

110²²

ANNUAL REPORT OF THE DIRECTOR OF THE AAVSO
FOR THE YEAR ENDING SEPTEMBER 30, 1971

On this occasion of the 60th Anniversary of the AAVSO, I am very pleased to present my 22nd Annual Report as Director of the Association for the year 1970-71. It has been an eventful year, and as usual seems better and more interesting than any year in the past.

We continue to have some very fine student help. We train them to key punch, but most important, we train them to be alert for errors on the observers' reports and to stop and look up questionable entries. They learn to punch intelligently and not mechanically. We have now punched about one million (1,000,000) cards in the 3¹/₂ years we have had the machines.

The munificent bequest from Dr. Walter B. Ford insures a secure future for the Association. The notice of it came at a very critical time. The rental lease on our office was expiring and in addition, we had to make a quick decision as to whether or not we should take over adjacent space which would be available in a few months. We were able to sign a new lease with the additional space and are now enjoying an office where we are not too crowded and have very good working conditions.

SPECIAL REQUESTS. Many requests for special information on the variables of our program continue to come in.

In the fall of 1970, Dr. Keenan of Ohio State University asked for a rush project to supply phases and magnitudes for about 300 dates on which he had spectral observations of Mira stars. Several months later, Dr. Robert Garrison of the David Dunlap Observatory, who was working with Dr. Keenan on the spectra of Mira stars, sent us an additional list of about 650 dates for which he would like similar information.

Dr. Augusto Mammano of the Astrophysical Observatory in Asiago, Italy had some very interesting spectroscopic information on WY Geminorum during 1967-71 and asked for our light curves covering that period.

C.T. Bolton of the David Dunlap Observatory was planning an observational search for technetium in N-type variables. He was to use high dispersion spectra and had to work near maximum brightness, so asked us for predicted times of maxima for a group of stars.

Dr. Wayne Stein of the University of California at San Diego has been observing R Cor Bor in the infrared since 1968. He needed the visual light curve during that period to help in his analysis.

Robert Gehrig of the University of Minnesota was making an infrared study of RV Tauri type stars and other semi-regular variables and asked for visual light curves of a group of them from 1968 to the present.

Dr. Erik Olsen of the Copenhagen Observatory, Denmark, had made seven-color narrow-band photometry of R Sct and U Mon during 1965-67. Mr. B. Larsen was reducing them and requested our visual curves for comparison.

Frequent long distance telephone calls come in asking for specific information on interesting variables. It is only by keeping up-to-date complete plots of all observations we receive that we can answer requests of this sort. Our thanks to the observers who send their reports promptly near the first of each month.

MEMBERSHIP. At our Annual Meeting at Woods Hole in 1970 we elected 1 sustaining member and 75 annual members. In addition 4 members changed to sustaining: Alice R. James, Gene Lucas, Noel Peattie, and Frederick Pilcher. At the Spring 1971 meeting in Rochester we elected 58 new members and Howard J. Landis and Hoy J. Walls changed from annual

to sustaining.

We deeply regret the death of 4 members: Robert Greenley, James Pritchett, Armand Spitz and Gordon Schroeder.

SUBSCRIPTIONS TO PUBLICATIONS. Thirty-seven observatories and scientific libraries subscribe to our publications and several others subscribe to individual items, such as Bulletins, Abstracts, Reports and Solar Bulletins.

REQUESTS FOR INFORMATION. About 600 requests were received during the year for information about the AAVSO and our work on variables, the sun, Nova Search and occultations. Some are from people who are just curious but many are seriously interested.

LIBRARY. The McAteer Library continues to grow, with the addition of about 300 serial publications each year, plus a few books.

PUBLICATIONS. Following the 1970 Annual Meeting, we published reports from the Director, Treasurer and various Committees. After the first of the year we distributed a new membership list, a list of officers and committee members; a Julian Day Calendar, Bulletin 34, Predictions of Dates of Max and Min for 1971, and Bulletins 34A and 34B, graphical predictions for variables fainter than 13 and brighter than 11, prepared by Clinton B. Ford and John E. Bortle, respectively. News Notes edited by Carolyn Hurless, and Abstracts of papers edited by R. N. Mayall, were published after the Fall and Spring Meetings.

Casper H. Hossfield publishes the Solar Bulletin, edited by Keith Strait, a monthly bulletin on solar activity, with reproductions of recordings of solar flares.

A list of long period variables which reach maximum of at least 8th magnitude are published each month in Sky & Telescope. Also, sunspot numbers as determined by the Solar Division and by Zurich are printed monthly in the magazine.

A short article on notes on activities of some of the interesting variables is written by the Director for each issue of the Journal of the Royal Astronomical Society of Canada. In addition the Journal publishes a list of observers and their monthly totals.

Marvin E. Baldwin, Chairman of the Eclipsing Binary and RR Lyrae Committees, publishes bulletins for the observers and monthly predictions of times of minima.

Predicted dates of max and min of a special list of variables and approximate times of minima of Algol are prepared for the RASC Handbook. Other predictions are made for C.L. Johnson's Celestial Calendar and Handbook.

The new AAVSO Circular, edited and published by John E. Bortle and Charles Scovil is proving to be a very useful medium for the quick publication of observations of the unusual variables. It is also valuable for the rapid distribution of charts for newly discovered novae.

After many delays and disappointments we published AAVSO Report 28 in December 1970. It contains the first of our computer plotted 10-day mean light curves of 464 long period variables. It covers the 700 day interval from 22 October 1961 to 21 September 1963. Report 29 which will have light curves of the U Gem, Z Cam, R CrB, and other variables requiring 5- or 1- day means for the same time interval is nearly ready for the final layout for publication. The new format of our reports has been well received by professionals and amateurs.

ANNUAL SUMMARY OF OBSERVATIONS. We received 1715 reports from 341 observers containing 125,789 observations. We passed our milestone of 3,000,000 observations on the night of 3 July 1971 when Ernst Mayer observed the faint U Gem-type variable DX And at about 16.0 magnitude.

Forty-nine observers sent in regular monthly reports and 16 missed only one month each. We are grateful to these observers, especially if they send their reports near the first of the month. It enables us to keep our light curves plotted as near up-to-date as possible.

Table I lists the 21 countries in which we had observers. We also received reports from 42 States of the USA, which are listed in Table II.

TABLE I - COUNTRIES

<u>Country</u>	<u>No. Observers</u>	<u>Total Obs.</u>	<u>Country</u>	<u>No. Observers</u>	<u>Total Obs.</u>
Argentina	2	7572	Mexico	1	84
Australia	3	932	Pakistan	1	17
Brazil	6	402	Peru	1	3
Canada	22	5545	Rhodesia	1	1030
Eire	1	258	S. Africa	1	1184
France	1	267	Santo Domingo	1	49
German Dem. Rep.	1	642	Switzerland	2	3764
Greece	1	283	United Kingdom	1	3607
Hungary	44	3842	U.S.A.	233	83,117
Italy	1	24	West Germany	14	11,873
Japan	3	1294	Total	341	125,789

TABLE II - UNITED STATES

Alabama	2	228	Kentucky	1	3	N. Carolina	6	2263
Arizona	3	290	Louisiana	4	403	Ohio	25	14,480
California	21	6616	Maryland	1	341	Oregon	3	150
Colorado	4	302	Maine	3	179	Pennsylvania	8	2173
Conn.	12	4983	Mass.	10	629	Puerto Rico	1	7
D.C.	1	9	Michigan	7	4358	Rhode Island	2	15
Florida	15	4410	Minnesota	5	2680	S. Carolina	3	55
Georgia	4	221	Missouri	8	2478	Tennessee	2	46
Idaho	1	21	Montana	4	2175	Texas	10	2461
Hawaii	2	45	Nebraska	1	6	Vermont	1	13
Illinois	10	2533	N. Hampshire	2	368	Virginia	5	6069
Indiana	3	41	New Jersey	7	801	Washington	2	1421
Iowa	1	888	New Mexico	2	173	W. Virginia	1	1086
Kansas	1	45	New York	22	15261	Wisconsin	7	2427
			Total			233		83,117

Table III lists all observers who contributed observations during the year 1970-71 in order of their year's totals. The list contains the code initial of each observer, his name and country or state and his total number, followed by S and a number, if he made Inner Sanctum observations (fainter than 14), PEP or Ptm if some or all of his observations were Photoelectric or Photometric. Forty-five observers made 6,797 Inner Sanctum observations, 5 made PEP measures; Howard Landis, Allen Heasley, Ted Szybowicz, Doyle Peterson and Chandler Holton. Charles Scovil and H.E.M. Specht sent measurements from photometric plates.

Our top observer again this year was Mario Vattuone of the Argentina Republic, with 7,484 observations. Next came Wayne Lowder of New York with 6,082 observations and 38 Inner Sanctums, then Ernst Mayer with 5,005 and 1,156 Sanctums and Thomas Cragg with 4,659 and 1,031 Sanctums. Fourteen observers made more than 2,000 observations each, and 38 made more than 1,000 each. Of the 38, 21 made Sanctums.

TABLE III - AAVSO OBSERVERS

1	VAM	Mario Vattuone, Arg.	7484			47	HK	Edward Halbach, Wisc.	788	S	103
2	LX	Wayne M. Lowder, N.Y.	6082	S	38	48	TMR	Ron Thomas, California	763		
3	MYR	Ernst H. Mayer, Ohio	5005	S	1156	49	SCE	C.E. Scovil, Conn.	Ptm 762	S	218
4	CR	Thomas Cragg, Cal.	4659	S	1031	50	MRX	Harald Marx, Germany	749		
5	LKS	Rainer Lukas, Germany	3763	S	18	51	RB	David Rosebrugh, Florida	665		
6	HE	Lancaster Hiatt, Va.	3639	S	2	52	ODA	Donald Ortwein, N.Y.	646		
7	KOJ	O.J. Knox, U.K.	3607	S	186	53	AH	Paul Ahnert, Germany	642		
8	HR	Carolyn Hurless, Ohio	3572	S	748	54	LGH	Herbert Lange, Canada	584		
9	FD	Clinton Ford, Conn.	3266	S	738	55	SVN	Paul Sventek, Illinois	541		
10	BRJ	John E. Bortle, N.Y.	2716	S	6	56	MHL	Edward Michaels, Texas	523		
11	AC	Curtis Anderson, Minn.	2644	S	47	57	MJ	A.C. Montague, Michigan	517	S	5
12	LK	Kurt Locher, Switz.	2548	S	4	58	LIM	Roy Lima, Florida	502		
13	OV	Edward Oravec, N.Y.	2474			59	HGM	Michael Hogan, Canada	487		
14	BM	Marvin Baldwin, APO NY	2197			60	AJR	J. Robert Andress, Ohio	461	S	6
15	PAT	Chet Patton, Mich.	1992	S	12	61	WLL	Hoy J. Walls, Texas	457		
16	BAU	Johann Bauer, Germany	1918			62	KHJ	Herbert Koller, Canada	449		
17	HZL	Lawrence Hazel, N.Y.	1842	S	331	63	KRK	Kevin Krisciunas, Ill.	445		
18	BJ	James Banks, N.C.	1828			64	SLB	Bruce Small, Florida	436		
19	P	Leslie Peltier, Ohio	1781	S	641	65	SB	Robert Swanberg, Montana	435	S	66
20	AD	Robert Adams, Mo.	1733	S	375	66	WLM	Thomas Williams, Texas	410		
21	FE	Cyrus F. Fernald, Fla.	1674			67	KSZ	A. Keszthelyi, Hungary	375		
22	KPP	Pat Knupp, Montana	1448			68	TYL	Lee R. Taylor, N.C.	365		
23	HUB	Russell Hubbard, Wash.	1418			69	TJ	James Thomas, Ohio	357	S	190
24	DRG	R. Diethelm, Switz.	1216	S	1	70	RNN	Thomas Renner, Wisconsin	345	S	29
25	DK	Reginald deKock, S.Afr.	1184			71	FLR	Dale Fuller, Maryland	341		
26	KIS	Gunther Krisch, Ger.	1183			72	DS	J.M.L. da Silva, Brazil	340		
27	LNS	Ivars Lenss, Mich.	1175			73	MRR	Chas. S. Morris, Michigan	336		
28	NN	Rodney Norden, Va.	1134			74	MM	Francis Morgan, Canada	327		
29	MUR	Paul Murn, Wisc.	1133	S	107	75	CNT	Dean Chantiles, N.Y.	318		
30	ISH	T. Ishihara, Japan	1094			76	PN	A. Pearlmutter, Mass.	318		
31	WSN	Thomas Wilson, W.V.	1086	S	19	77	RNR	Lynn O. Raynor, N.H.	314	S	7
32	NGY	A. Nagy, Hungary	1073			78	BLN	Thomas Balonek, N.Y.	312		
33	ZMM	D. Zimmerman, Ohio	1069	S	183	79	UND	Ernie Underhay, Calif.	311		
34	KLY	George Kelley, Va.	1039	S	20	80	LVR	Rick Lavery, Canada	308		
35	MB	A. Morrisby, Rhodesia	1030			81	FR	E.E. Friton, Missouri	296		
36	LS	Diane Lucas, Ohio	1028	S	273	82	FS	D. Florkowski, Michigan	288		
37	CDE	John Calder, Canada	1019			83	MP	C.A. McPherson, Montana	288		
38	SC	C. Spratt, Canada	1014			84	SHA	Horace Smith, Conn.	287		
39	HEE	E. Heiser, Germany	982			85	DLT	John Dalton, Conn.	286		
40	LNB	G.G. Lindbloom, Pa.	958			86	MEZ	Csaba Mezoszi, Hungary	286		
41	CCR	Harry Cochran, Texas	917	S	31	87	STF	G. Stephanopoulos, Greece	283		
42	HGD	Richard Hodgson, Iowa	888			88	VIS	Gary Visocki, Illinois	278		
43	COB	Ben Conner, Illinois	853			89	KND	L.J. Kendall, Canada	277		
44	MTV	V. Matchett, Australia	842			90	OF	A. Oberstatter, France	267	S	1
45	MOR	Robert Monske, Penn.	829	S	41	91	CNS	Martin Connors, Canada	261		
46	GSR	Ralph Geschwind, Ohio	816	S	4	92	WRD	Colm Ward, Eire	258		

93 STA	Allen Stearns, N.J.	249	149 KOL	L. Kovacs, Hungary	93
94 GRN	Jerome Green, Florida	240	150 GLF	Florence Glenn, N.Y.	92 S 2
95 JT	Robert Johnston, Canada	238	151 CUT	B.D.Cuthbertson, Texas	91
96 BZC	Carmine Borzelli, N.J.	229 S 52	152 LES	Daniel Lester, Oregon	91
97 SOM	Clara Somogyi, Hungary	228	153 CK	Stephen Cook, California	89
98 PSC	Mihaly Pocs, Hungary	220	154 BLC	Omar Blanco, Argentina	88
99 DKF	M. Durkefalden, Germany	219	155 NEL	George Nelson, California	86
100 GAL	Peter Gal, Hungary	219	156 TB	Domingo Taboada R., Mexico	84
101 SGL	Michael Stiegler, Germany	219	157 RNT	Charles Reinhart, Ohio	82 S 2
102 TOT	Tibor Torma, Hungary	214	158 HSF	Casper Hossfield, N.J.	81
103 WTN	Blake Witten, Arizona	214	159 SZV	Peter Szilvay, Hungary	81
104 BKN	Alan Birkner, Illinois	213	160 CRY	James Currie, Ohio	69
105 PFF	Gerhard Pfeiffer, Germany	210	161 BRT	Timothy Brown, Arizona	68
106 GNT	Paul Gruntmeyer, Mass.	206	162 TYR	Mary Jane Taylor, Florida	67
107 MRE	Edwin Morris, Alabama	204 S 34	163 FSO	Geza Felso, Hungary	66
108 TPR	R.R.Thompson, Canada	197	164 SRC	R.C.Shinkfield, Australia	61
109 BIL	Gerald Bilodeau, Calif.	193 S 1	165 VNY	Douglas Varney, Maine	61
110 SSA	A.P.Sharpless, Florida	192	166 WLE	Joseph Walder, California	58
111 MIT	Fedor Mitschke, Germany	191	167 FT	G.L Fortier, Canada	57
112 NAY	Rozalia Nagy, Hungary	191	168 LCK	Alfred Lockhart, Colo.	55
113 KOV	E.Zoltan Kovacs, Hungary	184	169 AK	C.A.Anderson, N.H.	54
114 SMH	C.J. Smith, Canada	184	170 COK	Ryan D. Cook, N.M.	54
115 SKL	Karl Simmons, Florida	181	171 GLG	George Gliba, Ohio	54
116 VBN	David Van Buren, N.Y.	181	172 LEW	David Lewis, Georgia	54
117 TAY	Peter O.Taylor, Florida	179	173 BLU	Bruce Blundell, N.Y.	53
118 BQ	Lewiss Bartha, Hungary	172	174 HY	Allen Heasley, Ohio	53 PEP
119 QD	Peter Quadt, N.J.	168	175 RR	Ronald Royer, Calif.	52
120 HIR	Yasuo Hirasawa, Japan	163	176 ZT	Raymond Zit, Wisconsin	50
121 GTG	Conrad Gottig, Germany	161	177 HAE	Ernie Hatai, California	49
122 BRK	James Brooks, Virginia	156 S 33	178 MHA	Pedro Marchena, Dom.Rep.	49
123 WJA	James Wilson, Missouri	155	179 PO	Eugene Powell, Georgia	48
124 JCB	Donald Jacob, La.	153	180 NLT	Richard Nolthenius, Calif.	47
125 BRB	Barry Brown, Penn.	151	181 WRN	Randy warden, Penn.	46 S 4
126 MAA	Russell Maag, Missouri	149 S 1	182 CST	Glenn Christensen, Calif.	45
127 HMR	Ronald Ham, Colorado	140	183 DV	Greg Davidson, Kansas	45
128 HAN	James Hannon, Conn.	134	184 KRS	Roger Kolman, Illinois	45
129 LYT	Thomas Lawry, La.	126	185 JUS	Charles Janus, N. J.	44
130 SKR	Eric Simpkins, N.Y.	126	186 MJR	Jerald Mishler, Oregon	44
131 GLW	William Glenn, N.Y.	123 S 3	187 SZY	T. Szybowicz, Michigan	41 PEP
132 KPL	Paul Kneipp, La.	123	188 FLD	Maurice Flood, N.C.	40
133 FRW	walter Farrar, Virginia	119	189 HAG	Michael Haglund, Tenn.	40
134 PKK	A. Pekker, Hungary	115	190 LEV	Arthur LeVeque, Calif.	40
135 MAG	Gideon Mark, Illinois	113	191 SKM	Michael Sakarias, Calif.	39
136 PTI	Noel Peattie, Calif.	113	192 BBA	Barry Beaman, Japan	37
137 DUD	David A. Dundee, N.Y.	111	193 DWM	Dennis Dawson, Indiana	37
138 SGG	C. Stagg, Maine	111	194 WLA	Alan Wilson, Canada	37
139 GBE	Bruce Gardner, Penn.	110	195 AJ	Joseph Anderer, Illinois	36
140 SKT	Peter Skottegard, Fla.	108	196 SHU	Ewald Schauer, Germany	36
141 STO	P.Michael Stone, Mo.	108	197 WBD	Donald weber, Ohio	36
142 MGR	Donald Magor, Florida	103	198 MCS	Miklos Mecs, Hungary	35
143 AR	S.R.Anderson, Va.	101	199 MUL	Thomas Mulligan, N.Y.	35
144 LND	Howard Landis, Georgia	99 PEP	200 CF	Frank Chapman, New York	34
145 DCK	R.Mark Dickson, Colo.	98	201 TAG	G. Taracsak, Hungary	34
146 HP	walter Hampton, Conn.	98	202 CRR	Robert Crumrine, N.Y.	33
147 KLP	Dennis Kolpanen, Calif.	96	203 ESS	Chris Essex, Canada	33
148 HU	walter Houston, Conn.	94	204 ARI	Robert Ariail, S.C.	32

205 DAW	Murray Daw, Florida	31		261 WST	Dwight west, Texas	11
206 VTK	Gunter Veit-Kohler, Ger.	31		262 AYT	Taro Akiyoshi, California	10
207 ERC	Carl Ericsson, Mass.	30		263 KOF	Ferenc Kovacs, Hungary	10
208 GRC	Andrew Granc, Australia	29		264 PTK	B. Patake, Hungary	10
209 BRV	Walter Breville, Mo.	28		265 RAD	Donald Ramthun, Wisconsin	10
210 MTM	Michael Mattei, Mass.	28		266 TUE	Edward Turco, Rhode Island	10
211 YON	Robert R. Young, Penn.	28		267 RQ	Charles L. Ricker, Michigan	9
212 SWT	Robert Stewart, N.J.	27		268 SWI	Michael Switters, Colorado	9
213 HLE	Martin Hale, New York	26		269 WMS	Dewey Williams, N.C.	9
214 KLJ	J. Keleman, Hungary	26		270 PSA	Stanley Palombo, D.C.	9
215 RHY	Hyman Roche, New York	26		271 BLZ	Karl S. Baltz, Texas	9
216 ROP	P.S. Rodrigues A., Brazil	26		272 ATW	Phillip Atwood, Conn.	9
217 BLI	M.S. Blair, Hawaii	25		273 KNG	Paul Kangieser, Arizona	8
218 CE	Claude Carpenter, Cal.	25	S 22	274 KOG	G. Kovacs, Hungary	8
219 FIS	Gary Fisher, Florida	25		275 SHW	William Sherman, Missouri	8
220 MLT	Tony Mallama, Ohio	25		276 SPN	A.P. Simpson, California	8
221 MAT	Michael Matson, Texas	25		277 WNZ	Jack Winzer, Canada	8
222 CLT	Tiziano Colombo, Italy	24		278 BRD	Ralph Braid, Illinois	7
223 KMB	Stephen Kimble, Alabama	24		279 BGS	Georgette Burgess, Maine	7
224 SZI	Miklos Szigetti, Hungary	24		280 HD	Donald Henning, Ohio	7
225 BSV	Sheila Bishop, Ohio	23		281 JAK	Andre R. Jakurski, Brazil	7
226 PAL	Robert Paul, Canada	21		282 KZY	Rita Keszthelyi, Hungary	7
227 PTO	Doyle Peterson, Idaho	21	PEP	283 MTA	Sandar Matta, Hungary	7
228 SLG	R. Schlesinger, N.Y.	21		284 MAY	Maben F. May, Texas	7
229 SH	H.E.M. Specht, Conn.	21		285 RMM	Michael L. Ramsey, Ohio	7
230 SZB	Andrea Szabo, Hungary	21		286 STC	G.E. Santacana, Puerto Rico	7
231 HAL	Ralph Hall, S.C.	20		287 BES	Edward Beshore, Nebraska	6
232 HLC	Chandler Holton, Me.	20		288 BJE	James E. Bowers, California	6
233 SZZ	Magda Szarazi, Hungary	20		289 HOR	Craig N. Horn, Connecticut	6
234 WOL	F.R. Wooldridge, Hawaii	20		290 NBY	John M. Norby, Minnesota	6
235 HIL	Ricky L. Hill, N.C.	18		291 SSL	Michael Seslar, Connecticut	6
236 ARS	Kamal Arsalan, Pakistan	17		292 TWN	Albert Townsend, Tennessee	6
237 TAK	Peter Takats, Canada	17		293 ANS	Mark Anson, Ohio	5
238 BZY	Tibor Barczy, Hungary	16		294 BYT	Jeff Bytof, California	5
239 TIT	Tunde Timafy, Hungary	16		295 FON	William Fontana, New York	5
240 WRK	Jerry Workman, Minn.	16	S 1	296 HLZ	Robert Holczl, Hungary	5
241 BRM	Ronald Bales, Oregon	15	S 3	297 KDP	P. Kerdo, Hungary	5
242 BGE	David J. Buegger, Calif.	15		298 LYR	Richard Lynch, Rhode Island	5
243 DOK	Kenneth Delano, Mass.	15		299 PES	David Pesec, Ohio	5
244 LVF	Frederick Levins, Ohio	15		300 PON	A. Ponori, Hungary	5
245 BSW	Stephen Bieda, Germany	14		301 TNV	Virgil Tangney, Wisconsin	5
246 DIA	Wairy Dias C., Brazil	14		302 GOM	Wilson Gomes deM., Brazil	4
247 ET	Tames Elter, Hungary	14		303 JSK	I. Jasko, Hungary	4
248 LAU	George Lauro, Mass.	14		304 KEZ	Istvan Kenez, Hungary	4
249 MEN	P.T. Menoher, Conn.	14		305 LPT	James La Prath, Montana	4
250 PTN	Erich Petersen, Mass.	14		306 SDA	Douglas Sharpe, Florida	4
251 SOG	G. Szolcsanyi, Hungary	14		307 SZN	P. Szenté, Hungary	4
252 FLI	J. Fleishhacker, Minn.	13		308 BND	Phillip R. Bernardi, N.J.	3
253 ORW	R. Wade Ortel, Vermont	13		309 BOL	John C. Boling, N.C.	3
254 BLY	Gregory Bailey, Canada	12		310 CTN	Danny B. Caton, Florida	3
255 BRI	David Brinton, Penn.	12		311 DHD	DeLorne Diedrich, Ohio	3
256 GYR	T. Gyurman, Hungary	12		312 ES	Victor Estremadoyro R., Peru	3
257 HRY	John P. Hrycak, Canada	12		313 KNC	Arpad Kancsura, Hungary	3
258 BRG	B.J. Bourgeois, Texas	11		314 PLR	Randall M. Poole, Penn.	3
259 MSP	Paulo Mourilhe S., Brazil	11		315 PFJ	Francis J. Price, New York	3
260 PAP	Judit Pap, Hungary	11		316 REL	David R. Reel, Washington	3

317 SNL	Jeff G. Sandel, S.C.	3	330 SHG	Anthony Schilling, New York	2
318 SVD	Vladimir Steblina, California	3	331 TUR	Josef Turak, Hungary	2
319 WIC	C.J. Wilherson, Kentucky	3	332 VAL	Leslie Vavra, Hungary	2
320 BLF	Lionel F. Brown, Indiana	2	333 BAZ	Alexander Balazs, Hungary	1
321 DAS	Steve Davis, Indiana	2	334 BSS	Dale Broussard, Louisiana	1
322 FIL	Keith Filby, Canada	2	335 CLI	Eric Clinton, Canada	1
323 KVF	Francois Kovacs, Hungary	2	336 DHG	George Diedrich, Ohio	1
324 MRA	Alexander Marta, Hungary	2	337 DOB	Mihaly Dobos, Hungary	1
325 MFL	Lucy McFadden, Massachusetts	2	338 GRF	Gary Griffin, Missouri	1
326 MSE	Ray Moses, Ohio	2	339 HRO	Roger Holger, Minnesota	1
327 OHA	William O'Hair, Ohio	2	340 MDN	Dennis Milon, Massachusetts	1
328 PEL	Robert N. Pelka, Illinois	2	341 WOF	Michael Woffenden, Mass.	1
329 RRT	Richard Rutan, Ohio	2			

GIFTS. First of all, I want to thank our Secretary, Clinton B. Ford whose lifelong interest in astronomy and in the AAVSO influenced his father, a retired Professor of Mathematics, to mention the AAVSO so generously in his will. Clinton, himself, has always been very generous with both money and time. His work in compiling and checking new charts is enabling us to add more variables, many of them badly neglected, to our program.

Leon Campbell, Jr. gave us a set of hard to get Cordoba Durchmusterung Charts beautifully printed on Mylar film. A complete set of 29 sheets, 22 x 29 inches. Also he gave us a set of Bonn Durchmusterung Charts, north and south, reprinted edition.

Howard and Evelyn Landis presented us with a large glass bell jar to cover the beautiful brass model of a reflecting telescope made for us by Ted Szybowicz in 1969.

PERSONNEL. Our thanks to Florence C. Bibber, our AAVSO Assistant, who continues on a part time basis, to be an invaluable help in the office and in Association affairs. We were very fortunate in the Spring to have Sally A. Haviland join our staff as a full time assistant.

Student assistants have been very helpful. Dennis Haworth of Northeastern University finished his 6-month cooperative work period in December. Marsha Vetter of Antioch College spent her 6-month cooperative work period with us from March into September. Harvard students Worldman Young Ha Kimm from Honolulu and Robert Reynolds from Alabama did part time work during the spring and summer. The Petersen brothers, Erich and Armin, came in again to work during vacations.

Massachusetts Institute of Technology work-Study Program students John Johl, Marcia Keyes and John Napier, and Harvard work-Study students Mark Seifert, Barry Spector and Stuart Zeiger worked for us during the 1970-71 college year. Stuart Zeiger became our champion key-puncher and stayed on in Cambridge to work full time during the summer.

It is due to the work of our excellent staff that we have been able to punch wo many observations on cards. A million cards are a lot of cards for a small group to handle.

I want particularly to thank Barbars Wether of the Smithsonian Astrophysical Observatory for her work in programming the reductions of our observations and in overcoming many of the problems that arose. We also thank Owen Gingerich for his help in arranging machine time for us, with the kind permission of Dr. Fred L. Whipple, Director of the Smithsonian Astrophysical Observatory.

To all the members and officers of the AAVSO, my very best thanks for their help and cooperation.

Respectfully submitted,

Margaret W. Mayall, Director