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Table Mountain Star Party 2001

By Robert Bunge

My wife Cathy and I have learned to time our annual visit to her parents in eastern Washington State with the Table Mountain Star Party, held just north of Ellensburg, in central Washington State.

This year, after flying out, we borrowed the in-law's big Dodge farm pickup truck, complete with truck camper, and headed out of Pasco, WA towards Ellensburg on Wednesday, two days before TMSP officially started. It is a nice four-hour drive through the desert of the eastern and central part of the state with the highlight being a scenic drive along the red and orange colored rocks of the Columbia River gorge.

After lunch in Ellensburg, we pointed the truck north and traveled the country roads to Table Mountain. The mountain is US Forest Service land and is a 6,500-foot ridge on the Southeast edge of the Cascade Mountains. The drive up the mountain is always fun - a narrow one lane paved road. I put the big diesel in low gear and pressed the accelerator until the RPMs reached 2000 and we ground up the steep road at 8 mph. It's about 10 miles from the base of the mountain to the party site, so it's a nice slow drive. As I watched the steep drop off on my side of the road, Cathy was watching the temperature steadily dropping towards the low 50's as we climbed. It was going to be a cold star party.

You know you are almost to the observing site when the mixed forest changes to evergreens/pines and the paved road becomes gravel. A stop at the registration desk was next, followed by a parking volunteer who was clearly worried about fitting in a possible record number of attendees. By chance, we ended up on pretty level ground right at the end of "Vendor Row." This was about the last level RV spot left on the site, yet the party didn't start for another two days!

There were at least a hundred other campers there and dozens of scopes set up in the middle of the very large meadow. The most level part of the field is always roped off as the observing field. If you arrive earlier in the week, you can set up in a circle around the observing field. Around the observing field, the ground drops off to a slope that's fine for tent camping.

I leveled the camper by detaching the camper and using its built in jacks, instead of the more conventional method of putting boards under the truck tires.



Ellie set up in front of the camper, ready for nightfall.

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Observing "Neglected" Double Stars: A Suburban Observing Project

By Geoff Chester

I finally managed to drag myself out to Mickie Gordon Regional Park a few weeks back to snag a few hours of observing under skies somewhat darker than those under the street light in front of my house. I was wandering around some star fields in Aquila hunting down obscure NGC open clusters when I was struck by the number of faint double stars I was encountering, some in the clusters and many more in adjacent fields. Many of these are bright enough to be seen from suburban skies with modest- to large-aperture 'scopes.

I had started the AL double-star list last fall as a project for the front yard, but often I'd whiz through the list of those stars available on a particular night quickly, leaving me looking for something else. Well, I think I've found it...

As you probably know, we here at USNO are the keepers of the Washington Double Star Catalog (WDS), the most extensive such catalog currently available. It is now closing in on 100,000 stars. Out of all of these systems, there are a huge number that are "neglected", i.e. nobody's looked at them in at least 20 or more years. In fact, there are quite a few that haven't been recorded since their discoveries by the likes of William and John

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This attracted the attention of Rick Singmaster of Starmaster Telescopes who was set up catty-corner to us in Vendor Row.

It didn't take long for Rick and I to start talking about everything from dobsonian design, to running a small business to the different tastes of local NOVAC Starmaster customers.

Next, I setup Ellie, a 12.25-inch f/5.4 "suitcase" dobsonian that I built for the trip and had only completed a few days before. If it stayed clear, tonight would be first "dark light" for Ellie.

After setup, Cathy and I wandered the telescope field with our 22-month-old daughter, Maggie. With hopes of using the truck's battery to power a laptop computer, I had set up Ellie beside our camper and not on the main field. The field was starting to fill up. There were a number of dobs in the 30-inch class, including a Starmaster produced 29-inch scope that uses one of the original Coulter 29-inch mirrors (there were only five made). More impressive was a 30-inch f/4 scope on an equatorial platform. This scope had eight different finders attached to it, a CCD camera, and even a weather station! It must take three hours to set that scope up!

TMSP is, by far, the most organized star party I've attended. Everyone is parked in an orderly manner; the workers all carry radios and get assistance quickly when needed. Camping spots are taped out before hand, so the maximum number of people can be made to fit into the available space. Four wheel ATV's are used to carry equipment around. There was much joking this year because one of the staff had left red lights that are normally installed in the port-o-johns at home. Port-o-johns are cleaned twice a day and never want for paper. A caterer from Ellensburg provides prepaid meals and a vendor from Ellensburg runs an all-night burger/hot dog stand, and this year, there were two fancy coffee stands on the mountain set up by Thursday. These are wonderful additions to a star party - mochas at 1 a.m. really help you get through those last hours of darkness.

After dinner, it was apparent it was going to be a good night, but very cold. I attached my Sky Commander Digital Setting Circles (DSCs) to Ellie and did a final collimation. As I did this, I realized the temperature was dropping really fast and dew was forming on the lid to Ellie's

mirror box. I turned on my homemade dew heaters for the secondary mirror, which is completely exposed on Ellie. A quick look at Mars showed about what I expected; the planet-encircling dust storm was obscuring most detail, but the South Polar Cap had a nice dark ring around it. Next, it was off to do a two star alignment and see if the DSCs worked. I punched in M-13 and moved the scope. Yep, there was the globular in the eyepiece. Punched in M-51 and moved. Yep, there was the galaxy. It felt good to know the DSCs were operating properly and Ellie's design was going to work! This was very important because in order to save weight, I had not brought a finder for Ellie; I would depend on the DSCs to find all objects once the initial two star alignment was done.

Maggie had gone to bed, so we spent the next two hours bouncing up the Milky-way, looking at all of the summer time favorites; Messier's 8, 21, 17, 16, 12, 11, 14, 10, 27, 71 and a dozen other objects passed through the eyepiece. The Veil nebula looked great through the 28mm Pretoria eyepiece and a Lumicon OIII filter. Ellie was clearly going to work - in fact, its pointing performance with the DSCs was better than TJ, my 20-inch dobsonian. By now the temperature was well into the upper 30's. Cathy called it a night and retreated to the heated camper with Maggie.

Because of space limitations, we hadn't brought our normal cold weather gear, so we were using whatever clothes we could borrow from Cathy's parents. I was also freezing. I decided to warm up by walking around. The short trip to the main telescope area showed that it was mostly deserted! Why? The dew! The fast forming dew had caught most by surprise and after they dewed up, they gave up. Only a few people were still observing under the clear skies and the blazing Milky Way. I stopped to look carefully. It was darker tonight than any of the clear nights we experienced at TMSP in 2000. There wasn't as much haze in the air. I had also been convinced that aurora activity last year had brightened the sky. I walked the field some more and ended up back at Ellie. I sat down with a copy of Bright Star Atlas - and started to shiver uncontrollably. I looked around and realized that one of the coffee

stands was set up, but they weren't open for business. Remember, the star party really didn't start for another two days! I closed up Ellie and retreated to the warm camper.

As I climbed under the covers, Cathy commented: "We went to WSP (Winter Star Party) in February and wore shorts and t-shirts. We come to TMSP in July and freeze."

Thursday daytime was split between hiking up to Lion Rock, an overlook near the observing field with a wonderful view of the Stewart Mountains, working on Ellie and meeting new friends. From the Rock, the snow pack on Mt. Stewart (12,500 ft) was much less than last year, a clear sign of the drought the region is working through. Even though some clouds had rolled in, observers rolled in on a regular basis. More telescopes appeared on the field. The coffee stands set up and a couple more vendors arrived.

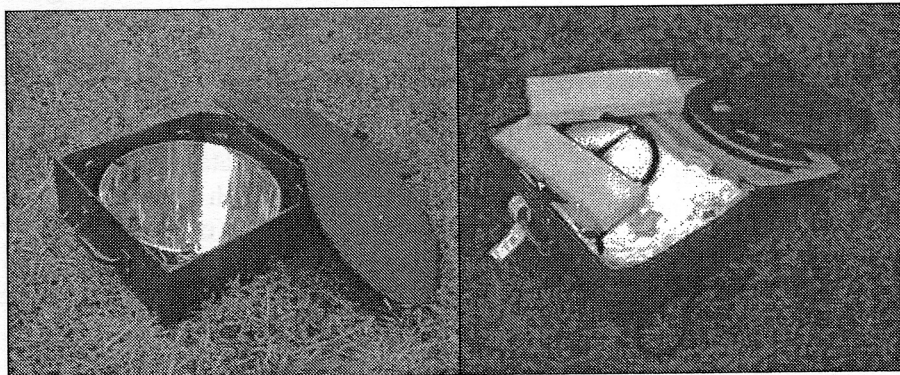
By dinnertime, it was time to get ready to observe. I uncovered Ellie, tweaked the collimation and pulled out my laptop computer and the RS232 interface for the Sky Commander. The early evening was spent looking at more Milky Way showpieces. It was clearer and darker than Tuesday night.

About 12, Cathy went for coffee and I booted up the laptop and tested the RS232 interface to Megastar. It didn't work and I soon localized the cause in the cable between the DSCs and the laptop. By now clouds started to roll in.

Cathy called it a night, so I wandered across the road to the observing field. The sound of unfolding Mylar telescope covers was deafening as people closed shop. After walking around the field some, I ended up taking again with Rick Singmaster. He introduced me to his partner-in-crime and one of the best mirror makers of our day, Carl Zambuto. Before we knew it, the clouds had moved off. Rick pointed his big 24-inch scope at M-101 and we chased down HII star forming regions in the distant galaxy. In the 24, with an UHC filter and 600x, it was possible to see dark lanes extending across NGC 5462, one of the extra-galactic HII regions. After looking at some other objects, at my request, Rick punched in NGC 891. I manually star hopped about a degree away to an old favorite of mine, Abell Cluster 347 - a collection of about 30 14-18 magnitude galaxies in a single field of view. We could easily see a couple of dozen of the galaxies at 300x. Carl spent a long time looking in the eyepiece - it apparently was the first galaxy cluster he had seen.

I looked up to see Jupiter and Venus rising, so I crossed the road back to Ellie and started to look for some of the Arp galaxy groups that were my primary observing goal this trip. On the second group, I had to rush my drawing of the object as twilight was very quickly interfering with the dark sky. Afterwards, I grabbed a chair and watched the growing twilight until I started to nod off and then climbed into the camper.

Friday, there was a continuous stream of cars

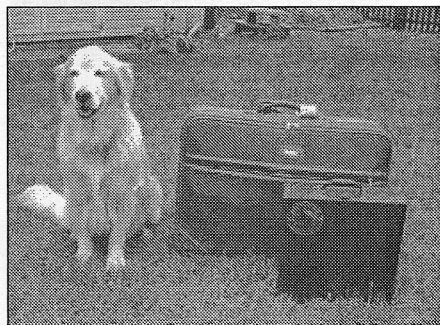


Ellie's mirror box was kept as small as possible, and all of the other parts fit into a standard size suitcase.

coming up the mountain. I got a good afternoon nap, but the skies didn't look all that promising. Next, I took apart the DSC RS232 interface to discover a broken wire. One of our neighboring observers had mentioned he was a ham radio operator... a clue that might lead to a fix. Sure enough, he had a soldering iron. The camper's generator provided the AC power for the iron, and fifteen minutes later, the interface was fixed.

But by evening the weather was only getting more threatening; as I took a walk around the field just about sunset time, many tent campers were packing up and starting to leave. I looked forward to a solid night's sleep.

Saturday morning came with warming air, a



Once the telescope is packed, it can be easily transported on airlines. The suitcase is checked as baggage, while the mirror box is carried on.

threat of rain, a swap meet and the telescope contest. The threat of rain forced most of the swap meeting into a very large, but very crowded tent. Of the many things for sale, one item that really impressed me was a guy selling a set of 1.5-inch OD x 8 feet long truss tubes, perfect for a 20-inch f/5 or so dobsonian. Great price at \$150! But even more impressive was that they weren't aluminum, but titanium! They were from the Boeing Aircraft scrap pile, were thinner wall than aluminum tubing and very, very light. The guy said they could be cut with a standard pipe cutter. It was very tempting to ship them back to Maryland. They were too short for my 20-inch, but might have had higher resale value on the East coast. Only in the Northwest would you see this; last year a guy showed up with a beautiful 6-inch f/15 refractor made completely from titanium.

I moved Ellie to the telescope contest area before lunch. I had debated if I should enter the ultra-lightweight 40lb 12-inch scope in the contest, as there where parts of the scope I didn't consider complete and a few issues were still being worked out. Also, like many of my scopes, Ellie is a little unorthodox and I wasn't sure some of my concepts would be accepted, or even understood, by the judges. Oh, what the heck. In hindsight, I don't think the judges did understand some of more detailed design points about the scope; or perhaps they were just overwhelmed from the 15 scopes they had

looked at before Ellie. For more pictures and information about Ellie, see <http://www.ladyandtramp.com/ellie/>.

I didn't win anything, but lots of people had good things to say about Ellie and many pictures were taken of it and I picked up some good ideas. Suitcase scopes were quite the fad - there were three others entered. An 8-inch was a real piece of craftsmanship, another, 10-inch, a true wonder in complex design. But no other suitcase scope there had actually traveled 5,000 miles in an airliner and survived the suitcase monkeys to get there! Saturday daytime it had actually warmed up to the point that many were walking around in short sleeves. Late afternoon brought scattered rain showers. Maggie and Cathy were napping in the camper; so I took a chair to the speaker's tent and part listened and part slept through a talk about Planetary nebula. I learned the nebula we see in our scopes normally only lasts about 10,000-20,000 years, a mere blink in the life span of a star, let alone the galaxy. Door prizes were after dinner, but they failed to call any of our numbers. They announced that 1211 people had attended, 11 more than their target number. I suspect better weather on Friday would have increased the total by a couple of hundred.

During Saturday, the clouds had threatened enough that many people had decided to leave. There were lots of clouds at sunset, but they looked to me to be thinning. During the telescope contest, I had taken Ellie's primary mirror out to show someone the mirror cell. I had forgotten this and only realized after darkness was upon us that the scope was completely out of collimation. I did a crude nighttime collimation job with the help of a laser borrowed from Rick Singmaster. The laptop and DSCs were fired off, the laptop was wired to the truck battery and everything fell into place. Arp galaxy after galaxy fell victim to the telescope, DSC, laptop, Megastar and was recorded on paper by my pencil. Hot mocha's helped to keep me warm and I only stopped observing well after Jupiter was up and the sky was brightening again.

After it was too bright to look at faint fuzzies, I walked over to the main telescope field and stole a look at Jupiter and Venus through an 8-inch f/15 achromatic refractor with a D&G lens. Nice views considering the seeing conditions and how low the planets were to the horizon.

After a brief nap, it only took a half hour to pack up the camper and get it ready for the road. After saying goodbye to our friends, we headed down the mountain.

TMSP is a very good party. While the skies aren't the darkest and there isn't that many dark hours at 47 degrees north latitude in July, I greatly appreciate the party's organization. The people are friendly (as most amateur astronomers are) and always willing to befriend visitors from the East coast. *

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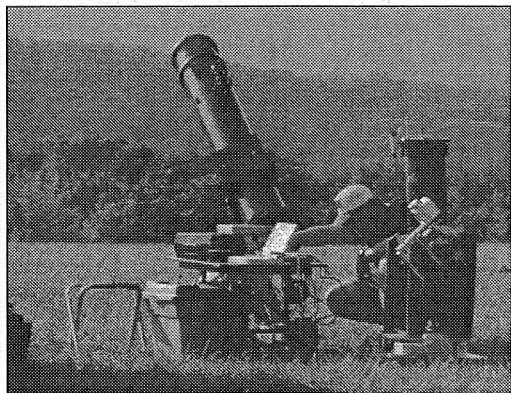
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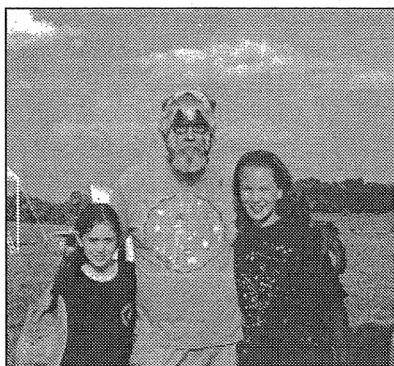
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NOVAC Stargaze 2001 in Pictures



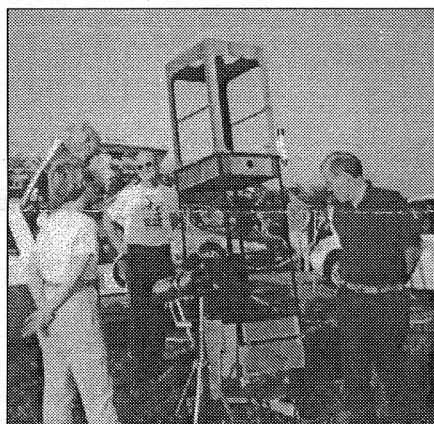
Brad Davy sets up his homemade scopes.
(Photo by Anne Beamer)



Ed Karch with face painters.
(Photo by Glenna Avellone)



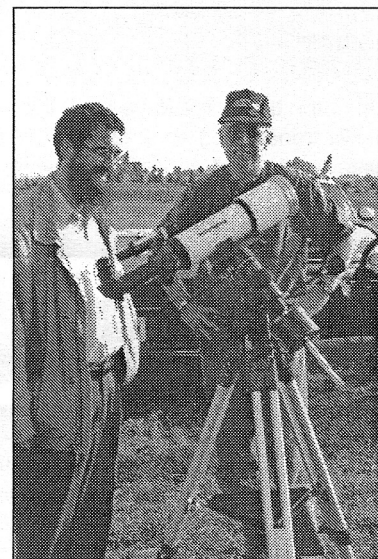
Pouring over the meteorite exhibit
(Photo by Elizabeth Warner)



John Avellone discusses Sweet 16.
(Photo by Glenna Avellone)



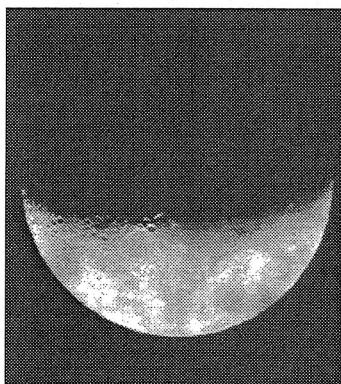
The field waits for night to fall and the clouds to disperse. (Photo by Bob Pinkham)



Small scopes were numerous this year. (Photo by Elizabeth Warner)



Bill Burton takes stargazers on a tour of a scale model solar system. (Photo by Anne Beamer)



The moon was a popular target before the clouds moved in. (Photo by Bob Pinkham)



Alex Lim discusses his binocular mount. (Photo by Mike Mills)

"Neglected" Doubles

(Continued from page 1)

Herschel! We'd like to confirm as many of these systems as possible. You don't even have to make precise measurements...all we need to know is "Yup, it looks like a double to me, the bright one's thisaway and the faint one's thataway, and they're about this far apart". We've even done the dirty work for you, parsing out the "easy" ones and making finder charts for them. You can see these at <http://ad.usno.navy.mil/wds/wdtext.html#neglected>.

You never know what you may find. Just this past September one of our observers was looking at a star last observed by John Herschel in 1830. It proved to be a genuine double and then some...one of the components may itself be double! So, if you're looking for a back yard program, here's a chance to follow in the footsteps of some of the *legendary observers of yesteryear* and help us track down some "lost" stars.

Here's a brief description of one class of these doubles from the WDS Home Page:

A large number of systems in the WDS may be characterized as "neglected." These include unconfirmed binaries as well as systems which have not been resolved for many years. The reasons for this neglect are varied: poor coordinates or large proper motion (so the systems are "lost"), erroneous magnitude or delta-m estimates (so the systems are skipped over or misidentified), or true neglect (too many binaries and too few observers). While the veracity of some of these systems is certainly suspect, many (if not most) of these are bona fide double stars. Three sets of lists are provided in observing list format. The first set was compiled using the following selection parameters:

- Separation greater than three arcseconds
- Delta-m (V band) of less than three magnitudes
- Both components brighter than 11th magnitude and one of three possible parameters meriting inclusion
- Not observed in twenty years (an N code)
- Unconfirmed (a C code)
- Orbit system in the above parameter space, possibly useful for calibration (a * code)

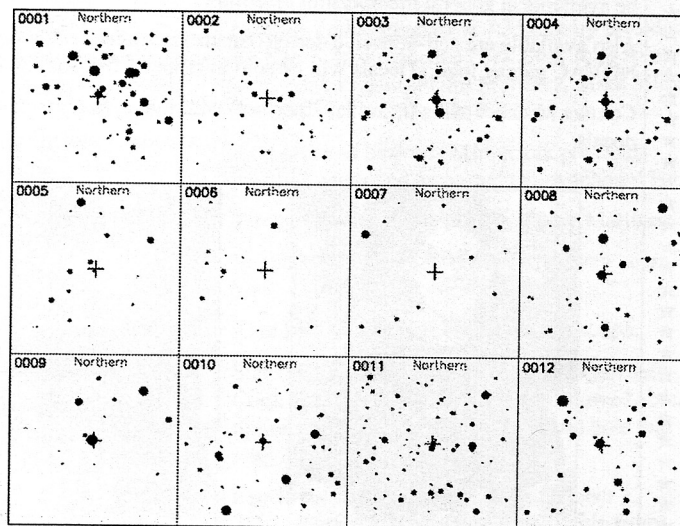
A total of 6442 objects meet these criteria. 3072 of them lie north of +20 degrees declination.

Here's a sample of the first 12 stars in the northern list. These are currently visible in the evening sky.

Discoverer Code	Magnitude		Last Obs.	Sep. (")	PA (°)	Approx. 2000 Pos.		Code
	A	B				RA	Dec	
STH248	10.9	10.9	1961	12.3	42	00 00 24	+60 26	N
ES 1292	9.7	9.8	1980	3.3	92	00 01 30	+46 17	N
BU 482 AB	9.4	10.4	1955	4.3	342	00 01 54	+63 19	N
BU 482 AC	9.4	11.0	1955	10.1	125	00 01 54	+63 19	N
MLB 591	9.8	10.2	1928	4.1	345	00 03 06	+30 33	C
ES 2400	10.5	10.5	1929	6.1	105	00 03 12	+33 15	C
ES 2444	10.0	10.3	1930	6.8	256	00 03 12	+37 14	C
HJ 1931	8.0	10.7	1908	22.5	115	00 04 12	+49 59	N
STF3056 CD	9.1	9.7	1981	111.8	227	00 04 42	+34 16	N
ES 864	9.4	10.9	1909	9.0	174	00 04 54	+49 39	C
HJ 1933	10.9	11.0	1913	14.8	98	00 05 06	+63 23	N
STT 547 AB	8.2	8.3	1998	6.1	182	00 05 42	+45 49	*

Let's look at HJ 1931: It was discovered by Sir John Herschel in the 1830's and last observed in 1908 to have components of magnitude 8.0 and 10.7, separated by 22.5 arcseconds in Position Angle (PA) 115 degrees. It is located in Cassiopeia, about 6 degrees southwest of Zeta Cass.

Below is a sample of the finder charts associated with these doubles. HJ 1931 is frame number 0008. The charts are digitized renderings from the Palomar Observatory Sky Survey (POSS). The cross-hairs mark the location of the double in question. In some cases there's a bit of an offset due to the proper motion of the stars since the initial images were made. The chart is there to help you locate the field. It's fairly straightforward to go from there to the eyepiece and look for a double that closely matches the parameters in the catalog. The charts may be found on the WDS web page in PostScript, Acrobat (PDF), or GIF formats.



Most of these stars are fairly faint, but they should all be within the grasp of a good 8-inch telescope at a typical suburban location. Observation is pretty straightforward. Choose a moderately high power of about 20x - 25x per inch of aperture. Observe a few of the well-known doubles on the AL list to get a "feel" for estimating the component separations and position angles of the secondary with respect to the primary. The latter are measured from north (0 degrees) through east (90 degrees), south (180 degrees), and west (270 degrees). One easy way to figure the orientation of the field is to turn off your telescope's drive (if any) and watch which way the stars drift. They will always drift toward the west, so a star whose secondary "precedes" the primary will be at a PA of somewhere around 270 degrees. If you're observing without a star diagonal, north will be 90 degrees "clockwise" from west; with a diagonal it will be 90 degrees "counterclockwise".

Your observations do not need to be precise, but you should note a few things in your logbook, such as UT date and time, observing site, the target star, instrument aperture and magnification, "seeing" conditions (steadiness or turbulence of the atmosphere), and the estimated separation and PA. Who knows...you may be the first person to observe one of these systems in over a century! You may feel free to submit your observations to me at grc@usno.navy.mil, or directly through the "comments" form on the WDS web page.

Good luck and good hunting! ✨

ANNOUNCEMENTS

NOVAC T-Shirts and Decals Available

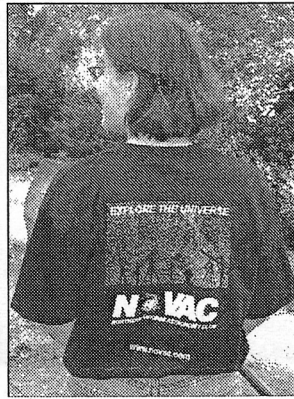
NOVAC is selling 100% cotton t-shirts that sport Bill Burton's design on the back and a small, circular logo on the front left breast. The shirts are navy blue, and the designs are rendered in white. They cost \$12 and come in adult sizes small, medium, large, extra large, and extra-extra large. The shirts will be available at general membership meetings.

Also available are self-adhesive decals that are decorated with a circular NOVAC galaxy logo. Decals will be sold in strips of five for one dollar.

Contact Michael Mills (mjmills@fpcc.net) with inquiries regarding shirts and decals.



T-shirt front



T-shirt back

NOVAC Elections to be held at December Meeting

Officers and trustees for 2002 will be elected at the General Membership Meeting on December 9.

Following club announcements and elections, the meeting program will consist of refreshments served in the lobby outside of the main conference room. This meeting program is intended to provide to NOVAC members and guests an opportunity to get to know the people that go with the voices they hear in the dark.

Bylaws changes set for November vote

Important changes to the club bylaws will be voted on at the November 11 Membership Meeting. Please plan to attend, as 10% of the membership must be present at the meeting to qualify as a quorum. Two amendments to the bylaws have been proposed:

1. Incorporation Article 12, which reads "No person shall be elected to serve in the same office or additional trusteeships for more than four consecutive terms" would be changed to add ", with the exception of Treasurer which shall have no term limit".
2. Amend Bylaws Article 2 as amended May 18 1994: "All checks over \$300 must be signed by two trustees" to read "All checks over \$800 must be signed by two officers or trustees".

The term limit for club treasurer needs to be lifted so that Pedro Martinez can continue his excellent service to the club. Since the office of treasurer requires some expertise in accounting and finance, and Pedro is a professional accountant, it would be greatly beneficial to the club if Pedro can continue to serve as treasurer.

Raising the limit on single signature checks would be a great convenience for the club's officers, as explained by Pedro:

Currently, checks for more than \$300.00 require two signatures, while checks that are less than \$300.00 require only one signature. This has worked well in the past, but due to rising costs (such as newsletter printing costs) and increases in NOVAC's membership, the \$300.00 level does not meet today's needs. After a careful evaluation of past invoices I propose that the level be increased to \$800.00.

I want to pay the invoices as soon as I receive them to help NOVAC develop & maintain a good credit rating. This will help NOVAC get credit applications approved. Also, NOVAC has filed a credit application with the local printing shop for the company to invoice us for the newsletter printing costs, which are normally more than \$300.00. Raising the level at which two signatures are required, will allow me to pay the printer directly, greatly simplifying the newsletter printing process. This will become our first major credit reference and this will help NOVAC to build better credit references in the future.

*Pedro Martinez, Jr.
Treasurer*

NOVAC Member Directory

Joe Pierson/Beckie Campbell

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Highlights of NOVAC Meetings

Renee Pleasant



September 4, 2001 Board Meeting Arlington Planetarium

Meeting called to order by President Ed Karch. Minutes of previous meeting approved as posted to the NOVAC board list.

Joe Pierson gave the membership report. 12 renewals. Exact membership numbers needed by Ed K. to calculate number of members required for a quorum.

Member Robert Owen passed away this past month. His daughter contacted Joe with a request for help in selling her fathers telescope and other astronomy items.

Report on the lending of various club telescopes followed.

Ed Witkowski gave a report on upcoming public outreach sessions scheduled. October 12, Mickie Gordon Park 7p.m.-10p.m. November 16, 2001 Cub Scout pack in Kensington, MD. Two other tentative viewing sessions, also with scout troops.

Ed Witkowski has approached his Prince William County supervisor about making a presentation on light trespass. Pete Johnson has the slide presentation and will make it available to Ed.

Ed Wikowski reports an email confirmation on the Solar Filter has been received and the required deposit has been made.

The Legacy Buffalo ranch agreement has been finished and final approval of the ranch owners is be awaited.

Dobzilla, Ed Karch suggested a fund raiser by all interested parties as well as a Special Interest group.

Star Gaze: board still needs a report and what details of the plans for the Star Gaze are. Ed W is handling some of the advertising.

Speakers for upcoming meetings: October, John Nusbaum - The Astronomy Lifestyle. November, Tom Dietz- Purchasing a Telescope. December Ed Witkowski - Star Clusters, or a Christmas Party?

Elections to be held in December, Nominating Committee: Alan Figgatt, Ed Witkowski, Alex Lim.

Articles of Incorporation (to change by-laws regarding term limits) cannot be changed by the September meeting.

Oakton Planetarium October 17, 2001 7:30p.m. Jack Stifler

Prices set for T-shirt sales at \$12.00.

Meeting Adjourned at 9:25 p.m. Submitted by Renée Pleasant, Secretary.

General Meeting September 9, 2001 GMU Enterprise Hall, Room 80

Meeting called to order at 7:10 p.m. by President Ed Karch.

Approximately 47 members and 7 visitors in attendance.

Ed Karch made various announcements including plans for a vote at the November meeting on a change in the by-laws to remove term limits and to increase the dollar amount of checks that require a second signature.

The possibility of acquiring a 36" Dobsonian telescope, dubbed Dobzilla has prompted the forming of a special interest group to pursue that goal.

John Avellone was awarded a Sweet 16 ribbon for his tireless planning and work on the newest club telescope, which uses a 16" donated mirror.

Upcoming dates of interest include the September 21, 2001 opening of the exhibit at the Air and Space museum. September 22, 2001 is the NOVAC Star Gaze.

October 13, 2001 Meeting of Virginia Association of Astronomical Societies in Roanoke, Virginia.

October 17, 2001 Oakton High School Family Astronomy night.

John Avellone presented recent Astronomical League awards: Messier Binocular award to Ed Karch, completed during 30, August 1997 thru July 2001. Laquetta Karch received the Sun-spotter award.

Tom Dietz reported on Black Forest and dark sky observing, with a final trip to Spruce Knob in October upcoming.

Ed Witkowski reported on upcoming Public Outreach:

Oct 12, Star Gazing for the Sterling Rec Center in Loudoun county held at Micke Gordon park.

November 16, Friday. Kensington Maryland. 85 Cub Scouts. If you are available to assist in any of these public outreach sessions, contact Ed Witkowski.

Public Observing at Sky Meadows upcoming on Saturday Spetember 15, not a NOVAC event, but many NOVAC members volunteer.

T-shirts will be available at the Star Gaze.

Sky Tour with Alan Figgatt

Adjourn to view the many ATM scopes/projects on display.

Submitted by Renée Pleasant, Secretary.

October 2, 2001 Board Meeting Arlington Planetarium.

Meeting called to order at 7:35p.m. by president Ed Karch. In attendance Alex Lim, John Avellone, Alan Figgatt, Pedro Martinez, Mike Mills, Beckie Campbell, Renée Pleasant.

First order of business Minutes of previous meeting, approved as posted to novacboard list.

Treasurer's report: as filed by Pedro Martinez.

Membership report 39 renewals, 19 new members.

Alex Lim gave report on 10" loaner scope.

Star Gaze report: neither Bill Burton nor Jeff Cook able to attend. Discussion followed about options for location of Star Gaze and how that may impact attendance.

Crockett - Agreement ended on October 1, 2001. No further information available from Crockett coordinator Tilly Smith.

Analemma Society meeting cancelled.

Club Storage: Pete Johnson not in attendance, no update available. Ed Karch states his garage is full of signs, stakes other NOVAC items.

October's meeting will now feature Pete Johnson discussing the G.O.D. and it's construction. Craig Tupper needs to receive description of the talk, to update the Speakers page on the NOVAC website. Sky Tour will be either Ian or Alan.

December meeting will be a Christmas party; Sean will contact Harold Geller and see if food/beverages will be allowed in the foyer.

T- Shirts Sales: \$998.00 by Pedro's count T-shirts will continue to be available at some Public Outreach events, Prime Observing and at monthly meetings at \$12.00 each.

Reminder of Family Night 10/17/01 at Oakton Planetarium.

Movie Tickets? Contact Pete Johnson.

Sweet 16. Another month of adjustments and the telescope known as Sweet 16 will be ready to be placed with another member. Will not be used as a loaner scope, per se, but will be used in outreach etc. 3 eyepieces 50x, erfel, 30mm

(Continued on page 18)

Upcoming NOVAC Meeting Programs

Sean O'Brien

November 11

Preparing for the Holidays

Tom Dietz

Tom will speak on types of telescopes and what to look for (and avoid) for Santa's sleigh.

December 9

Election Party!

Elections for officers and trustees for 2002 will be held at the December meeting. Following the elections, holiday refreshments will be served in the lobby outside the meeting room. There will be no scheduled speaker—instead, members and visitors are encouraged to visit with each other.

January 13, 2002

Star Clusters

Ed Witkowski

PLEASE NOTE: the schedule of speakers is subject to change. Please check at <http://www.novac.com/meeting.html>

for the latest info prior to the meeting.

What's YOUR interest? Let sean.o'brien@nasm.si.edu know.

Come share and learn about YOUR favorite topic!

National Capital Astronomers Meetings

Note: New Time and Place!!

Dr. James R. Zimelman will present the featured talk for the November 3 meeting of National Capital Astronomers, "Galileo at Jupiter". The meeting will be held in the Bethesda-Chevy Chase Regional Services Center of Montgomery County, 4805 Edgemoor Lane, Bethesda, MD at 3:00 P.M.

The meeting will be from 3:00 PM to 5:00 PM. Dinner will be held at the Rio Grande Restaurant, 4919 Fairmont Ave., Bethesda, tel. 301 - 656-2981, following the meeting.

For future meeting programs, see <http://www.capitalastronomers.org>

About NCA Meetings

NCA has regular monthly meetings September through June on the first Saturday of the month (unless it is a holiday weekend).

They do not have a monthly meeting in July or August.

Meeting Highlights

(Continued from page 17)

100x Collimated upon setup.

Ed Karch reports he has approached Fairfax Co. about observing at Popes Head Park, he will report later with results.

Sean O'Brien has been contacted by a former NOVAC member about a possible observing site at a private farm near Delaplane. Sean will arrange a visit to assess site on October 6 or 7, 2001. Results will be posted to list.

Sean has approached Sky Meadows about overnight camping for Leonids. Still waiting for a reply. He will report capacity of campground; pit toilets are available, water near the farmhouse.

Meeting adjourned at 8:55p.m. Submitted by Renée Pleasant, Secretary.

General Meeting October 14, 2001 GMU Enterprise Hall, Room 80

President Ed Karch called the meeting to order at 7:15 pm. A raffle was held to distribute 8 free screening passes to the movie "K-PAX". Also raffled was a celestial planisphere jigsaw puzzle donated by Bob Traube.

The first Oakton Planetarium Family Night was

announced. It is to be held October 17, 2001 at 7:30 pm.

The next ATM-SIG meeting will be held October 21 at Pete Johnson's house. It will begin at 6:30 pm.

Ed K. announced that the club has ended its formal observing agreement with Crockett Park, but discussions are underway add two new observing sites.

Alan Figgatt presented the sky tour, demonstrating the conjunction of Mercury and Venus in the morning sky in early November.

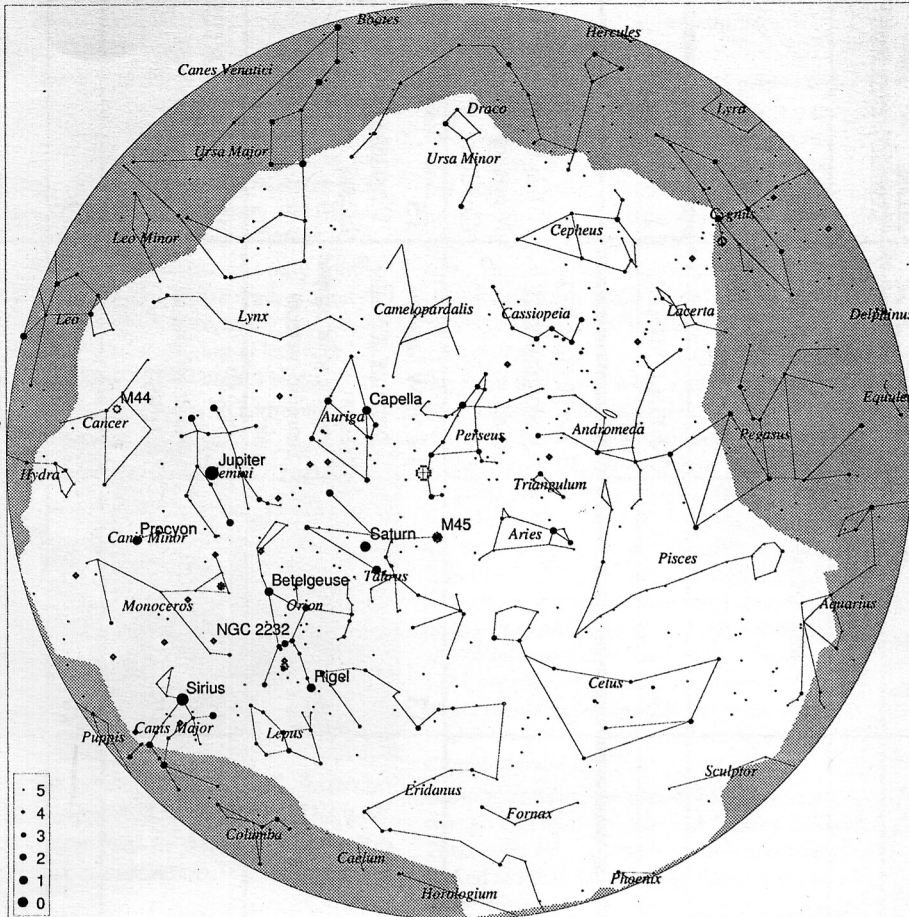
For the main program, Pete Johnson spoke about constructing large dobsonian telescopes, based on his experience building his 24" 'scope.

Meeting adjourned at 8:45.

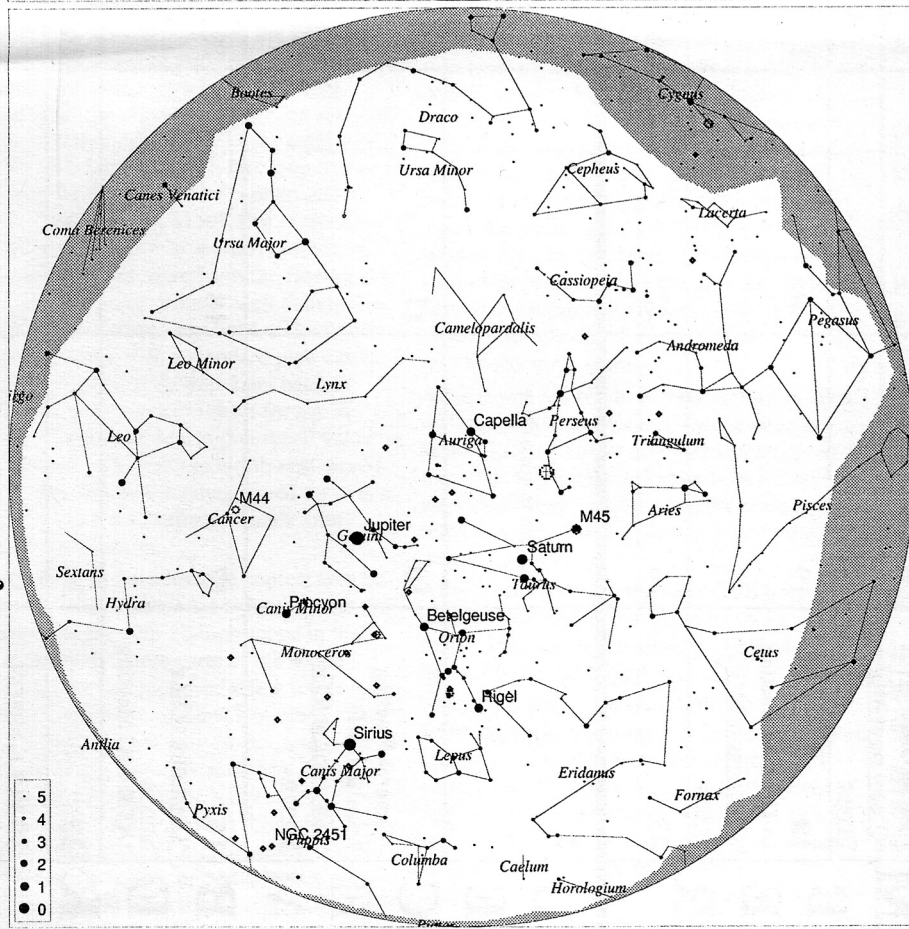
Submitted by Michael Mills

Each map depicts the sky at 0 hours for the 15th day of the respective month.
The shaded area approximates the local horizon obstruction at each site.

November Sky from Savage Farm



December Sky from Mickie Gordon Park



Jeff's Observing Report

Jeff Stetekluh

Jeff's astronomical calculations are made for the Northern Virginia area. See <http://www.novac.com/jeff/jrefs.html> for calculation references.

Principle Club Observing Nights

- Nov 9,10,16,17
- Dec 7,8,14,15

Jupiter Eclipse Events on Principle Club Observing Nights

- Nov 11 12:04 AM Io Eclipse Start (S -68 J 101 39)
- Nov 11 (next meeting) 10:28 PM Europa Eclipse Start (S -62 J 87 21)
- Nov 11 (meeting date) 10:28 PM Europa Eclipse Start (S -62 J 87 21)
- Nov 18 1:58 AM Io Eclipse Start (S -57 J 135 65)

The Sun

- Nov 11 rises at 6:47 AM, sets at 4:58 PM
- Dec 9 rises at 7:15 AM, sets at 4:46 PM

The Moon

- Nov 1 Full Moon
- Nov 8 Last Quarter
- Nov 15 New Moon
- Nov 22 First Quarter
- Nov 30 Full Moon
- Dec 7 Last Quarter
- Dec 14 New Moon
- Dec 22 First Quarter
- Dec 30 Full Moon

Events

- Nov 17 The Leonid meteor shower peaks (active Nov 14 to Nov 21)
- Dec 3 Saturn at Opposition
- Dec 4 Mercury at Superior Conjunction
- Dec 14 Annular Solar Eclipse; mag=0.964
- Dec 14 The Geminid meteor shower peaks (active Dec 07 to Dec 17)
- Dec 21 Winter Solstice
- Dec 22 The Ursid meteor shower peaks (active Dec 17 to Dec 26)
- Dec 30 Pen. Lunar Eclipse; mag=0.880

The Planets

	Nov 11	Rises	Transits	Sets
Mercury		05:37	11:02	16:25
Venus		05:28	10:53	16:18
Mars		12:41	17:38	22:35
Jupiter		20:30	03:53	11:13
Saturn		18:18	01:34	08:47
	Dec 9	Rises	Transits	Sets
Mercury		07:34	12:12	16:50
Venus		06:34	11:24	16:14
Mars		11:44	17:06	22:29
Jupiter		18:30	01:54	09:15
Saturn		16:20	23:31	06:46

Upcoming Events

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
N O V E M B E R	28	29	30	31	1 FULL MOON	2	3
	4 FULL MOON	5	6	7	8 LAST QUARTER	9 • <u>Observing at MG/Savage</u>	10 • Club Observing Night @ Mickie Gordon
	11 • General Meeting 7 pm @ GMU • <u>Observing at MG/Savage</u>	12 LAST QUARTER	13	14	15 NEW MOON	16 • <u>Observing at MG/Savage</u>	17 • <u>Observing at MG/Savage</u> • <u>Leonid Meteors peak</u>
	18 • ATM-SIG Meeting • <u>Observing at MG/Savage</u>	19	20	21	22 FIRST QUARTER	23	24
	25	26	27	28	29	30 FULL MOON (2nd)	1
D E C E M B E R	2	3 • Saturn at opposition	4	5	6	7 LAST QUARTER • <u>Observing at MG/Savage</u>	8 • Club Observing Night @ Mickie Gordon
	9 • General Meeting 7 pm @ GMU • <u>Observing at MG/Savage</u>	10	11	12	13	14 NEW MOON • <u>Observing at MG/Savage</u> • Annular solar eclipse • Geminid meteors peak	15 • <u>Observing at MG/Savage</u>
	16 • <u>Observing at MG/Savage</u> • ATM-SIG Meeting	17	18	19	20	21 • Winter solstice at 14:21 EST	22 FIRST QUARTER • Ursid meteors peak
	23	24	25	26	27	28	29
	30 FULL MOON • Penumbral lunar eclipse	31		2	3	4	5

**“To observe,
and to help others observe”**

NOVAC is a non-profit, all-volunteer organization chartered to advance amateur astronomy in Northern Virginia. Members benefit from:

Access to dark sky observing sites:

NOVAC maintains agreements that provide club members with year-round access to three observing sites away from city lights

Monthly Meetings

Monthly meetings are held at 7 p.m. on the second Sunday of each month in the Lecture Hall on the campus of George Mason University. Each meeting features a lecture on an interesting topic by a local expert. See the web page or upcoming Newsletters for a schedule of speakers.

Bimonthly Newsletter

The NOVAC Newsletter provides information specifically for NOVAC members, as well as general interest articles on such topics as observing reports, equipment reviews, upcoming events, ATM projects, and more.

Four high quality telescopes

NOVAC members may borrow one of the clubs four telescopes at no charge. Members may choose from among three 6" reflectors of different focal lengths and one 10" f/6 reflector. Also available for loan is a 7x50 binocular.

Large club library

NOVAC maintains a well stocked library in the Lecture Hall at GMU. At a monthly meeting, club members may check out books and observing guides and use them until the next meeting.

Club website

Up to date information about club events and activities is maintained on the club website at www.novac.com.

Private e-mail listserv

Members keep up with current club information by subscribing to the NOVAC e-mail list, without fear of flame wars or spam e-mails.

Public outreach opportunities

Several times each year, volunteers from NOVAC present astronomy programs to schools, churches, Scout troops, and other public groups.

Membership in the Astronomical League

Through NOVAC's membership in the Astronomical League, NOVAC members gain access to the AL's newsletter, services, and observing programs.

Discounts on astronomy magazines and books

Subscriptions to *Sky & Telescope* and *Astronomy* magazines are offered to club members at a considerable discount. Also, astronomy books purchased through the club are eligible for a 10-25% discount.

See your *Membership Guide* for more details about these benefits!

The NOVAC Newsletter is the official publication of the **Northern Virginia Astronomy Club** and is published six times per year.

The *NOVAC Newsletter* is sent to members of NOVAC as a regular membership benefit.

Membership in the Northern Virginia Astronomy Club is \$25.00 per year and is open to anyone interested in astronomy or the sciences. Additional memberships at the same address without additional copies of the newsletter are \$5.00 per person. Contact

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All notices of change of address should be sent to Joe Pierson. Please include both old and new addresses.

NOVAC does not knowingly accept advertising for products of inferior quality nor does it accept responsibility for the quality of advertised products.

NOVAC members are invited to submit articles for publication in the *NOVAC Newsletter*. The editor reserves the right to edit all materials submitted. Send article submissions to the Editor, Michael Mills, at mjmills@fpcc.net, (**The deadline for submissions is two weeks in advance of publication: December 14 for the January/February 2002 newsletter.**)

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