN		K. Hedrick, WV	77
HRZ		R. Hegenbarth, Germany	1
HMC		M. Hencheck, WI	9
HQA		A. Henden, MA	6
HGC	14	G. Herdman, New Zealand	52660
HXE		E. Herrera, Argentina	3
HES		C. Hesseltine, WI	1882
HMV		M. Hessom, CA	2
HDJ		D. Higgins, Australia	124
HIM		W. Hill, MA	49
HEG		E. Hintz, UT	4
HZR	02	R. Hinzpeter, Germany	30
HIR		Y. Hirasawa, Japan	358
HJS		J. Hissong, OH	4
HJX	13	J. Hodar Munoz, Brazil	10
HWD		W. Hodgson, Australia	38
HEK	11	E. Hoeg, Denmark	20
HDF		D. Hohman, NY	1
HSQ		S. Holland, NC	3
HQN	03	J. Holubiczky, Hungary	3
HOO	04	G. Hoogeveen, Netherlands	32
HJZ		J. Horne, CA	24
HJA		J. Hudson, CA	67
HOX	14	O. Hull, New Zealand	43079
HDU		D. Hurdis, RI	836
HUR	20	G. Hurst, England	2285
HSU		S. Hutchins, CO	2
HTN		K. Hutton, CA	2599
HUZ	27	R. Huziak, Canada	5811
HHT	17	H. Hyvonen, Finland	9
ILE	03	E. Illes, Hungary	1055
IPA	12	P. Ingrassia, Argentina	20
IVM	16	V. Ivanov, Russia	3058
JMA		M. Jacquesson, France	441
JTP	01	P. Jacquet, France	10
JAT	03	T. Jakabfi, Hungary	37
JM		R. James, NM	45555
JZO	03	Z. Jankovics, Hungary	19
JDG		D. Janky, WA	9
JSI	20	S. Jenner, England	4
JKK	08	K. Jensen, Norway	91
JLR		R. Jepeal, CT	536
JOG		G. Johnson, MD	110
JON	05	K. Jonckheere, Belgium	3
JJA	14	A. Jones, New Zealand	150104
CN	20	C. Jones, England	730
JJI		J. Jones, OR	8443
JKL		K. Jones, Australia	8

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

Code	Org.	Name	No. Obs.
JRC	15	R. Josa, Spain	35
JAX	17	A. Junkkari, Finland	7
KSB		S. Kalkan, Turkey	2
KB		W. Kaminski, NM	8
KAM	02	A. Kammerer, Germany	37
KMO		M. Kardasis, Greece	25
KSF		S. Karge, Germany	434
KAD	03	A. Karpati, Hungary	52
KLU		L. Karpiesiuk, Poland	72
KKI		K. Kasai, Switzerland	302
KAZ	03	A. Kaszt, Hungary	38
KEI		E. Kato, Australia	6
KPI	17	P. Kehusmaa, Finland	503
KCE		C. Kelly, TN	1
KZX	03	Z. Kereszty, Hungary	1
KSH	14	S. Kerr, Australia	283
KSZ	03	S. Keszthelyi, Hungary	470
KRB		R. King, MN	769
KQR		R. Kinne, NY	22
KSJ	27	S. Kinsella, Canada	18
KIR		P. Kirby, AZ	549
KBR		B. Kirshner, CA	20
KKA	03	K. Kis, Hungary	7
KIL	03	L. Kiss, Australia	1487
KCO	03	S. Kiss, Hungary	1
KPC		P. Klages, England	6
KGE	08	G. Klingenberg, Norway	172
KWL		W. Kloehr, Germany	15
KGT		G. Knight, ME	42
KSP		S. Knight, ME	58
KOC	03	A. Kocsis, Hungary	820
KRV		R. Koff, CO	26624
KHL		M. Kohl, Switzerland	578
KHJ		H. Koller, Canada	5
KRS		R. Kolman, IL	2307
KMA		M. Komorous, Canada	2795
KMP		M. Koppelman, MN	2998
KSG		G. Koronis, Greece	25
KOS	03	A. Kosa-Kiss, Romania	4911
KLX		L. Koscianski, MD	97
KMS		M. Kossa, France	1
KAF	03	A. Kovacs, Hungary	423
KVS	03	A. Kovacs, Hungary	115
KVI	03	I. Kovacs, Hungary	410
KFK		F. Krafka, TX	41
KTC		T. Krajci, NM	10064
KWO	02	W. Kriebel, Germany	2695
KIS	02	G. Krisch, Germany	581
KTZ		T. Krzyt, Poland	1559
KUC	01	S. Kuchto, France	1332
KZQ	03	Z. Kuli, Hungary	122
KMI	16	M. Kuzmin, Russia	125
KSQ		S. Kuznetsov, Russia	221
LCR	15	C. Labordena, Spain	462
LHS		H. Lacombe, Canada	1
LSA	17	S. Lahtinen, Finland	7
LDJ	27	D. Lane, Canada	1479
LTO	02	T. Lange, Germany	53
LMF	13	M. Lara, Brazil	364
LTM		T. Laskowski, IN	20
LTQ	03	T. Latos, Hungary	1
LED		E. Lawrence, KY	1
LZT		T. Lazuka, IL	1157
LEB	01	R. Lebert, France	208
LFC	01	F. Lecoyer, Belgium	1
LMT		M. Legutko, Poland	607
LDA		D. Lehman, MD	12
LDI		D. Lehmann, Germany	3
LNZ		G. Lenz, LA	144
LJL		J. Leonard, IL	10
LNL		N. Lerner, CA	4
LEV		A. Leveque, CA	149
LVY		D. Levy, AZ	1
LMI		M. Lierl, KY	6
LAI	27	A. Ling, Canada	934
LMK		M. Linnolt, HI	1851
LLZ	03	L. Liziczai, Hungary	352
LTE		T. Lloyd-Evans, England	943
LBN	14	B. Loader, New Zealand	1579
LOX		S. Logioco, Argentina	3
LRD		D. Loring, UT	284
LDS		D. Loughney, Scotland	660
LFZ		F. Lucidi, Italy	275
LBU	03	D. Lukacs, Hungary	2
LMJ		M. Luostarinen, Finland	1827
MDW		W. MacDonald II, Canada	4523
MTX		T. Mackenzie, NY	70
MAL		R. Maclaren, WI	8
MLI		L. Maisler, NY	81
MYN		A. Majczyna, Poland	5
MII	03	L. Majzik, Hungary	69
MUV	03	A. Makay, Hungary	33
MEX		P. Mancini, Argentina	3
MBG	03	B. Mandek, Hungary	4
MOF		O. Maraev, Russia	432
MXI	18	A. Marchini, Italy	1209
MKW		A. Markiewicz, Poland	1443
MXS	03	S. Marosi, Hungary	83
MMN	18	M. Martignoni, Italy	36
MYC		C. Martin, NE	20
MMG		M. Martinengo, Italy	6
MRX	02	H. Marx, Germany	1022
MN		H. Mason, NV	76
MQI		M. Matesic, Croatia	41
MTH		H. Matsuyama, Australia	9607
MXV		A. Matvienko, Russia	3
MPR	02	P. Maurer, Germany	470
MGE		G. Mavrofridis, Greece	4571
MAZ		M. Mazurek, AZ	50
MBE		B. McCandless, MD	279

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

Code	Org.	Name	No. Obs.
MUE		R. McDaniel, TX	647
MBT		T. McDonagh, MA	227
MDP	27	P. McDonald, Canada	1096
MGH	20	H. McGee, England	44
MED	20	K. Medway, England	1492
MIQ		I. Megson, England	1084
MEH		C. Meinhardt, WA	8
MHI		H. Menali, MA	174
MQZ		M. Mendez Majuelos, Spain	136
MDJ	12	D. Mendicini, Argentina	58
MQG		M. Menegotto, Argentina	243
MBB		B. Menzies, New Zealand	31741
MZK		K. Menzies, MA	266
MEZ	03	C. Mezosi, Hungary	66
MTK		T. Michalik, VA	378
MXT		C. Middleton, South Africa	172727
MOK	11	O. Midtskogen, Norway	532
MXM		M. Mifsud, Malta	33
MXL	20	R. Miles, England	472
MTU		T. Miller, NV	8
MIP		R. Miro, MD	11
MZS	03	A. Mizser, Hungary	649
MCE		E. Mochizuki, Japan	23
MRV		R. Modic, OH	77
MHH		J. Moehlmann, PA	168
MPV	03	P. Molnar, Hungary	1561
MLF	10	B. Monard, South Africa	153919
MYX		L. Mongabure, Argentina	2
MHC	12	C. Montalvo, Peru	10
MXO		C. Montes, Philippines	4
MYK		K. Moore, SC	24
MEV	01	E. Morelle, France	2602
MFS		S. Moretti, Italy	6
MOI	01	E. Morillon, France	4065
MOW		W. Morrison, Canada	4891
MDA		A. Morton, WA	1
MXK	03	A. Morvai, Hungary	13
MVZ	03	J. Morvai, Hungary	14
MPS	27	P. Mozel, Canada	96
MMH		M. Muciek, Poland	10
MKH		S. Mukherjee, India	5
MDU		D. Mulinski, Poland	308
MBQ		B. Mullin, MN	8
MMU		M. Munkacsy, RI	468
MUY	05	E. Muyllaert, Belgium	12332
NKR	03	K. Nadalan, Hungary	1
NIS	03	I. Nagy, Hungary	7
NZO	03	Z. Nagy, Hungary	31
NDQ	01	D. Naillon, France	811
NDA		D. Nance, AL	3
NIL		I. Nasiroglu, Turkey	50
NLX	14	P. Nelson, Australia	5083
NAL	03	A. Nemes, Hungary	71
NBQ	03	B. Nemoda, Hungary	2
NBB		B. Neuman, VT	3
NVT		V. Nevski, Belarus	4
NMI		M. Nicholas, AZ	949
NDC		D. Nicholls, Australia	1
NMR	20	M. Nicholson, England	6397
NFD	04	F. Nieuwenhout, Netherlands	1692
NVM		M. Niveyro, Argentina	3
NCH		C. Norris, TX	177
NKL		K. Nuber, Germany	243
NHK	17	H. Nylander, Finland	27
OBB		B. O'Bannion, TX	1
OCN	27	S. O'Connor, Bermuda	30
ODI		D. O'Driscoll, Australia	5
ONJ		J. O'Neill, Ireland	81
OSN		S. Oatney, KS	1407
OES		D. Oesper, WI	33
OYE		Y. Ogmen, Cyprus	93
OAR	17	A. Oksanen, Finland	13082
OXV		J. Olivo, Argentina	3
OSC		S. Orlando, NY	1
OJR	06	J. Osorio, Spain	1866
OPR		P. Ossowski, Poland	26
OSE	12	S. Otero, Argentina	12
OJJ		J. Ott, CO	1430
OJS		J. Ott, KY	6
OCR	05	C. Otten, Belgium	1024
OB	10	M. Overbeek, South Africa	14237
PPK	17	P. Paakkonen, Finland	12
PUC		C. Panichi, Argentina	5
PBC		B. Paolo, Italy	3
PCC	18	R. Papini, Italy	1770
PPS	03	S. Papp, Hungary	7074
PDV		D. Parker, England	5
PTQ		T. Parson, MN	1459
PJJ	15	J. Pastor, Spain	39
PKV		K. Paxson, TX	2
PN		A. Pearlmutter, MA	2
PEI	11	E. Pedersen, Denmark	42
PEG	01	C. Peguet, France	1216
PWD		W. Pellerin, TX	49
PIV		I. Peretto, Italy	25
PWM	05	W. Pessemier, Belgium	480
PVA	27	V. Petriew, Canada	32991
PGE	02	G. Petter, Germany	29
PRP		R. Pickard, Australia	6
PXR	20	R. Pickard, England	1930
PBN		B. Pickett, Australia	1
PKI		O. Piechowski, KY	10
PLQ	01	L. Pinatelle, France	358
PGU	18	G. Pinazzi, Italy	88
PHT		H. Pinkston, VA	21
PMZ	15	M. Pinto, Spain	18
PFB		F. Pires, Brazil	5
PIJ	03	J. Piriti, Hungary	342
PPL		P. Plante, OH	242
PPZ		P. Plaszczyk, Poland	16

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

Code	Org.	Name	No. Obs.
PDL	03	D. Plesa, Hungary	75
PAW		A. Plummer, Australia	9245
AST	12	R. Podesta, Argentina	22
PRX		R. Poklar, AZ	7904
PMO	10	M. Poll, South Africa	97
PRV		R. Potter, MI	27
PWR		R. Powaski, OH	16
POX		M. Poxon, England	939
PYG		G. Poyner, England	11749
PCJ		C. Predom, CT	9
PDD		D. Presley, GA	4
PAH		A. Price, MA	1
POB		R. Price, England	17
PUJ	06	F. Pujol, Spain	689
PHG		H. Purucker, Germany	328
PSY		S. Pyatih, Belarus	1
QPR		P. Queitsch, IN	3
QW	02	W. Quester, Germany	9
QNK	20	N. Quinn, England	729
RIO	27	I. Radine, Canada	3
RKE	02	K. Raetz, Germany	523
RBK		B. Ramotowski, NM	5
RTM		T. Ranka, India	70
RWA		W. Rauscher, PA	179
RUQ		A. Regnier, Argentina	2
RZQ		S. Reichel, Argentina	5
RFA		F. Reichenbacher, AZ	2242
RZS	03	Z. Reiczigel, Hungary	65
REP	24	P. Reinhard, Austria	393
RWG	02	W. Renz, Germany	26
RMQ		M. Reszelski, Poland	2085
RNA	03	N. Rezsabek, Hungary	52
RJG		J. Ribeiro, Portugal	4149
RIX	14	T. Richards, Australia	10089
RRZ	03	R. Ricza, Hungary	215
RRJ		R. Rios, CA	11
RIV		M. Rivera, Italy	7
RRX		R. Roberts, NY	2
RAE		A. Roberts, South Africa	51003
RCW		C. Robertson, KS	2477
RSE		S. Robinson, MD	513
RZD	06	D. Rodriguez, Spain	211
RHE	26	H. Rodriguez, Uruguay	4
RFC		F. Rodriguez Bergali, Spain	1329
RMU	06	M. Rodriguez Marco, Spain	43
ROE		J. Roe, MO	1034
RRO		R. Rogge, Germany	16
ROG		G. Ross, MI	204
RGN		G. Rossi, Italy	61
RR		R. Royer, CA	23
RJV	07	J. Ruiz Fernandez, Spain	19
RPH		H. Rumball-Petre, CA	9
REM		E. Rumbo, Australia	792
RTH		T. Rutherford, TN	166
RSV		S. Ryan, Ireland	1
RZM		M. Rzepka, Poland	823
SRIC		R. Sabo, MT	251
SJQ		A. Sajtz, Romania	1252
SSU		S. Sakuma, Japan	1146
SVP	15	V. Sallares Pujol, Spain	5
SVI		M. Sallman, MN	229
SQL	12	R. Salvo, Uruguay	6
SAH		G. Samolyk, WI	33909
SQU		J. Sanchez Lopez, Spain	86
SAR		A. Sandage, OH	10
SNL		J. Sandel, SC	22
SXY		A. Sankowski, Poland	29
SGX	03	G. Santa, Hungary	861
STC		G. Santacana, PR	19
SXQ	01	R. Santallo, French Polynesia	3
SSIM		S. Santini, Italy	127
SKI	03	K. Sarneczky, Hungary	339
SGE	27	G. Sarty, Canada	10
SSQ		R. Sass, NM	131
SVA		A. Saw, Australia	107
SFI	18	T. Scarmato, Italy	90
SXK	02	M. Schabacher, Germany	133
SCQ		T. Schell, TX	16
SFS		S. Schiff, VA	309
SJOE		J. Schlimmer, Germany	8
SPK	01	P. Schmeer, Germany	52
SHV	03	A. Schmidt, Hungary	126
SQE		R. Schoenstene, IL	26
SAND	02	A. Schumann, Germany	3
SCZ	01	E. Schweitzer, France	33
SCE		C. Scovil, CT	1
SXV		S. Seva, Argentina	5
SDF		D. Shackleford, CA	237
SHS		S. Sharpe, Canada	2859
SDP		D. Sharples, NY	11
SSA		A. Sharpless, WA	30
SFY		J. Shears, England	14023
SHW		W. Sherman, TX	6
SLH		L. Shotter, PA	748
SIG		D. Siegrist, MA	2
SPAO	18	P. Siliprandi, Italy	259
SNE		N. Simmons, WI	86
SDO		C. Simone, Argentina	3
SXN		M. Simonsen, MI	989
SANG		A. Sing, Philippines	74
SYI		E. Skrzynecki, Poland	5084
SDN		D. Slauson, IA	1
SAE	10	A. Slotegraaf, South Africa	6
SJX	10	J. Smit, South Africa	58
SDEW		D. Smith, TX	94
SHA		H. Smith, MI	79
SUI		R. Smith, England	355
SPV		P. Sobotka, Czech Republic	1
SKA	16	K. Sokolovsky, Russia	19
SBX		A. Sonka, Romania	145

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

Code	Org.	Name	No. Obs.
SYP		P. Soron, Canada	300
SWQ	13	W. Souza, Brazil	26
SJZ		J. Speil, Poland	2734
SMUS		M. Spicer, Canada	12
SSTE		S. Sposetti, Switzerland	30
SXR	03	M. Sragner Keszthelyi, Hungary	47
SBL	05	B. Staels, Belgium	13995
SBH		B. Standifer Jr., TN	159
STR		R. Stanton, CA	66
SDB		D. Starkey, IN	7570
SALE	09	A. Staroverov, Ukraine	63
SPET		P. Starr, Australia	1039
SJAT		J. Starzomski, Poland	133
SYO		T. Steck, IN	626
STF		G. Stefanopoulos, Greece	770
SRAN		R. Steffens Ii, TN	7
STI		P. Steffey, FL	724
SET		C. Stephan, FL	1404
SVAG		V. Stephanou, Greece	1
STIG		M. Stigliano, Argentina	3
SRB		R. Stine, CA	599
SOX		C. Stockdale, Australia	1778
STQ		N. Stoikidis, Greece	233
SDI	20	D. Storey, England	100
SFU		M. Streamer, Australia	26
SOLI		O. Strickson, England	2
SRX	14	R. Stubbings, Australia	1965
SUK		M. Stuka, CA	20
SAC	02	A. Sturm, Germany	321
SUS		D. Suessmann, Germany	322
SUH		M. Suhovecky, IN	1
SWV		D. Swann, TX	419
SSW		S. Swierczynski, Poland	5180
SOZ	03	L. Szantho, Hungary	1
SAO	03	A. Szauer, Hungary	241
SLY	03	L. Szegedi, Hungary	230
SYV	03	P. Szekely, Hungary	328
TUO		U. Tagliaferri, Italy	31
TXD	03	D. Tardos, Hungary	1
TDB	27	D. Taylor, Canada	845
TNX	14	N. Taylor, New Zealand	48509
TBA		B. Tekatch, Canada	57
TJV	01	J. Temprano, Spain	274
TPS	03	I. Tepliczky, Hungary	526
TFM		F. Teyssier, France	44
TTU		T. Tezel, Turkey	18
TJE		J. Thibodeau, OK	108
TGG		W. Thomas, CA	28
THU	01	B. Thouet, France	74
TIA	03	A. Timar, Hungary	88
TRE		R. Tomlin, IL	19686
TWP		W. Toomey, MA	6
TOO	03	J. Toone, England	2
TMH		M. Torabi, Iran	1
TJX	03	J. Toth, Hungary	213
TTJ	03	J. Toth, Hungary	180
TMQ	03	M. Toth, Hungary	29
TFR		F. Travaglino, Italy	113
TWA		W. Travis, MA	2
TRF		C. Trefzger, Switzerland	105
TDW		D. Trowbridge, WA	109
TVS		V. Tsamis, Greece	1
TSJ		S. Tsuji, Japan	1
TUB	03	V. Tuboly, Hungary	801
TXA		A. Tudorica, Romania	8
TYS		R. Tyson, NY	760
URS		R. Uyematsu, FL	4
VFR	01	F. Vaclic, Czech Republic	69
VST		S. Valentini, Italy	252
BVE	04	E. Van Ballegoij, Netherlands	2234
VDH	04	H. Van Den Hil, Netherlands	1
VDL	05	J. Van Der Looy, Belgium	3556
VDE	04	E. Van Dijk, Netherlands	143
VHD	05	D. Van Hessche, Belgium	64
VNL	05	F. Van Loo, Belgium	1203
VPJ		J. Van Poucker, MI	2
VUG	04	G. Van Uden, Netherlands	128
VVP	04	P. Van Vliet, Netherlands	106
VWS	05	J. Van Wassenhove, Belgium	71
VZP	10	P. Van Zyl, South Africa	72
VBH	05	H. Vandenbruaene, Belgium	81
VEF	05	E. Vanderfeesten, Belgium	6
VMT	05	T. Vanmunster, Belgium	37750
VKN		K. Vardijan, Croatia	6
VED	01	P. Vedrenne, France	8374
VET	01	M. Verdenet, France	5
VIA	01	J. Vialle, France	297
VLL		A. Villalobos, Costa Rica	14
VII	03	I. Vincze, Hungary	1
VJA	17	J. Virtanen, Finland	12
VGK		G. Vithoulkas, Greece	1856
VRM		R. Vivaldi, Italy	30
VPZ	03	P. Vizi, Hungary	369
VMH		M. Vlasov, Israel	1
VFK	02	F. Vohla, Germany	6155
VOL		W. Vollmann, Austria	197
VVC		V. Voropaev, Russia	3
VVE		V. Vrhovac, Croatia	22
WGD		G. Waddill, VA	28
WLY		L. Wade, MS	46
WJI	27	J. Wagner, Canada	48
WGR		G. Walker, MA	3354
WKR		T. Walker, CA	37
WAJ		J. Waller, OK	9
WBY		B. Walter, TX	123
WHN	03	H. Walter, Hungary	64
WJX		J. Wan, Australia	4
WSI		R. Wasatonic, PA	466
WNF		N. Wasson, CA	46
WCB		C. Webster, PA	180

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

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
WPT	10	P. Wedepohl, South Africa	114	WAS	02	A. Winkler, Germany	419
WDZ		D. Wells, TX	1866	WKM		M. Wiskirken, WA	7
WKL		K. Wenzel, Germany	367	WBT		R. Wolpert, CA	16
WEF		F. West, MD	404	WGO		G. Wood, NC	11
WJD		J. West, KS	128	WJM		J. Wood, CA	2806
WRP		R. Wheeler, OK	32	WVR		R. Wood, TX	30
WDO		D. Whelan, RI	937	WPF		P. Wright, MN	26
WAH		A. Whiting, WA	2	WUB	04	E. Wubbena, Netherlands	39
WPK		P. Wiggins, UT	14942	XWE		W. Xu, China	1
WJO		J. Wilder, CA	1	YDS		D. Yi, Korea	3
WEY		E. Wiley, KS	26	YBA		B. Young, OK	5
WSA		S. Wilfrid, Canada	10	YKA		K. Young, CA	13
WI		D. Williams, IN	1902	ZAG	03	G. Zajacz, Hungary	4
WIG		G. Williams, OH	4	ZAD		D. Zak, PA	57
WPX	14	P. Williams, Australia	48567	ZPA		P. Zeller, IN	227
WWJ	20	W. Wilson, England	697	ZDM		D. Zhdanok, Russia	4
WSN		T. Wilson, WV	693	ZIG		I. Zinchenko, Ukraine	42

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 Csillagàszati Egyesület, Valtózocsillag 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
24 Astronomischer Jugendclub (Austria)
26 Red de Observadores (Montevideo, Uruguay)
27 Royal Astronomical Society of Canada