ANNUAL REPORT OF THE DIRECTOR
FOR FISCAL YEAR 1979 - 1980

It is a privilege for me to present to you my seventh annual report for the fiscal year 1979-1980, a very active, challenging, and fulfilling year.

DATA PROCESSING

The processing of our observations is the key to the management of the data and thus it takes a high priority in our operation. This year, thanks to the grant from Clinton B. Ford for data processing, our current data were keypunched, verified, and processed within a month of receipt. This is a real asset in providing up-to-date data to the astronomical community.

The data between 1966 and 1974, the so-called "gap" data had been keypunched, but not completely verified or processed, and in the past several years we have tried to complete the verification of these data. Thanks to a grant from National Science Foundation, we have now completed the verification of the data and through additional funding in computer time from Harvard-Smithsonian Center for Astrophysics, and the perseverance and hard work of my assistant, Elizabeth Waagen, we have completed processing of the "gap" data. In the last month Elizabeth ran in the computer 325 boxes of cards - about 650,000 observations. Thus, our data from 1960, when our processing by computer started, to the present are all processed, sorted by star and date, on magnetic tape in machine-readable form and accessible to the astronomical community.

Our goal is to have all our data, since our founding, keypunched, verified, processed, and in machine-readable form, and thus have easily accessible 70 years of data files on a large number of variables in our program.

PUBLICATION OF DATA

AAVSO Report 30 containing light curves of long-period variables from 1963 to 1966 was the last report we published, in 1975. For several reasons, the publication of our observations has been delayed. These are:

1. Change of computer system at Center for Astrophysics. This required converting all our programs and data files to the new system, and at the time slowed our operation immensely.

2. Enormous increase in the amount of data to be published. Report 30 contained 250,000 observations. Report 38, in preparation, contains one-half million observations.

3. Bottlenecks in the preparation of the data for publication.

4. The absence of a high quality plotter in the new computer system.

I would like to elaborate on the last two items. The most time-consuming, but essential process in the publication of our data is the editing, which involves checking each observation for accuracy against others and deleting erroneous observations. Final checking, which has to be done by me, is a bottleneck due to my many other responsibilities. At this time we are trying to find ways to expedite this editing process.
Also, the Calcomp plotter on the old computer system has not been inter-
terfaced into the new system, and the available Versatec plotter does
not give reproducible quality graphs. Therefore, this year we search-
ed for other means of high-quality computer plotting of our data.
The FRS80 Graphics Computer of AVCO Computer Services met our needs
and after long negotiations, we have decided to use this graphics
computer. Our plotting programs have been converted to that system by
our member, Richard Szyszka, and we are trying to find ways to make
the use of this system most cost efficient so that we can afford it.
Our goals are to overcome the difficulties and to publish our reports.

AAVSO VARIABLE STAR ATLAS

The Variable Star Atlas project that we undertook in 1974 has now
been completed. We can be proud of this Atlas and congratulate Charles
Scovil for his excellent job. Final stages of the Atlas required a
team effort, and this summer we had to make this project a priority
and devote a major part of most of the staff's time.

SPECIAL REQUESTS

Variable stars are proving to be among the most important and ex-
citing fields of astronomy. As the search to understand the mysteries
of these stars stretches to both shorter and longer wavelengths of the
spectrum, the visual region sandwiched in between becomes that much more
important to correlate and interpret results. Thus, our contributions
to the field keep increasing by leaps and bounds.

Each year we receive more and more requests from astronomers for
our data, and this year was no exception. We received the largest
number of requests, 112, eight percent more than last year's record
high. We have filled all of these requests. This translates to about
one request for every two working days. Those of you who have visited
our Headquarters have often witnessed a call from an astronomer in
California, Texas, or Washington, who has an immediate need for our
data. We are playing an important and indispensable role in variable
star astronomy today.

This year's requests for data were on the following types of
variable stars in order of the number of requests we received:

1. Dwarf novae - U Gem and Z Cam type stars
2. Long period variables
3. Semiregular variables
4. Novae and recurrent novae
5. Symbiotic stars - Z And type
6. Unique stars like FG Sagittae
7. R Coronae Borealis stars
8. Nebular variables
9. Eclipsing binaries
10. RR Lyrae stars
11. RV Tauri variables
12. Cepheids

Requests came from astronomers throughout the United States and
around the world. A list of the special requests and a brief descrip-
tion of the content of each is given at the end of my report.

Here I wish to share some highlights with you. Our major contribu-
tion was the simultaneous observing of stars scheduled to be moni-
tored by several spacecraft, such as High Energy Astronomical Observa-
tory (HEAO-2), and the International Ultraviolet Explorer (IUE), and
also by large telescopes at Mt. Palomar, Mt. Lemmon, and Tenerife
Canary Islands. We participated in 20 observing programs, and our
simultaneous monitoring and continuous communication with the astronomers assisted them in the efficient use of their instruments.

Four times this year, Dr. Stephen Mayo and his colleagues from the Royal Greenwich Observatory in England were scheduled to observe the dwarf novae at outburst with the 150 centimeter infrared flux collector, at Tenerife, Canary Islands. The recent observing run also included simultaneous observing at Cape Town and with the IUE satellite. In each case, Dr. Mayo informed us of their stellar targets and requested that we inform them daily by phone which of the stars had reached maximum. You, our observers, kept a vigil during these times and kept me informed so that Dr. Mayo could be alerted.

Similarly, Dr. Hildebrand and his colleagues from the University of Chicago continued to observe at Mt. Lemmon, Arizona, the dwarf novae at outburst to detect the short oscillations on the order of seconds. The assistance that our observers provided was crucial to the success of their experiment. Dr. Hildebrand and Dr. Stiening wrote, "Our observing run was greatly assisted by the AAVSO observers. We are most grateful to them for their help and for the advice you gave us in planning for the run. An interesting result of our work was the detection of coherent oscillations with the period of 7.4 seconds from SS Cygni - the shortest period yet observed from such an object. The help which you give us is very essential for the success of our work."

Throughout the year we have been in communication with Drs. F. Seward and G. Fabbiano at the Center for Astrophysics and the guest investigators on the scheduling of the cataclysmic variables with HEAO-2. There are many questions that are still not answered. We still do not know the real causes of the outbursts, how the matter is being transferred from the cool companion and accreted onto the hot star, the nature of the accretion disc, the nature of the hot star, etc. Astronomers such as Keith Horne from the University of California, whom we recently assisted when he was observing at Mt. Palomar, are interested in how the spectrum, thus temperature, changes as these stars brighten. France Cordova is interested in correlating the data taken by IUE and HEAO-2 with our visual observations. Richard Wade is interested in the ultraviolet spectrum when these stars are at minimum. Our observers played an important role in the research of each of these astronomers. France Cordova wrote, "The real discoveries of these stars belong to the men and women who keep vigil on them."

The keen eye of our observers to catch the unusual behavior of the variables is very important. For example, when AM Herculis started to fade, many of you alerted me and I, in turn, called a number of astronomers who had requested to be informed when AM Her went down. As a result, very important observations were made at Kitt Peak and Mt. Hopkins Observatories for the first time when this star was in its low state. Recently, Dr. S. Tapia from Kitt Peak National Observatory wrote, "Thanks to your interest in these objects, I was able to observe AM Herculis during the cycle and confirmed that the polarization at 8500Å remains as large as when the star is bright. This result indicates that the luminosity of the M dwarf companion is negligible compared with the faint magnitude of AM Hercules. Thus, the under-luminous companion appears to be characteristic of those objects. I am grateful to you and the members of the AAVSO for the dedication and indispensable support provided to me."

Our data on other types of variables have been just as important. Our long-term data on Mira type variables are essential in understanding the mechanism of behavior in these stars, in understanding how they are pulsating, and in understanding the reasons for the change of period. Once again, Dr. Lee Anne Willson spent three days in our
office discussing many aspects of these stars and copying more of our
light curves to aid her theoretical study. When she showed a few of
our long-term light curves at an astronomical meeting in Italy, the
audience was amazed as to how well and for how long these stars were
being followed by the AAVSO. Our data on long period variables are in
high demand in scheduling observing programs aboard spacecraft or with
large telescopes at Kitt Peak. The data are highly esteemed. Let me
tell you an incident. A theoretical paper on long period variables was
recently submitted to the Astrophysical Journal, and the author had
given the phases of the stars in question using the data given in the
GCVS. The paper was returned to the author with a request that the
maxima and minima dates and phases be checked and be confirmed with the
AAVSO before re-submission. The author did, and the paper was published
shortly after.

Our data on novae and recurrent novae, on Coronae Borealis, and on
other types of stars were mostly used in correlating observations made
with the IUE or HEAO-2 or in the infrared region of the spectrum. Our
contributions to astronomy are being cited in many of the astronomical
papers. The following are a few:

Hjalmarson, A., Olofsson, H. 1979, "Time Variability
of R Leonis, o Ceti, and Orion A SiO Masers", Astrophys.
Journ., 234, L199.

186, 197.

Oscillations in an Outburst of a Dwarf Nova", Astrophys.
Journ., 238, L145.


Michalitsianos, A. G., et al. 1980, "IUE Observations of
Circumstellar Emission from the Late Type Variable R Aquarii",

During the meeting of the American Astronomical Society and the
Fifth Workshop on Cataclysmic Variables that I attended, I heard sev-
eral papers that referenced the AAVSO data, and many astronomers
praised our work. During the Workshop, Dr. Sumner Starrfield, who
was the chairman of one of the paper sessions, asked for a round of
applause for the AAVSO and said, "We owe a great debt to your observ-
ers. I hope you will convey it to them."

**ALERT NOTICES**

These permit me to reach interested observers and members when
there is a need for special observations. Everyone who is interested
receives these Notices free of charge if they mail twelve self-ad-
dressed stamped envelopes to Headquarters. This year we issued 6 reg-
ular and 3 special Alert Notices. They contained requests to monitor
cataclysmic variables during observing runs with IUE and HEAO-2 space-
craft, or at Tenerife, Mt. Lemmon, or Mt. Palomar Observatorys, and
to alert astronomers to the optical state of these stars; to monitor
the symbiotic star, CI Cygni, during scheduled runs with several space-
craft; special monitoring of EQ Mon, the U Gem star with an atypical
spectrum; close monitoring of HT Cys to verify its outburst period
and to observe its deep eclipses; following the behavior of AE Aqr
and recording its short period oscillations; standing requests to mon-
itor and inform astronomers of the minima of R Coronae Borealis stars
and the maxima of U Gem and SS Cygni outbursts. The Special Alert Notices were sent during Tenerife observing runs when it was necessary to focus the attention of observers who concentrate on observing cataclysmic stars, and the recent Special Alert Notice was issued to observe the predicted eclipse of the spectroscopic binary HR 913. I am grateful to you, our observers, for your tireless, unselfish, dedicated efforts to help special observing programs, to inform me on the unusual behavior of variable stars, such as AM Herculis, PU Vulpeculae (Nova Vulpeculae 1979), and the minimum of SU Tauri so that the astronomical world may be alerted. I thank each and every one of you for your astronomical contribution.

I wish also to express special thanks and appreciation to those who call or send notes to me on the unusual behavior of the stars before the regular report forms are sent in. These observers are: Jim Morgan, John Criese, Ernst Mayer, Paul Goodwin, John Bortle, Kenneth Medway, Tom Fetterman, Chris Spratt, Bob Annal, Dave Levy, Chris Stephan, Tom Bretl, Ken Beckmann, Michael Smith, Carolyn Hurless, Jack Davis, Dave Rosebrugh, Charles Scovil, Pat Madden, Clint Ford, Bob Ariail, Jim DeYoung, Gus Johnson, George Kelly, Lancaster Hiett, Glenn Chaple, Richard Hill, Steve O'Connor, Adrian Levesque, Keith Danskin, Charles Morris, Georg Comello, William Barksdale, Jim Eckendorf, Peter Collins, Steve O'Meara, Wayne Clark, Kenneth Sabine, and Paul Sventek.

SUMMARY OF OBSERVATIONS

We had a very active observing year. We received 177,424 observations from 371 observers. This is the highest yearly totals ever, and brings our grand total to 4,402,890. From 37 states in the USA came 113,622 observations and 63,802 (36%) observations came from observers in 25 foreign countries. Arizona leads the USA observations, and Canada the abroad ones. It is interesting to note that 36% of our observers have started to observe during last year.

Table I lists the number of observers from each country and their astronomical contributions; Table II from each state in the USA; and Table III is an alphabetical list of observers, giving each observers initial, name, location, the annual total of observations, and inner sanctum observations (13m8 or fainter, and/or "fainter than 14m0 and fainter").

Twenty-one observers sent in between 1000-2000 observations. Fifteen between 2000 and 3000. Gene Hanson (new observer) and Lancaster Hiett between 3000 and 4000. Paul Goodwin, Steve Sharpe, and Ernst Mayer between 4000 and 5000, Wayne Lowder and William Albrecht between 5000 and 6000.

Bernard Bois, 7383; Chris Spratt, 8549; and David Levy, 10895 observations.

Ernst Mayer leads the inner sanctum observations with 2138. Next comes Chris Spratt with 1049.

Our photoelectric observers were very active. Lance Allred, Russ Genet, Leonard Kalish, Kevin Krisciunas, Howard Landis, Richard Lines, Howard Louth, Thomas McPaul, and David Skillman contributed valuable data on long period and semiregular variables, eclipsing binaries, and suspected variables.

There was an active participation in the International Campaign to observe Mira photoelectrically and visually.
We are most grateful to all our observers for their astronomical contributions.

INTERNATIONAL COLLABORATION WITH OTHER VARIABLE STAR OBSERVERS' GROUPS

We continue our collaboration with several groups around the world. The observations made by the Variable Star Section of Royal Astronomical Society of New Zealand (RASNZ) on southern long-period variable stars are compiled by their conscientious member, Gordon Smith, and kindly sent to us by their Director, Dr. Frank Bateson. These observations are used in refining the predictions of maxima and minima dates of these stars in our Annual Bulletin, which is used by our observers, by the observers of the RASNZ, and by the astronomical community.

A fruitful and valuable collaboration which started last year between the French Variable Star Observers (AFOEV) and AAVSO continues. Throughout the year, Mr. M. Schweitzer, the recorder of AFOEV, has been kindly sending us observations by their members for inclusion in our data files and for publication with our data, with due credit to AFOEV. The AFOEV also participates enthusiastically in our special observing program for HEAO-2 and the IUE and other observing runs. In a recent letter, Dr. D. Proust, the Scientific Coordinator of the AFOEV, wrote, "The members of AFOEV are happy with the fruitful collaboration and wish to continue this with the AAVSO."

The members of the Astronomical Society of Southern Africa (ASSA) under the direction of Jan Hers, who is the Acting Director, contribute valuable data on southern variables. We are confident that our fruitful collaboration will continue with the enthusiastic observers of ASSA, under the direction of Danie Overbeek, who is now back in South Africa from his sabbatical in the USA, and Jan Hers.

The Hungarian Variable Star Observers continue to send observations to the AAVSO. We cherish the observations of the Berlin, Belgium, and Austrian variable star groups and Japanese Astronomical Study Group.

We continue to exchange literature with groups and institutions in Brazil, Argentina, Mexico, England, Spain, Italy, Netherlands, Scandinavia, West and East Germany, Poland, the Soviet Union, India, Japan, China, Taiwan, and Australia.

COMMUNICATION

Until recently one of our major problem areas was handling the enormous amount of correspondence that we receive. Quite often we answered letters late or sometimes not at all, due to lack of staff at Headquarters. Thanks to Clinton Ford's grant for communication, two years ago we added a part-time secretary to help with the immense correspondence. We have been working very hard to overcome the problem.

We are trying several methods of handling the correspondence expeditiously and we hope before long we will be up-to-date and keep up with the incoming correspondence. I ask our members for their understanding and patience. Although each piece of correspondence is important in its own right, we have to set priorities when we answer the letters. This year I personally answered about 625 letters, not including short notes. That transcribes to about 3 letters for every working day. I have also acknowledged the annual contributions of each observer. From time to time observers are alerted on the improvements they can make on their observing and reporting of observations. From January to October we have mailed about 3200 pieces of mail from our Headquarters, excluding the mailing of publications and other
material we send to all the membership. Headquarters is a very busy
place!

REQUESTS FOR INFORMATION AND NEW MEMBERSHIP

We have received 568 requests for information about the AAVSO.
The number of these requests has immensely increased since the appear-
ance of articles about AAVSO in Sky & Telescope this year. This year
we have elected 109 annual and 4 sustaining new members. Twenty three
members changed from annual to sustaining membership, thus helping to
support the Association on a larger scale.

We have sent several Observing Kits to institutes and groups and
have helped to set up observing programs in several schools. I have
given talks on the AAVSO and variable stars at Boston University, Maria
Mitchell Observatory, in a joint university program on science and
technology, at Massachusetts Institute of Technology, Newton High
School, and to youth groups in Lowell. Many of our members act as am-
bassadors of AAVSO in their communities by giving talks about variable
stars and by encouraging individual astronomy enthusiasts. Special
thanks go to all those who publicized the AAVSO and helped to bring
new members to the Association.

I wish to remind you that our sponsorship program is still alive.
There are several observers in Hungary who wish to be members of the
AAVSO and receive our membership publications, but they are unable to
do so because they cannot send money abroad. I encourage you to spon-
 sor observers in Iron Curtain countries and give them the opportunity
to benefit from our publications.

PUBLICATIONS

The following have been published by the AAVSO this year:

The Journal of the AAVSO, Vol. 8, Nos. 1 and 2, edited by Charles
Whitney.

AAVSO Bulletin #43: Predictions of Maxima and Minima Dates of

AAVSO Bulletin #43 Supplement: Schematic Representation of the
Data in Bulletin #43, compiled by Peter Taylor and Josefa Manella.

AAVSO CIRCULARS: Numbers 107 to 120, edited by John Bortle and
Charles Scovil.

SOLAR BULLETIN: Vol. 35, No. 9 to Vol. 39, No. 10, edited by
Casper Hossfield. Sunspot numbers computed by Peter Taylor and Solar
Flare Data partly analyzed by Bruce Wingate.

EPHEMERIS OF ECLIPSING BINARIES AND RR LYRAE STARS FOR 1980:
Prepared by Donald Livingston and Marvin Baldwin.

AAVSO PHOTOELECTRIC PHOTOMETRY NEWSLETTER: Edited by David
Skillman and Howard Landis.

PREDICTED MAXIMA OF BRIGHT STARS: Prepared by J. A. Mattei and
published in the Royal Astronomical Society of Canada's Observers'

Articles were published in the Journal of the Royal Astronomical
Society of Canada by J. A. Mattei with the following titles:


Sincere appreciation and thanks are due to Charles Whitney for his editorship of the Journal; Steve Siock and Agnes Meaney for their assistance in preparing the Journal; Editorial Board for their help refereeing the articles; Peter Taylor and Josefa Manella for compiling the data for Bulletin #43 Supplement and to Peter for computing monthly sunspot numbers; John Bottle and Charles Scovil for publishing the Circular; Casper Wossfield for publishing the Solar Bulletin; David Skillman and Howard Landis for publishing the AAVSO Photoelectric Photometry Newsletter; Donald Livingston and Marvin Baldwin for preparing the Ephemera of Eclipsing Binaries and RR Lyrae Stars.

EDUCATION AND TRAINING PROGRAMS

In the past two years, Clinton Ford and I have had a special project of checking each preliminary chart of a variable with the data obtained. The project is now completed. We found several stars that needed further work to confirm identification or variability or type of variation. With a special grant from Clinton B. Ford, we hired Heidi Hammel, an M.I.T. student of astronomy, to complete the checking of these stars using the Harvard Plate Stacks. Heidi found several cases where the identification of the variable had to be revised. This project has been extremely valuable in improving our charts. Heidi also worked on the period analysis of three variables and compiled data to help to refine the predictions of maxima and minima of variables with preliminary charts.

Dr. John Steiner, a visiting astronomer from Brazil at the Center for Astrophysics, is very interested in U Gem stars. Throughout the year he came to visit our office and examine our light curves and commented how valuable it would be to analyze them. During one of his visits I suggested that one way to expedite the analysis would be to have one of his students do it, and the next thing I knew he was telling me that he had invited one of his students from Brazil to analyze the very interesting cataclysmic variable, SU Ursae Majoris. His student spent two months in the office and did a very thorough job of compiling and analyzing the data. This work will be published as part of his thesis.

Michael Suchko of the Astronomy Department of Boston University volunteered to help analyze the data on Z Ursae Majoris.

Martha Lillers's mother, Mrs. Catherine Hazen, wished to volunteer her time to something worthwhile so Martha suggested the AAVSO. Mrs. Hazen has been with us since the summer and she has been very carefully compiling data on the outburst of U Gem stars, a project of utmost importance in understanding these stars.

Dina Ventura from Hampshire College volunteered her time this summer to also compile the outburst data of U Gem stars.

PERSONNEL

We have a great staff at our Headquarters right now. We work as a team and we realize that each of us is an important link in the chain of operation. Let me introduce you to the staff of Headquarters.

The data entry, that is, the keypunching and verifying of the observations, is done by Bethune Kelly and Barbara Silva. Both Bethune
and Barbara came to the AAVSO from the CETA program. After their training period, we were able to hire Bethune under the National Science Foundation Grant and Barbara under the Clinton Ford Data Processing Grant. They are excellent and very careful keypunchers.

The general operation of our office, mailing, processing of new members, change of addresses, filling chart orders, are all handled by our very conscientious and hardworking, capable secretary, Dorothy Haviland.

Elizabeth Waagen, my very dedicated and competent assistant, acts as my right arm. She handles the complete processing of the data, keeps the mailing list up-to-date, prepares the data for special requests, and assists me with correspondence and publications. It is through her hard work that we were able to process the "gap" data.

Beside the four full-time staff mentioned we have several part-time employees. Agnes Meaney, our excellent correspondence secretary, is determined to help me overcome the backlog of correspondence. Recently we added Mary Collins, another very competent secretary, to help Agnes with the correspondence. Jill Gustafson of Harvard University helped us in clerical work and final preparation of the Atlas. Our member, Richard Strazdas, continues to be indispensable in our data processing, particularly in converting our programs to the AVCO Computer System and general consultation in data processing.

ACKNOWLEDGEMENTS

AAVSO cannot operate by one person, or one committee alone. It operates with the efforts of many.

We are grateful to Harvard-Smithsonian Center for Astrophysics for allowing us to use the computer facilities and for the grant in computing time which allows us to process our data. We thank Dr. Owen Gingerich for making this grant possible and Barbara Welther for her valuable help and suggestions in data processing and computer funding from the Center for Astrophysics.

We greatly appreciate the help and support given to the AAVSO by Computer Facility personnel of the Center for Astrophysics.

We thank Dr. Martha Liller, the curator, and Jackie Kloss, the acting curator, of Harvard Plate Stacks for allowing us to use the Harvard Photographic Plates for variable star research and chart work.

We gratefully acknowledge the Clinton B. Ford Grants for data processing and correspondence and the special summer research assistantship.

We are very thankful to the National Science Foundation for the grant made to process our "gap" data, to publish the recent data, and for the travel grant to allow me to attend astronomical meetings.

The National Oceanic and Atmospheric Administration has supported our Solar Division for over two decades. We appreciate the trust they have bestowed on the AAVSO solar observers and for their continued and increasing financial support.

We remember our devoted members, the late Cy and Emily Fernald, who generously supported the association during their lifetime. They continue to support the association with the trust fund they have bequeathed to the AAVSO.
We thank Stamford Observatory for making available the facilities to Charles Scovil for the preparation of AAVSO new charts, the Atlas, and the Circular, and for allowing the 21-inch telescope to be used for special observing programs of the AAVSO.

Our sincere thanks to Margaret Mayall for her tireless efforts in the checking and rechecking of the Atlas which made it possible to publish an Atlas that we can be proud of for its accuracy. We are grateful to Margaret for this and for giving her time and wisdom so generously whenever needed.

Keith Danskin helps us in the office work whenever his flight schedule permits. Our thanks to him.

I extend our appreciation and thanks to members who have taken sustaining membership and who gave above their dues to the General Fund, Margaret Mayall Assistantship Fund, or the Endowment Fund.

Special thanks go to members who made a donation in the memory of our beloved member, Leslie Peltier.

I thank my husband for his support, encouragement, and patience, especially with my working hours and for all the telephone calls that I get -- often in the middle of the night.

My sincere thanks go to all the committee chairmen, officers, members, and to the observers of our association, the unsung heroes of AAVSO.

Let us continue and grow in our efforts to make our association even better.

Respectfully submitted,

Janet Akyüz Mattei
Director
LIST OF SPECIAL REQUESTS
DURING FISCAL YEAR 1979-80

Acker, A., U. Louis-Pasteur, France. Light curve of FG Sge to compare with the radial velocity results for kinematical study.

Ashok, N. M. et al. Physical Research Lab., India. See under Kulkarni, P. V.

Adelman, S. J., The Citadel, Military College of South Carolina. Information on bright, pulsating variable stars (Cepheids and RR Lyrae variables) to set up a spectrophotometric observing program.

Augason, G. C., NASA Ames Research Center. Recent light curve of α Ori.

Projected phase and magnitude estimate, and predicted maximum and minimum dates for Ρ Aql to schedule observations.


Bond, H. W., Louisiana State U. Light curve of AY Lyr to determine the type of the outburst (narrow or wide - supermaximum), on Oct. 22, 1979. AAVSO data were crucial in interpreting the interesting spectra obtained during this outburst.

Brecher, K., Boston U. Longterm light curve of α Ori and FG Sge for analysis.

Buhl, D., NASA Goddard Space Flight Center. Light curves of Mira variables Α Sr, Α Aql, Α Hya, Α CrB, Χ Cyg, and Χ Sgr to correlate with radio observations.

Catchpole, R. M., South African Astronomical Obs. Information on historical AAVSO lightcurves of Mira variables.

Clark, F., NASA Goddard SFC-U. Kentucky. Date and brightness of the maximum in April, 1980, and projected phase and magnitude estimate for July 7 on R Hya, to correlate with radio observations.

Coleman, L., U. of Texas. Light curve and reprint of article on WZ Sge.

Cordova, F., Los Alamos Scientific Lab. Observations on ΣY Cnc, ΥC Leo, ΥC Hya, AB Dra, MV Lyr, WZ Sge, and EM Cyg to correlate with X-ray observations from HEAO-2.

Information on the visual behavior of EQ Mon. No maximum recorded in the recent years. Its spectrum and x-ray data peculiar, and not typical of a cataclysmic variable.

Simultaneous optical coverage and immediate notification of outbursts of U Gem and Z Cam stars during IUE observing run.

Light curves and listing of individual observations on AH Her, SU Uma, ΣY Cnc, and AY Lyr.

Listings of individual observations on AY Lyr, V438 Cen, HT Cas, AB Dra, WX Hya, RS Oph, SU Uma, GK Per, AH Her, Χ Leo, U Sco, V1017 Sgr, T Pyx, and ΣY Cnc to correlate with X-ray data from HEAO-2.


Information on the longterm behavior of U Gem to assist the scheduling of HEAO-2.


Crowe, R., U. of Toronto. Light curves from 1977 to 1980 on 17 Mira variables to compare spectral with optical light variations. AAVSO Bulletin 43 to schedule further observations.

Cunningham, E., Hatfield Polytechnic Obs., England. Listing of individual observations on RY Tau, T Tau, SU Tau, RW Aur, XX Cam, SU Tau, R CrB, GU Sgr, SV Sge, RY Sgr, V482 Cyg, and UV Cas to correlate with infrared observations.

Further listings of observations on R CrB and T Tauri type stars.
Dabrowski, J. P., Fayetteville State U. Information on the location and the basic characteristics of V644 Cen, R2 Cnc, AR Pav, V383 Sco, and BL Tel, to help set up an observing program.

DeGioia-Eastwood, K., U. of Wyoming. Light curves of 36 longer period variables from 1977 to 1980 to determine the phase of infrared observations.

Dickinson, M., National Geographic Magazine. Statistical data on Cepheids and RR Lyr type variables to be used in the National Geographic book, Our Universe.

Dunham, D., IOTA. Optical behavior and finding chart of S Sco for occultation observations.

_____ Light curve and projected brightness of X Cnc for observing its occultation.

Feibelman, W., NASA Goddard Space Flight Center. Variability information and finding chart of CL Sco to be used during IUE observation.

Fu, F., World Book Encyclopedia. Information on the physical parameters of Deneb and Antares.

Guinan, E., U. of Villanova U. Longterm optical and photoelectrical data on X Per; information on V Sge, the elements of its eclipses; and light curve of the recent outburst of W2 Sge.

Hall, A., Newtonville, MA. Information on Julian Day calendar.

Hayes, D., Columbia U. Longterm lightcurve of α Ori to correlate with polarimetric observation.

_____ Lightcurve of Mira.


Hildebrand, R., U. of Chicago. Light curve and listing of individual observations of SS Cyg to correlate with the high speed photometric observations. An interesting result of this work has been the detection of coherent oscillations with a period of 7½ seconds from SS Cyg - the shortest period yet observed from such an object.

_____ Pre and simultaneous optical coverage and immediate notification of outbursts of U Gem and Z Cam stars to assist high speed spectroscopic observations from Mt. Lemmon in June, 1980.

_____ Listing of individual observations of AH Her to assist the analysis of very rapid oscillations of this object.

_____ Simultaneous optical coverage and immediate notification of outbursts of U Gem and Z Cam stars, during observing run from Mt. Lemmon in October, 1980.

Hill, D., Tucson, AZ. Longterm light curve of R Lyrae for analysis.


Iijima, T., U. De Padova, Italy. Light curve of V Sge to correlate with spectroscopic observations.

Inoue, T., Falmouth, MA. Light curves of VY UMa, RU Cep, and R Lyrae for analysis.

Jacchio, L., Harvard-Smithsonian Center for Astrophysics. Information on the optical behavior of novalike object in Vulpecula (1979) to include in his book on variable stars.

Jensen, K., California Inst. of Tech. Simultaneous optical monitoring of AH Eri during HEAO-2 observing run.

_____ Simultaneous optical coverage of V1017 Sgr, TT Ari, HT Cas, V350 Ori, and AH Her during IUE and HEAO-2 observing runs.

Jewell, P., U. of Illinois. Light curves of IK Tau, R Leo, R LMi, S CrB, WX Ser, U Her, R Aql, and R Cas.

_____ Longterm light curve of U Ori, and date and magnitude of maximum in 1979.

Kelley, G., Glade Spring, VA. Longterm light curves of SZ Lyrae for analysis.
Knapp, J., California Inst. of Tech. Light curve of Mira to correlate with radio observations.

Ku, W., Columbia U. Listings of individual observations of Orion variables to correlate with x-ray data from HEAO-2.

Kulkarni, P. V., Physical Research Lab. Light curve and listing of both visual and photoelectric observations on X Per to correlate with new infrared observations.

Kulkarni, P. V. et al., Physical Research Lab., India. Information about the types, observations, finding charts and publications of data on dwarf novae observed by AAVSO, in order to set up a ground-based, new infrared photometric observing program.


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Mayo, S., Royal Greenwich Obs., England. Immediate notification of outbursts of U Gem and Z Cam stars between Nov. 14 and 29 in order to monitor them with the 150 cm. infrared flux collector in Tenerife, Canary Islands.

____, Immediate notification of the outbursts of cataclysmic variables between Feb. 8 and 21, 1980, to assist infrared observations at Tenerife.

____, Immediate notification of outbursts of cataclysmic variables between May 2 and 22, 1980 to assist infrared observations at Tenerife.

____, Immediate notification of outbursts of cataclysmic variables between Aug. 5 and 11 in order to monitor them simultaneously with IUE satellite, infrared flux collector, and large optical telescope.

____, Light curve and listing of individual observations of U2 Ser for correlation with infrared data.


McLean, I., U. of Arizona. Light curve of Mira during the International Mira Campaign when simultaneous observations were obtained in different wavelengths with different measurement techniques.

Merrill, M., Kitt Peak National Obs. Light curves of V1668 Cyg and Wz Sge, and finding charts for V1668 Cyg and the supernova in M100.

Michalitsianos, A., NASA Goddard Space Flight Center. Finding charts of SY Mus, RX Pup, and FN Sgr for identification with IUE.

____, Light curve of R Aql for correlation with IUE data.

Muñson, S., Indiana U. Historical light curve of X Per.


Noah, P., U. of Toledo. Historical light curve of X Oph for correlation with spectroscopic observations.

Nordsieck, K. H., U. of Wisconsin. Standing request to be alerted of the outbursts of SS Cyg in order to gather spectropolarimetric observations during maxima.

____, Light curve of SS Cyg.

Olofsson, H., Onsala Space Obs., Sweden. Light curves of R Cas, X Cyg, R Aql, and U Ori for correlation with radio observations.


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Pop, V., Observatorii Astronomic, Romania. Copies of AAVSO articles on XZ Cyg.

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Proust, D., Observatoire De Paris, France. Maxima and minima dates and magnitudes of Mira from 1896 to present, to determine period change.

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Simultaneous optical observations of AY Lyr, YZ Cnc, SU UMa, WX Hyi, VW Hyi, Z Cha, CU Vel, V436 Cen during scheduled IUE observations.

Listings of individual observations of YZ Cnc, AH Her, SY Cnc, EM Cyg, and RX And for correlation with the IUE and optical spectroscopic data.

Listing of individual observations of AY Lyr during its super-maximum in May, 1980.

Tapia, S., U. of Arizona. Light curve of R Aql for correlation with polarimetric data. Information on the fading of AM Her.

Tomaszewski, L., U. of Western Ontario. Light curves and listings of individual observations of Mira, μ Cep, V CVn, and χ Cyg.

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Light curves and listings of individual observations of RX And, YZ Cnc, U Gem, and SS Aur for correlation with IUE observations.

Light curves of 27 cataclysmic variables to correlate with the multichannel spectroscopic data.

Photoelectric data on the bright spectroscopic binary HR 913.


Webbink, R., U. of Illinois. Light curve of the old nova V841 Oph (nova 1848).

White, J., Downey, CA. A selected list of variables to be used in the Promonic - photographic nova search program.

White, N., Lowell Observatory. Historical light curve of α Ori.

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Willner, S., U. of California. Light curves of R And, RX Boo, R Lyn, V CVn, V CrB, T Dra, and R Aql from 1976 to present.

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Willson, L. A., Iowa State U. Spent 3 days at HQ, copied significant number of light curves of longperiod and symbiotic variables to aid her in the theoretical studies of these stars.

Witkoski, M., Camp Hill, PA. A list of supernovae to be used in the article in Astronomy.

Wolf, B., Astronomisches Institut der Universität, Germany. Information on the discovery of V1668 Cyg.

Wu, C., Computer Sciences Corporation. Listings of individual observations and light curves of SU UMa, Z Cam, SS Aur, EM Cyg, and AR And for correlation with IUE data.

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117
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| ALG | G. S. Aldering, MI | 6 | CDA | A. Coulombe, Canada | 28 |
| ALL | L. Allred, MN | 266-PEP | CR | T. Cragg, Australia | 2906-668 |
| AJR | J. R. Andrews, OH | 65-3 | CDS | D. Cross, Canada | 64 |
| AWR | R. Andrews, OH | 89 | CRR | R. E. Crumrine, NY | 236 |
| ANN | R. J. Annal, CA | 2220-852 DAE | EAE | E. Dalos, Hungary | 79 |
| ARI | R. B. Ariail, SC | 888-117 | DAN | J. Danko, Hungary | 11 |
| ASZ | J. Asztalos, WI | 11 | DAK | K. Danshin, NH | 41 |
| ATW | P. Atwood, CT | 147 | DSE | E. C. DaSilva, Brazil | 1 |
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| BM | M. E. Baldwin, IN | 3790 | DV | G. Davidson, KS | 157-5 |
| BRM | R. M. Bales, OR | 48-2 | DAJ | J. Davis, MD | 125-20 |
| BBW | W. W. Barbin, PA | 118-3 | DMS | M. S. Davis, CA | 38 |
| BMW | W. S. Barksdale, FL | 594 | DCS | L. DeLacceys, Hungary | 27 |
| BSB | S. F. Barnhart, OH | 293-24 DGR | R. C. DeGrave, MI | 16 |
| SSR | S. Baroni, Italy | 247 | DEP | T. Descoffee, MA | 72 |
| BB | R. S. Bates, MA | 194 | DEY | J. A. DeYoung, VA | 1434-87 |
| BAU | J. Bauer, W. Germany | 541-7 DMN | R. Dierick, Belgium | 780-140 |
| BAE | A. Beaman, IL | 3 | DRG | P. Diethelm, Switzerland | 52-21 |
| BBA | B. B. Beaman, IL | 609-56 DIL | W. G. Dillon, TX | 129 |
| BCJ | C. J. Beaman, IL | 23-1 | DCH | C. Doerr, OH | 11 |
| BKY | E. K. Beaman, IL | 43-3 | DMR | R. E. Domen, OH | 11 |
| BEJ | J. Beaver, OH | 112-1 | DUR | M. V. Duruy, France | 409-1 |
| BKK | K. Beckman, MO | 1895 | DGP | G. Dyck, MA | 9 |
| BTW | T. Benner, PA | 156-2 | ECJ | J. H. Eckenrodf, AZ | 596-90 |
| BSB | S. B. Benici, OH | 3 | ECK | C. Eckert, W. Germany | 267-2 |
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| BSG | G. S. Berns, CA | 1 | ECL | C. L. Evans, VA | 10 |
| BTG | A. Biloideau, CA | 80-41 | FRW | W. B. Farrar, Jr., NM | 302-48 |
| BKN | A. Birkner, IL | 81 | FCA | A. C. Fausel, MI | 241 |
| BLD | D. L. Blane, S. Africa | 34 | FEN | A. Penyvesi, Hungary | 28 |
| BOH | D. Böhme, E. Germany | 1328 | FJO | O. Ferreira, Brazil | 5 |
| BOI | B. Bois, Canada | 7383-235 | FET | T. I. Fetterman, NJ | 769-72 |
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| BKJ | E. Bortle, NY | 2034-599 | FLT | R. W. Fleet, Zimbabwe | 236-8 |
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| BFW | P. W. Bradshaw, CT | 4 | FEM | E. M. Flynn, IL | 851-12 |
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| BTG | T. G. Browning, OR | 19 | FRJ | J. Fragola, NY | 15 |
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| BPE | P. E. Burke, Australia | 33 | FR | E. E. Friton, MO | 171 |
| BUS | R. Buss, ND | 136 | FMG | G. C. Fugman, WI | 13 |
| BUL | T. Butler, MO | 84 | GDB | D. Gabor, Hungary | 895 |
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| CWA | W. Campbell, Canada | 504-8 | GDR | R. P. Gardner, CA | 42 |
| CJA | J. A. S. Campos, S. Africa | 161 | GEN | R. M. Genet, OH | 52-PEP |
| CAN | R. E. Canada, AL | 6 | GJA | A. J. George, Jr., OR | 47 |
| CJR | J. R. Caruso, NY | 61 | GHO | L. H. Ghio, Argentina | 13 |
| CIT | M. Cavagna, Italy | 297 | GGI | G. Giannotta, Italy | 65 |
| CQF | C. F. Chaple, Jr., MA | 3 | GLF | P. Glenn, NY | 454 |
| CLK | W. Clarke, MO | 202 | GLW | G. Glenn, NY | 455 |
| CDB | E. W. Clement, FL | 164 | GOP | P. N. Goodwin, LA | 4017-546 |
| CLB | R. Clyde, OH | 97 | GLM | L. M. Gorski, IL | 74 |
| CLO | A. Cole, FL | 31 | GHJ | J. H. Grant, SC | 17 |
| COL | P. L. Collins, MA | 318-12 | GRI | J. W. Greie, CT | 2082-1005 |</p>
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**Notes:**
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- SGP: P. Stegmann, NJ 18
- SHY: H. M. Steinbach, W. Germany 18
- SZH: J. M. Stelzer, IL 26
- SET: C. Stepanian, OH 483-22
- SFP: G. Stephanopoulos, Greece 254
- SWE: R. J. Steward, NJ 18
- STQ: N. Stoikidis, Greece 166
- SJL: J. L. Slater, OH 14
- SVN: P. Sventek, CA 203-7
- SMZ: M. Szasz, Hungary 20
- SSK: B. Sioke, Hungary 381
- FPJ: P. J. Tamas, Hungary 35
- TNC: V. Tangney, WI 6
- TZR: R. Tanzer, NJ 11
- TLA: M. D. Taylor, England 8
- TM: H. D. Thomas, WA 932
- TJB: J. B. Thompson, FL 10
- THR: R. Thompson, Canada 169
- TAN: A. Tolgyesi, Hungary 545
- TFP: F. N. Traynor, Australia 4
- TDM: D. M. Trolley, IL 826-3
- TUB: V. Tuboly, Hungary 49
- TDK: D. T. Turner, NY 22
- TYS: R. L. Tyson, NY 185
- TUB: E. Underhady, CA 197
- VCP: P. Van Cauteren, Belgium 13
- VNL: F. R. Van Loo, Belgium 349
- VAA: A. L. Vasconcelos, Brazil 20
- VET: M. Verdenet, France 787-201
- VWY: W. Verhaegen, Belgium 10
- VIN: J. V. Vincent, Zimbabwe 322-6
- VLJ: J. Volhard, WI 42
- VOK: K. Volkmer, CA 325-4
- VOL: W. Vollman, Austria 2251-2
- WGM: M. S. Wagner, IL 46-3
- WGG: G. J. Waffen, OH 4
- WLL: H. J. Walls, TX 11
- WRN: R. Warden, PA 36-8
- WAB: B. D. Warner, SC 34-1
- WNF: N. F. Wasson, CA 11
- WKK: K. W. Watts, CA 1
- WBB: W. V. Webb, OH 624
- WER: R. J. Weber, KS 106-10
- WED: G. J. Wedemeyer, WI 117
- WEM: M. Wesolowski, Canada 785-6
- WEF: F. West, AL 374
- WTJ: J. West, TX 24
- WES: R. F. West, IN 45
- WYT: T. Weyenberg, WI 4
- WTE: E. S. Whitt, SC 83
- WLD: D. J. Williams, TN 4
- WLP: P. Wils, Belgium 1131-94
- WJA: J. A. Wilson, MO 547
- WLK: K. Wilson, CA 21
- WTA: T. A. Wilson, LA 40-1
- WSF: T. W. Wilson, WV 1851-334
- WNB: B. Wingate, NJ 4295-2
- WWR: W. R. Winkler, CO 4
TABLE III - AAVSO OBSERVERS 1979-80

YON R. R. Young, PA 150- 1 ZT  R. Zit, WI
ZAF J. Zaffi, Venezuela 82  ZW  W. Zukauskas, Canada
ZAD D. Zak, NY 32

* * * * *

TREASURER'S REPORT: YEAR ENDING SEPTEMBER 30, 1980

RECEIPTS

Dues: Annual (jr.) 110
      Annual (reg.) 3366
      Sustaining 3611
      New Members and Application Fees 1526
      Contributions (unrestr.) 10516
      Subscriptions 2857
      Charts & Atlases 3769
      Chart Catalog & PEP man. 226
      Misc. Sales 1869
      N.O.A.A. Grant 2584
      A.A.V.S.O. Circular 879
      Book Sales 530
      Meetings 3399
      Misc. Deposits 2119
      Payments rec'd for Data 1654
      Endowment Income 48959
      C. Fernald Trust 1141
      E. Fernald Trust 1135
      Transfers from Ford Grant 7200
      Transfers from NSF Grant 2526
      Ford Summer Asst. 2000

EXPENDITURES

Salaries & Taxes 49695
Rent 11330
Lights & Heat 1542
Printing 1422
Eclipsing Binaries/RR Lyr 307
Health Insurance 477
Cost of Books 226
Charts & Atlases 2197
Telephone 1119
A.A.V.S.O. Circular 801
Journal 2106
Memberships/Subscriptions 72
Mailings 3048
Meetings 3366
Insurance & Alarm 1221
General Office 2544
Solar Division 2311
Data Processing 2789
Cost of Goods 1663
Miscellaneous 1159
A.A.V.S.O. Atlas 2625
Copying costs 557

TOTAL  $ 101976  $ 92577

Theodore H. N. Wales - Treasurer

AUDITOR'S REPORT

I have examined the books of account, the check book, Savings Bank books, Investment Review of the New England Merchants National Bank, the Treasurer's Report, and find them all in order, and fairly represent the financial status of the AAVSO.

Carmen L. Wilkerson-Montout, Auditor

121