



EPHEMERALS - July 2006

DATE	WHEN	WHAT & WHERE
1	8:00p	Garden Stars @ Botanical Gardens
14	7:30p	Nighthike @ Northwest River Park
21	Dusk	Skywatch @ Northwest River Park
22	11:00a	BBAA SUMMER PICNIC @ Northwest River Park & July Monthly Meeting
22	Dusk	Cloverwatch @ Franklin Fairgrounds
29	Dusk	Nightwatch @ Chippokes Plantation

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LOOKING UP

It's Picnic Time! If you like fireworks, July is the month for you! Independence Day, July 4th, falls on a Tuesday this month, so if you want a "Fourth of July weekend", you'll have to take Monday off! I intend to do just that, and go visit my daughter Heidi and her husband Marty and my grandson Patrick in Goochland, a half hour west of Richmond. They have dark skies in their rural front yard, so I plan to take my telescope.

But there is another reason, a method to my madness. I hope to get a chance to visit three of our remote BBAA members. Bill Dickinson lives in Glen Allen, just a couple of blocks from where Heidi used to live. Dick Moncure lives in Mineral, about a half-hour's drive north of Goochland, and John Raymond lives in the Richmond area as well. I hope I can make the rounds.

But the REAL fireworks will come on Saturday, June 22, when we have our BBAA annual Family Picnic at the large shelter at Northwest River Park from 11:00 am to 3:00 pm. Hot dogs, burgers, and all kinds of side dishes brought by members will make it a day for feasting and fellowship. No, we won't have pyrotechnics, but there will be some "shooting stars" – like Georgie June and her water pistol.

Traditionally, at least for the past few years, there has been a water gun battle to cool members off from the hot July sun. If you want to participate, bring a water pistol and clothes that will dry quickly. It is possible to stay dry, though. Just stay in the shelter of the shelter.

Remember, there is no Thursday meeting this month. I hope to see everyone at the picnic. And don't forget to.

KEEP LOOKING UP!

George Reynolds

ROUND TABLE PLATFORM

With all of the \$1000.00 - \$2000.00 platforms out there, I was reluctant to buy a tracking platform for my 16" DOB that only cost \$500.00/600.00. Using high power and trying to let others take a peek can be a hassle with keeping the object in the eyepiece. I'm sure you all have been there, now I know why Kent needed one for his 25", f/5 DOB, by the time you climbed the ladder, the object was gone. I found the site on the net and gave a quick look. Then reading the specs, I saw it "looked" good, it had an adjustable speed control, auto-shut off at end of track, internal batteries for quick seeing or use a 12VDC battery for extended periods. I saw where I could get a platform that I could use my 16" and 12" Orion delivered for \$600.00. What would I get for my money I wondered? I was told it would take 6 weeks. Oh what the heck, I ordered one, oak natural finish, 36".

Six weeks, 2 days later my box arrives on the day the tracking # said. Well packed with foam and bubble wrap. The first thing I noticed was the beautiful wood finish and construction. From the bearings to the rails to the motor I was already pleased. Even the 4 levelers were 2" round wood feet instead of the little metal ones. I took out the transport center bolt, plugged in the included 12v power cord, dropped the reset lever and fired it up. The motor engaged, a flashing red light on controller began blinking, so I messed with the speed control and the little light would blink faster with the speed setting. I ran the platform till it hit end and sure enough, it engaged the cut off switch, stopped the motor and turned on another red light indicating end of travel. I lifted the reset lever, moved the platform to the beginning and lowered the plat-

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THE BACK BAY AMATEUR ASTRONOMER'S OBSERVER

JUNE MEETING MINUTES

The June meeting of the Back Bay Amateur Astronomers was called to order by President George Reynolds on Thursday June 1st, 2006 at 7:30 PM at the Cox Communications Campus in Chesapeake.

Members in Attendance:

Neill Alford, Dale Carey, Gerry Carver, Jay Garrard, Steve Hamilton, Chuck Jagow, Karen Jagow, George Ikonen, Ben Loyola, Matt McLaughlin, Mike Pereira, George Reynolds, Chuck Rippel, Keith Smith, Barbara Weiner, Kevin Weiner and new member Richard Wertheimer!

Secretary's Report:

Chuck Jagow, reported that we currently have 121 members and twenty one members were in need of paying their dues, most of which were at least three months past due.

Astronomical League Coordinator's Report:

The Astronomical League Coordinator, Georgie June, was not present so no AL update was provided.

Treasurer's Report:

Barb Weiner, reported that we have at least the same amount as we had last month in the kitty.

Old Business

- Chuck Jagow has taken the reins as editor for the BBAA Observer newsletter, the June issue was in the midst of finally being mailed out to the members.
- The RISK events at North Landing Elementary School is will finish up this month. The next to the last event will encompass students winning prizes for correct answers to a final quiz. The last Risk event is on June 12th.
- The Fan Mountain project is scheduling a cleaning and restoration trip up over the full moon weekend, anyone and everyone is welcome to come help.
- George presented a concise summary of the April meetings Goals workshop. There were three basic groups and each came up with suggestions for goals the club should work towards. The suggestions by group were:

Group 1. Work toward leasing or owning some land for club observing and we should form a committee to look into the matter. They also discussed improvements to the newsletter and web page.

Group 2. Set up a new web site separate from Hamptonroads.com. This group's main idea was to purchase a couple of Coronado PST telescopes for members to check out and use. They also suggested a member directory with each member listed with their area of expertise/experience. They also suggested taking astronomy to the masses, i.e. the way John Dobson did.

Group 3. This group also listed updating the web site as a goal, however their primary goal was to establish two funded groups, each with a budget allocated. One group would be for Observers and the other group would involve Public Outreach. This group also recommended a "Beginner's Corner" for novice astronomers that would meet separately once a quarter.

- Despite extending the deadline for receiving scholarship applications, no applications were received, this means that there would not be a scholarship awarded this year. Suggestions were made that the information go out sooner to teachers and students. Chuck Jagow made a motion to raise the scholarship from \$500 to \$1,000. Ben Loyola made a case for not raising the amount until the scholarship program has matured. The motion to raise the scholarship amount was tabled at this time.

New Business:

- Dale Carey volunteered to work up a set of guidelines for loaning out club equipment such as a Coronado PST.
- Chuck Jagow gave a status on applying as a beta-tester for the Skyshed POD, Personal Observatory Dome, for use up on Fan Mountain with the 12" Meade telescope for remote operation testing. Beta testers are to be selected towards the end of June.

Observer's Corner:

Dale Carey gave a short talk on the Seneca Rocks Star Party which was attended by himself and Michelle Shinn. He reported excellent skies over the weekend despite a rainy Friday. They enjoyed many visitors and provided views to over fifty people before midnight. The excellent skies continued on through the following Wednesday.

Steve Hamilton gave a synopsis of his adventures at NEAF and with Meade's new monster mount and scope.

Dale Carey provided information on the upcoming Almost Heaven Star Party held in Green Bank Virginia 23 - 26 of August.

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From Thunderstorms to Solar Storms.

When severe weather occurs, there's a world of difference for people on the ground between a storm that's overhead and one that's several kilometers away. Yet current geostationary weather satellites can be as much as 3 km off in pinpointing the true locations of storms.

A new generation of weather satellites will boost this accuracy by 2 to 4 times. The first in this new installment of NOAA's Geostationary Operational Environmental Satellites series, called GOES-N, was launched May 24 by NASA and Boeing for NOAA (National Oceanic and Atmospheric Administration). (A new polar-orbiting weather satellite, NOAA-18, was launched May 2005.)

Along with better accuracy at pinpointing storms, GOES-N sports a raft of improvements that will enhance our ability to monitor the weather—both normal, atmospheric weather and "space weather."

"Satellites eventually wear out or get low on fuel, so we've got to launch new weather satellites every few years if we want to keep up the continuous eye on weather that NOAA has maintained for more than 30 years now," says Thomas Wrublewski, liaison officer for NOAA at NASA's Goddard Space Flight Center.

Currently, GOES-N is in a "parking" orbit at 90° west longitude over the equator. For the next 6 months it will remain there while NASA thoroughly tests all its systems. If all goes well, it will someday replace one of the two active GOES satellites—either the eastern satellite (75 degrees W) or the western one (135 degrees W), depending on the condition of those satellites at the time.

Unlike all previous GOES satellites, GOES-N carries star trackers aboard to precisely determine its orientation in space. Also for the first time, the storm-tracking instruments have been mounted to an "optical bench," which is a very stable platform that resists thermal warping. These two improvements will let scientists say with 2 to 4 times greater accuracy exactly where storms are located.

Also, X-ray images of the Sun taken by GOES-N will be about twice as sharp as before. The new Solar X-ray Imager (SXI) will also automatically identify solar flares as they happen, instead of waiting for a scientist on the ground to analyze the images. Flares affect space weather, triggering geomagnetic storms that can damage communications satellites and even knock out city power grids. The improved imaging and detection of solar flares by GOES-N will allow for earlier warnings.

So for thunderstorms and solar storms alike, GOES-N will be an even sharper eye in the sky.

Find out more about GOES-N at goespoes.gsfc.nasa.gov/goes.

Also, for young people, the SciJinks Weather Laboratory at sci-jinks.nasa.gov now includes a printable booklet titled "How Do You Make a Weather Satellite?" Just click on Technology.

This article was provided by the Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration.

Patrick L. Barry



New GOES-N satellite launches, carrying an imaging radiometer, an atmospheric sounder, and a collection of other space environment monitoring instruments.

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Presentation:

The night's feature was a duplicate presentation of the one provided to the Eastern Shore Men's Retreat, which was attended by over 160 men. The presentation was very informative and well done, enjoyed by all.

In Conclusion:

- George went over the upcoming June schedule.
- The meeting was adjourned about 9:16 PM.

Chuck Jagow

SUMMER PICNIC

Hello BBAA Land! It's time for the BBAA Family Picnic! BBAA has reserved the large shelter at Northwest River Park for July 22nd from 11am-3pm!

There's plenty of seating, plenty of shade, and best of all we're close to the bathrooms and the waterpump.

BBAA will have hotdogs, hamburgers, and buns. YOU will provide the side dishes and all the fun!

Bring your family, a friend, a comfy chair, and maybe some bug spray.

Please be sure to RSVP either in the DATABASE section of the BBAA Yahoo site or you can give me a call at 547-3752.

Hope to see everyone there!
Sincerely,

Sharp Shootin' Georgie
doublestarjune@msn.com

SOAP BOX

This issue of the Observer is my last official act before traipsing off to Colorado for three weeks to help mom on the ranch. It just so happens I have enough room for four telescopes, assorted cameras and my dog Bronco. OH! Yeah, there is room for my bride as well. We will see all of you at the Summer Picnic on the 22nd!

Chuck Jagow

B B A A I N F O

The BBAA meet the first Thursday of every month. While school is in session we meet at the VA Beach TCC campus in the Pungo building. Summer meetings are usually held at the Chesapeake COX campus. The next meeting will be an informal one during the Summer Picnic at the NWRP in Chesapeake..

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What do you want to do?

BBAA INTERNET LINKS

BBAA WEB SITE

<http://groups.hamptonroads.com/bbaa/>

YAHOO GROUP

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OBSERVER INFO

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<http://www.backbayastro.org/newsletters/newsletter.shtml>

Please submit articles and items of interest no later than the 20th of July for the August issue. Please Submit all items to:

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Northeast Astronomy Forum & Telescope Show

NEAF, an acronym for Northeast Astronomy Forum is heralded as the definitive astronomy and telescope show in the nation, perhaps the world. This past April 6 & 7 marked the 15th year of the event. I drove to the lovely small town of Suffern, NY from my home in Virginia Beach, VA. The trip was almost non-eventful. That is unless you consider having your car's water pump and timing belt suddenly fail near the town of Pocomoke, MD. Well, \$1,000 later I was back on the road to Suffern.

NEAF started on Saturday, May 6, but I arrived a day early. What does one find to do on a Friday night in Suffern, NY? I decided to visit the Lafayette movie palace, a grand theater built in the early twentieth century and recently restored to its original luster. Moviegoers stood in line to see Tom Cruise in the film, Mission Impossible III. Not me, I was there just to walk into the grand movie house to gawk at the lovely theater and admire the interior



Greta & Jeff of Camera Concepts

that represented an era gone by. It's too bad I had just missed the playing of the mighty Wurlitzer theater organ. Next year I'll plan ahead.

The telescope show began at 8:30 am Saturday morning, so I rushed to the Rockland County Community College where NEAF has been held the past few years. The lines to get into the show have been long in previous years, but it was no problem this time. However, a long line did form at the Televue booth. Televue offers many of their products at sale prices at NEAF, and is the only time one will ever find them sold at a reduction. I couldn't think of any Televue products needed so instead of waiting in line I spent time visiting other vendors. It was nice to talk to people whom I generally only chat with on the telephone or email.

Of particular interest were representatives from APM Telescopes, Celestron, Coronado, High Point Scientific, Meade Instruments, MoonLite Focusers, and Pentax Optics. A show such as this gives everyone the opportunity to experience a hands-on experience with many telescope products.



Rick Fienberg of Sky & Telescope

I was pleasantly surprised to see Rob Teeter. I met Rob when he was a youngster at the 1995 Stellafane Telescope Convention. He had entered his homemade telescope for judging, and won that year. He now owns Teeter's Telescopes, and his business seems to be doing quite well. Jeff Norwood and Greta of Camera Concepts



Sue French of Sky & Telescope

offered one of the best booths at the show, and had a vast amount of products displayed. We all know Jeff and Greta, since each year they set up their booth at The East Coast Star Party in Coinjock, NC.

It was also rewarding seeing other familiar faces. Rick Fienberg
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of Sky & Telescope and I exchanged stories of our recent total solar eclipse trips to the Mediterranean. I talked to author Richard Berry about digital photography. Another highlight was meeting face to face with Sue French, Deep Sky Wonders columnist for Sky & Telescope Magazine. Sue remains one of my favorite writers, and is as delightful and interesting in person as in her writings.

About a dozen local Rockland County amateur astronomers set up solar telescopes for attendees to enjoy under mostly sunny skies. Particular grand views were had through a 6" Astrophysics refractor as well as Barlow Bob's tri-scope set up. One of Bob's telescopes was viewing the sun in white light, one looking at solar prominences and the third viewing the sun in calcium light; all mounted on a single alt-azimuth mount. The rig surely cost as much as the down payment on a new house!

Three or four hours later I was ready to depart. After the show I spent the remainder of the weekend in my favorite city, New York. In all my travels, New York City remains one of my favorite vacation spots.

Although this year's Northeast Telescope Forum was not as well attended as previous years it was still a delight and you can count on the fact I'll be there again next year.

Kent Blackwell

Indian Lakes Field Day

I woke up at 6:00 a.m. Friday, June 9, to the sound of a pouring rain outside. "Oh, no!", I thought, "what about Field Day at Indian Lakes Elementary School?" I rolled out of bed and turned on The Weather Channel, to learn that the weather-guessers predicted it would be a partly cloudy, warm day, and that the rain would end early, then come back later in the evening.

As I drank my morning coffee the rain quit and the sun came out. I gathered my stuff together and headed to the school, where inflatable play features were being set up. I met Matt McLaughlin there and we set up our telescopes, his Orion 4.5" StarBlast, and my 10" Dob, equipped with white-light solar filters on the sidewalk outside the front entrance of the school. Shortly after 9:00 a.m. our first class of kindergartners started lining up at the scopes.

The sun cooperated most of the day, only occasionally disappearing behind quickly-moving clouds. Sunspot groups 892 and 893 (per Spaceweather.com) happily occupied the center of the sun's disc, prominent in our telescope eyepieces. All day Matt and I explained what sunspots are, and that the largest one in the eyepiece was "as big as four or five Planet Earths". Some kids oohed and ahed, while others ho-hummed. Most of the adults, teachers and parents, who took a look were duly impressed.

Throughout the day, most of the classes, K through 5, looked through our scopes. Even some of the other exhibitors, like the

volunteer paramedics and the inflatable playground guy took their turns, and came away saying, "that's the first time I have seen sun-spots". Some of the students remembered us from last year, and a couple of them even remembered when Matt, Rick Bish, and I visited their science club several years ago.

By 2:45 p.m., as the field day was winding down, Matt and I had a good "farmer's tan", and started packing up. The teachers and parents and many of the students thanked us for coming. As the clouds started to roll in, we were thankful that they had stayed away most of the day, to give us a successful day at Indian Lakes.

George Reynolds

FINAL 2006 RISK SESSION

The last two RISK sessions of the 2005-2006 school year were held June 5 and 12 at North Landing Elementary School from 1:15 to 2 pm each of those days. Educator/sponsor Becky Wallace expressed her pleasure at having the BBAA perform this outreach for the students.

The NLES mascot is the Ram, so "RISK" stands for "Rams Interested in Seeking Knowledge", an enrichment program for students to dig into an area of interest. This session consisted of eight eager students in grades 3 through 5. Throughout the past semester, BBAAers Tom Pearson, Matt McLaughlin, Kevin Weiner, and George Reynolds have showed slides and videos, drawn pictures, and done a "Planet Walk" with the kids to acquaint them with our Solar System and "Our Place in Space".

On June 5 Matt and George conducted a quizdown on the Solar System, testing the students' knowledge. The first place prize, consisting of a "Stargazing Kit" went to Brad. Second place went to Anna, who chose a book of beautiful Hubble Space Telescope pictures, and third prize was awarded to Matthew, who got a nice star chart book by Ian Redpath.

The final meeting, on June 12, was a "tour through our home galaxy", the Milky Way. Matt had the students make a simple "star wheel" to locate the circumpolar constellations. Then Kevin projected Starry Night Pro's view of the night sky on the ceiling while we explained the constellations and some of their mythology to the students. Our solar system's location in the galaxy was briefly presented.

BBAA members participated in two separate RISK sessions this school year, one during the Fall 2005 semester and one in Spring 2006. Each group of inquisitive students enjoyed learning about the Sun, the Moon, the planets, and the size and scale of the solar system, "our place in space". They gave us a thank you note and Becky told us we were one of the few outside groups who were there for every RISK session,. She thanked us for our faithfulness. Many thanks go to Becky Wallace at NLES and Tom Pearson, who coordinated the BBAA role in this astronomy outreach.

George Reynolds

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form and it started the cycle all over.

Because the surface of the platform is a smooth finish I applied three round non skid circles I cut from that stair tread stuff you have seen around as recommended on the top of the platform, (3" circles work great). So far I'm a happy camper.

I set my 12" Orion DOB on it to see how to reset and time the tracking. Then a problem, with the weight on the platform it made one of the rails scrap the track. Dang, always has to be something, I emailed for help but Brian was on vacation for a week. I looked to see if there was an adjustment, but no, the rail would have to be moved over, so I packed it up and sent it back. Brian emailed me with his apologies and in one week had it back in the mail with reimbursement for shipping. 5 days later I received the fixed platform.

This time I unpacked and immediately put the 12" on it, the 16" I will try later. I set it on the driveway, leveled and pointed north with the built on compass all as instructed. I placed a ¼ moon in the TV 5mm eyepiece giving me 300X. I used the 4 levelers and motor speed to tweak the guiding, now I'm happy! I was able to keep a single crater in the FOV for 4 ½ min. Next, I put a TV 2.5 barlow in, (giving 750X) and started tweaking again. Took about 10 minutes of "playing" with the speed control and levelers to get the now high power picture to give me a 90 sec. view of the one small crater in the FOV. I gave a quick look at Jupiter, re-adjusted the speed control just a little and kept the FOV at 300x in the eyepiece for 3 minutes. Using my 13 Nag, I backed up to the best view at 115x and I could have let a dozen people take a look without having to move the scope. For guessing at north and leveling with a small bubble level, I am completely happy with the way this platform performed. Not only does it look good, it is easy to set up and resetting was a snap. Just lift a little and it slides back to the beginning.

Now all I have to do is figure out how to use my Object locator with the platform. But, that will be for another night. With a little more patience and adjusting I'm sure it will track longer. Overall, I give the looks a 10, performance a 9.5 and ease of use at a 10. Put the center bolt back in and transport is easy with the cut out handle that is smooth to the touch. Can't wait to try it on the 16", that will be another story.

Dale Carey

THE OBSERVER'S CORNER

SKYWATCH 6/16/06 I had a good Skywatch. No sooner had the sun dropped behind the trees than I was deluged with a line of sky-gawking guests. I tried to use Jupiter to align my finder but as soon as I pointed the scope, a line formed. Then someone announced that Mercury was visible at the top of the trees, and I swung the scope over to catch a glimpse of the shy messenger. The line just got longer. Then I mentioned that we could swing up to Saturn and you might have thought I was giving away Naglers. <g> Mars was also a crowd pleaser, just because well, it's MARS! Then back to Jupiter and more amazed gasps. It was still twilight when I put the scope on M13; so much so that I wouldn't show anyone ... I couldn't bear to think that someone's first view of the great globular might be such an unremarkable blob. We waited for dark (which never really comes to NWRP anymore, but we got a reasonable facsimile) and then did the standard tour of show-pieces, some over and over again as new silhouettes arrived at the scope. M3, M13, M92, Albireo, Alcor and Mizar, M104, M81 and 82, the Virgo cluster, M57, M27, M5, M17, etc. etc. I decided to try Kent's challenge and dialed up NGC 5792. In the 18, it looked much as Kent described it in the 10-inch, a tribute both to Mark's sky and

Kent's observing skill. Overwhelmed by a 9th magnitude star, the galaxy is a barely detectable elongated smudge of light. In fact a few couldn't see it at all. I saw it, and Georgie (who I think has the ability to see a good deal fainter than most of us) saw it right away.

It was a great turnout, I counted more than a dozen members , a half dozen potential members, and a good part of Kenny Broun's astronomy class. I think Kenny was there too ... somebody with bugs in his teeth that sounded like Kenny anyway. There were also several guests that just stopped by out of curiosity. As often happens, the session just flies by, and after a string of guests and gawkers I realize that it's over and once again I never made it more than a few steps from my scope. I did get to see the entire veil nebula complex in a single FOV ... that was cool, thanks Mark. I never got down to see Dale's new tracking platform, or to talk with Robert Harris (glad you had a successful night finding Glob's), but I did see some old friends wander by ... was that really Lelane Arneson? I thought she dropped off the planet. If you didn't make Skywatch, we missed you. Hope to see you next month.

Ted Forte

CLOVERWATCH 6/17/06 We had a small, but fun group at Southampton County Fairgrounds last night for Cloverwatch. Cliff and Taylor were there, naturally, as well as Wendy Walker, Stu Beaber, and myself. Bryan and his dad Steve of the 4-H Night Eyes Astronomy Club came and spent some time gazing at the stars through our telescopes and naked-eye. They are learning the stars quite well.

Though the day had been promising, the night was not up to the high standards we have come to expect at Cloverwatch. The horizons are very good, but last night was the LEAST dark I have ever seen it there. ("It was the worst I've ever seen it.") :-)

The sky was very light in three directions -- a lot of skyglow from Franklin to the NE, more than usual dome of glow from the SE, in the direction of Hercules (the chemical plant, not the constellation), and a small dome of glow from the SW in the direction of Courtland. I have never seen that light dome before. There was a slight haze which worsened as the night went past the witching hour.

We had a good time, though. Since it was not real good for star-hopping, I gave my IntelliScope's computer object locator (COL) a workout. I seldom use it, and as a result have less confidence in it than, say, Cliff, who uses his a lot. At first I had trouble with the Altitude sensor sticking, but I reset the controller and it worked fine the rest of the night.

I found M57, M51/NGC5195, M5, M53, M63, M65/66, and M94 with it, as well as Albireo, M81/82, M4, and a few other objects. I tried for M101 and M106 but the sky was not dark enough to make those faint galaxies stand out. (M51 was about the worst I have ever seen it.) I saw some other neat objects in Cliff's scope, like M3, M57 (again), and M101 - almost.





I spent some time talking to Stu and watching the process of him imaging M16 the Eagle Nebula with three filters -- OIII, H-alpha and H-beta. I can hardly wait to see the processed result.

Wendy was her usual effervescent self, and had a good time despite the limitations of her 4.5 tripod-mounted Meade reflecting scope. The alt-az mount is very touchy, and her finder is hard to adjust perfectly. We tried a couple of my eyepieces in her scope to see how they would do.

Wendy and Cliff left around midnight, while Stu and I stayed. I packed it in about 0200, as did Stu. He spent the night there in his trailer, while I drove home to Virginia Beach. It was a fun night, if not as dark and productive as we are used to at Franklin.

George Reynolds

JULY 2006

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 GARDEN STARS NBG
2	3 First Qtr 	4 INDEPENDENCE DAY	5	6	7	8
9	10 Full Moon 	11	12	13	14 NIGHT HIKE NWRP	15
16	17 Last Qtr 	18	19	20 OBSERVER SUBMIS- SION DEADLINE	21 SKYWATCH NWRP	22 BBAA PICNIC & CLOVERWATCH
23	24	25 New Moon 	26	27	28	29 NIGHTWATCH CHIPPOKES
30	31					