ANNUAL REPORT OF THE DIRECTOR

FOR FISCAL YEAR 1983-1984

It is my privilege to present to you my eleventh annual report, for the fiscal year 1983-1984. I will cover the various areas of our operations.

DATA MANAGEMENT

I am delighted to report to you a milestone in our observational record. The 5,000,000th observation added to the AAVSO data files was made by Paul Vedrenne, France, who observed BF Cygni and reported his observations in October, 1983.

1. Current Data Processing: We continue to be up to date with the computerization and processing of current incoming observations, using the microcomputer systems at Headquarters and the Digital VAX computers at the Harvard-Smithsonian Center For Astrophysics.

We have also computerized, processed, and included in our data files all observations received from groups of variable star observers worldwide such as the French and the Dutch.

- 2. Computerization of Archival Data Published From 1911 to 1963: This project is crucial for the security, preservation, accessibilty, and scientific investigation of these data. The computerization of the data is continuing at a slow rate, due to lack of funds and therefore a limited staff. We are currently computerizing observations of observers whose last name begins with "C." This is about 20% of the 2,000,000 observations to be computerized.
- 3. Publication of data: I regret to report that because of lack of funds, very high printing costs, and the demand for data covering more than 3 years, the publication of Reports 39, 40, and 41 has been halted. Instead, we have decided to publish 20-year light curves (from 1963 to 1984), in the form of monographs, one star per monograph. The printing of each monograph will be cheaper, and the 20-year data will provide sufficient information for analysis of the longterm behavior of each star. I am happy to report that the International Astronomical Union has strongly endorsed this project and has granted the AAVSO some funding for publication of the monographs.
- 4. Maxima and Minima of Long Period Variables from 1950 to 1975: The compilation of data for this project has been completed, and this colossal work will be published once the compiled data have been given a final check.

SPECIAL REQUESTS

Requests for AAVSO data from the astronomical community and others continue to increase. This is a testimony in itself to the importance and the value of our data in variable star research.

This year we have supplied data for a record high number of 162 requests from astronomers and students throughout the United States and abroad. A list of the names of individuals making the requests, with their affiliation and location, is given in Table IV at the end of my report. Figure 1 is a graph of the number of special requests filled each year since 1974.

The list below and also Figure 2 show the types of variable stars for which data were requested.

- Cataclysmic variables dwarf novae (38%), novae, recurrent novae, and novalike (12%)
- Long period variables (18%)
- Semiregular variables (11%)
- 4. Symbiotic Z And type (6%)
- 5. Cepheids, quasars, and BL Lacertae stars (3%)
- 6. The Sun (3%)
- 7. R Coronae Borealis stars (2%)
- 8. RV Tauri stars (2%)
- 9. Eclipsing binaries (2%)
- 10. Irregular variables (2%)
- 11. Nebular variables (1%)

Categorized below and shown in Figure 3 are the areas in which AAVSO data and services have been used.

- 1. Data correlation (30%): AAVSO data have been used to correlate photometric and spectroscopic data in the radio, optical, ultraviolet, and x-ray wavelengths obtained with ground-based large telescopes at Kitt Peak, Lick, and McDonald Observatories, the Very Large Array radio telescope, and instruments aboard satellites, such as the European X-Ray Observatory (EXOSAT), International Ultraviolet Explorer (IUE), Voyager, and Infrared Astronomical Satellite (IRAS).
- 2. Scheduling observing runs and simultaneous monitoring of observing targets (33%): In order to provide this service to the astronomical community, we first ascertain from the astronomers the goal of the observing run and how we can best assist. Next, we study the recent behavior of the target stars and give information on their current behavior to the astronomers involved. We then alert our observers to obtain simultaneous optical coverage during the observing run, and finally, while the observing run is progress, we transmit to the astronomers the information our observers provide daily on the target stars. Needless to say, providing this service requires a great deal of time on our part and depends upon our observers' dedicated participation and their timely information. The AAVSO's contributions to observing runs have been of tremendous scientific value and are greatly appreciated by the many astronomers using this service.

This year we have helped schedule 36 observing runs, mostly with IUE and EXOSAT satellites. We have provided simultaneous data for an additional 20 observing runs mostly with IUE, EXOSAT, and Voyager, and the Very Large Array Telescope.

This unique service of the AAVSO is highly recognized, acknowledged, and increasingly sought after each year. Here I have the pleasure of sharing with you excerpts from letters from astronomers testifying to the service that the AAVSO provides.

Dr. Michael Bode, University of Manchester, England, wrote:

"The AAVSO is invaluable to the whole astronomical community. It provides a service unequalled by any other group in the world, and complements the work of the professional astronomer who is limited to sites available and relatively short telescope allocations.... The AAVSO has several times recently provided me with data on the visual behavior of variable stars being observed at other wavelengths by satellite or ground-based facilities.... In one classic case recently we obtained precise simultaneous observations of the dwarf nova SU UMa

with EXOSAT, IUE, and IRAS. Although several large ground-based observatories were prepared to make optical observations they were all 'clouded out.' The only point in this part of the spectrum was obtained by an AAVSO member.... This is only one example of the many occasions that the AAVSO has provided invaluable assistance."

Drs. France Cordova and John Middleditch, Los Alamos National Laboratory, and Keith Mason, Mullard Space Science Laboratory, England, wrote:

"In the past five years the Space Astronomy and Astrophysics Group at Los Alamos, together with the Mullard Space Science Laboratory, University of London, have formed many fruitful collaborations with the AAVSO, resulting in the publication of 23 scientific papers. The AAVSO data were used to augment high energy x-ray and ultraviolet satellite data and were essential to the conclusions drawn in these papers."

Drs. Cordova, Middleditch, and Mason then enumerated a few of the astrophysics research projects that they have collaborated on with the AAVSO and described how the AAVSO helped them in their investigations using HEAO-1, HEAO-2, IUE, and EXOSAT satellites. These are summarized below:

- 1. The AAVSO helped in the first detection of x-ray emission from a few members of each cataclysmic variable subclass using HEAO-1.
- 2. The AAVSO helped in the first detection of soft x-ray pulsation from astrophysical sources, such as dwarf novae.
- 3. The AAVSO helped in obtaining the first multicolor spectra of $\ensuremath{\mathsf{dwarf}}$ novae.
- 4. The AAVSO helped in the discovery that the UV outburst is delayed with respect to the optical, using the IUE satellite.
- 5. The AAVSO monitoring of over 70 cataclysmic variables during HEAO-2 observing runs helped to discover that 70% of these stars give off x-ray emission. This information was vital in testing theories for the high energy emission in these compact systems.
- 6. The AAVSO continues to provide assistance to this group which is continuing to observe with EXOSAT the only satellite presently operating in the soft x-ray regime.
- "...The AAVSO light curves of outbursts used together with x-ray, EUV, and UV data will shed light on the nature and origin of the outbursts."
 - Dr. Jim Pringle, University of Cambridge, England, wrote:
- "Since 1979...we have attempted to observe dwarf novae simultaneously at optical wavelengths using ground-based observatories and ultraviolet wavelengths using the IUE satellite. The success we have had could not have been achieved without the helpful and sustained cooperation of AAVSO."
 - Dr. Alan Kiplinger, NASA Goddard Space Flight Center, wrote:
- "...The AAVSO directed the 100 meter dish [of the radio telescope] in West Germany to SU UMa in outburst [for us to obtain] the only radio detection of a dwarf nova thus far. You also directed my VLA observations whose analysis is in progress.... I would never

have observed YZ Cnc in outburst with the IUE if it had not been for your records and keen perception that the system was in a rare superoutburst while I was on the telescope. For all of the above I am deeply appreciative."

Dr. Paula Szkody, University of Washington, wrote:

"I have found the AAVSO is extremely important in the planning and execution of observations at large telescopes and with satellites at x-ray and UV wavelengths. The IUE satellite typically takes one hour to set up on a new object.... I cannot afford satellite time to move to an object at wrong outburst state.... This is prevented by notification from AAVSO network."

Dr. Geoffrey Bath, University of Oxford, England, wrote:

"...AAVSO has played a major role in helping professional astronomers to push back the frontiers and gain understanding of accretion disk physics, stellar stability, and a whole range of time-varying processes in the stars."

During the SS Cygni campaign this summer, when the onset of outbursts was being closely observed in the ultraviolet with IUE and in the far ultraviolet with Voyager, the immediate notification by AAVSO observers of the start of the oubursts made it possible for astronomers at the University of Arizona and NASA Goddard Space Flight Center to obtain the earliest and one of the best UV spectra of an outburst. This time again there was a lag in the start of ultraviolet outburst. Dr. Ronald Polidan, the principal investigator for this project, extends his appreciation and thanks to AAVSO observers for this major contribution to astronomy.

3. Data Analysis (13%): AAVSO data have been used to analyze the longterm behavior of semiregular and long period variables, dwarf novae, and the sun. Dr. John Percy, University of Toronto, who used AAVSO data to analyze the behavior of rho Cas, wrote:

"I recently became interested in the behavior of rho Cas, one of the most luminous stars known. It appears to undergo both continuous and episodic mass loss which is important in the context of the star's evolution and also the chemical evolution of our galaxy. The star also shows small longterm brightness variations which may be connected with the mechanism which produces the mass loss. To study these brightness variations it would be desirable to have continuous photoelectric photometry over many decades. Such photometry does not exist. Visual observations, however, have been obtained almost continuously for many decades primarily by AAVSO. I have determined that these visual observations are sufficiently numerous and accurate so that they can be grouped into 30-day means whose formal standard errors are only 0.03 magnitudes - almost as accurate as photoelectric I have thereby used these 30-day means to study the photoemtry. behavior of the star from 1963 to the present. The results were presented at the IAU Colloquium 82 on Cepheid variables. The use of visual observations in this way opens up a number of possible studies of longterm behavior of moderate amplitude variable stars."

4. Reference material (15%): We have provided both general and specific information on the AAVSO and variable stars for articles to be published in magazines such as Astronomy, Deep Sky, Sky & Telescope, and Science Digest, in newspapers such as the Boston Globe, to be used as reference material for radio programs such as Star Date and for scientific books. We also provided reference material for basic variable star research. We had 26 such requests last year.

- 5. Science projects (4%): We provided information and assisted students involved with classroom and/or science fair projects on variable stars.
- 6. Setting up special observing programs (5%): We have provided information and assistance to schools and to individuals to set up special observing programs on eclipsing binaries, photoelectric photometry, and the sun.

The AAVSO contributions to variable star research continue to be acknowledged in astronomical literature such as the Astrophysical Journal and the Publications of the Astronomical Society of the Pacific.

Data from AAVSO observers on the unusual behavior of stars and the discovery of novae continue to be published in the IAU Circulars.

In summary, observations submitted by you to the AAVSO play an important and vital role in variable star research.

SUMMARY OF OBSERVATIONS

Our observers' dedication, energy, and enthusiasm continue to amaze us. Regardless of bad weather conditions, light pollution, and busy schedules you keep on observing and reporting record numbers of observations to Headquarters each year.

Figure 4 is a graph of the number of observers and observations for each year since 1974. As this figure indicates, we have reached a record high in the number of observations received. When we initially prepared this graph a year ago, we put the boundary of the graph at 200,000 per year, thinking this would be sufficient for at least a few years - you can see that it is not!

During the fiscal year 1983-1984, we received 214,468 observations from 454 observers. These totals include 99,222 observations from 251 observers in 42 states of the United States and 115,246 observations from 203 observers in 29 countries, including 30,410 observations from the French variable star observers of AFOEV, 15,128 observations from the Hungarian variable star observers, and 13,970 observations from observers in South Africa. These totals also include the 74 adjusted observations of Orion variables, where ten observations are counted as one.

The grand total of observations recorded since the founding of the AAVSO in 1911 is 5,198,449.

Table I lists the number of observers and the total observational contributions from each country for this year. Table II gives the same information for each state in the USA. Table III is an alphabetical list of observers giving each person's observing initials, name, location, annual total of observations, and total of inner sanctum observations (magnitude 13.8 or fainter, and/or "fainter than" 14.0 or fainter).

24 observers reported between 1000 and 2000 observations, 11 between 2000 and 3000, 6 between 3000 and 4000, 3 between 4000 and 5000, and 3 between 5000 and 6000. Edward Halbach sent in 6889 observations, Csaba Mezosi 7095, Michel Verdenet 7774, and Danie Overbeek 11,622.

Michel Verdenet sent in the highest number of inner sanctum

observations with 4214, followed by Ernst Mayer with 1615, and Glen Chaple with 1442.

William Barksdale, Ales Dolzan, Paul Kneipp, Arthur Koster, Howard Landis, and Robert Reisenweber sent in photoelectric photometry observations of AAVSO program stars, and Richard Stanton continued to provide photoelectric estimates for comparison stars in several variable star fields.

Walter Feibelman submitted observations of stars in our observing program obtained with the IUE satellite.

My sincere thanks to each of our untiring, dedicated, and enthusiastic observers for their valuable astronomical contributions. Let me say again, each observer's observations, whether one or hundreds, are very much valued and appreciated.

INTERNATIONAL COOPERATION

Our cooperation continues with variable star observer groups worldwide.

Members of the following variable star associations sent in observations to the AAVSO either individually or as a group for inclusion in our data files for processing and publication: Association Française des Observateurs d'Étoiles Variables (France); Astronomical Society of Southern Africa, Variable Star Section; Astronomischer Jugendclub (Austria); Berliner Arbeitsgemeinschaft für Veranderliche Sterne (West Germany); British Astronomical Association, Variable Star Section (England); British Astronomical Association of New South Wales (Australia); Japan Astronomical Study Association; Nederlandse Vereniging Voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands); Norsk Astronomisk Selskap, Variable Stjernegruppen (Norway); Planetario e Observatorio Astronomico do Colegio Estadual do Parana (Brazil); Pleione Változócsillag-észlelő Hálózat (Hungary); Royal Astronomical Society of Canada; Scandinavian Astronomisk Selskap; Uniao Brasileira de Astronomia, Variable Star Commission (Brazil); Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium).

Dr. Frank Bateson generously continues to send observations from members of the Variable Star Section of the Royal Astronomical Society of New Zealand for us to use in preparing the annual predictions of maxima and minima of long period variables published in the AAYSQ Bulletin. Dr. Bateson, as well Mr. Douglas Saw, British Astronomical Association, Variable Star Section, and Mr. Aare Kellomaki, Scandinavian Variable Star Observers, disseminate our predicted dates of maxima and minima to their observers.

We continue to exchange literature with observatories, universities, and other astronomical groups around the world.

This past summer while in London, my husband Mike and I had the opportunity to meet John Isles, the former Director and still very active member of the Variable Star Section of the British Astronomical Association. We had very fruitful discussions on how to strengthen collaboration between the two associations and on the possibility of the AAVSO becoming the variable star data center for the world.

MEETINGS ATTENDED AND TALKS GIVEN ON THE AAVSO

In February I was able to attend the 8th North American Workshop

on Cataclysmic Variables held at Louisiana State University, Baton Rouge, Louisiana, through a consultation grant from Dr. Paula Szkody, University of Washington. The 3-day Workshop covered topics on the origin and evolution of cataclysmic variables, dwarf nova outbursts, accretion disks and boundary layers of the white dwarf component, classical novae, magnetic cataclysmic variables, and the recent results from EXOSAT. At this meeting Dr. Szkody, one of her students, and I presented a poster paper on optical and spectroscopic results of the recent small outburst of the old nova, GK Persei. Throughout the meeting the contributions of the AAVSO to cataclysmic variable research were brought up through many of the acknowledgements from speakers who used our data. As a gesture of appreciation, the next Workshop is scheduled for Seattle, Washington, following the AAVSO Spring Meeting to be held there in June, 1985. This will give our members the opportunity to stay and participate in the Workshop, as well as giving astronomers the chance to come to Seattle earlier to attend our meeting.

In June, I attended the 164th Meeting of the American Astronomical Society held in Baltimore, Maryland. At this meeting I presented a poster paper on the AAVSO and its services. This gave me an opportunity to meet astronomers who were not aware of our various activities. Since the meeting several astronomers have applied for AAVSO membership. One of the highlights of this meeting was a visit to the Space Telescope Science Institute in Baltimore and discussion on the Space Telescope which will be launched in 1986. The AAVSO has been asked to participate actively in the Space Telescope projects as we have done with several other satellites, particularly HEAO-2.

I always enjoy giving talks on the AAVSO to inform astronomy enthusiasts about our activities and to attract new members to our Association. This year I gave talks on the AAVSO and variable stars at:

- 1. St. Paul's School, Concord, New Hampshire.
- 2. The University of Toronto, Toronto, Canada.
- 3. A meeting of the Royal Astronomical Society, Toronto, Canada.
- 4. The Milford High School, Milford, Connecticut.

NEW MEMBERSHIP AND INFORMATION ON THE AAVSO

We have elected 112 new members this year. 108 joined as annual and 4 as sustaining members.

We received 405 requests for information about the AAVSO. Requests came from individuals, schools, colleges, universities, writers, and journalists. My sincere thanks to our members who have given talks or have written about the AAVSO. This publicity has helped to draw new members to the Association.

PUBLICATIONS

The following were published during the fiscal year:

The Journal of the AAVSQ, Volume 12, No. 2; Volume 13, No. 1, edited by Charles A. Whitney, prepared by Elizabeth O. Waagen and Janet C. MacLennan.

AAYSO Bulletin 47 - Predicted Dates of Maxima and Minima of Long Period Variables for 1984, prepared by Janet A. Mattei.

AAYSQ Bulletin 47 Supplement - Schematic representation of the data in Bulletin 47, compiled by Peter O. Taylor and Josefa M. Manella.

AAVSQ Circular, Numbers 156 to 168, edited and published by John E. Bortle and Charles E Scovil.

AAYSQ Alert Notices, Numbers 59 to 68, prepared by Janet A. Mattei.

Ephemerides of Eclipsing Binary and RR Lyrae Stars for 1984, prepared by Peter O. Taylor, Josefa M. Manella, and Marvin E. Baldwin.

AAYSQ Photoelectric Photometry Newsletter, Yolume 4, Numbers 2, 3, 4, and Yolume 5, Number 1, edited by John R. Percy.

AAYSO Solar Bulletin, Volume 39, Numbers 10 - 12 and Volume 40, Numbers 1 - 8, edited by Peter O. Taylor with assistance from Bruce I. Wingate.

The predicted maxima dates of bright long period variables for 1984, an ephemeris of a few easy-to-observe stars, and a short article on V Bootis were published by Janet A. Mattei in the Qbservers's Handbook of the Royal Astronomical Society of Canada.

Monthly predictions of maxima and minima dates of bright long period variables were published by Janet A. Mattei in Sky & Telescope magazine.

The contributions of the following members toward AAVSO publications is acknowledged with thanks:

Marvin E. Baldwin, John E. Bortle, Janet C. MacLennan, Josefa M. Manella, John R. Percy, Charles E. Scovil, Peter O. Taylor, Elizabeth O. Waagen, Charles A. Whitney, and Bruce I. Wingate.

PERSONNEL AT HEADQUARTERS

As your Director, I am very fortunate to have the high quality staff at Headquarters. We work as a team and do the best we can to get the work done efficiently. The staff at Headquarters consists of five full-time (including myself) and three part-time employees. My sincere thanks to my technical assistant Elizabeth O. Waagen, our administrative assistant and correspondence secretary Janet C. MacLennan, our general secretary Dorothy Haviland, our computer programmer (hired through the Margaret Mayall Assistanship) Charles M. Jones, our data entry operators Barbara Silva and Bethune Kelly, our general assistant Margarita Tapia Vargas, and our volunteer assistant Katherine Hazen.

ACK NOWLEDGEMENTS

Our special thanks to the Harvard-Smithsonian Center For Astrophysics (CFA) for the financial support in the form of a computer time grant. We thank Professor Owen Gingerich for making this grant possible, and Barbara Welther for her suggestions and help with computer time funding. We also extend our thanks to the Director of the CFA, Professor Irwin I. Shapiro, for his support of AAVSO's use of

the CFA's computer, and to Dr. James Conklin, Director of CFA Computation Facility, and his staff for their assistance with our computer needs.

We thank the National Oceanic and Atmospheric Administration (NOAA) for their financial support of the activities of our Solar Division.

Our special thanks to the International Astronomical Union (IAU) for partially funding the publication of our longterm data on cataclysmic variables. This is the first time that the AAVSO has received a grant from the IAU, the most prestigious group representing the worldwide professional astronomical community. In the letter announcing this grant, Dr. Richard West, the General Secretary of the IAU, wrote:

"The Executive Committee [of the IAU] is convinced that this is a most timely and useful project and hopes the IAU contribution towards the expenses will encourage others to support your undertaking."

We thank the Stamford Museum and Nature Center for making available to Charles E. Scovil the facilities of Stamford Observatory for the preparation of new AAVSO charts and the AAVSO Circular, and for allowing Charles Scovil and John Griese the use of the 22" telescope for variable star observations and special observing programs.

We thank the University of Toronto for the financial support of the preparation and mailing of the AAYSQ Photoelectric Photometry Newsletter by John Percy.

We fondly remember our members Cy and Emily Fernald and acknowledge the continued financial support through the trust fund bequeathed to the AAVSO.

We most gratefully acknowledge the continued financial support of Dr. Clinton B. Ford in computerizing the archival data, and in preparing the data for our new Monograph series.

We sincerely thank our members Keith Danskin, Jim Ellerbe, Dorrit Hoffleit, Carolyn Hurless, and Thomas Williams for their contributions toward the publication of our data on cataclysmic variables; Margaret and Newton Mayall for their contribution to the M. W. Mayall Assistanship, and two Friends of the Association for their contributions.

Our special thanks to Mrs. Katherine Hazen for volunteering her time to help our Headquarters operation.

Our sincere thanks to our member Keith Danskin for his help (whenever he has time between his flights) with our Headquarters activities.

Our sincere thanks to members who have taken Sustaining membership, thus increasing their financial support of the Association, and to members who have made financial contributions to the Margaret W. Mayall Assistantship, the General Fund, and/or the Endowment Fund.

My personal thanks to my husband for his support and good ideas.

My special thanks to our Committee Chairmen, Officers, and

Council members for their contributions of time and wisdom in the operation of the Association.

I would like to conclude my Annual Report with a collage of statements from the letters of astronomers around the world who have used AAVSO data:

"AAVSO observers are amateur astronomers but only in the sense that they are not paid for their astronomical work. Most of them are highly skilled professionals in other fields."

"Members of the AAVSO make discoveries and provide top quality data that cannot be obtained by professional astronomers."

"The AAVSO data base is one of the most important being kept in astronomy today."

"I believe I speak for many professionals around the world who are indebted to the AAVSO for its dedication to variable star observing."

Janet Akyüz Mattei Director

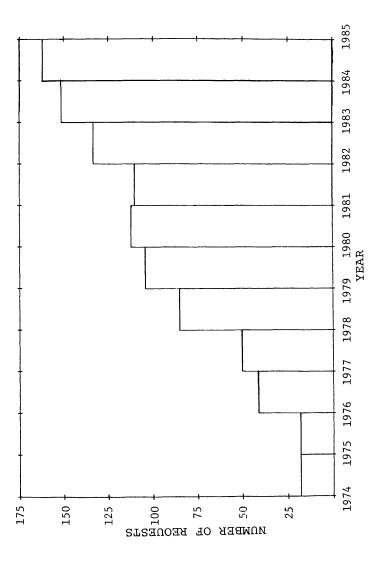


Figure 1. Number of special requests for AAVSO data filled each year since 1974.

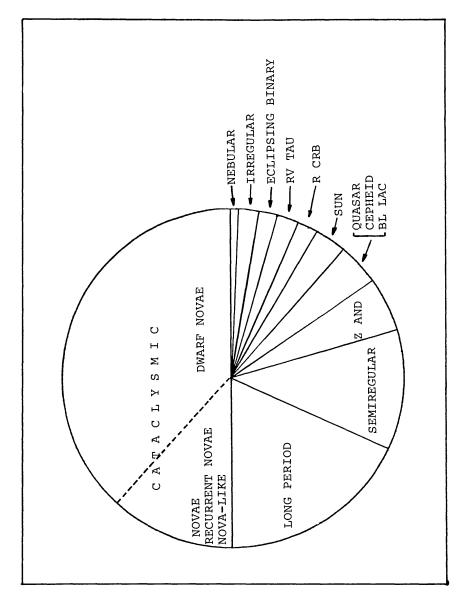


Figure 2. Types of variable stars for which data were requested during the fiscal year 1983-84.

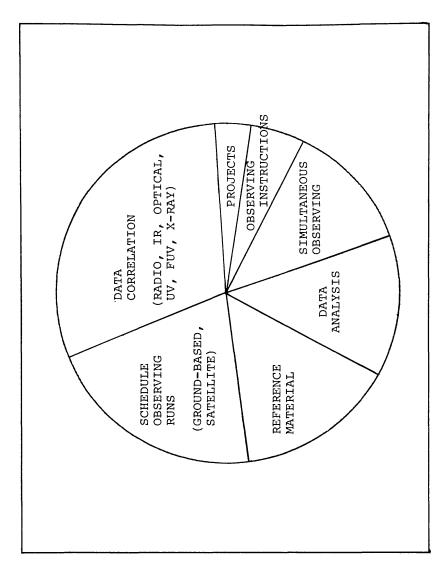


Figure 3. Areas in which AAVSO data and services were used during the fiscal year 1983-84.

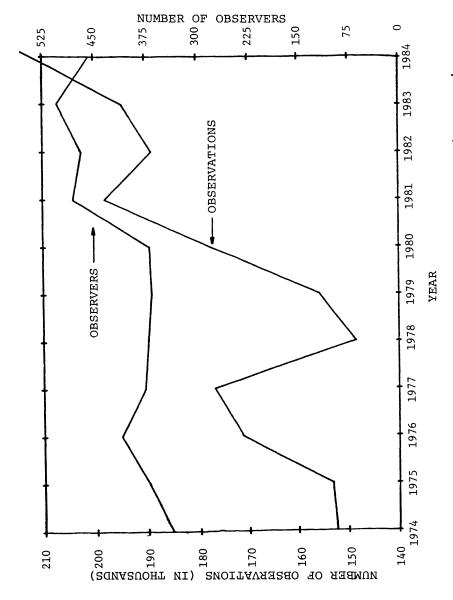


Figure 4. Number of observers and observations for each year since 1974.

Country	Number of Observers	Total of Observations		Number of Observers	Total of Observations
Argentina	8	5878	Italy	14	3534
Australia	4	1795	Japan	6	2582
Austria	3	94	Malta	1	53
Belgium	14	3110	Netherlands	17	6885
Brazil	2	49	New Zealand	1	152
Canada	19	9270	Norway	13	3451
Czechoslov	akia 2	347	Poland	1	721
Denmark	8	1686	Romania	1	1040
England	7	3602	South Afric	a 10	13970
Fed.Rep.Ge	ermany 4	3590	Spain	2	656
France	⁻ 29	30410	Switzerland	. 1	527
German Dem	a.Rep. 2	4532	Turkey	1	26
Greece	⁻ 3	1409	U. S. A.	251	99222
Hungary	21	15128	Yugoslavia	5	271
India	1	8	Zimbabwe	3	470
			TOTAL	454	214468

TABLE II
U. S. A. Observer Totals by State

			Total of				Total of
State	Observ	ers	Observations	State (Obser	vers	Observations
Alabama	(AL)	2	1609	Nebraska	(NE)	1	29
Arizona	(AZ)	8	1888	Nevada	(NV)	2	14
Arkansas	(AR)	1	819	New Hampshire	(NH)	3	163
California	(CA)	27	5269	New Jersey	(NJ)	6	1381
Colorado	(CO)	5	11965	New Mexico	(NM)	1	11
Connecticut	(CT)	10	4211	New York	(NY)	22	16083
Florida	(FL)	10	2693	North Carolina	a(NC)	1	800
Georgia	(GA)	2	21	North Dakota	(ND)	2	47
Hawaii	(HI)	2	5550	Ohio	(OH)	14	5413
Illinois	(IL)	17	6356	Oklahoma	(OK)	3	50
Indiana	(IN)	3	1818	Oregon	(OR)	1	922
Iowa	(IA)	2	6	Pennsylvania	(PA)	14	3737
Kansas	(KS)	3	312	Rhode Island	(RI)	2	18
Louisiana	(LA)	6	3100	South Carolina	a (SC)	3	766
Maine	(ME)	5	851	Tennessee	(TN)	2	60
Maryland	(MD)	7	831	Texas	(TX)	15	3485
Massachusett	s(MA)	6	5134	Vermont	(VT)	3	145
Michigan	(MI)	7	1597	Virginia	(VA)	2	2948
Minnesota	(MN)	6	2387	Washington	(WA)	2	289
Mississippi	(MS)	2	30	West Virginia	(WV)	1	754
Missouri	(MO)	7	1160	Wisconsin	(MI)	_13	_4500
			r	OTAL		251	99222

TABLE III

AAP A. P. ABBOTT, CANADA 611- 5	BUL T. M. BUTLER, MO 55- 13
AD R. M. ADAMS, MA 754-190	CPA A.J.CAMPONOVO, ARGENTINA 5654
ASK S. AKITA, JAPAN 298	CJA J.A.S. CAMPOS, S. AFRICA 129
	CEA*B. CANDELA, FRANCE 131
	CCD C. CARDONA, NY 2
ALL L. R. ALLRED, MN 40	CPK P. CARPREAU, BELGIUM 70
ARO R. J. R. AMORIM, BRAZIL 15	CIT M. CAVAGNA, ITALY 95
AOD O. ANDERSEN, NORWAY 69	CJZ J. CERAR, YUGOSLAVIA 50
AJR J. R. ANDRESS, OH 59	CDX D. A. CHALOUX, MD 57
AWR R. S. ANDREWS, AZ 19	CGF G. F. CHAPLE JR., MA 3535-1442
	CAO A. CHRISTIAN, ITALY 21
ACP C. P. ARMSTRONG, CT 10	TCE*E.CIFUENTES-TORRES, FRANCE 141
	CLK W. E. CLARK, MO 151- 1
AKT T. W. ATKIN, TX 509	CLB R. CLYDE, OH 2 CLO A. D. COLE, FL 7 COLET COLIN FRANCE 18
ATW P. ATWOOD, CT 116	CLO A. D. COLE, FL 7
AUB*J. AUBAUD, FRANCE 518	COI*J. COLIN, FRANCE 18
ADE D. E. AUCOIN JR., ME 17	CMJ M. J. COLLINS, ENGLAND 55
BAC W. B. BACHELOR, MD 2	COL P. L. COLLINS, CA 149
BVE&E.BALLEGOY, NETHERLANDS 66	CMG&G. COMELLO, NETHERLANDS 540- 80
BWK W. S. BARKSDALE JR., FL 256	COO L. M. COOK, CA 1103- 10
	CK S. P. COOK, AR 819- 16
BGT G. A. BARROS, ARGENTINA 47	CCL C. S. COOPER, LA 7
BB R. S. BATES, MA 151	COE E. COSTA LINSDAS, BRAZIL 34
BAU J. BAUER, W. GERMANY 26	CCH C. COTEFF, FL 13
BAE A. BEAMAN, IL 4	CMK M. G. COUCKE, MO 12
	CLX L. B. COX, CANADA 9- 2
	CR T. A. CRAGG, AUSTRALIA 1617- 408
•	·
BJS J. R. BEDIENT, WI 13	DAN"J. DANKO, HUNGARY 6
BSE R. E. BELL, CANADA 5	DAK K. H. DANSKIN, NH 77- 35
	DTA T. A. DARVANN, NORWAY 83- 2
	DRB R. DAVIDSON, NV 2
	DES S. DECEUNINCK, BELGIUM 154
BKN A. J. BIRKNER, IL 126	DEA R. DEMARTINO, CT 5
BGB B. BLAGG, TX 33 BLD D. BLANE, S. AFRICA 115	DPC P. A. D'ERRICO, CO 10
BLD D. BLANE, S. AFRICA 115	
BOH D. BOHME, E. GERMANY 695	DRD R. D. DIETZ, CO 8
BFK&F. BOINCK, NETHERLANDS 197	DIL W. G. DILLON, TX 57
BMW M. W. BORGMAN, PA 109	DRX R. DIXON, NY 236- 9
BRJ JOHN E. BORTLE, NY 3477-1296	DZA A. DOLZAN, YUGOSLAVIA 4
BJN JOHN E. BORTLE, III, NY 17	DPL P. L. DOMBROWSKI, CT 576- 20
BJT JOSEPH E. BORTLE, NY 96	GDB~G. DOMENY, HUNGARY 437
BMU&R. J. BOUMA, NETHERLANDS 270	DMJ M. J. DREILING, OK 15
BRG B. J. BOURGEOIS, TX 13	DRY R. B. DUCOTY, CA 317- 3
•	DMO*M. DUMONT, FRANCE 167
BLX L. W. BRAGG, GA 2	DEU E. DUVILLIERS, BELGIUM 33
BDT D. W. BRANCHETT, FL 12	
	EL J. E. ELLERBE, SPAIN 118
	EJL J. L. EVERAERT, BELGIUM 284
BHN&H. BRIL, NETHERLANDS 7	FSV S. A. FALVO, NY 9
BSM S. M. BRINCAT, MALTA 53	FCA C. A. FAUSEL, MI 197- 1
BBM B. M. BROWN, NY 72	FWA W. A. FEIBELMAN, MD 2
BOA*A. BRUNO, FRANCE 129	FJH&H. FEIJTH, NETHERLANDS 2629- 557
	FEN~A. FENYVESI, HUNGARY 8
BJY J. D. BRYDGES, IL 111	FET T. I. FETTERMAN, NJ 8- 6
BS S. A. BUCARO, IL 61	FRD R. G. FIADONE, ARGENTINA 26
BGO R. D. BUNGE, NY 142	FRF~R. FIDRICH, HUNGARY 334
BEP&E. P. BUS, NETHERLANDS 42	FDF D. F. FIGER, OH 60
BJU J. C. BUSS, CA 856	FEM E. M. FLYNN, MO 11
BUS R. A. BUSS, ND 32	FDA~A. FODOR, HUNGARY 81
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TABLE III (cont'd)

FD C. B. FORD, CT FTO T. FORS, DENMARK FPN B. FRASER, S. AFRICA FRI L. A. FRIGON, CA FRI L. A. FRIGON, MO 54 FR L. A. FRIGON, MO 54 FR C. J. HURLESS, OR 1184 FRI L. A. FRIGON, MO 54 FR L. A. FRIGON, MO 54 FR C. J. HURLESS, OR 1184 FRI L. A. FRIGON, MO 54 FRI L. A. FRIGON, MO 54 FR C. J. HURLESS, OR 1184 FRI L. A. FRIGON, MO 54 FRI L. A. FRICON, MO 51 FRI C. J. FRI L. A. FRI L		B 0000 00					100
FBN B. FRASER, S. AFRICA 44- 1 HUR G. M. HURST, ENCLAND 368- 344 FRI L. A. FRIGON, MO 54 FR L. A. FRIGON, MO 54 FRAA A. PROSINA, ITALY 23 FMG G. C. FUGMAN, WI 90 GMG C. C. CAGLE, IA 3 GJW J. W. GARASICH, PA 11 GAZ*J. GARSZTRA, FRANCE 63- 15 GAZ*J. GARSZTRA, FRANCE 63- 15 GAZ*J. GARSZTRA, FRANCE 64- 15 GAZ*J. GARSZTRA, FRANCE 65- 15 GAZ*J. GARSZTRA, FRANCE 64- 15 GAZ*J. GARSZTRA, FRANCE 65- 15 GAZ*J. GARSZTRA, FRANCE 75- 16 GAZ*J. GARSZTRA, FRANCE 75- 17 GAZ*J.		•		65			
FRI L. A. FRIGON, CA PR L. A. FRIGON, MO FR L. A. FRIGON, MO FAG C. C. FUGMAN, WI FING G. C. FUGMAN, WI FING G. C. C. FUGMAN, WI FING G. C. C. GALE, IA GEC E. C. GALE, IA GEC E. C. GALE, IA GIW J. W. GARASICH, PA 11 GJS J. L. GARRISON, PA 13 GJS J. L. GARRISON, PA 13 GJS J. L. GARRISON, PA 13 GJC J. A. GERACE, NY GEO G. G. JOHNSON, MD GASKILL, TR GEO G. G. E. JOHNSON, MD GOL J. A. GERACE, NV GOL G. G. E. JOHNSON, MD GOL J. A. GERACE, NV GOL G. G. E. JOHNSON, MD GOL J. A. GERACE, NV GOL G. G. E. JOHNSON, MD GOL J. A. GERACE, NV GOL G. E. JOHNSON, MD GOL J. JOHNSON, MR GOL J. JO				_			
PR L. À. FRIGON, MO 54 FAA A. PROSINA, ITALY 23 FMG G. C. FUGMAN, WI 90 FMG G. C. FUGMAN, WI 97 FMG		•		1			
FAA A. FROSINA, ITALY PMG GC. C. FUGMAN, WI GEC E. C. GALE, IA GEC E. C. GALE, IA GIS J. L. GARRISON, PA 13 GAZ*J. GARSZTKA, FRANCE GSDW J. W. GARASICH, PA 13 GAZ*J. GARSZTKA, FRANCE GSDW J. W. GARASICH, TX GEL GAZ, GEENEN, NETHERLANDS GGL J. A. GERACE, NV GL GL J. W. H. GLENN, NY GL G. W. G. ILBA, MD GDA A. C. GONDOLA, NM GL G. F. G. GRAHAM, PA GG G. W. GILBA, MD GRL H. P. GRANSLO, NORWAY GRIF H. GRANNSLO, NORWAY					IML M.	IDEM, NY	
FMG G. C. FUGMAN, WI 90 JM R. A. JAMES, WI 477 GECE E. C. GALE, IA 3 JJT J. T. JEFFREY, OR 922 350 GJW J. W. GARRASICH, PA 11 JKK K. K. JENSEN, DENMARK 4 JKJ JKJ J. C. GARRISCHON, PA 13 JOG G. E. JOHNSON, MD 501 10 GAZ*J. GARSETKA, FRANCE 63 15 JKL K. L. JONES, AUSTRALIA 101 GMK M. GASKILL, TX 57 JUD D. L. JUSTISON, MN 501 2 GGR. R. GESCHWIND, OH 75- 4 KET E. RATO, AUSTRALIA 101 GCHF, R. CLENN, NY 141 KLD L. KERLEY JR., IL 96 GGR. R. GESCHWIND, OH 75- 4 KET E. RATO, AUSTRALIA 101 GCHF, R. CLENN, NY 143 KSZ*S. KESZTHELY, HUNGARY 945 GGR. G. GARHAM, PA 6 GCF, C. G. GARHAM, PA 6 GFF, C. GEMANN, 11 10 GRA, A. C. GONDOLA, NM 11 GOP P. N. GOODWIN, LA 2588 517 KPL, P. W. KNELPP, LA 20 GFG, F. G. GRAHAM, PA 6 GRA, A. A. GRAHAM, IL 101 GRA, A. GRAHAM, IL 101 GRA, B. H. GRANSLO, NORWAY 2395-13 KJW J. W. KNIGHT, ME 297 GGR, H. P. GRANCE, OH GRAN, F. K. K. JENSEN, DENMARK 97- 4 GGRA, A. A. GRAHAM, IL 101 GRA, WAS 11 GRAN, GRAN, A. GRAHAM, IL 101 GRA, GRAN, GRAN, A. GRAHAM, IL 101 GRA, GRAN, GRAN, GRAN, A. GRAHAM, IL 101 GRA, GRAN, GRAN, GRAN, A. GRAHAM, IL 101 GRA, GRAN, GRAN							
GEC E. C. GALE IA 3 JUT J. T. JEFFREY OR 922-350 GJW J. W. GARASTCH, PA 11 JKK K. K. JENSEN, DENMARK 4 AGJS J. L. GARRISON, PA 13 JKK K. K. JENSEN, DENMARK 4 501-10 GAZ*J. GARSZTKA, FRANCE 63-15 JKL K. L. JUNES, AUSTRALIA 101 CGG. E. JUNISON, MD 501-10 GAZ*J. GARSZTKA, FRANCE 63-15 JKL K. L. JUNES, AUSTRALIA 101 CGG. G. GARSZTKA, FRANCE 63-15 JKL K. L. JUNES, AUSTRALIA 101 CGG. G. GARSZTKA, FRANCE 63-15 JKL K. L. JUNES, AUSTRALIA 101 CGG. G. GARSZTKA, FRANCE 63-15 JKL K. L. JUNES, AUSTRALIA 101 CGG. G. GARSZTKA, FRANCE 75 JUNIJ JURDAN, TN 32 GAZ							
GJUS J. L. GARRISON, PA GJS J. L. GARRISON, PA GJS J. L. GARRISON, PA GMK M. GASKILL, TX GMK M. GASKILL, TX GENEN, NETHERLANDS GJC J. A. GERACE, NV GJC J. A. GERACE, NV GJC J. A. GERACE, NV GCH R. S. GILCHRIST, CT GCH S. GLENN, NY GLAY GLIG G. W. GLIBA, MD GRAY GROW, GCH G. GARHAM, DA GOP P. N. GOODMIN, LA GON M. GRIESE III, CT GON M. GRIESE III, CT GON M. GRIESE III, CT GON M. GRIESE III, C							
GJS J. L. GARRISON, PA 13			3				
GAZ*J. GARSZTKA, FRANCE 63- 15 JKL K. L. JONES, AUSTRALIA 101 GMK M. GASKILL, TX 57 JJN J. JORDAN, TN 51- 2 GEJ&J. GEENEN, NETHERLANDS 69 JJN J. JORDAN, TN 32 GJC J. A. GERACE, NV 12 KJA J. A. KALATA, IL 7 GCH R. S. GILCHRIST, CT 6 KLY G. W. KELLEY JR., VA 87- 14 GLF F. R. GLENN, NY 141 KLD L. KERLEY JR., IL 96 GLG G. W. GLIBA, MD 8 KRE R. P. KING, MN 305- 91 GAV A. GLOMSVOLL, NORWAY 70 KME M. E. KITTKELL, KS 56 GFB W. GOFF, CA 425- 284 KAE A. E. KLEIN, ARGENTINA 30 GOP A. C. GONDOLA, NM 11 KON O. KLINTING, DENMARK 97- 4 GOF F. G. GRAHAM, PA 6 KJL J. D. KNELL, TX 17 GKL B. H. GRANSLO, NORWAY 2395- 13 KJJ J. D. KNELL, TX 17 GRL B. H. GRANSLO, NORWAY 2395- 13 KJJ J. W. KNIGHT, ME 28 GFG F. G. GRAHAM, TL 101 KGT G. KNIGHT, ME 29 GFK F. W. GROVE M.D., MI 360 KKF F. KOEHLER, AND <td></td> <td></td> <td>11</td> <td></td> <td></td> <td></td> <td></td>			11				
GMK M. GASKILL, TX			13				
GENAJ. GERNEN, NETHERLANDS 69 GJC J. A. GERRACE, NV 12 GJC J. A. GERRACE, NV 12 GSR R. GESCHININ, OH 75- GCH R. S. GILCHRIST, CT 6 GCH F. R. GLENN, NY 141 GLW W. H. GLENN, NY 141 GLW W. H. GLENN, NY 141 GLW W. H. GLENN, NY 143 GLG G. W. GLIBA, MD 8 GAV A. GLOMSVOLL, NORWAY 70 GFB W. GOFF, CA 425- GFB W. GOFF, CA 425- GFB W. GOFF, CA 425- GFG F. G. GRAHAM, IL 101 GCH R. S. GRAHAM, IL 101 GCH R.			63-	15	JKL K.	L. JONES, AUSTRALIA	
GJC J. A. GERACE NV 12			57		JJN J.	JORDAN, TN	
GSR R. GESCHWIND, OH 75- 4 KEI E. KATO, AUSTRAIJA 41 CCH R. S. GILCHRIST, CT 6 KLY G. W. KELLEY JR., IL 96 CLF F. R. GLENN, NY 141 KLY G. W. KELLEY JR., IL 96 CLW W. H. GLENN, NY 143 KSZ*S. KESZTHELY, RUNGARY 945 CLG G. W. GLIBA, MD 8 KRE R. P. KING, MN 305- 91 CAVA A. GLOMSVOLL, NORWAY 70 KME M. E. KITTRELL, KS 5 CAVA A. GLOMSVOLL, NORWAY 70 KME M. E. KITTRELL, KS 5 CAVA A. G. GONDOLA, NM 11 KOOP P. N. GOODWIN, LA 2588- 517 KPL P. W. KNEIPP, LA 20 CAVA A. G. GRAHAM, IL 101 KGT G. GRAHAM, IL 101 KGT G. KNIGHT, ME 297 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 297 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 297 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 28 CAVA A. G. GROVE M. D., MI 360 KGC A. KOCSIS, HUNGARY 1792 CAVA A. G.	GEJ&J.	GEENEN, NETHERLANDS	69				
GCH R. S. GILCERIST, CT GLF F. R. GLENN, NY GLG G. W. GLIBA, MD GLOW S. GOFF, CA GDA A. C. GONDOLA, NM GOP P. N. GOOWIN, LA 2588-517 KPL P. W. KRELLEY, HUNGARY GCF, G. GRAHAM, PA GF, F. G. GRAHAM, PA GF, F. G. GRAHAM, IL 101 KGT G. KILTING, DENMARK GOP, N. GOOWIN, LA 2588-517 KPL P. W. KNEIPP, LA 20 GFG F. G. GRAHAM, PA GF, F. G. GRAHAM, IL 101 KGT G. KNIGHT, ME 297 GRL B. H. GRANSLO, NORWAY 2395- GRI J. W. GRIESE III, CT 759- GFF W. GROVE M.D., MI 360 GRZ H.P. GRZELCZYK, E. GERMANY3837- GCC C. GUALDONI, ITALY 142 GUG*V. GUGUMUS, FRANCE 19 GUN*J. GUNTHER, FRANCE 2778- GMF M. A. GUTRIDGE, OK 15 KMF E. A. HALBACH, CO 6889- 397 KMA M. A. GOMROOUS, CANADA 12 KMS S. KOSSIS, HUNGARY 1749- 12 KNS A. KOKKINEDIS, GREECE 304 KMLW. KOLER, CANADA 58 KMF M. A. GUTRIDGE, OK 15 KMS A. KOKKINEDIS, GREECE 304 KMS S. S. KOLMAN, IL 1526- 230 HK E. A. HALBACH, CO 6889- 397 KMA M. A. KOMOROUS, CANADA 58 KMF M. A. GUTRIDGE, OK 15 KMS A. KOKKINEDIS, GREECE 304 KMS S. KOSSIS, HUNGARY 439 KMS S. KOSSIR, HUNGARY 430 KNS S. KOSSIR, HUNGARY 431 KNS S. HOSSTE, BELGIUM 431 LI KLD L. KERLLEY JR., IL 405 KRE R. P. KING, MN 305- 91 KRE R. P. KING, MN 405 KRE R. P. KINT, IL 406 KKF K. KOCSIS, HUNGARY 409 KMC K. KELEIN, KN 400 KOC C. C.							
GLF F. R. GLENN, NY 141 KLD L. KERLEY JR., IL 96 GLW W. H. GLENN, NY 143 KSZ*S. KESZTBELY, HUNGARY 945 GLG G. W. GLIBA, MD 8 KRB R. P. KING, MN 305-91 GAV A. GLOMSVOLL, NORWAY 70 KME M. E. KITTRELL, KS 5 GFB W. GOFF, CA 425-284 KAE A. E. KLEIN, ARGENTINA 30 GDA A. C. GONDOLA, NM 11 KON O. KLINTING, DENMARK 97-4 GOP P. N. GOODWIN, LA 2588-517 KPL P. W. KNEIPP, LA 20 GFG F. G. GRAHAM, PA 6 KJL D. KNELL, TX 17 GKA K. A. GRAHAM, IL 101 KGT G. KNIGHT, ME 297 GRL B. H. GRANSLO, NORWAY 2395-13 KJW J. W. KNIGHT, ME 28 GJH J. H. GRANT, SC 28 KSP S. P. KNIGHT, ME 28 GJH J. W. GRIESE III, CT 759-456 KS J. H. KNOWLES, MA 22 GML M. GRUNNANGER, AUSTRIA 60 KOCA. KOCSIS, HUNGARY 1792 GML M. GRUNNET, DENMARK 500 KKF K. F. KOEHLER, AZ 776 GCC C. GUGLUNG, FRANCE 19 KMLM. KOHL, SWITZERLAND 527 GCO C. GUGLUNG, FRANCE 19 KMLM. KOHL, SWITZERLAND 527 GCO C. GUGLUNG, FRANCE 19 KMLM. KOHL, SWITZERLAND 527 GUG**U. GUGUMUS, FRANCE 19 KMLM. KOHL, SWITZERLAND 527 GWA A. BALBBACH, CO 6889-397 KMA M. A. KOMKONOUS, CANADA 58 KKF K. F. KOESHER, WI 11 KHJ H. J. KOLLER, CANADA 58 KRS R. S. KOLMAN, IL 1526-230 KKF K. S. HANSON II, AZ 254 KNJ T. KOVACS, HUNGARY 745 HAV R. P. HARVAN, MD 253 HEF M. A. HEIFFER, CO 2619-883 KCO X. KOSA-KISS, ROMANIA 1040 HEF M. A. HEIFFER, CO 2619-883 KCO X. KUTTLAK, YUGOSLAVIA 181 HEF M. A. HEIFFER, CO 2619-883 KCO X. KUTTLAK, YUGOSLAVIA 181 HEF M. A. HEIFFER, CO 2619-883 KCO X. KUTTLAK, YUGOSLAVIA 181 HEF M. A. HEIFFER, CO 2619-883 KCO X. KUTTLAK, YUGOSLAVIA 181 HEF M. A. HEIFFER, CO 2619-883 KCO X. KUTTLAK, YUGOSLAVIA 181 HEF M. E. HILL, AZ 179 HEF M. L. HEETT, VA 2861 LAR R. LAMBERT, TX 10 HEF M. R. HELBAK, NORWAY 24 LGT*G. LACASSIN, FRANCE 2090-1368 HEN C. HENSHAW, JAPAN 1037-110 LTN T. LARSEN, NORWAY 87 HEF L. HIELT, VA 2861 LAR R. LAMBERT, TX 10 HERS, S. AFRICA 1065-427 LND H. J. LANDIS, LA 58 HEV-Y. HEVESI, HUNGARY 179 HEF M. LAMBERT, TX 10 HERS, S. AFRICA 1065-427 LND H. J. LANDIS, LA 58 HEY-Y. HEVESI, HUNGARY 1	GSR R.	GESCHWIND, OH	75-	4			
GLW W. H. GLENN, NY 143	GCH R.	S. GILCHRIST, CT			KLY G.	W. KELLEY JR., VA	
GLG G. W. GLIBA, MD 8 GAV A. GLOMSVOLL, NORWAY 70 GFB W. GOFF, CA 425- 284 KAE A. E. KLEIN, ARGENTINA 30 GDA A. C. GONDOLA, NM 11 GOP P. N. GOODWIN, LA 2588- 517 KPL P. W. KNEIPP, LA 20 GFG F. G. GRAHAM, PA 6 GKA K. A. GRAHAM, IL 101 GKA K. A. GRAHAM, IL 101 GKA K. A. GRANT, SC 28 GJH J. H. GRANT, SC 28 GJH J. W. GRIESE III, CT 759- 456 KS J. H. KNOWLES, MA 22 GFK F. W. GROVE M.D., MI 360 GCT C. GRUNNET, DENMARK 500 GCT C. GRUNNET, DENMARK 500 GCT C. GRUNNET, DENMARK 500 GCS C. GUALDONI, ITALY 142 GUG*V. GUGUMUS, FRANCE 19 GUM*J. GUNTBER, FRANCE 19 GUM*J. GUNTBER, FRANCE 19 GUM*J. GUNTBER, FRANCE 19 GUM*J. GUNTBER, FRANCE 19 GWF M. A. GUTRIDGE, OK 15 KRE R. P. KING, MN 5 KME M. E. KITTRELL, KS 5 KME M. E. KILTING, DEMARK 97-4 KKLEIN, ARGENTINA 30 KGT G. KNIGHT, ME 297 KKS J. H. KNOWLES, MA 22 KKF K. F. KOEHLER, AZ 776 KKG G. A. KOCSIS, HUNGARY 1792 KKF K. F. KOEHLER, AZ 776 KKLEM, KOHL, SWITZERLAND 527 KMLEM. KOLE, NETHERLANDS 127 KMLEM. KOLE, KERCH, MLEMERT, KLEELEN, ML	GLF F.	R. GLENN, NY	141				
GAV A. GLOMSVOLL, NORWAY 70 GFB W. GOFF, CA 425	GLW W.	H. GLENN, NY	143				
GFB W. GOFF, CA GDA A. C. GONDOLA, NM GDA A. C. GONDOLA, NM GOF P. N. GOODWIN, LA 2588-517 KPL P. W. KNEIPP, LA 20 GFG F. G. GRAHAM, PA 6 KKA K. A. GRAHAM, IL 101 KGR G. KNIGHT, ME 297 GRL B. H. GRANSLO, NORWAY 2395- GRI J. W. GRIESE III, CT 759- GRI J. W. GRIESE III, CT 759- GRL M. GROVE M.D., MI 360 KKF K. W. GROVE M.D., MI 360 KKF K. W. GROVE M.D., MI 360 KKF K. F. KOEHLER, AZ GRI J. W. GRIESE III, CT 759- GRI J. W. KNOWLES, MA 22 COG C. GUALDONI, ITALY 142 KKF F. KOEHLER, AZ 776 KKI G. G. A. KOHL, AZ 776 KKI G. A. KOKINGEN, GREECE 304 KKI M. KOHL, SWITZERLAND 527 KAS A. KOKKINEDIS, GREECE 304 KKI M. KOLE, NETHERLANDS 127 KAS A. KOKKINEDIS, GREECE 304 KKI M. KOLE, NETHERLANDS 127 KAS A. KOKKINEDIS, GREECE 304 KKI M. KOLE, NETHERLANDS 127 KAS A. KOKSHING, AJPAN 439 KAU A. L. KOSTER, WI 41 LOUGHVAL, AL 101 LI HAMPTON, CANADA 12 KOA M. KOSHIRO, JAPAN 439 KAU A. L. KOSTER, WI 41 LOUGHVAL, AL 101 LI HAMPTON, CANADA 12 KOA M. KOSHIRO, JAPAN 439 KAU A. L. KOSTER, WI 41 LOUGHVAL, AL 101 LI HAMPTON, CANADA 12 KOA M. KOSHIRO, JAPAN 439 KAU A. L. KOSTER, WI 41 LOUGH AL 11 LI HAMPTON, CANADA 12 KOA M. KOSHIRO, JAPAN 439 KAU A. L. KOSTER, WI 41 LOUGH AL 11 LI HAMPTON, CANADA 12 KOA M. KOSHIRO, LANDAN 13 KKI K. KRISCIUNAS, HI 40 LOUGH AL 14 LOUGH AL 15 LOUGHUS, FRANCE 198 LOUGHUS, FRANCE 199 LOUGHUS, FRANCE 198 LOUGHUS, FRANCE	GLG G.	W. GLIBA, MD	8		KRB R.	P. KING, MN	
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HDB B. F. HUDGENS, MS 19 LEB*R. LEBERT, FRANCE 498 HJA J. A. HUDSON, CA 194 LEG*L. LEGER, FRANCE 18				10		•	
HJA J. A. HUDSON, CA 194 LEG*L. LEGER, FRANCE 18							
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TABLE III (cont'd)

T 1370 C	D I DNG OM	-	MDV D W MULTICAN ON 102
	•	5	MFK F. K. MULLIGAN, CA 193
	L. LEONARD, IL 11		MUN C. R. MUNFORD, ENGLAND 125
	J. LEVEQUE, CA 25		MHN&H.MUNSTERMAN, NETHERLANDS 3
	W. LIFGREN JR., NY LIN, CA	9	MJC M. J. MURPHY, FL 262
	C. LINDBLOOM, PA 493		NRH R. H. NELSON, CANADA 46 NLZ~L. NEMETH, HUNGARY 21
	LINGAS, NORWAY 27	_	NLZ~L. NEMETH, HUNGARY 21 NPJ P. J. NEWMAN, TX 7
	F. LOBLAW, CANADA 54		NGU*J. NGUYEN, FRANCE 209
	W. LOHVINENKO, CANADA 31		NVG V. G. NIELSEN, DENMARK 69
	V. LOPATYNSKI, CA 28		NWL&W. NOBEL, NETHERLANDS 24
	LORSIGNOL, FRANCE		NTS T. S. NORTON, MA 136
	LORSIGNOL, FRANCE 44		NOG G. T. NOWAK, VT 100
	J. LOS, NH 25		OBG G. J. O'BRIEN MD, CT 66
	M. LOWDER, NY 533		OJO J. O. OLESEN, DENMARK 170
	F. LUBBERS, MN 110		OV E. G. ORAVEC, NY 3125
LCG C	LUDWIG, BELGIUM 54		OJR J. R. OSORIO, SPAIN 538
	O. LUURS, NETHERLANDS 80		OB M.D.OVERBEEK, S.AFRICA 11622- 424
	LYNCH, RI		PTL T. S. PALMESEN, NORWAY 11
	J.MACDONALD II, CANADA 2		PCP C. PAMPALONI, ITALY 38
	K. MALMROS, PA 3:		PRL R. PARMENTIER, WI 19
	MANGELSDORF, WI		PRN R. M. PATRICK, PA 802-232
	C. MARIONI, ARGENTINA 9		PAR R. H. PATTERSON JR., NY 11- 2
MRX H.	MARX, W. GERMANY 182	2~ 19	PLZ L. PAZZI, S. AFRICA 690- 35
MTH H.	MATSUYAMA, JAPAN 16	6	PN A. E. PEARLMUTTER, MA 337
	MATTEO, ITALY 7: MAXSON, AZ 8:	9	PEI E. PEDERSEN, DENMARK 29
MPX P.		9	PEG*C. PEGUET, FRANCE 551
MYR E.	H. MAYER, OH 340	8-1615	PZA*A. PEREZ-REVILLA, FRANCE2197- 1
			PFK F. PESCI, ITALY 692
MKJ J.	F. MCKENNA, NJ 107	6- 50	PSO S. PESCI, ITALY 1037
	P. MCMILLAN, NC 800	0	PED D. B. PETTENGILL, FL 1242- 2
MSD D.	L. MEANS, IA	3 0	PIJ~J. PIRITI, HUNGARY 327
MIB I.	B. MEDIAS, NORWAY 180	0	PWR R. E. POWASKI, OH 62
MED K.	J. MEDWAY, ENGLAND 195	0	PRI L. H. PRICE, SC 37 PRG G. PROSSER, S. AFRICA 101
MDG D.	L. MEGGINSON, MO 24	7	PRG G. PROSSER, S. AFRICA 101
MHI H.	I. MENALI, TURKEY 2	6	RHT H. RAUSCHKA, AUSTRIA 2
MPY P.	MEYERS, S. AFRICA 6	9	REH D. REHNER, OH 18
	MEZOSI, HUNGARY 81		RFK F. REIN, NJ 17
	MIDTSKOGEN, DENMARK 79		REP P. REINHARD, AUSTRIA 32
	E. MILTON, CA 15	9- 7	RNT C. C. REINHART, OH 26
	A. MIMNA, OH 2.	1	REN*J. RENAULT, FRANCE 179
	R. MINER, IN 4.	2	RRC R. C. REISENWEBER, PA 14
MIS*J.		7	RJI J. I. RIGGS, NY 1002- 153
		3- 5	RSB S. RITTERBUSH, NH 57- 3
	MITRA, INDIA		RJM J. C. ROEMMELT, MI 1
		_	RB D. W. ROSEBRUGH, FL 460
	R. MOCARSKI, IL 2		ROG G. M. ROSS, MI 55- 2
	MOCHIZUKI, JAPAN 1	_	RR R. E. ROYER, CA 49
	G. MOHRBACHER, OH 5		RPH H. RUMBALL-PETRE, CA 14
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	R. MONGER, FL 9		RAN A. RUTTER, NY 10 RPJ P. J. RYAN, MS 11
	MONIOT, NY 5 L. MONSKE, PA 48		RPJ P. J. RYAN, MS 11 SJD J. D. SABIA, PA 4- 1
	L. MONSKE, PA 48 C. MONTAGUE, MI 94	_	SJC J. C. SADOW, LA 111
	J. MORBIDELLI, ITALY 54		SGT T. SAGODI, HUNGARY 443
			SSU S. SAKUMA, JAPAN 630-162
	A. MORGAN, WI 7 E. MORGAN, AZ 13		SRL R. SALA, ITALY 25
			SAH G. SAMOLYK, WI 2032
	G. MORRISBY, ZIMBABWE 2	_	SSR R. SAMPSON, CANADA 38
	C. MORRISON, CANADA 412		SVT T. G. SAVILLE, ENGLAND 686

TABLE III (cont'd)

SSC S. M. SCHIMPF, CA 18		TRY R. TRANK, IL 5
SMF F. SCHMIDT, NY 389		TGW&G.TREMONTI, NETHERLANDS 151
SCY A. SCHROYENS, BELGIUM 94		TDM D. M. TROIANI, IL 1997- 5
SDH D. SCHROYENS, BELGIUM 28		TJC J. C. TRUAX, MI 27
SRD R. H. SCHMIDT, MN 54		TUB~V. TUBOLY, HUNGARY 131- 1
SCZ*M. E. SCHWEITZER, FRANCE4669	- 50	TUC C. TURK, S. AFRICA 20
		TYS R. L. TYSON, NY 160
SEE E. H. SEIFERT JR., NE 29	1243	UND G. E. UNDERHAY, CA 195- 1
SHS S. B. SHARPE, CANADA 2287	_ ^^	VFR F.VACLIK, CZECHOSLOVAKIA 34
SSA A. P. SHARPLESS, WA 30	77	VAI*J. VAIDIS, FRANCE 1256
SRC R.SHINKFIELD, AUSTRALIA 25		VCP P. VAN CAUTEREN, BELGIUM 233- 32
SJA A. J. SHORTEN, ENGLAND 89		VJD J. VANDEVOORDE, BELGIUM 26
SLH L. J. SHOTTER, PA 240		VDJ&J. VAN DIJK, NETHERLANDS 13
SKL K. SIMMONS, FL 12	- 9	VNL F. R. VAN LOO, BELGIUM 241- 16
	_ 127	
ana a	- 12/	VWS J.VANWASSENHOVE, BELGIUM 159
		VPL P. VARELA, ARGENTINA 12
SOF O. SKJAERAASEN, NORWAY 28 SHA H. A. SMITH, MI 13		VWD&W.V.D.VELDE, NETHERLANDS 71
		VED*P. VEDRENNE, FRANCE 4912
		VRG R. VENNE, CANADA 68
		VET*M. VERDENET, FRANCE 7773-4214
~~~		VIA*J. VIALLE, FRANCE 609
		VIL*A. VILLETORTE, FRANCE 19
SPO J. SPONGSVEEN, NORWAY 273		VIN J. V. VINCENT, ZIMBABWE 384
SC C. E. SPRATT, CANADA 412	- /4	VYP P. VUYLSTEKE, BELGIUM 192- 3
SPG N. G. SPRYN, MD 8	120	WKP P. R. WALKER, VT 13
STR R. H. STANTON, CA 164		WND*D. WALLIAN, FRANCE 46
SKS T. STECKNER, CANADA 220		WMJ&J.WARMERDAM, NETHERLANDS 51
STI P. STEFFEY, CA 91		WWA W. A. WASHBURN, GA 19
SGP P. E. STEGMANN, NJ 9		WBB W. V. WEBB, OH 212
SET C. STEPHAN, FL 337		WER R. J. WEBER, KS 299-144
STF G.STEPHANOPOULOS, GREECE 982		WCB C. B. WEBSTER, PA 285- 7
SDR R. D. STEPHENS, CA 88		WEI D. D. WEIER, WI 1080-344
SWT R. J. STEWART, NJ 244		WC R. E. WEND, IL 478- 3
STQ N. STOIKIDIS, GREECE 123		WEF F. R. WEST, AL 1213
SNJ N. STRITOF, YUGOSLAVIA 26		WTJ J. E. WEST, TX 275
SGM M. D. SUGARMAN, CA 9		WYT T. A. WEYENBERG, WI 211
SJN J. E. SULLIVAN, OK 20	_	WI D. B. WILLIAMS, IN 1698- 10
HUO D. J. SVENTEK, TX 73	_	WDJ D. J. WILLIAMS, TN 9
SVN P. L. SVENTEK, TX 1078		WMR R. H. WILLIAMS, VT 32
SBA~A. SZABOLCS, HUNGARY 20	- 1	WLP P. WILS, BELGIUM 786-114
SOZ~L. SZANTHO, HUNGARY 673		WJA J. A. WILSON, MO 630
TZR R. G. TANZER, NJ 27		WSN T. W. WILSON, WV 754-249
TU D. C. TAULMAN, TX 18		WCL C. L. WOMACK, TX 882
TPS~I. TEPLICZKY, HUNGARY 355		YON R. R. YOUNG, PA 152- 2
TM H. D. THOMAS, WA 259	- 1	ZGZ~G. ZAJACZ, HUNGARY 350
TMR R. P. THOMAS, CA 512		ZLT~T. ZALEZSAK, HUNGARY 430- 5
THR R. R. THOMPSON, CANADA 239	-	ZJJ J.J.ZAMICHIEI, ARGENTINA 3
TRJ R. J. THOMSON, S. AFRICA 115	- 1	ZAM M. ZANOTTA, ITALY 56- 17
THU*B. THOUET, FRANCE 438		ZPA P. A. ZELLER, IN 78
TBC B. TIC, CANADA 158		
TAN~A. TOLGYESI, HUNGARY 46		

^{*} also member of Association Française des Observateurs d'Étoiles Variable (AFOEV). ~ also member of Pleione Változócsillag-észlelő Hálózat (Hungary). & also member of Nederlandse Vereniging Voor Weeren Sterrenkunde, Werkgroep Veranderlijke Sterren (NVVWS, WVS).

## TABLE IY

# List of Individuals Requesting AAVSO Data During Fiscal Year 1983-1984*

Aliaga, R.	Spain
Anttila, R.	University of Helsinki Observatory, Finland
Balonek, T.	Williams College, MA
Bartolini, C.	Universita degli Studi di Bologna, Italy
Benz, A.	Institut fur Astronomie, Eidgenossische
	Technische Hochschule, Switzerland
Benz, A.	Institut fur Astronomie, Eidgenossische
•	Technische Hochschule, Switzerland
Benz, A.	Institut fur Astronomie, Eidgenossische
•	Technische Hochschule, Switzerland
Berry, R.	Astronomy magazine
Bode, M.	Los Alamos National Laboratory, NM
Bopp, B.	University of Toledo, OH
Bowers, P.	Naval Research Laboratory, DC
Boyd, M.	Science Digest magazine
Brocious, D.	Smithsonian Astrophysical Observatory, AZ
Bujarrabal, V.	Centro Astronomico de Yebes, Spain
Burnham, R.	Astronomy magazine
Burnham, R.	Astronomy magazine
Burnham, R.	Astronomy magazine
Bushing, W.	California
Cadmus, R.	Grinnell College, IA
Cadmus, R.	Grinnell College, IA
Cadmus, R.	Grinnell College, IA
Cannizzo, J.	Center for Astrophysics, MA
Carpenter, K.	University of Colorado
Celestian, S.	Arizona
Chakravorty, R.	India
Chanmugam, G.	Louisiana State University
Chandler, D.	The Boston Globe, MA
Clarke, J.	University of California at Berkeley
Clarke, J.	University of California at Berkeley
Clarke, J.	University of California at Berkeley
Cohen, J.	California Institute of Technology
Cordova, F.	Los Alamos National Laboratory, NM
Cordova, F.	Los Alamos National Laboratory, NM
Coulombe, A.	Universite de Montreal, Canada
Cragg, T.	Anglo-Australian Observatory, Australia
Crowe, R.	University of Toronto, Canada
Crowe, R.	University of Toronto, Canada
DePoy, D.	University of Hawaii
Detterline, P.	Boyertown Area School District, PA
Dunham, D.	International Occultation Timing
	Association (IOTA), MD
Elvis, M.	Center for Astrophysics, MA
Elvis, M.	Center for Astrophysics, MA
Faulkner, J.	University of California at Santa Cruz
Faulkner, J.	University of California at Santa Cruz
Feast, M.	South African Astronomical Observatory
Foley, J.	Maine
Fournier, C.	France
Friday, M.	Pennsylvania
Garnavich, P.	Space Telescope Science Institute, MD
Gillet, D.	European Southern Observatory, W. Germany
Gillet, D.	European Southern Observatory, W. Germany
Graham, F.	Pennsylvania
Gravina, M.	Observatoire de Lyon, France
Hadley, D.	University of Texas
Heise, J.	Space Research Utrecht, Netherlands
Heise, J.	Space Research Utrecht, Netherlands
	True

### TABLE IV (cont'd)

```
Hoeppe, G.
                           W. Germany
Hoeppe, G.
                          W. Germany
Hoeppe, G.
                          W. Germany
Hoffleit, D.
                          Yale University, CT
                          Space Telescope Science Institute, MD
Holm, A.
Iijima, T.
                          Universita di Padova, Italy
Johnson, H.
                           Indiana University
Johnson, R.
                           Hastings College, NE
                          Naval Research Laboratory, DC
Johnston, K.
Kaitchuck, R.
                          Ohio State University
                          University of Toronto, Canada
Keith, D.
Kenyon, S.
                           Center for Astrophysics, MA
                          University of Leicester, England
University of Leicester, England
King, A.
King, A.
Kiplinger, A.
                           NASA Goddard Space Flight Center, MD
Kohl, M.
                          Switzerland
                          State University of New York at Stony Brook
Kratz, D.
                         United Kingdom Infrared Telescope Unit, Hawaii
Krisciunas, K.
Ladd, E.
                         Los Alamos National Laboratory, NM
                          Los Alamos National Laboratory, NM
Ladd, E.
Landolt, A.
                          Louisiana State University
Latham, A.
                           Jonas Clarke Junior High School, MA
                          University of California at Santa Cruz
Wellesley College, MA
Linn, D.
Little, I.
Lovik, T.
                           Stavanger Astronomiske, Norway
MacRobert, A.
                           Sky & Telescope magazine
Maccarini, L.
                           Italy
Marcey, B.
                           Virginia
                           University of Toronto, Canada
University College, England
Martin, P.
Mason, K.
Mason, K.
                           University College, England
                           University College, England University College, England
Mason, K.
Mason, K.
Mayall, M. and Mayall, N.Massachusetts
McGloin, M.
                           NASS-TV, Ontario, Canada
                           University of Leicester, England
McKay, M.
Mead, J.
                           Pennsylvania
Mennessier, M.
                           Université des Science et Technique du
                           Languedoc, France
                           NASA Goddard Space Flight Center, MD
Michalitsianos, A.
                           NASA Goddard Space Flight Center, MD
Michalitsianos, A.
Milone, E.
                           University of Calgary, Canada
                           Central School, India
Mitra, U.
Mozurkewich, D.
                           University of Wyoming
Nagy, T.
                           Indiana State University
Nyman, L.
                           Onsala Space Observatory, Sweden
O'Brien, G.
                           Connecticut
                           University of Durham, England University of Durham, England
Osborne, J.
Osborne, J.
                          European Southern Observatory, W. Germany
Parmar, A.
Patterson, J.
                          Columbia University, NY
                          Columbia University, NY
Patterson, J.
                          Columbia University, NY
Patterson, J.
Percy, J.
                           University of Toronto, Canada
Pesci, S.
                           Italy
                           University of Arizona
Polidan, R.
                          University of Arizona
Polidan, R.
Polidan, R.
                          University of Arizona
Polidan, R.
                         University of Arizona
                          Observatoire du Pic-du-Midi, France
Querci, F.
Rawlings, G.
                          New York
Raymond, J.
                           Center for Astrophysics, MA
                           Center for Astrophysics, MA
Raymond, J.
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### TABLE IV (cont'd)

```
Robinson, E.
                             University of Texas
Santos, F.
                             Portugal
Sasselov, D.
                             University of Sofia, Bulgaria
Schlegel, E.
                             Indiana University
Shafter, A.
                             University of Texas
Shara, M.
                             Space Telescope Science Institute, MD
Sion, E.
                            Arizona State University
Slovak, M.
                            University of Wisconsin
Snyjders, T.
                            Royal Greenwich Observatory, England
Snyjders, T.
                            Royal Greenwich Observatory, England
Snyjders, T.
Snyjders, T.
Snyjders, T.
                            Royal Greenwich Observatory, England
                            Royal Greenwich Observatory, England
                             Royal Greenwich Observatory, England
Stover, R.
                            University of California at Santa Cruz
University of California at Santa Cruz
Stover, R.
Stover, R.
                             University of California at Santa Cruz
Stover, R.
                             University of California at Santa Cruz
Szkody, P.
                             University of Washington
Szkody, P.
                             University of Washington
                            University of Michigan
University of Wisconsin
Teska, R.
Tomlin, R.
                            Nobeyama Radio Observatory, Japan
Ukita, N.
Umato, A.
                             University of Michigan
Van de Woerd, H.
                             Space Institute, Netherlands
Viotti, R. Viotti, R.
                            CNR Astrofisica, Italy
                             CNR Astrofisica, Italy
                            University of Washington
University of Washington
Wallerstein, G.
Wallerstein, G.
                            University of Washington
Wallerstein, G.
Wallerstein, G.
                            University of Washington
Wallerstein, G.
                            University of Washington
Watson, M.
                            University of Leicester, England
                            University of Leicester, England
University of Leicester, England
University of Leicester, England
Watson, M. Watson, M.
Watson, M.
                            University of Leicester, England
Watson, M.
Wheeler, C.
                            University of Texas
Whitelock, P.
                            South African Astronomical Observatory
Whitesell, R.
                            South Carolina
Wilbur, A. Wlasuk, P.
                            Science Digest magazine
                            Yale University, CT
Wolf, J.
                             Queens College, NY
Wood, J.
                            University of Cambridge, England
Zuckerman, B.
                            University of California at Los Angeles
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^{*} Name repeated for each request.