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ANNUAL REPORT OF THE DIRECTOR OF THE AAVSO
FOR THE YEAR ENDING SEPTEMBER 30, 1969

I am very happy to present herewith my 20th Annual Report as Director of the AAVSO for the year 1968-69. In hopes that it will not sound monotonous, I say once more that life with the AAVSO continues to be more interesting (and of course busier) each year. Most of our observers are very considerate and continue to send their observations in regularly, understanding that we cannot acknowledge each one. Please keep observations and letters coming, for we like to keep in touch with all of you.

Our IBM equipment was kept very busy, especially during school vacation and summer. Summer was particularly profitable, with four full time students helping us. We now have the cards punched and verified for the 700-day interval we have decided upon for our next AAVSO Report. Our last Report ended in October 1961, and this one will run on to September 1963. If we publish in the form of light curves, a 2 year interval will be much better than the 400 days we have previously used.

In spite of the reported ease of publishing from punch cards, there is still a great deal of hand work necessary. Many observers are careless with their reports, and use incorrect designations and names. A key punch operator punches the data as it appears on the report blank, which necessitates correcting many cards, unless we catch the errors before punching is done.

SPECIAL REQUESTS. Requests for specific information about the stars on our observing program continue to come in.

R CrB continues to be of top interest to observers with instruments of all types. John Gaustad at Lick Observatory had asked some time ago to be notified if we found any indication of another drop in brightness. Curtis Anderson sent a note the last of May 1969 that it seemed to be going down and I immediately alerted Dr. Gaustad. He is working with spectra from the OAO in the ultra-violet, and the visible spectrum and also notified the infrared people. He wrote me, "Tell Curtis Anderson he started a chain reaction that stretches over the entire spectrum". Tom Cragg noticed the beginning of the drop and got in touch with Dr. Greenstein at Mt. Wilson who photographed some very interesting spectra.

Dr. J.D. Fernie at David Dunlap Observatory asked for AAVSO curves of R CrB from 1966 to the present. Dr. Stein of the University of Minnesota asked for magnitudes of R CrB and R Aqr on certain dates when he had spectra in the far infrared.

Dr. Roberto Viotti, of the Laboratorio di Astrofisica in Frascati, Italy, asked for the light curve of AG Carinae following the one I did for Dr. Gratton and published in the J.R.A.S.C. 49, 5, 1955. It is such an interesting star I decided to bring it up-to-date and publish the complete curve in the August 1969 Journal.

Another request from Italy came from Dr. Rosino, director of the Observatory in Padova. He is publishing a paper on spectroscopic observations of RS Ophiuchi (a recurrent nova), at minimum and wrote that magnitude observations would be very important for the work.

Mrs. Reta Beebe of the Indiana University is working on theoretical models of S-stars and needed apparent visual magnitudes of R Cygni on certain dates.

Dr. Marianne Bretz of the Observatoire de Marseille, France, wanted information and identification charts of RU Lupi. We referred her to Mr. Bateson of the RASNZ.

Dr. Hugh Johnson of Lockheed Palo Alto Research Laboratory is making narrow-band photometric observations of X-ray sources and stars which in some ways are like them.

We had visual observations of 6 out of 8 he listed.

Terry Schmidt of Tersch Enterprises needed good magnitude estimates of Nova Del and Nova Vul for some slides he was releasing.

Henry Tye, a student of Dr. Neugebauer of California Institute of Technology needed visual magnitudes for a group of red stars he had been observing in the infrared.

Dr. K. Serkowski of the Mt. Stromlo and Siding Spring Observatories was preparing for publication a paper on changes in polarization of 2 RV Tauri-type stars: R Scuti and U Monocerotis. He said the large and spectacular changes may be correlated with changes in brightness. We had many observations of R Scuti and used it as a first star for a computerized light curve.

A graduate student at MIT asked for data on Mira to correlate with some infrared spectra taken in Arizona.

MEMBERSHIP. At our 1968 Annual Meeting we elected 1 new sustaining and 53 new annual members. At the Spring Meeting in Louisville we elected 55 new members and 2 annual members changed to sustaining (John Bortle and W.A. Wilson).

We regret to report the death of 6 of our members during the year: Richard Ash, Robert McGlenn, Ruth J. Northcott, Richard S. Perkin, James Pickering, and Donald Engelkemeir.

SUBSCRIPTIONS TO PUBLICATIONS. 35 Observatories and Scientific Libraries subscribe to our publications, and several others subscribe to certain things, such as Predictions, Reports and Solar Bulletins.

REQUESTS FOR INFORMATION. We received 740 requests for information during the year, from people of all ages. Many were from children wanting help on school projects, some hoping we would do the project for them! Others were from people with telescopes who were really interested in doing some serious observing. We were taken to task very severely by one young man of 13, who said we discriminated against young people, that he came from a scientific family and was just as capable of handling instruments and observing as older people. He bought some charts and his first 3 reports indicate that he will be a good observer.

LIBRARY. We continue to receive between 4 and 500 items for the Library each year. For years we have hoped to get out a catalogue so our members could make use of it. This summer we made a good start. Carolyn Hurless had volunteered to spend a week in Cambridge and help on some project in the office. She came in July and spent a full week hard at work each day listing the books on the shelves. From her lists she will make out cross reference cards and then we should be able to publish a catalogue of books. The publications we receive will be the next big step to catalogue.

PUBLICATIONS. Following the Annual Meeting, we published the Annual Reports of the Director, Treasurer, Endowment Fund, and other 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 32 (Predictions of Dates of Max and Min), Bulletins 32A and 32B graphical predictions for fainter than 13 and brighter than 12, prepared by Clinton Ford and John Bortle respectively. Two AAVSO Abstracts, papers presented at Fall and Spring meetings; 2 Book Reviews, and 3 numbers of the News Notes by Carolyn Hurless, were published.

A list of observers with their totals for each month is published in each issue of the JRASC. Review of Popular Astronomy has had to discontinue the list of observers be-

cause of space problems, but both magazines continue to publish a short article or a light curve of an interesting variable in each issue.

Casper Hossfield publishes the Solar Bulletin each month, which contains notes of interest on Solar activities and especially on solar flares.

Sky & Telescope publishes the daily sunspot numbers for each month as well as a list of long period variables which reach maxima of at least 8th magnitude.

The eclipsing binary and RR Lyrae committees send frequent bulletins to their observers, and monthly predictions of times of minima.

Special predictions of times of minima of Algol and dates of maxima of a selected list of long period and other bright variables were printed in the Handbook of the RASC, and other predictions are done for C.L. Johnson for his Celestial Calendar & Handbook.

ANNUAL SUMMARY OF OBSERVATIONS. We received a total of 1485 reports during the year, from 293 observers, containing 119,659 observations. This was an average of about 124 reports per month. Our overall total of observations is now 2,795,401. This means we have about 205,000 observations to go to reach our 3 million, which should be some time in 1971. Observers traditionally complain about the weather, but this year their complaints were valid and the east coast of the U.S. especially, was clouded out a good percentage of the nights.

The fact that we had no exciting new Nova to watch accounted for much of the drop in observations from last year. Monthly reports were received from 36 observers, 17 missed 1 month and 9 sent 10 reports. The numbers increased from there, and 77 sent 1 report each. Of these, about 20 were new members sending in their first reports near the end of the year.

Table I lists the countries with the number of observers and observations from each. Table II gives a breakdown of the U.S.A. by states.

Table III lists all observers in the year 1968-69 in order of their year's totals. We give the code initial for each observer, and his total number of observations, followed by S and a number, if he made any Inner Sanctum observations (fainter than 14), or PEP if the observations were photoelectric. Forty-one observers made 6,214 Inner Sanctum observations, and 2 used photoelectric equipment for some or all of their observations.

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	13,218	Japan	3	688
Australia	4	1,921	Mexico	1	31
Belgium	1	191	Norway	1	49
Brazil	5	100	E. Pakistan	1	6
Canada	13	2,618	South Africa	1	3,855
Chile	2	874	Switzerland	4	2,002
France	1	230	U.K.	19	4,996
Greece	1	20	West Germany	5	2,543
Hungary	3	979	U.S.A.	<u>226</u>	<u>85,338</u>
			Total	293	119,659

TABLE II - UNITED STATES

Alabama	1	227	Maryland	5	616	Oregon	1	544
Arizona	3	199	Massachusetts	15	1,210	Pennsylvania	11	1,913
California	26	8,234	Michigan	7	1,778	Puerto Rico	1	9
Colorado	2	100	Minnesota	4	4,711	Rhode Island	2	100
Connecticut	11	4,207	Missouri	5	2,770	South Carolina	1	27
Delaware	1	96	Montana	3	5,272	Tennessee	1	7
Florida	19	8,960	New Hampshire	2	769	Texas	7	292
Georgia	3	1,220	New Jersey	8	281	Vermont	2	83
Idaho	1	52	New Mexico	2	567	Virginia	4	6,050
Illinois	7	1,380	New York	28	18,554	Washington	3	86
Indiana	2	29	North Carolina	1	1,381	West Virginia	1	99
Louisiana	1	7	Ohio	27	12,223	Wisconsin	6	1,262
Maine	1	18	Oklahoma	1	5	Total	226	85,338

TABLE III - AAVSO OBSERVERS
1968 - 1969

1 VAM Mario Vattuone, Arg	12,207	38 BQ Lewiss Bartha, Hungary	638
2 BRJ John E. Bortle, N.Y.	8,741 S	39 SCE Chas. Scovil, Conn	569 S 203
3 HE Lancaster Hielt, Va	5,729	40 GRN Jerome Green, Fla	563
4 CR Thomas Cragg, Calif	4,697 S 747	41 MTV V. Matchett, Australia	561
5 BM Marvin Baldwin, Mont	4,435	42 ILS John E. Isles, U.K.	559
6 AC Curtis Anderson, Minn	4,373 S 204	43 RNR Lynn Raynor, N.H.	553 S 2
7 HR Carolyn Hurless, Ohio	4,234 S 1459	44 MJR Jerald Mishler, Ore	544
8 LX Wayne Lowder, NY	3,915 S 17	45 RB D.W. Rosebrugh, Florida	514
9 DK R.P. deKock, S.Afr	3,855	46 HK Ed. A. Halbach, Wisc	474 S 29
10 SKL Karl Simmons, Fla	3,828	47 NLT Richard Nolthenius, Calif	459
11 FD Clinton Ford, Conn	3,027 S 641	48 MF F. Montague, Mass	441 S 10
12 AD Robert Adams, Mo	2,514 S 578	49 JT R.B. Johnston, Canada	432
13 P Leslie Peltier, Ohio	2,323 S 1518	50 MSL T.J.C.A. Moseley, U.K.	429
14 OV Edward Oravec, NY	2,232	51 NBY John Nordby, Wisc	428 S 20
15 LK Kurt Locher, Switzerl.	1,880 S 5	52 HAE Ernie Hatai, Calif	421
16 LKS Rainer Lukas, W.Ger	1,751	53 FT G.L. Fortier, Canada	410
17 SWR Richard Sweetsir, Fla	1,680	54 KHJ Herbert Koller, Canada	400
18 HZL Lawrence Hazel, NY	1,595 S 24	55 WAT Akira Watanabe, Japan	381
19 KOJ O.J. Knox, U.K.	1,552 S 9	56 ODA Donald Ortwein, N.Y.	353
20 BJ James Banks, N.C.	1,381	57 HEE Erwin Heiser, W.Germany	345
21 MOR Robert Monske, Pa	1,299 S 98	58 GSR Ralph Geschwind, Ohio	338
22 FE Cyrus Fernald, Me; Fla	1,295	59 FRW Walter Farrar, N.M.	337
23 TJ James Thomas, Ohio	1,236 S 235	60 ZT Ray Zit, Wisconsin	337 S 25
24 GAY Mark Gaydos, Ohio	1,199 S 22	61 PAN R.W. Payne, U.K.	329
25 JMV M.V. Jones, Australia	1,131	62 SZY T. Szybowicz, Mich	328
26 PO Eugene Powell, Ga	1,130	63 TOT Tibor Torma, Hungary	324
27 BMA M.A.E. Barone, Arg	1,011	64 HY Allen S. Heasley, Ohio	314 S 1
28 MLM Martin P. Miller, Cal	937	65 BUW Russ Buhrow, Minn	313 S 3
29 BLN Thomas Balonek, NY	874	66 LGH Herbert Lange, Canada	313
30 BBA Barry Beaman, Calif	869 S 7	67 CK Stephen Cook, Calif	312
31 MJ Allen Montague, Ill	844	68 MYR Ernst Mayer, Ohio	305 S 31
32 MOP Patrick Moore, U.K.	841	69 TPR R.R. Thompson, Canada	299
33 LS Diane Lucas, Ohio	831 S 136	70 FS D. Florkowski, Mich	238
34 SB R.F. Swanberg, Mont	809 S 103	71 MCE E. Mochizuki, Japan	231
35 DVR R. de la Vega L., Chile	787	72 COK Ryan D. Cook, N.M.	230
36 CTB Brian Carter, U.K.	750 S 13	73 OF A. Oberstatter, France	230 S 6
37 LNS Ivars Lenss, Mich	670	74 SKR Eric Simpkins, N.Y.	229

75 PHJ John Phillips, Ala	227	131 RNT Charles Reinhart, Ohio	84
76 KRK Kevin Krisciunas, Ill	226	132 KS Jeremy Knowles, Mich	83
77 AJR J. Robert Andress, Ohio	219	133 GJT John T. Goodwin, Mass	82
78 AK Carl Anderson, N.H.	216 S 3	134 HOH Hideo Honda, Japan	76
79 MRR Charles Morris, Mich	212	135 BSV Sheila Bishop, Conn	75
80 HNG Gregory Henry, Ohio	210 S 1	136 RW G.O. Rawstron, U.K.	75
81 KRJ John Korintus, Maryland	208	137 AND Mark Anderson, Texas	72
82 MGR Donald Magor, Florida	208	138 PTA H. Allen Peterson, Calif	71
83 WRW William Werner, Ohio	207	139 SAW D.R.B. Saw, U.K.	70
84 SRC R.C. Shinkfield, Australia	206	140 BRD Ralph Braid, Illinois	68
85 DKF M. Durkefalden, W. Germany	203	141 KAN Kevin Kane, Ohio	68
86 MRX Harold Marx, W. Germany	194	142 PR Robert Provin, Calif	68
87 SHA Horace Smith, Conn	192	143 YRK David York, Mass	68
88 TAK Peter Takats, Canada	192	144 GJ Jim Goehring, Calif	67
89 DMT Th. de Menten, Belgium	191	145 RHY Hyman Roche, N.Y.	66
90 DBK Alfred Dobkowski, NY	189	146 HUB Russell Hubbard, Wash	65
91 SZR Roger Saladzius, Canada	180	147 MM Francis P. Morgan, Canada	65
92 GLG George W. Gliba, Ohio	175	148 DRG Roger Diethelm, Switzerland	64
93 PTN Erich Petersen, Mass	172	149 HU Walter Houston, Conn	64 S 1
94 EL James Ellerbe, N.J.	168	150 JSW Stuart W. John, Florida	64
95 HTD Donald J. Hutter, Pa	167 S 1	151 WLT Alan Wellington, Mass	62
96 SSL Michael Seslar, Fla	167	152 MSY Philip Massey, Florida	61
97 BRB Barry Brown, Pa	165	153 LAN Vaughan Landless, U.K.	60
98 CKE K.E. Chilton, Canada	165	154 BLR Ron Blixt, Calif	58
99 PN A.E. Pearlmutter, Mass	164	155 LYR Richard F. Lynch, R.I.	54
100 DAL David Dalegowski, Az	159 S 1	156 ORW R. Wade Ortel, Vermont	54
101 BRK James Brooks, Va	158	157 WBD Donald F. Weber, Ohio	54
102 MAG Gideon Mark, Illinois	157	158 KAR Wayne Karberg, Ohio	53
103 FLS Robert Felson, Md	153	159 HTS Stephen Hart, N.J.	52
104 SLB Bruce F. Small, Fla	152	160 KNZ Robert C. Krenz, Idaho	52
105 RRB Robert Raphael, Md	151	161 HST Robert Hastings, Pa	50
106 DAW Murray Daw, Fla	149	162 KIS Gunther Krisch, W. Germany	50
107 SSA Albert Sharpless, Fla	147	163 RND Donald Rosenfield, Brazil	49 S 3
108 RDA Nancy Rodda, Pa	145	164 SIS Svein Sivertsen, Norway	49
109 HP Walter Hampton, Conn	140	165 TUE Edward Turco, R.I.	46
110 FZR Craig Fraser, Canada	138	166 SRH Harrison Sarrafian, Calif	45
111 NN Rodney Norden, Va	138	167 VOS E.J. Voss, U.K.	45
112 MLT Tony Mallama, Ohio	131	168 COB Ben Conner, Illinois	44
113 HEN Colin Henshaw, U.K.	130	169 WLL Hoy J. Walls, Texas	44
114 CCR Harry F. Cochran, Texas	128	170 CE Claude Carpenter, Calif	42 S 37
115 ROG Gary M. Ross, Michigan	126	171 PTI Noel Peattie, California	42
116 DOK Kenneth Delano, Mass	123	172 MAA Russell C. Maag, Missouri	41
117 RQ Charles Ricker, Mich	121 S 6	173 WIN G. Winstanley, U.K.	41
118 ATW Philip Atwood, Conn	105	174 BGM Mitchell Begelman, N.Y.	40
119 GHL Harold Gaughran, NY	105	175 EG George East, Mass	38
120 FLR Dale Fuller, Md	103	176 DHG George Diedrich, Ohio	37
121 BKG Glenn Birkhimer, W. Va	99	177 MRD James Muirden, U.K.	37
122 CNG Michael Cunningham, Mo	99	178 MU A. Thomas Murphy, Calif	35
123 RDJ Jeannine Roediger, Ohio	97	179 RUS E. Reusser, Switzerland	35
124 SLK J.K. Saulsbury, Del	96	180 AJ Joseph Anderer, Illinois	34
125 WU M. Wunderlich, Colo	96 S 5	181 KNG Paul Kangieser, Arizona	34
126 FR E.E. Friton, Mo	92 S 1	182 LVF Frederick Levins, Ohio	34
127 REZ E.Z. Randall, Fla	92	183 NRW D.J. Northwood, U.K.	33
128 CLY Stephen Clancy, NY	88	184 TB Domingo Taboada R., Mexico	31 S 1
129 DVO O.A. de la Vega O., Chile	87	185 MSS Stephen Mesics, Pa	30
130 LND Howard J. Landis, Ga	86 PEP	186 BCJ Carol J. Beaman, Calif	29

187 BRG Benjamin Bourgeois, Tx	29	241 HAG Michael Haglund, Tenn	7
188 HDG Richard Hodgson, Vermont	29	242 MA Margaret Mayall, Mass	7
189 KPP Pat Knupp, Montana	28	243 RYN Terence Ryan, N.J.	7
190 KLP Dennis Kolpanen, N.J.	28	244 SH H.E.M. Specht, Conn	7
191 HAL Ralph Hall, S.C.	27	245 SVN Paul Svenek, Illinois	7
192 TLR Robert Talaga, Indiana	26	246 ARS Kamal Arsalan, E. Pakistan	6
193 AR Sterling Anderson, Va	25	247 CLS Stephen Clausing, Mass	6
194 HTN Katherine Hutton, Pa	25	248 EDR Harrold Edris, Florida	6
195 ONL Richard O'Neill, Missouri	24	249 GBS James Gibson, Arizona	6
196 GYL Thomas Gaylord, Minn	23	250 LTL James Little, Calif	6
197 GRC Andrew Granc, Australia	23	251 MAT Michael Matson, Texas	6
198 RVJ Jim Riviere, Mass	23	252 PLM Kenneth Perlman, N.Y.	6
199 SHL E. Schaltegger, Switz	23	253 PFJ Francis Price, N.Y.	6
200 CWI G. Cowie, U.K.	22	254 CRY James D. Currie, Ohio	5
201 MSP P. Mourilhe S., Brazil	21	255 EO O.M. Erpenstein, Calif	5
202 BWA Andrew Brown, Mass	20	256 HTI Ida Horton, Oklahoma	5
203 ELD D.P. Elias, Greece	20	257 LRT S.R. Larter, U.K.	5
204 SV Vicki Schmitz, Ohio	20 S 2	258 LIM Roy A. Lima, Fla	5
205 DLT John Dalton, Conn	19	259 MNO William K. Monroe, Calif	5
206 WLA Alan Wilson, Canada	19	260 RGR Randy Rogers, Texas	5
207 ASH Steven Ash, N.Y.	18	261 THJ John Thomas, U.K.	5
208 SVD Vladimir Steblina, Calif	18	262 CF Frank Chapman, N.Y.	4
209 TV O.C. Tavares, Brazil	18	263 FLM Richard Fleming, Colo	4
210 VNY Douglas Varney, Maine	18	264 GUZ Leonard Guzenski, N.J.	4
211 SJL Jack Strater, Ohio	17	265 HLC Chandler Holton, Ga	4
212 SZV Peter Szilvay, Hungary	17	266 LBG Gilbert Lubcke, Wisc	4
213 TM Howard Thomas, Wash	17	267 MTY Stephen Matyi, Ohio	4
214 UL Albert Ullmann, N.Y.	17	268 MIL Jeff Miller, Calif	4
215 GLW William Glenn, N.Y.	16	269 RAD Donald Ramthun, Wisc	4
216 MDT Donald Murray, Pa	16	270 SL Robert Sealy, Washington	4
217 CSA Allen Casper, Wisc	15	271 YON Robert R. Young, Pa	4
218 LI Donald Livingston, NY	15	272 CDE John B. Calder, Canada	3
219 BLK Henry Blake, N.Y.	14	273 HTM Frank Heitmann, Ohio	3
220 DHD DeLorne Diedrich, Ohio	14	274 JNT Tim Johnson, Calif	3
221 FRC Martin French, U.K.	12	275 SSN Kenneth Slosson, Indiana	3
222 CRM M.R. Correa de M., Brazil	11	276 TRW Roger Tuthill, N.J.	3 S 1
223 KTY Terry Kesler, Ohio	11	277 WLS Gary Wilson, Calif	3
224 LNB George Lindbloom, Pa	11	278 JCC Luigi Jacchia, Mass	2
225 MZL Keith Marzullo, Calif	10	279 RDD Nicholas Redding, Canada	2
226 MSN John Mason, Calif	10	280 RGG George Ripley, Minn	2
227 SRP John Sharp, N.J.	10	281 WAD Tom E. Wade, Florida	2
228 TYW Walter Tyre, Florida	10	282 WS Karl A. Wells, N.Y.	2
229 AWC Chas. Aronowitz, N.J.	9	283 WLM Thomas Williams, Conn	2
230 BGG Robert Boggess, Fla	9	284 DS J.M.L. da Silva, Brazil	1
231 BJE James E. Bowers, Calif	9	285 GOU Graham Gough, U.K.	1
232 GLF Florence Glenn, N.Y.	9	286 LFA Alvin Liff, N.Y.	1
233 KRR Roberto Kringel, P.R.	9	287 MTM Michael Mattei, Mass	1 PEP
234 MRT Tom Morris, Calif	9	288 MLL Jay H. Miller, Maryland	1
235 PGT Richard Piggott, N.Y.	8	289 PRC Carole Price, N.Y.	1
236 TDS Edward Tedesco, N.Y.	8	290 RZ John J. Ruiz, Pa	1
237 WJW J. Wayne Wooten, Fla	8	291 TMX Alexis Tomlinson, N.Y.	1
238 YNG Albert Young, Texas	8	292 TMG Gerald Tomlinson, N.Y.	1
239 BEV Edwin Bishop, Conn.	7	293 ZRB Joseph Zarba, Mass	1
240 BRS Richard Bordelon, La	7		

PERSONNEL. Our AAVSO Assistant, Mrs. Florence C. Bibber, continues to be our mainstay in headquarters office. We were delighted to have our student help back with us for vacations. During Christmas holidays both Christine Krupp and Erich Petersen came in. In the summer we had Erich, Christine and her younger sister Charlotte, and Jim Riviere. Jim, a high school student in New Bedford, was taking a summer school course in Programming at Boston College and spent the rest of the day working for us. Erich and Jim had their 16th birthdays and are now members of the AAVSO. Another member, Robert Reynolds, a Harvard student, drops in the office when he has a few free hours, with the welcome question, "May I do something to help you?" Carolyn Hurless spent a week cataloging our library books and helped get out our big mailing in July. Both John and Thomas Bibber stop in and do all sorts of odd chores for us. John has always felt our windows were his responsibility, so while home on leave from the Army he came in and made them shine again. And as always, Newton Mayall is on call for anything, from chart making to repair work, consultation, and trimming blueprints. To them and all officers and members of the AAVSO, I give my most sincere thanks.

Respectfully submitted,

Margaret W. Mayall, Director