

THE NOVAC CORONA

to observe and to
help others observe

1986-Halley's Comet and

Another New Year



THE NOVAC QUARTERLY NEWSLETTER

Issue No. 7

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January 1986

President, Nils Thomas 323-7476

Treasurer, John Huggins 644-4331

Secretary, Blaine Korcel 256-4430

EDITOR

256-4610

FROM THE PRESIDENT'S DESK

Thomas

At the last meeting (in October) we voted on the procedures for ratifying a constitution. The deadline for submission was November 30. None were submitted except mine. I have not received one from Dennis Boyce, as he had planned per our discussion at the last meeting. All copies were to be sent to the club members by December 15. In this endeavor we failed. As the only submission was my revised constitution, we are enclosing it with the newsletter. My version was revised to remove a few typographical errors that were not corrected the first time. The schedule for ratification will remain the same as that voted on at the October meeting. This means at the January meeting we will have open discussion and will pass out ballots. Ballots will be due by February 28. Let's have some participation.

Finally, we will be having our final public Halley observing session on January 10, 11, and 12 at Braddock Park, weather permitting. Please plan to attend at least one night if possible. I would appreciate a phone call to myself, the Secretary, or the NOVAC answering machine, letting us know which night you can come. Since the Board of Supervisors and the Park Authority are sponsoring this one let's have a good turn out with telescopes.

Congratulations to Blaine Korcel on his fine Halley photographs. Hopefully the members will see them sometime soon.

A belated Merry Christmas and a Happy New Year to all our members.

EDITORIAL

Korcel

Last month's Public Halley Watch was a great success except for a few parking problems. Over 1000 people showed up to view the comet that night and, fortunately, it was astoundingly clear. The slide show was cancelled due to insufficient seating capacity but, overall, most people were just satisfied to see Halley's Comet "in person."

As you will read shortly, the club is having another Public Halley Watch this month. It is essential that each club member participate in this event. We need telescopes out there in case we have another 1000 people show up this time. Call the info number to keep up on the event. We hope to see you out there.

AT THE LAST MEETING

Korcel

At the last meeting we decided to purchase the much needed envelopes to complete the club's stationary. These are the ones that you received your newsletter in. By the way, if you're not sure of your financial status with the club, look on your address label before you pitch the envelope and next to your name will appear a date code. This date is when your membership expires. If there are any questions, call the Treasurer. Those who have not paid up, get deleted from the membership.

Our dues are now officially due EVERY January and will be \$10.00. Those who still owe from last July, ahem!!!, will need to pay \$15.00 to bring their accounts up to date. Please take care of these obligations as soon as possible.

We decided to buy our club books through a book club rather than direct from the publisher. This will save us a little money.

The highlight of the meeting was a lecture by the well known astrophotographer Joseph Macrie. He spoke about piggyback and prime focus photography of Halley's Comet and the importance of polar alignment (see the last issue for the method). He also talked about guiding and the various methods used. Film was also a topic of high interest. He told what exposures to try with what films and made demonstrations on his C-8. We hope he will return and give a follow up lecture on his results of photographing Comet H and what to try in March and April.

WHAT FILM SHOULD I USE FOR COMET HALLEY?

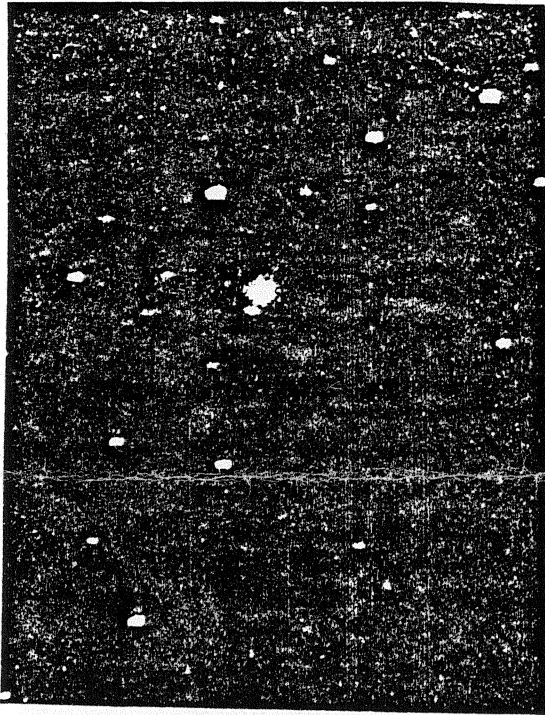
Korcel

Well folks the statistics are in. Several successful astrophotos of Halley's Comet are in. Unfortunately, not even the high quality copiers, used to produce this newsletter, could copy them well. However, the results reproduced here fairly well. For those who want to try it on their own, here are a few starting exposures for experimentation.

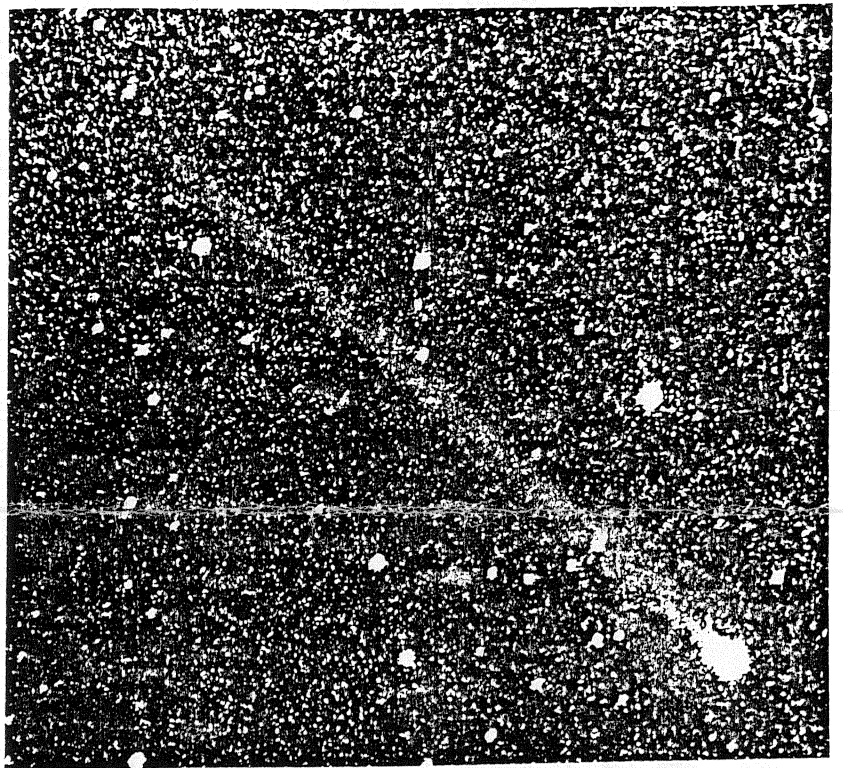
film	type	exposure	f/ratio	lens
VR1000	color neg	15 min	4.5	205mm telephoto
2415 tech	B/W neg	18 min	6.0	1219mm 8" newtonian
2415 tech	hyped neg	10 min	3.8	210mm telephoto
fuji 100	hyped slide	20 min	6.0	1219mm 8" newtonian
Ilf HP5	B/W neg	20 min	4.5	205mm telephoto

These exposures have yielded excellent results with my system. However, each person's system will yield different results so try these and then add extra time to the exposure. Some of the films that I used have shown interesting effects. The VR1000 had shown excessive blue as predicted. M-45 makes an interesting image on this film. The nebulosity associated with M-45 is indeed blue. Try about 10 minutes at f/4.5 and increase your exposure for slower lenses. VR1000 has a high reciprocity failure. In other words, it

begins to poop out after about 10 minutes and does not gain much more exposure. So if you use lenses slower than $f/4.5$, you may have to expose anywhere from 2 to 5 times as long in order to get the same image as I did. If this film is cooled to -40 degrees, it's the same in celsius or fahrenheit, or hypersensitized, it will continue to build up an exposure and reach sky fog limits in the darkest skies in about 20 minutes. Just remember it is blue sensitive and might not perform well on something rich in hydrogen alpha like the rosetta nebula. I haven't tried it yet so give it a shot anyway. The 2415 tech pan film must be hypersensitized or at least cooled in a cold camera. It is much too slow otherwise and will not record faint details on extended objects. This film has a clear base and yields higher contrast and resolution than any other b/w or color film currently available. Its slow speed makes it great for lunar or planetary photography and when treated, becomes one of the fastest films available to the astrophotographer. When the comet was photographed with hypered 2415, It recorded more of a tail than any of the others in less time, mainly due to its speed. It also rejects background light better than most films so fainter detail will become more evident. The Ilford HP5 produced good results with only 5 minutes exposure. The rated ISO, previously known as ASA, is 400 but I push processed it to 1600. Ektachrome 400 hypersensitized is in my camera now. Maybe my results of this film will be available for viewing at this month's meeting.



Taken 12-9-85
VR1000 for 15 minutes at $f/4.5$



Taken 12-30-85
Ilford HP5 for 20 minutes at $f/4.5$

HALLEY'S COMET AGAIN!

Korcel

To keep up in the interest of Halley's Comet, I have here more ephemeris data for the period beginning February 9 through May 19, 1986. See the last few issues for preceding ephemerides. If any one has slides of CometH, please bring them to the meeting this month. A slide projector will be made available. We would all like to see them.

YR	MN	DY	HR	J.D.	R.A. (1950)	DEC.	R.A.	APPN	DEC.	DELTA	DELDOT	R	RDOT	TMAG	NMAG	THETA	BETA	MOON
1986	2	9	.0	2446470.5	21 1.872	-10 25.80	21 3.794	-10 17.39	1.55	-9.24	.59	-6.65	4.1 13.9	7.7	13.1	11		
1986	2	10	.0	2446471.5	21 .028	-10 40.75	21 1.954	-10 32.42	1.54	-10.99	.59	.79	4.1 13.9	8.6	14.6	20		
1986	2	11	.0	2446472.5	20 58.188	-10 55.97	21 .118	-10 47.71	1.54	-12.72	.59	2.22	4.1 13.9	9.7	16.4	32		
1986	2	12	.0	2446473.5	20 56.354	-11 11.46	20 58.288	-11 3.26	1.53	-14.43	.59	3.64	4.1 13.9	10.9	18.4	45		
1986	2	13	.0	2446474.5	20 54.528	-11 27.20	20 56.466	-11 19.07	1.52	-16.12	.59	5.04	4.1 13.9	12.1	20.5	58		
1986	2	14	.0	2446475.5	20 52.711	-11 43.21	20 54.652	-11 35.15	1.51	-17.77	.60	6.41	4.1 13.9	13.4	22.6	70		
1986	2	15	.0	2446476.5	20 50.904	-11 59.47	20 52.849	-11 51.44	1.50	-19.38	.60	7.75	4.1 13.9	14.7	24.8	83		
1986	2	16	.0	2446477.5	20 49.107	-12 16.00	20 51.056	-12 8.08	1.49	-20.95	.60	9.05	4.1 13.9	16.1	26.9	95		
1986	2	17	.0	2446478.5	20 47.322	-12 32.80	20 49.275	-12 24.94	1.48	-22.46	.61	10.30	4.1 13.9	17.5	29.1	107		
1986	2	18	.0	2446479.5	20 45.548	-12 49.86	20 47.506	-12 42.08	1.46	-23.93	.62	11.51	4.2 13.9	18.9	31.2	119		
1986	2	19	.0	2446480.5	20 43.786	-13 7.21	20 45.748	-12 59.49	1.45	-25.35	.62	12.66	4.2 13.9	20.3	33.3	132		
1986	2	20	.0	2446481.5	20 42.035	-13 24.83	20 44.002	-13 17.18	1.43	-26.70	.63	13.75	4.2 13.9	21.7	35.4	144		
1986	2	21	.0	2446482.5	20 40.294	-13 42.76	20 42.266	-13 35.17	1.42	-28.01	.64	14.79	4.2 13.9	23.1	37.4	156		
1986	2	22	.0	2446483.5	20 38.562	-14 .99	20 40.539	-13 53.48	1.40	-29.25	.65	15.78	4.2 13.9	24.6	39.4	167		
1986	2	23	.0	2446484.5	20 36.838	-14 19.35	20 38.819	-14 12.10	1.38	-30.44	.66	16.70	4.2 13.9	26.0	41.3	169		
1986	2	24	.0	2446485.5	20 35.119	-14 38.46	20 37.106	-14 31.08	1.37	-31.57	.67	17.57	4.2 13.9	27.4	43.1	159		
1986	2	25	.0	2446486.5	20 33.404	-14 57.73	20 35.396	-14 50.42	1.35	-32.65	.68	18.38	4.3 13.9	28.9	44.9	146		
1986	2	26	.0	2446487.5	20 31.690	-15 17.40	20 33.687	-15 10.16	1.33	-33.67	.69	19.14	4.3 13.9	30.3	46.6	132		
1986	2	27	.0	2446488.5	20 29.974	-15 37.49	20 31.976	-15 30.32	1.31	-34.64	.70	19.85	4.3 13.9	31.8	48.2	118		
1986	2	28	.0	2446489.5	20 28.252	-15 58.03	20 30.259	-15 50.93	1.29	-35.56	.71	20.50	4.4 13.9	33.3	49.8	103		
1986	3	1	.0	2446490.5	20 26.520	-16 19.06	20 28.534	-16 12.03	1.27	-36.42	.72	21.11	4.4 13.9	34.7	51.3	88		
1986	3	2	.0	2446491.5	20 24.775	-16 40.63	20 26.794	-16 33.67	1.25	-37.24	.74	21.67	4.4 13.9	36.2	52.7	74		
1986	3	3	.0	2446492.5	20 23.012	-17 2.76	20 25.037	-16 55.87	1.22	-38.01	.75	22.19	4.4 13.9	37.7	54.1	59		
1986	3	4	.0	2446493.5	20 21.225	-17 25.52	20 23.257	-17 18.70	1.20	-38.73	.76	22.66	4.4 13.9	39.2	55.3	45		
1986	3	5	.0	2446494.5	20 19.408	-17 48.95	20 21.447	-17 42.21	1.18	-39.40	.77	23.10	4.4 13.9	40.7	56.6	31		
1986	3	6	.0	2446495.5	20 17.556	-18 13.12	20 19.602	-18 6.45	1.16	-40.03	.79	23.50	4.5 13.9	42.2	57.7	17		
1986	3	7	.0	2446496.5	20 15.662	-18 38.04	20 17.714	-18 31.49	1.13	-40.62	.80	23.87	4.5 13.9	43.7	58.8	6		
1986	3	8	.0	2446497.5	20 13.717	-19 3.90	20 15.777	-19 57.40	1.11	-41.16	.82	24.20	4.5 13.9	45.3	59.4	13		
1986	3	9	.0	2446498.5	20 11.713	-19 30.66	20 13.781	-19 24.25	1.09	-41.65	.83	24.51	4.5 13.9	46.8	60.7	27		
1986	3	10	.0	2446499.5	20 9.642	-19 58.45	20 11.718	-19 52.12	1.06	-42.10	.84	24.79	4.5 13.9	48.4	61.6	46		
1986	3	11	.0	2446500.5	20 7.493	-20 27.34	20 9.578	-20 21.10	1.04	-42.51	.86	25.04	4.5 13.9	50.0	62.4	64		
1986	3	12	.0	2446501.5	20 5.255	-20 57.44	20 7.348	-20 51.30	1.01	-42.87	.87	25.27	4.5 13.8	51.6	63.1	87		
1986	3	13	.0	2446502.5	20 2.916	-21 28.84	20 5.018	-21 22.80	.99	-43.18	.89	25.47	4.5 13.8	53.2	63.8	80		
1986	3	14	.0	2446503.5	20 .461	-21 6.70	20 2.573	-21 55.74	.96	-43.44	.90	25.66	4.5 13.8	54.9	64.3	93		
1986	3	15	.0	2446504.5	20 -2.775	-22 36.05	19 59.997	-22 30.23	.94	-43.65	.92	25.83	4.5 13.8	56.6	64.8	105		
1986	3	16	.0	2446505.5	20 -5.140	-23 12.10	19 57.274	-23 6.40	.91	-43.81	.93	25.98	4.5 13.7	58.4	65.3	118		
1986	3	17	.0	2446506.5	20 -7.237	-23 49.97	19 54.384	-23 44.40	.89	-43.92	.95	26.11	4.5 13.7	60.1	65.6	131		
1986	3	18	.0	2446507.5	20 -9.144	-24 29.81	19 51.303	-24 24.34	.86	-43.97	.96	26.23	4.5 13.7	62.0	65.9	143		
1986	3	19	.0	2446508.5	20 -10.836	-25 11.79	19 48.069	-25 6.50	.84	-43.95	.98	26.33	4.5 13.7	63.8	66.1	156		
1986	3	20	.0	2446509.5	20 -12.282	-25 56.08	19 44.470	-25 50.96	.81	-43.87	.99	26.42	4.5 13.6	65.8	66.1	169		
1986	3	21	.0	2446510.5	20 -13.451	-26 42.86	19 40.655	-26 37.92	.79	-43.71	1.01	26.50	4.4 13.6	67.8	66.1	176		
1986	3	22	.0	2446511.5	20 -14.305	-27 32.33	19 36.526	-27 27.58	.76	-43.47	1.02	26.57	4.4 13.6	69.8	66.0	163		
1986	3	23	.0	2446512.5	20 -14.998	-28 24.68	19 32.038	-28 20.14	.73	-43.14	1.04	26.63	4.4 13.5	71.9	65.8	149		
1986	3	24	.0	2446513.5	20 -15.482	-29 20.11	19 27.142	-29 15.80	.71	-42.72	1.05	26.68	4.4 13.5	74.1	65.5	134		
1986	3	25	.0	2446514.5	20 -15.795	-30 18.79	19 21.777	-30 14.74	.69	-42.18	1.07	26.72	4.3 13.4	76.5	65.0	119		
1986	3	26	.0	2446515.5	20 -15.931	-31 20.90	19 15.876	-31 17.14	.66	-41.52	1.09	26.75	4.3 13.4	78.9	64.4	103		
1986	3	27	.0	2446516.5	20 -15.887	-32 26.57	19 9.599	-32 23.12	.64	-40.73	1.10	26.77	4.3 13.3	81.4	63.7	87		
1986	3	28	.0	2446517.5	20 -15.574	-33 35.86	19 2.133	-33 32.77	.61	-39.78	1.12	26.79	4.2 13.3	84.0	62.8	71		
1986	3	29	.0	2446518.5	20 -15.000	-34 48.75	18 54.089	-34 46.06	.59	-38.66	1.13	26.80	4.2 13.2	86.8	61.8	55		
1986	3	30	.0	2446519.5	20 -14.261	-36 5.09	18 45.102	-36 2.85	.57	-37.33	1.15	26.81	4.2 13.2	89.7	60.5	39		

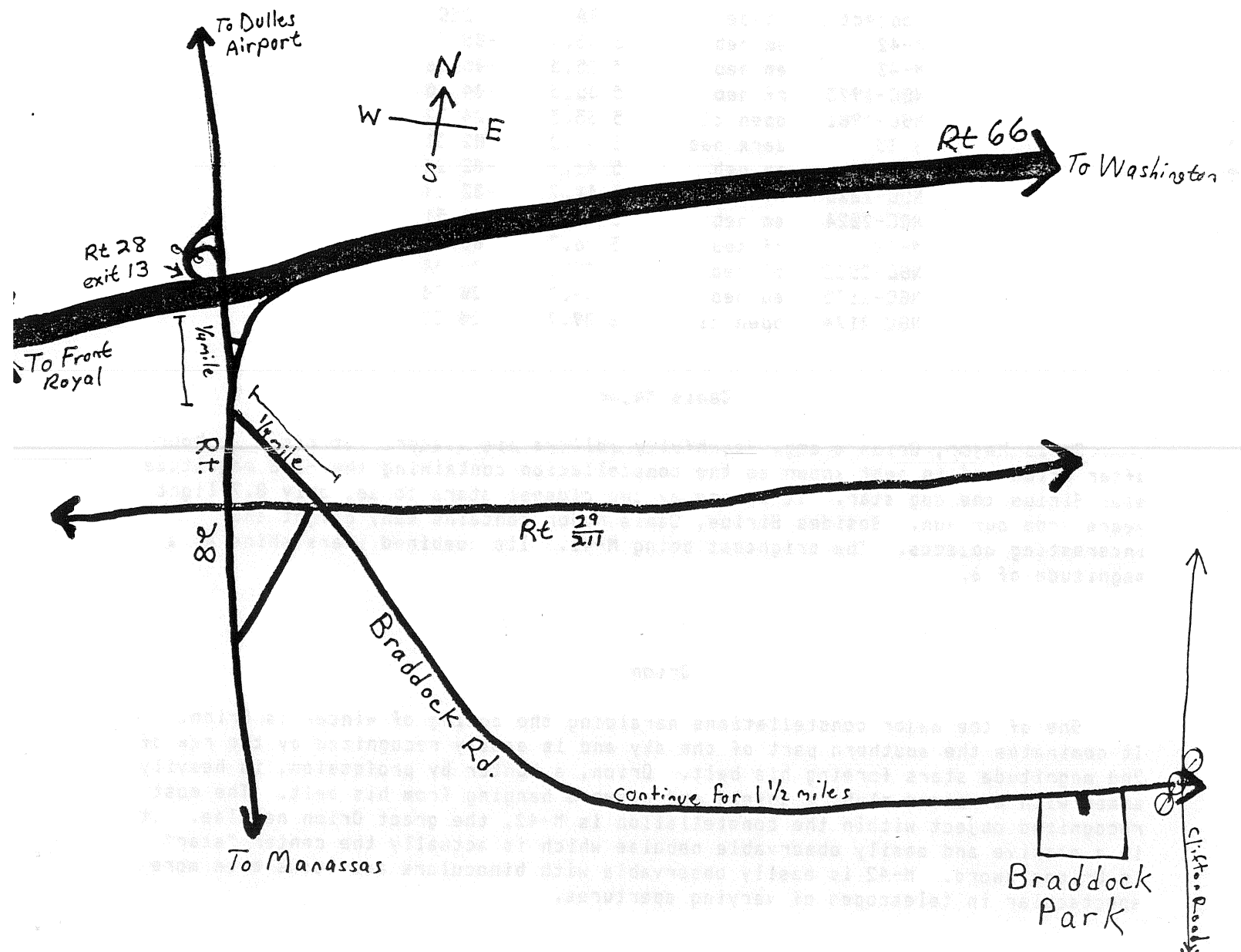
YR	MN	DY	HR	J.D.	R.A. (1950)	DEC.	R.A.	APPN	DEC.	DELTA	DELDOT	R	RDOT	TMAG	NMAG	THETA	BETA	MOON
1986	3	31	.0	2446520.5	18 32.571	-37 24.52	18 35.029	-37 22.80	.55	-35.79	1.16	26.81	4.1 13.1	92.7	59.1	23		
1986	4	1	.0	2446521.5	18 21.216	-38 46.42	18 23.709	-38 45.29	.53	-34.01	1.18	26.80	4.1 13.1	96.0	57.5	11		
1986	4	2	.0	2446522.5	18 7.434	-40 9.82	18 10.964	-40 9.35	.51	-31.95	1.19	26.79	4.1 13.0	99.4	55.7	16		
1986	4	3	.0	2446523.5	17 54.041	-41 33.29	17 56.660	-41 33.57	.49	-29.59	1.21	26.78	4.0 13.0	102.9	53.7	30		
1986	4	4	.0	2446524.5	17 37.856	-42 54.83	17 40.460	-42 55.96	.48	-26.92	1.22	26.76	4.0 12.9	106.7	51.5	46		
1986	4	5	.0	2446525.5	17 19.736	-44 11.82	17 22.367	-44 13.89	.46	-23.90	1.24	26.74	4.0 12.9	110.6	49.1	61		
1986	4	6	.0	2446526.5	16 59.592	-45 21.01	17 2.240	-45 24.11	.45	-20.55	1.26	26.72	4.0 12.8	114.7	46.4	77		
1986	4	7	.0	2446527.5	16 37.445	-46 18.61	16 40.094	-46 22.83	.44	-16.87	1.27	26.69	3.9 12.8	118.8	43.6	93		
1986	4	8	.0	2446528.5	16 13.490	-47 .62	16 16.119	-47 6.01	.43	-12.87	1.29	26.66	3.9 12.8	123.1	40.7	109		
1986	4	9	.0	2446529.5	15 46.072	-47 23.32	15 50.676	-47 29.88	.42	-8.61	1.30	26.63	3.9 12.8	127.3	37.7	123		
1986	4	10	.0	2446530.5	15 21.795	-47 23.82	15 24.332	-47 31.52	.42	-4.14	1.32	26.59	4.0 12.8	131.5	34.8	137		
1986	4	11	.0	2446531.5	14 55.313	-47 .73	14 57.789	-47 3.47	.42	0.45	1.33	26.55	4.0 12.8	135.5	31.8	147		
1986	4	12	.0	2446532.5	14 28.382	-46 14.43	14 31.767	-46 24.08	.42	5.08	1.35	26.51	4.0 12.9	139.2	29.1	152		
1986	4	13	.0	2446533.5	14 4.635	-45 7.06	14 6.931	-45 17.48	.42	9.65	1.36	26.47	4.1 12.9	142.4	26.7	146		
1986	4	14	.0	2446534.5	13 41.560	-43 42.13	13 43.765	-43 53.15	.43	14.08	1.38	26.43	4.2 13.0	145.2</				

PRESS RELEASE

Wanrow

Fairfax County would like NOVAC members to participate in a Public Halley Watch at Braddock Park near Centerville, Virginia. The watch will only be held if skies are clear from 6:30 to 8:30 PM on three evenings, January 10, 11, and 12. The sponsoring park is Ellanor C. Lawrence Park and Laurel Wanrow is the contact person at 631-0013. She would like NOVAC members to come to as many nights as possible bringing their telescopes and binoculars to assist visitors with finding and observing Halley's Comet. The problems encountered at the last Halley Watch, which attracted over 1000 people, have been taken into consideration; traffic control, sufficient staff, an information table, and sky maps will be provided. This will ensure a trouble free night. Club members should arrive early to get a choice parking spot and to get set up. To get to Braddock Park, take 66 west to exit 13, (rt 28). At the next light turn right to go south towards Manassas. Continue south on 28 for 1/4 mile and make a left on to Braddock Road. Proceed 1/4 mile and cross route 29/211. Braddock Park will be another 1 1/2 miles on the right.

NOTE: DUE TO THE HALLEY WATCH BEING SCHEDULED FOR JANUARY 10-12, OUR MANASSAS CLUB OBSERVATION PREVIOUSLY SCHEDULED FOR JANUARY 10 IS BEING MOVED TO JANUARY 17. PLEASE MAKE NOTE OF THIS CHANGE. WE HOPE THIS IS NOT AN INCONVENIENCE.



TODD'S ASTRONOMICAL TIDBITS

Prydybasz

CANIS MAJOR

object	type	(EPOCH 2000)	
		RA	DEC
NGC-2243	open cl	6 29.5	-31 17
NGC-2217	galaxy	6 20.8	-27 15
NGC-2354	open cl	7 14.2	-25 43
NGC-2362	open cl	7 18.7	-24 58
NGC-2207	galaxy	6 16.4	-21 22
M-41	open cl	6 47.0	-20 45
NGC-2204	open cl	6 15.7	-18 36
NGC-2360	open cl	7 17.6	-15 38
NGC-2359	em neb	7 17.7	-13 12
IC 468	em neb	7 17.5	-13 10
NGC-2374	open cl	7 24.1	-13 15
IC 2165	pl neb	6 21.9	-12 59
SIRIUS	dl star	6 45.1	-16 43

ORION

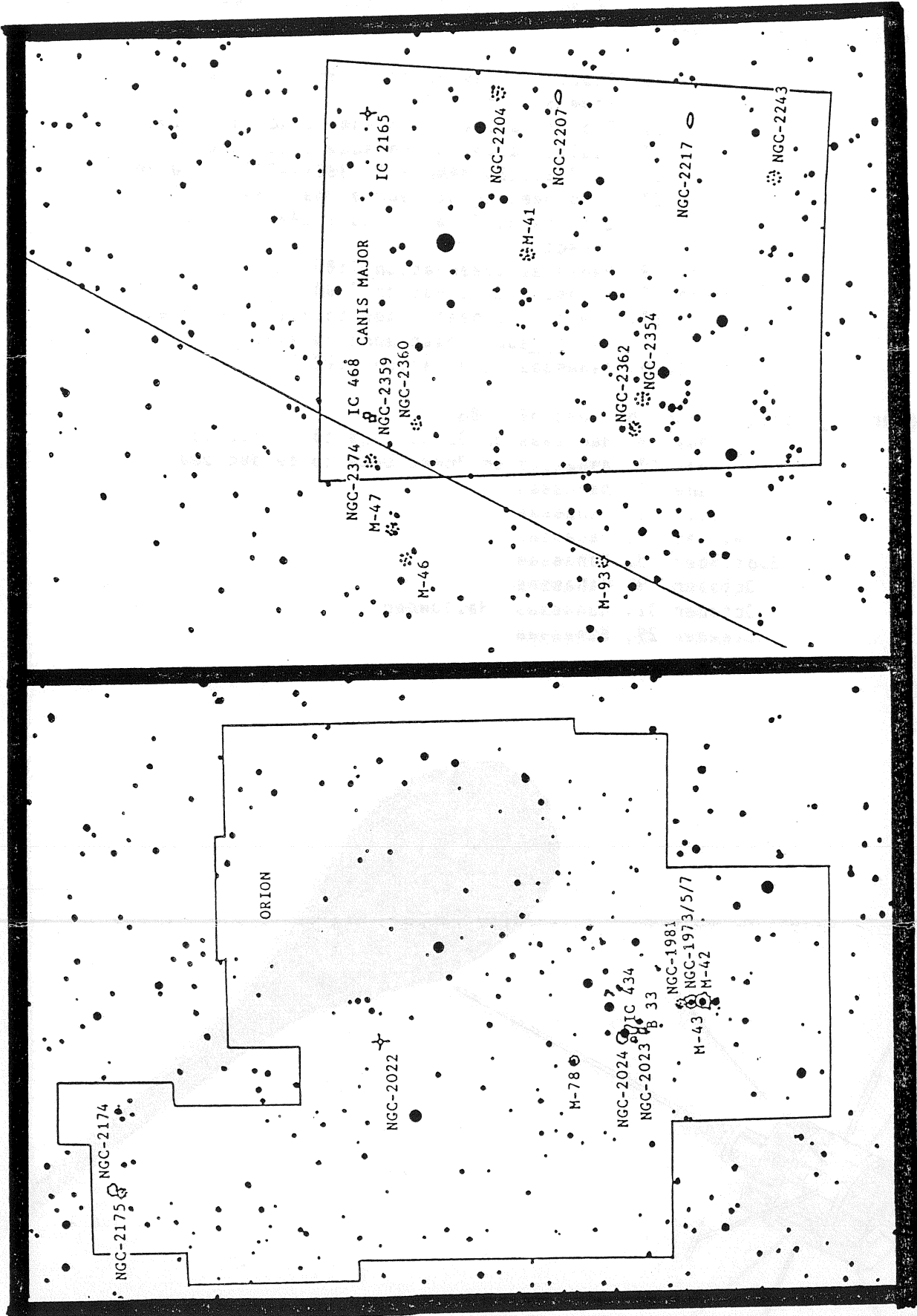
object	type	(EPOCH 2000)	
		RA	DEC
M-42	em neb	5 35.4	-05 23
M-43	em neb	5 35.5	-05 16
NGC-1973	rf neb	5 35.5	-04 50
NGC-1981	open cl	5 35.5	-04 22
B 33	dark neb	5 41.2	-02 31
IC 434	em neb	5 41.1	-02 25
NGC-2023	rf neb	5 41.7	-02 14
NGC-2024	em neb	5 41.9	-01 51
M-78	rf neb	5 46.7	00 03
NGC-2022	pl neb	5 42.0	09 04
NGC-2175	em neb	6 09.7	20 30
NGC-2174	open cl	6 09.7	20 30

Canis Major

Canis Major, Orion's dog, faithfully follows his master. It rises an hour after Orion and is best known as the constellation containing the -1.6 magnitude star Sirius the dog star. It is one of the closest stars to us, only 8.7 light years from our sun. Besides Sirius, Canis Major contains many bright and interesting objects. The brightest being M-41. Its combined stars shine at a magnitude of 6.

Orion

One of the major constellations heralding the coming of winter is Orion. It dominates the southern part of the sky and is easily recognized by the row of 2nd magnitude stars forming his belt. Orion, a hunter by profession, is heavily armed with a raised club, a shield and a sword hanging from his belt. The most recognized object within the constellation is M-42, the great Orion nebulae. It is a massive and easily observable nebulae which is actually the center "star" in Orion's sword. M-42 is easily observable with binoculars and looks even more spectacular in telescopes of varying apertures.



CALENDAR

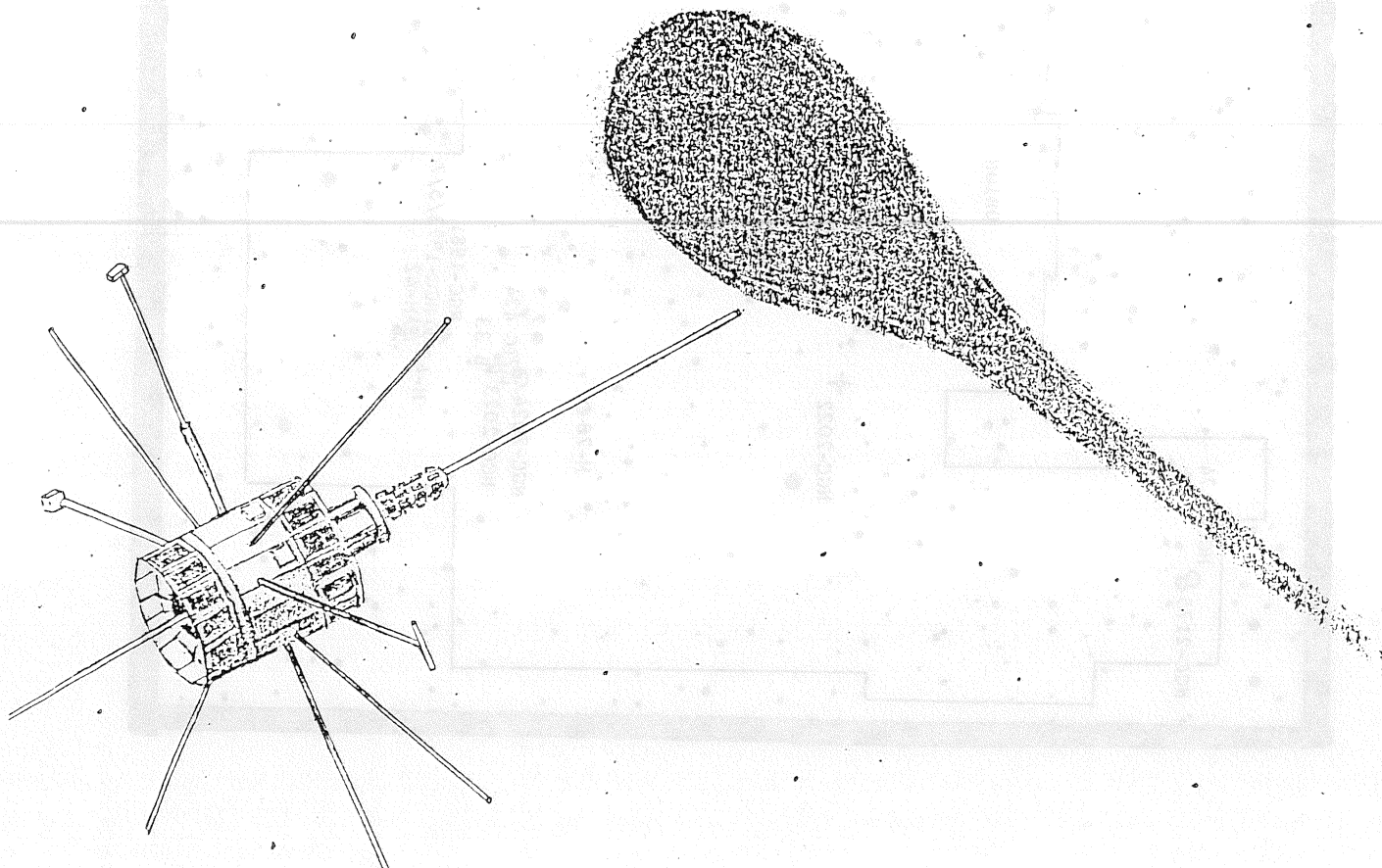
Korcel

This is a partial lineup of our upcoming events. Call 644-4331 to check on any upcoming special events.

- January 10, Public Halley Watch at Braddock Park
from 6:30 to 8:30 pm.
11, Public Halley Watch same place and time.
12, Public Halley Watch same place and time.
17, RESCHEDULED MANASSAS OBSERVATION 7:00 PM.
27, Club meeting at George Mason Regional
Library at 7:00 pm. Call 644-4331 for
directions.
- February 8, Manassas observation 7:00 pm.
March 7, Manassas observation 7:00 pm.
19, One of the best times to view the comet
in the south east morning sky.
April 5, Manassas observation 7:00 pm.

Our observing schedule for the rest of 1986!!!

- May 9, Manassas or Burke Lake to be decided
May 10, Manassas or Burke Lake to be decided
June 7, Manassas
July 11, Manassas
August 9, Manassas
September 5, Manassas
October 9, Manassas
October 31, Manassas, Halloween?
November 29, Manassas



TREASURER'S REPORT

Huggins

Well folks, we now have an account with First American Savings and Loan Association. It is a savings account which requires that we keep at least \$25.00 in it at all times or else pay service charges. I opened the account with all the cash left in the can and the checks I received that were made out to NOVAC instead of to me. The total amount was \$108.53. Within the first few weeks of the new year I will bring the balance up to the real value of \$409.95. The account is in my name and Social Security number for its tax purposes. I don't make enough money to pay taxes and I doubt that the account will accrue over ten dollars of interest. However, my intentions in opening the account were to isolate my financial fortunes from that of the club's. To do this we must have our own tax number. I am trying to contact relevant revenue authorities as to what I should do. I need your ideas! Please bring them to the meeting on January 27.

By the way, since we now have this account in the name of NOVAC please make your checks out to "NOVAC" and not John Huggins. I know this is the reverse of what I said last time but things have changed.

I have, for the first time ever, removed some people from the club's roster due to financial tardiness. We do have a six month grace period so don't panic. However, it is always a good idea to clear up delinquent accounts. For your convenience we have put the expiration date of your membership on the top right hand corner of your mailing label. As an example; if it reads "85/12," your membership ends on December 31 of 1985. Paying your dues any time in January will renew your membership for 1986. Some of you owe dues from last July! If this is you, this will be your last newsletter.

John Sullivan and Chuck Beiglea, I need to talk to you about your dues. I am a little confused.

I would like to welcome the new members to our club. They are;

Chris Adler
James Boucher
John Fisher
John Godbey
Barry Harlan
Ed Hodge
Milton Jones
Nick Jones
Daniel Lazich
Jim Liles
Ed Linville
David or Patrick McNulty
Doug & Tracey Megenity
David Mosher
Al & Lynn Schumann
Michael Sloane
Laurel Wanrow

This is 17 new members. If you haven't been listed here don't worry.

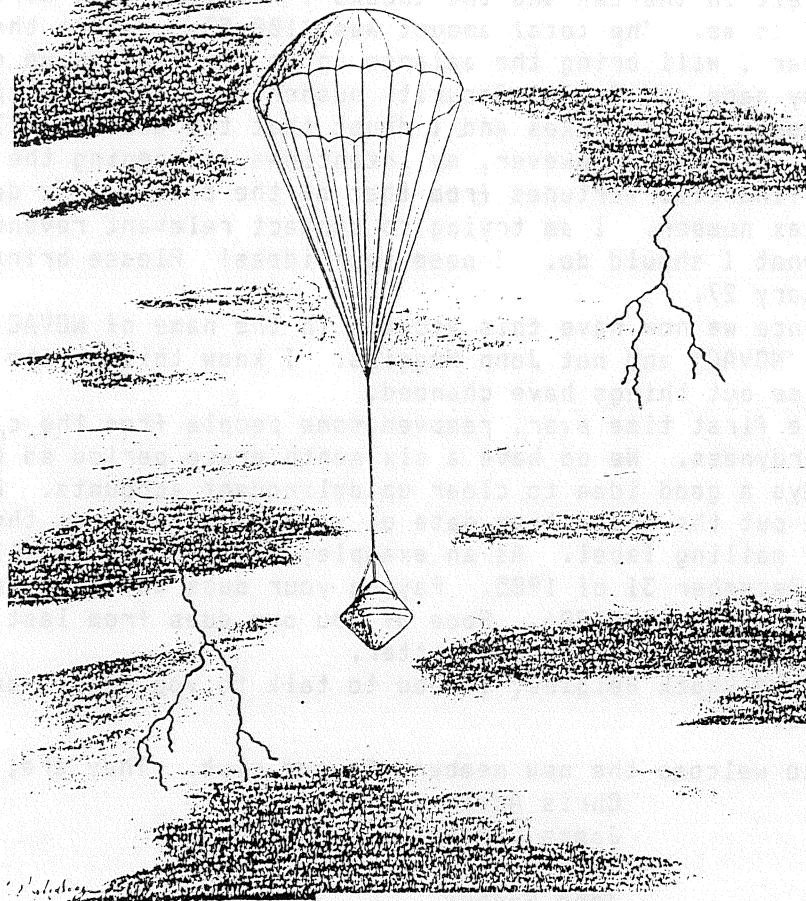
RICHARD'S CORNER

Lawson

It may be apparent that I am buying time for more vital material. Let me stress that I'm willing to let forth, in all my writing fury, your dreams and fantasies as well. So send your ideas to my office:

Richard's Corner
NOVAC CORDONA
5608 Flag Run Drive
Springfield, VA 22151

See you at the Halley Watch or else.



BURKE LAKE TELESCOPE MEET (BLTM86)
Huggins

As coordinator of BLTM, I just thought I would remind you that it isn't all that long till our next one. It will probably be in May or June. I will know the exact date by the January 27 meeting. The advertisements will be sent out to Astronomy and Sky & Telescope this month. If you have any insight that would improve this event please let me know now, planning time is very short. I plan to promote BLTM as the Stellafane of the South. I will be writing a letter to Sky & Telescope similar to the one that Geoffrey Chester wrote about last December's Public Halley Watch. It appeared in the December issue.

I would like to thank Todd Prydybasz for supplying the artwork needed for this issue.

THE NOVAC CORONA may be reproduced with credit given to the Northern Virginia Astronomy Club.

The Corona deadline is the 15th of the preceding month. For more information regarding club activities call (703) 644-4331. Send all material regarding the club including that for publication to Blaine A. Korcel, 5401 Danville Street, Springfield, Virginia 22151.

NOVAC WINTER 1986 ROSTER

As of January 1

NOVAC Information

A recording of pertinent info for the benefit of the members and the public.....703 644-4331

President

Nils Thomas.....8470 Thames Street, Springfield, VA 22151.....(work 664-6666).. 323-7476

Treasurer

John Huggins.....5608 Flag Run Drive, Springfield, VA 22151.....644-4331 or 569-4990

Secretary

Blaine Korcel.....5401 Danville Street, Springfield, VA 22151..... 256-4430

Chris Adler.....7131 Gordons Road, Falls Church, VA 22043..... 533-0773
Chuck Beighlea.....4555 Kendall Drive, Woodbridge, VA 22193.....703 670-6291
Larry Bohlayer.....10 W. Washington Street, Middleburg, VA 22117.....(work 703 687-6881)..703 687-6759
Al Boldt.....Apt. 730, 4500 South Four Mile Dr., Arlington, VA 22204..(work 756-1264/65).. 379-5721
James Boucher.....6802 Brisbane Street, Springfield, VA 22152.....(work 676-1250).. 451-3381
Dennis Boyce.....4304 Javines Drive, Alexandria, VA 22310..... 960-8688
Janet Dechary.....1330 Northgate Square, Reston, VA 22090.....(work 885-4097).. 478-0159
Bruce Drury.....9309 West Park Hill Drive, Bethesda, MD 20814..... 530-2120
Wade Emory.....6512 Brookleigh Way, Alexandria, VA 22310..... 922-7916
John Fisher.....3039 Silent Valley Drive, Fairfax, VA 22031..... 280-2348
Dave Francis.....8518 Ordinary Way, Annandale, VA 22003..... 978-4370
Ned Fredrickson.....308 John Marshall Drive, N.E. Vienna, VA 22180..... 938-6451
Matthew Gelven.....2020 Wellfleet Court, Falls Church, VA 22043..... 532-8337
John Godbey.....7611 Range Road, Alexandria, VA 22306..... 768-6068
Stan & Jonni Gority.....7934 Orange Plank Road, Springfield, VA 22153.....(work 550-8220).. 455-8297
Barry Harlan.....10201 Bald Hill Road, Mitchellville, MD 20716..... n/a
Scott Hayes.....9335 Lee Highway Apt. 1014, Fairfax, VA 22031..... 352-2854
Ed Hodge.....5902 Prince George Drive, Springfield, VA 22152..... 569-9590
Milton E. Jones.....4812 Kingston Drive, Annandale, VA 22003..... 256-3284
Nick Jones.....P.O. Box 3354, San Rafael, CA 94912.....(work 337-3900).. n/a
Richard Lawson.....5603 Flag Run Drive, Springfield, VA 22151..... 569-4458
school.....P.O.Box 3831, College Station, Fredricksburg, VA 22401.....703 899-4450
Daniel Lazich.....6008 Hibbling Avenue, Springfield, VA 22150.....(work 692-2988).. 451-6532
Jim Liles.....5314 42nd Street, N.W. Washington D.C. 20015.....(work 357-8069).. 966-3576
Ed Linville.....2645 Jackson Drive, Falls Church, VA 22043.....(work 691-7758).. 573-2431
Thomas Love.....1941 Rhode Island Ave., McClean, VA 22101..... 536-6936
Ray Lupo.....7900 Carrleigh Pkwy., Springfield, VA 22152..... 451-0659
Tarrin Lupo.....7900 Carrleigh Pkwy., Springfield, VA 22152..... 451-0659
Joe Macrie.....6641 Wakefield Drive Apt. 320, Alexandria, VA 22307.....(work 377-6040).. 660-6042
Fred Maxwell.....622 Center Street, Herndon, VA 22070.....(work 301 248-8436).. 471-6101
David McNulty.....4935 Andrea Avenue, Annandale, VA 22003..... 978-6813
Tracey Megenity.....7403 Recard Lane, Alexandria, VA 22307..... n/a
David Mosher.....7526 Little John Court, Falls Church, VA 22042..... 573-8830
Dave Norris.....9418 Goshen Lane, Burke, VA 22015.....(work 695-7620).. 323-7976
Mike Partain.....6071 Heatherwood Drive, Alexandria, VA 22310..... 922-5762
Gerald Perman.....2233 Casemont Drive, Falls Church, VA 22046..... 536-8321
Vytautas Petrulas.....5805 Bushhill Drive, Alexandria, VA 22310..... 971-3079
Todd Prydybasz.....12004 Ashley Court, Manassas, VA 22111.....703 791-5825
Richard Rathael.....4102 Portrae Lane, Fairfax, VA 22030..... 378-5445
Al & Lynn Schumann.....6121 Rivanna Drive, Springfield, VA 22150..... 971-3257
John Schwab.....10359 Granite Creek Lane, Oakton, VA 22124..... 273-3234
Michael Sloane.....705 S. Florida Street, Arlington, VA 22204..... 379-7953
John Sullivan.....10801 Pearson Street, Kensington, MD 20895..... 942-3992
Gary Sutherland.....844 Outer Bridge Quay, Virginia Beach, VA 23464..... n/a
Gilbert Swift.....5911 Dinwiddie Street, Springfield, VA 22150..... 451-4610
Dane Toler.....10214 Bushman Drive #10101, Oakton, VA 22124..... 281-2118
Laurel Wanrow.....3804 Carolyn Avenue, Fairfax, VA 22031.....(work 631-0013).. 273-7165
Robert Welsh.....3003 N. Charles Street, Apt 2N, Baltimore, MD 21218.....301 889-5772

NOVAC CONSTITUTION AND BY-LAWS

Thomas

Declaration of Higherarchy

This constitution and by-laws shall operate much like the United States constitution and laws. The constitution shall be the highest authority of behaviour, rules (laws), and activities. All rules, laws, operating procedures and other governance cannot conflict with the constitution in any manner.

Goals of the club

Item 1: The Northern Virginia Astronomy Club is a Virginia non-profit organization. Compliance must be obtained within one (1) year of ratification of this constitution.

Item 2: The club and its members shall promote astronomy to the public.

Item 3: The club shall help its members become better astronomers in any appropriate manner.

Organization

Item 1: The club shall exist with a minimum of three officers, as defined in item 2, a board of directors, defined in item 3, and members as defined in item 4 and bylaws.

Item 2: The minimum are President, Secretary, and Treasurer. Other officers may be created according to the members wishes. Officers are elected by mail ballot.

President: The term for the office of president is to be three years with a maximum of two consecutive terms. Requirements for election are a plurality of votes with at least a fifty (50) percent votes response.

The president's duties are to organize club events, interact with the public & media, and otherwise act as the chief executive officer.

Treasurer: The terms and conditions for the election of the treasurer are the same as the president.

The treasurer is responsible for collecting, dispensing, and keeping members informed, of all the club funds, dues, or other income or debits. Tax returns and other papers and monetary duties also belong to the treasurer.

Election terms are the same as the president's.

Secretary: All publications, correspondence, and media articles are to be edited by the secretary and their context is his/her responsibility.

Other Officers: No officer may serve a term longer than the president. Duties and responsibilities will be stipulated upon creation of the office by the members.

Impeachment: An impeachment vote may be given at the members discretion. Any group of members having a signed list of 1/3 or greater of club members, or classified in the by-laws, must present such petition to the board of directors for execution. Upon receipt of such petition a member of the board of directors

must do the following.

- 1) Date and initial the list with the person presenting the impeachment petition. The "1/3" factor is for all members as of the initialized date. The petitioner may demand and receive an up to date list before initializing the petition.
- 2) Verify the list within one (1) week of the above date.
- 3) Execute a mail ballot within the next sixty (60) days of the petition date. A majority of 50% votes response require immediate removal of the officer.
- 4) Members are to be notified of the results in less than 5 days.
- 5) An election to fill the remainder of the term is to be held within thirty (30) days.

Item 3: The Board of Directors.

The board of directors shall consist of five (5) members excluding officers elected at large. The highest vote receivers win. Elections are to be held annually. The board's duties are to hold elections when required, interpret this constitution, settle constitutional or legal disputes.

Item 4: Members.

Any person interested in astronomy may join the club. Members ratifying the constitution will define what a member is in the by-laws. For ratification, a member is defined as one who has paid dues when their article is mailed. Members hold ultimate authority for all laws and activities of the club. All expenditures, activities, publications, etc. must be approved by the members in a manner outlined in the by-laws.

General:

All officers and directors must uphold and obey the constitution of the United States of America and the Commonwealth of Virginia, when dealing in club matters. Conviction of a crime in U.S. or Virginia courts, related to club duties, irrespective of whether the activity was a club task, requires automatic impeachment without a vote. Examples are: Fraud, theft, libel. Unless another club member was a victim, the following are examples of crimes not club related: murder, assault, etc. All officers are expected to maintain and exhibit high moral character and behavior.

Constitutional Matters:

- 1) This constitution is ratified upon receipt of a majority vote with 2/3 of the ballot being returned.
- 2) Amendment has the same requirements.
- 3)